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NASA Space Geodesy Program— GSFC Data Analysis—1992

Final Report of the Crustal Dynamics Project VLBI Geodetic Results 1979-91

J.W. Ryan, C. Ma,
and D.S. Caprette

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**Final Report of the Crustal Dynamics Project
VLBI Geodetic Results 1979–91**

J.W. Ryan and C. Ma
*NASA Goddard Space Flight Center
Greenbelt, Maryland*

D.S. Caprette
*Hughes STX Corporation
Lanham, Maryland*



National Aeronautics and
Space Administration

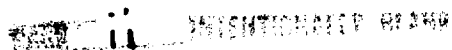
Goddard Space Flight Center
Greenbelt, Maryland 20771

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Table of Contents

<p>I. INTRODUCTION 1</p> <p>II. DATA 2</p> <p style="padding-left: 20px;">A. Instrumentation 2</p> <p style="padding-left: 20px;">B. Observing Programs 2</p> <p style="padding-left: 20px;">C. Phase Delay Observations 4</p> <p>III. DATA ANALYSIS METHODS 4</p> <p style="padding-left: 20px;">A. Processing and Data Handling 4</p> <p style="padding-left: 20px;">B. Models 5</p> <p style="padding-left: 20px;">C. The GLOBL Analysis System 5</p> <p style="padding-left: 20px;">D. Parametrization of the Site Troposphere and Clock 6</p> <p style="padding-left: 20px;">E. Earth Orientation Parameters 6</p> <p style="padding-left: 20px;">F. VLBI Variables 6</p> <p>IV. DATA ANALYSIS RESULTS 6</p> <p style="padding-left: 20px;">A. Solution GLB867 6</p> <p style="padding-left: 20px;">B. Solution GLB868 7</p> <p style="padding-left: 20px;">C. Results 8</p> <p style="padding-left: 40px;">1. Station Coordinates and Velocities 8</p> <p style="padding-left: 40px;">2. Baseline Evolution 14</p> <p style="padding-left: 40px;">3. Earth Orientation Parameters 15</p> <p style="padding-left: 20px;">D. Formal Errors 16</p> <p>V. DIFFERENCES WITH PAST RESULTS . 16</p> <p>VI. QUALITY OF RESULTS 17</p> <p style="padding-left: 20px;">A. Trends in Quality Improvement 17</p> <p style="padding-left: 40px;">1. Post-fit Delay Residuals 17</p> <p style="padding-left: 40px;">2. Baseline Length Repeatability and Errors in Baseline Length 20</p> <p style="padding-left: 20px;">B. Scaling of Baseline Repeatability with Baseline Length 22</p> <p style="padding-left: 20px;">C. An Anomaly -- the Motions of Onsala and Wettzell 24</p> <p>VII. REFERENCES 31</p> <p>TABLES AND FIGURES</p> <p>1.0 Stations and Sites 1.1</p> <p style="padding-left: 20px;">1.1 VLBI Observing Stations 1.2</p> <p style="padding-left: 20px;">1.2 VLBI Site Locations 1.4</p> <p>2.0 Summary of Experiments by Database and Site 2.1</p> <p style="padding-left: 20px;">2.1 Summary of Experiments 2.2</p> <p>3.0 Source Coordinates 3.1</p>	<p style="padding-left: 20px;">3.1 Source Coordinates from GLB867 3.2</p> <p>4.0 Site Positions and Velocities from Solution GLB867 4.1</p> <p style="padding-left: 20px;">4.1 Geocentric Cartesian Site Coordinates and Velocities 4.2</p> <p style="padding-left: 20px;">4.2 Geocentric Cartesian Coordinates for HRAS 085 from GLB867 4.17</p> <p style="padding-left: 20px;">4.3 Site Velocities in Topocentric Reference Frames 4.19</p> <p>5.0 VLBI Site Positions by Year from GLB867 5.1</p> <p style="padding-left: 20px;">5.1 Site Positions at January 1.5, 1979 5.2</p> <p style="padding-left: 20px;">5.2 Site Positions at January 1.5, 1980 5.4</p> <p style="padding-left: 20px;">5.3 Site Positions at January 1.5, 1981 5.6</p> <p style="padding-left: 20px;">5.4 Site Positions at January 1.5, 1982 5.8</p> <p style="padding-left: 20px;">5.5 Site Positions at January 1.5, 1983 5.10</p> <p style="padding-left: 20px;">5.6 Site Positions at January 1.5, 1984 5.12</p> <p style="padding-left: 20px;">5.7 Site Positions at January 1.5, 1985 5.14</p> <p style="padding-left: 20px;">5.8 Site Positions at January 1.5, 1986 5.16</p> <p style="padding-left: 20px;">5.9 Site Positions at January 1.5, 1987 5.18</p> <p style="padding-left: 20px;">5.10 Site Positions at January 1.5, 1988 ... 5.20</p> <p style="padding-left: 20px;">5.11 Site Positions at January 1.5, 1989 ... 5.22</p> <p style="padding-left: 20px;">5.12 Site Positions at January 1.5, 1990 ... 5.24</p> <p style="padding-left: 20px;">5.13 Site Positions at January 1.5, 1991 ... 5.26</p> <p style="padding-left: 20px;">5.14 Site Positions at January 1.5, 1992 ... 5.28</p> <p style="padding-left: 20px;">5.15 Site Positions at January 1.5, 1993 ... 5.30</p> <p style="padding-left: 20px;">5.16 Site Positions at January 1.5, 1994 ... 5.32</p> <p style="padding-left: 20px;">5.17 Site Positions at January 1.5, 1995 ... 5.34</p> <p>6.0 Baseline Statistics Summaries 6.1</p> <p style="padding-left: 20px;">6.1 Length Statistical Summary, Mean 6.2</p> <p style="padding-left: 20px;">6.2 Length Statistical Summary, Rate of Change 6.17</p> <p style="padding-left: 20px;">6.3 Transverse Statistical Summary 6.23</p> <p style="padding-left: 20px;">6.4 Vertical Statistical Summary 6.38</p> <p>7.0 Baseline Evolution from GLB868 7.1</p> <p style="padding-left: 20px;">Figures</p> <p style="padding-left: 40px;">7.2 ALGOPARK to GILCREEK 7.2</p> <p style="padding-left: 40px;">7.3 ALGOPARK to MOJAVE12 7.3</p> <p style="padding-left: 40px;">7.4 ALGOPARK to PENTICTN 7.4</p> <p style="padding-left: 40px;">7.5 ALGOPARK to WESTFORD 7.5</p> <p style="padding-left: 40px;">7.6 BLKBUTTE to HRAS 085 7.6</p> <p style="padding-left: 40px;">7.7 BLKBUTTE to MOJAVE12 7.7</p> <p style="padding-left: 40px;">7.8 BLKBUTTE to VNDNBERG 7.8</p> <p style="padding-left: 40px;">7.9 DEADMANL to MOJAVE12 7.9</p> <p style="padding-left: 40px;">7.10 DEADMANL to VNDNBERG 7.10</p> <p style="padding-left: 40px;">7.11 DSS45 to GILCREEK 7.11</p>
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7.12 DSS45 to HOBART26	7.12	7.65 GORF7102 to MOJAVE12	7.65
7.13 DSS45 to KASHIMA	7.13	7.66 GORF7102 to RICHMOND	7.66
7.14 DSS45 to KAUAI	7.14	7.67 GORF7102 to WESTFORD	7.67
7.15 DSS45 to SESHAN25	7.15	7.68 HARTRAO to HRAS 085	7.68
7.16 DSS65 to MEDICINA	7.16	7.69 HARTRAO to MEDICINA	7.69
7.17 DSS65 to NOTO	7.17	7.70 HARTRAO to ONSALA60	7.70
7.18 DSS65 to ONSALA60	7.18	7.71 HARTRAO to RICHMOND	7.71
7.19 DSS65 to WETTZELL	7.19	7.72 HARTRAO to WESTFORD	7.72
7.20 EFLSBERG to HAYSTACK	7.20	7.73 HARTRAO to WETTZELL	7.73
7.21 EFLSBERG to HRAS 085	7.21	7.74 HATCREEK to HRAS 085	7.74
7.22 EFLSBERG to ONSALA60	7.22	7.75 HATCREEK to KASHIMA	7.75
7.23 ELY to HATCREEK	7.23	7.76 HATCREEK to KAUAI	7.76
7.24 ELY to HRAS 085	7.24	7.77 HATCREEK to MOJAVE12	7.77
7.25 ELY to MOJAVE12	7.25	7.78 HATCREEK to MON PEAK	7.78
7.26 FLAGSTAF to HATCREEK	7.26	7.79 HATCREEK to OVRO 130	7.79
7.27 FLAGSTAF to HRAS 085	7.27	7.80 HATCREEK to PLATTVIL	7.80
7.28 FLAGSTAF to MOJAVE12	7.28	7.81 HATCREEK to PRESIDIO	7.81
7.29 FORTORDS to GILCREEK	7.29	7.82 HATCREEK to PT REYES	7.82
7.30 FORTORDS to MOJAVE12	7.30	7.83 HATCREEK to QUINCY	7.83
7.31 FORT ORD to HATCREEK	7.31	7.84 HATCREEK to VERNAL	7.84
7.32 FORT ORD to MOJAVE12	7.32	7.85 HATCREEK to VNDNBERG	7.85
7.33 FORT ORD to OVRO 130	7.33	7.86 HATCREEK to WESTFORD	7.86
7.34 FORT ORD to VNDNBERG	7.34	7.87 HATCREEK to YUMA	7.87
7.35 GILCREEK to HATCREEK	7.35	7.88 HAYSTACK to HRAS 085	7.88
7.36 GILCREEK to HAYSTACK	7.36	7.89 HAYSTACK to MOJAVE12	7.89
7.37 GILCREEK to HOBART26	7.37	7.90 HAYSTACK to NRAO 140	7.90
7.38 GILCREEK to HRAS 085	7.38	7.91 HAYSTACK to ONSALA60	7.91
7.39 GILCREEK to KASHIMA	7.39	7.92 HAYSTACK to OVRO 130	7.92
7.40 GILCREEK to KAUAI	7.40	7.93 HAYSTACK to WESTFORD	7.93
7.41 GILCREEK to KODIAK	7.41	7.94 HAYSTACK to WETTZELL	7.94
7.42 GILCREEK to KWAJAL26	7.42	7.95 HOBART26 to KAUAI	7.95
7.43 GILCREEK to MOJAVE12	7.43	7.96 HRAS 085 to KASHIMA	7.96
7.44 GILCREEK to NOME	7.44	7.97 HRAS 085 to MOJAVE12	7.97
7.45 GILCREEK to NRAO85 3	7.45	7.98 HRAS 085 to MON PEAK	7.98
7.46 GILCREEK to ONSALA60	7.46	7.99 HRAS 085 to NRAO 140	7.99
7.47 GILCREEK to OVRO 130	7.47	7.100 HRAS 085 to ONSALA60	7.100
7.48 GILCREEK to PENTICTN	7.48	7.101 HRAS 085 to OVRO 130	7.101
7.49 GILCREEK to PIETOWN	7.49	7.102 HRAS 085 to PLATTVIL	7.102
7.50 GILCREEK to PLATTVIL	7.50	7.103 HRAS 085 to QUINCY	7.103
7.51 GILCREEK to PRESIDIO	7.51	7.104 HRAS 085 to RICHMOND	7.104
7.52 GILCREEK to PT REYES	7.52	7.105 HRAS 085 to VERNAL	7.105
7.53 GILCREEK to RICHMOND	7.53	7.106 HRAS 085 to VNDNBERG	7.106
7.54 GILCREEK to SESHAN25	7.54	7.107 HRAS 085 to WESTFORD	7.107
7.55 GILCREEK to SNDPOINT	7.55	7.108 HRAS 085 to WETTZELL	7.108
7.56 GILCREEK to SOURDOGH	7.56	7.109 HRAS 085 to YUMA	7.109
7.57 GILCREEK to VNDNBERG	7.57	7.110 JPL MV1 to MOJAVE12	7.110
7.58 GILCREEK to WESTFORD	7.58	7.111 JPL MV1 to OVRO 130	7.111
7.59 GILCREEK to WETTZELL	7.59	7.112 JPL MV1 to PBLOSSOM	7.112
7.60 GILCREEK to WHTHORSE	7.60	7.113 JPL MV1 to PINFLATS	7.113
7.61 GILCREEK to YAKATAGA	7.61	7.114 JPL MV1 to VNDNBERG	7.114
7.62 GOLDVENU to MOJAVE12	7.62	7.115 KASHIMA to KAUAI	7.115
7.63 GOLDVENU to ONSALA60	7.63	7.116 KASHIMA to KWAJAL26	7.116
7.64 GOLDVENU to OVRO 130	7.64	7.117 KASHIMA to MOJAVE12	7.117

7.118 KASHIMA to ONSALA60	7.118
7.119 KASHIMA to RICHMOND	7.119
7.120 KASHIMA to SESHAN25	7.120
7.121 KASHIMA to TSUKUBA	7.121
7.122 KASHIMA to VNDNBERG	7.122
7.123 KASHIMA to WESTFORD	7.123
7.124 KASHIMA to WETTZELL	7.124
7.125 KAUAI to KWAJAL26	7.125
7.126 KAUAI to MOJAVE12	7.126
7.127 KAUAI to NRAO85 3	7.127
7.128 KAUAI to RICHMOND	7.128
7.129 KAUAI to SESHAN25	7.129
7.130 KAUAI to VNDNBERG	7.130
7.131 KODIAK to MOJAVE12	7.131
7.132 KWAJAL26 to MOJAVE12	7.132
7.133 KWAJAL26 to VNDNBERG	7.133
7.134 MARPOINT to RICHMOND	7.134
7.135 MARPOINT to WESTFORD	7.135
7.136 MEDICINA to ONSALA60	7.136
7.137 MEDICINA to WETTZELL	7.137
7.138 MOJAVE12 to MON PEAK	7.138
7.139 MOJAVE12 to NOTO	7.139
7.140 MOJAVE12 to NRAO85 3	7.140
7.141 MOJAVE12 to ONSALA60	7.141
7.142 MOJAVE12 to OVRO 130	7.142
7.143 MOJAVE12 to PBLOSSOM	7.143
7.144 MOJAVE12 to PIETOWN	7.144
7.145 MOJAVE12 to PINFLATS	7.145
7.146 MOJAVE12 to PLATTVIL	7.146
7.147 MOJAVE12 to PRESIDIO	7.147
7.148 MOJAVE12 to PT REYES	7.148
7.149 MOJAVE12 to PVERDES	7.149
7.150 MOJAVE12 to QUINCY	7.150
7.151 MOJAVE12 to RICHMOND	7.151
7.152 MOJAVE12 to SANPAULA	7.152
7.153 MOJAVE12 to SNDPOINT	7.153
7.154 MOJAVE12 to VERNAL	7.154
7.155 MOJAVE12 to VNDNBERG	7.155
7.156 MOJAVE12 to WESTFORD	7.156
7.157 MOJAVE12 to WETTZELL	7.157
7.158 MOJAVE12 to YAKATAGA	7.158
7.159 MOJAVE12 to YUMA	7.159
7.160 MON PEAK to OVRO 130	7.160
7.161 MON PEAK to QUINCY	7.161
7.162 MON PEAK to VNDNBERG	7.162
7.163 MON PEAK to YUMA	7.163
7.164 NOME to VNDNBERG	7.164
7.165 NOTO to ONSALA60	7.165
7.166 NOTO to RICHMOND	7.166
7.167 NOTO to WESTFORD	7.167
7.168 NOTO to WETTZELL	7.168
7.169 NRAO85 3 to RICHMOND	7.169
7.170 NRAO85 3 to WESTFORD	7.170

7.171 NRAO 140 to OVRO 130	7.171
7.172 NRAO 140 to WESTFORD	7.172
7.173 ONSALA60 to OVRO 130	7.173
7.174 ONSALA60 to RICHMOND	7.174
7.175 ONSALA60 to WESTFORD	7.175
7.176 ONSALA60 to WETTZELL	7.176
7.177 OVRO 130 to PBLOSSOM	7.177
7.178 OVRO 130 to PINFLATS	7.178
7.179 OVRO 130 to PLATTVIL	7.179
7.180 OVRO 130 to PRESIDIO	7.180
7.181 OVRO 130 to PT REYES	7.181
7.182 OVRO 130 to QUINCY	7.182
7.183 OVRO 130 to VNDNBERG	7.183
7.184 OVRO 130 to WESTFORD	7.184
7.185 OVRO 130 to WETTZELL	7.185
7.186 OVRO 130 to YUMA	7.186
7.187 PBLOSSOM to VNDNBERG	7.187
7.188 PIETOWN to WESTFORD	7.188
7.189 PINFLATS to VNDNBERG	7.189
7.190 PINFLATS to YUMA	7.190
7.191 PLATTVIL to WESTFORD	7.191
7.192 PRESIDIO to VNDNBERG	7.192
7.193 PT REYES to VNDNBERG	7.193
7.194 PVERDES to VNDNBERG	7.194
7.195 QUINCY to VNDNBERG	7.195
7.196 RICHMOND to WESTFORD	7.196
7.197 RICHMOND to WETTZELL	7.197
7.198 SANPAULA to VNDNBERG	7.198
7.199 SOURDOGH to VNDNBERG	7.199
7.200 VNDNBERG to YUMA	7.200
7.201 WESTFORD to WETTZELL	7.201

Tables

7.202 ALGOPARK to HRAS 085	7.202
7.203 ALGOPARK to KAUAI	7.202
7.204 ALGOPARK to KODIAK	7.202
7.205 ALGOPARK to MATERA	7.202
7.206 ALGOPARK to NRAO85 3	7.202
7.207 ALGOPARK to RICHMOND	7.203
7.208 ALGOPARK to SNDPOINT	7.203
7.209 ALGOPARK to VICTORIA	7.203
7.210 ALGOPARK to WETTZELL	7.203
7.211 ALGOPARK to YELLOWKN	7.203
7.212 ALGOPARK to YLOW7296	7.204
7.213 AUSTINTX to HRAS 085	7.204
7.214 AUSTINTX to RICHMOND	7.204
7.215 AUSTINTX to WESTFORD	7.204
7.216 BERMUDA to MARPOINT	7.204
7.217 BERMUDA to RICHMOND	7.204
7.218 BERMUDA to WESTFORD	7.204
7.219 BLKBUTTE to ELY	7.204
7.220 BLKBUTTE to HATCREEK	7.205
7.221 BLKBUTTE to OCOTILLO	7.205

7.222	BLKBUTTE to OVRO 130	7.205	7.275	ELY to VNDNBERG	7.212
7.223	BLKBUTTE to PRESIDIO	7.205	7.276	ELY to WESTFORD	7.212
7.224	BLKBUTTE to PT REYES	7.205	7.277	ELY to YUMA	7.212
7.225	BLOOMIND to HRAS 085	7.205	7.278	FD-VLBA to HRAS 085	7.212
7.226	BLOOMIND to WESTFORD	7.205	7.279	FLAGSTAF to VERNAL	7.212
7.227	BREST to MOJAVE12	7.205	7.280	FLAGSTAF to WESTFORD	7.213
7.228	BREST to NOTO	7.206	7.281	FORTORDS to HATCREEK	7.213
7.229	BREST to ONSALA60	7.206	7.282	FORTORDS to HAYSTACK	7.213
7.230	BREST to RICHMOND	7.206	7.283	FORTORDS to OVRO 130	7.213
7.231	BREST to WESTFORD	7.206	7.284	FORTORDS to PRESIDIO	7.213
7.232	BREST to WETTZELL	7.206	7.285	FORTORDS to PT REYES	7.213
7.233	CARNUSTY to MOJAVE12	7.206	7.286	FORTORDS to QUINCY	7.214
7.234	CARNUSTY to RICHMOND	7.206	7.287	FORTORDS to VNDNBERG	7.214
7.235	CARNUSTY to WESTFORD	7.206	7.288	FORTORDS to WESTFORD	7.214
7.236	CARNUSTY to WETTZELL	7.207	7.289	FORTORDS to YLOW7296	7.214
7.237	CARROLGA to HRAS 085	7.207	7.290	FORT ORD to GILCREEK	7.214
7.238	CARROLGA to RICHMOND	7.207	7.291	FORT ORD to JPL MV1	7.215
7.239	CARROLGA to WESTFORD	7.207	7.292	FORT ORD to MON PEAK	7.215
7.240	CHLBOLTN to HAYSTACK	7.207	7.293	FORT ORD to PT REYES	7.215
7.241	CHLBOLTN to HRAS 085	7.207	7.294	FTD 7900 to HRAS 085	7.215
7.242	CHLBOLTN to ONSALA60	7.208	7.295	FTD 7900 to MOJAVE12	7.215
7.243	CHLBOLTN to OVRO 130	7.208	7.296	FTD 7900 to PIETOWN	7.215
7.244	DEADMANL to JPL MV1	7.208	7.297	FTD 7900 to WESTFORD	7.215
7.245	DSS15 to GILCREEK	7.208	7.298	GILCREEK to HALEAKAL	7.215
7.246	DSS15 to GOLDFENU	7.208	7.299	GILCREEK to HARTRAO	7.216
7.247	DSS15 to HAYSTACK	7.208	7.300	GILCREEK to KASHIM34	7.216
7.248	DSS15 to MOJAVE12	7.208	7.301	GILCREEK to LA-VLBA	7.216
7.249	DSS15 to MOJ 7288	7.209	7.302	GILCREEK to MARCUS	7.216
7.250	DSS15 to OVRO 130	7.209	7.303	GILCREEK to MARPOINT	7.217
7.251	DSS15 to OVR 7853	7.209	7.304	GILCREEK to MATERA	7.217
7.252	DSS15 to YAKATAGA	7.209	7.305	GILCREEK to MEDICINA	7.217
7.253	DSS45 to HARTRAO	7.209	7.306	GILCREEK to MIZUSGSI	7.217
7.254	DSS45 to KASHIM34	7.209	7.307	GILCREEK to NOBEY 6M	7.218
7.255	DSS45 to KWAJAL26	7.209	7.308	GILCREEK to NOTO	7.218
7.256	DSS45 to MEDICINA	7.209	7.309	GILCREEK to NRAO 140	7.218
7.257	DSS45 to MOJAVE12	7.210	7.310	GILCREEK to PINFLATS	7.218
7.258	DSS45 to SANTIA12	7.210	7.311	GILCREEK to PVERDES	7.218
7.259	DSS45 to WETTZELL	7.210	7.312	GILCREEK to QUINCY	7.218
7.260	DSS65 to EFLSBERG	7.210	7.313	GILCREEK to SANPAULA	7.218
7.261	DSS65 to HRAS 085	7.210	7.314	GILCREEK to SANTIA12	7.219
7.262	DSS65 to MATERA	7.210	7.315	GILCREEK to SEATTLE1	7.219
7.263	DSS65 to MOJAVE12	7.210	7.316	GILCREEK to SEST	7.219
7.264	DSS65 to RICHMOND	7.210	7.317	GILCREEK to SHANGHAI	7.219
7.265	DSS65 to WESTFORD	7.211	7.318	GILCREEK to TRYSILNO	7.219
7.266	EFLSBERG to MATERA	7.211	7.319	GILCREEK to VICTORIA	7.219
7.267	EFLSBERG to MEDICINA	7.211	7.320	GILCREEK to YELLOWKN	7.219
7.268	EFLSBERG to NRAO 140	7.211	7.321	GILCREEK to YLOW7296	7.220
7.269	EFLSBERG to OVRO 130	7.211	7.322	GOLDFENU to HRAS 085	7.220
7.270	EFLSBERG to ROBLED32	7.211	7.323	GOLDFENU to KASHIM34	7.220
7.271	EFLSBERG to WESTFORD	7.211	7.324	GOLDFENU to KASHIMA	7.220
7.272	EFLSBERG to WETTZELL	7.211	7.325	GOLDFENU to MEDICINA	7.220
7.273	ELY to OVRO 130	7.212	7.326	GOLDFENU to MOJ 7288	7.220
7.274	ELY to PLATTVIL	7.212	7.327	GOLDFENU to NRAO 140	7.220

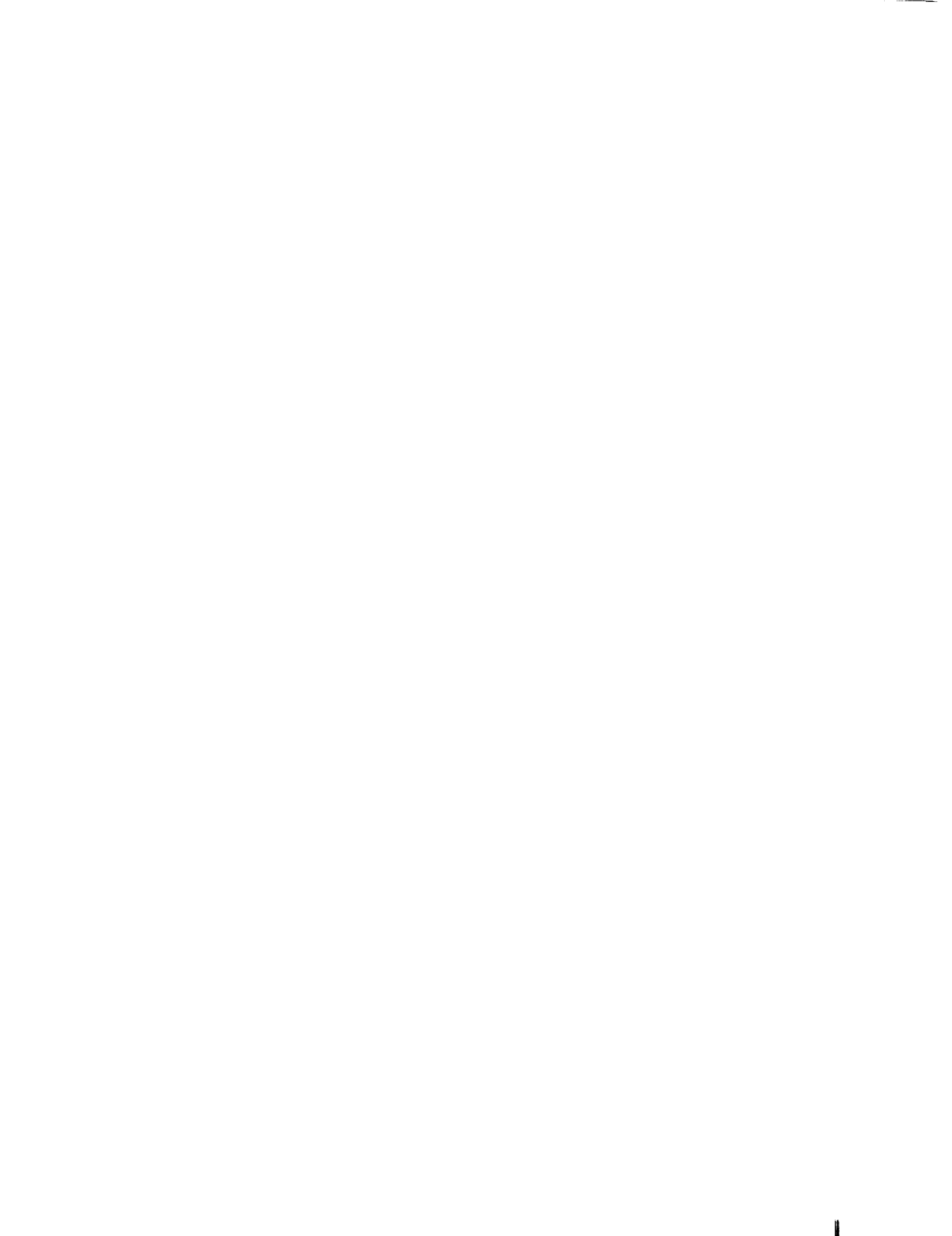
7.328	GOLDVENU to OVR 7853	7.220	7.381	HOBART26 to SANTIA12	7.229
7.329	GOLDVENU to PRESIDIO	7.221	7.382	HOBART26 to SESHAN25	7.229
7.330	GOLDVENU to PT REYES	7.221	7.383	HOBART26 to SEST	7.229
7.331	GOLDVENU to QUINCY	7.221	7.384	HOBART26 to WESTFORD	7.229
7.332	GOLDVENU to VNDNBERG	7.221	7.385	HOBART26 to WETTZELL	7.229
7.333	GORF7102 to HRAS 085	7.221	7.386	HOHENFRG to MOJAVE12	7.230
7.334	GORF7102 to MARPOINT	7.221	7.387	HOHENFRG to NOTO	7.230
7.335	GORF7102 to SANTIA12	7.221	7.388	HOHENFRG to RICHMOND	7.230
7.336	GORF7102 to WETTZELL	7.221	7.389	HOHENFRG to WESTFORD	7.230
7.337	GRASSE to MOJAVE12	7.221	7.390	HOHENFRG to WETTZELL	7.230
7.338	GRASSE to NOTO	7.222	7.391	HRAS 085 to JPL MV1	7.230
7.339	GRASSE to RICHMOND	7.222	7.392	HRAS 085 to KODIAK	7.230
7.340	GRASSE to WESTFORD	7.222	7.393	HRAS 085 to LEONRDOK	7.231
7.341	GRASSE to WETTZELL	7.222	7.394	HRAS 085 to MAMMOTHL	7.231
7.342	HALEAKAL to KAUAI	7.222	7.395	HRAS 085 to MARPOINT	7.231
7.343	HALEAKAL to MOJAVE12	7.222	7.396	HRAS 085 to MCD 7850	7.231
7.344	HARTRAO to HOBART26	7.222	7.397	HRAS 085 to MEDICINA	7.231
7.345	HARTRAO to KASHIM34	7.223	7.398	HRAS 085 to MILESMON	7.231
7.346	HARTRAO to KASHIMA	7.223	7.399	HRAS 085 to NRAO85 3	7.231
7.347	HARTRAO to KAUAI	7.223	7.400	HRAS 085 to PENTICTN	7.232
7.348	HARTRAO to MATERA	7.223	7.401	HRAS 085 to PIETOWN	7.232
7.349	HARTRAO to MOJAVE12	7.224	7.402	HRAS 085 to PINFLATS	7.232
7.350	HARTRAO to NOTO	7.224	7.403	HRAS 085 to PRESIDIO	7.232
7.351	HARTRAO to NRAO85 3	7.224	7.404	HRAS 085 to PT REYES	7.232
7.352	HARTRAO to SANTIA12	7.224	7.405	HRAS 085 to ROBLED32	7.232
7.353	HARTRAO to SESHAN25	7.224	7.406	HRAS 085 to YELLOWKN	7.232
7.354	HARTRAO to SEST	7.225	7.407	JPL MV1 to MON PEAK	7.233
7.355	HATCREEK to HAYSTACK	7.225	7.408	JPL MV1 to PRESIDIO	7.233
7.356	HATCREEK to JPL MV1	7.225	7.409	JPL MV1 to QUINCY	7.233
7.357	HATCREEK to KASHIM34	7.225	7.410	KASHIM34 to KASHIMA	7.233
7.358	HATCREEK to KODIAK	7.225	7.411	KASHIM34 to KAUAI	7.233
7.359	HATCREEK to MAMMOTHL	7.225	7.412	KASHIM34 to MARCUS	7.233
7.360	HATCREEK to PINFLATS	7.225	7.413	KASHIM34 to MEDICINA	7.233
7.361	HATCREEK to PVERDES	7.225	7.414	KASHIM34 to MOJAVE12	7.234
7.362	HATCREEK to SANPAULA	7.226	7.415	KASHIM34 to NOBEY 6M	7.234
7.363	HATCREEK to SNDPOINT	7.226	7.416	KASHIM34 to ONSALA60	7.234
7.364	HATCREEK to YAKATAGA	7.226	7.417	KASHIM34 to SANTIA12	7.234
7.365	HAYSTACK to KASHIM34	7.226	7.418	KASHIM34 to SESHAN25	7.234
7.366	HAYSTACK to KASHIMA	7.226	7.419	KASHIM34 to SEST	7.234
7.367	HAYSTACK to KODIAK	7.226	7.420	KASHIM34 to SINTOTU	7.235
7.368	HAYSTACK to MARPOINT	7.226	7.421	KASHIM34 to WESTFORD	7.235
7.369	HAYSTACK to MEDICINA	7.226	7.422	KASHIM34 to WETTZELL	7.235
7.370	HAYSTACK to PIETOWN	7.227	7.423	KASHIMA to MARCUS	7.235
7.371	HAYSTACK to PLATTVIL	7.227	7.424	KASHIMA to MEDICINA	7.235
7.372	HAYSTACK to PRESIDIO	7.227	7.425	KASHIMA to MIYAZAKI	7.235
7.373	HAYSTACK to ROBLED32	7.227	7.426	KASHIMA to MIZUSGSI	7.235
7.374	HAYSTACK to VNDNBERG	7.227	7.427	KASHIMA to NOBEY 6M	7.235
7.375	HAYSTACK to YAKATAGA	7.227	7.428	KASHIMA to SHANGHAI	7.236
7.376	HOBART26 to KASHIM34	7.227	7.429	KASHIMA to SINTOTU	7.236
7.377	HOBART26 to KASHIMA	7.228	7.430	KASHIMA to TITIJIMA	7.236
7.378	HOBART26 to MOJAVE12	7.228	7.431	KASHIMA to USUDA64	7.236
7.379	HOBART26 to NOBEY 6M	7.228	7.432	KASHIMA to WHTHORSE	7.236
7.380	HOBART26 to ONSALA60	7.229	7.433	KAUAI to LA-VLBA	7.236

7.434 KAUAI to MARPOINT	7.236	7.487 MOJAVE12 to PENTICTN	7.246
7.435 KAUAI to MATERA	7.237	7.488 MOJAVE12 to SANTIA12	7.246
7.436 KAUAI to NOTO	7.237	7.489 MOJAVE12 to SEATTLE1	7.246
7.437 KAUAI to ONSALA60	7.237	7.490 MOJAVE12 to SEST	7.246
7.438 KAUAI to PIETOWN	7.237	7.491 MOJAVE12 to SOURDOGH	7.246
7.439 KAUAI to SANTIA12	7.237	7.492 MOJAVE12 to TROMSONO	7.246
7.440 KAUAI to SEST	7.237	7.493 MOJAVE12 to VICTORIA	7.247
7.441 KAUAI to SHANGHAI	7.238	7.494 MOJAVE12 to WHTHORSE	7.247
7.442 KAUAI to WESTFORD	7.238	7.495 MOJAVE12 to YLOW7296	7.247
7.443 KAUAI to WETTZELL	7.238	7.496 MOJ 7288 to MOJAVE12	7.247
7.444 KAUAI to WHTHORSE	7.238	7.497 MOJ 7288 to OVRO 130	7.247
7.445 KODIAK to WESTFORD	7.239	7.498 MOJ 7288 to OVR 7853	7.247
7.446 KWAJAL26 to SESHAN25	7.239	7.499 MON PEAK to WESTFORD	7.247
7.447 LA-VLBA to MOJAVE12	7.239	7.500 NOME to SNDPOINT	7.248
7.448 LA-VLBA to PIETOWN	7.239	7.501 NOME to WESTFORD	7.248
7.449 LA-VLBA to WESTFORD	7.239	7.502 NOTO to NRAO85 3	7.248
7.450 LA-VLBA to WETTZELL	7.240	7.503 NRAO85 3 to WETTZELL	7.248
7.451 LEONRDOK to RICHMOND	7.240	7.504 NRAO 140 to NRAO85 3	7.248
7.452 LEONRDOK to WESTFORD	7.240	7.505 NRAO 140 to ONSALA60	7.248
7.453 MAMMOTHL to VNDNBERG	7.240	7.506 NRAO 140 to RICHMOND	7.248
7.454 MARCUS to SESHAN25	7.240	7.507 OCOTILLO to OVRO 130	7.248
7.455 MARPOINT to MEDICINA	7.240	7.508 OCOTILLO to PVERDES	7.249
7.456 MARPOINT to NOTO	7.240	7.509 OCOTILLO to VNDNBERG	7.249
7.457 MARPOINT to NRAO85 3	7.241	7.510 ONSALA60 to ROBLD32	7.249
7.458 MARPOINT to ONSALA60	7.241	7.511 ONSALA60 to SEST	7.249
7.459 MARPOINT to OVRO 130	7.241	7.512 ONSALA60 to TROMSONO	7.249
7.460 MATERA to MEDICINA	7.241	7.513 OVRO 130 to PVERDES	7.249
7.461 MATERA to MOJAVE12	7.241	7.514 OVRO 130 to SANPAULA	7.249
7.462 MATERA to NOTO	7.241	7.515 OVR 7853 to OVRO 130	7.249
7.463 MATERA to NRAO85 3	7.242	7.516 PBLOSSOM to SANPAULA	7.250
7.464 MATERA to ONSALA60	7.242	7.517 PENTICTN to WESTFORD	7.250
7.465 MATERA to RICHMOND	7.242	7.518 PENTICTN to YELLOWKN	7.250
7.466 MATERA to WESTFORD	7.242	7.519 PIETOWN to WETTZELL	7.250
7.467 MATERA to WETTZELL	7.242	7.520 PINFLATS to PVERDES	7.250
7.468 MCD 7850 to MOJAVE12	7.243	7.521 PLATTVIL to VERNAL	7.250
7.469 MCD 7850 to PIETOWN	7.243	7.522 PRESIDIO to PT REYES	7.250
7.470 MCD 7850 to WESTFORD	7.243	7.523 PRESIDIO to WESTFORD	7.251
7.471 MEDICINA to NOTO	7.243	7.524 PRESIDIO to YLOW7296	7.251
7.472 MEDICINA to RICHMOND	7.243	7.525 PRESIDIO to YUMA	7.251
7.473 MEDICINA to SESHAN25	7.243	7.526 PT REYES to WESTFORD	7.251
7.474 MEDICINA to WESTFORD	7.244	7.527 PT REYES to YLOW7296	7.251
7.475 METSHOVI to MOJAVE12	7.244	7.528 PT REYES to YUMA	7.251
7.476 METSHOVI to ONSALA60	7.244	7.529 QUINCY to WESTFORD	7.251
7.477 METSHOVI to RICHMOND	7.244	7.530 RICHMOND to TROMSONO	7.252
7.478 METSHOVI to WESTFORD	7.244	7.531 RICHMOND to YLOW7296	7.252
7.479 METSHOVI to WETTZELL	7.245	7.532 ROBLD32 to WESTFORD	7.252
7.480 MILESMON to MOJAVE12	7.245	7.533 SANTIA12 to SESHAN25	7.252
7.481 MILESMON to WESTFORD	7.245	7.534 SANTIA12 to WESTFORD	7.252
7.482 MOJAVE12 to NOBEY 6M	7.245	7.535 SANTIA12 to WETTZELL	7.252
7.483 MOJAVE12 to NOME	7.245	7.536 SEATTLE1 to WESTFORD	7.252
7.484 MOJAVE12 to NRAO 140	7.245	7.537 SESHAN25 to WESTFORD	7.252
7.485 MOJAVE12 to OCOTILLO	7.245	7.538 SESHAN25 to WETTZELL	7.253
7.486 MOJAVE12 to OVR 7853	7.246	7.539 SEST to WESTFORD	7.253

7.540 SINTOTU to USUDA64	7.253
7.541 SNDPOINT to VNDNBERG	7.253
7.542 SNDPOINT to WESTFORD	7.253
7.543 SOURDOGH to WESTFORD	7.253
7.544 SOURDOGH to WHTHORSE	7.254
7.545 TROMSONO to WESTFORD	7.254
7.546 TROMSONO to WETTZELL	7.254
7.547 TRYSILNO to WESTFORD	7.254
7.548 TRYSILNO to WETTZELL	7.254
7.549 VERNAL to VNDNBERG	7.254
7.550 VERNAL to WESTFORD	7.254
7.551 VERNAL to YUMA	7.255
7.552 VICTORIA to WESTFORD	7.255
7.553 VNDNBERG to WESTFORD	7.255
7.554 VNDNBERG to WHTHORSE	7.255
7.555 WESTFORD to WHTHORSE	7.255
7.556 WESTFORD to YAKATAGA	7.255
7.557 WESTFORD to YLOW7296	7.256

8.0 Site Coordinates by Session from GLB868 . 8.1

9.0 Earth Rotation and Nutation from GLB867	9.1
9.1 Polar Motion 1979 - 1983	9.2
9.2 Polar Motion 1984 - 1986	9.2
9.3 Polar Motion 1987 - 1990	9.3
9.4 Polar Motion 1991	9.3
9.4 Variation in UT1 - TAI	9.4
9.5 CDP VLBI Nutation Offsets to IAU 1980	9.5



FINAL CRUSTAL DYNAMICS PROJECT DATA ANALYSIS

I. INTRODUCTION

This report documents the final results obtained by the Goddard Crustal Dynamics Project VLBI Data Analysis Team from the analysis of the Mark III VLBI geodetic data available to the Crustal Dynamics Project (CDP) from 1979 to 1991, inclusive. These results are available from the Crustal Dynamics Data Information System (CDDIS) in printed form, on computer tape, on 3.5" IBM-PC diskettes, or electronically. Future reports will be continued by the NASA Space Geodesy Program--GSFC supporting the activities of the NASA headquarters Dynamics of the Solid Earth program.

There are significant differences, summarized below, between the data and analysis presented in this year's annual report and those of previous years.

- The *a priori* right ascension of the quasar radio source 0420-014, which has less structure resolvable on long baselines than 3C273B, is used to define the origin of right ascension for the celestial reference frame.
- The terrestrial reference frame in the current report is defined within a single terrestrial reference frame solution using all data, fixed and mobile, rather than using two solutions.
- November 22, 1985 is the reference day for nutation and Earth orientation rather than November 6, 1986 as the Earth orientation parameters (EOP) in the session conducted on the former date have smaller 1- σ standard statistical errors.
- The United States Naval Observatory (USNO) concrete series, a daily series, was used for *a priori* EOP values.
- EOP rates were not estimated within the solutions.
- Kalman filtering was applied to the EOP series generated in the celestial and terrestrial reference frame solution to generate an *a priori* VLBI EOP file for use in the baseline solution.
- A continuous, piecewise-linear position model was used for the position of HRAS 085.

The origin of the terrestrial reference frame in the current solution is not as close to the origin of the 1990 International Terrestrial Reference Frame (ITRF90) (Boucher, 1990) as in the previous annual report. Also, the results from the WESTFORD antenna are no longer mapped to HAYSTACK in the tables for HAYSTACK as in some previous annual reports.

A VLBI delay model contained in the International Earth Rotation Service (IERS) standards (McCarthy, 1989) was used for the analysis. The model has a comprehensive treatment of special and general relativity and is correct at the level of a few picoseconds. The baseline lengths are in a geocentric coordinate frame in the general relativistic sense.

Data from fixed stations, mobile sites, and transportable antennas obtained in observing sessions sponsored by the CDP, the Geoscience Laboratory (GSL)--formerly the National Geodetic Survey (NGS), the U.S. Naval Observatory (USNO), three German organizations--the Institute of Applied Geodesy (IfAG), the Geodetic Institute of the University of Bonn, and the Geodetic Research Institute, and four Japanese institutions--the Geographical Survey Institute (GSI), the National Astronomical Observatory (NAO), the Communications Research Laboratory (CRL), and the National Space Development Agency (NASDA) are included in this report. The fixed and mobile data are combined in the analysis and presented together. The VLBI group delay observable is primarily used in the analysis. Phase delay observations are only used in five sessions discussed below. Much of the material is presented graphically to give the user greater insight into data quality and geodynamic implications. However, all the underlying results are available in the machine-readable version of this report. The results presented here are complete in that they include all available relevant VLBI data and supersede results given in previous reports. The values were estimated from two new least-squares adjustments designated GLB867 and GLB868, which are discussed in section IV.

Site velocities have been estimated directly for 63 sites. Sufficient data are lacking to estimate velocities for another 32 sites. One site, HRAS 085, was treated as a special case, discussed later. These site velocities

are tabulated with reference positions at January 1, 1988 in geocentric Cartesian coordinates. The correlation matrix for these positions and velocities is included so that the site positions and uncertainties can be extrapolated to other epochs. Additionally, annual site positions and uncertainties for 1979-95 derived from these velocities are tabulated for ease of interpolation. Velocities for these same sites are also tabulated in topocentric coordinates; horizontal rates, azimuths and 1- σ standard statistical error ellipsoid parameters are included. The velocities are also given in the no-net-rotation NUVEL-1 tectonic plate motion model (Argus and Gordon, 1991).

Each tabular section of this report is introduced by a page that describes the section contents in detail. The information on these introductory pages is collected in the file CONTENTS.92 in the machine-readable version.

II. DATA

A. Instrumentation

The Mark III instrumentation is described in detail by Rogers *et al.* (1983) and Clark *et al.* (1985). Its most important characteristic is the ability to sample and record up to 28 discrete frequency channels simultaneously, each up to 4-MHz in bandwidth. The standard CDP practice was to use 14 frequency channels of 2-MHz bandwidth, 8 applied to X-band (spanning 360 MHz around 8.4 GHz) and 6 to S-band (spanning 85 MHz near 2.3 GHz). Some CDP research and development sessions and some USNO sessions starting in September 1991 used twice the standard spanned bandwidth and twice the standard single channel bandwidth. Observations on individual sources run from 90 to 800 seconds. Real-time logging of barometric pressure, temperature, relative humidity, and cable length calibrations is an integral part of the Mark III system. Hydrogen masers serve as both time and frequency standards for all observing sessions. Phase calibration tones are injected into the receiver front end providing reference signals to remove instrumental dispersion.

B. Observing Programs

The CDP made VLBI measurements in several geographic areas on different scales, as described below. In addition, the GSL with IfAG and other

agencies coordinates the IRIS program, which observes for 24 hours at regular intervals to monitor Earth rotation. Similarly, the USNO NAVNET program also monitors Earth rotation with another network. Data from the CDP, the USNO, the NGS/GSL, the GSI, and the Geodetic Institute of the University of Bonn, are the basis for the current analysis. There exist high-precision Mark III VLBI data that are not included here. These include CDP source surveys, IRIS daily 1-hour UT1 sessions, and some observations sponsored by the Deep Space Network, the U.S. Naval Observatory and the Naval Research Laboratory for astrometry and Earth rotation.

Mobile measurements use the Mark III recording, logging and timing systems described above for all VLBI observations. The antennas are mounted on platforms and the electronics are contained in trailers, both of which can be transported by truck, air, or barge. Mobile observations always employ several fixed-base stations and one or more mobile units. The unit designated MV-1, the original mobile system, was stationed at the Vandenberg Air Force Base in 1983 and used there as a base station until the summer of 1990. It was later moved to Yellowknife (YLOW7296) where it went into service in the summer of 1991. After CDP mobile operations ceased in the summer of 1991, the MV-2 system was deployed in Europe. MV-3 was moved permanently to the Goddard Space Flight Center as part of the Goddard Geophysical and Astronomical Observatory (GGAO).

The vector from a ground geodetic monument to the VLBI reference point of the mobile antenna (eccentricity) is recorded for each session. A single reference geodetic monument is used at each mobile site although the antenna may have been placed over different monuments for different site occupations. The eccentricity data were compiled by the NGS/GSL for the CDP and are available in the machine-readable version of this report in a file named ECCDAT.

The GSI employs a transportable 5-m antenna at some Japanese sites. This system is assembled on a permanent foundation for the duration of a campaign and then is disassembled and transported to another site. No eccentricity is applied at the GSI sites. Consequently the VLBI position is at the intersection of the antenna axes.

The results presented here use the complete mobile data set for the period 1982-91. Earlier single-frequency experiments are unusable because of the inability to calibrate the ionosphere.

The purposes of the various observing programs include:

Advance Technology Development (ATD), CDP sessions to test and improve observing strategies using fixed stations in North America.

Alaska, CDP sessions to monitor motions at several Alaskan mobile sites including three sites in seismic gaps near the boundary between the Pacific and North American plates. The last observations in this program were in the summer of 1990. There are currently no plans to continue the program.

Atlantic, U.S. to Europe sessions sponsored by the CDP designed to measure motion between North America and Europe.

California, mobile sessions sponsored by the CDP carried out to measure regional deformation and episodic motion in California especially at sites associated with the San Andreas fault. The last of these observations were made in the summer of 1991 and there are no plans for further measurements.

East Atlantic, U.S. to Europe sessions sponsored by the CDP to measure motion between North America and Europe with emphasis on European stations.

Europe mobile, mobile observing sessions carried out by the NGS/GSL for various European agencies at BREST, CARNUSTY, GRASSE, HOHENFRG, METSOHVI, TROMSONO and TRYSLNO.

German Transasia, sessions sponsored by the Geodetic Institute of the University of Bonn, using stations in Germany, South Africa, China, and Japan.

Global, sessions sponsored by the CDP designed to measure a network spanning the Earth.

Japan CRL, session sponsored by the CRL to determine the local tie between KASHIMA and KASHIM34.

Japan GSI, sessions sponsored by the GSI using fixed stations and a transportable 5-m antenna to provide

fiducial points and to measure regional deformation in and around Japan.

Intra-Europe, sessions sponsored by various agencies using fixed stations to measure networks within Europe.

IRIS-A and POLARIS, NGS-sponsored sessions designed primarily to monitor Earth rotation. POLARIS sessions began in November 1980 with HAYSTACK and HRAS 085 and were scheduled every 7 days. ONSALA60 participated monthly when possible. HAYSTACK was replaced by WESTFORD in June 1981. In August 1983 operations were increased to five-day intervals. Two new stations, RICHMOND and WETTZELL, were brought on-line in late 1983 and IRIS-A became fully operational in 1984. HRAS 085 was replaced with MOJAVE12 during the summer of 1989. Until April 1991 IRIS-A undertook one 24-hour session every 5 days with MOJAVE12, RICHMOND, WESTFORD, and WETTZELL with the monthly participation of ONSALA60. (Since then, IRIS-A and NAVNET each observe once a week.) Whenever possible, ONSALA60 continues to observe monthly. MEDICINA also participates occasionally. Operational support of the IRIS network passed from the NGS to the GSL in October 1991.

IRIS-A EUR (European), sessions scheduled by adding a mobile unit at a European site during a regularly scheduled IRIS-A session.

IRIS-P (Pacific), observing sessions carried out by the Japanese NAO Earth Rotation Division using KASHIMA, KASHIM34, NOBEY 6M and stations in the U.S. and Australia.

IRIS-S (South Africa), observing sessions carried out by the NGS/GSL using HARTRAO and the IRIS-A stations in Europe and the U.S.

Local Survey Ties, mobile sessions involving short baselines for establishing local ties between fixed-antenna reference points and ground monuments used in other (such as satellite laser ranging or Global Positioning System) networks.

MERIT, a series of sessions in 1980 sponsored by the International Association for Geodesy and the International Union for Geodesy and Geophysics to prove the efficacy of modern techniques in monitoring

Earth rotation.

NCMN (National Crustal Motion Network), NGS-sponsored sessions to establish a grid of fiducial points across the U.S.

NAVEX, USNO NAVNET sessions with the addition of a European station to the network to improve the determination of UT1.

NAVNET, USNO sessions designed to obtain precise measurement of Earth orientation and nutation parameters using only U.S. stations.

North American Plate Stability, transcontinental sessions sponsored by the CDP designed to measure the internal stability of the North American Plate.

Pacific, CDP sessions designed to measure networks in the Pacific Basin.

Polar, CDP sessions involving stations in Europe, the conterminous U.S., Alaska, and Japan. These sessions link the global VLBI reference frame by using stations that typically do not observe together in the same network.

Research and Development, CDP sessions designed to test innovations in hardware and scheduling techniques.

Transasia, sessions sponsored by the CDP using fixed stations in Europe, Africa, Australia, and Asia.

Trans-U.S., sessions sponsored by the CDP using fixed stations on the east and west coast of the U.S.

USNO Test, early USNO sessions done in preparation for NAVNETs.

Western Canada, sessions using mobile units in western Canada and sometimes MV-1 at Yellowknife to establish a grid of fiducial points and measure the internal stability of the North American Plate.

Western U.S., mobile sessions sponsored by the CDP to measure deformation across the Basin and Range Province and in the boundary zone between the North American and Pacific plates. These sessions have been discontinued.

In Table 2.1 of this report each observing session

name is followed by a program name, often preceded by the name of the sponsoring agency.

C. Phase Delay Observations

Phase delay observations were attempted in a total of fifteen sessions. However, in the analysis presented in this report phase delay data were only used in five sessions, \$84JAN07X, \$84JAN14XP, \$91MAY16X, \$91MAY30X, and \$91JUN04X. The intrinsic precision of the phase delay is considerably better than that of the group delay, but the small size of the phase delay ambiguity limits its geodetic applications to short baselines or special schedules.

III. DATA ANALYSIS METHODS

A. Processing and Data Handling

Most of the CDP data discussed here were correlated by the Haystack Mark III correlator. Some IRIS data were correlated at the Max Planck Institute for Radio Astronomy in Bonn (FRG). Beginning in 1986, most IRIS and some CDP data were processed at the Washington correlator at the U.S. Naval Observatory. All three correlators have identical designs, but their capabilities depend on the number of tape drives and high-density heads. Some data involving KASHIMA were correlated at Kashima using the Japanese K-3 correlator. For the purposes of this report the output of the four Mark III-compatible correlators can be considered indistinguishable. The output of these correlators is sent to either the analysis center at the Goddard Space Flight Center or similar centers at the GSL in Rockville, MD, and the USNO in Washington, DC where the data are organized by session and frequency band into Mark III databases. Calibration data, solar system ephemerides, Earth orientation information, *a priori* parameter values, partial derivatives, and theoretical delays and rates are added to each database prior to actual data analysis. In the analysis process information about editing, ambiguity resolution, solution parametrization, and data-variance-modification is added to the databases. The final database files are available to investigators from the CDDIS. The Mark III Data Base System utilities required to read the files have been implemented on HP1000, VAX 11/780, and HP-9000 series 300, 700, and 800 computer systems.

B. Models

The models generally conform to the IERS standards (McCarthy, 1989), except the permanent tide correction, which is not applied. The *a priori* precession and nutation models are the J2000.0 and IAU 1980 models, respectively. Daily nutation offsets are estimated to overcome the deficiencies in these models. The *a priori* Earth orientation parameters from the USNO concrete series are interpolated to each observation epoch and then modified by the standard IERS model for short-period tidal variations in UT1. Daily polar motion and UT1 values are estimated. The tidal potential used to compute the effect of solid Earth tides is calculated using the JPL DE 200 ephemeris; the values of the Love numbers are 0.60967 for Love h, 0.085 for Love l, and zero for the phase lag. A pole tide model is also used. General relativistic solar deflection and retardation is modeled using 1.0 (Einstein's value) for γ . An axis offset model is applied for each antenna where the pointing axes do not intersect. The internationally defined value of the speed of light (299,792,458. m/sec) is used. The geophysical and astronomical models are embodied in the program CALC 7.6 developed by the Goddard VLBI group. Mark III observations are calibrated for the delay caused by charged particles in the line of sight (ionosphere and extraterrestrial plasma) by generating new observables that are linear combinations of the X-band and S-band observations. To the extent that the delay effects of charged particles have a purely inverse frequency-squared dependence, these new observables are free of charged-particle effects.

The tropospheric delay is divided into two components, the 'hydrostatic' delay (often loosely called 'dry' delay) computed from total pressure and a 'wet' delay due to additional delay caused by water vapor. The hydrostatic delay for each observation is calibrated using the Saastamoinen model (Saastamoinen, 1972) for the hydrostatic zenith delay mapped to the elevation of the observation with the MTT model (Herring, 1992), which requires measurements of local pressure, temperature and humidity. Sometimes, valid meteorological measurements were not available and site-dependent static values were substituted. The wet delay is not calibrated. The entire effect is estimated using the method described below in Section D.

Cable calibration, i.e., corrections for variations in the

electrical length of the cable carrying timing signals from the maser frequency standard to the receiver, is applied where available and useful.

C. The GLOBL Analysis System

The GLOBL analysis system supports the adjustment of parameters using an arbitrarily large set of data within the memory limits of the Goddard VLBI workstation facility. GLOBL is a batch extension of the interactive SOLVE system developed by the Goddard VLBI group and is used for all routine large solutions. After a database for one observing session has been fully updated using SOLVE, a 'superfile' retaining the necessary information is created. The complete set of superfiles is the potential input to GLOBL. GLOBL processes the selected superfiles sequentially, in each step applying arc parameter elimination and carrying the global parameters forward. See the appendix of Ma *et al.* (1990) for a rigorous discussion of this process. 'Arc' parameters are those relevant only to a single database, e.g., clock and atmosphere parametrization for a single session, UT1 and polar motion, and daily nutation adjustments. 'Global' parameters are those whose estimated values may be affected by more than one observing session, e.g., source positions and site velocities. Coefficients of the nutation series, the precession constant, and Love numbers of the solid Earth tide are other possible global parameters. Depending on the purpose of the GLOBL solution, station coordinates can be treated as either global or arc parameters.

Since at each step GLOBL handles only the global parameters and arc parameters required for a single database, large solutions including many days of data are possible using computers of modest size. Current program and machine size constraints limit the maximum number of global parameters in one solution to 1536 and the maximum number of arc and global parameters to 1536 per arc. Sequential processing does entail two passes through the data. After the first pass the values of the global parameters are known. The second pass is necessary to recover the arc parameter values and the solution statistics. The two passes give a solution that is identical to a conventional one-step, least-squares estimation of the entire ensemble of estimated parameters without the need for inversion of enormous matrices.

D. Parametrization of the Site Troposphere and Clock

SOLVE can model short-term variations in the troposphere and clock at each site. For a given site the effects of uncalibrated (primarily 'wet') tropospheric delay are modeled with a continuous, piecewise-linear function. This function models the evolution of the site's residual tropospheric zenith path delay. The durations of the linear segments are specified for a given solution and are uniform. Durations from 20 minutes to the length of the observing session are possible, but a duration of 60 minutes has been found to provide the degrees of freedom needed to accommodate most real, uncalibrated troposphere variations. The troposphere parameters estimated using the MTT mapping function are the initial zenith path delay offset and the offset at the endpoint of each linear segment. The initial offset is unconstrained, and the rates of each segment are constrained by assigning them an *a priori* value of 0 ps/hr and an uncertainty of 50 ps/hr. The nominal slope constraint is based on a study of actual weather observations (Herring, personal communication; Treuhaft and Lanyi, 1987). For some sessions with unusual weather the rate constraint is relaxed. However, over a wide range of constraints--10 ps/hour to nearly unconstrained rates--the geodetic parameters are virtually insensitive to the size of the troposphere constraint, and the errors of the geodetic parameters are sensitive only at the level of a few percent. The critical element of the troposphere estimation method is that it permits short-term variation in the residual troposphere while enforcing continuity in the estimation.

Similarly, the clock estimation algorithm is designed to model short-term, random clock variations while enforcing realistic physical constraints on continuity and rates of change. When all clocks are 'well-behaved' the algorithm is as follows: the clock at one site is designated the reference clock and the differences between that clock and the other site clocks are modeled. These differences are modeled as the sum of two functions--a second-order polynomial and a continuous, piecewise-linear function with an initial value of zero. The three coefficients of the polynomial correspond to clock epoch offset, clock frequency offset, and clock frequency drift. They are unconstrained in the solution because these parameters can be arbitrarily large for real hydrogen masers. In the piecewise-linear function, the offset at

the end of each linear segment is estimated. Typically, the linear segments are each one hour long and the rate of change is constrained to be consistent with the Allan variance of a hydrogen maser at 1 hour. For this report the normal constraint is 5 parts in 10^{14} . In a few sessions clocks performed poorly, e.g., experiencing epoch jumps or substandard frequency stability. These sessions require more complicated modeling beyond the scope of the present discussion.

E. Earth Orientation Parameters

Different Earth orientation parameter series can be applied during analysis by using the EOP partial derivatives to map the observables from the *a priori* values to new values. In addition, uncertainties and correlations associated with the EOP series can be applied as an *a priori* covariance matrix. If an *a priori* EOP covariance is applied and both EOP and site positions are simultaneously adjusted as arc parameters, then the uncertainties associated with the input EOP series will be correctly propagated into the site and baseline components.

F. VLBI Observables

Two VLBI observables were used in some past analyses, group delay and phase delay rate. Tests with GLOBL solutions on large data sets show that the delay rates may add noise to the baseline measurements as indicated by the consistency of linear baseline evolution. Consequently, delay rate data were not used for the results given in this report.

IV. DATA ANALYSIS RESULTS

A. Solution GLB867

The purpose of the GLB867 solution was to establish terrestrial and celestial reference frames and to estimate EOP values, uncertainties, and correlations from the ensemble of data available to the CDP, including POLARIS/IRIS, NAVNET and NAVEX sessions. Observations at less than five degrees elevation were excluded from this solution because of the inability to adequately model the troposphere at elevations this low. Weak *a priori* uncertainties of 45 milliarcseconds for X and Y pole offsets and 3 ms for UT1 were applied so that all three values could be estimated from single-baseline sessions.

The orientation of the celestial reference frame was defined by the instantaneous values of precession and nutation for the reference day, November 22, 1985, computed from the standard models and by holding the right ascension of the quasar 0420-014 fixed at its *a priori* value. All other source coordinates were adjusted as global parameters. The origin and orientation of the terrestrial reference frame were defined by the following conditions. The coordinate system was that in which the *a priori* motion of the various plates is defined by the no-net-rotation NUVEL-1 model of global tectonic plate motion. The origin of the VLBI reference frame was defined by the *a priori* position of WESTFORD at the station reference epoch January 1, 1988. The orientation of the frame was defined by the Earth orientation interpolated from USNO Concrete series to the epochs of the observations of the EOP reference day November 22, 1985. Since the positions of stations except WESTFORD and the velocities of stations with sufficient data except WESTFORD and HRAS 085 were adjusted, further constraints were required for a well-defined frame. The direction of the vector from WESTFORD in Massachusetts to RICHMOND in Florida was constrained to change according to the NUVEL-1 model although the position of RICHMOND and the magnitude of the vector were adjusted.

The vertical rate at KAUAI was constrained to zero to provide a good vertical definition. Several pairs of sites, FORT ORD and FORTORDS, KASHIMA and KASHIM34, DSS65 and ROBLED32, SESHAN25 and SHANGHAI, KAUAI and HALEAKAL, MOJAVE12 and MOJ 7288, and OVRO 130 and OVR 7833 are geographically close enough to be considered identical for geodetic purposes. The velocities at these pairs of sites were linked, i.e., constrained to be equal after adjustment, to strengthen the solution and to propagate the positions.

Stations whose velocities were not estimated, including WESTFORD, moved according to the *a priori* NUVEL-1 model. An episodic motion model, which allows for discontinuous motion at individual sites, was used for five sites: YAKATAGA, SOURDOGH, WHTHORSE, PRESIDIO, and FORTORDS. Because of its anomalous behavior, the position of HRAS 085 was modeled with a continuous piecewise-linear function (similar to that used to model the tropospheric delay) with 2-month linear segments and a rate constraint of 30 mm/yr.

These constraints served to define a robust reference frame. The VLBI site coordinates and corresponding EOP/nutation values provide a self-consistent transformation between VLBI celestial and terrestrial reference frames. The GLB867 solution included 864359 group delays in 1648 observing sessions, most approximately 1 day long. There were 1080 global parameters (station positions, selected station velocities, and source positions) and 326021 arc parameters. There were 657379.2 degrees of freedom, including fractional degrees of freedom associated with the troposphere, clock, and EOP constraints. The weighted rms fit was 43.5 ps and the reduced χ^2 was 1.06. The source positions in Table 3.1, the site positions and velocities in Section 4 and 5, and the Earth orientation parameters plotted in Section 9 of this Annual Report were generated by this solution.

B. Solution GLB868

The purpose of the GLB868 solution was to produce tables of baseline evolution from the ensemble of VLBI data without *a priori* assumptions about tectonic plate motion. The station coordinates were therefore treated as arc parameters, i.e., they were allowed to vary from session to session, subject only to the constraint of being estimated with a global set of source coordinate values and an *a priori* EOP series.

The EOP information generated in GLB867 was first culled to remove results from sessions for which EOP were poorly determined. Typically, these were mobile sessions or sessions with single baselines, although the single baseline POLARIS sessions were included to avoid large gaps in the early data. These results were then processed using a Kalman filter (Morabito, 1988) to produce a smoothed daily series that was then used as the *a priori* EOP series in GLB868 to estimate orthogonal baseline components and geocentric site positions for each observing session.

The GLB868 solution included 864359 group delays in 1648 observing sessions. There were 318 global parameters (source positions) and 340736 arc parameters. There were 649293.3 degrees of freedom. The weighted rms fit was 42.8 ps and the reduced χ^2 was 1.04. The baseline component results presented in Section 6 and 7 were generated in GLB868.

C. Results

1. Station Coordinates and Velocities

Table 4.1 contains the position of each fixed station and mobile site in geocentric Cartesian coordinates in the VLBI reference frame at the station reference epoch, January 1, 1988. The adjusted site velocities are also included with the position/velocity correlation matrix in lower triangular form. Because of its anomalous behavior, HRAS 085 has been tabulated separately in Table 4.2. Table 4.3 includes velocities and their respective $1\text{-}\sigma$ error ellipses in topocentric coordinates for the same sites. For each site in Table 4.3 the corresponding deviation from NUVEL-1 velocities is included for comparison. These same results are available in machine-readable form with the full station position and velocity correlation matrix corresponding to Table 4.1. Sites whose velocities were assumed from NUVEL-1 can be identified in these tables by zero uncertainties in velocity. Site positions and uncertainties at January 1 of each year from 1979-95, also generated from solution GLB867, are found in Tables 5.1 through 5.17 of this report. Site positions and their associated uncertainties were propagated using the reference epoch positions, the velocities (either adjusted or NUVEL-1), and the relevant covariances. The position uncertainties do not change with time for sites whose velocities were not adjusted, i.e., no provision has been made to propagate the errors of the underlying NUVEL-1 model.

All mobile results are referred to ground monuments using the eccentricity data obtained during each observing session. The results for MV-1 at Vandenberg and Yellowknife are also referred to a ground monument. The fixed antenna results are referred to a position in the antenna structure. For an antenna with intersecting axes, the VLBI reference point is at the intersection of axes. For an offset axis antenna, the VLBI reference point is at the point of intersection of the fixed axis with the plane perpendicular to the fixed axis containing the moving axis. The CDP monument number of each mobile ground monument and fixed-station antenna reference point is shown in Table 1.2.

Discontinuous motions have been suspected at WHTHORSE and observed at YAKATAGA and SOURDOGH (Ma *et al.*, 1990) and at some sites in northern California, notably FORTORDS and

PRESIDIO (Clark *et al.*, 1990). In the solution GLB867 motions at these sites have been permitted to exhibit an instantaneous displacement on dates corresponding to the large earthquakes believed responsible for the discontinuous behavior. The site velocities were assumed to be the same before and after these displacements. Two entries for each of these stations appear in the tables of station positions. The first does not take into account the instantaneous displacement, while the second does. HRAS 085 in Texas has also exhibited peculiar behavior. Consequently, no velocities were determined for HRAS 085. Instead positions have been independently determined using the continuous piecewise-linear method with 2-month intervals and a constraint of 30 mm/yr. These positions may be found in Table 4.2 tabulated by the beginning epoch of each position.

The histograms of $1\text{-}\sigma$ standard statistical errors in topocentric positions and velocities are given in Figures 1 and 2, respectively, separated for fixed stations and mobile sites. These histograms show that the east components are the best determined. The east component has smaller errors than the north component due to the geometry of the observing networks. The up components are the most poorly determined because of the strong correlation between the up and atmosphere parameters. The mobile site components are generally not as well determined as the fixed station components, particularly in the up direction because of the inability of the mobile systems to observe at low elevations. It should be noted that the position errors in the histograms are at the station reference epoch, January 1, 1988. For a station with adjusted velocity, the errors are influenced by the strength of the velocity determination and the time between the reference epoch and the mean observation epoch for the station. For a station with velocity fixed at the *a priori* NUVEL-1 value, the error is applicable at the mean epoch of observations. Such stations generally have single occupations that span several days.

Included in this report are maps of the observed motions of VLBI fixed stations and mobile sites. The horizontal velocity vectors as determined by VLBI in solution GLB867 are shown with their respective $3\text{-}\sigma$ error ellipses. The NUVEL-1 plate motion model was used to determine *a priori* velocity vectors for each site. These vectors, shown without error ellipses, are included on the map at each site and station for

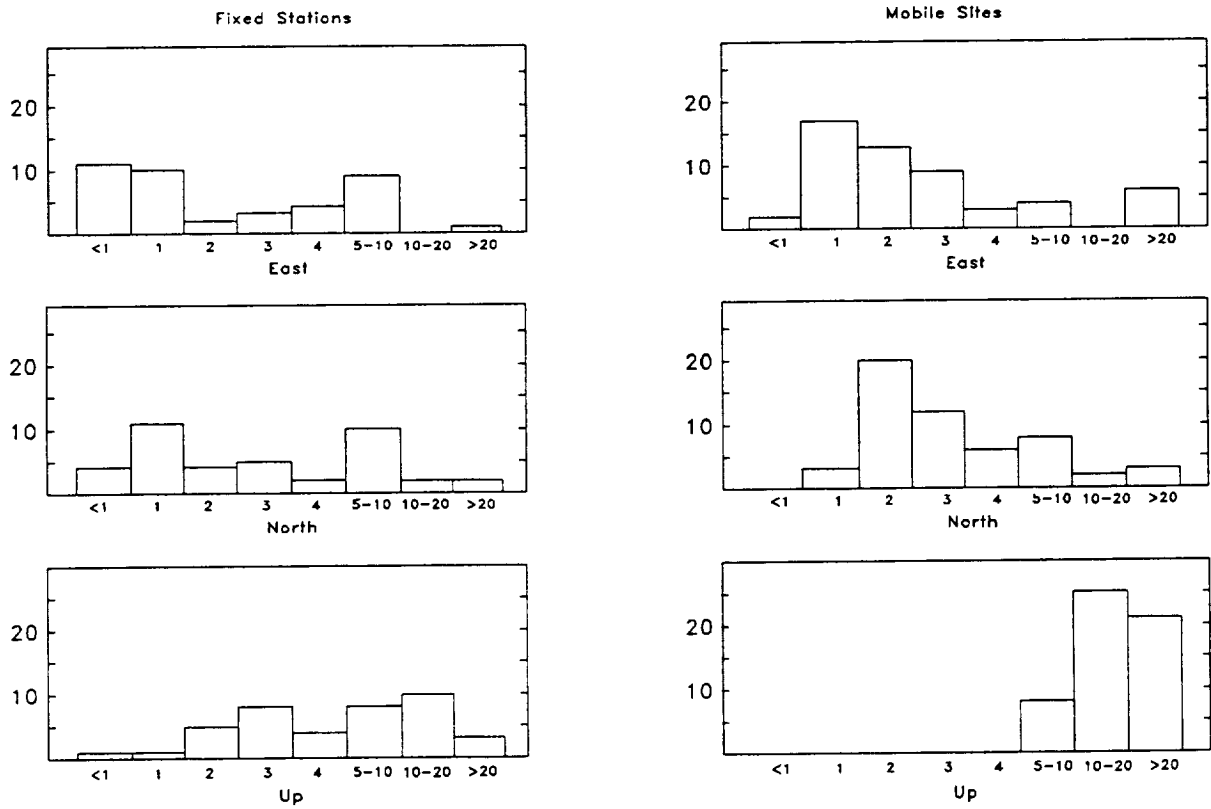


Figure 1. One- σ standard statistical errors (mm) in position at January 1, 1988.

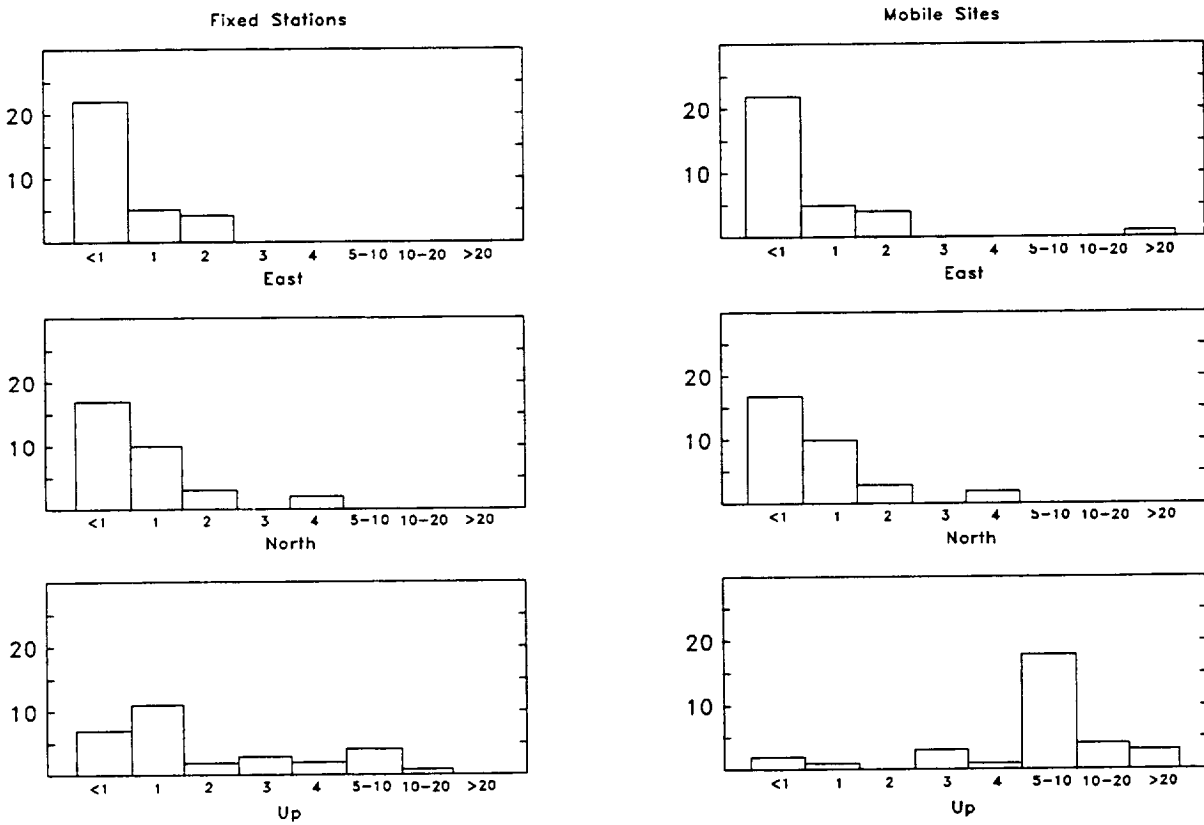


Figure 2. One- σ standard statistical errors in velocity (mm/yr).

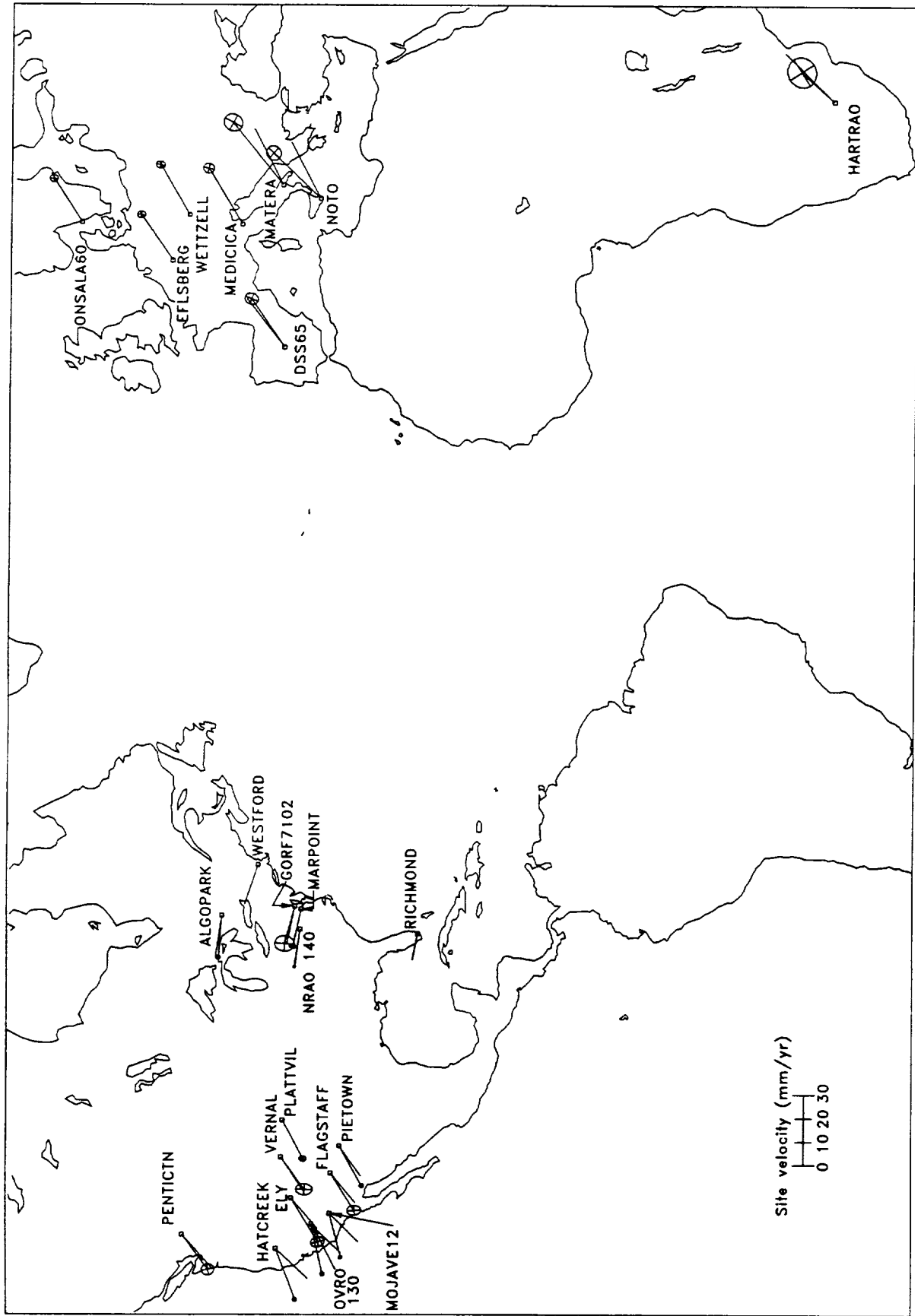


Figure 3. Transatlantic and trans-U.S. site velocities ($3-\sigma$ error ellipses) from GLB867.

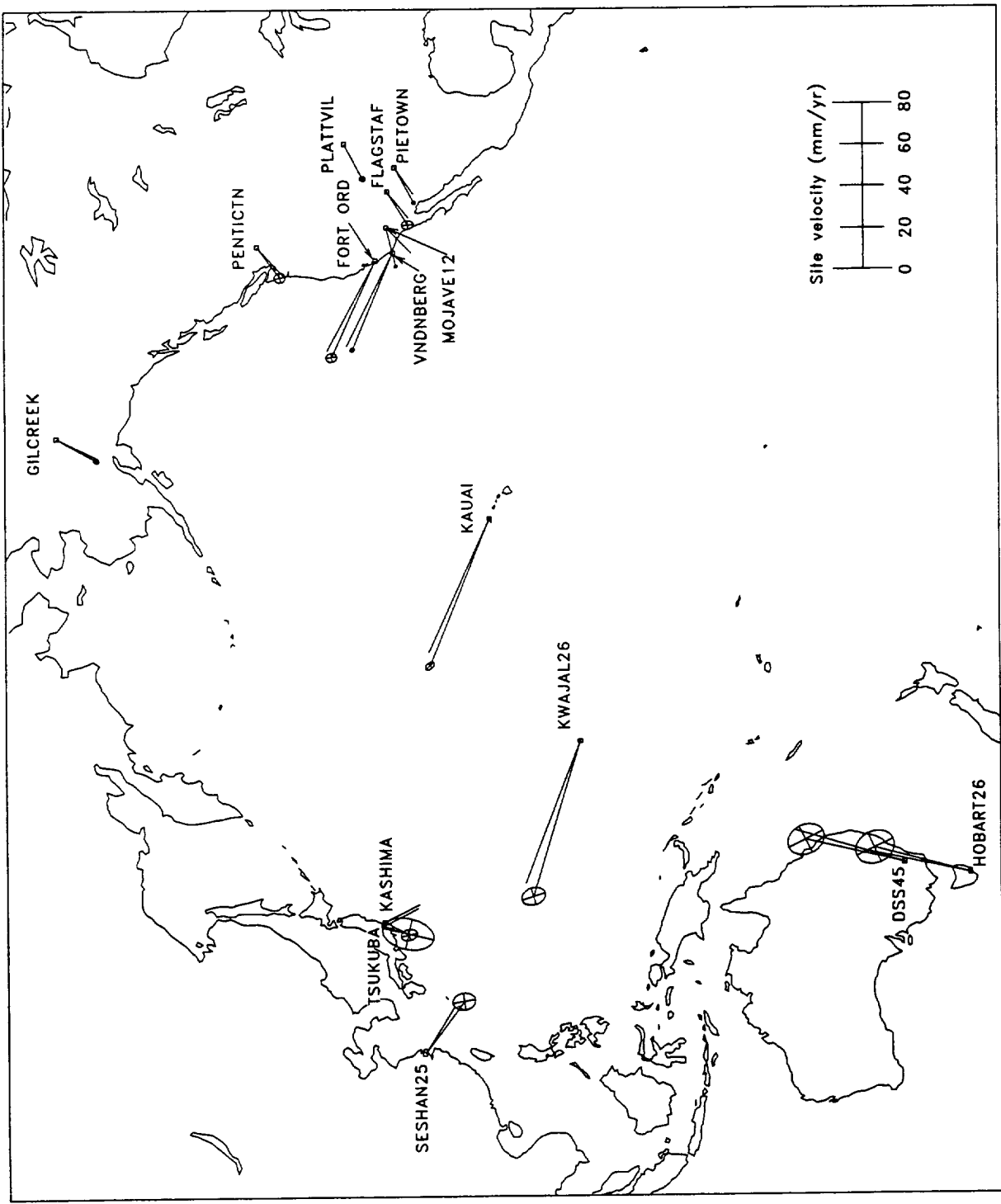


Figure 4. Pacific site velocities ($3\text{-}\sigma$ error ellipses) from GLB867.

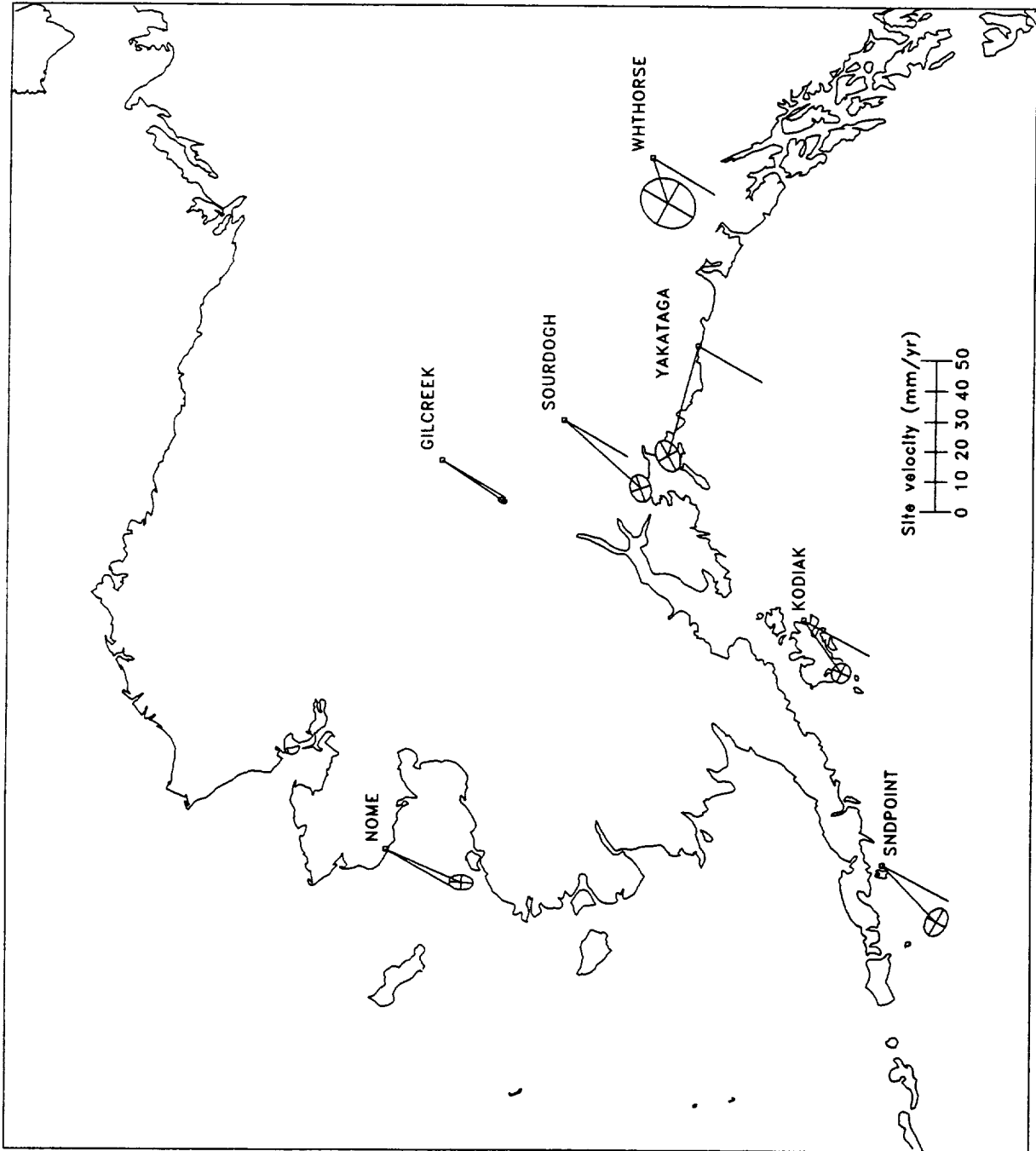


Figure 5. Alaskan and northwestern Canadian site velocities ($3\text{-}\sigma$ error ellipses) from GLB867.

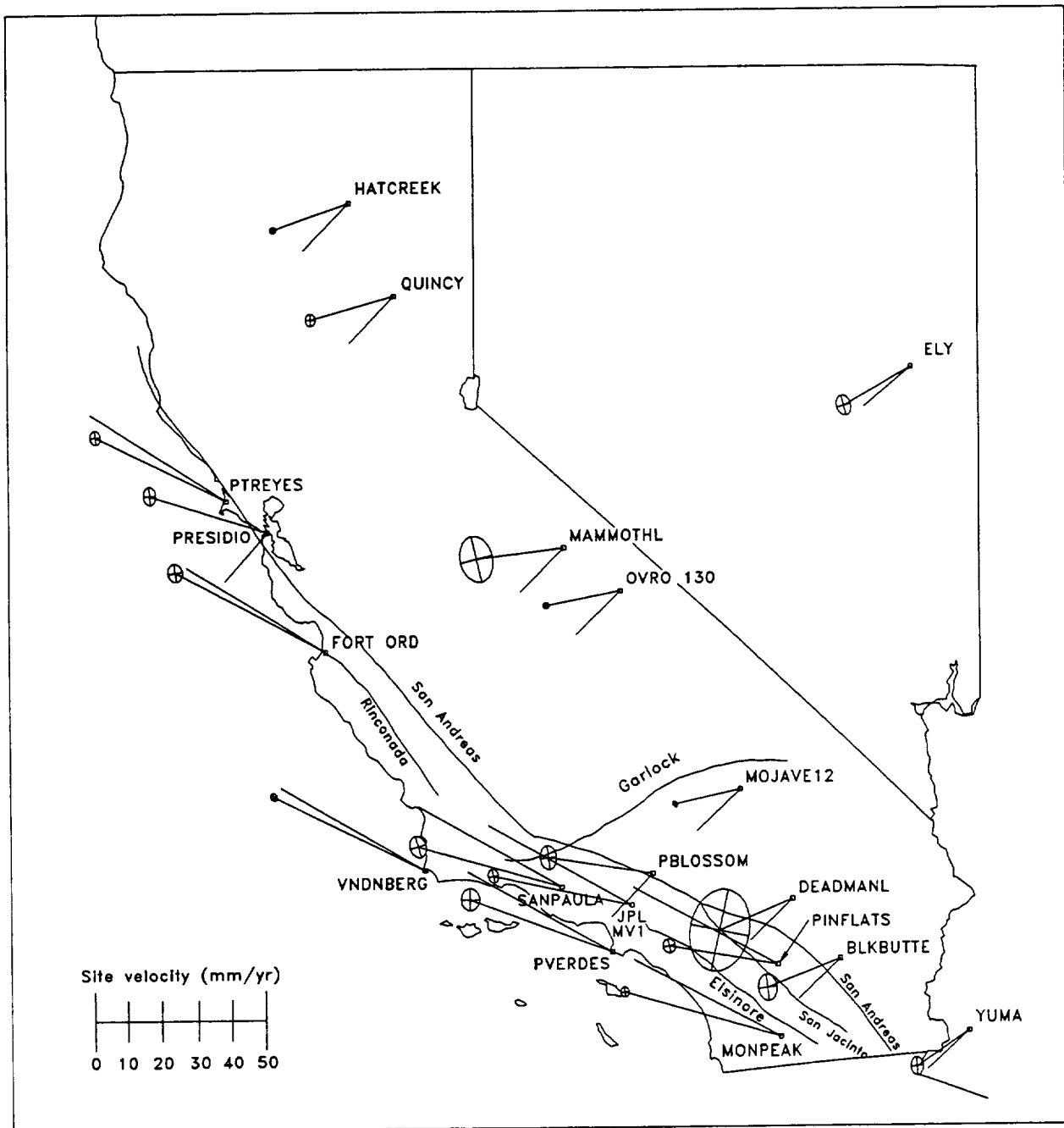


Figure 6. Southwestern U.S. site velocities ($3\text{-}\sigma$ error ellipses) from GLB867.

comparison. The plate that was assumed for each site and station is shown in Table 1.2.

Figure 3 is a map of the fixed stations used for IRIS-A, IRIS-S, and Atlantic sessions and some stations in western North America. The close agreement between the *a priori* and adjusted vectors for stations in eastern North America is a consequence of the choice of stations (WESTFORD and RICHMOND) used to establish the VLBI terrestrial reference frame and the absence of significant deformation.

Figures 4 through 6 are similar maps of fixed station and selected mobile site velocities in and around the Pacific, in Alaska and northwestern Canada, and in the southwestern U.S. respectively.

The machine-readable report also contains the geocentric, Cartesian coordinates of each fixed station and mobile site for each session from solution GLB868 arranged alphabetically and tabulated chronologically. It should be noted that the position for a given epoch is in the coordinate system defined by the (arbitrary) reference station for that observing session and that different sessions having unrelated observing networks will have different reference stations. The positions of the reference stations do not change with time. Estimated station coordinates and correlations between station coordinates for each observing session are also available, tabulated

chronologically in the machine-readable report.

2. Baseline Evolution

The evolution of each baseline is presented in three orthogonal components: length, transverse, and vertical, illustrated below in figure 7. The baseline length is the chord distance between the reference points at the two ends. The reference point for a fixed station is within the antenna structure. The reference point at a mobile site, at VNDNBERG, and at YLOW7296 is a ground survey monument near the mobile antenna.

The transverse direction for a given baseline is defined by the cross product of the *a priori* baseline vector from station 1 to station 2 with the *a priori* geocentric vector to station 2. The transverse component is the adjustment from the *a priori* baseline vector in the direction perpendicular to the baseline vector and directed toward the horizon at either site, and is defined such that a clockwise rotation seen from above is positive in sign.

The vertical direction is perpendicular to the length and transverse directions and is radially inward at the center of the baseline. For short baselines the baseline vertical direction is close to the topocentric vertical direction at either site. The vertical component is the adjustment from the *a priori* baseline vector in the baseline vertical direction.

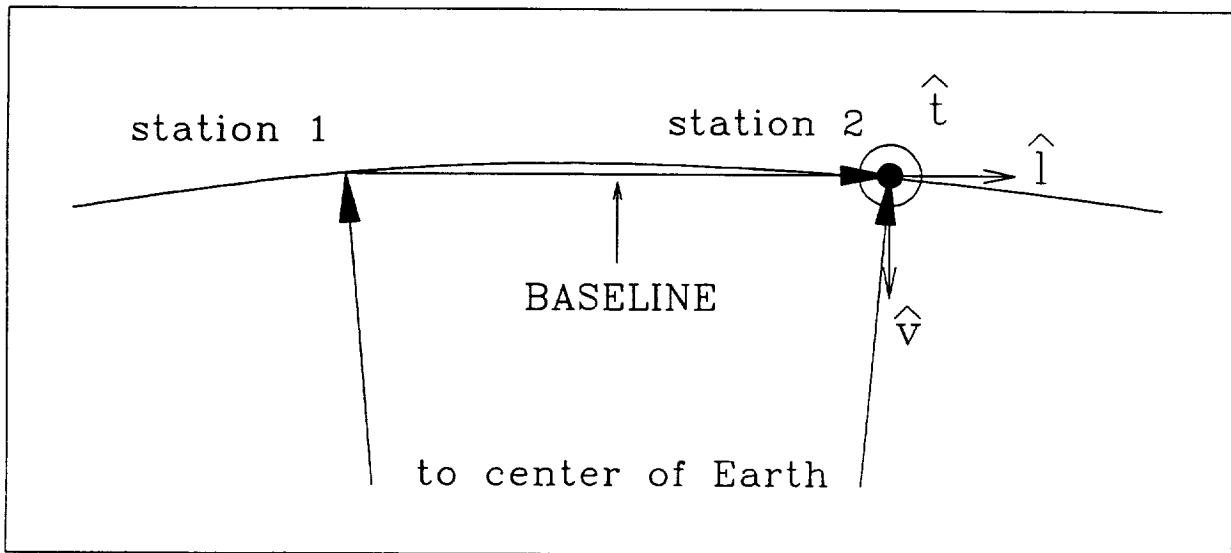


Figure 7. Baseline component axes. The figure is in the plane containing both the stations and the center of the Earth. Unit vectors \hat{l} , \hat{t} , and \hat{v} , for the length, transverse, and vertical components, respectively are shown at station 2. The unit vector in the transverse direction is directed outward from the page.

A positive change in the vertical component indicates an upward displacement of station 1 with respect to station 2. Note that a change in baseline length will also cause a change in the baseline vertical component, especially for longer baselines. The vertical component is the most poorly determined from VLBI data.

The transverse component is strongly dependent on a precise, consistent orientation of the terrestrial reference frame as defined in an EOP series. For the GLB868 solution the EOP series derived from solution GLB867 was applied. The baseline evolution plots for WESTFORD to GILCREEK, HRAS 085, and RICHMOND clearly show transverse rates that are larger than 25 times their respective errors. This is because the sites shared the motion of the North American Plate in the *a priori* model of the solution that produced the EOP series. Had the EOP series been generated in solution with no *a priori* North American plate motion these baselines would have shown little or no transverse motion. The uncertainties and correlations of the EOP values from GLB867 were propagated by GLOBL into the errors of the baseline components. The largest effect is on the transverse error. The vertical error, being dominated by other effects, is weakly affected and the length error is independent of orientation.

Summaries of the relevant statistics of the baseline components and their rates of change as determined from the results of solution GLB868 appear in Tables 6.1 through 6.4 in this report. These tables include the weighted mean baseline length values, the weighted rms scatter about the mean length values, and, where a useful value could be computed, the mean rate of change of baseline length over the span of the entire available data. The rate of change is not presented if there were fewer than five observing sessions or if the sessions did not span at least two years. The baseline length at January 1, 1988 is also tabulated for those baselines for which rates were determined. The least-squares mean and rate estimates were based on the $1-\sigma$ standard statistical errors of the individual baseline length values. The stated error for each mean and rate value was computed by scaling the $1-\sigma$ standard statistical error from the least-squares estimate by the square root of the reduced χ^2 of the fit. The weighted rms fit of the data about the best-fit line is also given where relevant. Similar information is given for the transverse and vertical components, except that the

mean and reference epoch values, being from an arbitrary origin, are omitted.

Section 7 (Figures 7-2 through 7-201 and Tables 7.202-7.557) present the time evolution of these same baselines. The baseline results are presented in print in several forms: summaries of baseline rates and consistency, plots of the three baseline components as functions of time with the line of best fit and a dashed line showing the motion predicted by NUVEL-1, and tables of values for baselines with an insufficient number of measurements for useful plotting. The machine-readable report contains all the baseline data arranged first alphabetically, then chronologically.

3. Earth Orientation Parameters

Earth orientation results from solution GLB867 are presented graphically in print and are tabulated with their correlations in the machine-readable version. Because VLBI cannot measure absolute Earth orientation, a reference day, November 22, 1985, was selected to fix the geographic pole and UT1 angle. The reference day X, Y, and UT1 values were linearly interpolated from the USNO concrete series, which is a daily series.

The results from single-baseline sessions (POLARIS and scattered others) are insensitive to Earth rotations around the baseline direction and therefore measure only two components of Earth rotation. These two components are linear combinations of UT1 and polar motion. To handle these sessions in a mathematically rigorous fashion, UT1 and both components of polar motion are estimated using weak constraints. The resulting EOP values, uncertainties, and correlations correctly represent the Earth rotation information content of the sessions. It is critical that users of the Earth rotation data from the single-baseline sessions account for not only the values and their uncertainties but also for the correlations.

The tabular values are the unmodified results from the GLB867 solution. In particular, no smoothing has been applied, and no corrections have been made to remove known tidal variations from the UT1 values. For comparison with IERS Bulletin B values or other smoothed series, the tidal terms should be removed from the UT1 values.

The nutation offsets from the IAU 1980 nutation series, estimated in solution GLB867 for each session,

are tabulated in the machine-readable version and are plotted in the printed report. These offsets are with respect to the celestial pole of the reference day November 22, 1985, which is defined by the conventional precession and nutation models.

D. Uncertainty of Estimated Parameters

The uncertainty for all estimated parameters are $1-\sigma$ standard statistical errors computed from the covariance matrix of the relevant solution. The weight applied to each observation includes three terms: SNR measurement error, ionosphere calibration error from the SNR of X- and S-band observations, and normalizing white noise root-sum-square added for each session. The last term is computed for each session such that the reduced χ^2 of the fit from a standard single-session solution is reduced to near unity. In the standard solution, site positions are estimated using a good *a priori* source catalog without adjustment and the continuous, piecewise-linear clock and atmosphere parametrization discussed above. It is evident from the χ^2 s of baseline components that the $1-\sigma$ standard statistical errors of the EOP are underestimates of the real errors.

V. DIFFERENCES WITH PAST RESULTS

Subtle changes in the manner in which the terrestrial reference frame was defined and the addition of another year of data have resulted in some noteworthy differences in the analysis results.

In solution GLB867 the more compact quasar radio source 0420-014 was used to define the origin of right ascension for the celestial reference frame, rather than the older standard, 3C273B used in previous solutions which has considerable structure resolvable on long baselines. The right ascensions are shifted although relative right ascensions are unchanged. Also, in past solutions, the orientation of the VLBI reference frame has been defined by the Earth orientation interpolated from BIH Circular D to the epochs of the observations of the EOP reference day November 6, 1986. In GLB867 a different reference day, November 22, 1985, was chosen as the VLBI EOP on that day have smaller errors, and the USNO Concrete series has replaced the BIH Circular D values.

These three changes result in a terrestrial reference frame that is rotated about the position of Westford

with respect to previously defined VLBI reference frames. As it may be desirable to transform the station positions in the terrestrial reference frame defined in GLB867 to a standard reference frame a least-squares adjustment was used to determine the seven-parameter transformation that minimizes the differences between the positions of those stations common to both GLB867 and the ITRF91. The seven parameters determined are a translation, three rotations about the origin, and a scale change whose values are presented below:

Transformation from GLB867 to ITRF91		
	Translation (mm)	Rotation (10^{-9} radians)
X	127.1 ± 2.8	-6.39 ± 0.56
Y	12.8 ± 2.8	2.17 ± 0.55
Z	-34.0 ± 2.7	17.0 ± 0.30
Scale change = $-1.16 \pm .34$ ppb		

Applying this transformation to the GLB867 1988.0 positions moves them to the ITRF91. Additionally, a comparison of the total velocities estimated in GLB867 with those estimated in GLB753 from the last annual report reveals several small but marginally significant ($2-3 \sigma$) differences for many stations with several years of data. These differences remain in a test solution that uses the ensemble of data gathered through 1991 with the same constraints as in GLB753, but are greatly reduced when the same constraints are applied but the 1991 data omitted. The velocity of SEATTLE1 whose first occupation was within a weak network is poorly defined because of the single solution defining the reference frame.

VI. QUALITY OF RESULTS

A. Trends in Quality Improvement

In the last two issues of the CDP VLBI annual report (Caprette *et al.*, 1990, and Ma *et al.*, 1992) we discussed the quality of the raw Mark III observations and the results obtained with them. This section updates those discussions. We assume that the reader is already familiar with the terms used here.

1. Post-fit Delay Residuals

Figure 8 is a plot of the post-fit weighted rms residual delay (*wrmsrd*) for the 1648 one-day observing sessions of global solution GLB868. The + symbols are the *wrmsrds* for each session and the connected points are 120-day boxcar averages of the *wrmsrds*. Figures 9, 10, 11, and 12 show the results for the IRIS-A, CDP-fixed, NAVNET, and CDP mobile sessions, respectively. The sections of Figure 8 spanning 1980-89 and 1980-90 show the same data as the comparable figures in the 1990 and 1991 annual reports, respectively. The current results for these observing sessions are nearly identical to those in the earlier reports; changes in the analysis in the

intervening year have no effect on the results in any way visible in these figures. As early as 1985 there is a pattern in the *wrmsrd* with a minimum in the (northern hemisphere) winter and a maximum in the summer. The conventional explanation is that increased water vapor and relatively unsettled weather conditions during the summer cause large, difficult-to-model fluctuations in the tropospheric delay. Northern hemisphere considerations are dominant because only four sites are in the southern hemisphere and on a per station basis these sites contribute much less data than many sites in the northern hemisphere. The *wrmsrd* has minima in January, 1989 and January, 1990. As was seen in last year's annual report the results for 1990 are poorer than those for the comparable period of the previous year. We stated that the cause of the poorer *wrmsrd* was not degraded performance by the stations but changes in observing strategy and more complicated networks. (Ma *et al.*, 1992) We also stated that these changes had been fully realized and that the trend of increasing *wrmsrd* should cease. We now have the actual results for 1991. Our prediction was incorrect. The NAVNET and CDP-mobile plots results were slightly better, the CDP-fixed-site results were slightly poorer, and the IRIS-A were noticeable poorer. We

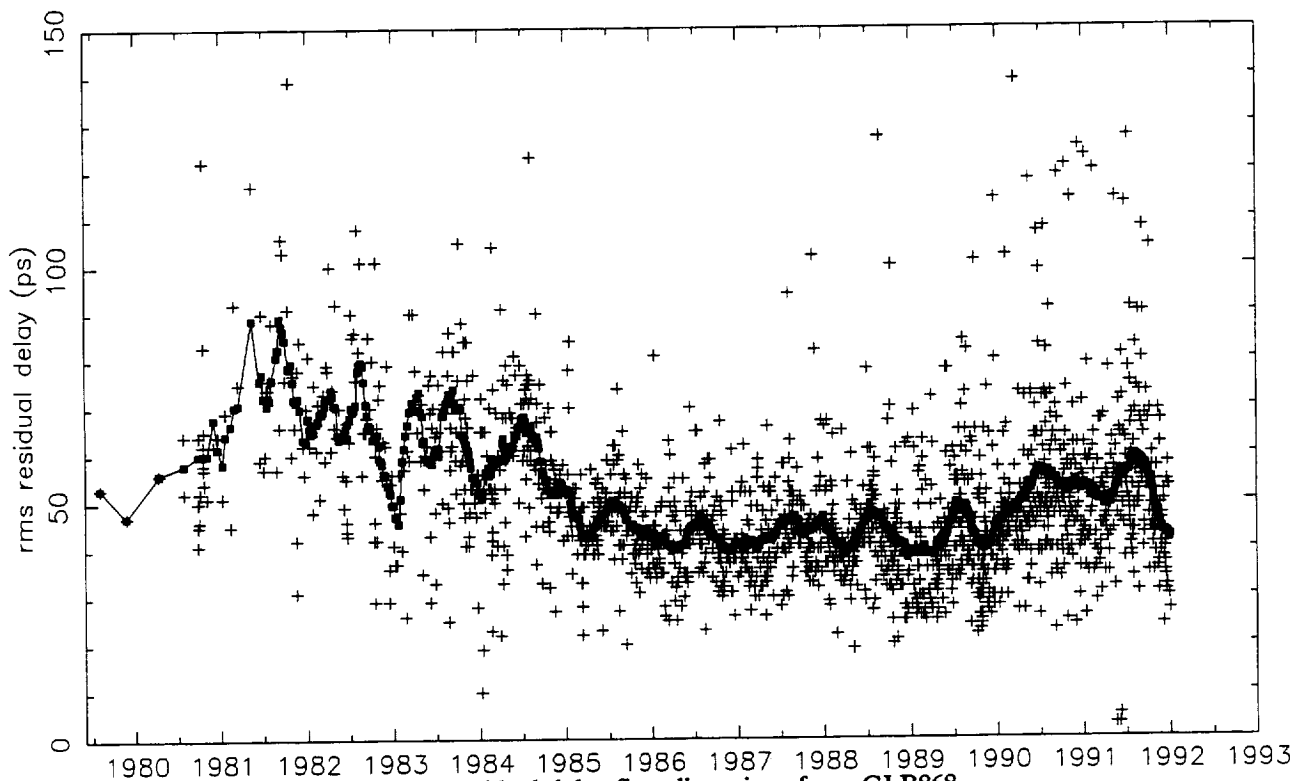


Figure 8. Residual delay fits, all sessions from GLB868.

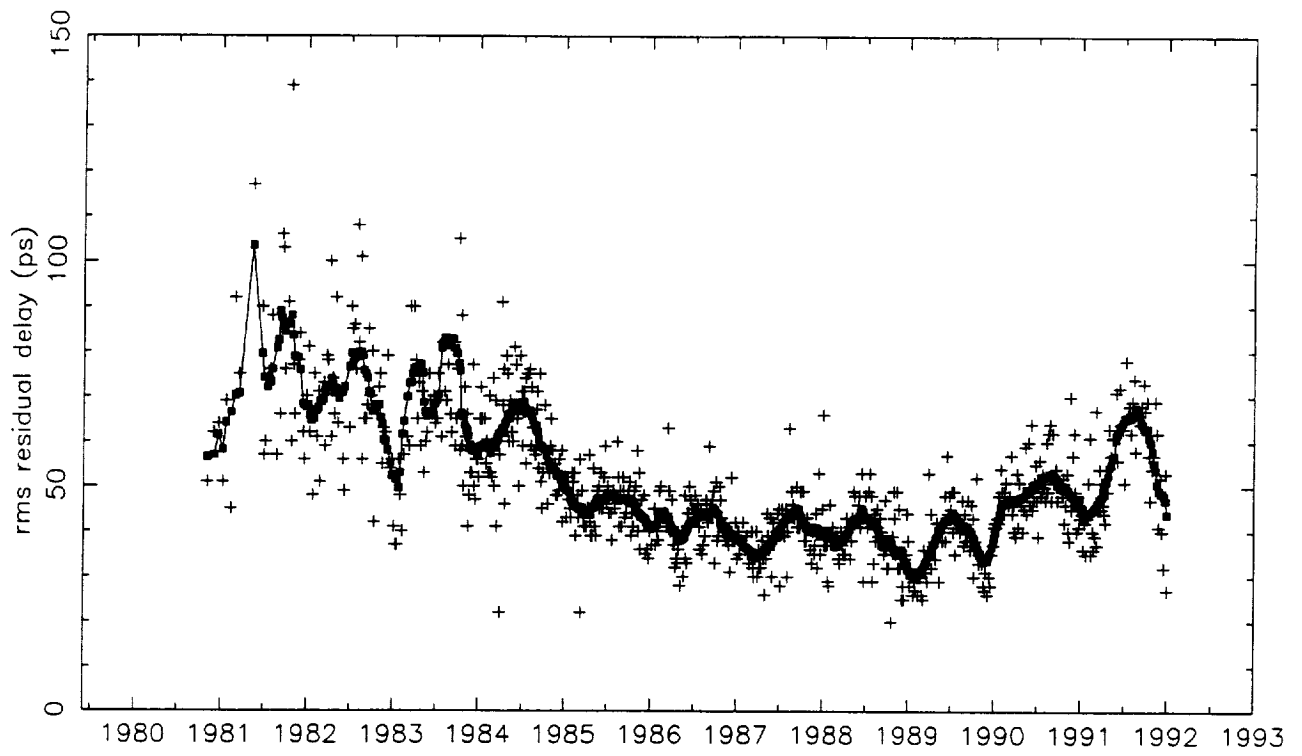


Figure 9. Residual delay fits from GLB868, POLARIS and IRIS sessions only.

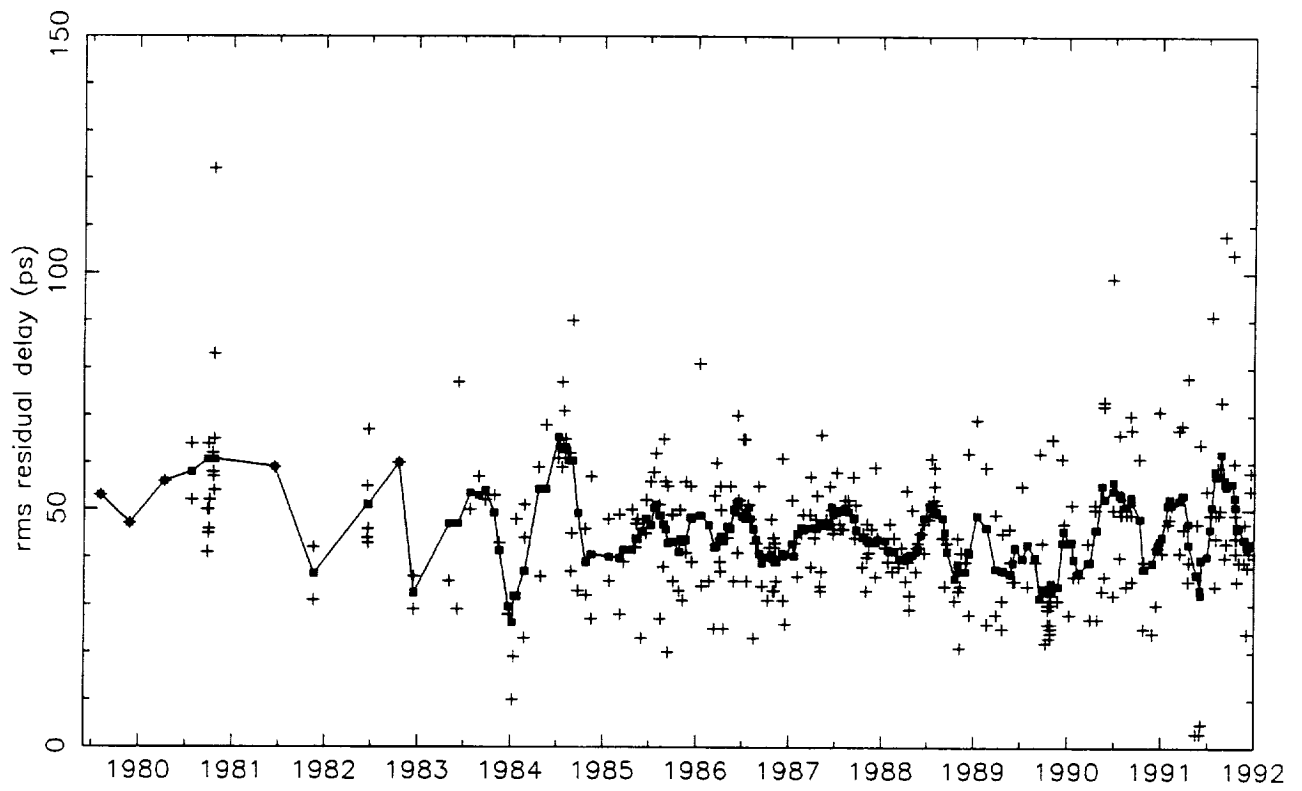


Figure 10. Residual delay fits from GLB868, CDP fixed stations only.

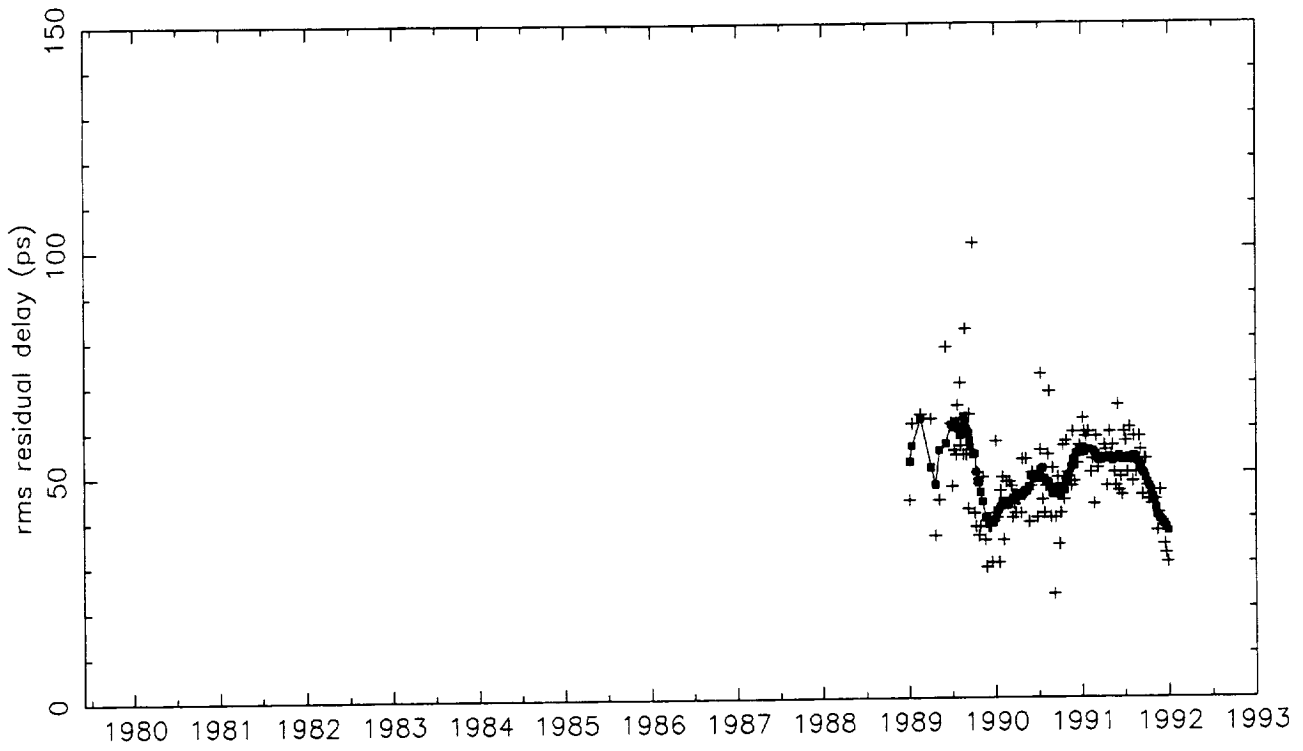


Figure 11. Residual delay fits from GLB868, USNO sessions only.

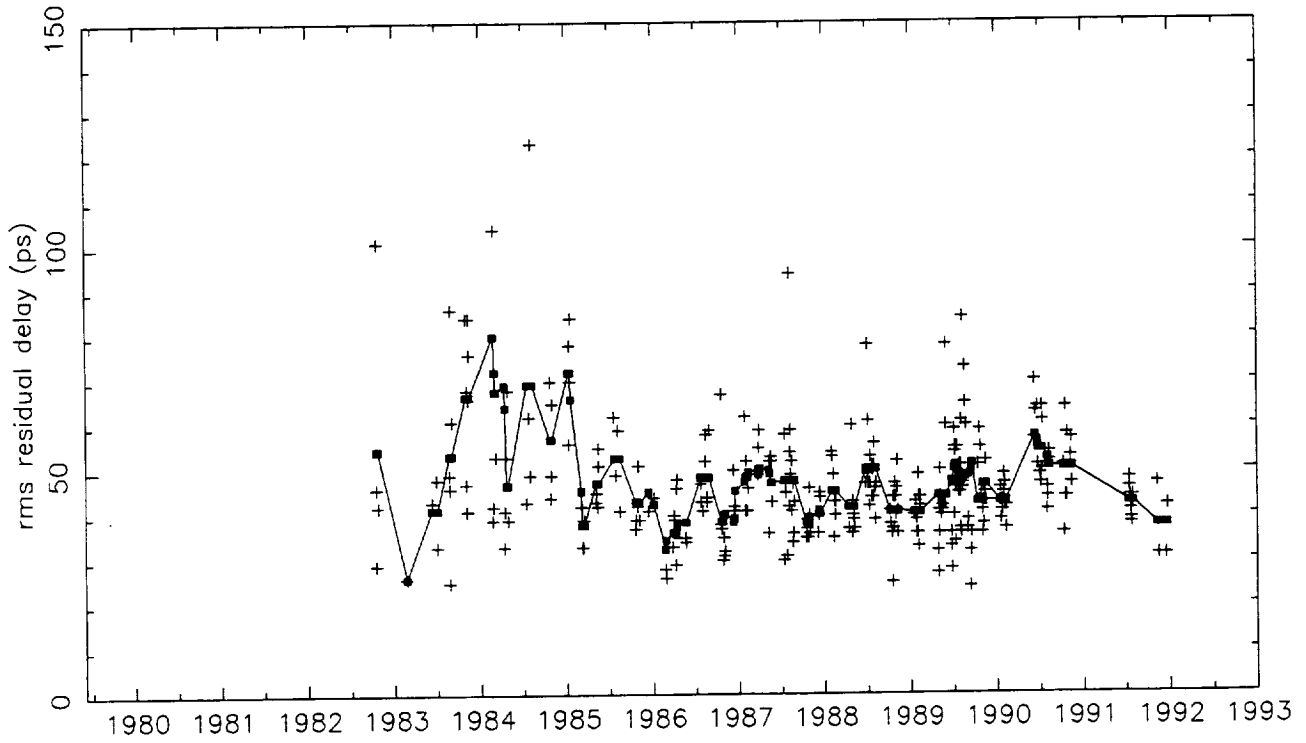


Figure 12. Residual delay fits from GLB868, CDP mobile sessions only.

have examined the 1991 IRIS-A data to determine why *wmsrd* should have increased so much during the summer. While we have no explanation we note that in this period AUTOSKED came into use to generate the IRIS-A observing schedules resulting in a significant increase in the number of observations per session. If Figure 9 is replotted using the *wmsrd* normalized by the square root of the number of observations per session the increases seen in both 1990 and 1991 are eliminated. Finally, despite the increased *wmsrd* there is no evidence that the geodetic parameters estimated in 1991 from the IRIS-A data are in any way degraded.

The purpose of this discussion of *wmsrd* when it first appeared in an annual report two years ago was to document the improving precision of the raw Mark III observations. The continuously declining *wmsrd* of the early 1980's seen in the IRIS-A and mobile plots document that improvement. But, since 1986 or 1987 the precision of the observations has ceased to be the dominant contributor to *wmsrd*; rather it is the inability to model rapid variations in the atmosphere. Unless there is some unexpected breakthrough in modeling atmospheric effects the *wmsrd* is unlikely to become substantially better regardless of improved precision of the raw observations. Moreover, the new antennas that are both more sensitive and slew faster (e.g. the VLBA and the new Hawaii antenna) will result in faster schedules with less time between observations, which are inherently harder to fit than the relatively slow schedules of a few years ago. Thus, this discussion has ceased to serve its intended purpose and we do not plan to continue it in future reports.

2. Baseline Length Repeatability and Errors in Baseline Length

Figure 13 is a plot of the $1-\sigma$ standard statistical length error and length repeatability for the Westford-Wettzell baseline. It is designed to address two questions. First, as the Mark III hardware and observing strategies have changed, have the errors of the lengths become smaller? Second, if errors have decreased, is there a corresponding improvement in the length repeatability? In Figure 13 the diamonds plot the baseline length errors for the individual sessions. Each asterisk is an unweighted average of the errors of each session in a 120-day-long window centered on the epoch of the session, excluding sessions with length errors in excess of 50 mm. These

averages show the long term evolution of the errors. The solid line connects points (not plotted) that are the repeatability of the length values.

The repeatability was computed as follows: For each session a weighted average length was computed from the lengths for all sessions within 60 days of the session. Using the same sessions a weighted rms length residual from the average length was computed. This rms is an estimate of the short term length repeatability at the epoch of the session.

Figure 13 is comparable to Figure 13 from last year's report. Except the 1987 data and the additional year of data, the plots are similar. Since the data used in the 1991 report are a subset of this year's report one would expect the two plots to be identical where they overlap. They are not because there have been a few small changes in the analysis procedures since last year. We have looked for an explanation for the poorer short term repeatability in 1987, an increase from a peak of 16 ps to a peak of 19 ps. A careful review of the session-by-session length values shows that in GLB868 there are a few sessions with discordant lengths that were not discordant last year. Because of the 120-day-wide window of the boxcar repeatability algorithm these few dominate the repeatability of the entire period. From 1984 through early 1987 the average of the length errors and the repeatability are consistent and show a general improvement from 20 to 25 mm in 1984 to near 15 mm in early 1987. The repeatability then rapidly increases to near 20 mm. In the middle of 1987 the repeatability starts an improvement lasting until early 1989. Then the errors are near 8 mm and the repeatability is near 10 mm. During the entire period after 1987 the averages of the length errors are consistently smaller than the repeatability. After 1989 the errors and repeatability trend up and down over periods of months, but there is no long term trend. There is no evidence that the results have improved since 1989.

Figures 14 and 15 are similar plots for the Richmond-Westford and Onsala-Wettzell baselines. They show trends in 1991 that are not substantively different from those of 1989 and 1990.

In summary, these plots show that the short term baseline length repeatability in 1991 was nearly identical to that in 1989 and 1990. As we stated in last year's report, to obtain further improvements will

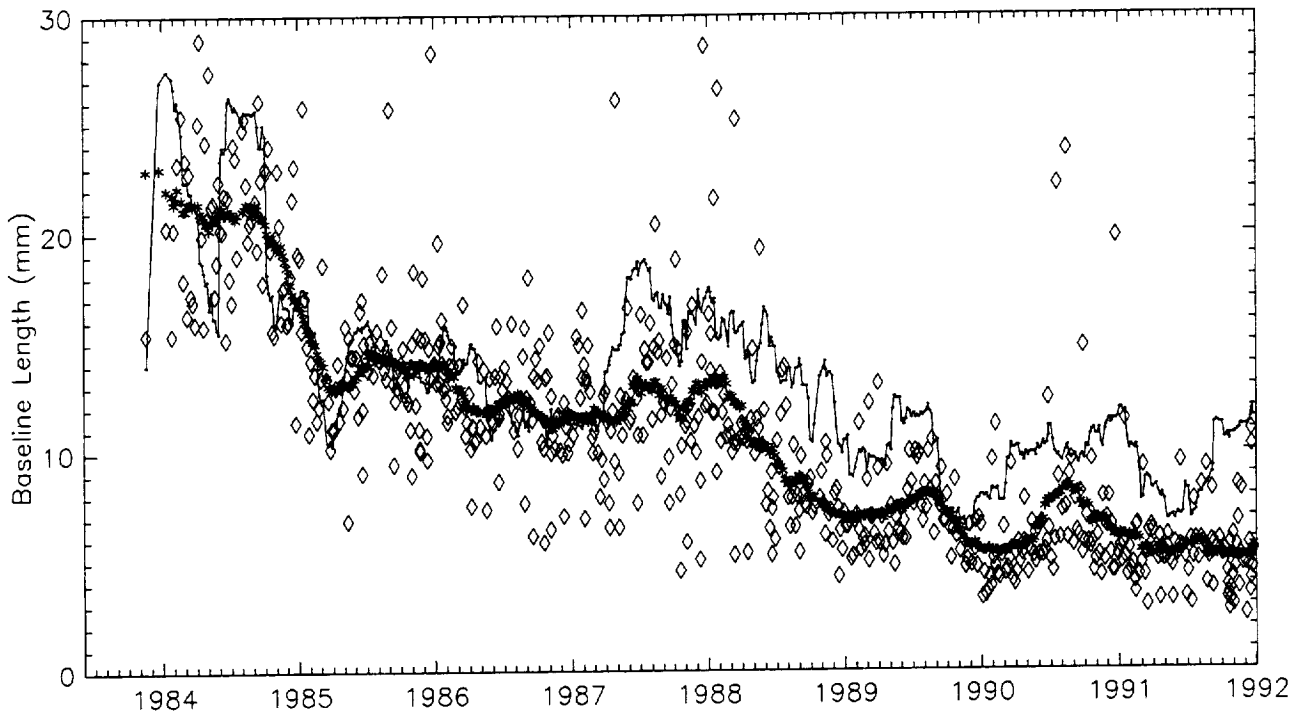


Figure 13. WESTFORD to WETTZELL baseline length 1- σ standard statistical errors and repeatability.

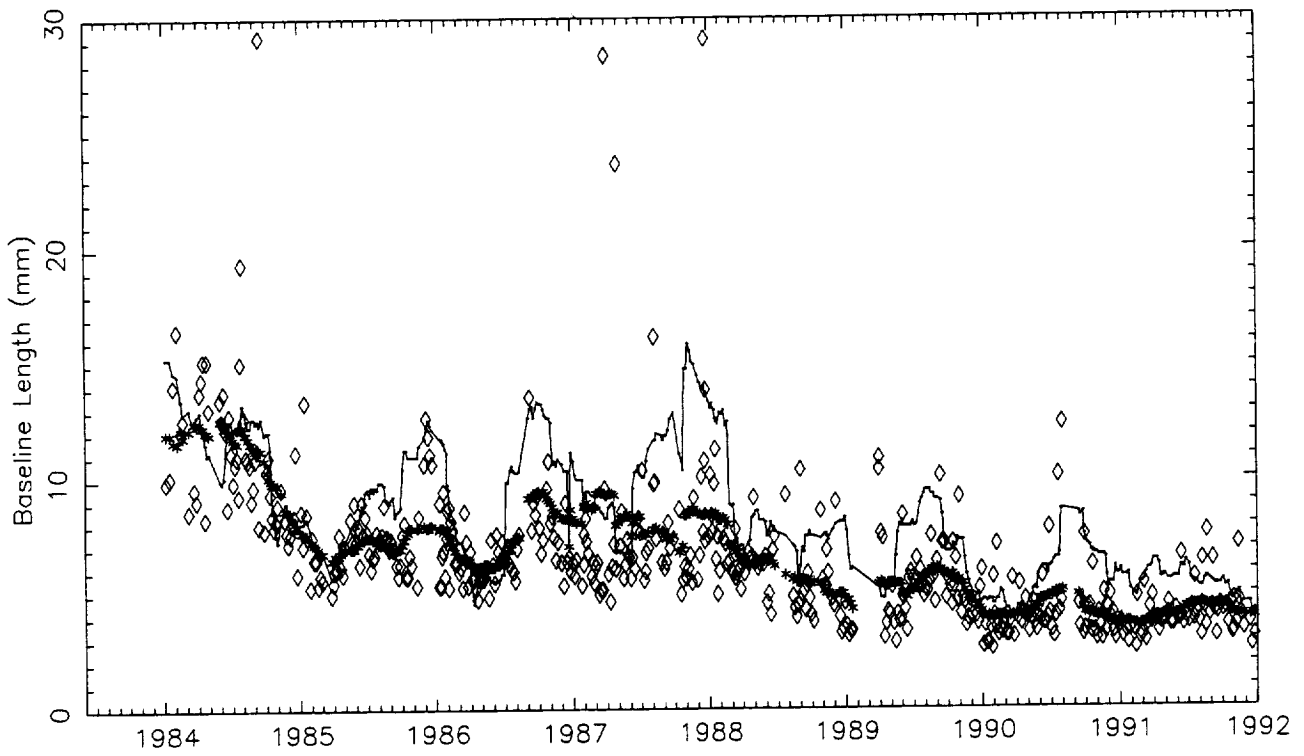


Figure 14. RICHMOND to WESTFORD baseline length 1- σ standard statistical errors and repeatability.

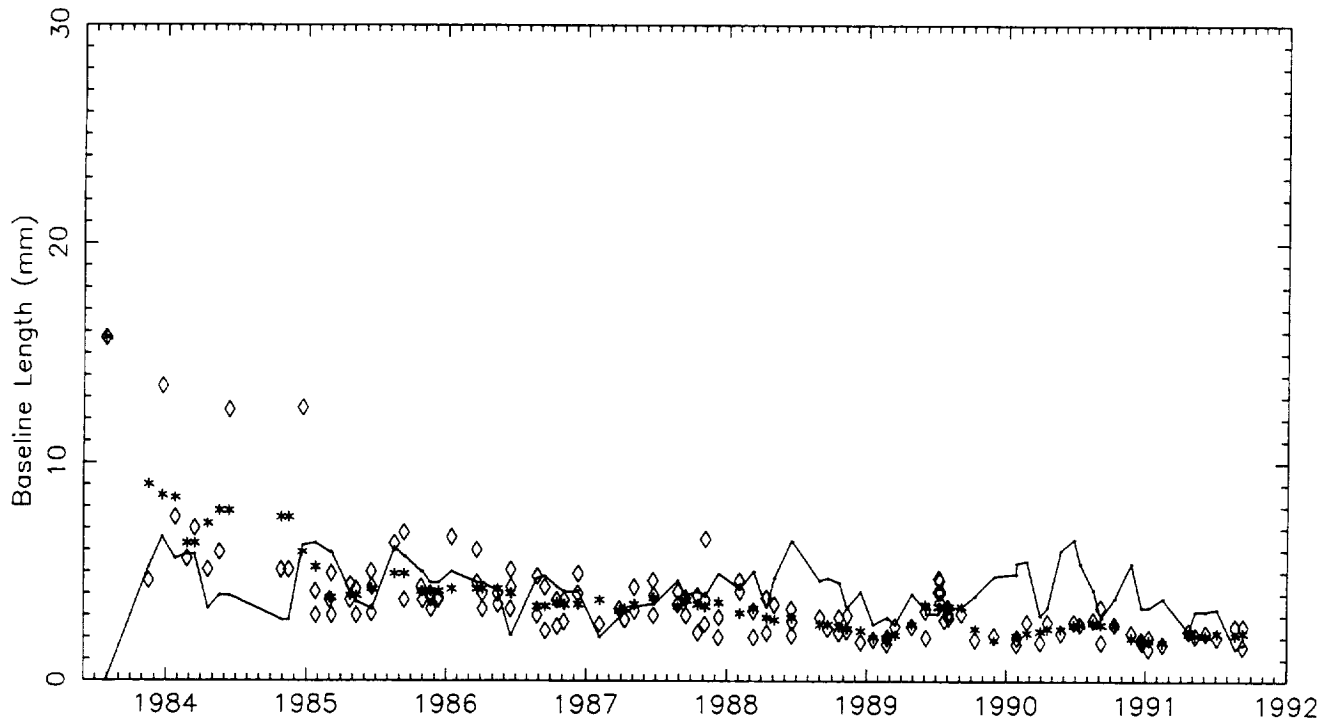


Figure 15. ONSALA60 to WETTZELL baseline length 1- σ standard statistical errors and repeatability.

likely require a much better understanding of the effects of tropospheric refraction and/or better instrumentation (such as the Mark IV).

B. Scaling of Baseline Repeatability with Baseline Length

In the previous two annual reports we presented sets of baseline length repeatability scaling laws in a form that is the sum of two terms. The first term is a zero set term that is the repeatability of a zero length baseline and the second, the scaling term, tracks how repeatability grows linearly with baseline length. We also gave three different laws for three ranges of lengths because we found that the repeatability of the very longest baselines was disproportionately poorer compared to the shorter baselines and would dominate the scaling term despite their relatively few numbers. The table below shows the scaling laws from the 1990 and 1991 reports and the current results.

With only a single insignificant exception, the zero set and scaling terms in the current results are at least as good as in the previous two years. The scaling term for the full range is 0.2 ppb better than the previous

Length Range (km)	Zero Set (mm)			Scaling Term ppb		
	1990 Report	1991 Report	1992 Report	1990 Report	1991 Report	1992 Report
0-6000	6.8	6.6	6.3	1.1	1.0	1.0
0-10000	5.0	5.3	5.1	2.0	2.0	2.0
Full Range	4.9	5.1	4.9	2.2	2.2	2.0

two years and reflects the outstanding new data that has been produced on some long baselines such as Kashima-Richmond.

Figure 16 is a plot of the length repeatability values as a function of baseline length for the 212 baselines used to produce the scaling laws. These were selected because each had at least five observing sessions and two years of data.

Since it is difficult compare Figure 16 with the comparable figure from the 1991 report we have prepared Figure 17. It is a plot of the repeatability differences for the 186 baselines common to both plots. It shows that there are 85 baselines with better repeatability in the current solution, 93 baselines with better repeatability in the 1991 solution, and 8 with no difference (at the level of 0.1 mm). The average repeatability for all baselines of the current solution is

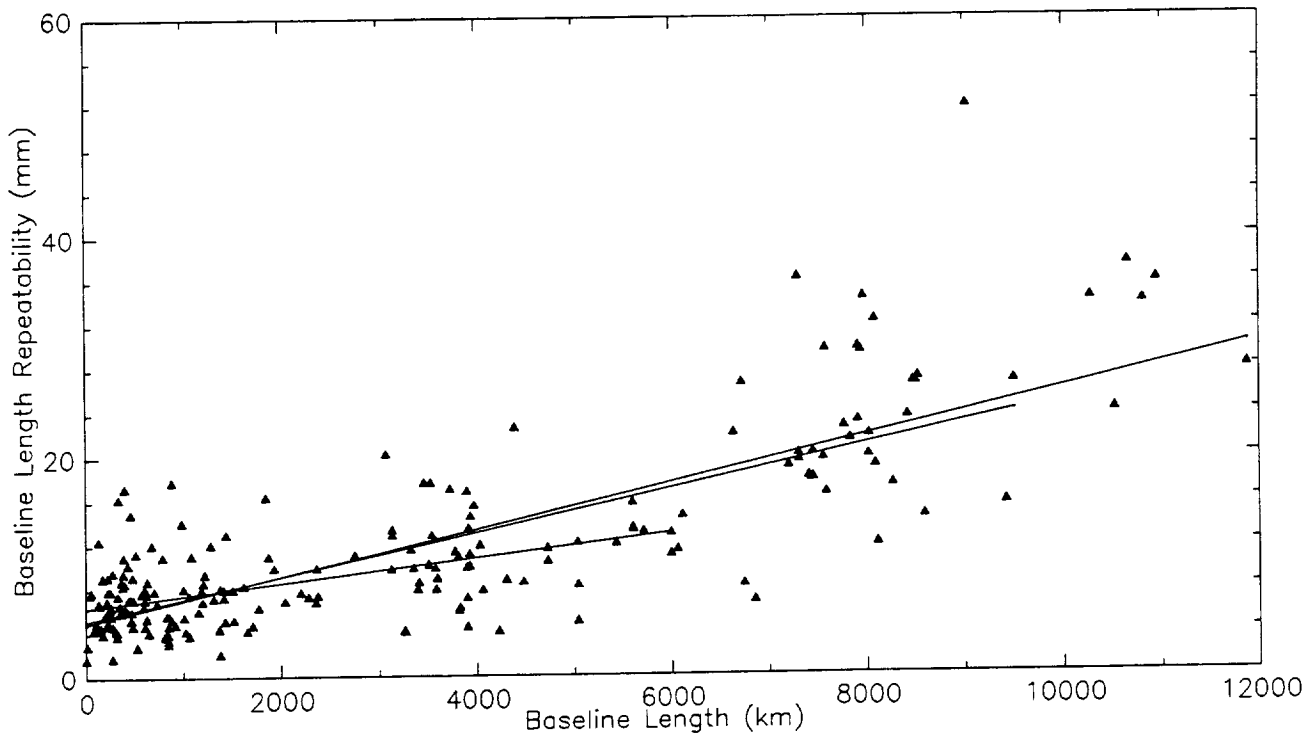


Figure 16. Baseline length repeatability vs. baseline length from GLB868.

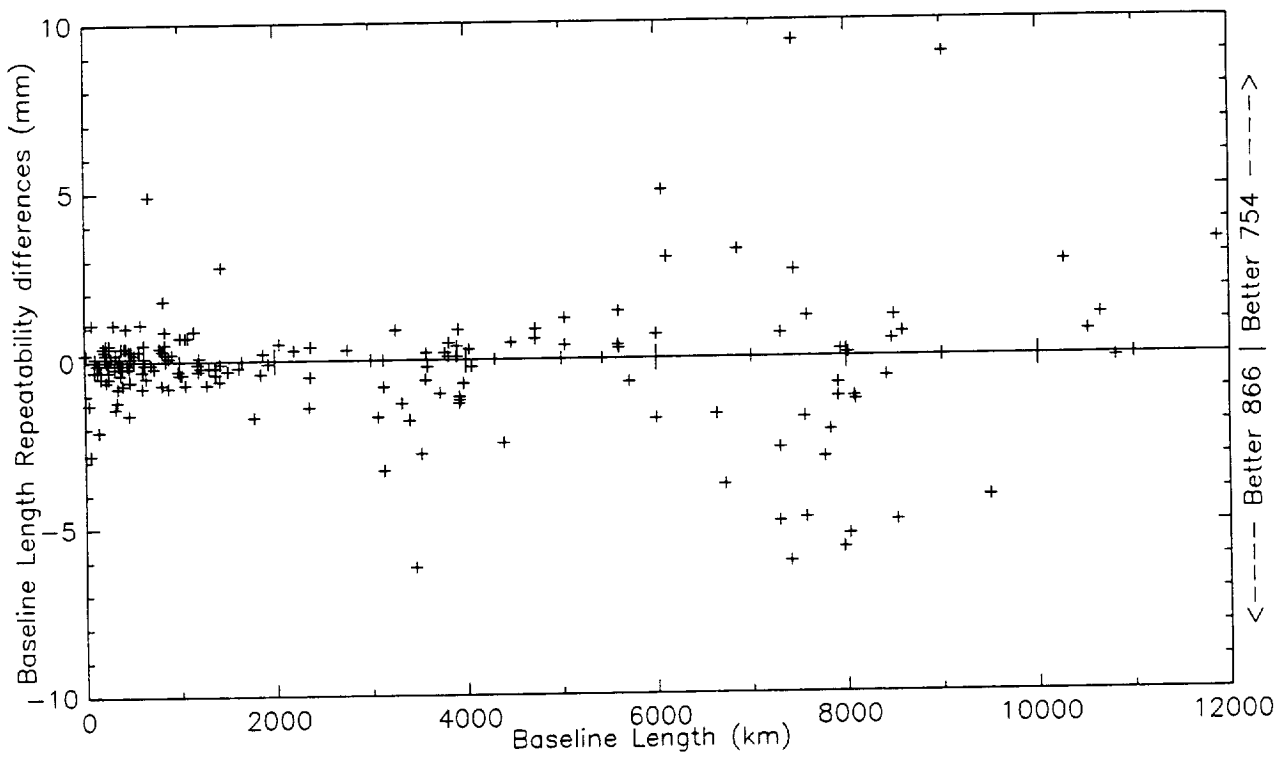


Figure 17. Repeatability differences for 186 baselines common to both the 1991 and the 1990 solution.

14.1 mm while that of 1991 solution is 14.0 mm. This difference is not significant.

C. An Anomaly - the Motions of Onsala and Wettzell

In Section 7 Plots 7.201, 7.175, 7.197, and 7.174 display the baseline results for the Westford-Wettzell, Westford-Onsala, Richmond-Wettzell, and Richmond-Onsala baselines, respectively. The measurements of these baselines are among the most robust in the Mark III data set. The Wettzell, Richmond, and Westford sites are part of the core IRIS-A Earth rotation network and have been participating in Mark III sessions every five or seven days since the earlier to mid-1980's. Onsala has participated in IRIS-A monthly since its inception and has participated in many CDP transatlantic sessions.

The reader should take time now to look at Plot 7.201, the Westford-Wettzell plot. The length plot shows an increasing length at a rate of 17.2 ± 0.2 mm/yr while the expected NUVEL-1 rate is 18.9 ± 0.5 mm/yr. The difference is 1.7 mm/yr and is a $3\text{-}\sigma$ discrepancy (based only the rss of the VLBI and NUVEL-1 errors). But, the plot hides a much larger anomaly: the rates in the first and second halves of the plot are systematically and significantly different. The same is true of the other three plots.

The table below documents this anomaly. It contains the estimated rates on these baselines and their $1\text{-}\sigma$ standard statistical errors scaled by the square root of the reduced chi square of the linear fit from the entire data span and from two subsets. The numbers in parentheses are the differences between the observed rates and expected NUVEL-1 rates. The subsets were created by dividing the data at 1988.0. Note that the stations were added to the network at different times so these baseline rates span different times.

Data Span	Baseline Length Rates of Change			
	Westford-Wettzell mm/y	Westford-Onsala60 mm/y	Richmond-Wettzell mm/y	Richmond-Onsala60 mm/y
start-1988	15.1 ± 0.7 (-3.8)	12.6 ± 1.0 (-5.0)	9.7 ± 1.5 (-7.4)	7.8 ± 4.5 (-8.0)
1988-92	19.4 ± 0.5 (+0.5)	23.3 ± 1.3 (+5.7)	17.0 ± 0.9 (-0.1)	22.2 ± 3.0 (+6.4)
start-1992	17.2 ± 0.2 (-1.7)	17.2 ± 0.5 (-0.4)	14.2 ± 0.4 (-2.9)	16.0 ± 1.5 (+0.2)

The difference in rate for the Westford-Wettzell

baseline between the first and second halves is 4.3 mm/yr, which is approximately 5σ . The Westford-Onsala difference is 10.7 mm, which is more than 7σ . The Richmond baselines are similarly discrepant.

To probe this anomaly further we have prepared baseline length residual plots for these four baselines. They are Figures 18 to 21. In these plots the horizontal axis is session date. The points are the baseline length residuals from a weighted linear fit; errors are not plotted. The solid line tracks points (not plotted) that are the weighted average residual in a window ± 60 days about each session. The line shows the average trend of the residuals.

Consider Figure 18, the Westford-Wettzell plot. Setting aside the edge effect at the beginning of the plot, the residuals trend lower from 1984 through mid-1988 and then trend higher. (After 1988 there is also a clear periodic effect with an amplitude of 10-15 mm, which will not be addressed here.) Figure 19, the Westford-Onsala plot, shows the pattern even more clearly, except that the minimum appears to be at the beginning of 1987. The Richmond plots show similar trends.

For long baselines, such as the transatlantic, changes in station vertical would appear as somewhat smaller changes in baseline length. Thus, the cause of these baseline length anomalies could be local motion of the stations in the horizontal plane or in the vertical direction. Figures 22 and 24 are local topocentric (up, east, and north) plots for Wettzell and Onsala, respectively. For each session the plots show the estimated position of the site as a correction from its *a priori* position. Because the estimated topocentric values for a site from a particular session depend critically on the unadjusted reference site for that session, we have plotted only the IRIS-A sessions. Westford was the reference site for these sessions. Also shown in each plot is a straight line derived from a weighted linear fit to the data and a (difficult-to-see) line which plots the value from a weighted boxcar filter with a one-year window. As with the plots of baseline lengths it is difficult to see systematic departures from linear evolution, but these plots serve to introduce the final two plots in this section, Figures 23 and 25. These are plots of the residual topocentric positions as adjustments from the straight lines in the previous two plots. Also, we have increased the resolution of the scale by a factor of four and have

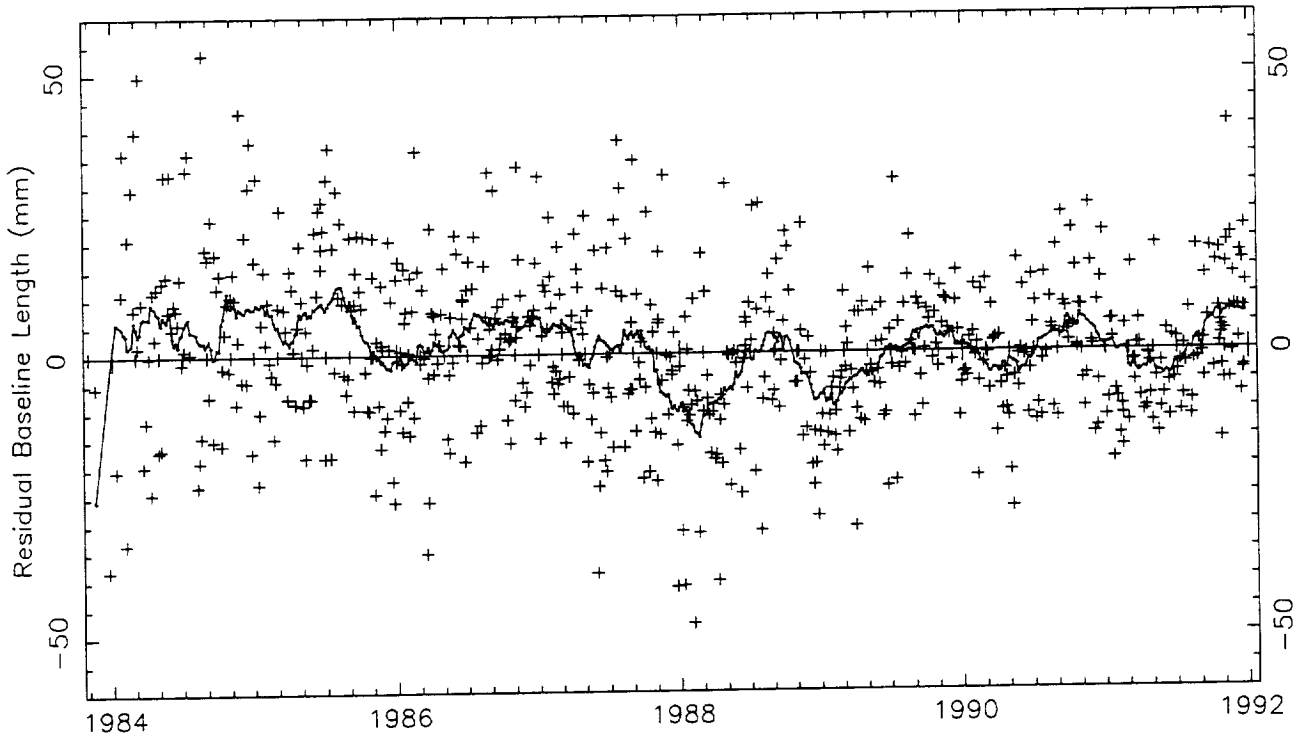


Figure 18. WESTFORD to WETZELL baseline length residuals.

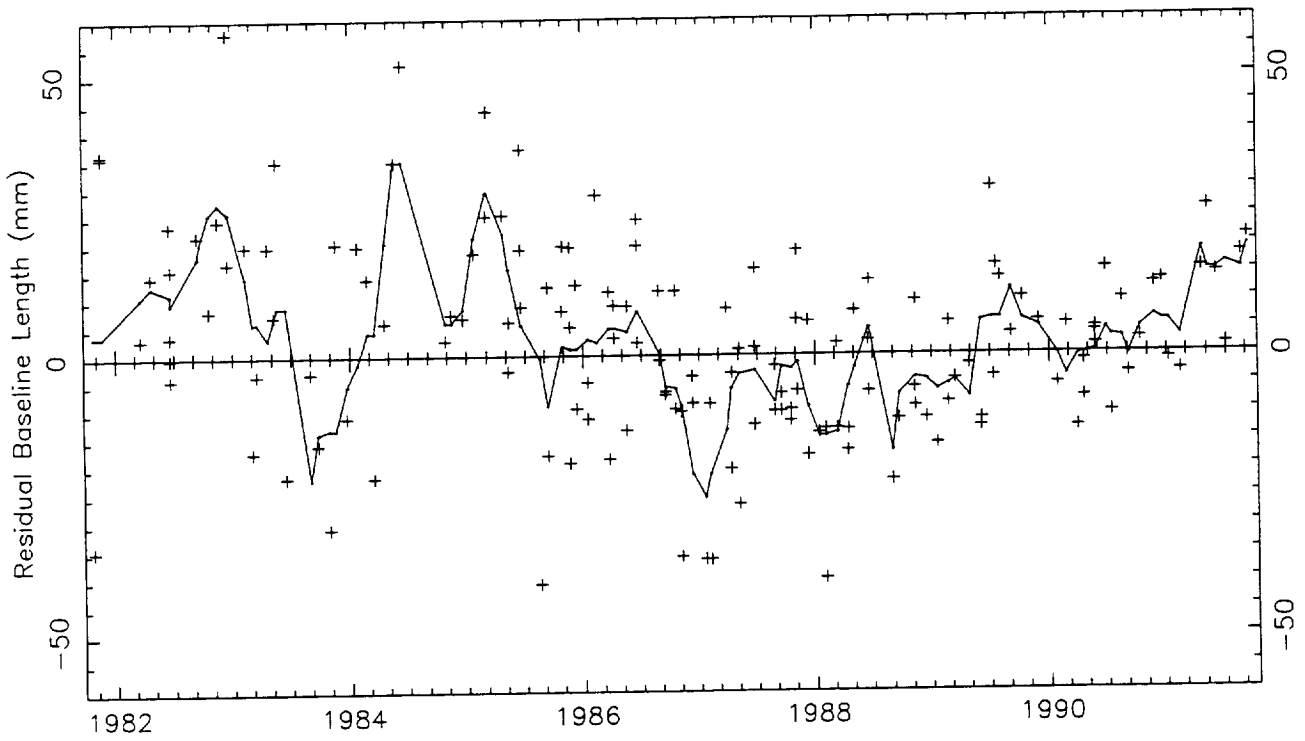


Figure 19. WESTFORD to ONSALA60 baseline length residuals.

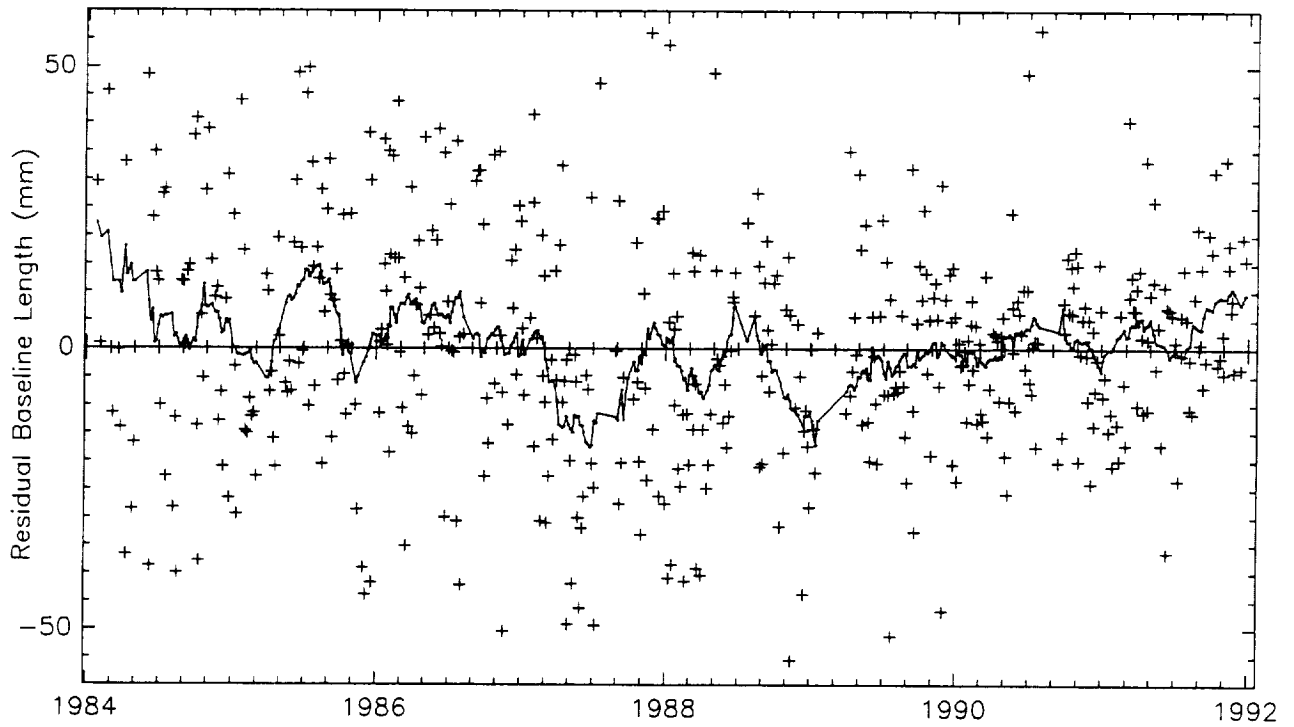


Figure 20. RICHMOND to WETTZELL baseline length residuals.

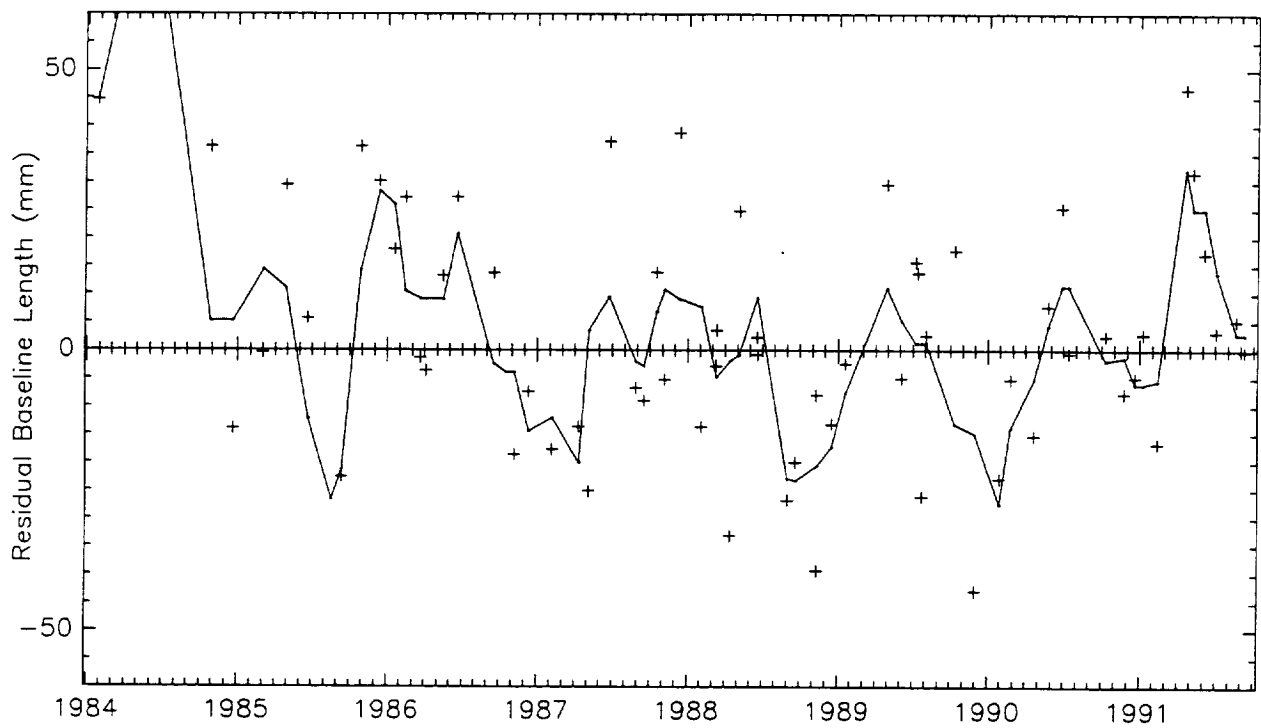


Figure 21. RICHMOND to ONSALA60 baseline length residuals.

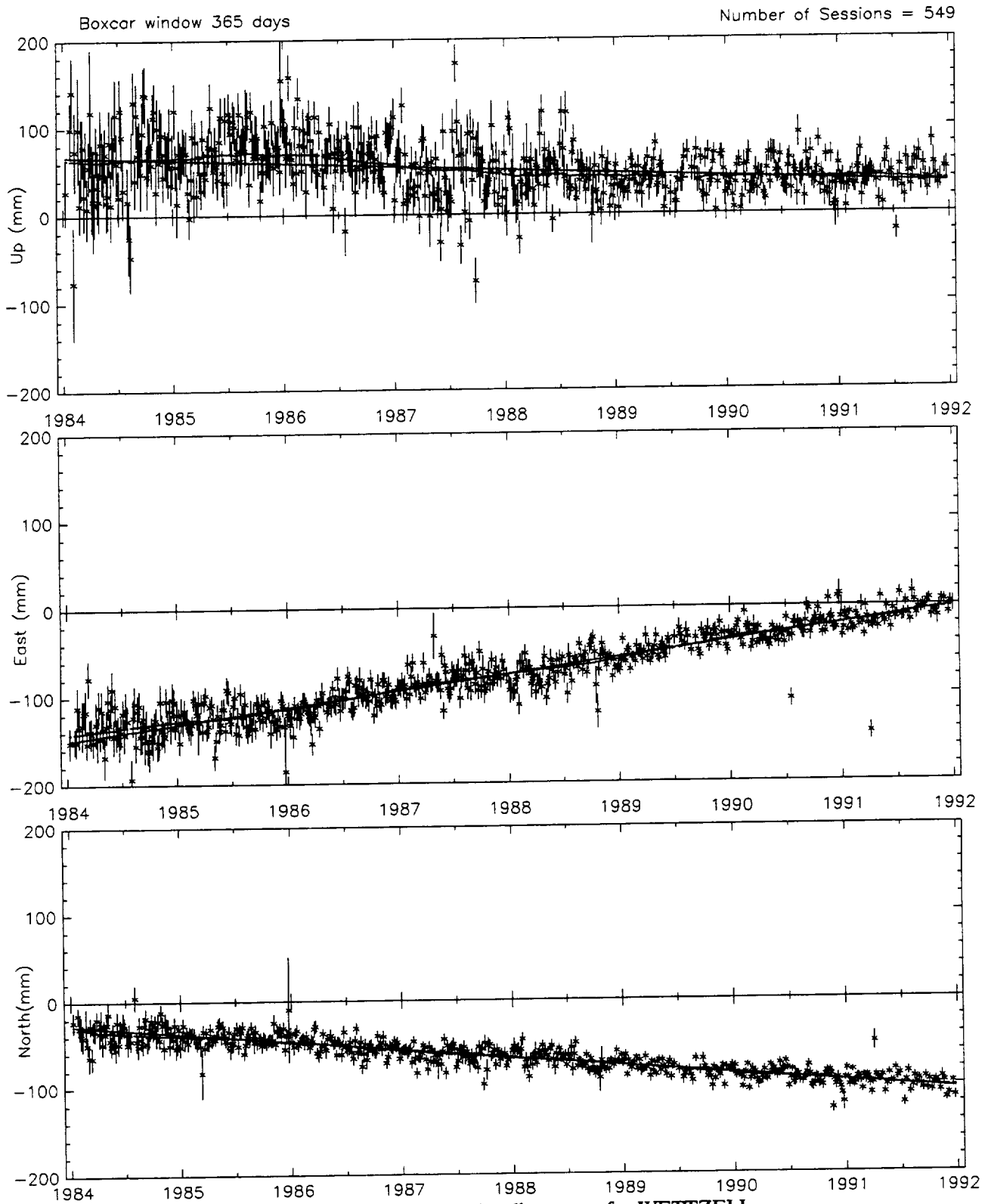


Figure 22. Local topocentric adjustments for WETTZELL

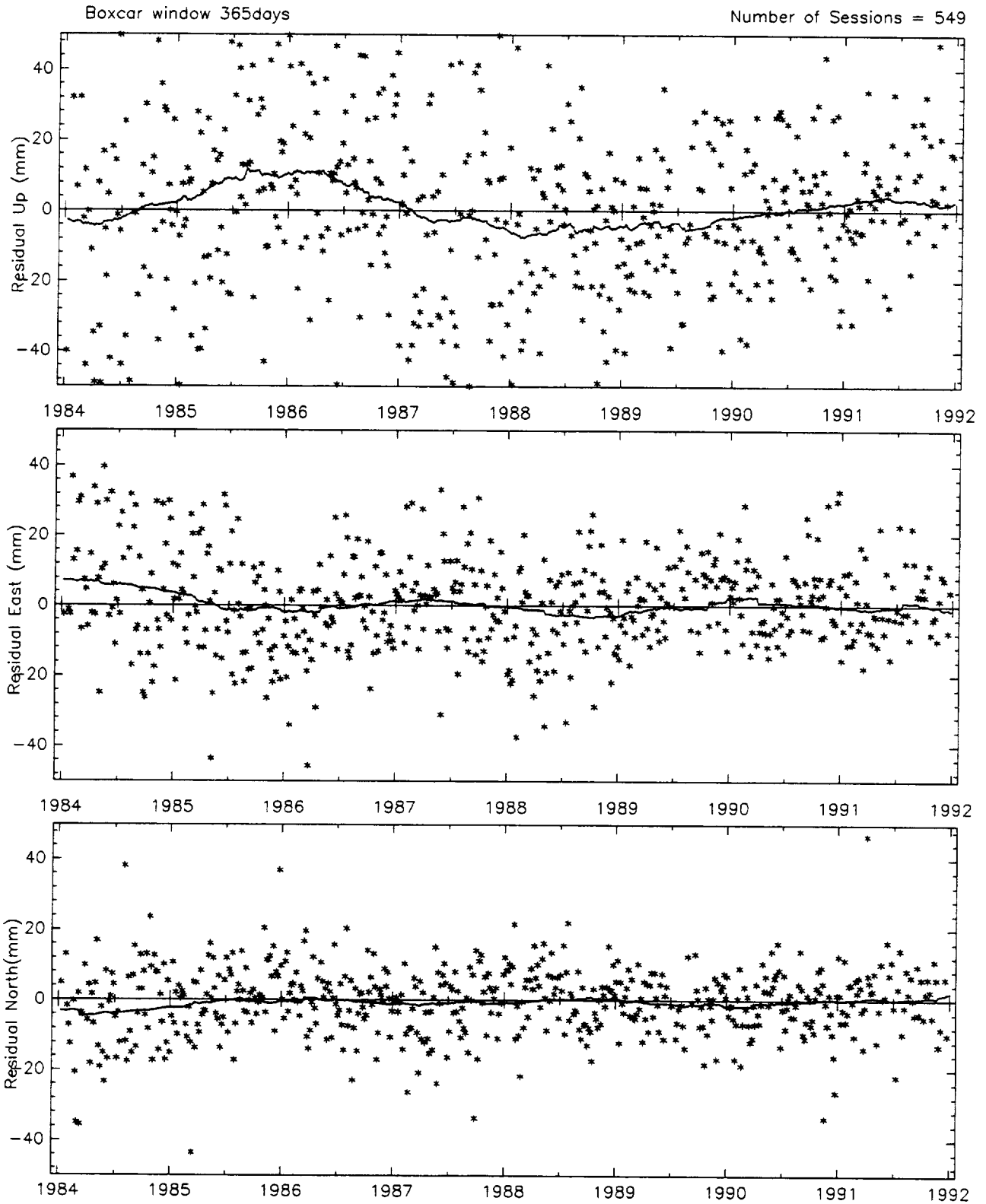


Figure 23. Local topocentric adjustment residuals for WETZELL

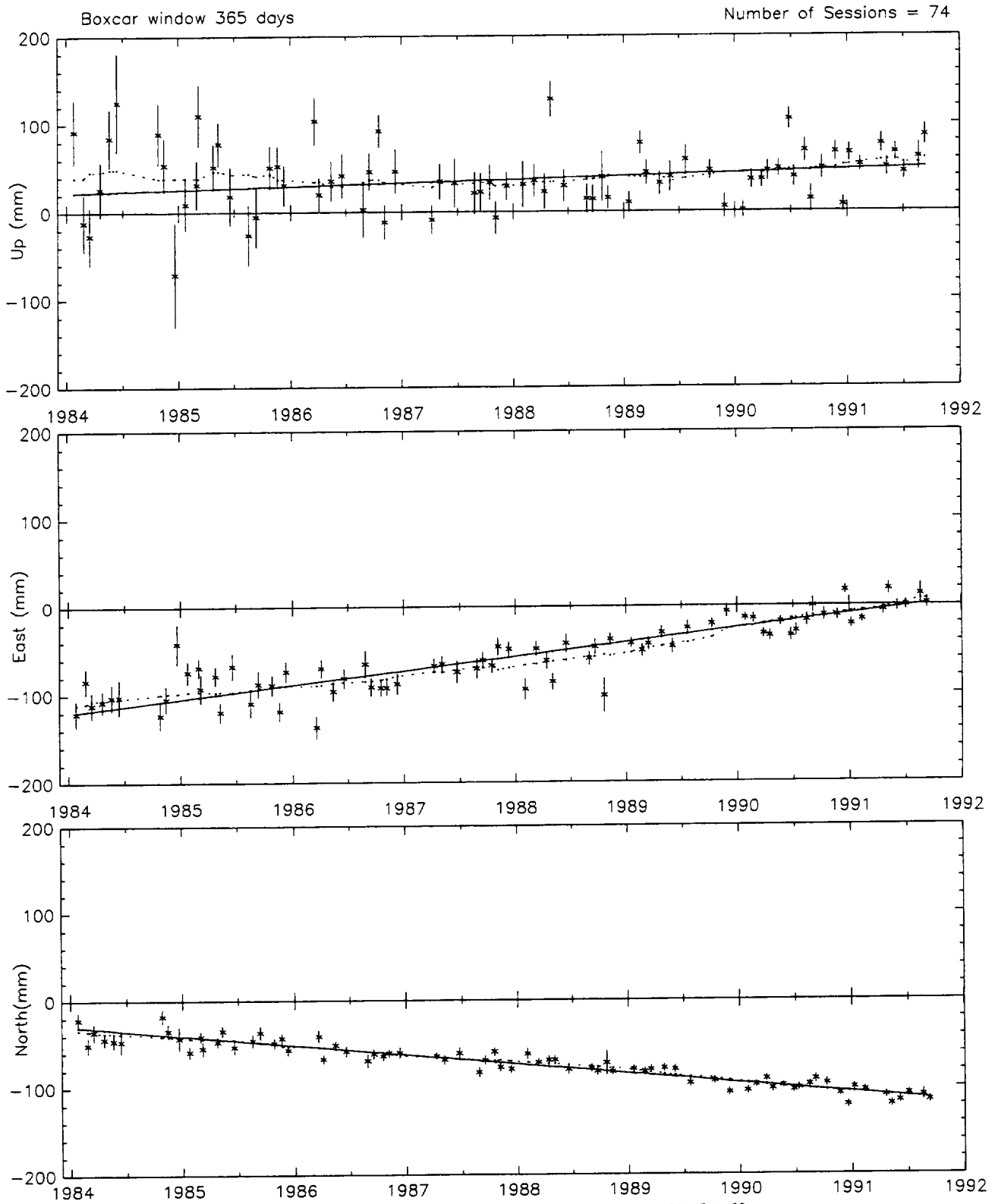


Figure 24. Local Topocentric adjustments for ONSALA60.

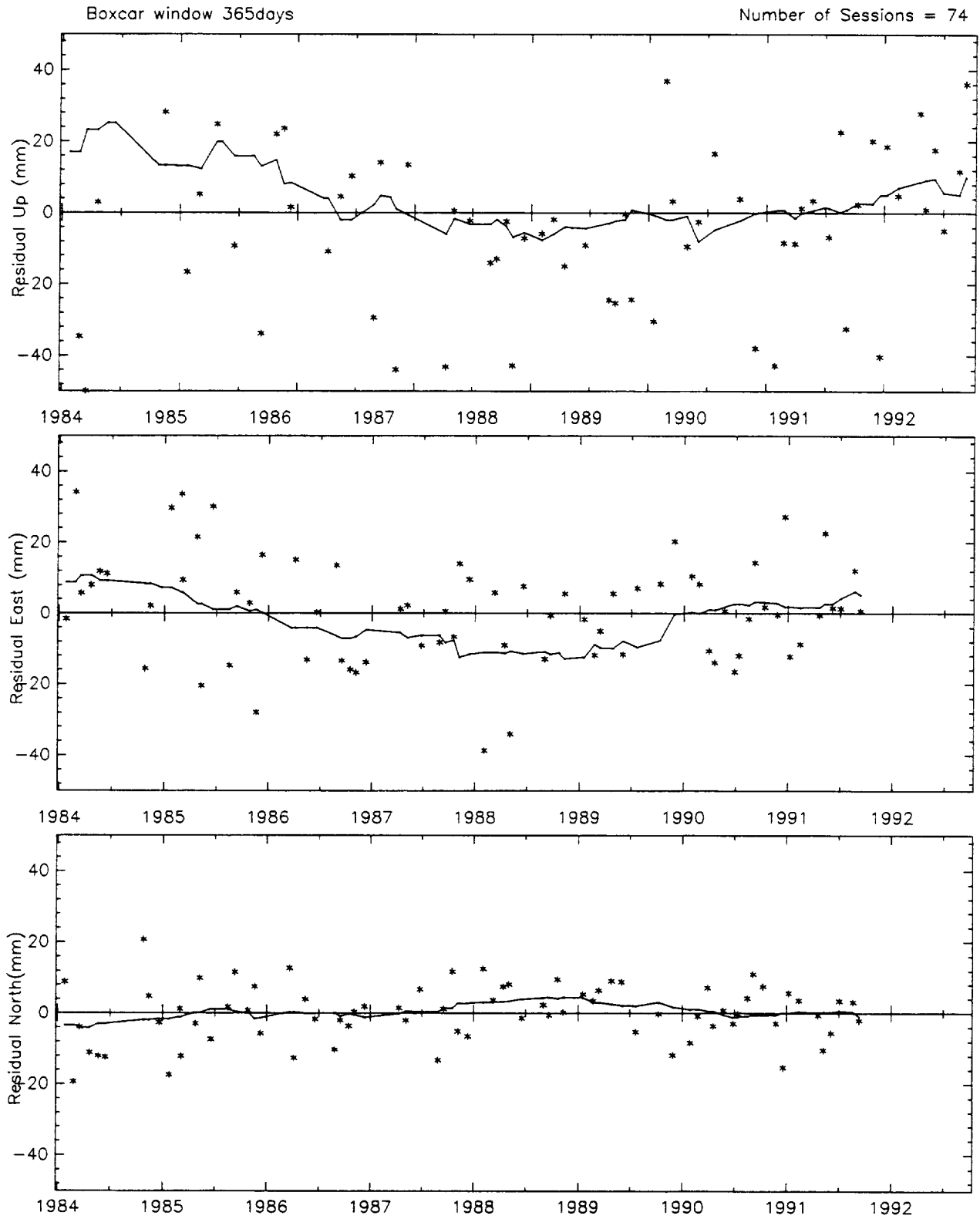


Figure 25. Local topocentric adjustment residuals for ONSALA60

deleted the error bars from the session values. The line on these plots shows the values from the weighted boxcar filter with a one-year window. A window of one year was chosen to filter out all systematic variations with shorter duration. Figure 23 shows that virtually all anomalous motion at Wettzell arises from changes in the vertical. Excepting the first ~18 months there are no deviations in the east and north greater than 2-3 mm. For Onsala this is not so. Figure 25 shows that while the variation in the vertical is greatest (approximately -10 to +22 mm) there are still variations in the east component at a level of ± 10 mm.

We have not resolved the apparent change in rates of the transatlantic baselines, but it does appear that a major portion can be absorbed in changes in the site vertical at ONSALA60 and WETTZELL. Whether this phenomenon is a geophysical effect or an artifact of the VLBI method cannot be answered definitively from the data presented here. The current six-station network in Europe has been in regular use only since 1990, but in time it will provide a robust network of relative short baselines within which the vertical motions of ONSALA60 and WETTZELL will be well determined. Also new sites in Europe or nearby are under construction or being planned. The Norwegians are building a new antenna on the island of Spitsbergen (north of Norway) and there are proposals for sites in Russia and Ukraine. In time the densification of the networks in Europe and new sessions involving Europe and sites in other parts of the world should resolve this question.

These transatlantic results should not be interpreted as casting doubt on all geodetic rates measured with CDP VLBI. If the sessions used in GLB868 are divided by date into two sets at January 1, 1988, there are 43 baselines with adequate data in each set to estimate baseline rates. In a comparison of the baseline rates from the two sets there are only six baselines with differences greater than 2σ and four of the six are the transatlantic baselines connecting Westford and Richmond to Onsala and Wettzell. For 37 baselines (86%) the rate differences are less than 2σ and for 22 baselines (51%) they are less than 1σ .

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1.0 Stations and Sites

Table 1.1 describes the radio telescopes located at fixed stations. Each antenna has a unique name used throughout this report consisting of at most eight upper case characters. The entries give the antenna diameter, location and operating institution. Table 1.2 has the latitude and longitude for each VLBI mobile site and fixed station, as well as the associated monument number. Each mobile site has a unique name of the same form as the station names. The monument number is followed by a single character. A 'G' indicates a ground monument while an 'A' indicates that the monument number refers to a point in the antenna (usually the intersection of axes). This code is followed by a three-letter code showing on which tectonic plate the site was assumed to be for the solutions. The selection of tectonic plate was somewhat arbitrary in some cases but does not affect the total velocity. The codes are:

AFR -- African	NOA -- North American
AUS -- Australian	PCF -- Pacific
EUR -- Eurasian	SOA -- South American
IND -- Indian	

A nearby geographical location is given for each site for quick reference.

Table 1.1
VLBI OBSERVING STATIONS

ALGOPARK, 46-m-diameter antenna at the Algonquin Radio Observatory near Lake Traverse, Ontario, Canada.

CHLBOLTN, 26-m-diameter antenna located in Chilbolton, England and operated by the Appleton Laboratories. (No longer in use for VLBI.)

DSS15, 34-m-diameter antenna operated by the Deep Space Network in the Goldstone Tracking Complex near Barstow, California.

DSS45, 34-m-diameter antenna operated by the Deep Space Network in Tidbinbilla, Australia.

DSS65, 34-m-diameter antenna operated by the Deep Space Network in Madrid, Spain.

EFLSBERG, 100-m-diameter antenna of the Max Planck Institute for Radio Astronomy located near Effelsberg, Germany.

FD-VLBA, 25-m-diameter antenna of the Very Long Baseline Array (VLBA) near Ft. Davis, Texas.

GILCREEK, 26-m-diameter antenna operated by the CDP and located at the NOAA/NESDIS facility at Gilmore Creek, Alaska, near Fairbanks.

GOLDVENU, 26-m-diameter antenna operated by the Deep Space Network in the Goldstone Tracking Complex near Barstow, California. Also called DSS13.

HARTRAO, 26-m-diameter antenna at the Hartebeesthoek Radio Astronomy Observatory near Johannesburg, South Africa.

HATCREEK, 26-m-diameter antenna at the Hat Creek Radio Observatory, HatCreek, California.

HAYSTACK, 37-m-diameter antenna at the Haystack Observatory, Westford, Massachusetts.

HOBART26, 26-m-diameter antenna operated by the University of Tasmania at Hobart, Tasmania, Australia.

HRAS 085, 26-m-diameter antenna at the George R. Agassiz Station operated by the Harvard College

Observatory and located near Fort Davis, Texas. (No longer in use.)

KASHIMA, 26-m-diameter antenna at the Kashima Space Research Center, Kashima, Japan.

KASHIM34, 34-m-diameter antenna at the Kashima Space Research Center, Kashima, Japan.

KAUAI, 9-m-diameter antenna operated by the CDP at the Kokee Park Geophysical Observatory on the island of Kauai in Hawaii. (Formerly part of NASA's Spaceflight Tracking and Data Network.)

KWAJAL26, 26-m-diameter TRADEX antenna operated for the U.S. Air Force by Lincoln Laboratory in the Marshall Islands.

LA-VLBA, 25-m-diameter antenna of the VLBA near Los Alamos, New Mexico.

MARCUS, 10-m-diameter antenna operated by the CRL on the island of Minami-tori Shima in the Western Pacific Ocean.

MARPOINT, 26-m-diameter antenna of the U.S. Naval Research Laboratory located near Maryland Point, Maryland. (No longer in use for routine operations.)

MATERA, 20-m-diameter antenna operated by the Italian Space Agency (ASI) in Matera, Italy.

MEDICINA, 32-m-diameter antenna operated by the University of Bologna, near Bologna, Italy.

MOJAVE12, 12-m-diameter antenna located at the NASA Goldstone complex near Barstow, California and operated by the NGS.

NOBEY 6M, 6-m-diameter antenna of the National Astronomy Observatory at Nobeyama, Japan.

NOTO, 32-m-diameter antenna operated by the University of Bologna at Noto, Sicily, Italy.

NRAO85 3, 26-m-diameter antenna at the National Radio Astronomy Observatory, Green Bank, West Virginia, operated for the U.S. Naval Observatory.

Table 1.1 (continued)

NRAO 140, 43-m-diameter antenna at the National Radio Astronomy Observatory, Green Bank, West Virginia.

ONSALA60, 20-m-diameter antenna at the Onsala Space Observatory, Onsala, Sweden.

OVRO 130, 40-m-diameter antenna at the Owens Valley Radio Observatory, Big Pine, California.

PIETOWN, 25-m-diameter antenna of the VLBA near Pietown, New Mexico.

RICHMOND, 18-m-diameter antenna of the U.S. Naval Observatory near Miami, Florida.

ROBLED32, 32-m-diameter antenna located at the NASA Madrid complex in Spain and operated by the Deep Space Network.

SANTIA12, 12-m-diameter antenna located in Peldehue, Chile and operated by the Center for Space Studies of the University of Chile.

SESHAN25, 25-m-diameter antenna of the Shanghai Astronomical Observatory near Shanghai, China.

SEST, 15-m-diameter antenna operated by the European Southern Observatory (ESO) near Cerro Tolollo, Chile.

SHANGHAI, 6-m-diameter antenna at the Shanghai Astronomical Observatory in Shanghai, China.

USUDA64, 64-m-diameter antenna operated by the NASDA near Usuda, Japan.

VNDNBERG, 9-m-diameter antenna operated by the CDP and located at the Vandenberg Air Force Base in California. (Ceased operations Summer 1990.)

WESTFORD, 18-m-diameter antenna at the Haystack Observatory, Westford, Massachusetts.

WETTZELL, 20-m-diameter antenna located in Bavaria, Germany and operated by the German Institute for Applied Geodesy (IfAG).

Table 1.2

VLBI SITE LOCATIONS					
				LAT	LONG
Site Name	Mon.	Plt	Location	deg min	deg min
ALGOPARK	7282 A	NOA	Lake Traverse, Ont., Canada	45 57	281 56
AUSTINTX	7271 G	NOA	Austin, Texas	30 20	262 18
BERMUDA	7294 G	NOA	Bermuda Islands, U.K.	32 22	295 20
BLKBUTTE	7269 G	NOA	Black Butte, California	33 40	244 17
BLOOMIND	7291 G	NOA	Bloomington, Indiana	39 11	273 30
BREST	7604 G	EUR	Brest, France	48 24	355 30
CARNUSTY	7603 G	EUR	Carnoustie, Scotland	56 29	357 13
CARROLGA	7228 G	NOA	Carrolton, Georgia	33 34	274 53
CHLBOLTN	7215 A	EUR	Chilbolton, England	51 09	358 34
DEADMANL	7267 G	NOA	Deadman Lake, California	34 15	243 43
DSS15	7231 A	NOA	Barstow, California	35 25	243 07
DSS45	1642 A	AUS	Tidbinbilla, Australia	-35 23	148 59
DSS65	1665 A	EUR	Madrid, Spain	40 26	355 45
EFLSBERG	7203 A	EUR	Effelsberg, Germany	50 31	6 53
ELY	7286 G	NOA	Ely, Nevada	39 18	245 09
FD-VLBA	7613 A	NOA	Ft. Davis, Texas	30 38	256 03
FLAGSTAF	7261 G	NOA	Flagstaff, Arizona	35 13	248 22
FORT ORD	7266 G	PCF	Sand City, California	36 40	238 14
FORTORDS	7241 G	PCF	Sand City, California	36 35	238 14
FTD 7900	7900 G	NOA	Fort Davis, Texas	36 35	238 14
GILCREEK	7225 A	NOA	Fairbanks, Alaska	64 59	212 30
GOLDVENU	1513 A	NOA	Barstow, California	35 15	243 12
GORF7102	7102 G	NOA	Beltsville, Maryland	39 01	283 10
GRASSE	7605 G	EUR	Grasse, France	43 45	6 55
HALEAKAL	7120 G	PCF	LURE Obs., Maui, Hawaii	20 42	203 45
HARTRAO	7232 A	AFR	Johannesburg, South Africa	-25 52	27 41
HATCREEK	7218 A	NOA	Hat Creek, California	40 49	238 32
HAYSTACK	7205 A	NOA	Westford, Massachusetts	42 37	288 31
HOBART26	7242 A	AUS	Hobart, Tasmania, Australia	-42 47	147 26
HOHENFRG	7600 G	EUR	Hohenbuenstorf, Germany	53 03	10 29
HRAS 085	7216 A	NOA	Fort Davis, Texas	30 38	256 03
JPL MV1	7263 G	PCF	Pasadena, California	34 12	241 50
KASHIM34	1857 A	NOA	Kashima, Japan	35 57	140 40
KASHIMA	1856 A	NOA	Kashima, Japan	35 57	140 40
KAUAI	1311 A	PCF	Kokee Park, Kauai, Hawaii	22 08	200 20
KODIAK	7278 G	NOA	Kodiak, Alaska	57 44	207 30
KWAJAL26	4968 A	PCF	Roi-Namur, Marshall Islands	9 24	167 29
LA-VLBA	7611 A	NOA	Los Alamos, New Mexico	35 47	253 45
LEONRDOK	7292 G	NOA	Leonard, Oklahoma	35 55	264 12
MAMMOTHL	7259 G	NOA	Mammoth Lakes, California	37 38	241 03

Table 1.2 (continued)

VLBI SITE LOCATIONS					
				LAT	LONG
Site Name	Mon.	Plt	Location	deg min	deg min
MARCUS	7310 A	PAC	Minami-tori Shima, Japan	24 17	153 59
MARPOINT	7217 A	NOA	Maryland Point, Maryland	38 22	282 46
MATERA	7243 A	EUR	Matera, Italy	40 39	16 42
MCD 7850	7850 G	NOA	Fort Davis, Texas	30 41	255 59
MEDICINA	7230 A	EUR	Medicina, Italy	44 31	11 39
METSHOVI	7601 G	EUR	Metsahovi, Finland	60 15	24 23
MILESMON	7038 G	NOA	Miles City, Montana	46 24	254 08
MIYAZAKI	7312 G	EUR	Miyazaki, Japan	32 05	131 29
MIZUSGSI	7314 G	NOA	Mizusawa, Japan	39 07	141 12
MOJ 7288	7288 G	NOA	Barstow, California	35 20	243 07
MOJAVE12	7222 A	NOA	Barstow, California	35 20	243 07
MON PEAK	7274 G	PCF	Monument Peak, California	32 54	243 35
NOBEY 6M	7244 A	NOA	Nobeyama, Japan	35 56	138 28
NOME	7279 G	NOA	Nome, Alaska	64 34	194 38
NOTO	7547 A	EUR	Noto, Sicily, Italy	36 53	14 59
NRAO 140	7204 A	NOA	Green Bank, West Virginia	38 26	280 10
NRAO85 3	7214 A	NOA	Green Bank, West Virginia	38 26	280 09
OCOTILLO	7270 G	NOA	Ocotillo, California	32 47	244 12
ONSALA60	7213 A	EUR	Onsala, Sweden	57 24	11 56
OVR 7853	7853 G	NOA	Big Pine, California	37 14	241 42
OVRO 130	7207 A	NOA	Big Pine, California	37 14	241 43
PBLOSSOM	7254 G	PCF	Pearblossom, California	34 31	242 05
PENTICTN	7283 G	NOA	Penticton, B.C., Canada	49 19	240 23
PIETOWN	7234 A	NOA	Pie Town, New Mexico	34 18	251 53
PINFLATS	7256 G	NOA	Pinyon Flats, California	33 37	243 32
PLATTVIL	7258 G	NOA	Platteville, Colorado	40 11	255 16
PRESIDIO	7252 G	PCF	San Francisco, California	37 48	237 33
PT REYES	7251 G	PCF	Point Reyes, California	38 06	237 04
PVERDES	7268 G	PCF	Palos Verdes, California	33 45	241 36
QUINCY	7221 G	NOA	Quincy, California	39 58	239 03
RICHMOND	7219 A	NOA	Miami, Florida	25 37	279 37
ROBLED32	1561 A	EUR	Madrid, Spain	40 26	355 45
SANPAULA	7255 G	PCF	Santa Paula, California	34 23	241 00
SANTIA12	1404 A	SOA	Peldehue, Chile	-33 08	289 20
SEATTLE1	7229 G	NOA	Seattle, Washington	47 41	237 45
SESHAN25	7227 A	EUR	Shanghai, China	31 06	121 12
SEST	7239 A	SOA	Cerro Tolollo, Chile	-29 15	289 16
SHANGHAI	7226 A	EUR	Shanghai, China	31 11	121 26
SINTOTU	7315 G	NOA	Mashike, Hokaido Island, Japan	43 32	141 51
SNDPOINT	7280 G	NOA	Sand Point, Alaska	55 21	199 31

Table 1.2 (continued)

VLBI SITE LOCATIONS					
				LAT	LONG
Site Name	Mon.	Plt	Location	deg min	deg min
SOURDOGH	7281 G	NOA	Sourdough, Alaska	62 40	214 31
TITIJIMA	7316 G	PCF	Titi Jima Island, Japan	27 06	142 12
TROMSONO	7602 G	EUR	Tromso, Norway	69 40	18 56
TRYSILNO	7607 G	EUR	Trysil, Norway	61 25	12 23
TSUKUBA	7311 G	NOA	Tsukuba, Japan	36 06	140 05
USUDA64	7246 A	EUR	Usuda, Japan	36 08	138 22
VERNAL	7290 G	NOA	Vernal, Utah	40 20	250 26
VICTORIA	7289 G	NOA	Victoria, Vancouver, Canada	48 23	236 31
VNDNBERG	7223 G	PCF	Vandenberg AFB, California	34 33	239 23
WESTFORD	7209 A	NOA	Westford, Massachusetts	42 37	288 30
WETZELL	7224 A	EUR	Wetzell, Bavaria, FRG	49 09	12 53
WHTHORSE	7284 G	NOA	Whitehorse, Yukon Ter., Canada	60 43	224 55
YAKATAGA	7277 G	NOA	Cape Yakataga, Alaska	60 05	217 31
YELLOWKN	7285 G	NOA	Yellowknife, NW Ter., Canada	62 29	245 32
YLOW7296	7296 G	NOA	Yellowknife, NW Ter., Canada	62 29	245 31
YUMA	7894 G	NOA	Yuma, Arizona	32 56	245 48

2.0 Summary of Sessions by Database and Site

Table 2.1 is a summary of the observing sessions. Each line corresponds to one session and contains the database name of the session and an asterisk (*) to indicate which fixed stations and/or mobile sites participated. The final character in each database name was meant to indicate the type of observing session but this convention has not been consistently used; the session types are, however, identified in the column to the right of the database name. These session types correspond to the observing programs described in detail in Section II. B. of the text.

TABLE 2.1
SUMMARY OF EXPERIMENTS BY SITE

Mobile and Transportable Sites

Fixed stations

Experiment name	Experiment type	ACDD	EFGGH	HHHK	KKLM	MMMN	NNNO	PRSS	SSUM	ABBB	CCDEF	FFGG	HHJKL	MMMM	NNNO	OPPP	PPQS	SSST	TTTV	VVWY	YY
1 \$79AUG03XX	CDP Trans-US																				
2 \$79NOV25X	CDP Atlantic																				
3 \$80APR11XQ	CDP Trans-US																				
4 \$80JUL26X	CDP MERIT																				
5 \$80JUL27X	CDP MERIT																				
6 \$80SEP26X	CDP MERIT																				
7 \$80SEP27X	CDP MERIT																				
8 \$80SEP28X	CDP MERIT																				
9 \$80SEP29X	CDP MERIT																				
10 \$80SEP30X	CDP MERIT																				
11 \$80OCT01X	CDP MERIT																				
12 \$80OCT02X	CDP MERIT																				
13 \$80OCT16X	CDP MERIT																				
14 \$80OCT17X	CDP MERIT																				
15 \$80OCT18X	CDP MERIT																				
16 \$80OCT19X	CDP MERIT																				
17 \$80OCT20X	CDP MERIT																				
18 \$80OCT21X	CDP MERIT																				
19 \$80OCT22X	CDP MERIT																				
20 \$80NOV03XA	NGS POLARIS																				
21 \$80DEC01XA	NGS POLARIS																				
22 \$80DEC19XA	NGS POLARIS																				
23 \$81JAN07XB	NGS POLARIS																				
24 \$81JAN22XA	NGS POLARIS																				
25 \$81FEB12X	NGS POLARIS																				
26 \$81FEB27X	NGS POLARIS																				
27 \$81MAR16X	NGS POLARIS																				
28 \$81MAY13X	NGS POLARIS																				
29 \$81JUN16X	CDP Trans-US																				
30 \$81JUN24XA	NGS POLARIS																				
31 \$81JUL01X	NGS POLARIS																				
32 \$81JUL08X	NGS POLARIS																				
33 \$81JUL15X	NGS POLARIS																				
34 \$81JUL22X	NGS POLARIS																				
35 \$81JUL29X	NGS POLARIS																				
36 \$81AUG05X	NGS POLARIS																				

Table 2.1 (continued)

Experiment name	Experiment type	ACDD	FEFGH	HHHK	KKLM	MMMM	NNNO	PPRS	SSUW	ABBB	CCDEF	FFFG	HHJK	MMMM	NNNO	OPPP	PPQS	SSST	TTTV	VWXY
37 \$81AUG26X	NGS POLARIS	LHSS	FDIOA	AAORA	AAVA	AAEO	ORRV	IOAE	EISEE	UELLR	AEELL	OOTOR	HOPE	ACEII	LOOOC	VBEIL	RTVUA	EINOI	RRSEI	NHAEI
38 \$81SEP02X	NGS POLARIS	GLSS	L-LRR	TYBAS	SUA-R	RTDJB	TAASR	ECBNS	SAUST	SRKOE	RRAYA	RRDRA	LHLDO	MOTLY	ZJNHO	RLNNA	E EIN	ANDUT	OYURC	DTKLO
39 \$81SEP09X	NGS POLARIS	OB146	SVCDT	CSASH	HJVC	PEIAE	OOOAO	THLTH	TNDTT	THBOS	NRD G	TT FS	EE IN	M SEA	U ET	OTFT	SRRNP	TPPRI	MSKNT	NHALW
40 \$81SEP16X	NGS POLARIS	PO555	BLRVR	RTR I	ITALU	ORCVY	8L	OMETA	GAFZ	IUUMT	UOM S	O7FS	ANMAR	O7HSZ	S7P I	7SILT	IEDCA	TOODJ	SIUAO	BOTO7
41 \$81SEP23X	NGS POLARIS	AL	EBEEA	EATOM	M LBS	IATIE	15A1	WODAN	H6OE	NDTI	SLA T	OR9IE	KFKVD	T8OMA	G2E L	8SCAV	DYEYU	LTIOI	OLBLR	ERAU2
42 \$81SEP30X	NGS POLARIS	RT	RAENO	EC283	A 2A	N N16	4 63	NN312	A4RL	TATN	TGN A	RD00	ART O	H5VOK	S8A L	50TTI	IES L	EUNGH	NNA I	RSKG9
43 \$81OCT15X	NGS POLARIS	KN	G KU	KK654	6	T A2M	0300	D225	I DL	X ED	YAL F	DS02	LG K	LOINI	18K O	3MNSL	OS A	1 THA	OO A	GEAN6
44 \$81OCT21XA	NGS POLARIS																			
45 \$81OCT28X	NGS POLARIS																			
46 \$81NOV04XA	NGS POLARIS																			
47 \$81NOV10X	NGS POLARIS																			
48 \$81NOV18X	CDP Atlantic																			
49 \$81NOV19X	CDP Atlantic																			
50 \$81NOV24XA	NGS POLARIS																			
51 \$81DEC02XA	NGS POLARIS																			
52 \$81DEC16X	NGS POLARIS																			
53 \$81DEC22X	NGS POLARIS																			
54 \$81DEC29XA	NGS POLARIS																			
55 \$82JAN06X	NGS POLARIS																			
56 \$82JAN13X	NGS POLARIS																			
57 \$82JAN20X	NGS POLARIS																			
58 \$82JAN27X	NGS POLARIS																			
59 \$82FEB01X	NGS POLARIS																			
60 \$82FEB10X	NGS POLARIS																			
61 \$82FEB17X	NGS POLARIS																			
62 \$82FEB24X	NGS POLARIS																			
63 \$82MAR03X	NGS POLARIS																			
64 \$82MAR10X	NGS POLARIS																			
65 \$82MAR17X	NGS POLARIS																			
66 \$82MAR24X	NGS POLARIS																			
67 \$82MAR29X	NGS POLARIS																			
68 \$82APR07X	NGS POLARIS																			
69 \$82APR13X	NGS POLARIS																			
70 \$82APR19XA	NGS POLARIS																			
71 \$82APR26X	NGS POLARIS																			
72 \$82MAY03X	NGS POLARIS																			
73 \$82MAY10XA	NGS POLARIS																			
74 \$82MAY17X	NGS POLARIS																			
75 \$82JUN02X	NGS POLARIS																			
76 \$82JUN07X	NGS POLARIS																			

Table 2.1 (continued)

Experiment name	Experiment type	ACDD	EFGH	HHHK	KKLM	MMMN	NNNO	PRRS	SSUW	ABBB	CCDEF	FFGG	HHJK	MMMM	MMNO	OPPP	PPQS	SSST	TTTT	VVVV	YYYY	
77 \$82JUN16X	CDP Atlantic																					
78 \$82JUN18X	CDP Atlantic		*	*																		
79 \$82JUN19XA	CDP Atlantic			*																		
80 \$82JUN20XA	CDP Atlantic			*																		
81 \$82JUN21X	CDP Atlantic			*																		
82 \$82JUN28X	NGS POLARIS			*																		
83 \$82JUL06XA	NGS POLARIS			*																		
84 \$82JUL12X	NGS POLARIS			*																		
85 \$82JUL19X	NGS POLARIS			*																		
86 \$82JUL26X	NGS POLARIS			*																		
87 \$82AUG04X	NGS POLARIS			*																		
88 \$82AUG09X	NGS POLARIS			*																		
89 \$82AUG16X	NGS POLARIS			*																		
90 \$82AUG23X	NGS POLARIS			*																		
91 \$82AUG30X	NGS POLARIS			*																		
92 \$82SEP07X	NGS POLARIS			*																		
93 \$82SEP13X	NGS POLARIS			*																		
94 \$82SEP20X	NGS POLARIS			*																		
95 \$82SEP27X	NGS POLARIS			*																		
96 \$82OCT04X	NGS POLARIS			*																		
97 \$82OCT13X	NGS POLARIS			*																		
98 \$82OCT16XA	California			*																		
99 \$82OCT17XA	California			*																		
100 \$82OCT18X	CDP Trans-US			*																		
101 \$82OCT21XA	California			*																		
102 \$82OCT23XA	California			*																		
103 \$82OCT25X	NGS POLARIS			*																		
104 \$82NOV01XA	NGS POLARIS			*																		
105 \$82NOV08XA	NGS POLARIS			*																		
106 \$82NOV15X	NGS POLARIS			*																		
107 \$82NOV22XA	NGS POLARIS			*																		
108 \$82NOV29XA	NGS POLARIS			*																		
109 \$82DEC06XA	NGS POLARIS			*																		
110 \$82DEC15X	CDP Atlantic			*																		
111 \$82DEC16X	CDP Atlantic			*																		
112 \$82DEC20XA	NGS POLARIS			*																		
113 \$82DEC27X	NGS POLARIS			*																		
114 \$83JAN03X	NGS POLARIS			*																		
115 \$83JAN10X	NGS POLARIS			*																		
116 \$83JAN17X	NGS POLARIS			*																		

Table 2.1 (continued)

Experiment name	Experiment type	ACDD	EFGGH	HHHK	KKLM	MMMN	NNNO	PRSS	SSUW	ABBB	CCDEF	FFGG	HHJKL	MMMM	MMNO	OPPP	PPQS	SSST	TTTTV	VVVV	Y
117 \$83JAN24XA	NGS POLARIS																				
118 \$83JAN31XA	NGS POLARIS																				
119 \$83FEB07X	NGS POLARIS																				
120 \$83FEB14XA	NGS POLARIS																				
121 \$83FEB21X	California																				
122 \$83FEB28X	NGS POLARIS																				
123 \$83MAR07X	NGS POLARIS																				
124 \$83MAR14X	NGS POLARIS																				
125 \$83MAR21X	NGS POLARIS																				
126 \$83MAR28X	NGS POLARIS																				
127 \$83APR04X	NGS POLARIS																				
128 \$83APR11X	NGS POLARIS																				
129 \$83APR18X	NGS POLARIS																				
130 \$83APR25X	NGS POLARIS																				
131 \$83MAY02X	NGS POLARIS																				
132 \$83MAY05X	CDP Atlantic																				
133 \$83MAY09X	NGS POLARIS																				
134 \$83MAY16X	NGS POLARIS																				
135 \$83MAY23X	NGS POLARIS																				
136 \$83MAY31X	NGS POLARIS																				
137 \$83JUN06X	CDP Trans-US																				
138 \$83JUN07X	Western US																				
139 \$83JUN07XP	NGS POLARIS																				
140 \$83JUN09X	CDP Trans-US																				
141 \$83JUN13X	NGS POLARIS																				
142 \$83JUN20X	NGS POLARIS																				
143 \$83JUN27XA	California																				
144 \$83JUN28XA	NGS POLARIS																				
145 \$83JUN29X	California																				
146 \$83JUL05X	NGS POLARIS																				
147 \$83JUL11X	NGS POLARIS																				
148 \$83JUL25X	NGS POLARIS																				
149 \$83JUL27X	CDP Research																				
150 \$83AUG01X	NGS POLARIS																				
151 \$83AUG08X	NGS POLARIS																				
152 \$83AUG15X	NGS POLARIS																				
153 \$83AUG22XJ	California																				
154 \$83AUG22XP	NGS POLARIS																				
155 \$83AUG23X	California																				
156 \$83AUG25XJ	California																				

Table 2.1 (continued)

Experiment name	Experiment type	ACDD	EFGGH	HHHK	KKKL	MMMN	NNNO	ORRV	PRSS	SSUM	ABBB	CCDEF	FFFG	HHJKL	MMMM	NNNO	OPPP	PPQS	SSST	TTTV	VWXY	
157 \$83AUG27X	California	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
158 \$83AUG29X	NGS POLARIS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
159 \$83AUG30X	CDP Atlantic	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
160 \$83AUG31X	California	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
161 \$83SEP02X	NGS POLARIS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
162 \$83SEP07X	NGS POLARIS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
163 \$83SEP12X	NGS POLARIS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
164 \$83SEP17X	NGS POLARIS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
165 \$83SEP22X	NGS POLARIS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
166 \$83SEP23AX	CDP Atlantic	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
167 \$83SEP27X	NGS POLARIS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
168 \$83OCT02X	NGS POLARIS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
169 \$83OCT07X	NGS POLARIS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
170 \$83OCT12X	NGS POLARIS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
171 \$83OCT17X	NGS POLARIS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
172 \$83OCT22X	NGS POLARIS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
173 \$83OCT27X	NGS POLARIS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
174 \$83OCT28X	CDP Atlantic	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
175 \$83OCT29X	California	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
176 \$83OCT31X	California	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
177 \$83NOV01X	NGS POLARIS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
178 \$83NOV03X	California	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
179 \$83NOV05X	California	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
180 \$83NOV06X	NGS POLARIS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
181 \$83NOV08X	California	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
182 \$83NOV10X	California	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
183 \$83NOV11X	NGS POLARIS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
184 \$83NOV12X	California	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
185 \$83NOV16X	NGS POLARIS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
186 \$83NOV17X	CDP Atlantic	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
187 \$83NOV21X	NGS POLARIS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
188 \$83NOV26X	NGS POLARIS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
189 \$83DEC01X	NGS POLARIS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
190 \$83DEC06X	NGS POLARIS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
191 \$83DEC11X	NGS POLARIS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
192 \$83DEC16X	NGS POLARIS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
193 \$83DEC21X	NGS POLARIS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
194 \$83DEC22X	CDP Atlantic	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
195 \$83DEC26X	NGS POLARIS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
196 \$83DEC31X	NGS POLARIS	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2.1 (continued)

Experiment name	Experiment type	ACDD	FEFGH	HHHK	KKLM	MMMN	NNNO	PPRS	SSUM	ABBB	CCDEF	FFGG	HHJKL	MMMM	MMNO	OPPP	PPQS	SSST	TTTTV	WYYY	
197 \$84JAN04X	IRIS-A			*			*		*												
198 \$84JAN07X	Local Survey		*																		
199 \$84JAN09X	IRIS-A			*																	
200 \$84JAN14X	IRIS-A			*			*														
201 \$84JAN14XP	Local Survey		*																		
202 \$84JAN24X	IRIS-A			*			*														
203 \$84JAN24XK	CDP Pacific			*																	
204 \$84JAN29X	IRIS-A			*																	
205 \$84FEB03X	IRIS-A			*																	
206 \$84FEB08X	IRIS-A			*																	
207 \$84FEB13X	IRIS-A			*																	
208 \$84FEB18X	IRIS-A			*																	
209 \$84FEB20X	California			*			*						*								*
210 \$84FEB21X	CDP Research			*			*					*									*
211 \$84FEB23X	California			*			*														*
212 \$84FEB23XA	IRIS-A			*			*														*
213 \$84FEB24X	CDP Atlantic			*			*														*
214 \$84FEB24XM	CDP Pacific			*			*														*
215 \$84FEB26X	California			*			*										*				*
216 \$84FEB28XP	IRIS-A			*			*										*				*
217 \$84FEB29X	California			*			*										*				*
218 \$84MAR03X	California			*			*									*					*
219 \$84MAR04XP	IRIS-A			*			*														*
220 \$84MAR09XP	IRIS-A			*			*														*
221 \$84MAR14X	IRIS-A			*			*														*
222 \$84MAR19X	IRIS-A			*			*														*
223 \$84MAR25X	IRIS-A			*			*														*
224 \$84MAR30X	IRIS-A			*			*														*
225 \$84APR03X	IRIS-A			*			*														*
226 \$84APR08X	IRIS-A			*			*														*
227 \$84APR09X	California			*			*														*
228 \$84APR12X	California			*			*														*
229 \$84APR13X	IRIS-A			*			*														*
230 \$84APR17X	California			*			*														*
231 \$84APR18X	IRIS-A			*			*														*
232 \$84APR19X	CDP Atlantic			*			*														*
233 \$84APR22X	California			*			*														*
234 \$84APR23X	IRIS-A			*			*														*
235 \$84APR25X	California			*			*														*
236 \$84APR26X	N. Am. Plate			*			*														*

Table 2.1 (continued)

ACDD	EFGH	HHHK	KKLM	MMMN	NNOO	PPRS	SSUW	ABBB	CCDEF	FFGG	HHJK	MMMM	MMNO	OPPP	PPQS	SSST	TTTW	VWXY	
LHSS	FDIOA	AAORA	AAWA	AAEO	ORRV	IIOAE	EHSEE	UELLR	AAELL	OOTOR	AOPOE	ACEII	IOOOC	VBEIL	RYVUA	EINOI	RRSEI	NHAEI	
GLSS	L-LLR	TYBAS	SUA-R	RTDJB	TAASR	ECBNS	SAUST	SRKOE	RRAYA	RRDRA	LHLDO	MDTLY	ZJNMO	RLNNA	E EIN	ANDUT	OYURC	DTKLO	
OBT46	SVCOT	CSASH	HAJVC	PEIAE	OODAO	THLTH	TNDTT	TRBOS	NRD G	TT FS	EE IN	M SEA	U ET	OTFT	SRRNP	TPPRI	MSKNT	NHALW	
POS55	BLVR	RTR I	IIALU	ORCVY	BL	ONEIA	GAFZ	IUUMT	UOM S	077S	ANMAR	07HSZ	S7P I	7SILT	IEDCA	TOOOJ	SUAUO	BOTO7	
AL	EBEA	EATON	M LBS	TATE	15A1	MODAN	HGOE	NDTI	SLA T	OR91E	KFKVD	T8OMA	G2E L	8SCAV	DYEYU	LTIOI	OLBLR	ERAM2	
RT	RAENO	EC2B3	A 2A	M N16	4 63	NN312	AGARL	TATN	TGN A	RD00	ART O	H5VOK	S8A L	50TTI	IES L	FEUNG	NNA I	RSKG9	
KN	G KU	KK654	6	T AZM	0300	D225	I DL	X ED	YAL F	DS02	LG K	LOINI	18K O	3HNSL	OS A	T TMA	OO A	GEANG	
237	\$84APR28X	IRIS-A																	
238	\$84MAY03X	IRIS-A																	
239	\$84MAY08X	IRIS-A																	
240	\$84MAY13X	IRIS-A																	
241	\$84MAY18X	IRIS-A																	
242	\$84MAY19X	CDP Atlantic																	
243	\$84MAY23X	IRIS-A																	
244	\$84MAY28X	IRIS-A																	
245	\$84JUN02X	IRIS-A																	
246	\$84JUN07X	IRIS-A																	
247	\$84JUN12X	IRIS-A																	
248	\$84JUN17X	IRIS-A																	
249	\$84JUN22X	IRIS-A																	
250	\$84JUN27X	IRIS-A																	
251	\$84JUL02X	IRIS-A																	
252	\$84JUL07X	CDP Pacific																	
253	\$84JUL07X	IRIS-A																	
254	\$84JUL12X	IRIS-A																	
255	\$84JUL14X	Alaska																	
256	\$84JUL17X	IRIS-A																	
257	\$84JUL180X	Japan GSI																	
258	\$84JUL21X	CDP Pacific																	
259	\$84JUL22X	CDP Pacific																	
260	\$84JUL22XA	IRIS-A																	
261	\$84JUL23X	Alaska																	
262	\$84JUL27X	IRIS-A																	
263	\$84JUL28X	CDP Pacific																	
264	\$84JUL29X	CDP Pacific																	
265	\$84JUL31X	Alaska																	
266	\$84AUG01X	IRIS-A																	
267	\$84AUG04X	CDP Pacific																	
268	\$84AUG05X	CDP Pacific																	
269	\$84AUG06X	IRIS-A																	
270	\$84AUG07X	Alaska																	
271	\$84AUG11X	IRIS-A																	
272	\$84AUG16X	IRIS-A																	
273	\$84AUG21X	IRIS-A																	
274	\$84AUG24X	N. Am. Plate																	
275	\$84AUG26X	IRIS-A																	
276	\$84AUG28X	N. Am. Plate																	

Table 2.1 (continued)

ACDD	EFGG	HHHK	KKLM	MMMN	NNNO	PPRS	SSUW	ABBB	CCDEF	FFGG	HHJK	MMMM	MMMM	MMMM	OPPP	PPQS	SSST	TTTV	VVVV	YYYY
LHSS	FDIOA	AAORA	AAVA	AAEO	ORRV	IOAE	EISEE	UELLR	AAELL	OOTOR	AOPOE	ACEII	IOOOC	VBEIL	RTVUA	EINOI	RRSET	NHAEI	UU	
GLSS	L-LLR	TYBAS	SUA-R	RTDJB	TAASR	ECBNS	SAUST	SRKOE	RRAYA	RRDRA	LHLD	MDTLY	ZJNHO	RLNNA	E EIN	ANDUT	OYURC	DTKLO	M	
OB146	SVCDD	CSASH	HJVC	PEIAE	OOOAO	TLTH	TNDTT	TWBOS	NRD G	TT FS	EE IN	M SEA	U ET	OTFT	SRRNP	TTPRI	MSKNT	NHALW	A	
PO555	BLVR	RTR I	ITALU	ORCVY	8L	OMEIA	GAFZ	IUUMT	UOM S	OR91E	ANMAR	07HSZ	S7P I	7SILT	TEDECA	TOOOJ	SIUAO	BOTO7		
AL	EBEEA	EATOM	M LBS	IAIE	15A1	WODAN	H6OE	NDTI	SLA T	OR91E	KFKVD	TBOMA	G2E L	BSCAV	DYEVU	LTIOI	DLBLR	ERAH2		
RT	RAENO	EC283	A 2A	N W16	4 63	NN312	A4RL	TATN	TGN A	RD00	ARI O	H5VOK	S8A L	50TTI	TES L	EUNGH	NNA I	RSK9		
KN	G KU	KK654	6	T A2M	0300	D225	I DL	X ED	YAL F	DS02	LG K	LOINI	18K O	3MNSL	OS A	1 THA	OO A	GEAN6		
277	\$84AUG30X																			
278	\$84AUG31X1																			
279	\$84SEP02X																			
280	\$84SEP05X1																			
281	\$84SEP10X1																			
282	\$84SEP15X1																			
283	\$84SEP20X1																			
284	\$84SEP23X																			
285	\$84SEP25X1																			
286	\$84SEP30X1																			
287	\$84OCT05X1																			
288	\$84OCT10X1																			
289	\$84OCT15X1																			
290	\$84OCT20X1																			
291	\$84OCT22X																			
292	\$84OCT23X																			
293	\$84OCT25X																			
294	\$84OCT25X8																			
295	\$84OCT26X																			
296	\$84OCT28X																			
297	\$84OCT30X1																			
298	\$84OCT31X																			
299	\$84NOV04X1																			
300	\$84NOV09X1																			
301	\$84NOV14X1																			
302	\$84NOV15X																			
303	\$84NOV16X																			
304	\$84NOV19X1																			
305	\$84NOV24X1																			
306	\$84NOV29X1																			
307	\$84DEC04X1																			
308	\$84DEC09X1																			
309	\$84DEC14X1																			
310	\$84DEC19X1																			
311	\$84DEC23X1																			
312	\$84DEC29X1																			
313	\$85JAN03X1																			
314	\$85JAN08X1																			
315	\$85JAN09X																			
316	\$85JAN12X																			

Table 2.1 (continued)

Experiment name	Experiment type	ACDD	EFGG	HHHK	KKKL	MMMN	NNNO	ORRN	RRSS	SSUM	ABBB	CCDEF	FFGG	HHJK	MMMM	MMNO	OPPP	PPQS	SSST	TTTT	VVVV	YYYY	
317 \$85JAN13X1	IRIS-A																						
318 \$85JAN15X	California																						
319 \$85JAN18X	California																						
320 \$85JAN18XA	IRIS-A																						
321 \$85JAN23X1	IRIS-A																						
322 \$85JAN24X	CDP Atlantic																						
323 \$85JAN25X	CDP Research																						
324 \$85JAN28XA	IRIS-A																						
325 \$85FEB02X1	IRIS-A																						
326 \$85FEB07XB	IRIS-A																						
327 \$85FEB12X1	IRIS-A																						
328 \$85FEB17X1	IRIS-A																						
329 \$85FEB22X1	IRIS-A																						
330 \$85FEB27X1	IRIS-A																						
331 \$85MAR01X	California																						
332 \$85MAR04X	California																						
333 \$85MAR06X1	IRIS-A																						
334 \$85MAR05X	CDP Atlantic																						
335 \$85MAR07X	California																						
336 \$85MAR08X	CDP Research																						
337 \$85MAR09X1	IRIS-A																						
338 \$85MAR10X	California																						
339 \$85MAR13XR	California																						
340 \$85MAR14X1	IRIS-A																						
341 \$85MAR19X1	IRIS-A																						
342 \$85MAR20X	CDP Research																						
343 \$85MAR24X1	IRIS-A																						
344 \$85MAR29X1	IRIS-A																						
345 \$85APR03X1	IRIS-A																						
346 \$85APR08X1	IRIS-A																						
347 \$85APR13X1	IRIS-A																						
348 \$85APR18X1	IRIS-A																						
349 \$85APR23X1	IRIS-A																						
350 \$85APR24X	CDP Atlantic																						
351 \$85APR28X1	IRIS-A																						
352 \$85MAY02X	Western US																						
353 \$85MAY03X1	IRIS-A																						
354 \$85MAY06X	Western US																						
355 \$85MAY07XA	N. Am. Plate																						
356 \$85MAY08X1	IRIS-A																						

Table 2.1 (continued)

ACDD	EFGH	HHHK	KKLM	MMMM	NNNO	PRRS	SSUU	ABBB	CCDE	FFGG	HHJK	MMMM	MMNO	OPPP	PPQS	SSST	TTTT	VVYY	
LHSS	FDIO	AAOR	AAVA	AAEO	ORRV	IOAE	EHSE	UELL	AAEL	QOTR	AOPO	ACET	IOOC	VBEL	RTVU	EINO	RRSE	WVYY	
GLSS	L-LR	TYBA	SUA-R	RTDJB	TAASR	ECBNS	SAUST	SRKOE	RRAY	RRDR	LHLD	MDTL	ZJNM	RLNA	E EIN	ANDUT	OYURC	DTKLO	
OB146	SVCDT	CSASH	HAJVC	PETAE	OOOAO	THLTH	TNDTT	TMBOS	NRD G	TT FS	EE IN	M SEA	U ET	OTFT	SRRNP	TTPRI	MSKNT	NHALW	
POS55	BLRVR	RTR I	I IALU	ORCVY	8L	OMEIA	GAZ	IUUMT	UOM S	O77S	ANMAR	O7HSZ	S7P I	7SILT	IEDCA	TOODJ	SIUAO	BOTO7	
AL	EBEEA	EATOM	M LBS	IATE	15A1	WOODAN	H6OE	NDTI	SLA T	OR91E	KFKVD	TSOMA	IG2E	L8SCAV	DYEYU	LTIOI	OLBLR	ERAMZ	
RT	RAENO	EC283	A ZA	N N16	4 63	NN312	A4RL	TATN	TGN A	RD00	ARI O	H5VOK	S8A L	50TTI	IES L	EUNGM	MNA I	RSKG	
KN	G KU	KK654	6	A2M	0300	D225	I DL	X ED	YAL F	DS02	LG K	LOINI	I8K O	3MNSL	OS A	I1 THA	OO A	GEANG	
357	\$85MAY09X	CDP Atlantic																	
358	\$85MAY12X	Western US																	
359	\$85MAY13X	Local Survey																	
360	\$85MAY13XI	IRIS-A																	
361	\$85MAY14X	Western US																	
362	\$85MAY15XG	CDP Pacific																	
363	\$85MAY18XI	IRIS-A																	
364	\$85MAY23XI	IRIS-A																	
365	\$85MAY28XI	IRIS-A																	
366	\$85MAY30X	CDP Research																	
367	\$85JUN02XI	IRIS-A																	
368	\$85JUN07XI	IRIS-A																	
369	\$85JUN12XI	IRIS-A																	
370	\$85JUN17XI	IRIS-A																	
371	\$85JUN18X	CDP Atlantic																	
372	\$85JUN19X	CDP Polar																	
373	\$85JUN22XI	IRIS-A																	
374	\$85JUN27XI	IRIS-A																	
375	\$85JUL02XI	IRIS-A																	
376	\$85JUL06X	CDP Pacific																	
377	\$85JUL07XI	IRIS-A																	
378	\$85JUL12XI	IRIS-A																	
379	\$85JUL17XI	IRIS-A																	
380	\$85JUL18X	Alaska																	
381	\$85JUL20X	CDP Pacific																	
382	\$85JUL22XI	IRIS-A																	
383	\$85JUL25X	Alaska																	
384	\$85JUL27X	CDP Pacific																	
385	\$85JUL27XI	IRIS-A																	
386	\$85AUG01XI	IRIS-A																	
387	\$85AUG05X	Alaska																	
388	\$85AUG06XI	IRIS-A																	
389	\$85AUG080X	Japan GSI																	
390	\$85AUG10X	CDP Pacific																	
391	\$85AUG11XI	IRIS-A																	
392	\$85AUG12X	Alaska																	
393	\$85AUG13X	CDP Research																	
394	\$85AUG16X	IRIS-A																	
395	\$85AUG21XI	IRIS-A																	
396	\$85AUG24X	N. Am. Plate																	

Table 2.1 (continued)

ACDD	EFGGH	HHHK	KKKLM	MMMN	NNNO	PRRS	SSUWJ	ABBB	CCDEF	FFFG	HHJKL	MMMM	MMNO	OPPP	PPQS	SSST	TTTTV	WVYYY	
LHSS	FDIOA	AADRA	AAWAA	AAEOO	ORRNV	IIOAE	EISEE	UELLR	AEELL	OOTOR	AOPOE	ACEIT	TOOOC	VBEIL	RTVUA	EINOI	RRSEI	MHAEL	
GLSS	L-LLR	TYBAS	SUA-R	RTDJB	TAASR	ECBNS	SAUST	SRKOE	RRAYA	RRDRA	LHLDL	MDTLY	ZJNHO	RLNNA	E EIN	ANDUT	OYURC	DTKLO	
OB146	SVCDT	CSASH	HJVC	PEIAE	OOOAO	TLTH	TWDTT	THBOS	NRD G	TT FS	EE IN	M SEA	U ET	OTFT	SRNRP	TPPRI	MSKNT	NHALW	
P0555	BLVR	RTR I	ITALU	ORCVY	8L	OKHEIA	GAFFZ	IUUMT	UOM S	O77S	ANMAR	O7HSZ	S7P I	7SILT	IEDCA	TOOOJ	SIUAO	BOTO7	
AL	EBEEA	EATOM	M LBS	IATIE	15A1	WODAN	H6OE	NDTI	SLA T	OR91E	KFKVD	T8OMA	G2E L	BSCAV	DYEYU	LTIOI	OLBLR	ERAV2	
RT	RAENO	EC283	A 2A	N M16	4.63	NN312	A4RL	TATN	TGN A	RD00	AR1 O	H5VOK	S8A L	50TTI	IES L	EUNGH	NNA I	RSCK9	
KN	G KU	KK654	6	T A2M	0300	D225	I DL	X ED	YAL F	DS02	LG K	L01NI	I8K O	3HNSL	OS A	1 THA	OO A	GEAN6	
397	\$85AUG26XI	IRIS-A																	
398	\$85AUG28X	N. Am. Plate																	
399	\$85AUG31XI	IRIS-A																	
400	\$85SEP04X	N. Am. Plate																	
401	\$85SEP05XI	IRIS-A																	
402	\$85SEP10XI	IRIS-A																	
403	\$85SEP11X	CDP Atlantic																	
404	\$85SEP12X	CDP Research																	
405	\$85SEP15XI	IRIS-A																	
406	\$85SEP20XI	IRIS-A																	
407	\$85SEP25XI	IRIS-A																	
408	\$85SEP30X	CDP Pacific																	
409	\$85SEP30XI	IRIS-A																	
410	\$85OCT02X	CDP Research																	
411	\$85OCT05XI	IRIS-A																	
412	\$85OCT10XI	IRIS-A																	
413	\$85OCT15XI	IRIS-A																	
414	\$85OCT19X	California																	
415	\$85OCT20XI	IRIS-A																	
416	\$85OCT23X	California																	
417	\$85OCT25X	CDP Research																	
418	\$85OCT25XI	IRIS-A																	
419	\$85OCT27X	California																	
420	\$85OCT29X	CDP Atlantic																	
421	\$85OCT30X	California																	
422	\$85OCT30XI	IRIS-A																	
423	\$85NOV02X	California																	
424	\$85NOV04XI	IRIS-A																	
425	\$85NOV05X	California																	
426	\$85NOV07X	CDP Research																	
427	\$85NOV09XI	IRIS-A																	
428	\$85NOV14XI	IRIS-A																	
429	\$85NOV19XI	IRIS-A																	
430	\$85NOV20X	CDP Atlantic																	
431	\$85NOV21X	CDP Polar																	
432	\$85NOV24XI	IRIS-A																	
433	\$85NOV29XI	IRIS-A																	
434	\$85DEC04XI	IRIS-A																	
435	\$85DEC09XI	IRIS-A																	
436	\$85DEC10X	CDP Atlantic																	

Table 2.1 (continued)

ACDDD	EFGGH	HHHK	KKLMM	MMMMN	NNNOO	PPRSS	SSUUV	ABBBB	CCDEF	FFGGG	HHJKL	MMMMM	MMNNO	OPPPP	PPQQQ	SSSST	TTVVV	VWYYY	
LHSSS	FDIOA	YAORA	AAMAA	AAEOO	ORRNV	IIOAE	EIHSE	UELLR	AAELL	OOTOR	AOPOE	ACEII	IOOOC	YBEIL	RTVUA	EIINOI	RRSEI	NHAEI	
GLSSS	L-LLR	TYBAS	SUA-R	RTDJB	TAASR	ECBNS	SAUST	SRKOE	RRAYA	RRDRA	LHLDO	MDTLY	ZJNNO	RLNNA	E ETI	ANDUT	OTURC	DTKLO	
OB146	SVCDD	CSASH	HAIJC	PEIAE	OOOAO	THLTH	TNDTT	THBOS	NRD G	TT FS	EE IN	M SEA	U ET	OTFT	SRRNP	TTPRI	MSKNT	NHALW	
PO555	BLRVR	RTR I	IIALU	ORCVY	8L	OMEIA	GAFZ	IUUMT	UOM S	077S	ANMAR	07HSZ	S7P I	7SILT	IEDCA	TOODJ	SIUAO	BOTO7	
AL	EBEEA	EATOM	M LBS	TAIE	15A1	WODAN	H6OE	NDTI	SLA T	OR9IE	KFVKD	T8OMA	G2E L	8SCAV	DYEYU	LTIOI	DLBLR	ERAV2	
RT	RAENO	EC283	A 2A	N N16	4.63	NN312	A4RL	TATN	TGN A	RD00	AR1 O	H5VOK	SBA L	50TTI	IES L	EUNGH	NNA I	RSOK9	
KN	G KU	KK654	6	T A2M	0300	D225	I DL	X ED	YAL F	DS02	LG K	L01NI	I8K O	3MNSL	OS A	1 THA	OO A	GEAN6	
437	\$85DEC12X	California	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
438	\$85DEC13X	CDP Research	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
439	\$85DEC14XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
440	\$85DEC19XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
441	\$85DEC23XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
442	\$85DEC29XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
443	\$86JAN03XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
444	\$86JAN05X	California	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
445	\$86JAN08XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
446	\$86JAN09XH	IRIS-South	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
447	\$86JAN13XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
448	\$86JAN14X	CDP Atlantic	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
449	\$86JAN15XH	IRIS-South	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
450	\$86JAN18XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
451	\$86JAN19XH	IRIS-South	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
452	\$86JAN20X	CDP Research	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
453	\$86JAN23XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
454	\$86JAN28XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
455	\$86JAN29XH	IRIS-South	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
456	\$86FEB02XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
457	\$86FEB03XH	IRIS-South	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
458	\$86FEB07XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
459	\$86FEB11XH	IRIS-South	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
460	\$86FEB12XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
461	\$86FEB17DX	Japan GSI	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
462	\$86FEB17XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
463	\$86FEB18X	CDP Research	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
464	\$86FEB22XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
465	\$86FEB23X	California	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
466	\$86FEB26X	California	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
467	\$86FEB27XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
468	\$86MAR04XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
469	\$86MAR09XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
470	\$86MAR11X	CDP Research	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
471	\$86MAR13X	CDP Pacific	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
472	\$86MAR14XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
473	\$86MAR19XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
474	\$86MAR20X	CDP Atlantic	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
475	\$86MAR24XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
476	\$86MAR26X	Western US	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Table 2.1 (continued)

Experiment name	Experiment type	ACDD	EFGGH	HHHHK	KKKLM	MMMMN	NNNOO	PPRSS	SSUUM	ABBBB	CCDEF	FFFGG	HHJKL	MMMMM	NNMNO	OPPPP	PPPOS	SSSSS	TTTTT	VVVVV	WYYYY	
477 \$86MAR29XI	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
478 \$86MAR30X	Western US	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
479 \$86APR01X	N. Am. Plate	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
480 \$86APR02X	Western US	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
481 \$86APR03XI	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
482 \$86APR04X	CDP Atlantic	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
483 \$86APR06X	CDP Research	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
484 \$86APR07X	California	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
485 \$86APR08X	CDP Pacific	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
486 \$86APR08XI	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
487 \$86APR10X	California	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
488 \$86APR13X	California	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
489 \$86APR13XI	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
490 \$86APR17X	CDP Research	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
491 \$86APR18XI	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
492 \$86APR23XI	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
493 \$86APR28XI	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
494 \$86MAY02XI	CDP Pacific	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
495 \$86MAY03XI	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
496 \$86MAY08XI	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
497 \$86MAY13XI	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
498 \$86MAY14X	CDP Atlantic	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
499 \$86MAY17XI	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
500 \$86MAY18X	California	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
501 \$86MAY21X	California	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
502 \$86MAY23XI	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
503 \$86MAY28XI	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
504 \$86MAY29X	CDP Research	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
505 \$86JUN02XI	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
506 \$86JUN07XI	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
507 \$86JUN11X	CDP Research	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
508 \$86JUN12XI	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
509 \$86JUN13X	CDP Pacific	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
510 \$86JUN16X	CDP Atlantic	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
511 \$86JUN17XI	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
512 \$86JUN18X	CDP Polar	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
513 \$86JUN22XI	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
514 \$86JUN27XI	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
515 \$86JUL02XI	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
516 \$86JUL05X	CDP Pacific	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2.1 (continued)

Experiment name	Experiment type	ACDDD	EFGGH	HHHK	KKKLM	MMMMN	NNNOO	PPRSS	SSUWV	ABBBB	CCDEF	FFFGG	HHJKL	MMMMM	MMMMN	OPPPP	PPPQS	SSSST	TTTTV	VVVVV	W	Y	
517 \$86JUL07XI IRIS-A	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
518 \$86JUL12X CDP Pacific	CDP Pacific	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
519 \$86JUL12XI IRIS-A	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
520 \$86JUL16X CDP Research	CDP Research	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
521 \$86JUL17XI IRIS-A	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
522 \$86JUL22X Alaska	Alaska	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
523 \$86JUL22XI IRIS-A	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
524 \$86JUL24X Alaska	Alaska	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
525 \$86JUL26X CDP Pacific	CDP Pacific	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
526 \$86JUL27XI IRIS-A	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
527 \$86JUL31X Alaska	Alaska	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
528 \$86AUG01XI IRIS-A	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
529 \$86AUG02X CDP Pacific	CDP Pacific	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
530 \$86AUG06XI IRIS-A	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
531 \$86AUG11X Alaska	Alaska	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
532 \$86AUG11XI IRIS-A	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
533 \$86AUG13X Alaska	Alaska	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
534 \$86AUG14X CDP Research	CDP Research	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
535 \$86AUG16XI IRIS-A	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
536 \$86AUG18X Alaska	Alaska	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
537 \$86AUG20X Alaska	Alaska	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
538 \$86AUG21XI IRIS-A	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
539 \$86AUG25X CDP Atlantic	CDP Atlantic	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
540 \$86AUG26XI IRIS-A	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
541 \$86AUG27X* NGS NCHN	NGS NCHN	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
542 \$86AUG31XI IRIS-A	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
543 \$86SEP05X CDP Pacific	CDP Pacific	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
544 \$86SEP05XI IRIS-A	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
545 \$86SEP10XI IRIS-A	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
546 \$86SEP15XI IRIS-A	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
547 \$86SEP16X CDP Atlantic	CDP Atlantic	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
548 \$86SEP17X CDP Research	CDP Research	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
549 \$86SEP20XI IRIS-A	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
550 \$86SEP25XI IRIS-A	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
551 \$86SEP30XI IRIS-A	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
552 \$86OCT05XI IRIS-A	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
553 \$86OCT09X CDP Research	CDP Research	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
554 \$86OCT10XI IRIS-A	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
555 \$86OCT15XI IRIS-A	IRIS-A	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
556 \$86OCT16X CDP Atlantic	CDP Atlantic	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2.1 (continued)

Experiment name	Experiment type	ACDD	EFGGH	HHHK	KKLM	MMMN	NNOO	ORRV	IIOA	PRSS	SSUW	ABBB	CCDEF	FFGG	HHJKL	MMMM	MMNO	OPPP	PPQS	SSST	TTTW	VWXY
557 \$860CT18X	Local Survey																					
558 \$860CT19X	California		*	*																		
559 \$860CT20X	Japan GSI																					
560 \$860CT20X1	IRIS-A						*															
561 \$860CT22X	California																					
562 \$860CT23X	CDP Pacific		*																			
563 \$860CT25X1	IRIS-A																					
564 \$860CT26X	California																					
565 \$860CT28X	CDP Research																					
566 \$860CT29X	California		*																			
567 \$860CT30X1	IRIS-A																					
568 \$860CT31X	N. Am. Plate		*																			
569 \$86NOV01X	California																					
570 \$86NOV03X	CDP Atlantic																					
571 \$86NOV04X	California																					
572 \$86NOV04X1	IRIS-A		*																			
573 \$86NOV05X	CDP Polar		*																			
574 \$86NOV07X	CDP Pacific		*																			
575 \$86NOV09X1	IRIS-A		*																			
576 \$86NOV12X	CDP Research		*																			
577 \$86NOV14X1	IRIS-A		*																			
578 \$86NOV19X1	IRIS-A		*																			
579 \$86NOV24X1	IRIS-A		*																			
580 \$86NOV29X1	IRIS-A		*																			
581 \$860EC04X1	IRIS-A		*																			
582 \$860EC05X	CDP Pacific		*																			
583 \$860EC08X	CDP Atlantic		*																			
584 \$860EC09X1	IRIS-A		*																			
585 \$860EC10X	California		*																			
586 \$860EC13X	California		*																			
587 \$860EC14X1	IRIS-A		*																			
588 \$860EC16X	California		*																			
589 \$860EC17X	CDP Research		*																			
590 \$860EC19X1	IRIS-A		*																			
591 \$860EC23X1	IRIS-A		*																			
592 \$860EC29X1	IRIS-A		*																			
593 \$87JAN03X1	IRIS-A		*																			
594 \$87JAN08X1	IRIS-A		*																			
595 \$87JAN13X1	IRIS-A		*																			
596 \$87JAN14X	CDP ATD		*																			

Table 2.1 (continued)

Experiment name	Experiment type	ACDD	FEFGH	HHHHK	KKKLM	MMMN	NNNOO	PPRSS	SSUUM	ABBBB	CCDEF	FFFGG	HHJKL	MMMMM	MMNNO	OPPPP	PPQQA	SSSST	TTTTV	VVVVV	Y
		LHSSS	FDIOA	AAORA	AAHAA	AAEOO	ORRNV	IIIOAE	EHSEE	UELLR	AAELL	OOTOR	AOPOE	ACEII	IOOOC	VBEIL	RTVUA	EINOI	RRSEI	NHAEI	U
		GLSSS	L-LLR	TYBAS	SUA-R	RTDJB	TAASR	ECBNS	SAUST	SRKOE	RRAYA	RRDRA	LHLDQ	MDTLY	ZJNMO	RLNNA	E EIN	ANDUT	OYURC	DTKLO	M
		OB146	SVCDT	CSASH	HAJVC	PEIAE	OOOAO	THLTH	TNDTT	IUMBT	NRD G	TT FS	EE IN	M SEA	U ET	OTFT	SRRAP	TTPRI	MSKNT	NHALW	A
		PO555	BLRVR	RTR I	ITALU	ORCVY	8L	OMEIA	GAZF	NDTI	SLA T	OR91E	KFVKD	T8QMA	GZE L	8SCAV	DYEYU	LTIOI	OLBLR	SIUAO	BOTO7
		AL	EBEEA	EATOM	M LBS	IATE	15A1	MOOAN	HGOE	TATN	TGN A	RD00	AR1 O	H5VOK	S8A L	50TTI	IES L	EUNGM	INNA I	RSGK9	
		RT	RAENO	EC283	A 2A	N N16	4 63	WN312	A4RL	X ED	YAL F	DS02	LG K	L0I0I	18K O	3MNSL	OS A	1 THA	OO A	GEANG	
		KN	G KU	KK654	6	T A2M	0300	D225	I DL	**	**	**	**	**	**	**	**	**	**	**	**
597	\$87JAN18XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
598	\$87JAN19XH	IRIS-South	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
599	\$87JAN20X	CDP Pacific	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
600	\$87JAN23XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
601	\$87JAN28X	California	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
602	\$87JAN28XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
603	\$87JAN29XH	IRIS-South	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
604	\$87JAN31X	California	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
605	\$87FEB02XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
606	\$87FEB03X	California	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
607	\$87FEB03XA	CDP Atlantic	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
608	\$87FEB04XH	IRIS-South	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
609	\$87FEB06X	California	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
610	\$87FEB07XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
611	\$87FEB08XH	IRIS-South	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
612	\$87FEB09X	California	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
613	\$87FEB12XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
614	\$87FEB17X	CDP Pacific	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
615	\$87FEB17XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
616	\$87FEB18XH	IRIS-South	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
617	\$87FEB22XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
618	\$87FEB23DX	Japan GSI	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
619	\$87FEB23XH	IRIS-South	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
620	\$87FEB24X	CDP ATD	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
621	\$87FEB27XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
622	\$87MAR04XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
623	\$87MAR09XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
624	\$87MAR14XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
625	\$87MAR19XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
626	\$87MAR22X	California	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
627	\$87MAR24X	CDP Pacific	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
628	\$87MAR24XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
629	\$87MAR25X	California	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
630	\$87MAR25XA	CDP Atlantic	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
631	\$87MAR26X	CDP ATD	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
632	\$87MAR28X	California	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
633	\$87MAR29XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
634	\$87APR03XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
635	\$87APR08XI	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
636	\$87APR09X	CDP Atlantic	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Table 2.1 (continued)

Experiment name	Experiment type	ACDD	EFGGH	HHHK	KKLM	MMMN	NNNO	PPRS	SSUM	ABBB	CCDEF	FFGG	HHJKL	MMMM	MMMM	MMMM	PPPP	PPPP	SSST	TTTT	VVVV	YYYY	
637 \$87APR13XI IRIS-A																							
638 \$87APR14X CDP ATD																							
639 \$87APR18XI IRIS-A																							
640 \$87APR21X CDP Pacific																							
641 \$87APR23XI IRIS-A																							
642 \$87APR28XI IRIS-A																							
643 \$87APR29XP IRIS-Pacific																							
644 \$87MAY01X N. Am. Plate																							
645 \$87MAY02X N. Am. Plate																							
646 \$87MAY03XI IRIS-A																							
647 \$87MAY04X CDP Atlantic																							
648 \$87MAY06X Western US																							
649 \$87MAY07X CDP Pacific																							
650 \$87MAY08XI IRIS-A																							
651 \$87MAY10X Western US																							
652 \$87MAY13XI IRIS-A																							
653 \$87MAY14X California																							
654 \$87MAY17X California																							
655 \$87MAY18XI IRIS-A																							
656 \$87MAY21X California																							
657 \$87MAY23XI IRIS-A																							
658 \$87MAY24X CDP ATD																							
659 \$87MAY28XI IRIS-A																							
660 \$87MAY29XP IRIS-Pacific																							
661 \$87JUN02XI IRIS-A																							
662 \$87JUN06XI IRIS-A																							
663 \$87JUN09X CDP Pacific																							
664 \$87JUN12XI IRIS-A																							
665 \$87JUN17XI IRIS-A																							
666 \$87JUN18X CDP ATD																							
667 \$87JUN22XI IRIS-A																							
668 \$87JUN23X CDP Atlantic																							
669 \$87JUN24X CDP Polar																							
670 \$87JUN27XI IRIS-A																							
671 \$87JUN28XP IRIS-Pacific																							
672 \$87JUL02XI IRIS-A																							
673 \$87JUL07XI IRIS-A																							
674 \$87JUL08X CDP ATD																							
675 \$87JUL11X* NGS NCMN																							
676 \$87JUL12XI IRIS-A																							

Table 2.1 (continued)

Experiment name	Experiment type	ACDD	EFGGH	HHHK	KKLM	MMMN	NNOO	PPRS	SSUW	ABBB	CCDEF	FFFG	HHJKL	MMMM	MMNO	OPPP	PPQS	SSST	TTTTV	WYYY	Z
677 \$87JUL15X Alaska			*	*	*	*															
678 \$87JUL17X Alaska			*	*	*	*															
679 \$87JUL17X1 IRIS-A			*	*	*	*															
680 \$87JUL18X CDP Pacific			*	*	*	*															
681 \$87JUL18X* NGS NCMN			*	*	*	*															
682 \$87JUL21XP IRIS-Pacific			*	*	*	*															
683 \$87JUL22X1 IRIS-A			*	*	*	*															
684 \$87JUL23X CDP Pacific			*	*	*	*															
685 \$87JUL25X Alaska			*	*	*	*															
686 \$87JUL27X1 IRIS-A			*	*	*	*															
687 \$87AUG01X CDP Pacific			*	*	*	*															
688 \$87AUG01X1 IRIS-A			*	*	*	*															
689 \$87AUG02X* NGS NCMN			*	*	*	*															
690 \$87AUG04X* NGS NCMN			*	*	*	*															
691 \$87AUG05X* NGS NCMN			*	*	*	*															
692 \$87AUG06X1 IRIS-A			*	*	*	*															
693 \$87AUG07X Alaska			*	*	*	*															
694 \$87AUG08X* NGS NCMN			*	*	*	*															
695 \$87AUG09X CDP Pacific			*	*	*	*															
696 \$87AUG11X1 IRIS-A			*	*	*	*															
697 \$87AUG13X Alaska			*	*	*	*															
698 \$87AUG14X Alaska			*	*	*	*															
699 \$87AUG16X1 IRIS-A			*	*	*	*															
700 \$87AUG19X* NGS NCMN			*	*	*	*															
701 \$87AUG20X Alaska			*	*	*	*															
702 \$87AUG21X Alaska			*	*	*	*															
703 \$87AUG21X1 IRIS-A			*	*	*	*															
704 \$87AUG22X CDP ATD			*	*	*	*															
705 \$87AUG24X* NGS NCMN			*	*	*	*															
706 \$87AUG25X CDP Atlantic			*	*	*	*															
707 \$87AUG26X1 IRIS-A			*	*	*	*															
708 \$87AUG27XP IRIS-Pacific			*	*	*	*															
709 \$87AUG31X1 IRIS-A			*	*	*	*															
710 \$87SEP05X1 IRIS-A			*	*	*	*															
711 \$87SEP10X1 IRIS-A			*	*	*	*															
712 \$87SEP11X CDP ATD			*	*	*	*															
713 \$87SEP15X1 IRIS-A			*	*	*	*															
714 \$87SEP16X CDP Atlantic			*	*	*	*															
715 \$87SEP20X1 IRIS-A			*	*	*	*															
716 \$87SEP23X CDP Pacific			*	*	*	*															

Table 2.1 (continued)

Experiment name	Experiment type	ACDD	EFGG	HHHK	KKKL	MMMM	NNNO	ORRN	PRSS	SSUM	ABBB	CCDF	FFFG	HHJK	MMMM	MMNO	OPPP	PPPQ	SSST	TTTT	VVVV	YYYY	
717 \$87SEP25X1	IRIS-A																						
718 \$87SEP26XP	IRIS-Pacific																						
719 \$87SEP30X1	IRIS-A																						
720 \$87OCT05X1	IRIS-A																						
721 \$87OCT10X1	IRIS-A																						
722 \$87OCT15X	California																						
723 \$87OCT15X1	IRIS-A																						
724 \$87OCT16X	CDP Atlantic																						
725 \$87OCT18X	California																						
726 \$87OCT19X	CDP Pacific																						
727 \$87OCT20X1	IRIS-A																						
728 \$87OCT21X	California																						
729 \$87OCT21XP	IRIS-Pacific																						
730 \$87OCT22X	CDP ATD																						
731 \$87OCT24X	California																						
732 \$87OCT25X1	IRIS-A																						
733 \$87OCT27X	Local Survey																						
734 \$87OCT28X	California																						
735 \$87OCT30X1	IRIS-A																						
736 \$87OCT31X	N. Am. Plate																						
737 \$87NOV01X	Local Survey																						
738 \$87NOV03X	CDP Atlantic																						
739 \$87NOV04X1	IRIS-A																						
740 \$87NOV05X	CDP Polar																						
741 \$87NOV09X1	IRIS-A																						
742 \$87NOV10X	CDP ATD																						
743 \$87NOV14X1	IRIS-A																						
744 \$87NOV180X	Japan GSI																						
745 \$87NOV19X1	IRIS-A																						
746 \$87NOV23X	CDP Pacific																						
747 \$87NOV24X1	IRIS-A																						
748 \$87NOV250X	Japan GSI																						
749 \$87NOV29X1	IRIS-A																						
750 \$87NOV30XP	IRIS-Pacific																						
751 \$87DEC04X1	IRIS-A																						
752 \$87DEC05X	California																						
753 \$87DEC07X	CDP Pacific																						
754 \$87DEC08X	California																						
755 \$87DEC08XA	CDP Atlantic																						
756 \$87DEC09X1	IRIS-A																						

Table 2.1 (continued)

Experiment name	Experiment type	ACDD	EFGH	HHHK	KKLM	MMMN	NNNO	PRRS	SSUU	ABBB	CCDE	FFGG	HHJK	MMMM	MMNO	OPPP	PPQS	SSST	TTTT	VVYY	
757 \$87DEC11X	California																				
758 \$87DEC14X	California																				
759 \$87DEC14X1	IRIS-A		*																		
760 \$87DEC15X	CDP ATD																				
761 \$87DEC18X	IRIS-South		*																		
762 \$87DEC19X1	IRIS-A																				
763 \$87DEC20XP	IRIS-Pacific																				
764 \$87DEC21XH	IRIS-South		*																		
765 \$87DEC23X1	IRIS-A																				
766 \$87DEC29X1	IRIS-A		*																		
767 \$88JAN03X1	IRIS-A																				
768 \$88JAN07XH	IRIS-South		*																		
769 \$88JAN08X1	IRIS-A																				
770 \$88JAN12XH	IRIS-South		*																		
771 \$88JAN13X1	IRIS-A																				
772 \$88JAN16X	CDP Pacific		*																		
773 \$88JAN17XH	IRIS-South		*																		
774 \$88JAN18X1	IRIS-A																				
775 \$88JAN19XP	IRIS-Pacific		*																		
776 \$88JAN22XH	IRIS-South		*																		
777 \$88JAN23X1	IRIS-A																				
778 \$88JAN27X	CDP ATD		*																		
779 \$88JAN28X1	IRIS-A																				
780 \$88FEB02X	California		*																		
781 \$88FEB02X1	IRIS-A																				
782 \$88FEB03X	CDP Atlantic		*																		
783 \$88FEB05X	California		*																		
784 \$88FEB07X1	IRIS-A																				
785 \$88FEB08X	California		*																		
786 \$88FEB09DX	Japan GSI		*																		
787 \$88FEB10XO	USNO Test		*																		
788 \$88FEB11X	N. Am. Plate		*																		
789 \$88FEB12X1	IRIS-A		*																		
790 \$88FEB13X	California		*																		
791 \$88FEB14X	California		*																		
792 \$88FEB17X	California		*																		
793 \$88FEB17X1	IRIS-A		*																		
794 \$88FEB18X	California		*																		
795 \$88FEB20X	CDP Pacific		*																		
796 \$88FEB22X1	IRIS-A		*																		

Table 2.1 (continued)

Experiment name	Experiment type	ACDDD	EFGGH	HHHK	KKKLM	MMMN	NNNOO	PPRRS	SSUWJ	ABBB	CCDEF	FFGG	HHJKL	MMMM	MMNO	OPPP	PPQS	SSST	TTTTV	VVVVY	
		LHSS	FDIOA	AAORA	AAMRA	AAEAO	ORRNV	IIOAE	ENSEE	UELLR	AAELL	OOTOR	AOPOE	ACEII	TOOOC	YBEIL	RTVUA	ETINDI	RRSEI	NHAEL	
		GLSS	L-LLR	TYBAS	SUA-R	RTDJB	TAASR	ECBNS	SAUST	SRKOE	RRAYA	RRORA	LHLDO	MDTLY	ZJNMO	RLNWA	E EIN	ANDUT	OYURC	DTKLO	
		OB146	SVCDD	CSASH	HJVC	PEIAE	OOOAO	THLTH	TNDTT	THBOS	NRD G	TT FS	EE IN	M SEA	U ET	OTFT	SRRNP	TTPRI	MSKNT	NHALW	
		PO555	BLRVR	RTR I	IIALU	ORCVY	BL	OMEIA	GAFFZ	IUUMT	UOM S	O77S	ANMAR	O7HSZ	S7P I	7SILT	IEDCA	TOODJ	SIUAO	BOTO7	
		AL	EBEEA	EATOM	M LBS	IAIE	15A1	WODAN	H6OE	NDTI	SLA T	OR91E	KFVKD	TBOMA	G2E L	BSCAV	DYEYU	LTIOI	DLBLR	ERAM2	
		RT	RAENO	EC283	A 2A	N N16	4 63	NN312	A4RL	TATN	TGN A	RD00	AR1 O	HSVOK	S8A L	50TTI	IES L	LEUNG	NNA I	RS9K9	
		KN	G KU	KK654	6	T A2M	0500	D225	I DL	X ED	YAL F	DS02	LG K	LOINI	I8K O	3MNSL	OS A	1 THA	OO A	GEAN6	
797	\$88FEB23XP	IRIS-Pacific	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
798	\$88FEB25XO	USNO Test	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
799	\$88FEB27X1	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
800	\$88MAR03X1	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
801	\$88MAR08X1	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
802	\$88MAR09X	CDP Atlantic	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
803	\$88MAR13X1	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
804	\$88MAR14XP	IRIS-Pacific	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
805	\$88MAR16XO	USNO Test	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
806	\$88MAR17X	CDP ATD	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
807	\$88MAR18X1	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
808	\$88MAR23X1	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
809	\$88MAR24XO	USNO Test	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
810	\$88MAR28X1	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
811	\$88MAR31XO	USNO Test	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
812	\$88APR02X1	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
813	\$88APR05X	CDP Research	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
814	\$88APR07X1	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
815	\$88APR09X	CDP Pacific	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
816	\$88APR12X1	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
817	\$88APR13X	CDP Atlantic	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
818	\$88APR15X*	NGS NCMN	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
819	\$88APR17X1	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
820	\$88APR18XP	IRIS-Pacific	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
821	\$88APR20X	N. Am. Plate	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
822	\$88APR21X	N. Am. Plate	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
823	\$88APR22X1	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
824	\$88APR25X	Western US	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
825	\$88APR27X1	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
826	\$88APR29X	Western US	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
827	\$88APR30X	Western US	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
828	\$88MAY01X	CDP Research	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
829	\$88MAY02X1	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
830	\$88MAY04X	California	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
831	\$88MAY05X	California	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
832	\$88MAY05XO	USNO Test	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
833	\$88MAY07X1	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
834	\$88MAY08X	California	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
835	\$88MAY12X1	IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
836	\$88MAY16X	CDP ATD	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Table 2.1 (continued)

ACDD	EFGGH	HHHK	KKLM	MMMN	NNNO	PPRS	SSUW	ABBB	CCDEF	FFGG	HHJKL	MMMM	MMNO	PPPP	PPQS	SSST	TTTTV	WYYY	Z
LHSS	FDIOA	AAORA	AAWAA	AAEOO	ARRNV	ITIOAE	EHSEE	UELLR	AAELL	OOTOR	AOPOE	ACEII	IOOOC	VBEIL	RTVUA	EINOI	RRSEI	NHAEL	U
GLSS	L-LLR	TYBAS	SUA-R	RTDJB	TAASR	ECBNS	SAUST	SRKOE	RRAYA	RRDRA	LHLDO	MDTLY	ZJNMO	RLNNA	E EIN	ANDUT	OYURC	DTKLO	M
OB146	SVCOT	CSASH	HAIJC	PEIAE	OOOAO	THLTH	TNDTT	TMBOS	NRD G	TT FS	EE IN	M SEA	U ET	OTFT	SRRNP	TPPRI	MSKNT	NHALW	A
POS55	BLVR	RTR I	IIALU	ORCVY	8L	OMELA	GAZ	TUJMT	UCM S	OT7S	ANMAR	07HSZ	S7P I	7SILT	IEDCA	TOODJ	SIUAO	BOTO7	
AL	EBEEA	EATOM	M LBS	IATE	15A1	WOODAN	H6OE	NDTI	SIA T	OR91E	KFVKD	TGOMA	G2E L	8SCAV	DYEYU	LTIOJ	OLBLR	ERAM2	
RT	RAENO	EC283	A 2A	N N16	4 63	NN312	A4RL	TATN	TGN A	RDOO	AR1 O	HSVOK	S8A L	5OTTI	IES L	EUNGM	NNA I	RSKG9	
KN	G KU	KK654	6	T A2M	0300	D225	I DL	X ED	YAL F	DS02	LG K	LOINI	I8K O	3MNSL	OS A	1 THA	OO A	GEAN6	
837	\$88MAY17X1	IRIS-A					**												
838	\$88MAY18XP	IRIS-Pacific																	
839	\$88MAY21X	CDP Pacific																	
840	\$88MAY22X1	IRIS-A					**												
841	\$88MAY22X0	USNO Test																	
842	\$88MAY23X	CDP Pacific					**												
843	\$88MAY27X1	IRIS-A					**												
844	\$88JUN01X1	IRIS-A					**												
845	\$88JUN04X	CDP Pacific					**												
846	\$88JUN05X0	USNO Test					**												
847	\$88JUN06X1	IRIS-A					**												
848	\$88JUN11X1	IRIS-A					**												
849	\$88JUN16X1	IRIS-A					**												
850	\$88JUN17X	CDP E. Atln.					**												
851	\$88JUN18X	CDP Polar					**												
852	\$88JUN21X1	IRIS-A					**												
853	\$88JUN22XP	IRIS-Pacific					**												
854	\$88JUN25X	Local Survey					**												
855	\$88JUN26X1	IRIS-A					**												
856	\$88JUL01X	Local Survey					**												
857	\$88JUL01X1	IRIS-A					**												
858	\$88JUL03X	Alaska					**												
859	\$88JUL04X	Alaska					**												
860	\$88JUL05X	Alaska					**												
861	\$88JUL06X1	IRIS-A					**												
862	\$88JUL08X	CDP ATD					**												
863	\$88JUL09X	CDP Pacific					**												
864	\$88JUL11X	Alaska					**												
865	\$88JUL11X1	IRIS-A					**												
866	\$88JUL12X	Alaska					**												
867	\$88JUL13X	Alaska					**												
868	\$88JUL16X	CDP Pacific					**												
869	\$88JUL16X1	IRIS-A					**												
870	\$88JUL16X0	USNO Test					**												
871	\$88JUL21X	Alaska					**												
872	\$88JUL21X1	IRIS-A					**												
873	\$88JUL22X	Alaska					**												
874	\$88JUL23X	Alaska					**												
875	\$88JUL24X	CDP Pacific					**												
876	\$88JUL25XP	IRIS-Pacific					**												

Table 2.1 (continued)

Experiment name	Experiment type	ACDD	EFGH	HHHK	KKLM	MMMN	NNOO	PPRS	SSUW	ABBB	CCDEF	FFFG	HHJK	MMMM	MMNO	OPPP	PPQS	SSST	TTTT	VVVV	YYYY
877 \$88JUL26XI IRIS-A																					
878 \$88JUL27X Alaska		*	*	*	*	*	*	*	*												
879 \$88JUL28X Alaska		*	*	*	*	*	*	*	*												
880 \$88JUL29X Alaska		*	*	*	*	*	*	*	*												
881 \$88JUL30X CDP Pacific		*	*	*	*	*	*	*	*												
882 \$88JUL31X CDP Pacific		*	*	*	*	*	*	*	*												
883 \$88JUL31XI IRIS-A		*	*	*	*	*	*	*	*												
884 \$88AUG03X Alaska		*	*	*	*	*	*	*	*												
885 \$88AUG04X Alaska		*	*	*	*	*	*	*	*												
886 \$88AUG05X Alaska		*	*	*	*	*	*	*	*												
887 \$88AUG05XI IRIS-A		*	*	*	*	*	*	*	*												
888 \$88AUG06X CDP Pacific		*	*	*	*	*	*	*	*												
889 \$88AUG10XI IRIS-A		*	*	*	*	*	*	*	*												
890 \$88AUG15XI IRIS-A		*	*	*	*	*	*	*	*												
891 \$88AUG20XI IRIS-A		*	*	*	*	*	*	*	*												
892 \$88AUG25DX Japan GSI		*	*	*	*	*	*	*	*												
893 \$88AUG25XI IRIS-A		*	*	*	*	*	*	*	*												
894 \$88AUG29XP IRIS-Pacific		*	*	*	*	*	*	*	*												
895 \$88AUG30XI IRIS-A		*	*	*	*	*	*	*	*												
896 \$88AUG31X CDP E. Atln.		*	*	*	*	*	*	*	*												
897 \$88SEP04XI IRIS-A		*	*	*	*	*	*	*	*												
898 \$88SEP08X CDP ATD		*	*	*	*	*	*	*	*												
899 \$88SEP09XI IRIS-A		*	*	*	*	*	*	*	*												
900 \$88SEP10XO USNO Test		*	*	*	*	*	*	*	*												
901 \$88SEP14XI IRIS-A		*	*	*	*	*	*	*	*												
902 \$88SEP17X CDP Pacific		*	*	*	*	*	*	*	*												
903 \$88SEP19XI IRIS-A		*	*	*	*	*	*	*	*												
904 \$88SEP20XP IRIS-Pacific		*	*	*	*	*	*	*	*												
905 \$88SEP21XO USNO Test		*	*	*	*	*	*	*	*												
906 \$88SEP24XI IRIS-A		*	*	*	*	*	*	*	*												
907 \$88SEP28XO USNO Test		*	*	*	*	*	*	*	*												
908 \$88SEP29XI IRIS-A		*	*	*	*	*	*	*	*												
909 \$88OCT04XI IRIS-A		*	*	*	*	*	*	*	*												
910 \$88OCT06DX Japan GSI		*	*	*	*	*	*	*	*												
911 \$88OCT06X Local Survey		*	*	*	*	*	*	*	*												
912 \$88OCT06XO USNO Test		*	*	*	*	*	*	*	*												
913 \$88OCT08X Local Survey		*	*	*	*	*	*	*	*												
914 \$88OCT09XI IRIS-A		*	*	*	*	*	*	*	*												
915 \$88OCT12DX Japan GSI		*	*	*	*	*	*	*	*												
916 \$88OCT13XP IRIS-Pacific		*	*	*	*	*	*	*	*												

Table 2.1 (continued)

Experiment name	Experiment type	ACDD	EFGG	IHHHK	KKKLM	MMMM	NNNO	PRSS	SSUW	ABBB	CCDEF	FFGG	HHJKL	MMMM	MMNO	OPPP	PPQS	SSST	TTTV	VVWXY	
917 \$880CT14X1 IRIS-A	IRIS-A			*	*																
918 \$880CT15X Western US	Western US			*	*																
919 \$880CT16X Western US	Western US			*	*																
920 \$880CT18X CDP Atlantic	CDP Atlantic	*				*															
921 \$880CT19X1 IRIS-A	IRIS-A			*	*																
922 \$880CT20X Western US	Western US			*	*																
923 \$880CT21X Western US	Western US			*	*																
924 \$880CT24X1 IRIS-A	IRIS-A			*	*																
925 \$880CT25X Western US	Western US			*	*																
926 \$880CT26X Western US	Western US			*	*																
927 \$880CT29X CDP Pacific	CDP Pacific	*				*															
928 \$880CT29X1 IRIS-A	IRIS-A			*	*																
929 \$880CT30X California	California			*	*																
930 \$880CT30X USNO Test	USNO Test	*				*															
931 \$880CT31X California	California			*	*																
932 \$88NOV01X N. Am. Plate	N. Am. Plate			*	*																
933 \$88NOV03X1 IRIS-A	IRIS-A			*	*																
934 \$88NOV04X California	California			*	*																
935 \$88NOV04XP IRIS-Pacific	IRIS-Pacific			*	*																
936 \$88NOV05X California	California			*	*																
937 \$88NOV06X CDP Research	CDP Research	*				*															
938 \$88NOV08X California	California			*	*																
939 \$88NOV08X1 IRIS-A	IRIS-A			*	*																
940 \$88NOV09X California	California			*	*																
941 \$88NOV09XA CDP E. Atln.	CDP E. Atln.	*				*															
942 \$88NOV10X CDP Polar	CDP Polar			*	*																
943 \$88NOV13X1 IRIS-A	IRIS-A			*	*																
944 \$88NOV18X1 IRIS-A	IRIS-A			*	*																
945 \$88NOV23X1 IRIS-A	IRIS-A			*	*																
946 \$88NOV28X1 IRIS-A	IRIS-A			*	*																
947 \$88NOV29X CDP ATD	CDP ATD	*				*															
948 \$88DEC03X1 IRIS-A	IRIS-A			*	*																
949 \$88DEC08X1 IRIS-A	IRIS-A			*	*																
950 \$88DEC10X CDP Pacific	CDP Pacific	*				*															
951 \$88DEC13X1 IRIS-A	IRIS-A			*	*																
952 \$88DEC14X CDP E. Atln.	CDP E. Atln.	*				*															
953 \$88DEC15X USNO Test	USNO Test			*	*																
954 \$88DEC18X1 IRIS-A	IRIS-A			*	*																
955 \$88DEC19XP IRIS-Pacific	IRIS-Pacific	*				*															
956 \$88DEC21X USNO Test	USNO Test			*	*																

Table 2.1 (continued)

ACDD	EFGH	HHHK	KKLM	MMMN	NNOO	PRRS	SSUW	ABBB	CCDEF	FFGG	HHJK	MMMM	MMNO	OPPP	PPQS	SSST	TTTW	VVVV	Y
LISS	FDIA	AAORA	AAEA	AAEO	ORRN	IOAE	EHSE	UELL	AAEL	OOTR	ADPO	ACEI	IOOC	VBEL	RTVU	EINO	RRSE	NHAE	U
GLSS	L-LLR	TYBAS	SUA-R	RTDJB	TAASR	ECBNS	SAUST	SRKOE	RRAYA	RRDRA	LHLD	MDTLY	ZJNMO	RLNNA	E EIN	ANDUT	OYURC	DTKLO	M
OB146	SVCDT	CSASH	HAJVC	PEIAE	OOAO	THLTH	TNDTT	TMBOS	NRD G	TT FS	EE IN	M SEA	U ET	OTFT	SRRNP	TTPRI	MSKNT	NHALW	A
POS55	BLVR	RTR I	I1ALU	ORCVY	8L	OMEIA	GAFZ	IUMBT	UOM S	077S	ANMAR	07HSZ	S7P 1	7SFLT	IEDCA	TOODJ	SUAUO	BOTO7	
AL	EBEEA	EATOM	M LBS	IATE	15A1	WODAN	HGOE	NDTI	SLA T	OR91E	KFKVD	T8OMA	GZE L	8SCAV	DYEYU	LTIOI	OLBLR	ERAM2	
RT	RAENO	EC283	A 2A	N N16	4 63	NK312	AARL	TATN	TGN A	R000	AR 1 O	H5VOK	S8A L	50TTI	IES L	EUNGM	NNA I	RS6K9	
KN	G KU	KK654	6	T A2M	0300	D225	I DL	X ED	YAL F	DS02	LG K	L01NI	18K O	3MNSL	OS A	1 THA	OO A	GEAM6	
957	\$88DEC23X1	IRIS-A																	
958	\$88DEC28X1	IRIS-A																	
959	\$89JAN02X1	IRIS-A																	
960	\$89JAN05X0	USNO NAVNET																	
961	\$89JAN07X1	IRIS-A																	
962	\$89JAN12X1	IRIS-A																	
963	\$89JAN13X	CDP Pacific																	
964	\$89JAN14X0	USNO NAVNET																	
965	\$89JAN17X1	IRIS-A																	
966	\$89JAN19X	California																	
967	\$89JAN20X	California																	
968	\$89JAN22X1	IRIS-A																	
969	\$89JAN23XP	IRIS-Pacific																	
970	\$89JAN24X	California																	
971	\$89JAN25X	California																	
972	\$89JAN27X1	IRIS-A																	
973	\$89JAN28X	California																	
974	\$89JAN29X	California																	
975	\$89FEB01X1	IRIS-A																	
976	\$89FEB02X	California																	
977	\$89FEB02XH	IRIS-South																	
978	\$89FEB03X	California																	
979	\$89FEB06X	California																	
980	\$89FEB06X1	IRIS-A																	
981	\$89FEB07X	California																	
982	\$89FEB07XH	IRIS-South																	
983	\$89FEB11X	California																	
984	\$89FEB11X1	IRIS-A																	
985	\$89FEB12X	California																	
986	\$89FEB16X1	IRIS-A																	
987	\$89FEB17XH	IRIS-South																	
988	\$89FEB18X	CDP Pacific																	
989	\$89FEB19X0	USNO NAVNET																	
990	\$89FEB20X	CDP E. Atln.																	
991	\$89FEB21X1	IRIS-A																	
992	\$89FEB26X1	IRIS-A																	
993	\$89FEB27XP	IRIS-Pacific																	
994	\$89MAR03X1	IRIS-A																	
995	\$89MAR04XH	IRIS-South																	
996	\$89MAR08X1	IRIS-A																	

Table 2.1 (continued)

Experiment name	Experiment type	ACDD	EFGGH	HHHK	KKLM	MMMN	NNNO	ORRN	PRRS	SSUJ	UELL	ABBB	CCDEF	FFGG	HHJKL	MMMM	MMNO	OPPP	PPPOS	SSST	TTTW	VVWY	Y
		FDIA	LAORA	AAHA	AAEO	ORRN	IIOAE	EHSEE	AEELL	OOOR	AAELL	OOOR	AAELL	OOOR	AAELL	OOOR	AAELL	OOOR	AAELL	OOOR	AAELL	OOOR	AAELL
		L-LLR	TYBAS	SUA-R	RTDJB	TAASR	ECBNS	SAUST	SRKOE	RRAYA	RRDRA	LHLD	OOE	ACEII	MMMM	MMNO	OPPP	PPPOS	SSST	TTTW	VVWY	Y	
		OB146	SVCDT	CSASH	HAJVC	PEIAE	THLTH	TNDTT	TMBOS	NRD G	TT FS	EE IN	M SEA	U ET	OTFT	SRNP	TPRI	MSKNT	NHALW	A			
		PO555	BLRVR	RTR I	ITALU	ORCVY	BL	ONETA	GAFZ	IUMJT	UOM S	077S	ANMAR	07HSZ	S7P I	7SILT	IEDCA	TOODJ	SIUAO	BO707			
		AL	EBEEA	EATOM	M LBS	IAIE	15A1	WODAN	HGOE	NDTI	SLA T	OR91E	KFVKD	T8OMA	G2E L	8SCAV	DYEYU	LTTOI	OLBLR	ERAW2			
		RT	RAENO	EC283	A 2A	N N16	4 63	NH312	AARL	TATN	TGN A	R000	AR1 O	H5VOK	S8A L	50TTI	IES L	EUNGH	NMA I	RSGK9			
		KN	G KU	KK654	6	T ACM	0300	D225	X ED	YAL F	DS02	LG K	L01NI	18K O	3MNSL	OS A	1	THA	OO A	GEAN6			
1037 \$89MAY30X	Local Survey			*		*		*		*		*		*		*		*		*		*	
1038 \$89MAY31X	Local Survey			*		*		*		*		*		*		*		*		*		*	
1039 \$89JUN01XI	IRIS-A			*		*		*		*		*		*		*		*		*		*	
1040 \$89JUN03X	CDP E. Atln.			*		*		*		*		*		*		*		*		*		*	
1041 \$89JUN04XO	USNO NAVNET			*		*		*		*		*		*		*		*		*		*	
1042 \$89JUN06XI	IRIS-A			*		*		*		*		*		*		*		*		*		*	
1043 \$89JUN10X	CDP Pacific			*		*		*		*		*		*		*		*		*		*	
1044 \$89JUN11XI	IRIS-A			*		*		*		*		*		*		*		*		*		*	
1045 \$89JUN16XI	IRIS-A			*		*		*		*		*		*		*		*		*		*	
1046 \$89JUN21X*	IRIS-A Eur.			*		*		*		*		*		*		*		*		*		*	
1047 \$89JUN22XP	IRIS-Pacific			*		*		*		*		*		*		*		*		*		*	
1048 \$89JUN23X*	Europe Mobil.			*		*		*		*		*		*		*		*		*		*	
1049 \$89JUN24X*	Europe Mobil.			*		*		*		*		*		*		*		*		*		*	
1050 \$89JUN25X*	Europe Mobil.			*		*		*		*		*		*		*		*		*		*	
1051 \$89JUN26X*	IRIS-A Eur.			*		*		*		*		*		*		*		*		*		*	
1052 \$89JUN27XO	USNO NAVNET			*		*		*		*		*		*		*		*		*		*	
1053 \$89JUL01XI	IRIS-A			*		*		*		*		*		*		*		*		*		*	
1054 \$89JUL02XO	USNO NAVNET			*		*		*		*		*		*		*		*		*		*	
1055 \$89JUL05X	Alaska			*		*		*		*		*		*		*		*		*		*	
1056 \$89JUL05X*	Europe Mobil.			*		*		*		*		*		*		*		*		*		*	
1057 \$89JUL06X	Alaska			*		*		*		*		*		*		*		*		*		*	
1058 \$89JUL06X*	IRIS-A Eur.			*		*		*		*		*		*		*		*		*		*	
1059 \$89JUL07X	Alaska			*		*		*		*		*		*		*		*		*		*	
1060 \$89JUL08X	CDP Pacific			*		*		*		*		*		*		*		*		*		*	
1061 \$89JUL08X*	Europe Mobil.			*		*		*		*		*		*		*		*		*		*	
1062 \$89JUL09X*	Europe Mobil.			*		*		*		*		*		*		*		*		*		*	
1063 \$89JUL09XO	USNO NAVNET			*		*		*		*		*		*		*		*		*		*	
1064 \$89JUL11X*	IRIS-A Eur.			*		*		*		*		*		*		*		*		*		*	
1065 \$89JUL13X	Alaska			*		*		*		*		*		*		*		*		*		*	
1066 \$89JUL14X	Alaska			*		*		*		*		*		*		*		*		*		*	
1067 \$89JUL15X	Alaska			*		*		*		*		*		*		*		*		*		*	
1068 \$89JUL16XI	IRIS-A			*		*		*		*		*		*		*		*		*		*	
1069 \$89JUL18XO	USNO NAVNET			*		*		*		*		*		*		*		*		*		*	
1070 \$89JUL21XI	IRIS-A			*		*		*		*		*		*		*		*		*		*	
1071 \$89JUL23XO	USNO NAVNET			*		*		*		*		*		*		*		*		*		*	
1072 \$89JUL24X	Alaska			*		*		*		*		*		*		*		*		*		*	
1073 \$89JUL25X	Alaska			*		*		*		*		*		*		*		*		*		*	
1074 \$89JUL26X	Alaska			*		*		*		*		*		*		*		*		*		*	
1075 \$89JUL26XI	IRIS-A			*		*		*		*		*		*		*		*		*		*	
1076 \$89JUL27XP	IRIS-Pacific			*		*		*		*		*		*		*		*		*		*	

Table 2.1 (continued)

ACDD	FEFGH	HHHK	KKLM	MMMN	NNNO	PRSS	SSUWV	ABBB	CCDEF	FFGG	HHJKL	MMMM	MMNO	OPPP	PPQS	SSST	TTTV	VVVV	Y
LHSS	FDIOA	AAORA	AAWA	AAEO	ORRV	IOAE	EHSE	UELLR	AAELL	OOTOR	AOPOE	ACEII	IOOOC	VBEIL	RTVUA	EINOI	RRSEI	NHAEL	U
GLSS	L-LLR	TYBAS	SUA-R	RTDJB	TAASR	ECBNS	SAUST	SRKOE	RRAYA	RRDRA	LHLDQ	MDTLY	ZUNMO	RLNNA	E EIN	ANDUT	OYURC	DTKLO	M
OB146	SVCOT	CSASH	HJVC	PEIAE	OOOAO	THLTH	TNDTT	TMBOB	NRD G	TT FS	EE IN	M SEA	U ET	OTFT	SRRNP	ITPRI	MSKNT	NHALW	A
PO555	BLVR	RTR I	IILALU	ORCVY	8L	OMEIA	GAZF	IUJMT	UOM S	O77S	ANMAR	O7HSZ	S7P I	7SILT	IEDCA	TOODJ	SUAO	BOTO7	
AL	EBEEA	EATOM	M LBS	IATE	15A1	WODAN	H6OE	NDTI	SIA T	OR91E	KFVKD	T8OMA	G2E L	8SCAV	DYEYU	LTIOI	OLBLR	ERAM2	
RT	RAENO	EC283	A 2A	N N16	4 63	NN312	A4RL	TATN	TGN A	RD00	AR1 O	H5VOK	S8A L	50TTI	IES L	LEUNGM	NNA I	RS9K9	
KN	G KU	KK654	6	T A2M	0300	D225	I DL	X ED	YAL F	DS02	LG K	LOINI	I8K O	3MNSL	OS A	1 THA	OO A	GEAN6	
1077	\$89JUL29X	CDP Research																	
1078	\$89JUL30X*	Europe Mobil.																	
1079	\$89JUL31X*	IRIS-A Eur.																	
1080	\$89AUG01X	Alaska																	
1081	\$89AUG01X*	Europe Mobil.																	
1082	\$89AUG02X	Alaska																	
1083	\$89AUG02X*	Europe Mobil.																	
1084	\$89AUG03X	Alaska																	
1085	\$89AUG04XO	USNO NAVNET																	
1086	\$89AUG05X1	IRIS-A																	
1087	\$89AUG07XO	USNO NAVNET																	
1088	\$89AUG08X	Alaska																	
1089	\$89AUG09X	Alaska																	
1090	\$89AUG10X	Alaska																	
1091	\$89AUG10X1	IRIS-A																	
1092	\$89AUG15X1	IRIS-A																	
1093	\$89AUG17XO	USNO NAVNET																	
1094	\$89AUG18X*	Europe Mobil.																	
1095	\$89AUG19X*	Europe Mobil.																	
1096	\$89AUG20X*	IRIS-A Eur.																	
1097	\$89AUG22X*	Europe Mobil.																	
1098	\$89AUG24XO	USNO NAVNET																	
1099	\$89AUG25X1	IRIS-A																	
1100	\$89AUG29X	CDP Research																	
1101	\$89AUG30X*	IRIS-A Eur.																	
1102	\$89AUG31XO	USNO NAVNET																	
1103	\$89SEP01X*	Europe Mobil.																	
1104	\$89SEP02X*	Europe Mobil.																	
1105	\$89SEP04X*	IRIS-A Eur.																	
1106	\$89SEP07XO	USNO NAVNET																	
1107	\$89SEP09X1	IRIS-A																	
1108	\$89SEP10XO	USNO NAVNET																	
1109	\$89SEP12X*	Europe Mobil.																	
1110	\$89SEP13X*	Europe Mobil.																	
1111	\$89SEP14X*	IRIS-A Eur.																	
1112	\$89SEP16X	CDP Pacific																	
1113	\$89SEP16X*	Europe Mobil.																	
1114	\$89SEP17XO	USNO NAVNET																	
1115	\$89SEP19X1	IRIS-A																	
1116	\$89SEP20XP	IRIS-Pacific																	

Table 2.1 (continued)

Experiment name	Experiment type	ACDD	EFGGH	HHHK	KKLM	MMMN	NNNO	PPRS	SSUW	ABBB	CCDEF	FFGG	HHJKL	MMMM	NNNO	OPPPP	PPPOS	SSST	TTTTV	WVYYY
1117 \$89SEP24XI	IRIS-A																			
1118 \$89SEP26X	CDP Pacific																			
1119 \$89SEP27XO	USNO NAVNET																			
1120 \$89SEP290X	Japan GSI																			
1121 \$89SEP29XI	IRIS-A																			
1122 \$89OCT04XI	IRIS-A																			
1123 \$89OCT05XO	USNO NAVNET																			
1124 \$89OCT08X	CDP Research																			
1125 \$89OCT09XI	IRIS-A																			
1126 \$89OCT10XP	IRIS-Pacific																			
1127 \$89OCT11X	Local Survey																			
1128 \$89OCT11XO	USNO NAVNET																			
1129 \$89OCT12X	Local Survey																			
1130 \$89OCT14XI	IRIS-A																			
1131 \$89OCT15X	CDP Research																			
1132 \$89OCT16X	CDP Research																			
1133 \$89OCT16XO	USNO NAVNET																			
1134 \$89OCT17X	CDP Research																			
1135 \$89OCT18X	CDP Research																			
1136 \$89OCT19XI	IRIS-A																			
1137 \$89OCT20X	California																			
1138 \$89OCT22X	CDP Research																			
1139 \$89OCT23X	California																			
1140 \$89OCT23XA	CDP Research																			
1141 \$89OCT23XO	USNO NAVNET																			
1142 \$89OCT24XI	IRIS-A																			
1143 \$89OCT25X	CDP Research																			
1144 \$89OCT26X	CDP Research																			
1145 \$89OCT27X	CDP Research																			
1146 \$89OCT28X	CDP Research																			
1147 \$89OCT29XI	IRIS-A																			
1148 \$89OCT30X	CDP Research																			
1149 \$89OCT30XO	USNO NAVNET																			
1150 \$89OCT31X	CDP Research																			
1151 \$89NOV01X	California																			
1152 \$89NOV02X	California																			
1153 \$89NOV03XI	IRIS-A																			
1154 \$89NOV05X	CDP Pacific																			
1155 \$89NOV06X	California																			
1156 \$89NOV07X	California																			

Table 2.1 (continued)

ACDDD	EFGGH	HHHKK	KKKLM	MMMMN	NNNOO	PPRSS	SSUUM	ABBBB	CCDEF	FFFGG	HHJKL	MMMMM	MMMNO	OPPPP	PPPQS	SSSST	TTTTV	VVVVV	WYYYY	Y
LHSS	FDIOA	AADRA	AHAA	AEOO	ORRV	IOAE	EHSEE	UELLR	AAELL	OOTOR	APOE	ACEII	IOOCC	VBEIL	RTVUA	EINOI	RRSEI	NHAEL	U	
GLSS	L-LLR	TYBAS	SUA-R	RTDJB	TAASR	ECBNS	SAUST	SRKOE	RRAYA	RRDRA	LHLOO	MDTLY	ZJNMO	RLNNA	E E IN	ANDUT	OYURC	DTKLO	M	
OB146	SVCDT	CSASH	HJVC	PETAE	OOOAO	THLTH	TNDTT	TMBOS	NRD G	TT FS	EE IN	M SEA	U ET	OTFT	SRRNP	TPPRI	MSKNT	NHALWA		
POS55	BLRVR	RTR I	ITALU	ORCVY	8L	OMEIA	GAFZ	IUUMT	UOM S	O77S	ANMAR	O7HSZ	S7P I	7SILT	IEDCA	TOOOJ	SIUAO	BOTO7		
AL	EBEA	EATOM	M LBS	IATE	15A1	WODAN	H6OE	NDTI	SIA T	OR9IE	KFVKD	T8OMA	G2E L	8SCAV	DYEYU	LTIOI	OLBLR	ERAWZ		
RT	RAENO	EC283	A 2A	N N16	4 63	NN312	A4RL	TATN	TGN A	RD00	AR1 O	H5VOK	S8A L	50TTI	IES L	EUNGM	NNA I	RSK9		
KN	G KU	KK654	6	T A2M	0300	D225	I DL	X ED	YAL F	DS02	LG K	LOINI	I8K O	3MNSL	OS A	1 THA	OO A	GEANG		

Experiment name Experiment type

- 1157 \$89NOV08XI IRIS-A
- 1158 \$89NOV09XO USNO NAVNET
- 1159 \$89NOV11X California
- 1160 \$89NOV12X California
- 1161 \$89NOV13XI IRIS-A
- 1162 \$89NOV16X California
- 1163 \$89NOV17X California
- 1164 \$89NOV18XI IRIS-A
- 1165 \$89NOV19XP IRIS-Pacific
- 1166 \$89NOV21XO USNO NAVNET
- 1167 \$89NOV23XI IRIS-A
- 1168 \$89NOV25X CDP Pacific
- 1169 \$89NOV26XO USNO NAVNET
- 1170 \$89NOV280X Japan GSI
- 1171 \$89NOV28XI IRIS-A
- 1172 \$89DEC03XI IRIS-A
- 1173 \$89DEC04XO USNO NAVNET
- 1174 \$89DEC12X CDP Polar
- 1175 \$89DEC13XI IRIS-A
- 1176 \$89DEC13XO USNO NAVNET
- 1177 \$89DEC17XO USNO NAVNET
- 1178 \$89DEC18X CDP Pacific
- 1179 \$89DEC18XI IRIS-A
- 1180 \$89DEC19XP IRIS-Pacific
- 1181 \$89DEC20XS Source Surv.
- 1182 \$89DEC21XH IRIS-South
- 1183 \$89DEC23XI IRIS-A
- 1184 \$89DEC27XO USNO NAVNET
- 1185 \$89DEC28XI IRIS-A
- 1186 \$90JAN02XI IRIS-A
- 1187 \$90JAN03XO USNO NAVNET
- 1188 \$90JAN07XI IRIS-A
- 1189 \$90JAN09X CDP Research
- 1190 \$90JAN10XO USNO NAVNET
- 1191 \$90JAN12XI IRIS-A
- 1192 \$90JAN15X California
- 1193 \$90JAN16X California
- 1194 \$90JAN17XI IRIS-A
- 1195 \$90JAN17XO USNO NAVNET
- 1196 \$90JAN18X CDP Pacific

Table 2.1 (continued)

Experiment name	Experiment type	ACDD	EFGGH	HHHK	KKLM	MMMN	NNOO	PPRS	SSUM	ABBB	CCDEF	FFGG	HHJKL	MMMM	NNNO	OPPP	PPQS	SSST	TTTT	VVVV	WYYY	Z	
1197 \$90JAN20X California		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1198 \$90JAN21X California		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1199 \$90JAN22XI IRIS-A		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1200 \$90JAN23XP IRIS-Pacific		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1201 \$90JAN24XO USNO NAVNET		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1202 \$90JAN25X California		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1203 \$90JAN26X Intra-Europe		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1204 \$90JAN26XA California		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1205 \$90JAN27XI IRIS-A		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1206 \$90JAN29XH IRIS-South		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1207 \$90JAN30X California		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1208 \$90JAN31X California		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1209 \$90JAN31XO USNO NAVNET		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1210 \$90FEB01XI IRIS-A		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1211 \$90FEB04X California		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1212 \$90FEB05X California		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1213 \$90FEB06XI IRIS-A		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1214 \$90FEB06XO USNO NAVNET		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1215 \$90FEB07XH IRIS-South		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1216 \$90FEB08XS Source Surv.		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1217 \$90FEB09X California		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1218 \$90FEB10X California		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1219 \$90FEB11XI IRIS-A		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1220 \$90FEB12XP IRIS-Pacific		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1221 \$90FEB13XP IRIS-Pacific		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1222 \$90FEB14XO USNO NAVNET		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1223 \$90FEB15X CDP Research		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1224 \$90FEB16XI IRIS-A		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1225 \$90FEB17XP IRIS-Pacific		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1226 \$90FEB18XP IRIS-Pacific		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1227 \$90FEB19XP IRIS-Pacific		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1228 \$90FEB20XO USNO NAVNET		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1229 \$90FEB21XI IRIS-A		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1230 \$90FEB26XI IRIS-A		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1231 \$90FEB28XO USNO NAVNET		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1232 \$90MAR03XI IRIS-A		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1233 \$90MAR07XO USNO NAVNET		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1234 \$90MAR08XI IRIS-A		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1235 \$90MAR13XI IRIS-A		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1236 \$90MAR14XO USNO NAVNET		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2.1 (continued)

Experiment name	Experiment type	ACDD	EFGGH	HHHK	KKLM	MMMN	NNNO	PPRSS	SSUWV	ABBBB	CCDEF	FFFGG	HHJKL	MMMMM	MMNNO	OPPPP	PPPQS	SSSST	TTTTV	VVVVY	Y
		FDIOA	AAORA	AAHAA	AAEOD	ORRNV	IIIOAE	EHSEE	UELLR	AAELL	OOTOR	AOPOE	ACEII	IOOCC	VBEIL	RTVUA	EINOI	RRSEI	NHAEI	U	
		L-LLR	TYBAS	SUA-R	RTDJB	TAASR	ECBNS	SAUST	SRKOE	RRAYA	RRDRA	LHLDQ	MDTLY	ZJNMO	E EIN	ANDUT	OYURC	DTKLO	M		
		OB146	SVCDD	CSASH	HJVC	PEIAE	OOOAO	THLTH	TMBOS	NRD G	TT FS	EE IN	M SEA	U ET	OTFT	SRRNP	TTPRI	MSKNT	NHALW	A	
		POS55	BLRVR	RTR I	ITALU	ORCVY	8L	OMEIA	LUUMT	UOM S	077S	ANMAR	07HSZ	S7P I	7SILT	IEDCA	TOODJ	SIUAO	BOTO7		
		AL	EBEEA	EATOM	M LBS	IATIE	15A1	W00AN	NDTI	SIA T	OR91E	KFVKD	T8OMA	G2E L	8SCAV	DYEYU	LTLOI	OLBLR	ERAM2		
		RT	RAENO	EC283	A 2A	N N16	4 63	NN312	TATN	TGN A	R000	AR1 O	HSVOK	S8A L	50TTI	IES L	EUNGM	NNA I	RS6K9		
		KN	G KU	KK654	6	T A2M	0300	D225	X ED	YAL F	DSO2	LG K	LOINI	18K O	3MNSL	OS A	1 THA	OO A	GEAN6		
1237	\$90MAR15XS Source Surv.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1238	\$90MAR18X1 IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1239	\$90MAR21X0 USNO NAVNET	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1240	\$90MAR22X CDP Pacific	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1241	\$90MAR23X1 IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1242	\$90MAR27XP IRIS-Pacific	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1243	\$90MAR28X1 IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1244	\$90MAR28X0 USNO NAVNET	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1245	\$90MAR29X CDP Research	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1246	\$90APR02X1 IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1247	\$90APR03X Ger. T. Asia	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1248	\$90APR04X0 USNO NAVNET	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1249	\$90APR07X1 IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1250	\$90APR11X0 USNO NAVNET	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1251	\$90APR12X1 IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1252	\$90APR13XP IRIS-Pacific	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1253	\$90APR16X0 USNO NAVEX	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1254	\$90APR17X1 IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1255	\$90APR18X CDP Global	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1256	\$90APR18X0 USNO NAVNET	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1257	\$90APR19X CDP Pacific	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1258	\$90APR22X1 IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1259	\$90APR23XH IRIS-South	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1260	\$90APR25X0 USNO NAVNET	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1261	\$90APR26X CDP Research	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1262	\$90APR26XS Source Surv.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1263	\$90APR27X1 IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1264	\$90MAY01X0 USNO NAVNET	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1265	\$90MAY02X1 IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1266	\$90MAY06XP IRIS-Pacific	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1267	\$90MAY07X1 IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1268	\$90MAY08X0 USNO NAVNET	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1269	\$90MAY08XX Ger. T. Asia	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1270	\$90MAY10DX Japan CRL	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1271	\$90MAY12X1 IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1272	\$90MAY14X CDP Research	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1273	\$90MAY15X0 USNO NAVNET	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1274	\$90MAY15XS Source Surv.	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1275	\$90MAY17X1 IRIS-A	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1276	\$90MAY21XH IRIS-South	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Table 2.1 (continued)

Experiment name	Experiment type	ACDD	EFGGH	HHHK	KKLM	MMMM	NNNO	ORRV	TAASR	OOAO	HLTH	NDTT	SSUW	ERSEE	ABBB	CCDEF	FFFG	HHJKL	MMMM	MMNO	OPPP	PPQS	SSST	TTTTV	VWXY	Z
1277 \$90MAY22XI IRIS-A																										
1278 \$90MAY22XO USNO NAVNET																										
1279 \$90MAY23X CDP Global																										
1280 \$90MAY24X Intra-Europe																										
1281 \$90MAY24XA CDP Global																										
1282 \$90MAY27XI IRIS-A																										
1283 \$90MAY30XO USNO NAVNET																										
1284 \$90JUN01XI IRIS-A																										
1285 \$90JUN04XO USNO NAVNET																										
1286 \$90JUN06XI IRIS-A																										
1287 \$90JUN08X Alaska																										
1288 \$90JUN09X Alaska																										
1289 \$90JUN10X Alaska																										
1290 \$90JUN11XI IRIS-A																										
1291 \$90JUN12XO USNO NAVNET																										
1292 \$90JUN16XI IRIS-A																										
1293 \$90JUN18X Alaska																										
1294 \$90JUN19X Alaska																										
1295 \$90JUN19XS Source Surv.																										
1296 \$90JUN20X Alaska																										
1297 \$90JUN21XI IRIS-A																										
1298 \$90JUN22XP IRIS-Pacific																										
1299 \$90JUN25X CDP Pacific																										
1300 \$90JUN25XH IRIS-South																										
1301 \$90JUN26XI IRIS-A																										
1302 \$90JUN26XO USNO NAVNET																										
1303 \$90JUN28X CDP Research																										
1304 \$90JUN28XA CDP Pacific																										
1305 \$90JUN29X Alaska																										
1306 \$90JUN30X Alaska																										
1307 \$90JUN30XA Japan CRL																										
1308 \$90JUL01XI IRIS-A																										
1309 \$90JUL02X Alaska																										
1310 \$90JUL05XO USNO NAVNET																										
1311 \$90JUL06XI IRIS-A																										
1312 \$90JUL09X Alaska																										
1313 \$90JUL09XO USNO NAVNET																										
1314 \$90JUL10X Alaska																										
1315 \$90JUL11XI IRIS-A																										
1316 \$90JUL12X Alaska																										

Table 2.1 (continued)

ACDD	EFGGH	HHHK	KKKLM	MMMM	NNNO	PPRSS	SSUW	ABBB	CCDEF	FFGG	HHJKL	MMMM	MMNO	OPPP	PPQS	SSST	TTTTV	VVVVY	
LHSS	FDIOA	AAORA	AAVA	AAEO	ORRN	IOAE	EHSE	UELLR	AAELL	COOR	AOPOE	ACEII	TOOOC	VBEIL	RTVUA	EINOI	RRSET	NHAEL	
GLSS	L-LLR	TYBAS	SUA-R	RTDJB	TAASR	ECBNS	SAUST	SRKOE	RRRAY	RRDRA	LHLD	MDTLY	ZJNMO	RLNMA	E EIN	ANDUT	OYURC	DTKLO	
OB146	SVCDD	CSASH	HJVC	PEIAE	OOOAO	THLTH	TNDTT	YMBOS	NRD G	TT FS	EE IN	M SEA	U ET	OTFT	SRRNP	TTPRI	MSKNT	NHALW	
PO555	BLRVR	RTR I	IIALU	ORCVY	8L	OMEIA	GAFZ	IUUMT	UOM S	O77S	ANMAR	O7NSZ	S7P I	7SILT	IEDCA	TOODJ	SIUAO	BOTO7	
AL	EBEEA	EATOM	M LBS	IAIE	15A1	WODAN	H6OE	NDTI	SLA T	OR9IE	KFKVD	T8OMA	G2E L	8SCAV	DYEYU	LTIOI	OLBLR	ERAM2	
RT	RAENO	EC283	A 2A	N N16	4 63	NN312	A4RL	TATN	TGN A	RD00	AR1 O	H5VOK	S8A L	50TTI	IES L	LEUNG	NNA I	RSGK9	
KN	G KU	KK654	6	T 2M	0300	D225	I DL	X ED	YAL F	DS02	LG K	LOINI	I8K O	3MNSL	OS A	1 THA	OO A	GEAN6	
1317	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1318	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1319	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1320	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1321	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1322	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1323	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1324	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1325	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1326	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1327	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1328	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1329	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1330	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1331	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1332	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1333	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1334	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1335	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1336	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1337	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1338	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1339	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1340	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1341	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1342	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1343	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1344	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1345	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1346	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1347	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1348	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1349	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1350	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1351	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1352	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1353	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1354	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1355	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1356	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Table 2.1 (continued)

Experiment name	Experiment type	ACDD	EFGG	HHHK	KKLM	MMMM	NNNO	PRSS	SSUW	UELL	ABBB	CCDF	FFGG	HHJK	MMMM	MMNO	OPPP	PPPS	SSST	TTTW	VWYY	
1357 \$90SEP04XO USNO MAVNET		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1358 \$90SEP05X Intra-Europe		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1359 \$90SEP06X N. Am. Plate		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1360 \$90SEP08XP IRIS-Pacific		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1361 \$90SEP09XI IRIS-A		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1362 \$90SEP10X CDP Research		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1363 \$90SEP10XA CDP PMS		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1364 \$90SEP11XO USNO MAVNET		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1365 \$90SEP13XS Source Surv.		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1366 \$90SEP14XI IRIS-A		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1367 \$90SEP19XI IRIS-A		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1368 \$90SEP20XO USNO MAVNET		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1369 \$90SEP24XI IRIS-A		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1370 \$90SEP25XO USNO MAVNET		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1371 \$90SEP27XH IRIS-South		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1372 \$90SEP29XI IRIS-A		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1373 \$90CT02XO USNO MAVNET		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1374 \$90CT04XI IRIS-A		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1375 \$90CT04XO USNO NAVEX		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1376 \$90CT05XP IRIS-Pacific		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1377 \$90CT07X California		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1378 \$90CT08X California		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1379 \$90CT09XI IRIS-A		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1380 \$90CT10X CDP Pacific		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1381 \$90CT11XO USNO MAVNET		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1382 \$90CT14XI IRIS-A		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1383 \$90CT15X Western US		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1384 \$90CT15XS Source Surv.		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1385 \$90CT16X Western US		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1386 \$90CT16XO USNO MAVNET		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1387 \$90CT18XH IRIS-South		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1388 \$90CT19XI IRIS-A		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1389 \$90CT21X Western US		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1390 \$90CT22X Western US		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1391 \$90CT22XO USNO MAVNET		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1392 \$90CT24XI IRIS-A		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1393 \$90CT25X CDP Research		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1394 \$90CT27X N. Am. Plate		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1395 \$90CT28X N. Am. Plate		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1396 \$90CT29XI IRIS-A		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

Table 2.1 (continued)

ACDD	LEFGH	MHHK	KKLM	MMMN	NNOO	PRSS	SSUW	ABBB	CCDEF	FFGG	HHJK	MMMM	MMNO	OPPP	PPQS	SSST	TTTT	VVVV	YYYY
LHSS	FDIOA	AAARA	AAWA	AAEO	ORRV	IIOA	EHSE	UELL	AAEL	OOTR	AOPD	ACEI	IOOC	VBEI	RTVU	EINO	RRSE	NHAE	U
GLSS	L-LLR	TYBAS	SUA-R	RTDJB	TAASR	ECBNS	SAUST	SRKOE	RRAYA	RRDRA	LHLD	MDTLY	ZJMM	RLNNA	E EIN	ANDUT	OYURC	DTKLO	M
OB146	SVCDT	CSASH	HJVC	PEIAE	OOOAO	THLTH	TNDIT	TMBOS	NRD G	TT FS	EE IN	M SEA	U ET	OTFT	SRRNP	TPPRI	MSKNT	NHALW	A
PO555	BLRVR	RTR I	ITALU	ORCVY	BL	OMEIA	GAZF	IUJMT	UOM S	077S	ANMAR	07HSZ	S7P I	7SILT	IEDCA	TOODJ	SIUAO	BOT07	
AL	EBEEA	EATOM	M LBS	IATIE	15A1	WOODAN	HGOE	NDTI	SLA T	OR91E	KFYKD	T8OMA	GZE L	8SCAV	DYEYU	LTIOI	OLBLR	ERAW2	
RT	RAENO	EC283	A 2A	N N16	4 63	NK312	A4RL	TATN	TGN A	R000	AR1 O	H5VOK	S8A L	50TTI	IES L	EUNGM	NNA I	RSGK9	
KN	G KU	KK654	6	T ACM	0300	D225	I DL	X ED	YAL F	DS02	LG K	LOINI	IBK O	3MNSL	OS A	1 THA	OO A	GEANG	
1397	\$90OCT31XO	USNO	NAVNET																
1398	\$90NOV03XI	IRIS-A																	
1399	\$90NOV05X	Western US																	
1400	\$90NOV06X	Western US																	
1401	\$90NOV06XO	USNO	NAVNET																
1402	\$90NOV07XS	Source Surv.																	
1403	\$90NOV08XI	IRIS-A																	
1404	\$90NOV08XO	USNO	NAVEX																
1405	\$90NOV10X	California																	
1406	\$90NOV11X	California																	
1407	\$90NOV13XI	IRIS-A																	
1408	\$90NOV14XO	USNO	NAVNET																
1409	\$90NOV17XP	IRIS-Pacific																	
1410	\$90NOV18XI	IRIS-A																	
1411	\$90NOV20XO	USNO	NAVNET																
1412	\$90NOV23XI	IRIS-A																	
1413	\$90NOV26XH	IRIS-South																	
1414	\$90NOV28XI	IRIS-A																	
1415	\$90NOV28XO	USNO	NAVNET																
1416	\$90NOV29X	CDP	Research																
1417	\$90DEC03XI	IRIS-A																	
1418	\$90DEC03XO	USNO	NAVEX																
1419	\$90DEC05XO	USNO	NAVNET																
1420	\$90DEC08XI	IRIS-A																	
1421	\$90DEC10XH	IRIS-South																	
1422	\$90DEC11XO	USNO	NAVNET																
1423	\$90DEC12XS	Source Surv.																	
1424	\$90DEC13XI	IRIS-A																	
1425	\$90DEC14X	CDP	Research																
1426	\$90DEC17XP	IRIS-Pacific																	
1427	\$90DEC18XI	IRIS-A																	
1428	\$90DEC18XO	USNO	NAVNET																
1429	\$90DEC20X	Intra-Europe																	
1430	\$90DEC23XI	IRIS-A																	
1431	\$90DEC26X	CDP	Pacific																
1432	\$90DEC27XO	USNO	NAVNET																
1433	\$90DEC28XI	IRIS-A																	
1434	\$91JAN02XI	IRIS-A																	
1435	\$91JAN03XO	USNO	NAVNET																
1436	\$91JAN06X	Intra-Europe																	

Table 2.1 (continued)

Experiment name	Experiment type	ACDD	EFGGH	HHHK	KKLH	MMMN	NNNO	PRRS	SSUJM	ABBB	CCDEF	FFFG	HHJKL	MMMM	MMMO	OPPP	PPQS	SSST	TTTTV	VVVVY	
		LHSS	FDIOA	AAORA	AAVA	AAEO	ORRV	ITOA	EHSEE	UELLR	AAELL	OOTOR	AOPOE	ACEII	IOOOC	VBEIL	RTVUA	EINOI	RRSEI	NHAEU	
		GLSS	L-LLR	TYBAS	SUA-R	RTDJB	TAASR	ECBNS	SAUST	SRKOE	RRAYA	RRDRA	LHDO	MDTLY	ZJNHO	RLMNA	E EIN	ANDUT	OYURC	DTKLO	
		OB146	SVCDT	CSASH	HJVC	PEIAE	OOOAO	THLTH	TNDTT	TMROS	NRD G	TT FS	EE IN	M SEA	U ET	OTFT	SRNP	TPPRI	MSKNT	NHALW	
		POS55	BLVR	RTR I	IIALU	ORCVY	8L	OMEIA	GAFZ	TUUMT	UOM S	077S	ANMAR	07HSZ	S7P I	7SILT	IEDCA	TOODJ	SUUAO	BOTO7	
		AL	EBEA	EATOM	M LBS	IATIE	15A1	WODAN	HGOE	NDTI	SLA T	OR91E	KFKVD	T8OMA	G2E L	8SCAV	DYEYU	LTIOI	OLBLR	ERAM2	
		RT	RAENO	EC283	A 2A	N N16	4 63	NN312	AARL	TATN	TGN A	RDOO	ART O	H5VOK	S8A L	SOTTI	IES L	EUNGM	NNA I	RSCK9	
		KN	G KU	KK654	6	T A2M	0300	D225	I DL	X ED	YAL F	DS02	LG K	L01NI	18K O	3MNSL	OS A	T THA	OO A	GEANG	
1437	\$91JAN07XI IRIS-A																				
1438	\$91JAN08XO USNO NAVNET		*																		
1439	\$91JAN09XS Source Surv.		*																		
1440	\$91JAN10XP IRIS-Pacific		*																		
1441	\$91JAN12XI IRIS-A		*																		
1442	\$91JAN15XO USNO NAVNET		*																		
1443	\$91JAN16XH IRIS-South		*																		
1444	\$91JAN17XI IRIS-A		*																		
1445	\$91JAN22XI IRIS-A		*																		
1446	\$91JAN22XO USNO NAVEX		*																		
1447	\$91JAN23XO USNO NAVNET		*																		
1448	\$91JAN27XI IRIS-A		*																		
1449	\$91JAN28XO USNO NAVNET		*																		
1450	\$91JAN30X CDP Research		*																		
1451	\$91FEB01XI IRIS-A		*																		
1452	\$91FEB04X CDP Pacific		*																		
1453	\$91FEB06XI IRIS-A		*																		
1454	\$91FEB07XO USNO NAVNET		*																		
1455	\$91FEB11XI IRIS-A		*																		
1456	\$91FEB11XO USNO NAVEX		*																		
1457	\$91FEB11XS Source Surv.		*																		
1458	\$91FEB12X CDP Research		*																		
1459	\$91FEB13XH IRIS-South		*																		
1460	\$91FEB13XO USNO NAVNET		*																		
1461	\$91FEB16XI IRIS-A		*																		
1462	\$91FEB19XO USNO NAVNET		*																		
1463	\$91FEB21XI IRIS-A		*																		
1464	\$91FEB24XP IRIS-Pacific		*																		
1465	\$91FEB26XI IRIS-A		*																		
1466	\$91FEB27XO USNO NAVNET		*																		
1467	\$91MAR03XI IRIS-A		*																		
1468	\$91MAR06XO USNO NAVNET		*																		
1469	\$91MAR08XI IRIS-A		*																		
1470	\$91MAR11XO USNO NAVNET		*																		
1471	\$91MAR12XE CDP Research		*																		
1472	\$91MAR13XI IRIS-A		*																		
1473	\$91MAR13XO USNO NAVEX		*																		
1474	\$91MAR14X CDP Research		*																		
1475	\$91MAR15XP IRIS-Pacific		*																		
1476	\$91MAR18XI IRIS-A		*																		

Table 2.1 (continued)

Experiment name	Experiment type	ACDD	EFGGH	HHHK	KKLM	MMMN	NNOO	PPRS	SSUM	ABBB	CCDEF	FFGG	HHJKL	MMMN	MMNO	OPPP	PPQS	SSST	TTTTV	VWXY	Y
1477 \$91MAR20XO USNO NAVNET			*		*		*														
1478 \$91MAR23XI IRIS-A			*	*	*		*														
1479 \$91MAR24X CDP Pacific			*	*	*		*														
1480 \$91MAR25XH IRIS-South			*	*	*		*														
1481 \$91MAR28X CDP Polar			*	*	*		*														
1482 \$91MAR28XI IRIS-A			*	*	*		*														
1483 \$91APR01XP IRIS-Pacific			*	*	*		*														
1484 \$91APR02XI IRIS-A			*	*	*		*														
1485 \$91APR02XO USNO NAVEX			*	*	*		*														
1486 \$91APR03XO USNO NAVNET			*	*	*		*														
1487 \$91APR07XI IRIS-A			*	*	*		*														
1488 \$91APR09XO USNO NAVNET			*	*	*		*														
1489 \$91APR12XI IRIS-A			*	*	*		*														
1490 \$91APR15X CDP T. Asia			*	*	*		*														
1491 \$91APR15XO USNO NAVNET			*	*	*		*														
1492 \$91APR16XT Local Survey			*	*	*		*														
1493 \$91APR17XI IRIS-A			*	*	*		*														
1494 \$91APR18X CDP Research			*	*	*		*														
1495 \$91APR22XI IRIS-A			*	*	*		*														
1496 \$91APR23XH IRIS-South			*	*	*		*														
1497 \$91APR25XO USNO NAVNET			*	*	*		*														
1498 \$91APR29XI IRIS-A			*	*	*		*														
1499 \$91MAY02XO USNO NAVNET			*	*	*		*														
1500 \$91MAY06XI IRIS-A			*	*	*		*														
1501 \$91MAY07XH IRIS-South			*	*	*		*														
1502 \$91MAY07XO USNO NAVEX			*	*	*		*														
1503 \$91MAY09XO USNO NAVNET			*	*	*		*														
1504 \$91MAY13XI IRIS-A			*	*	*		*														
1505 \$91MAY14XP IRIS-Pacific			*	*	*		*														
1506 \$91MAY15XS Source Surv.			*	*	*		*														
1507 \$91MAY16X Local Survey			*	*	*		*														
1508 \$91MAY16XO USNO NAVNET			*	*	*		*														
1509 \$91MAY20XI IRIS-A			*	*	*		*														
1510 \$91MAY21X CDP Research			*	*	*		*														
1511 \$91MAY23XO USNO NAVNET			*	*	*		*														
1512 \$91MAY27XI IRIS-A			*	*	*		*														
1513 \$91MAY30X Local Survey			*	*	*		*														
1514 \$91MAY30XO USNO NAVNET			*	*	*		*														
1515 \$91JUN03X CDP Pacific			*	*	*		*														
1516 \$91JUN03XI IRIS-A			*	*	*		*														

Table 2.1 (continued)

ACDDD	EFGGH	HHHHK	KKKLM	MMMMN	NNNOO	PPRRS	SSUMW	ABBBB	CCDEF	FFGGG	HHJKL	MMMMN	OOPPP	PPPQS	SSSST	TTTTV	VVVVY	
LHSSS	FDIOA	AAORA	AAAWA	AAEOO	ORRNV	IIOAE	ENSEE	UELLR	AAELL	OOTOR	AOPOE	ACEII	IOOOC	RTVUA	EINOI	RRSEI	NHAEU	
GLSSS	L-LLR	TYBAS	SUA-R	RTDJB	TAASR	ECBNS	SAUST	SRKOE	RRAYA	RRDRA	LHLDL	MOTLY	ZJNHO	E ETN	ANDUT	OYURC	DTKLO	
OB146	SYCDT	CSASH	HJVC	PEIAE	OOOAO	THLTH	TNDTT	TBOS	NRD G	TT FS	EE IN	M SEA	U ET	SRRNP	TPPRI	MSKNT	NHALW	
PO555	BLRVR	RTR I	IIALU	ORCVY	BL	OMEIA	GAFFZ	NDTI	SLA T	OR91E	KFKVD	T8OMA	G2E L	DYEYU	LTIOI	OLBLR	ERAM2	
AL	EBEEA	EATOM	M LBS	IATE	15A1	WODAN	H6OE	TATN	TGN A	RD00	AR1 O	H5YOK	S8A L	IES L	EUNGM	NNA I	RSGK9	
RT	RAENO	EC283	A 2A	N N16	4 63	NN312	A4RL	X ED	YAL F	DS02	LG K	L0INI	I8K O	3MNSL	OS A	1 THA	OO A	
KN	G KU	KK654	6	T A2M	0300	DZ25	I DL											
1517	\$91JUN04X	Local Survey																
1518	\$91JUN06XO	USNO NAVNET																
1519	\$91JUN10X1	IRIS-A																
1520	\$91JUN11XH	IRIS-South																
1521	\$91JUN11XO	USNO NAVEX																
1522	\$91JUN13XO	USNO NAVNET																
1523	\$91JUN17X1	IRIS-A																
1524	\$91JUN20XO	USNO NAVNET																
1525	\$91JUN24X1	IRIS-A																
1526	\$91JUN24XS	Source Surv.																
1527	\$91JUN25XP	IRIS-Pacific																
1528	\$91JUN27XO	USNO NAVNET																
1529	\$91JUN28X	CDP Research																
1530	\$91JUN30X	W. Canada																
1531	\$91JUL01X1	IRIS-A																
1532	\$91JUL02XO	USNO NAVNET																
1533	\$91JUL08X1	IRIS-A																
1534	\$91JUL08XS	Source Surv.																
1535	\$91JUL09XP	IRIS-Pacific																
1536	\$91JUL10X	CDP Research																
1537	\$91JUL11XO	USNO NAVNET																
1538	\$91JUL12X	MOBL 91A																
1539	\$91JUL13X	MOBL 91A																
1540	\$91JUL15X1	IRIS-A																
1541	\$91JUL16XH	IRIS-South																
1542	\$91JUL16XO	USNO NAVEX																
1543	\$91JUL17X	MOBL 91B																
1544	\$91JUL18X	CDP T. Asia																
1545	\$91JUL18XA	MOBL 91B																
1546	\$91JUL19XO	USNO NAVNET																
1547	\$91JUL21X1	IRIS-A																
1548	\$91JUL22X	MOBL 91C																
1549	\$91JUL23X	MOBL 91C																
1550	\$91JUL25XO	USNO NAVNET																
1551	\$91JUL27X	MOBL 91D																
1552	\$91JUL28X	MOBL 91D																
1553	\$91JUL29X1	IRIS-A																
1554	\$91JUL30X	N. Am. Plate																
1555	\$91AUG01XO	USNO NAVNET																
1556	\$91AUG02X	W. Canada																

Table 2.1 (continued)

ACDD	EFGG	HHHK	KKLM	MMMN	NNNO	PRSS	SSUU	ABBB	CCDE	FFGG	HHJK	MMMN	MMNO	OPPP	PPPS	SSST	TTTT	VVYY	
LHSS	FDIA	AAOA	AAEA	AEOO	ORRV	IOAE	EHSE	UELL	AEEL	OOTR	ADPO	ACEI	IOOC	VBEI	RTVU	EINO	RRSE	NHAE	
GLSS	L-LR	TYBA	SUA-R	RTDJB	TAASR	ECBNS	SAUST	SRKOE	RRAYA	RRDRA	LHLD	MDTL	ZJNM	RLNA	E EIN	ANDU	OYUR	DTKLO	
OB146	SVCDT	CSASH	HAJVC	PETA	OOOAO	THLTH	TNDTT	TMBOS	NRD G	TT FS	EE IN	M SEA	U ET	OTFT	SRRNP	TTPRI	MSKNT	NHALW	
POS55	BLVR	RTR I	IIALU	ORCVY	8L	OMEIA	GAZ	IUUMT	UOM S	077S	ANMAR	07HSZ	S7P I	7SILT	IEDCA	TOODJ	SIUAO	BOTO7	
AL	EBEEA	EATOM	M LBS	IATE	15A1	WOODAN	H6OE	NDTI	SLA T	OR91E	KFVKD	T8OMA	G2E L	8SCAV	DYEYU	LTIIO	OLBLR	ERAM2	
RT	RAENO	EC283	A 2A	N N16	4 63	NN312	A4RL	TATN	TGN A	RD00	AR1 O	H5VOK	SBA L	5OTTI	IES L	EUNGM	NNA I	RSKG2	
KN	G KU	KK654	6	T A2N	0300	D225	I DL	X ED	YAL F	DS02	LG K	LOINI	I8K O	3MNSL	OS A	1 THA	OO A	GEANG	
1557	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1558	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1559	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1560	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1561	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1562	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1563	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1564	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1565	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1566	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1567	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1568	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1569	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1570	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1571	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1572	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1573	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1574	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1575	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1576	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1577	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1578	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1579	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1580	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1581	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1582	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1583	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1584	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1585	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1586	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1587	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1588	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1589	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1590	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1591	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1592	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1593	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1594	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1595	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
1596	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Table 2.1 (continued)

Experiment name	Experiment type	ACDD	EFGGH	IHHHK	KKKLM	MMMMN	NNNOO	PPRRS	SSUWV	ABBBB	CCDEF	FFFGG	HHJKL	MMMMM	NNMNO	OPPPP	PPQQS	SSSST	TTTTV	VVYYY	Z
1597 \$910CT14XI IRIS-A																					
1598 \$910CT15X CDP Research																					
1599 \$910CT16X CDP Research																					
1600 \$910CT17X USNO NAVNET																					
1601 \$910CT18X CDP Research																					
1602 \$910CT20X CDP Research																					
1603 \$910CT21XI IRIS-A																					
1604 \$910CT22X CDP Research																					
1605 \$910CT23X CDP Research																					
1606 \$910CT24X USNO NAVNET																					
1607 \$910CT25X N. Am. Plate																					
1608 \$910CT28XI IRIS-A																					
1609 \$910CT29XH IRIS-South																					
1610 \$910CT29XO USNO NAVEX																					
1611 \$910CT31XO USNO NAVNET																					
1612 \$91NOV01X CDP Research																					
1613 \$91NOV04XI IRIS-A																					
1614 \$91NOV07XO USNO NAVNET																					
1615 \$91NOV08X* Europe Mobil.																					
1616 \$91NOV11XI IRIS-A																					
1617 \$91NOV12XH IRIS-South																					
1618 \$91NOV12XO USNO NAVEX																					
1619 \$91NOV14XO USNO NAVNET																					
1620 \$91NOV15X* Europe Mobil.																					
1621 \$91NOV18XI IRIS-A																					
1622 \$91NOV19XO USNO NAVEX																					
1623 \$91NOV19XP IRIS-Pacific																					
1624 \$91NOV20XS Source Surv.																					
1625 \$91NOV21X CDP Global																					
1626 \$91NOV21XO USNO NAVNET																					
1627 \$91NOV24DX Japan GSI																					
1628 \$91NOV25XI IRIS-A																					
1629 \$91NOV26XO USNO NAVNET																					
1630 \$91DEC01X Intra-Europe																					
1631 \$91DEC02XI IRIS-A																					
1632 \$91DEC03XP IRIS-Pacific																					
1633 \$91DEC04X CDP Research																					
1634 \$91DEC05XO USNO NAVNET																					
1635 \$91DEC09XI IRIS-A Eur.																					
1636 \$91DEC10X CDP Polar																					

Table 2.1 (continued)

ACDD	EFGGH	HHRHK	KKKLM	MMMN	NNNO	PRRS	SSUW	ABBB	CCDEF	FFGG	HHJKL	MMMM	MMNO	OPPP	PPQS	SSST	TTTW	WYYY
LHSS	FD10A	AAORA	AAMAA	AEOO	ORRNV	IIOAE	EHSEE	UELLR	AOELL	OOTOR	AOPOE	ACEII	IOOOC	VBEIL	RTVUA	EINOI	RRSEI	NHAEU
GLSS	L-LLR	TYBAS	SUA-R	RTDJB	TAASR	ECBNS	SAUST	SRKOE	RRAYA	RRDRA	LHLDQ	MDTLY	ZJNMO	RLNNA	E EIN	ANDUT	OYURC	DTKLO
OB146	SVCOT	CSASH	HJVC	PEIAE	OOOAO	THLTH	TNDIT	TMBOS	NRD G	TT FS	EE IN	M SEA	U ET	OTFT	SRRNP	TPPRI	MSKNT	NHALW
POS55	BLRVR	RTR I	IIALU	ORCVY	8L	OMEIA	GA7Z	IUUMT	UOM S	O77S	ANMAR	O7HSZ	S7P I	7SILT	IEDCA	TOODJ	SIUAO	BOTOT
AL	EBEEA	EATOM	M LBS	IAIE	15A1	WODAN	H6OE	NDTI	SIA T	OR91E	KFKVD	T8OMA	G2E L	8SCAV	DYEYU	LTIOI	OLBLR	ERAVZ
RT	RAENO	EC283	A 2A	N N16	4 63	NN312	A4RL	TATN	TGN A	RD00	AR1 O	H5VOK	S8A L	50TTI	IES L	EUNGM	NNA I	RSGK9
KN	G KU	KK654	6	T A2W	0300	D225	I DL	X ED	YAL F	DS02	LG K	LOINI	IBK O	3MNSL	OS A	1 THA	OO A	GEANG

Experiment name Experiment type

- 1637 \$91DEC11XH IRIS-South
- 1638 \$91DEC11XO USNO NAVEX
- 1639 \$91DEC12XO USNO NAVNET
- 1640 \$91DEC14X* Europe Mobil.
- 1641 \$91DEC16XI IRIS-A
- 1642 \$91DEC17X CDP Global
- 1643 \$91DEC18X CDP Global
- 1644 \$91DEC19XO USNO NAVNET
- 1645 \$91DEC20X* Europe Mobil.
- 1646 \$91DEC23XI IRIS-A
- 1647 \$91DEC26XO USNO NAVNET
- 1648 \$91DEC30XI IRIS-A Eur.



3.0 Source Coordinates from Solution GLB867

Table 3.1 gives the estimated positions of the observed extragalactic radio sources. One-sigma standard statistical errors are given in units of seconds of time for right ascension and arcseconds for declination. The right ascension of 0420-014 was fixed at the indicated value in order to establish the right ascension origin in the celestial reference frame.

Table 3.1

VLBI Source Positions from GLB867								
Source Name	Right Ascension				Declination			
	Hr	Mn	Seconds	Uncert.	Deg	Mn	Seconds	Uncert.
0016+731	00	19	45.785518	.000021	73	27	30.01689	.00009
0039+230	00	42	4.544937	.000062	23	20	1.06172	.00083
0048-097	00	50	41.317288	.000003	-09	29	5.20943	.00011
0104-408	01	06	45.107956	.000029	-40	34	19.95896	.00098
0106+013	01	08	38.770938	.000001	01	35	.31786	.00010
0112-017	01	15	17.099715	.000047	-01	27	4.57645	.00064
0119+041	01	21	56.861546	.000001	04	22	24.73535	.00010
0123+257	01	26	42.792384	.000066	25	59	1.30172	.00091
0133+476	01	36	58.594439	.000009	47	51	29.10074	.00011
0146+056	01	49	22.370626	.000111	05	55	53.57050	.00136
0148+274	01	51	27.145920	.000054	27	44	41.79429	.00054
0149+218	01	52	18.058885	.000072	22	07	7.69925	.00078
0201+113	02	03	46.656875	.000012	11	34	45.41077	.00026
0202+149	02	04	50.413715	.000004	15	14	11.04458	.00011
0202+319	02	05	4.929047	.004025	32	12	30.10000	.00811
0208-512	02	10	46.200552	.000013	-51	01	1.88998	.00015
0212+735	02	17	30.812467	.000021	73	49	32.62292	.00009
0215+015	02	17	48.954565	.000049	01	44	49.70112	.00059
4C67.05	02	28	50.050855	.000021	67	21	3.03057	.00015
0229+131	02	31	45.893876	.000002	13	22	54.71808	.00010
0234+285	02	37	52.405427	.000003	28	48	8.99169	.00009
0235+164	02	38	38.929905	.000003	16	36	59.27642	.00011
0237-233	02	40	8.174355	.000045	-23	09	15.72646	.00155
0256+075	02	59	27.076451	.000019	07	47	39.64519	.00054
0300+470	03	03	35.241876	.000007	47	16	16.27734	.00009
0308-611	03	09	56.099351	.000029	-60	58	39.05375	.00022
3C84	03	19	48.159784	.000008	41	30	42.10443	.00012
NRA0140	03	36	30.107384	.000013	32	18	29.34469	.00022
CTA26	03	39	30.937662	.000007	-01	46	35.80133	.00019
NRA0150	03	59	29.746926	.000008	50	57	50.16414	.00010
0402-362	04	03	53.749902	.000011	-36	05	1.90967	.00052
0420-014	04	23	15.800590	.000000	-01	20	33.06182	.00010
0422+004	04	24	46.841544	.000665	00	36	6.32283	.00681
3C120	04	33	11.095325	.000021	05	21	15.62206	.00055
0434-188	04	37	1.482613	.000011	-18	44	48.60893	.00032
0454-234	04	57	3.179133	.000003	-23	24	52.01592	.00011
0458-020	05	01	12.809751	.000005	-01	59	14.25227	.00020
0530-727	05	29	30.042400	.000055	-72	45	28.50392	.00027
0528+134	05	30	56.416596	.000002	13	31	55.15323	.00010
0537-441	05	38	50.361477	.000010	-44	05	8.93508	.00017

Table 3.1 (continued)

VLBI Source Positions from GLB867								
Source Name	Right Ascension				Declination			
	Hr	Mn	Seconds	Uncert.	Deg	Mn	Seconds	Uncert.
0537-286	05	39	54.281363	.000034	-28	39	55.94316	.00047
0552+398	05	55	30.805416	.000005	39	48	49.16853	.00009
0637-752	06	35	46.507868	.000033	-75	16	16.81163	.00014
0636+680	06	42	4.257264	.000083	67	58	35.62408	.00056
0642+449	06	46	32.025895	.000020	44	51	16.59323	.00031
0657+172	07	00	1.525404	.000005	17	09	21.70552	.00013
0716+714	07	21	53.448360	.000027	71	20	36.36690	.00013
0723-008	07	25	50.640351	.000653	-00	54	56.53248	.01021
0727-115	07	30	19.112329	.000001	-11	41	12.59604	.00010
0733-174	07	35	45.781446	.024735	-17	35	50.80319	1.18912
0735+178	07	38	7.393639	.000003	17	42	19.00221	.00010
0742+103	07	45	33.059382	.000002	10	11	12.69655	.00010
0743-006	07	45	54.082336	.000496	-00	44	17.53431	.00764
0745+241	07	48	36.109171	.000007	24	00	24.11382	.00013
0748+126	07	50	52.046084	.000299	12	31	4.83915	.00440
0754+100	07	57	6.643080	.000237	09	56	34.85857	.00328
0814+425	08	18	15.999562	.000009	42	22	45.41856	.00011
0820+560	08	24	47.236298	.000049	55	52	42.67327	.00034
0823+033	08	25	50.338242	.000002	03	09	24.52410	.00010
OJ287	08	54	48.874831	.000003	20	06	30.64439	.00009
0859+470	09	03	3.990093	.000012	46	51	4.14063	.00017
0919-260	09	21	29.353648	.000007	-26	18	43.38198	.00024
4C39.25	09	27	3.013868	.000005	39	02	20.85506	.00009
0925-203	09	27	51.824136	.000027	-20	34	51.22912	.00098
OK290	09	56	49.875316	.000004	25	15	16.05265	.00011
0954+658	09	58	47.245324	.000014	65	33	54.82076	.00009
1034-293	10	37	16.079497	.000005	-29	34	2.81010	.00011
1038+52A	10	41	46.781774	.000035	52	33	28.23300	.00048
1055+018	10	58	29.605089	.000002	01	33	58.82618	.00011
1057-797	10	58	43.308529	.000055	-80	03	54.15758	.00014
1104-445	11	07	8.693827	.000013	-44	49	7.61637	.00017
1123+264	11	25	53.711892	.000008	26	10	19.98053	.00017
1124-186	11	27	4.392238	.000008	-18	57	17.43971	.00033
1127-145	11	30	7.056113	.001572	-14	49	27.35547	.01274
1144+402	11	46	58.297971	.000006	39	58	34.30602	.00010
1144-379	11	47	1.370375	.000031	-38	12	11.02129	.00082
1150+812	11	53	12.500441	.000079	80	58	29.15541	.00021
1156+295	11	59	31.833907	.000004	29	14	43.82824	.00010
1219+285	12	21	31.690549	.000017	28	13	58.50156	.00061
1222+037	12	24	52.421771	.000015	03	30	50.29455	.00045

Table 3.1 (continued)

VLBI Source Positions from GLB867								
Source Name	Right Ascension				Declination			
	Hr	Mn	Seconds	Uncert.	Deg	Mn	Seconds	Uncert.
3C273B	12	29	6.699605	.000001	02	03	8.59964	.00010
3C274	12	30	49.423301	.000045	12	23	28.04599	.00050
1244-255	12	46	46.801803	.000013	-25	47	49.28771	.00048
3C279	12	56	11.166356	.000003	-05	47	21.52332	.00012
1308+326	13	10	28.663887	.000005	32	20	43.78312	.00010
1313-333	13	16	7.985648	.000051	-33	38	59.16933	.00220
3C286	13	31	8.228184	.001982	30	30	34.44441	.85338
1334-127	13	37	39.782594	.000002	-12	57	24.69255	.00010
1351-018	13	54	6.895164	.000167	-02	06	3.19031	.00057
1354+195	13	57	4.436616	.000005	19	19	7.37167	.00012
1354-152	13	57	11.244767	.000011	-15	27	28.78497	.00050
OQ208	14	07	.394404	.000003	28	27	14.68938	.00009
1418+546	14	19	46.597594	.000010	54	23	14.78627	.00010
1424-418	14	27	56.297198	.000011	-42	06	19.43806	.00018
OQ172	14	45	16.465251	.000064	09	58	36.07202	.00041
1502+106	15	04	24.979697	.000002	10	29	39.19738	.00010
1510-089	15	12	50.532770	.000003	-09	05	59.83045	.00012
1519-273	15	22	37.675778	.000012	-27	30	10.78581	.00079
1548+056	15	50	35.269137	.000002	05	27	10.44655	.00010
1606+106	16	08	46.203071	.000007	10	29	7.77390	.00016
CTD93	16	09	13.321256	.001100	26	41	28.99267	.03118
1611+343	16	13	41.064235	.000004	34	12	47.90675	.00009
1614+051	16	16	37.556723	.000028	04	59	32.73493	.00035
1610-771	16	17	49.275719	.000047	-77	17	18.47002	.00017
1622-253	16	25	46.891433	.000004	-25	27	38.32830	.00011
1624+416	16	25	57.669037	.000699	41	34	40.62728	.00166
1633+38	16	35	15.492954	.000005	38	08	4.49814	.00009
1637+574	16	38	13.456404	.000010	57	20	23.97653	.00010
NRA0512	16	40	29.632513	.000372	39	46	46.02600	.00087
1642+690	16	42	7.848740	.000019	68	56	39.75375	.00011
3C345	16	42	58.809945	.000005	39	48	36.99142	.00009
DA426	16	53	52.217040	.000881	39	45	36.60462	.00298
1656+053	16	58	33.447214	.000024	05	15	16.44151	.00042
NRA0530	17	33	2.705627	.000003	-13	04	49.55044	.00010
1739+522	17	40	36.977835	.000008	52	11	43.40452	.00009
1741-038	17	43	58.856006	.000001	-03	50	4.61913	.00010
1749+701	17	48	32.840109	.000133	70	05	50.76561	.00057
1749+096	17	51	32.818459	.000002	09	39	.72573	.00010
1803+784	18	00	45.684110	.000029	78	28	4.01524	.00009
3C371	18	06	50.680877	.000433	69	49	28.10597	.00133

Table 3.1 (continued)

VLBI Source Positions from GLB867								
Source Name	Right Ascension				Declination			
	Hr	Mn	Seconds	Uncert.	Deg	Mn	Seconds	Uncert.
1815-553	18	19	45.399338	.000021	-55	21	20.74832	.00020
1823+568	18	24	7.068310	.000015	56	51	1.48779	.00014
1831-711	18	37	28.715437	.000475	-71	08	43.55650	.00237
3C390.3	18	42	8.990831	.000550	79	46	17.12463	.00085
1921-293	19	24	51.055827	.000004	-29	14	30.12312	.00011
1923+210	19	25	59.605249	.000009	21	06	26.15893	.00020
1928+738	19	27	48.495045	.000026	73	58	1.56672	.00011
1954+513	19	55	42.738086	.000022	51	31	48.54299	.00021
1958-179	20	00	57.090327	.000003	-17	48	57.67485	.00012
2000-330	20	03	24.116293	.000412	-32	51	45.13077	.00675
2007+777	20	05	30.997359	.001261	77	52	43.24456	.00189
2008-159	20	11	15.710803	.000077	-15	46	40.25815	.00408
3C418	20	38	37.034527	.000009	51	19	12.65964	.00010
2113+293	21	15	29.413259	.000010	29	33	38.36425	.00027
2121+053	21	23	44.517240	.000001	05	35	22.09095	.00010
2126-158	21	29	12.175741	.000043	-15	38	41.04126	.00078
2128-123	21	31	35.261626	.000003	-12	07	4.79840	.00012
2134+00	21	36	38.586183	.000002	00	41	54.21158	.00011
2144+092	21	47	10.162755	.000259	09	29	46.66800	.00307
2145+067	21	48	5.458525	.000001	06	57	38.60212	.00010
2155-152	21	58	6.281737	.000027	-15	01	9.33033	.00051
VR422201	22	02	43.291112	.000006	42	16	39.97767	.00009
2201+315	22	03	14.975560	.000004	31	45	38.26766	.00010
2216-038	22	18	52.037607	.000001	-03	35	36.88090	.00010
CTA102	22	32	36.408739	.000005	11	43	50.90257	.00013
2234+282	22	36	22.470650	.000003	28	28	57.41156	.00009
2243-123	22	46	18.231882	.000008	-12	06	51.27841	.00027
3C454.3	22	53	57.747753	.000002	16	08	53.55937	.00009
2253+417	22	55	36.707554	.000019	42	02	52.53107	.00034
2255-282	22	58	5.962852	.000004	-27	58	21.25710	.00011
2326-477	23	29	17.704430	.000019	-47	30	19.11516	.00035
2345-167	23	48	2.608460	.000005	-16	31	12.02204	.00013
2352+495	23	55	9.594040	.004804	49	50	9.43609	.93849
2355-534	23	57	53.266264	.000036	-53	11	13.68972	.00051
2355-106	23	58	10.882316	.000006	-10	20	8.61063	.00031



4.0 Site Positions and Velocities from Solution GLB867

Table 4.1 gives geocentric Cartesian positions in mm, velocities in mm/yr, $1-\sigma$ standard statistical errors, and their correlations (in lower triangular form) for each site in the VLBI reference frame at the site reference epoch January 1, 1988. Some site velocities were not adjusted because of insufficient data, the corresponding velocity errors for these sites are zero.

The positions for HRAS 085 for every two months from April 1980 through July 1990 are given in Table 4.2. The continuous piecewise-linear method used to estimate these positions is described in the text. As no velocities were estimated for HRAS 085 only positions and their errors are shown.

Table 4.3 gives total site velocities and $1-\sigma$ standard statistical errors in local East, North, and Up coordinates as well as the corresponding horizontal rates and azimuths for each site from GLB867. These velocities, rates, and azimuths are also given as corrections relative to NUVEL. The length, azimuth, and elevation for each axis of the velocity error ellipsoid are given. As in Table 4.1 the sigmas and error ellipsoid parameters for sites whose velocities were not adjusted are zero.

Table 4.4 is the correlation matrix of all Cartesian site positions and velocities for GLB867. This table consists of two parts. The upper part shows a number which is associated with each component or velocity, the name of the component or velocity, and its sigma. The lower part of the table is the actual correlation matrix in lower triangular form. The rows of the matrix wrap around every 20th element. Table 4.4 is only available in machine-readable form in the file.

Table 4.1

Geocentric Cartesian Site Coordinates and Velocities from Global Solution 865									
ALGOPARK Coordinate Reference Epoch = 88 01 01									
7282	Value	Error	Correlation Matrix:						
X (mm)	918034964.7	.7	1.000						
Y (mm)	-4346132248.8	2.7	-.205	1.000					
Z (mm)	4561971070.9	2.6	.196	-.896	1.000				
X vel (mm/yr)	-17.5	.3	-.708	.107	-.061	1.000			
Y vel (mm/yr)	-4.0	.9	.095	-.803	.710	-.246	1.000		
Z vel (mm/yr)	3.4	.9	-.060	.719	-.783	.211	-.906	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
AUSTINTX Coordinate Reference Epoch = 88 01 01									
7271	Value	Error	Correlation Matrix:						
X (mm)	-737793684.4	3.7	1.000						
Y (mm)	-5459892244.8	16.1	.671	1.000					
Z (mm)	3202990419.8	9.5	-.617	-.891	1.000				
X vel (mm/yr)	.0	.0	.000	.000	.000	1.000			
Y vel (mm/yr)	.0	.0	.000	.000	.000	.000	1.000		
Z vel (mm/yr)	.0	.0	.000	.000	.000	.000	.000	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
BERMUDA Coordinate Reference Epoch = 88 01 01									
7294	Value	Error	Correlation Matrix:						
X (mm)	2307209618.5	8.3	1.000						
Y (mm)	-4874215877.4	27.9	-.940	1.000					
Z (mm)	3394317830.6	19.1	.918	-.980	1.000				
X vel (mm/yr)	.0	.0	.000	.000	.000	1.000			
Y vel (mm/yr)	.0	.0	.000	.000	.000	.000	1.000		
Z vel (mm/yr)	.0	.0	.000	.000	.000	.000	.000	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
BLKBUTTE Coordinate Reference Epoch = 88 01 01									
7269	Value	Error	Correlation Matrix:						
X (mm)	-2306306824.9	5.0	1.000						
Y (mm)	-4787914405.2	10.3	.947	1.000					
Z (mm)	3515736378.5	7.6	-.908	-.914	1.000				
X vel (mm/yr)	-17.4	3.5	.560	.542	-.500	1.000			
Y vel (mm/yr)	13.7	7.3	.539	.572	-.512	.960	1.000		
Z vel (mm/yr)	-13.4	5.2	-.516	-.532	.532	-.938	-.956	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
BLOOMIND Coordinate Reference Epoch = 88 01 01									
7291	Value	Error	Correlation Matrix:						
X (mm)	302384584.0	21.7	1.000						
Y (mm)	-4941699046.9	47.5	-.567	1.000					
Z (mm)	4007908419.6	37.1	-.545	-.142	1.000				
X vel (mm/yr)	.0	.0	.000	.000	.000	1.000			
Y vel (mm/yr)	.0	.0	.000	.000	.000	.000	1.000		
Z vel (mm/yr)	.0	.0	.000	.000	.000	.000	.000	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
BREST Coordinate Reference Epoch = 88 01 01									
7604	Value	Error	Correlation Matrix:						
X (mm)	4228877344.8	11.1	1.000						
Y (mm)	-333104403.2	2.5	-.097	1.000					
Z (mm)	4747180865.7	12.0	.890	-.121	1.000				
X vel (mm/yr)	.0	.0	.000	.000	.000	1.000			
Y vel (mm/yr)	.0	.0	.000	.000	.000	.000	1.000		
Z vel (mm/yr)	.0	.0	.000	.000	.000	.000	.000	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
CARNUSTY Coordinate Reference Epoch = 88 01 01									
7603	Value	Error	Correlation Matrix:						
X (mm)	3526416616.4	15.4	1.000						
Y (mm)	-171421305.1	3.9	.003	1.000					
Z (mm)	5294098730.4	20.9	.932	.033	1.000				
X vel (mm/yr)	.0	.0	.000	.000	.000	1.000			
Y vel (mm/yr)	.0	.0	.000	.000	.000	.000	1.000		
Z vel (mm/yr)	.0	.0	.000	.000	.000	.000	.000	1.000	
			X	Y	Z	X vel	Y vel	Z vel	

C-2

Table 4.1 (continued)

Geocentric Cartesian Site Coordinates and Velocities from Global Solution 865									
CARROLGA		Coordinate Reference Epoch = 88 01 01							
7228		Value	Error	Correlation Matrix:					
X (mm)		453520746.7	9.2	1.000					
Y (mm)		-5300506772.4	34.2	-.406	1.000				
Z (mm)		3507207367.6	20.6	.478	-.913	1.000			
X vel (mm/yr)		.0	.0	.000	.000	.000	1.000		
Y vel (mm/yr)		.0	.0	.000	.000	.000	.000	1.000	
Z vel (mm/yr)		.0	.0	.000	.000	.000	.000	.000	1.000
				X	Y	Z	X vel	Y vel	Z vel
CHLBOLTN		Coordinate Reference Epoch = 88 01 01							
7215		Value	Error	Correlation Matrix:					
X (mm)		4008310308.9	7.5	1.000					
Y (mm)		-100650970.6	3.7	-.556	1.000				
Z (mm)		4943794657.8	9.8	.780	-.526	1.000			
X vel (mm/yr)		.0	.0	.000	.000	.000	1.000		
Y vel (mm/yr)		.0	.0	.000	.000	.000	.000	1.000	
Z vel (mm/yr)		.0	.0	.000	.000	.000	.000	.000	1.000
				X	Y	Z	X vel	Y vel	Z vel
DEADMANL		Coordinate Reference Epoch = 88 01 01							
7267		Value	Error	Correlation Matrix:					
X (mm)		-2336819530.6	10.1	1.000					
Y (mm)		-4732586949.2	18.6	.946	1.000				
Z (mm)		3570329948.3	14.0	-.907	-.937	1.000			
X vel (mm/yr)		-42.4	10.8	.450	.430	-.400	1.000		
Y vel (mm/yr)		-37.1	20.7	.405	.435	-.399	.951	1.000	
Z vel (mm/yr)		24.3	14.6	-.403	-.428	.436	-.911	-.951	1.000
				X	Y	Z	X vel	Y vel	Z vel
DSS15		Coordinate Reference Epoch = 88 01 01							
7231		Value	Error	Correlation Matrix:					
X (mm)		-2353538627.7	3.5	1.000					
Y (mm)		-4641649501.0	7.2	.870	1.000				
Z (mm)		3676669970.9	6.5	-.729	-.828	1.000			
X vel (mm/yr)		-13.9	3.9	-.732	-.671	.538	1.000		
Y vel (mm/yr)		14.5	8.0	-.651	-.708	.617	.760	1.000	
Z vel (mm/yr)		-10.8	8.4	.444	.522	-.596	-.641	-.873	1.000
				X	Y	Z	X vel	Y vel	Z vel
DSS45		Coordinate Reference Epoch = 88 01 01							
1642		Value	Error	Correlation Matrix:					
X (mm)		-4460934878.7	11.9	1.000					
Y (mm)		2682765839.7	9.0	-.300	1.000				
Z (mm)		-3674381646.9	8.4	.040	.196	1.000			
X vel (mm/yr)		-31.9	3.9	-.744	.387	-.282	1.000		
Y vel (mm/yr)		3.9	3.1	.343	-.398	.367	-.419	1.000	
Z vel (mm/yr)		41.9	2.7	-.317	.360	-.262	.285	.086	1.000
				X	Y	Z	X vel	Y vel	Z vel
DSS65		Coordinate Reference Epoch = 88 01 01							
1665		Value	Error	Correlation Matrix:					
X (mm)		4849336901.7	5.0	1.000					
Y (mm)		-360489035.1	1.7	-.225	1.000				
Z (mm)		4114748663.3	6.2	.784	-.173	1.000			
X vel (mm/yr)		-9.0	3.5	-.848	-.064	-.719	1.000		
Y vel (mm/yr)		20.3	.7	-.125	-.466	.072	.130	1.000	
Z vel (mm/yr)		10.4	3.8	-.805	-.002	-.692	.954	.100	1.000
				X	Y	Z	X vel	Y vel	Z vel
EFLSBERG		Coordinate Reference Epoch = 88 01 01							
7203		Value	Error	Correlation Matrix:					
X (mm)		4033947725.2	3.2	1.000					
Y (mm)		486990293.7	1.5	-.194	1.000				
Z (mm)		4900430652.2	5.1	.577	-.258	1.000			
X vel (mm/yr)		-15.6	.8	.054	.113	-.144	1.000		
Y vel (mm/yr)		17.1	.5	-.003	-.178	.107	-.585	1.000	
Z vel (mm/yr)		6.0	1.2	-.018	.016	.128	.551	-.433	1.000
				X	Y	Z	X vel	Y vel	Z vel

Table 4.1 (continued)

Geocentric Cartesian Site Coordinates and Velocities from Global Solution 865									
ELY		Coordinate Reference Epoch = 88 01 01							
7286		Value	Error	Correlation Matrix:					
X (mm)	(mm)	-2077236173.5	3.3	1.000					
Y (mm)	(mm)	-4486712687.9	7.2	.917	1.000				
Z (mm)	(mm)	4018753705.0	6.1	-.868	-.895	1.000			
X vel (mm/yr)		-18.7	2.2	-.219	-.221	.204	1.000		
Y vel (mm/yr)		7.2	4.8	-.227	-.216	.207	.934	1.000	
Z vel (mm/yr)		-13.5	3.9	.215	.214	-.201	-.925	-.953	1.000
				X	Y	Z	X vel	Y vel	Z vel
FD-VLBA		Coordinate Reference Epoch = 88 01 01							
7513		Value	Error	Correlation Matrix:					
X (mm)	(mm)	-1324008969.4	5.3	1.000					
Y (mm)	(mm)	-5332181914.9	11.5	.407	1.000				
Z (mm)	(mm)	3231962426.0	8.3	-.386	-.676	1.000			
X vel (mm/yr)		.0	.0	.000	.000	.000	1.000		
Y vel (mm/yr)		.0	.0	.000	.000	.000	.000	1.000	
Z vel (mm/yr)		.0	.0	.000	.000	.000	.000	.000	1.000
				X	Y	Z	X vel	Y vel	Z vel
FLAGSTAF		Coordinate Reference Epoch = 88 01 01							
7261		Value	Error	Correlation Matrix:					
X (mm)	(mm)	-1923992544.5	3.9	1.000					
Y (mm)	(mm)	-4850854498.2	9.4	.908	1.000				
Z (mm)	(mm)	3658589255.9	7.2	-.870	-.905	1.000			
X vel (mm/yr)		-20.6	2.0	.169	.123	-.161	1.000		
Y vel (mm/yr)		-6.5	4.8	.118	.135	-.157	.927	1.000	
Z vel (mm/yr)		-2.5	3.7	-.146	-.148	.210	-.904	-.947	1.000
				X	Y	Z	X vel	Y vel	Z vel
FORT ORD		Coordinate Reference Epoch = 88 01 01							
7266		Value	Error	Correlation Matrix:					
X (mm)	(mm)	-2697026629.0	5.3	1.000					
Y (mm)	(mm)	-4354393280.7	8.5	.947	1.000				
Z (mm)	(mm)	3788077559.5	7.6	-.890	-.898	1.000			
X vel (mm/yr)		-34.6	2.8	.460	.432	-.399	1.000		
Y vel (mm/yr)		27.1	4.6	.431	.449	-.399	.960	1.000	
Z vel (mm/yr)		26.6	3.9	-.414	-.415	.428	-.943	-.954	1.000
				X	Y	Z	X vel	Y vel	Z vel
FORTORDS		Coordinate Reference Epoch = 88 01 01							
7241		Value	Error	Correlation Matrix:					
X (mm)	(mm)	-2699840120.9	7.1	1.000					
Y (mm)	(mm)	-4359127054.1	11.3	.956	1.000				
Z (mm)	(mm)	3781050907.7	9.5	-.914	-.923	1.000			
X vel (mm/yr)		-34.7	2.8	-.439	-.422	.425	1.000		
Y vel (mm/yr)		27.1	4.6	-.420	-.431	.430	.960	1.000	
Z vel (mm/yr)		26.6	3.9	.411	.417	-.444	-.943	-.954	1.000
				X	Y	Z	X vel	Y vel	Z vel
FORTORDS		Coordinate Reference Epoch = 88 01 01 Episodic date: 89 10 01							
7241		Value	Error	Correlation Matrix:					
X (mm)	(mm)	-2699840097.0	7.3	1.000					
Y (mm)	(mm)	-4359127031.3	11.6	.951	1.000				
Z (mm)	(mm)	3781050945.8	10.1	-.919	-.924	1.000			
X vel (mm/yr)		-34.7	2.8	-.875	-.843	.813	1.000		
Y vel (mm/yr)		27.1	4.6	-.840	-.866	.821	.960	1.000	
Z vel (mm/yr)		26.6	3.9	.819	.829	-.851	-.943	-.954	1.000
				X	Y	Z	X vel	Y vel	Z vel
FTD 7900		Coordinate Reference Epoch = 88 01 01							
7900		Value	Error	Correlation Matrix:					
X (mm)	(mm)	-1324227822.8	3.6	1.000					
Y (mm)	(mm)	-5332063036.1	12.7	.744	1.000				
Z (mm)	(mm)	3232023003.6	7.7	-.729	-.856	1.000			
X vel (mm/yr)		.0	.0	.000	.000	.000	1.000		
Y vel (mm/yr)		.0	.0	.000	.000	.000	.000	1.000	
Z vel (mm/yr)		.0	.0	.000	.000	.000	.000	.000	1.000
				X	Y	Z	X vel	Y vel	Z vel

Table 4.1 (continued)

Geocentric Cartesian Site Coordinates and Velocities from Global Solution 865									
GILCREEK		Coordinate Reference Epoch = 88 01 01							
7225		Value	Error	Correlation Matrix:					
X (mm)		-2281546987.6	1.2	1.000					
Y (mm)		-1453645014.8	1.8	.542	1.000				
Z (mm)		5756993183.0	3.1	.147	-.633	1.000			
X vel (mm/yr)		-21.2	.3	.162	.178	.220	1.000		
Y vel (mm/yr)		.5	.5	.136	.312	-.234	.439	1.000	
Z vel (mm/yr)		-9.8	.8	.191	-.191	.384	.093	-.709	1.000
				X	Y	Z	X vel	Y vel	Z vel
GOLDVENU		Coordinate Reference Epoch = 88 01 01							
1513		Value	Error	Correlation Matrix:					
X (mm)		-2351128994.3	1.4	1.000					
Y (mm)		-4655477047.3	2.7	.647	1.000				
Z (mm)		3660956861.0	3.1	-.662	-.635	1.000			
X vel (mm/yr)		-16.8	.4	.034	-.018	-.057	1.000		
Y vel (mm/yr)		9.9	.8	-.041	.093	.053	.635	1.000	
Z vel (mm/yr)		-6.9	.7	-.084	-.011	.050	-.605	-.807	1.000
				X	Y	Z	X vel	Y vel	Z vel
GORF7102		Coordinate Reference Epoch = 88 01 01							
7102		Value	Error	Correlation Matrix:					
X (mm)		1130686704.9	5.3	1.000					
Y (mm)		-4831353008.7	18.9	-.760	1.000				
Z (mm)		3994110813.0	15.5	.733	-.941	1.000			
X vel (mm/yr)		-11.1	1.7	-.948	.721	-.694	1.000		
Y vel (mm/yr)		-22.9	6.1	.716	-.947	.881	-.754	1.000	
Z vel (mm/yr)		22.0	4.9	-.701	.897	-.951	.734	-.929	1.000
				X	Y	Z	X vel	Y vel	Z vel
GRASSE		Coordinate Reference Epoch = 88 01 01							
7605		Value	Error	Correlation Matrix:					
X (mm)		4581697917.6	13.0	1.000					
Y (mm)		556125523.0	3.7	.732	1.000				
Z (mm)		4389351311.4	13.5	.912	.714	1.000			
X vel (mm/yr)		.0	.0	.000	.000	.000	1.000		
Y vel (mm/yr)		.0	.0	.000	.000	.000	.000	1.000	
Z vel (mm/yr)		.0	.0	.000	.000	.000	.000	.000	1.000
				X	Y	Z	X vel	Y vel	Z vel
HALEAKAL		Coordinate Reference Epoch = 88 01 01							
7120		Value	Error	Correlation Matrix:					
X (mm)		-5465998346.2	14.1	1.000					
Y (mm)		-2404408479.3	7.4	.890	1.000				
Z (mm)		2242228402.6	7.7	-.757	-.657	1.000			
X vel (mm/yr)		-15.7	.2	-.088	-.051	.184	1.000		
Y vel (mm/yr)		66.5	.7	.046	.195	.065	-.259	1.000	
Z vel (mm/yr)		31.9	.7	-.025	.135	.195	.515	.694	1.000
				X	Y	Z	X vel	Y vel	Z vel
HARTRAO		Coordinate Reference Epoch = 88 01 01							
7232		Value	Error	Correlation Matrix:					
X (mm)		5085442961.0	8.8	1.000					
Y (mm)		2668263290.9	6.8	.013	1.000				
Z (mm)		-2768697216.8	6.4	.245	.672	1.000			
X vel (mm/yr)		.2	2.8	-.607	-.170	-.210	1.000		
Y vel (mm/yr)		15.0	2.0	-.039	-.113	.222	-.017	1.000	
Z vel (mm/yr)		12.3	1.7	-.072	.156	.030	.094	.495	1.000
				X	Y	Z	X vel	Y vel	Z vel
HATCREEK		Coordinate Reference Epoch = 88 01 01							
7218		Value	Error	Correlation Matrix:					
X (mm)		-2523969794.1	.8	1.000					
Y (mm)		-4123506326.4	1.9	.668	1.000				
Z (mm)		4147752550.7	2.6	-.519	-.495	1.000			
X vel (mm/yr)		-20.9	.4	-.383	-.214	.193	1.000		
Y vel (mm/yr)		8.9	.8	-.264	-.125	.229	.753	1.000	
Z vel (mm/yr)		-7.4	.8	.242	.253	-.148	-.677	-.816	1.000
				X	Y	Z	X vel	Y vel	Z vel

Table 4.1 (continued)

Geocentric Cartesian Site Coordinates and Velocities from Global Solution 865									
HAYSTACK		Coordinate Reference Epoch = 88 01 01							
7205		Value	Error	Correlation Matrix:					
X (mm)	1492404946.9	.3	1.000						
Y (mm)	-4457266533.9	.7	-.509	1.000					
Z (mm)	4296881671.1	.7	.496	-.799	1.000				
X vel (mm/yr)	-16.7	.1	-.363	.175	-.155	1.000			
Y vel (mm/yr)	-.6	.3	.170	-.435	.334	-.466	1.000		
Z vel (mm/yr)	3.9	.3	-.145	.321	-.471	.430	-.763	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
HOBART26		Coordinate Reference Epoch = 88 01 01							
7242		Value	Error	Correlation Matrix:					
X (mm)	-3950236175.9	13.7	1.000						
Y (mm)	2522347617.4	10.6	-.391	1.000					
Z (mm)	-4311562934.8	11.8	.343	-.118	1.000				
X vel (mm/yr)	-43.5	4.4	-.799	.447	-.517	1.000			
Y vel (mm/yr)	10.7	3.5	.423	-.503	.502	-.488	1.000		
Z vel (mm/yr)	28.8	4.0	-.505	.480	-.655	.514	-.225	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
HOHENFRG		Coordinate Reference Epoch = 88 01 01							
7600		Value	Error	Correlation Matrix:					
X (mm)	3778215150.7	6.0	1.000						
Y (mm)	698644566.1	2.4	.032	1.000					
Z (mm)	5074053491.2	8.1	.731	.056	1.000				
X vel (mm/yr)	.0	.0	.000	.000	.000	1.000			
Y vel (mm/yr)	.0	.0	.000	.000	.000	.000	1.000		
Z vel (mm/yr)	.0	.0	.000	.000	.000	.000	.000	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
JPL MV1		Coordinate Reference Epoch = 88 01 01							
7263		Value	Error	Correlation Matrix:					
X (mm)	-2493305861.0	5.1	1.000						
Y (mm)	-4655197575.0	9.3	.953	1.000					
Z (mm)	3565519294.8	7.3	-.915	-.913	1.000				
X vel (mm/yr)	-35.3	2.3	.638	.611	-.572	1.000			
Y vel (mm/yr)	20.4	4.2	.603	.625	-.564	.963	1.000		
Z vel (mm/yr)	10.2	3.2	-.592	-.593	.593	-.949	-.959	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
KASHIM34		Coordinate Reference Epoch = 88 01 01							
1857		Value	Error	Correlation Matrix:					
X (mm)	-3997649050.1	3.5	1.000						
Y (mm)	3276690818.4	2.6	.084	1.000					
Z (mm)	3724278928.0	6.5	-.404	.194	1.000				
X vel (mm/yr)	2.5	1.0	.073	.600	.139	1.000			
Y vel (mm/yr)	6.2	.7	.569	.069	-.013	.214	1.000		
Z vel (mm/yr)	-13.3	1.8	.069	-.051	.475	-.170	.330	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
KASHIMA		Coordinate Reference Epoch = 88 01 01							
1856		Value	Error	Correlation Matrix:					
X (mm)	-3997892069.4	3.0	1.000						
Y (mm)	3276581325.0	2.1	.541	1.000					
Z (mm)	3724118321.0	6.2	-.326	.057	1.000				
X vel (mm/yr)	2.5	1.0	.312	.584	.056	1.000			
Y vel (mm/yr)	6.2	.7	.508	.332	.070	.214	1.000		
Z vel (mm/yr)	-13.3	1.8	-.026	.031	.560	-.170	.330	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
KAUAI		Coordinate Reference Epoch = 88 01 01							
1311		Value	Error	Correlation Matrix:					
X (mm)	-5543845866.6	2.4	1.000						
Y (mm)	-2054564092.8	2.8	.600	1.000					
Z (mm)	2387813769.6	4.5	-.716	-.142	1.000				
X vel (mm/yr)	-11.3	.2	-.665	-.183	.365	1.000			
Y vel (mm/yr)	67.5	.7	.363	.530	.117	-.259	1.000		
Z vel (mm/yr)	31.8	.7	-.173	.334	.376	.515	.695	1.000	
			X	Y	Z	X vel	Y vel	Z vel	

Table 4.1 (continued)

Geocentric Cartesian Site Coordinates and Velocities from Global Solution 865										
KODIAK Coordinate Reference Epoch = 88 01 01										
7278		Value	Error	Correlation Matrix:						
X (mm)	(mm)	-3026939992.0	5.2	1.000						
Y (mm)	(mm)	-1575911749.3	3.8	.804	1.000					
Z (mm)	(mm)	5370362455.0	9.4	-.869	-.827	1.000				
X vel (mm/yr)	(mm/yr)	-24.6	3.5	-.429	-.357	.422	1.000			
Y vel (mm/yr)	(mm/yr)	4.5	2.3	-.405	-.459	.431	.849	1.000		
Z vel (mm/yr)	(mm/yr)	5.0	6.0	.437	.397	-.432	-.950	-.878	1.000	
				X	Y	Z	X vel	Y vel	Z vel	
KWAJAL26 Coordinate Reference Epoch = 88 01 01										
4968		Value	Error	Correlation Matrix:						
X (mm)	(mm)	-6143536321.5	10.0	1.000						
Y (mm)	(mm)	1363997312.3	4.2	-.298	1.000					
Z (mm)	(mm)	1034707391.7	6.8	-.473	.301	1.000				
X vel (mm/yr)	(mm/yr)	22.8	4.5	.698	-.267	-.216	1.000			
Y vel (mm/yr)	(mm/yr)	71.9	1.6	-.317	.659	.267	-.445	1.000		
Z vel (mm/yr)	(mm/yr)	25.6	2.3	-.303	.288	.509	-.508	.457	1.000	
				X	Y	Z	X vel	Y vel	Z vel	
LA-VLBA Coordinate Reference Epoch = 88 01 01										
7611		Value	Error	Correlation Matrix:						
X (mm)	(mm)	-1449752181.6	.7	1.000						
Y (mm)	(mm)	-4975298557.5	2.1	-.140	1.000					
Z (mm)	(mm)	3709123907.8	2.0	-.472	-.385	1.000				
X vel (mm/yr)	(mm/yr)	.0	.0	-.001	.000	.000	1.000			
Y vel (mm/yr)	(mm/yr)	.0	.0	.000	.000	.000	.000	1.000		
Z vel (mm/yr)	(mm/yr)	.0	.0	.000	.000	.000	.000	.000	1.000	
				X	Y	Z	X vel	Y vel	Z vel	
LEONRDOK Coordinate Reference Epoch = 88 01 01										
7292		Value	Error	Correlation Matrix:						
X (mm)	(mm)	-522231459.8	3.7	1.000						
Y (mm)	(mm)	-5145676866.0	19.1	.545	1.000					
Z (mm)	(mm)	3720152295.1	12.7	-.517	-.895	1.000				
X vel (mm/yr)	(mm/yr)	.0	.0	.000	.000	.000	1.000			
Y vel (mm/yr)	(mm/yr)	.0	.0	.000	.000	.000	.000	1.000		
Z vel (mm/yr)	(mm/yr)	.0	.0	.000	.000	.000	.000	.000	1.000	
				X	Y	Z	X vel	Y vel	Z vel	
MAMMOTEL Coordinate Reference Epoch = 88 01 01										
7259		Value	Error	Correlation Matrix:						
X (mm)	(mm)	-2448246639.9	21.5	1.000						
Y (mm)	(mm)	-4426738309.2	39.3	.975	1.000					
Z (mm)	(mm)	3875435866.6	32.8	-.965	-.976	1.000				
X vel (mm/yr)	(mm/yr)	-23.2	7.0	.880	.849	-.838	1.000			
Y vel (mm/yr)	(mm/yr)	11.6	12.5	.865	.884	-.857	.964	1.000		
Z vel (mm/yr)	(mm/yr)	-3.0	10.4	-.857	-.860	.882	-.953	-.962	1.000	
				X	Y	Z	X vel	Y vel	Z vel	
MARCUS Coordinate Reference Epoch = 88 01 01										
7310		Value	Error	Correlation Matrix:						
X (mm)	(mm)	-5227446654.3	15.4	1.000						
Y (mm)	(mm)	2551379277.0	9.0	-.603	1.000					
Z (mm)	(mm)	2607604747.9	14.2	-.657	.552	1.000				
X vel (mm/yr)	(mm/yr)	.0	.0	.000	.000	.000	1.000			
Y vel (mm/yr)	(mm/yr)	.0	.0	.000	.000	.000	.000	1.000		
Z vel (mm/yr)	(mm/yr)	.0	.0	.000	.000	.000	.000	.000	1.000	
				X	Y	Z	X vel	Y vel	Z vel	
MARPOINT Coordinate Reference Epoch = 88 01 01										
7217		Value	Error	Correlation Matrix:						
X (mm)	(mm)	1106629502.5	1.2	1.000						
Y (mm)	(mm)	-4882907200.6	3.8	-.606	1.000					
Z (mm)	(mm)	3938086891.7	3.1	.519	-.882	1.000				
X vel (mm/yr)	(mm/yr)	-16.7	.5	-.087	.154	-.202	1.000			
Y vel (mm/yr)	(mm/yr)	2.4	1.7	.152	-.147	.155	-.745	1.000		
Z vel (mm/yr)	(mm/yr)	.2	1.4	-.198	.153	-.164	.729	-.910	1.000	
				X	Y	Z	X vel	Y vel	Z vel	

Table 4.1 (continued)

Geocentric Cartesian Site Coordinates and Velocities from Global Solution 865									
MATERA		Coordinate Reference Epoch = 88 01 01							
7243		Value	Error	Correlation Matrix:					
X	(mm)	4641939209.8	13.5	1.000					
Y	(mm)	1393002809.0	5.1	.563	1.000				
Z	(mm)	4133325446.9	13.1	.853	.568	1.000			
X vel	(mm/yr)	-45.3	3.9	-.955	-.578	-.837	1.000		
Y vel	(mm/yr)	12.2	1.4	-.574	-.911	-.526	.507	1.000	
Z vel	(mm/yr)	-4.9	3.6	-.846	-.572	-.846	.868	.537	1.000
				X	Y	Z	X vel	Y vel	Z vel
MCD 7850		Coordinate Reference Epoch = 88 01 01							
7850		Value	Error	Correlation Matrix:					
X	(mm)	-1330008031.1	2.8	1.000					
Y	(mm)	-5328391557.8	10.5	.719	1.000				
Z	(mm)	3236502685.3	6.6	-.746	-.864	1.000			
X vel	(mm/yr)	.0	.0	.000	.000	.000	1.000		
Y vel	(mm/yr)	.0	.0	.000	.000	.000	.000	1.000	
Z vel	(mm/yr)	.0	.0	.000	.000	.000	.000	.000	1.000
				X	Y	Z	X vel	Y vel	Z vel
MEDICINA		Coordinate Reference Epoch = 88 01 01							
7230		Value	Error	Correlation Matrix:					
X	(mm)	4461370304.8	3.1	1.000					
Y	(mm)	919596586.6	1.4	-.224	1.000				
Z	(mm)	4449559068.9	4.9	.494	-.100	1.000			
X vel	(mm/yr)	-16.5	1.3	-.539	-.187	-.448	1.000		
Y vel	(mm/yr)	19.7	.6	-.225	-.383	.006	-.148	1.000	
Z vel	(mm/yr)	9.6	1.5	-.436	-.162	-.123	.687	-.019	1.000
				X	Y	Z	X vel	Y vel	Z vel
METSEHOVI		Coordinate Reference Epoch = 88 01 01							
7601		Value	Error	Correlation Matrix:					
X	(mm)	2890653062.4	15.6	1.000					
Y	(mm)	1310295161.5	7.1	.888	1.000				
Z	(mm)	5513958624.9	23.5	.951	.850	1.000			
X vel	(mm/yr)	.0	.0	.000	.000	.000	1.000		
Y vel	(mm/yr)	.0	.0	.000	.000	.000	.000	1.000	
Z vel	(mm/yr)	.0	.0	.000	.000	.000	.000	.000	1.000
				X	Y	Z	X vel	Y vel	Z vel
MILESMON		Coordinate Reference Epoch = 88 01 01							
7038		Value	Error	Correlation Matrix:					
X	(mm)	-1204438867.2	9.2	1.000					
Y	(mm)	-4239211088.4	30.1	.828	1.000				
Z	(mm)	4596266020.9	30.1	-.815	-.951	1.000			
X vel	(mm/yr)	.0	.0	.000	.000	.000	1.000		
Y vel	(mm/yr)	.0	.0	.000	.000	.000	.000	1.000	
Z vel	(mm/yr)	.0	.0	.000	.000	.000	.000	.000	1.000
				X	Y	Z	X vel	Y vel	Z vel
MIYAZAKI		Coordinate Reference Epoch = 88 01 01							
7312		Value	Error	Correlation Matrix:					
X	(mm)	-3582767625.2	109.2	1.000					
Y	(mm)	4052034074.7	71.7	-.696	1.000				
Z	(mm)	3369020614.7	112.3	.167	.580	1.000			
X vel	(mm/yr)	.0	.0	.000	.000	.000	1.000		
Y vel	(mm/yr)	.0	.0	.000	.000	.000	.000	1.000	
Z vel	(mm/yr)	.0	.0	.000	.000	.000	.000	.000	1.000
				X	Y	Z	X vel	Y vel	Z vel
MIZUSGSI		Coordinate Reference Epoch = 88 01 01							
7314		Value	Error	Correlation Matrix:					
X	(mm)	-3862411656.3	43.1	1.000					
Y	(mm)	3105015111.6	17.4	.138	1.000				
Z	(mm)	4001944938.3	23.9	-.749	.162	1.000			
X vel	(mm/yr)	.0	.0	.000	.000	.000	1.000		
Y vel	(mm/yr)	.0	.0	.000	.000	.000	.000	1.000	
Z vel	(mm/yr)	.0	.0	.000	.000	.000	.000	.000	1.000
				X	Y	Z	X vel	Y vel	Z vel

Table 4.1 (continued)

Geocentric Cartesian Site Coordinates and Velocities from Global Solution 865									
MOJ 7288		Coordinate Reference Epoch = 88 01 01							
7288		Value	Error	Correlation Matrix:					
X (mm)	-2356493976.0	5.8	1.000						
Y (mm)	-4646607657.8	11.0	.947	1.000					
Z (mm)	3668426580.2	8.4	-.896	-.917	1.000				
X vel (mm/yr)	-16.5	.1	-.045	-.031	.049	1.000			
Y vel (mm/yr)	10.0	.5	-.030	.014	.069	.395	1.000		
Z vel (mm/yr)	-6.3	.4	.015	.028	-.046	-.467	-.661	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
MOJAVE12		Coordinate Reference Epoch = 88 01 01							
7222		Value	Error	Correlation Matrix:					
X (mm)	-2356170855.0	.5	1.000						
Y (mm)	-4646755861.1	1.5	.229	1.000					
Z (mm)	3668470563.0	2.3	-.766	-.354	1.000				
X vel (mm/yr)	-16.5	.1	-.519	-.239	.183	1.000			
Y vel (mm/yr)	10.0	.5	-.334	.102	.254	.396	1.000		
Z vel (mm/yr)	-6.3	.4	.169	.207	-.171	-.468	-.661	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
MON PEAK		Coordinate Reference Epoch = 88 01 01							
7274		Value	Error	Correlation Matrix:					
X (mm)	-2386289275.2	2.4	1.000						
Y (mm)	-4802346543.3	4.8	.895	1.000					
Z (mm)	3444883924.8	4.0	-.850	-.802	1.000				
X vel (mm/yr)	-34.9	1.2	.358	.339	-.267	1.000			
Y vel (mm/yr)	32.5	2.5	.321	.363	-.249	.944	1.000		
Z vel (mm/yr)	7.7	1.8	-.300	-.308	.260	-.920	-.952	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
NOBEY 6M		Coordinate Reference Epoch = 88 01 01							
7244		Value	Error	Correlation Matrix:					
X (mm)	-3871168033.2	9.8	1.000						
Y (mm)	3428274059.0	8.7	-.639	1.000					
Z (mm)	3723697697.3	13.1	-.590	.601	1.000				
X vel (mm/yr)	.0	.0	.000	.000	.000	1.000			
Y vel (mm/yr)	.0	.0	.000	.000	.000	.000	1.000		
Z vel (mm/yr)	.0	.0	.000	.000	.000	.000	.000	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
NOME		Coordinate Reference Epoch = 88 01 01							
7279		Value	Error	Correlation Matrix:					
X (mm)	-2658150243.2	6.9	1.000						
Y (mm)	-693821871.4	3.4	.694	1.000					
Z (mm)	5737236598.1	13.2	-.864	-.638	1.000				
X vel (mm/yr)	-27.8	2.8	-.031	-.114	-.080	1.000			
Y vel (mm/yr)	-4.9	1.3	-.126	-.062	-.030	.749	1.000		
Z vel (mm/yr)	-2.6	5.4	-.079	-.019	.162	-.891	-.682	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
NOTO		Coordinate Reference Epoch = 88 01 01							
7547		Value	Error	Correlation Matrix:					
X (mm)	4934563434.0	6.6	1.000						
Y (mm)	1321201040.3	2.8	.305	1.000					
Z (mm)	3806484301.9	7.3	.723	.399	1.000				
X vel (mm/yr)	-12.8	2.6	-.840	-.418	-.668	1.000			
Y vel (mm/yr)	15.3	1.1	-.427	-.734	-.291	.328	1.000		
Z vel (mm/yr)	19.3	2.5	-.726	-.400	-.559	.827	.418	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
NRAO 140		Coordinate Reference Epoch = 88 01 01							
7204		Value	Error	Correlation Matrix:					
X (mm)	882880085.6	.9	1.000						
Y (mm)	-4924482325.3	3.0	-.442	1.000					
Z (mm)	3944130597.7	2.5	.401	-.874	1.000				
X vel (mm/yr)	-16.4	.2	.248	-.105	.100	1.000			
Y vel (mm/yr)	.4	.6	-.106	.212	-.160	-.474	1.000		
Z vel (mm/yr)	1.2	.5	.104	-.156	.162	.440	-.886	1.000	
			X	Y	Z	X vel	Y vel	Z vel	

Table 4.1 (continued)

Geocentric Cartesian Site Coordinates and Velocities from Global Solution 865									
NRAO85 3 Coordinate Reference Epoch = 88 01 01									
7214		Value	Error	Correlation Matrix:					
X (mm)	(mm)	882325775.7	1.2	1.000					
Y (mm)	(mm)	-4925137989.0	3.6	-.244	1.000				
Z (mm)	(mm)	3943397577.5	2.9	.133	-.833	1.000			
X vel (mm/yr)	(mm/yr)	-20.0	.4	-.945	.251	-.165	1.000		
Y vel (mm/yr)	(mm/yr)	-4.6	1.1	.234	-.956	.798	-.278	1.000	
Z vel (mm/yr)	(mm/yr)	6.7	.9	-.163	.797	-.946	.208	-.837	1.000
				X	Y	Z	X vel	Y vel	Z vel
OCOTILLO Coordinate Reference Epoch = 88 01 01									
7270		Value	Error	Correlation Matrix:					
X (mm)	(mm)	-2335601028.8	18.0	1.000					
Y (mm)	(mm)	-4832244099.1	35.3	.979	1.000				
Z (mm)	(mm)	3434392543.7	25.8	-.965	-.979	1.000			
X vel (mm/yr)	(mm/yr)	.0	.0	.000	.000	.000	1.000		
Y vel (mm/yr)	(mm/yr)	.0	.0	.000	.000	.000	.000	1.000	
Z vel (mm/yr)	(mm/yr)	.0	.0	.000	.000	.000	.000	.000	1.000
				X	Y	Z	X vel	Y vel	Z vel
ONSALA60 Coordinate Reference Epoch = 88 01 01									
7213		Value	Error	Correlation Matrix:					
X (mm)	(mm)	3370606311.4	1.7	1.000					
Y (mm)	(mm)	711917301.6	1.1	-.531	1.000				
Z (mm)	(mm)	5349830614.6	3.9	.142	-.748	1.000			
X vel (mm/yr)	(mm/yr)	-12.7	.6	.248	-.032	-.130	1.000		
Y vel (mm/yr)	(mm/yr)	15.1	.4	-.235	.160	-.151	-.692	1.000	
Z vel (mm/yr)	(mm/yr)	9.2	1.0	.107	-.348	.412	.342	-.680	1.000
				X	Y	Z	X vel	Y vel	Z vel
OVR 7853 Coordinate Reference Epoch = 88 01 01									
7853		Value	Error	Correlation Matrix:					
X (mm)	(mm)	-2410421091.3	5.0	1.000					
Y (mm)	(mm)	-4477800381.8	9.2	.919	1.000				
Z (mm)	(mm)	3838690276.2	7.6	-.849	-.899	1.000			
X vel (mm/yr)	(mm/yr)	-18.8	.3	.159	.148	-.149	1.000		
Y vel (mm/yr)	(mm/yr)	11.4	.8	.104	.146	-.099	.700	1.000	
Z vel (mm/yr)	(mm/yr)	-6.1	.7	-.112	-.112	.129	-.686	-.791	1.000
				X	Y	Z	X vel	Y vel	Z vel
OVRO 130 Coordinate Reference Epoch = 88 01 01									
7207		Value	Error	Correlation Matrix:					
X (mm)	(mm)	-2409600610.9	1.3	1.000					
Y (mm)	(mm)	-4478349515.1	2.6	.765	1.000				
Z (mm)	(mm)	3838603169.0	3.0	-.712	-.636	1.000			
X vel (mm/yr)	(mm/yr)	-18.8	.3	.644	.539	-.398	1.000		
Y vel (mm/yr)	(mm/yr)	11.4	.8	.430	.543	-.263	.700	1.000	
Z vel (mm/yr)	(mm/yr)	-6.1	.7	-.441	-.395	.350	-.687	-.791	1.000
				X	Y	Z	X vel	Y vel	Z vel
PELOSSOM Coordinate Reference Epoch = 88 01 01									
7254		Value	Error	Correlation Matrix:					
X (mm)	(mm)	-2464070787.0	7.9	1.000					
Y (mm)	(mm)	-4649425602.7	14.7	.958	1.000				
Z (mm)	(mm)	3593905650.8	11.2	-.920	-.930	1.000			
X vel (mm/yr)	(mm/yr)	-19.8	3.4	.732	.704	-.670	1.000		
Y vel (mm/yr)	(mm/yr)	28.4	6.4	.705	.734	-.679	.965	1.000	
Z vel (mm/yr)	(mm/yr)	-4.7	4.8	-.678	-.688	.713	-.943	-.957	1.000
				X	Y	Z	X vel	Y vel	Z vel
PENTICTN Coordinate Reference Epoch = 88 01 01									
7283		Value	Error	Correlation Matrix:					
X (mm)	(mm)	-2058840260.5	7.7	1.000					
Y (mm)	(mm)	-3621286373.5	12.7	.945	1.000				
Z (mm)	(mm)	4814420712.2	16.5	-.941	-.963	1.000			
X vel (mm/yr)	(mm/yr)	-25.5	3.0	-.172	-.224	.182	1.000		
Y vel (mm/yr)	(mm/yr)	-12.7	4.9	-.222	-.272	.231	.949	1.000	
Z vel (mm/yr)	(mm/yr)	10.7	6.4	.181	.232	-.189	-.954	-.972	1.000
				X	Y	Z	X vel	Y vel	Z vel

Table 4.1 (continued)

Geocentric Cartesian Site Coordinates and Velocities from Global Solution 865									
PIETOWN Coordinate Reference Epoch = 88 01 01									
7234	Value	Error	Correlation Matrix:						
X (mm)	-1640953524.5	.9	1.000						
Y (mm)	-5014816004.6	2.0	.393	1.000					
Z (mm)	3575411885.8	2.3	-.627	-.585	1.000				
X vel (mm/yr)	-15.4	.4	-.814	-.499	.337	1.000			
Y vel (mm/yr)	9.8	.8	-.528	-.615	.492	.502	1.000		
Z vel (mm/yr)	-14.4	.7	.466	.614	-.579	-.523	-.799	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
PINFLATS Coordinate Reference Epoch = 88 01 01									
7256	Value	Error	Correlation Matrix:						
X (mm)	-2369635815.6	4.1	1.000						
Y (mm)	-4761324891.3	8.0	.936	1.000					
Z (mm)	3511116097.5	6.4	-.913	-.909	1.000				
X vel (mm/yr)	-26.6	2.3	.441	.403	-.383	1.000			
Y vel (mm/yr)	18.1	4.5	.393	.414	-.368	.951	1.000		
Z vel (mm/yr)	4.1	3.4	-.402	-.401	.397	-.940	-.963	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
PLATTVIL Coordinate Reference Epoch = 88 01 01									
7258	Value	Error	Correlation Matrix:						
X (mm)	-1240708000.2	1.6	1.000						
Y (mm)	-4720454341.3	5.0	.827	1.000					
Z (mm)	4094481606.3	4.4	-.787	-.891	1.000				
X vel (mm/yr)	-18.2	.9	.157	.095	-.092	1.000			
Y vel (mm/yr)	-1.3	2.7	.100	.106	-.098	.884	1.000		
Z vel (mm/yr)	-6.4	2.3	-.107	-.109	.124	-.857	-.958	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
PRESIDIO Coordinate Reference Epoch = 88 01 01									
7252	Value	Error	Correlation Matrix:						
X (mm)	-2707704729.8	4.0	1.000						
Y (mm)	-4257609568.8	6.4	.934	1.000					
Z (mm)	3888374133.1	6.0	-.866	-.874	1.000				
X vel (mm/yr)	-22.9	2.6	.302	.278	-.236	1.000			
Y vel (mm/yr)	27.7	4.2	.282	.296	-.238	.960	1.000		
Z vel (mm/yr)	5.9	3.7	-.263	-.262	.250	-.939	-.955	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
PRESIDIO Coordinate Reference Epoch = 88 01 01 Episodic date: 89 10 01									
7252	Value	Error	Correlation Matrix:						
X (mm)	-2707704714.9	8.9	1.000						
Y (mm)	-4257609552.3	13.9	.959	1.000					
Z (mm)	3888374103.6	12.6	-.930	-.941	1.000				
X vel (mm/yr)	-22.9	2.6	-.785	-.767	.731	1.000			
Y vel (mm/yr)	27.7	4.2	-.757	-.788	.744	.960	1.000		
Z vel (mm/yr)	5.9	3.7	.729	.752	-.761	-.939	-.955	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
PT REYES Coordinate Reference Epoch = 88 01 01									
7251	Value	Error	Correlation Matrix:						
X (mm)	-2732332962.9	3.6	1.000						
Y (mm)	-4217634864.1	5.7	.925	1.000					
Z (mm)	3914491004.2	5.6	-.857	-.855	1.000				
X vel (mm/yr)	-30.3	2.0	-.442	-.414	.379	1.000			
Y vel (mm/yr)	23.0	3.1	-.429	-.427	.400	.949	1.000		
Z vel (mm/yr)	22.4	2.9	.404	.410	-.399	-.934	-.949	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
PVERDES Coordinate Reference Epoch = 88 01 01									
7268	Value	Error	Correlation Matrix:						
X (mm)	-2525452666.4	6.2	1.000						
Y (mm)	-4670035647.7	11.2	.956	1.000					
Z (mm)	3522886715.8	8.6	-.926	-.930	1.000				
X vel (mm/yr)	-28.1	3.8	-.468	-.457	.433	1.000			
Y vel (mm/yr)	35.9	6.7	-.462	-.462	.440	.965	1.000		
Z vel (mm/yr)	7.2	5.1	.447	.448	-.441	-.946	-.964	1.000	
			X	Y	Z	X vel	Y vel	Z vel	

Table 4.1 (continued)

Geocentric Cartesian Site Coordinates and Velocities from Global Solution 865									
QUINCY		Coordinate Reference Epoch = 88 01 01							
7221		Value	Error	Correlation Matrix:					
X	(mm)	-2517230748.8	2.7	1.000					
Y	(mm)	-4198595189.1	4.7	.906	1.000				
Z	(mm)	4076531231.5	4.7	-.822	-.832	1.000			
X vel	(mm/yr)	-21.2	1.5	.042	.023	-.017	1.000		
Y vel	(mm/yr)	12.5	2.5	.026	.032	.000	.937	1.000	
Z vel	(mm/yr)	-8.7	2.3	-.024	-.004	.023	-.917	-.949	1.000
				X	Y	Z	X vel	Y vel	Z vel
RICHMOND		Coordinate Reference Epoch = 88 01 01							
7219		Value	Error	Correlation Matrix:					
X	(mm)	961258190.2	1.0	1.000					
Y	(mm)	-5674090047.4	1.7	-.251	1.000				
Z	(mm)	2740533700.4	1.2	-.020	-.909	1.000			
X vel	(mm/yr)	-11.2	.0	.067	-.254	.080	1.000		
Y vel	(mm/yr)	-.8	.1	.067	-.254	.080	1.000	1.000	
Z vel	(mm/yr)	2.2	.1	.067	-.254	.080	1.000	1.000	1.000
				X	Y	Z	X vel	Y vel	Z vel
ROBLED32		Coordinate Reference Epoch = 88 01 01							
1561		Value	Error	Correlation Matrix:					
X	(mm)	4849245419.2	45.1	1.000					
Y	(mm)	-360278383.4	9.0	-.203	1.000				
Z	(mm)	4114884388.1	38.5	.962	-.298	1.000			
X vel	(mm/yr)	-9.0	3.5	.363	.099	.432	1.000		
Y vel	(mm/yr)	20.3	.7	.076	.254	.076	.130	1.000	
Z vel	(mm/yr)	10.4	3.8	.350	.072	.449	.954	.100	1.000
				X	Y	Z	X vel	Y vel	Z vel
SANPAULA		Coordinate Reference Epoch = 88 01 01							
7255		Value	Error	Correlation Matrix:					
X	(mm)	-2554476536.7	6.2	1.000					
Y	(mm)	-4608627352.1	11.1	.955	1.000				
Z	(mm)	3582138250.7	8.6	-.926	-.927	1.000			
X vel	(mm/yr)	-37.3	3.6	-.319	-.324	.306	1.000		
Y vel	(mm/yr)	20.0	6.5	-.327	-.344	.319	.964	1.000	
Z vel	(mm/yr)	15.6	4.9	.312	.323	-.321	-.953	-.961	1.000
				X	Y	Z	X vel	Y vel	Z vel
SANTIA12		Coordinate Reference Epoch = 88 01 01							
1404		Value	Error	Correlation Matrix:					
X	(mm)	1769693019.6	8.6	1.000					
Y	(mm)	-5044504417.1	16.1	-.467	1.000				
Z	(mm)	-3468435149.3	9.2	-.422	.463	1.000			
X vel	(mm/yr)	.0	.0	.000	.000	.000	1.000		
Y vel	(mm/yr)	.0	.0	.000	.000	.000	.000	1.000	
Z vel	(mm/yr)	.0	.0	.000	.000	.000	.000	.000	1.000
				X	Y	Z	X vel	Y vel	Z vel
SEATTLE1		Coordinate Reference Epoch = 88 01 01							
7229		Value	Error	Correlation Matrix:					
X	(mm)	-2295347838.9	19.9	1.000					
Y	(mm)	-3638029439.2	145.3	.879	1.000				
Z	(mm)	4693408656.3	144.5	-.886	-.999	1.000			
X vel	(mm/yr)	-8.9	8.0	-.843	-.814	.814	1.000		
Y vel	(mm/yr)	13.9	55.9	-.854	-.992	.989	.855	1.000	
Z vel	(mm/yr)	-24.3	55.7	.852	.987	-.986	-.866	-.998	1.000
				X	Y	Z	X vel	Y vel	Z vel
SESHAN25		Coordinate Reference Epoch = 88 01 01							
7227		Value	Error	Correlation Matrix:					
X	(mm)	-2831686427.7	5.7	1.000					
Y	(mm)	4675733855.9	6.0	-.514	1.000				
Z	(mm)	3275327812.9	8.5	-.500	.523	1.000			
X vel	(mm/yr)	-24.0	2.1	-.524	.710	.407	1.000		
Y vel	(mm/yr)	-12.7	2.4	.619	-.825	-.379	-.635	1.000	
Z vel	(mm/yr)	-21.2	2.9	.372	-.466	-.064	-.477	.620	1.000
				X	Y	Z	X vel	Y vel	Z vel

Table 4.1 (continued)

Geocentric Cartesian Site Coordinates and Velocities from Global Solution 865									
SEST		Coordinate Reference Epoch = 88 01 01							
7239		Value	Error	Correlation Matrix:					
X (mm)		1838237926.4	9.4	1.000					
Y (mm)		-5258699183.2	17.3	-.458	1.000				
Z (mm)		-3100588936.5	8.7	-.223	.490	1.000			
X vel (mm/yr)		.0	.0	.000	.000	.000	1.000		
Y vel (mm/yr)		.0	.0	.000	.000	.000	.000	1.000	
Z vel (mm/yr)		.0	.0	.000	.000	.000	.000	.000	1.000
				X	Y	Z	X vel	Y vel	Z vel
SHANGHAI		Coordinate Reference Epoch = 88 01 01							
7226		Value	Error	Correlation Matrix:					
X (mm)		-2847697786.3	109.3	1.000					
Y (mm)		4659872764.8	96.7	-.934	1.000				
Z (mm)		3283958748.5	87.3	-.954	.934	1.000			
X vel (mm/yr)		-24.0	2.1	.026	-.018	-.017	1.000		
Y vel (mm/yr)		-12.7	2.4	-.016	.038	.031	-.635	1.000	
Z vel (mm/yr)		-21.2	2.9	-.014	.022	.055	-.477	.620	1.000
				X	Y	Z	X vel	Y vel	Z vel
SINTOTU		Coordinate Reference Epoch = 88 01 01							
7315		Value	Error	Correlation Matrix:					
X (mm)		-3642141628.2	84.3	1.000					
Y (mm)		2861496664.3	80.8	.253	1.000				
Z (mm)		4370361744.7	61.1	-.544	.657	1.000			
X vel (mm/yr)		.0	.0	.000	.000	.000	1.000		
Y vel (mm/yr)		.0	.0	.000	.000	.000	.000	1.000	
Z vel (mm/yr)		.0	.0	.000	.000	.000	.000	.000	1.000
				X	Y	Z	X vel	Y vel	Z vel
SNDPOINT		Coordinate Reference Epoch = 88 01 01							
7280		Value	Error	Correlation Matrix:					
X (mm)		-3425461717.0	8.0	1.000					
Y (mm)		-1214669083.3	5.0	.789	1.000				
Z (mm)		5223858228.0	12.5	-.915	-.806	1.000			
X vel (mm/yr)		-22.6	4.7	-.648	-.545	.628	1.000		
Y vel (mm/yr)		6.3	2.7	-.589	-.712	.604	.810	1.000	
Z vel (mm/yr)		-9.5	7.0	.644	.574	-.634	-.959	-.828	1.000
				X	Y	Z	X vel	Y vel	Z vel
SOURDOGH		Coordinate Reference Epoch = 88 01 01							
7281		Value	Error	Correlation Matrix:					
X (mm)		-2419993311.6	8.5	1.000					
Y (mm)		-1664228705.3	6.8	.756	1.000				
Z (mm)		5643538210.2	19.8	-.892	-.887	1.000			
X vel (mm/yr)		-25.8	4.0	.850	.665	-.784	1.000		
Y vel (mm/yr)		8.3	3.0	.695	.809	-.769	.821	1.000	
Z vel (mm/yr)		-23.0	9.2	-.785	-.734	.844	-.929	-.909	1.000
				X	Y	Z	X vel	Y vel	Z vel
SOURDOGH		Coordinate Reference Epoch = 88 01 01 Episodic date: 87 12 01							
7281		Value	Error	Correlation Matrix:					
X (mm)		-2419993301.4	6.4	1.000					
Y (mm)		-1664228733.0	4.9	.842	1.000				
Z (mm)		5643538268.8	14.9	-.906	-.890	1.000			
X vel (mm/yr)		-25.8	4.0	-.688	-.558	.657	1.000		
Y vel (mm/yr)		8.3	3.0	-.571	-.646	.630	.821	1.000	
Z vel (mm/yr)		-23.0	9.2	.659	.619	-.701	-.929	-.909	1.000
				X	Y	Z	X vel	Y vel	Z vel
TITIJIMA		Coordinate Reference Epoch = 88 01 01							
7316		Value	Error	Correlation Matrix:					
X (mm)		-4489356525.4	112.5	1.000					
Y (mm)		3482989584.0	124.5	.069	1.000				
Z (mm)		2887931186.9	71.8	-.884	.361	1.000			
X vel (mm/yr)		.0	.0	.000	.000	.000	1.000		
Y vel (mm/yr)		.0	.0	.000	.000	.000	.000	1.000	
Z vel (mm/yr)		.0	.0	.000	.000	.000	.000	.000	1.000
				X	Y	Z	X vel	Y vel	Z vel

Table 4.1 (continued)

Geocentric Cartesian Site Coordinates and Velocities from Global Solution 865									
TROMSONO Coordinate Reference Epoch = 88 01 01									
7602	Value	Error	Correlation Matrix:						
X (mm)	2102904362.7	6.4	1.000						
Y (mm)	721602382.5	4.7	.278	1.000					
Z (mm)	5958201237.7	14.2	.794	.239	1.000				
X vel (mm/yr)	.0	.0	.000	.000	.000	1.000			
Y vel (mm/yr)	.0	.0	.000	.000	.000	.000	1.000		
Z vel (mm/yr)	.0	.0	.000	.000	.000	.000	.000	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
TRYSILNO Coordinate Reference Epoch = 88 01 01									
7607	Value	Error	Correlation Matrix:						
X (mm)	2988029427.7	5.2	1.000						
Y (mm)	655956917.3	2.4	-.026	1.000					
Z (mm)	5578668978.1	9.9	.632	-.225	1.000				
X vel (mm/yr)	.0	.0	.000	.000	.000	1.000			
Y vel (mm/yr)	.0	.0	.000	.000	.000	.000	1.000		
Z vel (mm/yr)	.0	.0	.000	.000	.000	.000	.000	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
TSUKUBA Coordinate Reference Epoch = 88 01 01									
7311	Value	Error	Correlation Matrix:						
X (mm)	-3957172695.5	10.9	1.000						
Y (mm)	3310237980.5	9.9	-.779	1.000					
Z (mm)	3737708994.1	12.7	-.685	.570	1.000				
X vel (mm/yr)	14.8	7.4	.371	-.293	-.248	1.000			
Y vel (mm/yr)	-7.1	6.5	-.309	.395	.254	-.850	1.000		
Z vel (mm/yr)	-27.0	7.5	-.291	.275	.388	-.755	.653	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
USUDA64 Coordinate Reference Epoch = 88 01 01									
7246	Value	Error	Correlation Matrix:						
X (mm)	-3855355126.9	33.1	1.000						
Y (mm)	3427427699.9	29.2	-.937	1.000					
Z (mm)	3740971339.4	38.7	-.666	.588	1.000				
X vel (mm/yr)	.0	.0	.000	.000	.000	1.000			
Y vel (mm/yr)	.0	.0	.000	.000	.000	.000	1.000		
Z vel (mm/yr)	.0	.0	.000	.000	.000	.000	.000	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
VERNAL Coordinate Reference Epoch = 88 01 01									
7290	Value	Error	Correlation Matrix:						
X (mm)	-1631473164.6	3.9	1.000						
Y (mm)	-4589128894.6	9.4	.915	1.000					
Z (mm)	4106759831.0	7.9	-.880	-.929	1.000				
X vel (mm/yr)	-18.0	2.3	-.473	-.447	.428	1.000			
Y vel (mm/yr)	-7.4	5.8	-.439	-.466	.441	.924	1.000		
Z vel (mm/yr)	-2.2	5.0	.406	.426	-.439	-.901	-.954	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
VICTORIA Coordinate Reference Epoch = 88 01 01									
7289	Value	Error	Correlation Matrix:						
X (mm)	-2341309943.4	10.4	1.000						
Y (mm)	-3539083831.5	15.7	.928	1.000					
Z (mm)	4745768321.8	20.1	-.939	-.953	1.000				
X vel (mm/yr)	.0	.0	.000	.000	.000	1.000			
Y vel (mm/yr)	.0	.0	.000	.000	.000	.000	1.000		
Z vel (mm/yr)	.0	.0	.000	.000	.000	.000	.000	1.000	
			X	Y	Z	X vel	Y vel	Z vel	
VNDNBERG Coordinate Reference Epoch = 88 01 01									
7223	Value	Error	Correlation Matrix:						
X (mm)	-2678094609.4	.9	1.000						
Y (mm)	-4525450795.5	1.9	.561	1.000					
Z (mm)	3597410092.4	2.6	-.724	-.450	1.000				
X vel (mm/yr)	-31.6	.4	-.155	-.091	.076	1.000			
Y vel (mm/yr)	33.6	.8	-.138	.051	.150	.756	1.000		
Z vel (mm/yr)	18.6	.7	.082	.126	-.085	-.775	-.791	1.000	
			X	Y	Z	X vel	Y vel	Z vel	

Table 4.1 (continued)

Geocentric Cartesian Site Coordinates and Velocities from Global Solution 865									
WESTFORD		Coordinate Reference Epoch = 88 01 01							
7209		Value	Error	Correlation Matrix:					
X (mm)		1492206805.2	.0	1.000					
Y (mm)		-4458130527.7	.0	.000	1.000				
Z (mm)		4296015440.3	.0	.000	.000	1.000			
X vel (mm/yr)		.0	.0	.000	.000	.000	1.000		
Y vel (mm/yr)		.0	.0	.000	.000	.000	.000	1.000	
Z vel (mm/yr)		.0	.0	.000	.000	.000	.000	.000	1.000
				X	Y	Z	X vel	Y vel	Z vel
WETTZELL		Coordinate Reference Epoch = 88 01 01							
7224		Value	Error	Correlation Matrix:					
X (mm)		4075540189.8	1.7	1.000					
Y (mm)		931735049.9	1.0	-.787	1.000				
Z (mm)		4801629249.9	4.1	.163	-.496	1.000			
X vel (mm/yr)		-16.1	.7	.200	-.115	-.187	1.000		
Y vel (mm/yr)		17.0	.4	-.269	.104	.023	-.865	1.000	
Z vel (mm/yr)		6.8	1.0	.124	-.250	.410	.301	-.519	1.000
				X	Y	Z	X vel	Y vel	Z vel
WETHORSE		Coordinate Reference Epoch = 88 01 01							
7284		Value	Error	Correlation Matrix:					
X (mm)		-2215213376.1	18.8	1.000					
Y (mm)		-2209261512.6	15.1	.837	1.000				
Z (mm)		5540292367.4	36.6	-.848	-.938	1.000			
X vel (mm/yr)		20.2	8.6	.683	.704	-.719	1.000		
Y vel (mm/yr)		41.3	8.1	.606	.779	-.730	.897	1.000	
Z vel (mm/yr)		-83.4	19.4	-.622	-.735	.775	-.924	-.942	1.000
				X	Y	Z	X vel	Y vel	Z vel
WETHORSE		Coordinate Reference Epoch = 88 01 01 Episodic date: 87 12 01							
7284		Value	Error	Correlation Matrix:					
X (mm)		-2215213489.8	10.3	1.000					
Y (mm)		-2209261613.9	9.8	.886	1.000				
Z (mm)		5540292552.9	23.5	-.898	-.930	1.000			
X vel (mm/yr)		20.2	8.6	-.886	-.783	.806	1.000		
Y vel (mm/yr)		41.3	8.1	-.794	-.873	.826	.897	1.000	
Z vel (mm/yr)		-83.4	19.4	.819	.828	-.885	-.924	-.942	1.000
				X	Y	Z	X vel	Y vel	Z vel
YAKATAGA		Coordinate Reference Epoch = 88 01 01							
7277		Value	Error	Correlation Matrix:					
X (mm)		-2529744055.4	7.5	1.000					
Y (mm)		-1942091280.9	6.3	.846	1.000				
Z (mm)		5505027946.4	15.7	-.890	-.909	1.000			
X vel (mm/yr)		-28.9	4.3	.635	.558	-.595	1.000		
Y vel (mm/yr)		22.2	3.5	.572	.596	-.575	.825	1.000	
Z vel (mm/yr)		37.0	9.1	-.592	-.560	.627	-.906	-.924	1.000
				X	Y	Z	X vel	Y vel	Z vel
YAKATAGA		Coordinate Reference Epoch = 88 01 01 Episodic date: 87 12 01							
7277		Value	Error	Correlation Matrix:					
X (mm)		-2529744072.3	7.4	1.000					
Y (mm)		-1942091235.3	6.1	.832	1.000				
Z (mm)		5505027807.4	15.7	-.887	-.905	1.000			
X vel (mm/yr)		-28.9	4.3	-.762	-.613	.688	1.000		
Y vel (mm/yr)		22.2	3.5	-.622	-.735	.697	.825	1.000	
Z vel (mm/yr)		37.0	9.1	.695	.694	-.759	-.906	-.924	1.000
				X	Y	Z	X vel	Y vel	Z vel
YELLOWKN		Coordinate Reference Epoch = 88 01 01							
7285		Value	Error	Correlation Matrix:					
X (mm)		-1224124353.9	5.4	1.000					
Y (mm)		-2689530614.6	11.5	.875	1.000				
Z (mm)		5633555257.4	23.9	-.870	-.941	1.000			
X vel (mm/yr)		.0	.0	.000	.000	.000	1.000		
Y vel (mm/yr)		.0	.0	.000	.000	.000	.000	1.000	
Z vel (mm/yr)		.0	.0	.000	.000	.000	.000	.000	1.000
				X	Y	Z	X vel	Y vel	Z vel

Table 4.1 (continued)

Geocentric Cartesian Site Coordinates and Velocities from Global Solution 865									
YLOW7296		Coordinate Reference Epoch = 88 01 01							
7296		Value	Error	Correlation Matrix:					
X	(mm)	-1224399278.2	1.9	1.000					
Y	(mm)	-2689273198.0	3.1	.426	1.000				
Z	(mm)	5633620223.2	5.0	-.212	-.774	1.000			
X vel	(mm/yr)	.0	.0	.000	.000	.000	1.000		
Y vel	(mm/yr)	.0	.0	.000	.000	.000	.000	1.000	
Z vel	(mm/yr)	.0	.0	.000	.000	.000	.000	.000	1.000
				X	Y	Z	X vel	Y vel	Z vel
YUMA		Coordinate Reference Epoch = 88 01 01							
7894		Value	Error	Correlation Matrix:					
X	(mm)	-2196777795.4	2.9	1.000					
Y	(mm)	-4887337032.4	6.4	.908	1.000				
Z	(mm)	3448425191.5	4.9	-.873	-.857	1.000			
X vel	(mm/yr)	-21.5	2.2	.559	.526	-.463	1.000		
Y vel	(mm/yr)	-9.8	4.8	.520	.560	-.467	.954	1.000	
Z vel	(mm/yr)	-1.0	3.4	-.496	-.511	.490	-.924	-.951	1.000
				X	Y	Z	X vel	Y vel	Z vel

Table 42

Geocentric Cartesian Coordinates for HRAS 085 7216						
Date YY MM DD	X (mm)	SIGMA (mm)	Y (mm)	SIGMA (mm)	Z (mm)	SIGMA (mm)
80 9 1	-1324210825.2	2.5	-5332023178.7	8.3	3232118354.6	6.0
80 11 1	-1324210826.0	2.6	-5332023176.7	8.3	3232118349.3	6.0
81 1 1	-1324210823.0	4.2	-5332023179.1	8.5	3232118350.8	7.2
81 3 1	-1324210824.8	4.7	-5332023180.9	8.5	3232118350.7	7.7
81 5 1	-1324210827.9	4.4	-5332023182.8	8.2	3232118350.2	7.8
81 7 1	-1324210833.8	3.3	-5332023185.3	7.7	3232118348.7	7.5
81 9 1	-1324210837.8	3.7	-5332023186.8	7.5	3232118348.3	7.0
81 11 1	-1324210833.6	2.5	-5332023185.8	6.9	3232118351.1	5.6
82 1 1	-1324210841.0	3.1	-5332023187.2	7.0	3232118349.7	6.0
82 3 1	-1324210845.2	3.8	-5332023187.0	7.2	3232118349.8	6.6
82 5 1	-1324210844.5	3.6	-5332023185.8	7.1	3232118351.8	6.3
82 7 1	-1324210840.0	2.7	-5332023183.4	6.6	3232118355.1	5.5
82 9 1	-1324210842.0	3.6	-5332023179.8	6.6	3232118356.3	5.9
82 11 1	-1324210840.5	2.7	-5332023176.0	6.0	3232118357.9	5.3
83 1 1	-1324210836.0	2.2	-5332023175.2	5.9	3232118357.0	5.1
83 3 1	-1324210843.6	3.4	-5332023171.6	6.3	3232118353.6	6.1
83 5 1	-1324210841.6	3.1	-5332023167.3	6.2	3232118353.6	6.3
83 7 1	-1324210839.2	2.4	-5332023164.7	5.7	3232118354.1	6.0
83 9 1	-1324210840.5	2.5	-5332023163.8	5.5	3232118351.2	5.9
83 11 1	-1324210842.1	2.1	-5332023157.9	5.3	3232118351.4	5.1
84 1 1	-1324210837.8	2.1	-5332023153.7	5.3	3232118347.4	5.0
84 3 1	-1324210845.1	2.8	-5332023149.6	5.5	3232118340.8	4.9
84 5 1	-1324210835.9	2.3	-5332023147.1	5.3	3232118337.6	4.5
84 7 1	-1324210837.3	2.6	-5332023144.8	5.3	3232118329.2	4.6
84 9 1	-1324210837.3	2.1	-5332023134.5	4.9	3232118333.2	4.4
84 11 1	-1324210841.1	2.3	-5332023125.8	4.9	3232118333.1	4.3
85 1 1	-1324210826.6	2.2	-5332023118.9	4.7	3232118340.3	4.1
85 3 1	-1324210823.3	1.7	-5332023118.9	4.2	3232118340.8	3.6
85 5 1	-1324210823.7	1.7	-5332023122.3	4.1	3232118339.3	3.4
85 7 1	-1324210813.5	2.1	-5332023117.1	4.4	3232118343.7	3.8
85 9 1	-1324210821.5	1.7	-5332023111.1	4.3	3232118338.5	3.6
85 11 1	-1324210814.3	1.9	-5332023107.5	4.2	3232118338.3	3.8
86 1 1	-1324210803.2	2.2	-5332023106.8	4.4	3232118339.9	4.0
86 3 1	-1324210813.0	1.9	-5332023104.7	4.0	3232118338.8	3.6
86 5 1	-1324210821.2	1.7	-5332023110.6	3.9	3232118329.8	3.4
86 7 1	-1324210823.5	1.9	-5332023113.3	4.0	3232118326.3	3.7
86 9 1	-1324210824.0	2.0	-5332023112.6	4.1	3232118323.7	3.9
86 11 1	-1324210826.5	1.5	-5332023107.2	3.6	3232118326.3	3.3

Table 4.2 (continued)

Geocentric Cartesian Coordinates for HRAS 085 7216								
Date YY MM DD	X (mm)	SIGMA (mm)	Y (mm)	SIGMA (mm)	Z (mm)	SIGMA (mm)		
87 1 1	-1324210826.1	1.8	-5332023102.5	3.8	3232118324.2	3.4		
87 3 1	-1324210826.0	1.7	-5332023097.7	3.7	3232118321.2	3.2		
87 5 1	-1324210827.0	1.3	-5332023094.9	3.2	3232118317.9	2.8		
87 7 1	-1324210828.7	1.6	-5332023091.2	3.5	3232118320.7	3.0		
87 9 1	-1324210832.0	1.6	-5332023097.6	3.5	3232118317.2	3.1		
87 11 1	-1324210826.8	1.3	-5332023098.8	3.3	3232118321.1	2.8		
88 1 1	-1324210826.9	1.7	-5332023099.5	3.5	3232118320.6	3.1		
88 3 1	-1324210830.6	1.4	-5332023103.2	3.1	3232118324.5	2.8		
88 5 1	-1324210830.4	1.3	-5332023116.3	3.1	3232118329.2	2.7		
88 7 1	-1324210832.6	1.8	-5332023120.9	3.4	3232118329.1	3.4		
88 9 1	-1324210833.6	1.3	-5332023118.5	3.0	3232118336.8	2.8		
88 11 1	-1324210834.7	1.2	-5332023119.6	2.7	3232118331.6	2.6		
89 1 1	-1324210836.0	1.3	-5332023115.1	2.9	3232118331.8	2.7		
89 3 1	-1324210832.0	1.6	-5332023120.3	3.1	3232118336.1	3.2		
89 5 1	-1324210835.2	1.1	-5332023123.2	2.7	3232118337.7	2.5		
89 7 1	-1324210831.6	2.0	-5332023122.1	4.1	3232118344.0	3.6		
89 9 1	-1324210831.9	4.8	-5332023121.4	5.9	3232118343.2	5.6		
89 11 1	-1324210831.9	5.8	-5332023120.6	6.9	3232118342.6	6.5		
90 1 1	-1324210831.8	6.0	-5332023119.7	7.4	3232118342.1	6.7		
90 3 1	-1324210831.8	5.3	-5332023118.9	7.4	3232118341.6	6.4		
90 5 1	-1324210831.7	3.5	-5332023118.1	7.1	3232118341.1	5.3		
90 7 1	-1324210832.8	2.3	-5332023114.2	4.9	3232118336.8	3.7		

Table 4.3

Site Velocities in Topocentric Reference Frames													
Sitename Monument	Total Rates			Relative to NUVEL			Total Rate		Relative to NUVEL		Error Ellipsoid		
	East mm/yr	North mm/yr	Up mm/yr	East mm/yr	North mm/yr	Up mm/yr	Hor mm/yr	Az deg	Hor mm/yr	Az deg	Amp mm/yr	Az deg	Elev deg
ALGOPARK 7282	-18.0 .3	2.1 .3	2.7 1.2	-.2	-1.2	2.7	18.1 .3	276.8 .9	1.2 .3	189.8 13.3	1.2 .3	249.5 350.3	83.8 1.2
AUSTINTX 7271	-12.7 .0	-4.9 .0	.0 .0	.0	.0	.0	13.6 .0	249.0 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0
BERMUDA 7294	-12.8 .0	8.7 .0	.0 .0	.0	.0	.0	15.5 .0	304.3 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0
BLKBUTTE 7269	-21.6 .9	-8.5 1.3	-11.4 9.5	-9.2	3.4	-11.4	23.2 .9	248.5 3.1	9.8 1.0	290.4 7.0	9.5 1.3	172.9 353.4	88.6 1.4
BLOOMIND 7291	-15.9 .0	-.2 .0	.0 .0	.0	.0	.0	15.9 .0	269.2 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0
BREST 7604	17.9 .0	16.4 .0	.0 .0	.0	.0	.0	24.3 .0	47.5 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0
CARNUSTY 7603	16.4 .0	16.2 .0	.0 .0	.0	.0	.0	23.1 .0	45.4 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0
CARROLGA 7228	-14.1 .0	.4 .0	.0 .0	.0	.0	.0	14.1 .0	271.5 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0
CHLBOLTN 7215	18.0 .0	16.1 .0	.0 .0	.0	.0	.0	24.1 .0	48.2 .0	.0 .0	.0 .0	.0 .0	.0 .0	.0 .0
DEADMANL 7267	-21.6 3.0	-9.3 4.1	56.7 27.1	-9.1	2.9	56.7	23.5 3.4	246.8 9.2	9.6 2.9	287.5 24.6	27.1 3.9	187.1 13.2	87.3 2.7
DSS15 7231	-19.0 2.5	-4.9 3.6	-11.7 11.4	-6.2	7.4	-11.6	19.6 2.8	255.5 9.7	9.7 2.7	320.2 20.4	11.6 3.2	26.5 17.0	80.1 -9.8
DSS45 1642	13.1 2.5	51.1 3.0	-.4 4.0	-5.5	-5.0	-.2	52.8 2.8	14.3 3.0	7.4 2.4	227.3 23.7	4.3 3.0	6.6 317.1	66.6 -15.7
DSS65 1665	19.6 .8	14.7 1.0	-1.2 5.1	.1	-1.7	-1.3	24.5 .9	53.2 2.0	1.7 1.0	175.5 27.1	5.1 .8	30.3 152.9	82.3 4.1
EFLSBERG 7203	18.8 .5	14.2 .6	-3.9 1.2	-1.0	-.9	-3.9	23.6 .6	53.0 1.4	1.3 .6	230.4 24.9	1.3 .6	310.1 23.5	70.6 -5.8
ELY 7286	-20.0 .7	-11.3 1.0	-7.6 6.5	-5.9	.3	-7.5	22.9 .7	240.5 2.4	5.9 .7	273.0 9.3	6.5 .9	159.9 345.2	87.4 2.6
											.7	75.2	-2

Table 43 (continued)

Site Velocities in Topocentric Reference Frames													
Site Name Monument	Total Rates			Relative to NUVEL			Total Rate		Relative to NUVEL		Error Ellipsoid		
	East mm/yr	North mm/yr	Up mm/yr	East mm/yr	North mm/yr	Up mm/yr	Hor mm/yr	Az deg	Hor mm/yr	Az deg	Amp mm/yr	Az deg	Elev deg
FD-VLBA 7613	-12.5 .0	-7.4 .0	.0 .0	.0	.0	.0	14.5 .0	239.3 .0	.0 .0	.0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
FLAGSTAF 7261	-16.7 .7	-9.9 1.0	9.7 6.3	-3.4	.5	9.7	19.4 .8	239.4 2.7	3.5 .7	278.5 15.6	6.3 1.0 .7	134.2 354.7 84.7	89.9 .1 .0
FORT ORD 7266	-43.7 .7	24.2 .9	12.0 6.6	-3.5	-1.4	11.9	50.0 .8	299.0 1.0	3.7 .7	248.6 14.1	6.6 .9 .7	159.1 351.6 81.6	89.2 .8 -2
FORTORDS 7241	-43.8 .7	24.2 .9	12.0 6.6	-3.5	-1.3	11.9	50.1 .8	298.9 1.0	3.7 .7	248.9 14.1	6.6 .9 .7	156.9 351.6 81.6	89.3 .7 -2
FTD 7900 7900	-12.5 .0	-7.4 .0	.0 .0	.0	.0	.0	14.5 .0	239.3 .0	.0 .0	.0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
GILCREEK 7225	-11.8 .4	-20.1 .4	-1.5 .8	-1.0	1.0	-1.4	23.3 .5	210.4 .9	1.4 .4	314.4 18.2	.9 .4 .2	66.8 355.8 89.0	66.7 -8.0 -21.8
GOLDVENU 1513	-19.5 .3	-4.9 .3	-5.0 1.1	-6.7	7.4	-5.0	20.1 .3	255.8 1.0	10.0 .3	317.6 1.9	1.1 .3 .3	58.2 348.6 78.8	84.1 -2.1 -5.5
GORF7102 7102	-16.0 1.1	4.7 1.4	29.2 7.8	-.3	.9	29.2	16.7 1.1	286.3 4.9	.9 1.4	339.8 71.8	7.8 1.4 1.1	209.4 4.7 94.7	88.7 1.2 .5
GRASSE 7605	21.0 .0	15.0 .0	.0 .0	.0	.0	.0	25.8 .0	54.4 .0	.0 .0	.0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
HALEAKAL 7120	-67.2 .7	34.2 .8	-.3 .1	-6.2	.6	-.4	75.4 .9	297.0 .4	6.3 .7	275.4 6.7	.9 .5 .0	319.5 49.4 294.7	-3.2 1.5 86.5
HARTRAO 7232	13.2 2.2	14.1 2.1	1.1 2.3	-8.5	-6.9	1.1	19.3 2.2	43.0 6.1	10.9 2.2	230.9 10.7	2.8 2.2 1.3	316.2 48.6 320.5	49.4 2.1 -40.5
HATCREEK 7218	-22.5 .3	-7.8 .3	-2.4 1.1	-8.9	6.2	-2.3	23.8 .3	251.0 .8	10.9 .3	304.7 1.6	1.1 .3 .2	91.8 355.7 85.6	83.7 .7 -6.3
HAYSTACK 7205	-16.0 .1	6.0 .1	-.8 .4	.4	.0	-.9	17.1 .1	290.6 .5	.4 .1	86.7 19.7	.4 .1 .1	321.3 5.2 95.0	85.2 -3.5 3.3
HOBART26 7242	14.4 2.7	49.9 3.2	11.6 5.4	1.0	-6.9	11.7	52.0 3.0	16.1 3.2	7.0 3.3	172.1 21.8	5.5 3.3 2.5	16.4 330.7 61.6	80.2 -6.9 -7.0
HOHENFRG 7600	20.1 .0	14.5 .0	.0 .0	.0	.0	.0	24.8 .0	54.2 .0	.0 .0	.0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0

Table 43 (continued)

Site Velocities in Topocentric Reference Frames													
Sitename Monument	Total Rates			Relative to NUVEL			Total Rate		Relative to NUVEL		Error Ellipsoid		
	East mm/yr	North mm/yr	Up mm/yr	East mm/yr	North mm/yr	Up mm/yr	Hor mm/yr	Az deg	Hor mm/yr	Az deg	Amp mm/yr	Az deg	Elev deg
JPL MV1 7263	-40.7 .5	9.2 .7	4.7 5.7	1.1	-14.9	4.6	41.8 .6	282.7 1.0	15.0 .7	175.8 2.1	5.7 .7 .5	176.9 347.5 77.5	89.1 .9 .2
KASHIM34 1857	-6.4 .9	-12.0 1.4	-6.2 1.4	-15.2	5.5	-6.1	13.6 1.2	208.1 4.8	16.1 1.1	289.9 4.6	1.9 1.0 .6	358.5 296.1 44.0	45.8 -24.2 -34.3
KASHIMA 1856	-6.4 .9	-12.0 1.4	-6.2 1.4	-15.2	5.5	-6.1	13.6 1.2	208.1 4.8	16.1 1.1	289.9 4.6	1.9 1.0 .6	358.5 296.1 44.0	45.8 -24.2 -34.3
KAUAI 1311	-67.3 .7	34.3 .8	.0 .0	-6.2	.5	.0	75.5 .9	297.0 .4	6.3 .7	274.2 6.6	.9 .5 .0	318.2 48.2 .0	.0 .0 .0
KODIAK 7278	-15.4 1.1	-14.0 1.0	14.8 7.2	-6.7	8.0	14.9	20.8 1.0	227.6 2.9	10.4 1.0	319.9 5.4	7.2 1.0 1.0	120.1 100.0 10.1	87.9 -2.0 .7
KWAJAL26 4968	-75.2 1.4	26.4 2.0	-2.4 4.7	-6.8	-3.0	-2.4	79.7 1.6	289.3 1.3	7.4 1.4	246.4 15.8	4.8 2.0 1.3	11.7 338.0 68.6	81.4 -7.2 -4.7
LA-VLBA 7611	-14.0 .0	-8.3 .0	.0 .0	.0	.0	.0	16.3 .0	239.2 .0	.0 .0	.0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
LEONRDOK 7292	-14.7 .0	-4.1 .0	.0 .0	.0	.0	.0	15.2 .0	254.4 .0	.0 .0	.0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
MAMMOTHL 7259	-25.9 1.6	-3.1 2.2	-1.0 17.5	-12.8	10.0	-.9	26.1 1.6	263.2 5.0	16.3 2.0	307.9 6.7	17.5 2.2 1.6	173.6 346.4 76.4	88.2 1.8 .2
MARCUS 7310	-70.2 .0	24.6 .0	.0 .0	.0	.0	.0	74.4 .0	289.3 .0	.0 .0	.0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
MARPOINT 7217	-15.8 .3	3.9 .5	-4.6 2.2	-.3	.3	-4.6	16.3 .3	283.9 1.6	.4 .4	310.4 59.6	2.2 .5 .3	146.9 7.5 97.5	89.8 .2 -2
MATERA 7243	24.7 1.3	22.3 1.3	-33.5 5.2	1.7	8.9	-33.5	33.3 1.4	48.0 2.2	9.1 1.4	10.9 7.9	5.2 1.4 1.2	300.7 27.8 117.8	86.3 -2 3.7
MCD 7850 7850	-12.5 .0	-7.5 .0	.0 .0	.0	.0	.0	14.6 .0	239.2 .0	.0 .0	.0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
MEDICINA 7230	22.6 .7	15.4 .8	-1.9 1.8	.9	1.1	-2.0	27.3 .7	55.8 1.5	1.4 .8	39.1 27.7	1.8 .8 .6	313.3 25.5 114.7	78.0 -3.7 11.4
METSHOVI 7601	21.3 .0	11.8 .0	.0 .0	.0	.0	.0	24.4 .0	61.0 .0	.0 .0	.0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0

Table 43 (continued)

Site Velocities in Topocentric Reference Frames													
Sitename Monument	Total Rates			Relative to NUVEL			Total Rate		Relative to NUVEL		Error Ellipsoid		
	East mm/yr	North mm/yr	Up mm/yr	East mm/yr	North mm/yr	Up mm/yr	Hor mm/yr	Az deg	Hor mm/yr	Az deg	Amp mm/yr	Az deg	Elev deg
MILESMON 7038	-17.0 .0	-8.2 .0	.0 .0	.0	.0	.0	18.9 .0	244.4 .0	.0 .0	.0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
MIYAZAKI 7312	21.8 .0	-15.5 .0	.0 .0	.0	.0	.0	26.8 .0	125.3 .0	.0 .0	.0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
MIZUSGSI 7314	9.5 .0	-17.6 .0	.0 .0	.0	.0	.0	20.0 .0	151.8 .0	.0 .0	.0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
MOJ 7288 7288	-19.2 .2	-4.3 .2	-4.8 .6	-6.5	8.0	-4.7	19.7 .2	257.4 .7	10.3 .3	321.1 1.1	.6 .3 .1	86.3 339.4 68.1	74.3 4.7 -14.9
MOJAVE12 7222	-19.2 .2	-4.3 .2	-4.8 .6	-6.5	8.0	-4.7	19.7 .2	257.4 .7	10.3 .3	321.1 1.0	.6 .3 .1	86.3 339.4 68.1	74.3 4.7 -14.9
MON PEAK 7274	-45.8 .4	13.9 .5	-7.2 3.3	-3.0	-9.5	-7.3	47.8 .4	286.9 .5	10.0 .5	197.6 2.2	3.3 .5 .4	99.6 355.6 85.6	88.7 .3 -1.2
NOBEY 6M 7244	9.2 .0	-16.8 .0	.0 .0	.0	.0	.0	19.2 .0	151.4 .0	.0 .0	.0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
NOME 7279	-2.2 .8	-26.5 1.2	9.7 6.0	2.2	-3.0	9.8	26.6 1.2	184.8 1.9	3.7 1.2	143.4 13.6	6.1 1.2 .8	135.7 347.2 77.1	87.0 2.6 -1.6
NOTO 7547	18.1 1.1	20.5 1.1	4.8 3.4	-5.0	6.7	4.8	27.3 1.1	41.5 2.1	8.4 1.0	323.6 7.7	3.5 1.1 .9	330.4 48.9 138.7	83.4 -1.3 6.4
NRAO 140 7204	-16.1 .2	3.0 .2	-1.8 .8	-.5	.4	-1.8	16.3 .2	280.6 .7	.6 .2	313.2 16.3	.8 .2 .2	305.8 359.5 89.5	88.0 -1.2 1.6
NRAO85 3 7214	-20.5 .4	4.6 .4	5.0 1.4	-4.9	2.1	5.0	21.0 .4	282.7 1.1	5.3 .4	292.7 4.3	1.4 .4 .4	258.1 345.1 75.0	86.2 -2 3.8
OCOTILLO 7270	-42.7 .0	23.1 .0	.0 .0	.0	.0	.0	48.5 .0	298.4 .0	.0 .0	.0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
ONSLA60 7213	17.4 .5	12.9 .6	2.7 1.0	-2.1	-1.4	2.7	21.6 .5	53.5 1.5	2.5 .5	237.0 12.9	1.1 .6 .2	310.8 25.4 111.9	63.7 -7.5 25.0
OVR 7853 7853	-21.9 .3	-4.2 .3	-4.6 1.0	-8.9	8.7	-4.5	22.3 .3	259.2 .9	12.4 .3	314.2 1.3	1.0 .3 .2	69.7 341.0 71.0	81.8 -2 -8.2
OVRO 130 7207	-21.9 .3	-4.2 .3	-4.6 1.0	-8.9	8.7	-4.5	22.3 .3	259.2 .9	12.4 .3	314.3 1.3	1.0 .3 .2	69.7 341.0 71.0	81.8 -2 -8.2

Table 4.3 (continued)

Site Velocities in Topocentric Reference Frames													
Sitename Monument	Total Rates			Relative to NUVEL			Total Rate		Relative to NUVEL		Error Ellipsoid		
	East mm/yr	North mm/yr	Up mm/yr	East mm/yr	North mm/yr	Up mm/yr	Hor mm/yr	Az deg	Hor mm/yr	Az deg	Amp mm/yr	Az deg	Elev deg
PBLOSSOM 7254	-30.8 .8	5.1 1.2	-15.7 8.6	-18.4	17.9	-15.7	31.2 .8	279.5 2.1	25.6 1.0	314.1 2.1	8.6 1.1 .8	173.7 354.3 84.3	88.7 1.3 .0
PENTICTN 7283	-15.8 .8	-11.0 .9	23.5 8.5	.0	2.3	23.5	19.3 .8	235.2 2.7	2.3 .9	359.0 20.3	8.5 .9 .8	216.0 343.1 73.1	88.7 .8 1.0
PIETOWN 7234	-17.7 .3	-9.3 .3	-11.8 1.0	-4.4	-.3	-11.8	20.0 .3	242.2 .9	4.4 .3	266.3 4.2	1.0 .3 .3	54.6 328.5 58.5	86.5 -2 -3.5
PINFLATS 7256	-31.8 .6	5.8 .7	-1.4 5.9	10.2	-17.6	-1.5	32.4 .6	280.4 1.3	20.3 .7	149.9 1.8	5.9 .7 .6	42.0 347.2 77.2	89.8 -1 -2
PLATTVIL 7258	-17.2 .4	-8.6 .5	.4 3.6	-1.8	-.9	.4	19.3 .4	243.4 1.4	2.0 .4	243.4 13.7	3.6 .5 .4	218.1 7.1 97.1	88.1 1.7 1.0
FRESIDIO 7252	-34.2 .6	11.4 .9	-5.2 6.1	-21.6	25.7	-5.1	36.1 .7	288.5 1.3	33.6 .8	319.9 1.2	6.1 .9 .6	151.4 358.3 88.3	88.9 .9 -5
PT REYES 7251	-37.9 .5	19.4 .7	11.6 4.6	1.2	-6.6	11.5	42.6 .6	297.1 .9	6.7 .7	169.4 4.6	4.6 .7 .5	358.5 353.8 83.8	89.8 -2 .0
FVERDES 7268	-41.8 .9	16.1 1.1	-11.1 9.1	.6	-8.1	-11.2	44.8 .9	291.1 1.4	8.1 1.1	176.1 6.1	9.1 1.1 .9	199.4 359.2 89.2	89.3 .7 .3
QUINCY 7221	-24.6 .5	-6.8 .6	-5.5 3.7	-11.2	7.0	-5.4	25.5 .5	254.7 1.3	13.2 .5	302.0 2.3	3.7 .6 .5	140.8 1.9 91.9	88.7 1.0 -8
RICHMOND 7219	-11.2 .0	2.5 .1	.0 0.0	.0	.1	.0	11.4 .0	282.4 .5	.1 .1	21.1 0.0	.1 .0 .0	21.1 .0 .0	-9.3 .0 .0
ROBLED32 1561	19.6 .8	14.7 1.0	-1.2 5.1	.1	-1.7	-1.3	24.5 .9	53.2 2.0	1.7 1.0	175.5 27.1	5.1 .8 .7	30.3 152.9 63.3	82.3 4.1 -6.4
SANPAULA 7255	-42.3 .9	12.6 1.1	9.3 8.8	-.5	-11.9	9.3	44.1 .9	286.5 1.3	11.9 1.1	182.3 4.1	8.8 1.1 .8	169.0 343.7 73.7	88.9 1.1 .1
SANTIA12 1404	-1.0 .0	9.9 .0	.0 0.0	.0	.0	.0	9.9 .0	354.5 0.0	.0 .0	.0 0.0	.0 .0 .0	.0 .0 .0	.0 .0 .0
SEATTLE1 7229	-15.0 24.3	-11.2 2.2	-22.7 75.5	.0	3.0	-22.6	18.7 19.4	233.2 45.2	3.0 2.2	359.7 463.2	79.2 4.2 2.2	90.5 83.2 353.9	72.4 -17.5 2.1
SESHAN25 7227	27.1 1.4	-19.0 1.9	-9.6 3.6	3.8	-5.1	-9.5	33.1 1.6	125.0 2.9	6.4 1.8	143.1 13.6	3.7 1.8 1.3	15.3 342.6 74.0	76.6 -11.3 -7.1

Table 4.3 (continued)

Site Velocities in Topocentric Reference Frames													
Site Name Monument	Total Rates			Relative to NUVEL			Total Rate		Relative to NUVEL		Error Ellipsoid		
	East mm/yr	North mm/yr	Up mm/yr	East mm/yr	North mm/yr	Up mm/yr	Hor mm/yr	Az deg	Hor mm/yr	Az deg	Amp mm/yr	Az deg	Elev deg
SEST 7239	-1.6 .0	9.9 .0	.0 .0	.0	.0	.0	10.0 .0	351.0 .0	.0 .0	.0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
SHANGHAI 7226	27.1 1.4	-19.0 1.9	-9.6 3.6	3.9	-5.1	-9.5	33.1 1.6	125.1 2.9	6.4 1.8	142.9 13.6	3.7 1.8 1.3	14.7 342.8 74.1	76.7 -11.3 -6.8
SINTOTU 7315	10.3 .0	-17.8 .0	.0 .0	.0	.0	.0	20.6 .0	149.9 .0	.0 .0	.0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
SNDPOINT 7280	-13.5 1.6	-21.2 1.1	3.1 8.6	-7.6	2.0	3.2	25.1 1.2	212.4 3.5	7.8 1.6	284.5 8.1	8.7 1.4 1.1	107.3 102.8 12.8	85.6 -4.4 .3
SOURDOGH 7281	-21.5 1.4	-25.2 1.2	-12.8 10.3	-10.2	-4.6	-12.7	33.1 1.4	220.4 2.1	11.2 1.5	245.9 5.7	10.3 1.5 1.1	61.9 66.5 336.5	89.1 -9 -1
TITIJIMA 7316	-22.1 .0	1.5 .0	.0 .0	.0	.0	.0	22.1 .0	274.0 .0	.0 .0	.0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
TROMSONO 7602	18.0 .0	12.9 .0	.0 .0	.0	.0	.0	22.1 .0	54.3 .0	.0 .0	.0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
TRYSILNO 7607	18.7 .0	14.2 .0	.0 .0	.0	.0	.0	23.4 .0	52.9 .0	.0 .0	.0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
TSUKUBA 7311	-4.0 2.7	-12.4 4.2	-28.8 11.3	-13.0	4.9	-28.7	13.0 4.3	198.0 11.3	13.8 2.6	290.7 17.6	11.3 4.3 2.5	117.1 13.3 103.3	89.8 .0 -2
USUDA64 7246	20.3 .0	-16.3 .0	.0 .0	.0	.0	.0	26.0 .0	128.7 .0	.0 .0	.0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
VERNAL 7290	-14.4 .8	-10.1 1.2	8.5 7.9	.5	-5	8.5	17.6 1.0	235.0 3.5	.7 1.0	132.8 81.1	7.9 1.2 .8	206.5 359.6 89.6	88.2 1.6 .8
VICTORIA 7289	-14.9 .0	-14.6 .0	.0 .0	.0	.0	.0	20.9 .0	225.5 .0	.0 .0	.0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
VNDNBERG 7223	-44.3 .3	22.6 .3	.0 1.1	-2.2	-2.5	-1	49.7 .3	297.1 .3	3.3 .3	221.8 6.0	1.1 .4 .2	69.8 330.5 60.5	85.1 .8 -4.8
WESTFORD 7209	-16.5 .0	6.0 .0	.0 .0	.0	.0	.0	17.5 .0	290.0 .0	.0 .0	.0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
WETTZELL 7224	20.2 .5	13.4 .7	-2.6 .9	-1.1	-7	-2.7	24.2 .6	56.4 1.4	1.3 .6	239.1 27.6	1.1 .7 .1	319.2 32.8 117.6	59.6 -9.4 28.6

Table 4.3 (continued)

Site Velocities in Topocentric Reference Frames													
Sitename Monument	Total Rates			Relative to NUVEL			Total Rate		Relative to NUVEL		Error Ellipsoid		
	East mm/yr	North mm/yr	Up mm/yr	East mm/yr	North mm/yr	Up mm/yr	Hor mm/yr	Az deg	Hor mm/yr	Az deg	Amp mm/yr	Az deg	Elev deg
WETHORSE 7284	-15.0 2.7	-3.0 2.9	-94.0 22.4	-.8	15.2	-93.9	15.3 2.8	258.8 10.4	15.2 2.9	357.0 10.3	22.4 3.0 2.5	218.9 34.9 124.9	88.9 1.0 .1
YAKATAGA 7277	-35.2 1.6	10.3 1.4	36.8 10.4	-23.2	30.3	36.8	36.7 1.5	286.3 2.4	38.2 1.2	322.5 2.6	10.4 1.7 1.2	95.3 56.6 326.6	89.0 -.8 .6
YELLOWKN 7285	-19.2 .0	-11.5 .0	.0 .0	.0	.0	.0	22.3 .0	239.1 .0	.0 .0	.0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
YLOW7296 7296	-19.2 .0	-11.5 .0	.0 .0	.0	.0	.0	22.3 .0	239.1 .0	.0 .0	.0 .0	.0 .0 .0	.0 .0 .0	.0 .0 .0
YUMA 7894	-15.6 .6	-10.5 .9	14.4 6.2	-3.3	.8	14.4	18.8 .7	236.0 2.5	3.4 .6	284.4 14.6	6.2 .9 .6	140.9 357.6 87.6	89.3 .5 -.4



5.0 Site Positions by Year from GLB867

Tables 5.1 through 5.17 give the Cartesian coordinates for each site on January 1.5 from 1979 through 1995 in the VLBI reference frame. All length units are millimeters. The errors are one-sigma standard statistical errors propagated to the epoch of the table. These errors do not change for a site whose velocity was not adjusted. WESTFORD is the reference station which defines the coordinate system origin.

FORTORDS and PRESIDIO each appear twice in each table. The first set of positions in each table does not take into account any discontinuous motion associated with the October 1989 Loma Prieta earthquake. They are based on the positions of these sites prior to the earthquake extrapolated to the epoch of the table. The second set of positions is based on the estimated positions after the earthquake. YAKATAGA, SOURDOGH, and WHTHORSE are treated in a similar manner in regard to any discontinuous motion associated with the series of earthquakes in the Gulf of Alaska during the winter of 1987-88. The method used to determine positions and velocities at these sites is described in the text.

Table 5.1

VLBI Site positions at January 1.5, 1979							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
ALGOPARK	7282	918035125.5	2.9	-4346132236.6	10.5	4561971050.2	10.0
AUSTINTX	7271	-737793568.0	3.7	-5459892238.3	16.1	3202990457.8	9.5
BERMUDA	7294	2307209740.6	8.3	-4874215865.9	27.9	3394317764.2	19.1
BLKBUTTE	7269	-2306306698.8	29.4	-4787914400.2	60.0	3515736468.0	43.0
BLOOMIND	7291	302384726.9	21.7	-4941699036.9	47.5	4007908421.2	37.1
BREST	7604	4228877441.9	11.1	-333104572.6	2.5	4747180767.4	12.0
CARNUSTY	7603	3526416730.5	15.4	-171421458.7	3.9	5294098649.4	20.9
CARROLGA	7228	453520873.2	9.2	-5300506763.4	34.2	3507207364.9	20.6
CHLBOLTN	7215	4008310417.2	7.5	-100651135.2	3.7	4943794566.6	9.8
DEADMANL	7267	-2336819402.8	92.7	-4732586944.1	179.2	3570330038.7	125.6
DSS15	7231	-2353538496.4	37.6	-4641649495.7	77.6	3676670061.6	79.5
DSS45	1642	-4460934543.0	44.2	2682765832.4	32.2	-3674382059.9	28.0
DSS65	1665	4849336983.7	36.1	-360489216.9	7.5	4114748550.7	38.4
EFLSBERG	7203	4033947850.0	7.7	486990128.7	4.6	4900430565.9	11.0
ELY	7286	-2077236030.8	20.6	-4486712681.3	45.0	4018753786.0	37.2
FD-VLBA	7613	-1324008852.2	5.3	-5332181909.1	11.5	3231962483.6	8.3
FLAGSTAF	7261	-1923992413.5	17.9	-4850854492.3	43.3	3658589332.6	32.8
FORT ORD	7266	-2697026393.0	23.6	-4354393587.8	38.2	3788077374.6	32.8
FORTORDS	7241	-2699839884.1	29.4	-4359127361.4	47.2	3781050722.6	40.4
FORTORDS	7241 (1)	-2699839860.2	32.1	-4359127338.5	51.6	3781050760.6	44.2
FTD 7900	7900	-1324227705.6	3.6	-5332063030.3	12.7	3232023061.2	7.7
GILCREEK	7225	-2281546790.6	3.2	-1453645004.4	4.1	5756993263.7	6.7
GOLDVENU	1513	-2351128863.5	4.0	-4655477042.0	7.9	3660956951.7	7.2
GORF7102	7102	1130686847.2	20.4	-4831352997.5	72.7	3994110786.3	59.2
GRASSE	7605	4581698032.9	13.0	556125346.6	3.7	4389351213.4	13.5
HALEAKAL	7120	-5465998222.8	14.4	-2404409024.2	8.9	2242228119.3	8.9
HARTRAO	7232	5085442978.7	31.1	2668263080.2	19.6	-2768697387.3	16.1
HATCREEK	7218	-2523969647.7	4.1	-4123506320.3	7.6	4147752646.0	7.6
HAYSTACK	7205	1492405098.9	1.3	-4457266521.4	2.9	4296881631.2	3.1
HOBART26	7242	-3950235818.9	50.8	2522347532.8	38.1	-4311563311.4	44.3
HOHENFRG	7600	3778215285.7	6.0	698644407.1	2.4	5074053412.6	8.1
JPL MV1	7263	-2493305586.6	18.0	-4655197859.8	33.2	3565519114.8	25.1
KASHIM34	1857	-3997648928.9	9.6	3276690821.4	6.3	3724279055.4	14.7
KASHIMA	1856	-3997891948.2	8.7	3276581328.0	5.6	3724118448.5	14.1
KAUAI	1311	-5543845782.6	4.0	-2054564647.1	5.6	2387813487.6	6.2
KODIAK	7278	-3026939807.9	34.0	-1575911740.9	22.2	5370362561.2	58.9
KWAJAL26	4968	-6143536496.7	34.2	1363996721.0	12.1	1034707131.1	18.4
LA-VLBA	7611	-1449752048.7	.7	-4975298550.8	2.1	3709123968.7	2.0
LEONRDOK	7292	-522231326.3	3.7	-5145676857.9	19.1	3720152325.1	12.7
MAMMOTHL	7259	-2448246502.2	44.8	-4426738303.6	79.9	3875435960.0	66.3
MARCUS	7310	-5227447012.6	15.4	2551378749.3	9.0	2607604546.0	14.2
MARPOINT	7217	1106629643.0	4.7	-4882907189.6	16.1	3938086865.9	13.3
MATERA	7243	4641939344.2	47.9	1393002633.2	17.8	4133325355.3	44.5
MCD 7850	7850	-1330007913.7	2.8	-5328391552.0	10.5	3236502743.0	6.6
MEDICINA	7230	4461370432.2	13.2	919596413.1	6.0	4449558977.0	14.8
METSHOVI	7601	2890653225.4	15.6	1310295024.7	7.1	5513958572.0	23.5
MILESMON	7038	-1204438705.4	9.2	-4239211079.2	30.1	4596266071.8	30.1
MIYAZAKI	7312	-3582767429.2	109.2	4052034149.7	71.7	3369020732.9	112.3
MIZUSGSI	7314	-3862411525.4	43.1	3105015115.5	17.4	4001945061.6	23.9
MOJ 7288	7288	-2356493845.0	6.0	-4646607652.5	11.8	3668426671.1	9.3
MOJAVE12	7222	-2356170724.0	1.6	-4646755855.8	4.6	3668470653.8	4.6
MON PEAK	7274	-2386288981.5	10.4	-4802346816.3	21.5	3444883747.7	15.8
NOBEY 6M	7244	-3871167912.2	9.8	3428274062.2	8.7	3723697820.1	13.1
NOME	7279	-2658150048.0	26.7	-693821861.6	12.1	5737236689.7	48.2
NOTO	7547	4934563558.9	29.4	1321200858.8	12.2	3806484203.0	26.9

(continued)

VLBI Site positions at January 1.5, 1979							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
NRAO 140	7204	882880226.3	1.6	-4924482314.6	5.9	3944130579.6	5.2
NRAO85 3	7214	882325916.4	4.6	-4925137978.3	13.8	3943397559.4	11.1
OCOTILLO	7270	-2335600731.8	18.0	-4832244367.2	35.3	3434392368.5	25.8
ONSALA60	7213	3370606453.0	5.4	711917152.2	3.4	53498830545.3	8.3
OVR 7853	7853	-2410420954.8	5.4	-4477800376.2	10.8	3838690368.5	9.3
OVRO 130	7207	-2409600474.4	2.3	-4478349509.5	6.1	3838603261.3	6.0
PBLOSSOM	7254	-2464070658.5	25.7	-4649425597.7	47.8	3593905745.3	36.2
PENTICTN	7283	-2058840092.2	29.2	-3621286365.0	49.2	4814420790.6	62.5
PIETOWN	7234	-1640953396.1	4.0	-5014815998.4	8.8	3575411953.3	7.5
PINFLATS	7256	-2369635528.7	18.9	-4761325163.6	37.5	3511115921.7	28.2
PLATTVIL	7258	-1240707854.7	7.8	-4720454333.4	24.5	4094481659.5	20.5
PRESIDIO	7252	-2707704592.0	22.8	-4257609563.6	36.2	3888374234.9	32.5
PRESIDIO	7252 (1)	-2707704577.1	31.2	-4257609547.0	49.3	3888374205.4	43.8
PT REYES	7251	-2732332745.5	20.2	-4217635176.3	30.7	3914490819.6	29.0
FVERDES	7268	-2525452388.7	37.1	-4670035934.9	66.6	3522886534.2	49.9
QUINCY	7221	-2517230604.6	13.5	-4198595183.1	22.8	4076531326.7	21.5
RICHMOND	7219	961258291.3	1.0	-5674090039.4	1.9	2740533681.4	1.4
ROBLED32	1561	4849245501.1	44.7	-360278565.2	9.7	4114884275.6	38.2
SANPAULA	7255	-2554476267.5	35.2	-4608627642.9	63.4	3582138068.7	47.9
SANTIA12	1404	1769693011.7	8.6	-5044504368.6	16.1	-3468435223.9	9.2
SEATTLE1	7229	-2295347674.7	89.6	-3638029431.4	647.5	4693408742.6	644.2
SESHAN25	7227	-2831686215.4	22.4	4675733909.5	27.2	3275327920.0	27.5
SEST	7239	1838237925.5	9.4	-5258699137.7	17.3	-3100589014.2	8.7
SHANGHAI	7226	-2847697574.3	110.4	4659872818.8	98.4	3283958855.8	89.6
SINTOTU	7315	-3642141484.5	84.3	2861496669.4	80.8	4370361861.2	61.1
SNDPOINT	7280	-3425461538.4	47.6	-1214669075.9	28.0	5223858346.8	71.8
SOURDOGH	7281	-2419993118.1	28.9	-1664228695.4	21.9	5643538296.0	66.9
SOURDOGH	7281 (2)	-2419993108.0	40.5	-1664228723.1	30.5	5643538354.6	93.8
TITIJIMA	7316	-4489356652.2	112.5	3482989430.8	124.5	2887931174.6	71.8
TROMSONO	7602	2102904518.3	6.4	721602265.0	4.7	5958201197.0	14.2
TRYSILNO	7607	2988029572.7	5.2	655956777.0	2.4	5578668916.8	9.9
TSUKUBA	7311	-3957172573.9	63.0	3310237983.6	55.3	3737709120.1	63.2
USUDA64	7246	-3855354941.1	33.1	3427427779.5	29.2	3740971458.0	38.7
VERNAL	7290	-1631473018.9	23.0	-4589128887.2	57.6	4106759897.2	49.3
VICTORIA	7289	-2341309777.6	10.4	-3539083823.6	15.7	4745768409.4	20.1
VNDNBERG	7223	-2678094348.7	4.2	-4525451098.1	7.8	3597409905.9	7.1
WESTFORD	7209 ref	1492206957.2	.0	-4458130515.2	.0	4296015400.4	.0
WETTZELL	7224	4075540325.5	5.8	931734884.6	3.5	4801629166.7	8.2
WETHORSE	7284	-2215213185.3	66.0	-2209261502.6	61.7	5540292447.7	148.1
WETHORSE	7284 (2)	-2215213299.1	86.6	-2209261604.0	81.5	5540292633.2	195.7
YAKATAGA	7277	-2529743866.3	34.7	-1942091271.5	28.6	5505028036.6	72.7
YAKATAGA	7277 (2)	-2529743883.1	44.9	-1942091225.9	36.7	5505027897.6	93.9
YELLOWKN	7285	-1224124159.2	5.4	-2689530603.0	11.5	5633555305.3	23.9
YLOW7296	7296	-1224399083.6	1.9	-2689273186.3	3.1	5633620271.1	5.0
YUMA	7894	-2196777671.5	18.2	-4887337027.4	40.2	3448425277.5	28.6

Notes:

- (1) Positions after the October 1989 Loma Prieta earthquake extrapolated to the site reference epoch.
 - (2) Positions after the winter 1987-88 Gulf of Alaska earthquakes extrapolated to the site reference epoch.
- ref Reference station which defines the coordinate system origin.

Table 5.2

VLBI Site positions at January 1.5, 1980							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
ALGOPARK	7282	918035107.6	2.6	-4346132237.9	9.6	4561971052.5	9.2
AUSTINTX	7271	-737793580.9	3.7	-5459892239.0	16.1	3202990453.6	9.5
BERMUDA	7294	2307209727.0	8.3	-4874215867.2	27.9	3394317771.5	19.1
BLKBUTTE	7269	-2306306712.8	25.9	-4787914400.7	52.8	3515736458.0	37.9
BLOOMIND	7291	302384711.0	21.7	-4941699038.0	47.5	4007908421.0	37.1
BREST	7604	4228877431.1	11.1	-333104553.8	2.5	4747180778.4	12.0
CARNUSTY	7603	3526416717.9	15.4	-171421441.6	3.9	5294098658.4	20.9
CARROLGA	7228	453520859.2	9.2	-5300506764.4	34.2	3507207365.2	20.6
CHLBOLTN	7215	4008310405.2	7.5	-100651116.9	3.7	4943794576.7	9.8
DEADMANL	7267	-2336819417.0	82.0	-4732586944.7	158.6	3570330028.7	111.1
DSS15	7231	-2353538510.9	33.7	-4641649496.2	69.6	3676670051.6	71.2
DSS45	1642	-4460934580.3	40.4	2682765833.2	29.3	-3674382014.0	25.4
DSS65	1665	4849336974.6	32.6	-360489196.7	6.7	4114748563.2	34.7
EFLSBERG	7203	4033947836.2	6.9	486990147.0	4.2	4900430575.5	10.0
ELY	7286	-2077236046.7	18.5	-4486712682.1	40.3	4018753777.0	33.3
FD-VLBA	7613	-1324008865.2	5.3	-5332181909.7	11.5	3231962477.2	8.3
FLAGSTAF	7261	-1923992428.1	15.9	-4850854492.9	38.6	3658589324.1	29.2
FORT ORD	7266	-2697026419.2	20.8	-4354393553.7	33.7	3788077395.1	29.0
FORTORDS	7241	-2699839910.4	26.6	-4359127327.2	42.8	3781050743.1	36.6
FORTORDS	7241 (1)	-2699839886.5	29.3	-4359127304.4	47.1	3781050781.2	40.3
FTD	7900	-1324227718.6	3.6	-5332063031.0	12.7	3232023054.8	7.7
GILCREEK	7225	-2281546812.5	2.8	-1453645005.6	3.7	5756993254.7	6.0
GOLDVENU	1513	-2351128878.1	3.7	-4655477042.6	7.1	3660956941.6	6.5
GORF7102	7102	1130686831.4	18.7	-4831352998.7	66.7	3994110789.3	54.3
GRASSE	7605	4581698020.1	13.0	556125366.2	3.7	4389351224.2	13.5
HALEAKAL	7120	-5465998236.5	14.3	-2404408963.7	8.5	2242228150.7	8.6
HARTRAO	7232	5085442976.7	28.4	2668263103.6	17.8	-2768697368.4	14.6
HATCREEK	7218	-2523969663.9	3.7	-4123506320.9	6.9	4147752635.4	6.9
HAYSTACK	7205	1492405082.0	1.2	-4457266522.8	2.7	4296881635.7	2.8
HOBART26	7242	-3950235858.5	46.5	2522347542.2	34.7	-4311563269.6	40.4
HOENFRG	7600	3778215270.7	6.0	698644424.7	2.4	5074053421.3	8.1
JPL MV1	7263	-2493305617.1	15.7	-4655197828.2	29.1	3565519134.8	22.0
KASHIM34	1857	-3997648942.4	8.7	3276690821.0	5.7	3724279041.3	13.0
KASHIMA	1856	-3997891961.6	7.8	3276581327.7	5.0	3724118434.3	12.4
KAUAI	1311	-5543845791.9	3.8	-2054564585.6	5.0	2387813518.9	5.7
KODIAK	7278	-3026939828.4	30.6	-1575911741.9	20.0	5370362549.4	52.9
KWAJAL26	4968	-6143536477.2	29.9	1363996786.7	10.6	1034707160.1	16.2
LA-VLBA	7611	-1449752063.5	.7	-4975298551.5	2.1	3709123962.0	2.0
LEONRDOK	7292	-522231341.1	3.7	-5145676858.8	19.1	3720152321.8	12.7
MAMMOTHL	7259	-2448246517.5	38.1	-4426738304.2	67.8	3875435949.6	56.3
MARCUS	7310	-5227446972.8	15.4	2551378807.9	9.0	2607604568.5	14.2
MARPOINT	7217	1106629627.4	4.2	-4882907190.8	14.5	3938086868.8	11.9
MATERA	7243	4641939329.2	44.0	1393002652.7	16.3	4133325365.4	40.9
MCD	7850	-1330007926.7	2.8	-5328391552.6	10.5	3236502736.6	6.6
MEDICINA	7230	4461370418.1	12.0	919596432.4	5.4	4449558987.2	13.4
METSHOVI	7601	2890653207.3	15.6	1310295039.9	7.1	5513958577.8	23.5
MILESMON	7038	-1204438723.4	9.2	-4239211080.3	30.1	4596266066.2	30.1
MIYAZAKI	7312	-3582767451.0	109.2	4052034141.4	71.7	3369020719.8	112.3
MIZUSGSI	7314	-3862411539.9	43.1	3105015115.1	17.4	4001945047.9	23.9
MOJ	7288	-2356493859.5	5.9	-4646607653.1	11.6	3668426661.0	9.2
MOJAVE12	7222	-2356170738.6	1.4	-4646755856.4	4.2	3668470643.7	4.2
MON PEAK	7274	-2386289014.1	9.2	-4802346786.0	19.0	3444883767.4	14.1
NOBEY 6M	7244	-3871167925.6	9.8	3428274061.8	8.7	3723697806.5	13.1
NOME	7279	-2658150069.7	24.0	-693821862.7	10.9	5737236679.6	43.0
NOTO	7547	4934563545.0	26.8	1321200878.9	11.1	3806484214.0	24.5

(continued)

VLBI Site positions at January 1.5, 1980							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
NRAO 140	7204	882880210.7	1.5	-4924482315.8	5.4	3944130581.6	4.7
NRAO85 3	7214	882325900.8	4.2	-4925137979.5	12.7	3943397561.4	10.2
OCOTILLO	7270	-2335600764.8	18.0	-4832244337.4	35.3	3434392387.9	25.8
ONSALA60	7213	3370606437.3	4.8	711917168.8	3.1	5349830553.0	7.4
OVR 7853	7853	-2410420969.9	5.3	-4477800376.8	10.4	3838690358.3	8.9
OVRO 130	7207	-2409600489.5	2.1	-4478349510.1	5.4	3838603251.0	5.4
PBLOSSOM	7254	-2464070672.8	22.3	-4649425598.3	41.6	3593905734.7	31.5
PENTICTN	7283	-2058840110.9	26.4	-3621286366.0	44.5	4814420781.9	56.4
PIETOWN	7234	-1640953410.3	3.6	-5014815999.1	8.0	3575411945.8	6.9
PINFLATS	7256	-2369635560.6	16.7	-4761325133.4	33.1	3511115941.2	25.0
PLATTVIL	7258	-1240707870.9	7.0	-4720454334.3	21.8	4094481653.6	18.3
PRESIDIO	7252	-2707704607.3	20.3	-4257609564.2	32.1	3888374223.6	28.8
PRESIDIO	7252 (1)	-2707704592.4	28.7	-4257609547.6	45.2	3888374194.1	40.1
PT REYES	7251	-2732332769.7	18.2	-4217635141.6	27.6	3914490840.1	26.2
PVERDES	7268	-2525452419.5	33.4	-4670035903.0	60.0	3522886554.4	44.9
QUINCY	7221	-2517230620.6	12.1	-4198595183.7	20.4	4076531316.1	19.3
RICHMOND	7219	961258280.0	1.0	-5674090040.3	1.8	2740533683.5	1.3
ROBLED32	1561	4849245492.0	43.6	-360278545.0	9.4	4114884288.1	36.7
SANPAULA	7255	-2554476297.4	31.6	-4608627610.6	57.0	3582138088.9	43.0
SANTIA12	1404	1769693012.6	8.6	-5044504374.0	16.1	-3468435215.6	9.2
SEATTLE1	7229	-2295347693.0	81.6	-3638029432.3	591.7	4693408733.0	588.5
SESHAN25	7227	-2831686239.0	20.3	4675733903.5	24.7	3275327908.2	24.8
SEST	7239	1838237925.6	9.4	-5258699142.7	17.3	-3100589005.6	8.7
SHANGHAI	7226	-2847697597.8	110.2	4659872812.8	98.0	3283958843.9	89.0
SINTOTU	7315	-3642141500.4	84.3	2861496668.8	80.8	4370361848.2	61.1
SNDPOINT	7280	-3425461558.2	43.0	-1214669076.7	25.3	5223858333.6	64.9
SOURDOGH	7281	-2419993139.6	25.0	-1664228696.5	19.0	5643538286.5	57.8
SOURDOGH	7281 (2)	-2419993129.5	36.5	-1664228724.2	27.5	5643538345.1	84.6
TITIJIMA	7316	-4489356638.1	112.5	3482989447.8	124.5	2887931175.9	71.8
TROMSONO	7602	2102904501.0	6.4	721602278.0	4.7	5958201201.5	14.2
TRYSILNO	7607	2988029556.6	5.2	655956792.6	2.4	5578668923.6	9.9
TSUKUBA	7311	-3957172587.4	55.7	3310237983.2	48.9	3737709106.1	55.9
USUDA64	7246	-3855354961.7	33.1	3427427770.7	29.2	3740971444.8	38.7
VERNAL	7290	-1631473035.1	20.7	-4589128888.0	51.8	4106759889.8	44.4
VICTORIA	7289	-2341309796.0	10.4	-3539083824.5	15.7	4745768399.7	20.1
VNDNBERG	7223	-2678094377.6	3.8	-4525451064.5	7.0	3597409926.6	6.4
WESTFORD	7209 ref	1492206940.3	.0	-4458130516.6	.0	4296015404.9	.0
WETTZELL	7224	4075540310.4	5.2	931734903.0	3.1	4801629176.0	7.3
WHTHORSE	7284	-2215213206.5	57.6	-2209261503.7	53.7	5540292438.8	128.9
WHTHORSE	7284 (2)	-2215213320.3	78.0	-2209261605.1	73.4	5540292624.3	176.4
YAKATAGA	7277	-2529743887.3	30.4	-1942091272.5	25.1	5505028026.6	63.8
YAKATAGA	7277 (2)	-2529743904.1	40.6	-1942091227.0	33.1	5505027887.6	85.0
YELLOWKN	7285	-1224124180.9	5.4	-2689530604.3	11.5	563355299.9	23.9
YLOW7296	7296	-1224399105.2	1.9	-2689273187.6	3.1	5633620265.8	5.0
YUMA	7894	-2196777685.2	16.0	-4887337028.0	35.4	3448425267.9	25.3

Notes:

(1) Positions after the October 1989 Loma Prieta earthquake extrapolated to the site reference epoch.

(2) Positions after the winter 1987-88 Gulf of Alaska earthquakes extrapolated to the site reference epoch.

ref Reference station which defines the coordinate system origin.

Table 5.3

VLBI Site positions at January 1.5, 1981							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
ALGOPARK	7282	918035089.7	2.4	-4346132239.3	8.7	4561971054.8	8.3
AUSTINTX	7271	-737793593.9	3.7	-5459892239.7	16.1	3202990449.4	9.5
BERMUDA	7294	2307209713.4	8.3	-4874215868.5	27.9	3394317778.9	19.1
BLKBUTTE	7269	-2306306726.8	22.4	-4787914401.3	45.7	3515736448.1	32.8
BLOOMIND	7291	302384695.1	21.7	-4941699039.1	47.5	4007908420.8	37.1
BREST	7604	4228877420.3	11.1	-333104534.9	2.5	4747180789.3	12.0
CARNUSTY	7603	3526416705.2	15.4	-171421424.5	3.9	5294098667.5	20.9
CARROLGA	7228	453520845.1	9.2	-5300506765.4	34.2	3507207365.5	20.6
CHLBOLTN	7215	4008310393.1	7.5	-100651098.5	3.7	4943794586.9	9.8
DEADMANL	7267	-2336819431.3	71.3	-4732586945.2	137.9	3570330018.6	96.6
DSS15	7231	-2353538525.6	29.8	-4641649496.8	61.5	3676670041.5	62.8
DSS45	1642	-4460934617.7	36.6	2682765834.0	26.4	-3674381968.0	22.8
DSS65	1665	4849336965.4	29.1	-360489176.4	6.0	4114748575.8	31.0
EFLSBERG	7203	4033947822.2	6.3	486990165.4	3.7	4900430585.1	9.0
ELY	7286	-2077236062.6	16.3	-4486712682.8	35.6	4018753768.0	29.4
FD-VLBA	7613	-1324008878.3	5.3	-5332181910.4	11.5	3231962470.7	8.3
FLAGSTAF	7261	-1923992442.6	14.0	-4850854493.6	33.9	3658589315.5	25.5
FORT ORD	7266	-2697026445.5	18.1	-4354393519.5	29.2	3788077415.7	25.2
FORTORDS	7241	-2699839936.8	23.9	-4359127293.0	38.3	3781050763.8	32.8
FORTORDS	7241 (1)	-2699839912.9	26.5	-4359127270.2	42.5	3781050801.8	36.4
FTD 7900	7900	-1324227731.6	3.6	-5332063031.6	12.7	3232023048.4	7.7
GLLCREEK	7225	-2281546834.4	2.5	-1453645006.7	3.3	5756993245.7	5.3
GOLDVENU	1513	-2351128892.6	3.3	-4655477043.2	6.3	3660956931.5	5.9
GORF7102	7102	1130686815.6	17.0	-4831353000.0	60.6	3994110792.3	49.4
GRASSE	7605	4581698007.2	13.0	556125385.8	3.7	4389351235.2	13.5
HALEAKAL	7120	-5465998250.2	14.3	-2404408903.0	8.1	2242228182.3	8.3
HARIRAO	7232	5085442974.7	25.7	2668263127.1	16.0	-2768697349.4	13.1
HATCREEK	7218	-2523969680.3	3.3	-4123506321.6	6.1	4147752624.8	6.2
HAYSTACK	7205	1492405065.1	1.1	-4457266524.2	2.4	4296881640.1	2.5
HOBART26	7242	-3950235898.3	42.2	2522347551.6	31.3	-4311563227.6	36.6
HOHENFRG	7600	3778215255.6	6.0	698644442.5	2.4	5074053430.1	8.1
JPL MV1	7263	-2493305647.6	13.5	-4655197796.5	25.0	3565519154.9	19.0
KASHIM34	1857	-3997648955.9	7.7	3276690820.7	5.1	3724279027.1	11.4
KASHIMA	1856	-3997891975.1	6.8	3276581327.3	4.4	3724118420.1	10.8
KAUAI	1311	-5543845801.3	3.6	-2054564523.8	4.3	2387813550.3	5.3
KODIAK	7278	-3026939848.9	27.1	-1575911742.8	17.8	5370362537.6	47.0
KWAJAL26	4968	-6143536457.7	25.5	1363996852.5	9.0	1034707189.1	14.0
LA-VLBA	7611	-1449752078.3	.7	-4975298552.3	2.1	3709123955.2	2.0
LEONRDOK	7292	-522231356.0	3.7	-5145676859.7	19.1	3720152318.4	12.7
MAMMOTHL	7259	-2448246532.8	31.4	-4426738304.8	55.8	3875435939.2	46.4
MARCUS	7310	-5227446932.9	15.4	2551378866.7	9.0	2607604590.9	14.2
MARPOINT	7217	1106629611.7	3.8	-4882907192.1	12.9	3938086871.7	10.6
MATERA	7243	4641939314.3	40.1	1393002672.3	14.9	4133325375.6	37.3
MCD 7850	7850	-1330007939.8	2.8	-5328391553.3	10.5	3236502730.2	6.6
MEDICINA	7230	4461370403.9	10.7	919596451.7	4.8	4449558997.4	12.1
METSHOVI	7601	2890653189.2	15.6	1310295055.2	7.1	5513958583.7	23.5
MILESMON	7038	-1204438741.4	9.2	-4239211081.3	30.1	4596266060.5	30.1
MIYAZAKI	7312	-3582767472.8	109.2	4052034133.0	71.7	3369020706.6	112.3
MIZUSGSI	7314	-3862411554.5	43.1	3105015114.6	17.4	4001945034.2	23.9
MOJ 7288	7288	-2356493874.1	5.9	-4646607653.7	11.5	3668426650.9	9.0
MOJAVE12	7222	-2356170753.1	1.3	-4646755857.0	3.7	3668470633.6	3.9
MON PEAK	7274	-2386289046.8	8.0	-4802346755.6	16.6	3444883787.1	12.3
NOBEY 6M	7244	-3871167939.1	9.8	3428274061.5	8.7	3723697792.8	13.1
NOME	7279	-2658150091.4	21.3	-693821863.8	9.7	5737236669.4	37.9
NOTO	7547	4934563531.1	24.2	1321200899.1	10.0	3806484225.0	22.2

(continued)

VLBI Site positions at January 1.5, 1981							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
NRAO 140	7204	882880195.0	1.3	-4924482317.0	4.8	3944130583.7	4.2
NRAO85 3	7214	882325885.1	3.8	-4925137980.7	11.5	3943397563.4	9.3
OCOTILLO	7270	-2335600797.9	18.0	-4832244307.5	35.3	3434392407.4	25.8
ONSALA60	7213	3370606421.5	4.3	711917185.4	2.7	5349830560.7	6.5
OVR 7853	7853	-2410420985.2	5.2	-4477800377.4	10.0	3838690348.0	8.6
OVRO 130	7207	-2409600504.7	1.8	-4478349510.7	4.7	3838603240.7	4.8
PBLOSSOM	7254	-2464070687.1	19.0	-4649425598.9	35.4	3593905724.2	26.9
PENTICTN	7283	-2058840129.6	23.5	-3621286366.9	39.8	4814420773.1	50.3
PIETOWN	7234	-1640953424.6	3.3	-5014815999.8	7.2	3575411938.3	6.3
PINFLATS	7256	-2369635592.5	14.5	-4761325103.1	28.8	3511115960.8	21.7
PLATTVIL	7258	-1240707887.1	6.1	-4720454335.1	19.2	4094481647.7	16.0
PRESIDIO	7252	-2707704622.6	17.7	-4257609564.7	28.0	3888374212.3	25.2
PRESIDIO 7252	(1)	-2707704607.7	26.1	-4257609548.1	41.1	3888374182.8	36.5
PT REYES	7251	-2732332793.9	16.2	-4217635106.8	24.6	3914490860.6	23.3
PVERDES	7268	-2525452450.5	29.7	-4670035871.1	53.3	3522886574.6	39.9
QUINCY	7221	-2517230636.7	10.6	-4198595184.4	18.0	4076531305.5	17.0
RICHMOND	7219	961258268.8	1.0	-5674090041.2	1.8	2740533685.6	1.3
ROBLED32	1561	4849245482.9	42.8	-360278524.8	9.2	4114884300.6	35.6
SANPAULA	7255	-2554476327.3	28.0	-4608627578.2	50.6	3582138109.2	38.2
SANTIA12	1404	1769693013.5	8.6	-5044504379.4	16.1	-3468435207.3	9.2
SEATTLE1	7229	-2295347711.3	73.6	-3638029433.2	535.7	4693408723.4	532.8
SESHAN25	7227	-2831686262.6	18.3	4675733897.6	22.3	3275327896.2	22.2
SEST	7239	1838237925.7	9.4	-5258699147.8	17.3	-3100588996.9	8.7
SHANGHAI	7226	-2847697621.4	109.9	4659872806.8	97.6	3283958832.0	88.5
SINTOTU	7315	-3642141516.4	84.3	2861496668.3	80.8	4370361835.3	61.1
SNDPOINT	7280	-3425461578.1	38.4	-1214669077.6	22.7	5223858320.4	57.9
SOURDOGH	7281	-2419993161.1	21.1	-1664228697.6	16.0	5643538276.9	48.8
SOURDOGH	7281 (2)	-2419993151.0	32.6	-1664228725.3	24.5	5643538335.5	75.5
TITIJIMA	7316	-4489356624.0	112.5	3482989464.9	124.5	2887931177.3	71.8
TROMSONO	7602	2102904483.7	6.4	721802291.1	4.7	5958201206.1	14.2
TRYSILNO	7607	2988029540.5	5.2	655956808.2	2.4	5578668930.4	9.9
TSUKUBA	7311	-3957172601.0	48.5	3310237982.9	42.5	3737709092.1	48.7
USUDA64	7246	-3855354982.4	33.1	3427427761.8	29.2	3740971431.6	38.7
VERNAL	7290	-1631473051.3	18.4	-4589128888.8	46.0	4106759882.5	39.4
VICTORIA	7289	-2341309814.4	10.4	-3539083825.4	15.7	4745768389.9	20.1
VNDNBERG	7223	-2678094406.7	3.4	-4525451030.8	6.1	3597409947.4	5.8
WESTFORD	7209 ref	1492206923.4	.0	-4458130518.0	.0	4296015409.3	.0
WETTZELL	7224	4075540295.3	4.6	931734921.4	2.8	4801629185.2	6.5
WETHORSE	7284	-2215213227.8	49.3	-2209261504.8	45.8	5540292429.8	109.9
WETHORSE	7284 (2)	-2215213341.5	69.4	-2209261606.2	65.3	5540292615.3	157.0
YAKATAGA	7277	-2529743908.3	26.2	-1942091273.6	21.6	5505028016.5	54.9
YAKATAGA	7277 (2)	-2529743925.1	36.3	-1942091228.0	29.6	5505027877.5	76.0
YELLOWKN	7285	-1224124202.5	5.4	-2689530605.6	11.5	563355294.6	23.9
YLOW7296	7296	-1224399126.9	1.9	-2689273188.9	3.1	5633620260.4	5.0
YUMA	7894	-2196777699.0	13.9	-4887337028.5	30.6	3448425258.3	21.9

Notes:

- (1) Positions after the October 1989 Loma Prieta earthquake extrapolated to the site reference epoch.
 - (2) Positions after the winter 1987-88 Gulf of Alaska earthquakes extrapolated to the site reference epoch.
- ref Reference station which defines the coordinate system origin.

Table 5.4

VLBI Site positions at January 1.5, 1982							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
ALGOPARK	7282	918035071.8	2.1	-4346132240.6	7.8	4561971057.1	7.5
AUSTINTX	7271	-737793606.8	3.7	-5459892240.5	16.1	3202990445.2	9.5
BERMUDA	7294	2307209699.9	8.3	-4874215869.7	27.9	3394317786.3	19.1
BLKBUTTE	7269	-2306306740.8	18.9	-4787914401.8	38.6	3515736438.1	27.7
BLOOMIND	7291	302384679.2	21.7	-4941699040.3	47.5	4007908420.7	37.1
BREST	7604	4228877409.5	11.1	-333104516.1	2.5	4747180800.2	12.0
CARNUSTY	7603	3528416692.5	15.4	-171421407.5	3.9	5294098676.5	20.9
CARROLGA	7228	453520831.0	9.2	-5300506766.4	34.2	3507207365.8	20.6
CHLBOLTN	7215	4008310381.1	7.5	-100651080.3	3.7	4943794597.0	8.8
DEADMANL	7267	-2336819445.4	60.7	-4732586945.8	117.4	3570330008.6	82.2
DSS15	7231	-2353538540.1	26.0	-4641649497.4	53.5	3676670031.4	54.4
DSS45	1642	-4460934654.9	32.9	2682765834.8	23.5	-3674381922.2	20.3
DSS65	1665	4849336956.3	25.6	-360489156.2	5.4	4114748588.3	27.2
EFLSBERG	7203	4033947808.4	5.6	486990183.7	3.3	4900430594.7	8.1
ELY	7286	-2077236078.4	14.2	-4486712683.5	31.0	4018753759.0	25.6
FD-VLBA	7613	-1324008891.3	5.3	-5332181911.0	11.5	3231962464.4	8.3
FLAGSTAF	7261	-1923992457.2	12.1	-4850854494.3	29.3	3658589307.0	22.0
FORT ORD	7266	-2697026471.7	15.4	-4354393485.4	24.8	3788077436.3	21.4
FORTORDS	7241	-2699839963.1	21.1	-4359127258.9	33.9	3781050784.3	29.0
FORTORDS	7241 (1)	-2699839939.2	23.7	-4359127236.1	38.0	3781050822.3	32.6
FTD	7900	-1324227744.7	3.6	-5332063032.2	12.7	3232023042.0	7.7
GILCREEK	7225	-2281546856.3	2.2	-1453645007.9	2.9	5756993236.8	4.7
GOLDVENU	1513	-2351128907.1	2.9	-4655477043.8	5.5	3660956921.5	5.3
GORF7102	7102	1130686799.8	15.3	-4831353001.2	54.6	3994110795.2	44.5
GRASSE	7605	4581697994.4	13.0	556125405.4	3.7	4389351246.1	13.5
HALEAKAL	7120	-5465998264.0	14.2	-2404408842.5	7.8	2242228213.8	8.0
HARTRAO	7232	5085442972.8	23.1	2668263150.4	14.2	-2768697330.4	11.7
HATCREEK	7218	-2523969696.5	2.9	-4123506322.3	5.3	4147752614.2	5.5
HAYSTACK	7205	1492405048.2	.9	-4457266525.6	2.1	4296881644.5	2.2
HOBART26	7242	-3950235937.9	37.9	2522347561.0	28.0	-4311563185.8	32.8
HOHENFRG	7600	3778215240.7	6.0	698644460.1	2.4	5074053438.8	8.1
JPL MV1	7263	-2493305678.1	11.3	-4655197764.8	20.9	3565519174.8	16.0
KASHIM34	1857	-3997648969.3	6.8	3276690820.4	4.6	3724279012.9	9.8
KASHIMA	1856	-3997891988.6	5.9	3276581327.0	3.8	3724118406.0	9.2
KAUAI	1311	-5543845810.6	3.4	-2054564462.3	3.7	2387813581.7	4.9
KODIAK	7278	-3026939869.3	23.7	-1575911743.7	15.6	5370362525.8	41.1
KWALJAL26	4968	-6143536438.3	21.2	1363996918.2	7.6	1034707218.0	12.0
LA-VLBA	7611	-1449752093.0	.7	-4975298553.0	2.1	3709123948.4	2.0
LEONRDOK	7292	-522231370.8	3.7	-5145676860.6	19.1	3720152315.1	12.7
MAMMOTHL	7259	-2448246548.1	25.0	-4426738305.4	44.2	3875435928.8	36.8
MARCUS	7310	-5227446893.1	15.4	2551378925.3	9.0	2607604613.4	14.2
MARPOINT	7217	1106629596.1	3.3	-4882907193.3	11.3	3938086874.5	9.3
MATERA	7243	4641939299.4	36.3	1393002691.8	13.5	4133325385.8	33.7
MCD 7850	7850	-1330007952.8	2.8	-5328391553.9	10.5	3236502723.8	6.6
MEDICINA	7230	4461370389.7	9.5	919596471.0	4.3	4449559007.6	10.7
METSHOVI	7601	2890653171.1	15.6	1310295070.3	7.1	5513958589.6	23.5
MILESMON	7038	-1204438759.4	9.2	-4239211082.3	30.1	4596266054.9	30.1
MIYAZAKI	7312	-3582767494.6	109.2	4052034124.7	71.7	3369020693.5	112.3
MIZUSGSI	7314	-3862411569.0	43.1	3105015114.2	17.4	4001945020.5	23.9
MOJ 7288	7288	-2356493888.7	5.9	-4646607654.3	11.3	3668426640.8	8.9
MOJAVE12	7222	-2356170767.7	1.2	-4646755857.6	3.2	3668470623.5	3.6
MON PEAK	7274	-2386289079.5	6.8	-4802346725.3	14.2	3444883806.8	10.6
NOBEY 6M	7244	-3871167952.5	9.8	3428274061.1	8.7	3723697779.2	13.1
NOME	7279	-2658150113.1	18.6	-693821864.9	8.5	5737236659.2	32.9
NOTO	7547	4934563517.2	21.6	1321200919.3	8.9	3806484236.0	19.8

(continued)

VLBI Site positions at January 1.5, 1982							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
NRAO 140	7204	882880179.4	1.2	-4924482318.2	4.3	3944130585.7	3.8
NRAO85 3	7214	882325869.5	3.5	-4925137981.9	10.4	3943397565.4	8.4
OCOTILLO	7270	-2335600830.9	18.0	-4832244277.8	35.3	3434392426.9	25.8
ONSALA60	7213	3370606405.8	3.7	711917202.0	2.4	5349830568.4	5.7
OVR 7853	7853	-2410421000.3	5.1	-4477800378.0	9.7	3838690337.7	8.3
OVRO 130	7207	-2409600519.9	1.5	-4478349511.3	4.0	3838603230.5	4.3
PBLOSSOM	7254	-2464070701.4	15.7	-4649425599.4	29.3	3593905713.7	22.3
PENTICTN	7283	-2058840148.3	20.7	-3621286367.9	35.1	4814420764.4	44.4
PIETOWN	7234	-1640953438.9	2.9	-5014816000.5	6.4	3575411930.8	5.6
PINFLATS	7256	-2369635624.4	12.3	-4761325072.8	24.5	3511115980.3	18.5
PLATTVIL	7258	-1240707903.2	5.3	-4720454336.0	16.5	4094481641.8	13.9
PRESIDIO	7252	-2707704637.9	15.1	-4257609565.3	23.9	3888374201.0	21.6
PRESIDIO (1)	7252	-2707704623.0	23.5	-4257609548.7	37.0	3888374171.4	32.9
PT REYES	7251	-2732332818.0	14.2	-4217635072.2	21.6	3914490881.1	20.5
PVERDES	7268	-2525452481.3	26.0	-4670035839.1	46.7	3522886594.8	35.0
QUINCY	7221	-2517230652.7	9.2	-4198595185.1	15.6	4076531295.0	14.7
RICHMOND	7219	961258257.6	1.0	-5674090042.1	1.8	2740533687.8	1.3
ROBED32	1561	4849245473.8	42.3	-360278504.6	9.0	4114884313.1	34.8
SANPAULA	7255	-2554476357.3	24.5	-4608627545.9	44.2	3582138129.4	33.4
SANTIA12	1404	1769693014.4	8.6	-5044504384.8	16.1	-3468435199.0	9.2
SEATTLE1	7229	-2295347729.5	65.7	-3638029434.0	479.8	4693408713.8	477.2
SESHAN25	7227	-2831686286.2	16.3	4675733891.6	19.9	3275327884.3	19.6
SEST	7239	1838237925.8	9.4	-5258699152.9	17.3	-3100588988.3	8.7
SHANGHAI	7226	-2847697645.0	109.7	4659872800.8	97.3	3283958820.1	88.0
SINTOTU	7315	-3642141532.4	84.3	2861496667.7	80.8	4370361822.3	61.1
SNDPOINT	7280	-3425461598.0	33.8	-1214669078.4	20.0	5223858307.2	51.0
SOURDOGH	7281	-2419993182.6	17.2	-1664228698.7	13.2	5643538267.4	39.9
SOURDOGH (2)	7281	-2419993172.5	28.6	-1664228726.4	21.5	5643538326.0	66.4
TITIJIMA	7316	-4489356609.9	112.5	3482989481.9	124.5	2887931178.7	71.8
TROMSONO	7602	2102904466.4	6.4	721602304.1	4.7	5958201210.6	14.2
TRYSILNO	7607	2988029524.3	5.2	655956823.8	2.4	5578668937.3	9.9
TSUKUBA	7311	-3957172614.5	41.3	3310237982.5	36.2	3737709078.1	41.5
USUDA64	7246	-3855355003.0	33.1	3427427753.0	29.2	3740971418.4	38.7
VERNAL	7290	-1631473067.5	16.2	-4589128889.6	40.3	4106759875.1	34.4
VICTORIA	7289	-2341309832.9	10.4	-3539083826.3	15.7	4745768380.2	20.1
VNDNBERG	7223	-2678094435.6	2.9	-4525450997.2	5.3	3597409968.1	5.2
WESTFORD	7209 ref	1492206906.5	.0	-4458130519.4	.0	4296015413.7	.0
WETTZELL	7224	4075540280.3	4.0	931734939.7	2.4	4801629194.5	5.7
WHTHORSE	7284	-2215213248.9	41.1	-2209261505.9	37.9	5540292420.9	91.0
WHTHORSE (2)	7284	-2215213362.7	60.8	-2209261607.3	57.3	5540292606.4	137.6
YAKATAGA	7277	-2529743929.3	22.0	-1942091274.6	18.2	5505028006.5	46.1
YAKATAGA (2)	7277	-2529743946.2	32.0	-1942091229.1	26.1	5505027867.5	67.0
YELLOWKN	7285	-1224124224.2	5.4	-2689530606.9	11.5	563355289.3	23.9
YLOW7296	7296	-1224399148.5	1.9	-2689273190.2	3.1	5633620255.1	5.0
YUMA	7894	-2196777712.8	11.7	-4887337029.1	25.9	3448425248.8	18.6

Notes:

- (1) Positions after the October 1989 Loma Prieta earthquake extrapolated to the site reference epoch.
 - (2) Positions after the winter 1987-88 Gulf of Alaska earthquakes extrapolated to the site reference epoch.
- ref Reference station which defines the coordinate system origin.

Table 5.5

VLBI Site positions at January 1.5, 1983							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
ALGOPARK	7282	918035054.0	1.9	-4346132242.0	6.9	4561971059.4	6.6
AUSTINTX	7271	-737793619.7	3.7	-5459892241.2	16.1	3202990440.9	9.5
BERMUDA	7294	2307209686.3	8.3	-4874215871.0	27.9	3394317793.7	19.1
BLKBUTTE	7269	-2306306754.8	15.5	-4787914402.4	31.5	3515736428.2	22.7
BLOOMIND	7291	302384663.4	21.7	-4941699041.4	47.5	4007908420.5	37.1
BREST	7604	4228877398.7	11.1	-333104497.3	2.5	4747180811.1	12.0
CARNUSTY	7603	3526416679.8	15.4	-171421390.4	3.9	5294098685.4	20.9
CARROLGA	7228	453520817.0	9.2	-5300506767.4	34.2	3507207366.1	20.6
CHLBOLTN	7215	4008310369.1	7.5	-100651062.0	3.7	4943794607.2	9.8
DEADMNL	7267	-2336819459.7	50.1	-4732586946.4	96.9	3570329998.5	67.9
DSS15	7231	-2353538554.7	22.1	-4641649498.0	45.5	3676670021.3	46.1
DSS45	1642	-4460934692.2	29.2	2682765835.6	20.6	-3674381876.3	17.8
DSS65	1665	4849336947.2	22.1	-360489136.1	4.7	4114748600.8	23.5
EFLSBERG	7203	4033947784.5	4.9	486990202.0	2.9	4900430604.2	7.2
ELY	7286	-2077236094.3	12.1	-4486712684.2	26.3	4018753750.0	21.8
FD-VLBA	7613	-1324008904.3	5.3	-5332181911.6	11.5	3231962458.0	8.3
FLAGSTAF	7261	-1923992471.7	10.2	-4850854494.9	24.7	3658589298.5	18.5
FORT ORD	7266	-2697026497.9	12.7	-4354393451.3	20.5	3788077456.8	17.8
FORTORDS	7241	-2699839989.4	18.4	-4359127224.8	29.6	3781050804.9	25.3
FORTORDS	7241 (1)	-2699839965.5	20.9	-4359127201.9	33.5	3781050842.9	28.7
FTD 7900	7900	-1324227757.7	3.6	-5332063032.9	12.7	3232023035.6	7.7
GILCREEK	7225	-2281546878.2	1.9	-1453645009.0	2.5	5756993227.8	4.0
GOLDVENU	1513	-2351128921.7	2.5	-4655477044.4	4.8	3660956911.4	4.7
GORF7102	7102	1130686784.0	13.6	-4831353002.4	48.6	3994110798.2	39.7
GRASSE	7605	4581697981.6	13.0	556125425.0	3.7	4389351256.9	13.5
HALEAKAL	7120	-5465998277.7	14.2	-2404408782.0	7.6	2242228245.2	7.8
HARTRAO	7232	5085442970.8	20.5	2668263173.8	12.5	-2768697311.5	10.3
HATCREEK	7218	-2523969712.8	2.5	-4123506323.0	4.6	4147752603.6	4.9
HAYSTACK	7205	1492405031.3	.8	-4457266527.0	1.8	4296881649.0	2.0
HOBART26	7242	-3950235977.6	33.7	2522347570.4	24.7	-4311563144.0	29.0
HOHENFRG	7600	3778215225.7	6.0	698644477.8	2.4	5074053447.6	8.1
JPL MV1	7263	-2493305708.6	9.2	-4655197733.2	17.0	3565519194.8	13.0
KASHIM34	1857	-3997648982.8	6.0	3276690820.1	4.0	3724278998.8	8.4
KASHIMA	1856	-3997892002.1	5.0	3276581326.7	3.2	3724118391.8	7.7
KAUAI	1311	-5543845819.9	3.2	-2054564400.7	3.2	2387813613.0	4.5
KODIAK	7278	-3026939889.8	20.3	-1575911744.7	13.4	5370362514.0	35.2
KWAJAL26	4968	-6143536418.8	17.1	1363996983.9	6.1	1034707247.0	10.0
LA-VLBA	7611	-1449752107.8	.7	-4975298553.8	2.1	3709123941.6	2.0
LEONRDOK	7292	-522231385.6	3.7	-5145676861.5	19.1	3720152311.8	12.7
MAMMOTHL	7259	-2448246563.4	18.8	-4426738306.1	33.3	3875435918.5	27.7
MARCUS	7310	-5227446853.3	15.4	2551378983.9	9.0	2607604635.8	14.2
MARPOINT	7217	1106629580.5	2.9	-4882907194.5	9.7	3938086877.4	8.0
MATERA	7243	4641939284.4	32.5	1393002711.3	12.0	4133325396.0	30.2
MCD 7850	7850	-1330007965.9	2.8	-5328391554.6	10.5	3236502717.3	6.6
MEDICINA	7230	4461370375.6	8.3	919596490.2	3.7	4449559017.9	9.4
METSHOVI	7601	2890653153.0	15.6	1310295085.5	7.1	5513958595.5	23.5
MILESMON	7038	-1204438777.4	9.2	-4239211083.3	30.1	4596266049.2	30.1
MIYAZAKI	7312	-3582767516.3	109.2	4052034116.4	71.7	3369020680.4	112.3
MIZUSGSI	7314	-3862411583.6	43.1	3105015113.8	17.4	4001945006.8	23.9
MOJ 7288	7288	-2356493903.2	5.8	-4646607654.9	11.2	3668426630.7	8.8
MOJAVE12	7222	-2356170782.2	1.1	-4646755858.1	2.8	3668470613.4	3.3
MON PEAK	7274	-2386289112.1	5.7	-4802346694.9	11.8	3444883826.4	8.9
NOBEY 6M	7244	-3871167966.0	9.8	3428274060.8	8.7	3723697765.5	13.1
NOME	7279	-2658150134.8	16.0	-693821866.0	7.4	5737236649.0	28.0
NOTO	7547	4934563503.4	19.0	1321200939.4	7.8	3806484247.0	17.5

(continued)

VLBI Site positions at January 1.5, 1983							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
NRAO 140	7204	882880163.8	1.1	-4924482319.4	3.9	3944130587.7	3.4
NRAO85 3	7214	882325853.9	3.1	-4925137983.1	9.3	3943397567.4	7.5
OCOTILLO	7270	-2335600863.9	18.0	-4832244248.0	35.3	3434392446.4	25.8
ONSALA60	7213	3370606390.1	3.1	711917218.6	2.0	5349830576.1	5.0
OVR 7853	7853	-2410421015.5	5.0	-4477800378.6	9.5	3838690327.5	8.0
OVRO 130	7207	-2409600535.1	1.3	-4478349512.0	3.4	3838603220.3	3.8
PBLOSSOM	7254	-2464070715.6	12.6	-4649425599.9	23.4	3593905703.2	17.9
PENTICTN	7283	-2058840167.0	18.0	-3621286368.8	30.5	4814420755.7	38.5
PIETOWN	7234	-1640953453.1	2.6	-5014816001.2	5.6	3575411923.3	5.0
PINFLATS	7256	-2369635656.2	10.2	-4761325042.6	20.3	3511115999.9	15.4
PLATTVIL	7258	-1240707919.4	4.4	-4720454336.9	14.0	4094481635.9	11.7
PRESIDIO	7252	-2707704653.3	12.6	-4257609565.9	19.9	3888374189.7	18.0
PRESIDIO	7252 (1)	-2707704638.3	21.0	-4257609549.3	33.0	3888374160.1	29.3
PT REYES	7251	-2732332842.2	12.2	-4217635037.5	18.6	3914490901.6	17.6
PVERDES	7268	-2525452512.2	22.4	-4670035807.3	40.1	3522886614.9	30.1
QUINCY	7221	-2517230668.7	7.8	-4198595185.8	13.2	4076531284.4	12.5
RICHMOND	7219	961258246.3	1.0	-5674090043.0	1.8	2740533689.9	1.2
ROBLED32	1561	4849245464.7	42.0	-360278484.4	8.8	4114884325.6	34.5
SANPAULA	7255	-2554476387.2	21.0	-4608627513.6	37.9	3582138149.6	28.6
SANTIA12	1404	1769693015.2	8.6	-5044504390.2	16.1	-3468435190.7	9.2
SEATTLE1	7229	-2295347747.7	57.8	-3638029434.9	424.0	4693408704.2	421.6
SESHAN25	7227	-2831686309.8	14.3	4675733885.7	17.5	3275327872.4	17.0
SEST	7239	1838237925.9	9.4	-5258699157.9	17.3	-3100588979.7	8.7
SHANGHAI	7226	-2847697668.5	109.6	4659872794.8	97.0	3283958808.2	87.7
SINTOTU	7315	-3642141548.4	84.3	2861496667.2	80.8	4370361809.4	61.1
SNDPOINT	7280	-3425461617.8	29.2	-1214669079.2	17.4	5223858294.0	44.1
SOURDOGH	7281	-2419993204.1	13.4	-1664228699.8	10.3	5643538257.9	31.1
SOURDOGH	7281 (2)	-2419993194.0	24.7	-1664228727.5	18.6	5643538316.4	57.4
TITIJIMA	7316	-4489356595.9	112.5	3482989498.9	124.5	2887931180.1	71.8
TROMSONO	7602	2102904449.1	6.4	721602317.2	4.7	5958201215.1	14.2
TRYSILNO	7607	2988029508.2	5.2	655956839.4	2.4	5578668944.0	9.9
TSUKUBA	7311	-3957172628.0	34.3	3310237982.2	30.0	3737709064.1	34.4
USUDA64	7246	-3855355023.7	33.1	3427427744.2	29.2	3740971405.3	38.7
VERNAL	7290	-1631473083.7	13.9	-4589128890.5	34.6	4106759867.8	29.5
VICTORIA	7289	-2341309851.3	10.4	-3539083827.1	15.7	4745768370.5	20.1
VNDNBERG	7223	-2678094464.6	2.5	-4525450963.6	4.6	3597409988.8	4.6
WESTFORD	7209 ref	1492206889.6	.0	-4458130520.8	.0	4296015418.2	.0
WETTZELL	7224	4075540265.2	3.4	931734958.1	2.1	4801629203.7	5.0
WHTHORSE	7284	-2215213270.1	33.1	-2209261507.0	30.2	5540292412.0	72.4
WHTHORSE	7284 (2)	-2215213383.9	52.3	-2209261608.4	49.2	5540292597.5	118.3
YAKATAGA	7277	-2529743950.3	17.8	-1942091275.7	14.8	5505027996.5	37.5
YAKATAGA	7277 (2)	-2529743967.2	27.7	-1942091230.1	22.6	5505027857.5	58.1
YELLOWKN	7285	-1224124245.8	5.4	-2689530608.2	11.5	5633555284.0	23.9
YLOW7296	7296	-1224399170.1	1.9	-2689273191.5	3.1	5633620249.8	5.0
YUMA	7894	-2196777726.6	9.6	-4887337029.6	21.2	3448425239.2	15.3

Notes:

- (1) Positions after the October 1989 Loma Prieta earthquake extrapolated to the site reference epoch.
 - (2) Positions after the winter 1987-88 Gulf of Alaska earthquakes extrapolated to the site reference epoch.
- ref Reference station which defines the coordinate system origin.

Table 5.6

VLBI Site positions at January 1.5, 1984							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
ALGOPARK	7282	918035036.1	1.6	-4346132243.4	6.0	4561971061.7	5.8
AUSTINTX	7271	-737793632.7	3.7	-5459892241.9	16.1	3202990436.7	9.5
BERMUDA	7294	2307209672.8	8.3	-4874215872.3	27.9	3394317801.1	19.1
BLKBUTTE	7269	-2306306768.8	12.1	-4787914402.9	24.6	3515736418.3	17.8
BLOOMIND	7291	302384647.5	21.7	-4941699042.5	47.5	4007908420.3	37.1
BREST	7604	4228877388.0	11.1	-333104478.5	2.5	4747180822.0	12.0
CARNUSTY	7603	3526416667.1	15.4	-171421373.4	3.9	5294098694.4	20.9
CARROLGA	7228	453520802.9	9.2	-5300506768.4	34.2	3507207366.4	20.6
CHLBOLTN	7215	4008310357.0	7.5	-100651043.7	3.7	4943794617.3	9.8
DEADMANL	7267	-2336819473.8	39.5	-4732586946.9	76.6	3570329988.5	53.6
DSS15	7231	-2353538569.3	18.3	-4641649498.6	37.6	3676670011.2	37.8
DSS45	1642	-4460934729.5	25.5	2682765836.4	17.9	-3674381830.4	15.4
DSS65	1665	4849336938.1	18.6	-360489115.9	4.0	4114748613.3	19.9
EFLSBERG	7203	4033947780.7	4.4	486990220.4	2.5	4900430613.8	6.4
ELY	7286	-2077236110.1	10.0	-4486712685.0	21.8	4018753741.0	18.0
FD-VLBA	7613	-1324008917.3	5.3	-5332181912.3	11.5	3231962451.6	8.3
FLAGSTAF	7261	-1923992486.3	8.4	-4850854495.6	20.3	3658589290.0	15.1
FORT ORD	7266	-2697026524.1	10.1	-4354393417.2	16.4	3788077477.4	14.2
FORTORDS	7241	-2699840015.7	15.8	-4359127190.7	25.3	3781050825.4	21.7
FORTORDS	7241 (1)	-2699839991.8	18.1	-4359127167.8	29.0	3781050863.5	24.9
FTD 7900	7900	-1324227770.7	3.6	-5332063033.5	12.7	3232023029.2	7.7
GILCREEK	7225	-2281546900.1	1.7	-1453645010.2	2.2	5756993218.9	3.5
GOLDVENU	1513	-2351128936.2	2.2	-4655477044.9	4.1	3660956901.3	4.2
GORF7102	7102	1130686768.2	12.0	-4831353003.7	42.6	3994110801.2	34.8
GRASSE	7605	4581697968.8	13.0	556125444.6	3.7	4389351267.8	13.5
HALEAKAL	7120	-5465998291.4	14.2	-2404408721.5	7.4	2242228276.7	7.6
HARTRAO	7232	5085442968.8	17.9	2668263197.2	10.9	-2768697292.6	9.1
HATCREEK	7218	-2523969729.1	2.1	-4123506323.7	3.9	4147752593.1	4.3
HAYSTACK	7205	1492405014.4	.7	-4457266528.4	1.6	4296881653.4	1.7
HOBART26	7242	-3950236017.2	29.5	2522347579.8	21.5	-4311563102.2	25.2
HOHENFRG	7600	3778215210.7	6.0	698644495.4	2.4	5074053456.3	8.1
JPL MV1	7263	-2493305739.0	7.2	-4655197701.6	13.3	3565519214.8	10.3
KASHIM34	1857	-3997648996.2	5.2	3276690819.7	3.6	3724278984.6	7.2
KASHIMA	1856	-3997892015.5	4.2	3276581326.3	2.8	3724118377.6	6.5
KAUAI	1311	-5543845829.2	3.0	-2054564339.1	2.8	2387813644.3	4.3
KODIAK	7278	-3026939910.2	16.9	-1575911745.6	11.3	5370362502.2	29.4
KWAJAL26	4968	-6143536399.4	13.1	1363997049.5	4.8	1034707275.9	8.3
LA-VLBA	7611	-1449752122.5	.7	-4975298554.5	2.1	3709123934.9	2.0
LEONRDOK	7292	-522231400.4	3.7	-5145676862.4	19.1	3720152308.4	12.7
MAMMOTHL	7259	-2448246578.7	13.5	-4426738306.7	23.9	3875435908.1	19.9
MARCUS	7310	-5227446813.5	15.4	2551379042.5	9.0	2607604658.2	14.2
MARPOINT	7217	1106629564.9	2.4	-4882907195.7	8.2	3938086880.3	6.7
MATERA	7243	4641939269.5	28.6	1393002730.9	10.6	4133325406.2	26.6
MCD 7850	7850	-1330007978.9	2.8	-5328391555.2	10.5	3236502710.9	6.6
MEDICINA	7230	4461370361.4	7.1	919596509.5	3.2	4449559028.1	8.2
METSHOVI	7601	2890653134.9	15.6	1310295100.7	7.1	5513958601.4	23.5
MILESMON	7038	-1204438795.3	9.2	-4239211084.3	30.1	4596266043.6	30.1
MIYAZAKI	7312	-3582767538.1	109.2	4052034108.0	71.7	3369020667.2	112.3
MIZUSGSI	7314	-3862411598.1	43.1	3105015113.3	17.4	4001944993.1	23.9
MOJ 7288	7288	-2356493917.7	5.8	-4646607655.4	11.1	3668426620.6	8.7
MOJAVE12	7222	-2356170796.8	.9	-4646755858.7	2.4	3668470603.4	3.0
MON PEAK	7274	-2386289144.7	4.6	-4802346664.6	9.5	3444883846.1	7.3
NOBEY 6M	7244	-3871167979.4	9.8	3428274060.4	8.7	3723697751.9	13.1
NOME	7279	-2658150156.4	13.5	-693821867.0	6.3	5737236638.8	23.4
NOTO	7547	4934563489.5	16.4	1321200959.6	6.8	3806484258.0	15.2

(continued)

VLBI Site positions at January 1.5, 1984							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
NRAO 140	7204	882880148.1	1.0	-4924482320.6	3.5	3944130589.7	3.0
NRAO85 3	7214	882325838.2	2.7	-4925137984.3	8.1	3943397569.5	6.5
OCOTILLO	7270	-2335600896.9	18.0	-4832244218.2	35.3	3434392465.9	25.8
ONSALA60	7213	3370606374.4	2.6	711917235.2	1.7	5349830583.8	4.3
OVR 7853	7853	-2410421030.6	5.0	-4477800379.3	9.3	3838690317.2	7.8
OVRO 130	7207	-2409600550.2	1.1	-4478349512.6	2.8	3838603210.0	3.3
PBLOSSOM	7254	-2464070729.9	9.6	-4649425600.5	17.8	3593905692.8	13.7
PENTICTN	7283	-2058840185.7	15.3	-3621286369.7	26.1	4814420747.0	32.8
PIETOWN	7234	-1640953467.4	2.2	-5014816001.9	4.8	3575411915.8	4.4
PINFLATS	7256	-2369635688.1	8.1	-4761325012.3	16.2	3511116019.4	12.4
PLATTVIL	7258	-1240707935.5	3.6	-4720454337.8	11.5	4094481629.9	9.6
PRESIDIO	7252	-2707704668.6	10.1	-4257609566.5	16.0	3888374178.4	14.6
PRESIDIO	7252 (1)	-2707704653.7	18.4	-4257609549.9	29.0	3888374148.8	25.8
PT REYES	7251	-2732332866.3	10.3	-4217635002.8	15.6	3914490922.1	14.9
FVERDES	7268	-2525452543.0	18.7	-4670035775.4	33.7	3522886635.1	25.2
QUINCY	7221	-2517230684.7	6.4	-4198595186.4	10.9	4076531273.8	10.4
RICHMOND	7219	961258235.1	1.0	-5674090043.9	1.7	2740533692.0	1.2
ROBLED32	1561	4849245455.6	42.1	-360278464.2	8.8	4114884338.1	34.5
SANPAULA	7255	-2554476417.1	17.5	-4608627481.3	31.7	3582138169.8	23.9
SANTIA12	1404	1769693016.1	8.6	-5044504395.6	16.1	-3468435182.4	9.2
SEATTLE1	7229	-2295347766.0	50.0	-3638029435.8	368.2	4693408694.6	366.0
SESHAN25	7227	-2831686333.3	12.4	4675733879.7	15.1	3275327860.5	14.6
SEST	7239	1838237926.0	9.4	-5258699163.0	17.3	-3100588971.0	8.7
SHANGHAI	7226	-2847697692.1	109.4	4659872788.8	96.9	3283958796.2	87.4
SINTOTU	7315	-3642141564.3	84.3	2861496666.6	80.8	4370361796.5	61.1
SNDPOINT	7280	-3425461637.6	24.7	-1214669080.0	14.7	5223858280.8	37.3
SOURDOGH	7281	-2419993225.6	9.8	-1664228700.9	7.7	5643538248.3	22.7
SOURDOGH	7281 (2)	-2419993215.5	20.8	-1664228728.6	15.7	5643538306.9	48.4
TITIJIMA	7316	-4489356581.8	112.5	3482989515.9	124.5	2887931181.4	71.8
TROMSONO	7602	2102904431.8	6.4	721602330.3	4.7	5958201219.6	14.2
TRYSILNO	7607	2988029492.1	5.2	655956854.9	2.4	5578668950.9	9.9
TSUKUBA	7311	-3957172641.5	27.3	3310237981.8	23.9	3737709050.1	27.5
USUDA64	7246	-3855355044.3	33.1	3427427735.3	29.2	3740971392.1	38.7
VERNAL	7290	-1631473099.9	11.7	-4589128891.3	29.0	4106759860.4	24.7
VICTORIA	7289	-2341309869.7	10.4	-3539083828.0	15.7	4745768360.7	20.1
VNDNBERG	7223	-2678094493.6	2.1	-4525450930.0	3.8	3597410009.6	4.0
WESTFORD	7209 ref	1492206872.7	.0	-4458130522.2	.0	4296015422.6	.0
WETTZEIL	7224	4075540250.1	2.8	931734976.5	1.7	4801629212.9	4.4
WETHORSE	7284	-2215213291.3	25.6	-2209261508.2	22.6	5540292403.1	54.4
WETHORSE	7284 (2)	-2215213405.1	43.7	-2209261609.5	41.2	5540292588.6	99.0
YAKATAGA	7277	-2529743971.4	13.8	-1942091276.7	11.6	5505027986.5	29.1
YAKATAGA	7277 (2)	-2529743988.2	23.5	-1942091231.2	19.2	5505027847.5	49.2
YELLOWKN	7285	-1224124267.4	5.4	-2689530609.5	11.5	563355278.7	23.9
YLOW7296	7296	-1224399191.7	1.9	-2689273192.8	3.1	5633620244.5	5.0
YUMA	7894	-2196777740.3	7.5	-4887337030.2	16.6	3448425229.7	12.0

Notes:

- (1) Positions after the October 1989 Loma Prieta earthquake extrapolated to the site reference epoch.
 - (2) Positions after the winter 1987-88 Gulf of Alaska earthquakes extrapolated to the site reference epoch.
- ref Reference station which defines the coordinate system origin.

Table 5.7

VLBI Site positions at January 1.5, 1985							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
ALGOPARK	7282	918035018.2	1.4	-4346132244.7	5.1	4561971064.0	4.9
AUSTINTX	7271	-737793645.6	3.7	-5459892242.6	16.1	3202990432.5	9.5
BERMUDA	7294	2307209659.2	8.3	-4874215873.6	27.9	3394317808.5	19.1
BLKBUTTE	7269	-2306306782.9	8.9	-4787914403.5	18.0	3515736408.3	13.1
BLOOMIND	7291	302384631.6	21.7	-4941699043.6	47.5	4007908420.1	37.1
BREST	7604	4228877377.2	11.1	-333104459.6	2.5	4747180833.0	12.0
CARNUSTY	7603	3526416654.4	15.4	-171421356.3	3.9	5294098703.5	20.9
CARROLGA	7228	453520788.8	9.2	-5300506769.4	34.2	3507207366.7	20.6
CHLBOLTN	7215	4008310345.0	7.5	-100651025.4	3.7	4943794627.4	9.8
DEADMANL	7267	-2336819488.1	29.1	-4732586947.5	56.5	3570329978.4	39.6
DSS15	7231	-2353538583.9	14.4	-4641649499.2	29.6	3676670001.1	29.5
DSS45	1642	-4460934766.9	21.9	2682765837.3	15.2	-3674381784.4	13.2
DSS65	1665	4849336929.0	15.1	-360489095.6	3.3	4114748625.8	16.2
EFLSBERG	7203	4033947766.8	3.9	486990238.7	2.2	4900430623.4	5.8
ELY	7286	-2077236126.0	8.0	-4486712685.7	17.3	4018753732.0	14.3
FD-VLBA	7613	-1324008930.4	5.3	-5332181912.9	11.5	3231962445.2	8.3
FLAGSTAF	7261	-1923992500.9	6.6	-4850854496.2	16.2	3658589281.4	12.0
FORT ORD	7266	-2697026550.4	7.7	-4354393383.0	12.5	3788077498.0	10.9
FORTORDS	7241	-2699840042.1	13.3	-4359127156.4	21.2	3781050846.1	18.1
FORTORDS	7241 (1)	-2699840018.1	15.3	-4359127133.6	24.5	3781050884.1	21.0
FTD 7900	7900	-1324227783.8	3.6	-5332063034.1	12.7	3232023022.8	7.7
GILCREEK	7225	-2281546922.0	1.4	-1453645011.3	1.9	5756993209.9	3.1
GOLDVENU	1513	-2351128950.7	1.9	-4655477045.5	3.5	3660956891.2	3.7
GORF7102	7102	1130686752.3	10.3	-4831353004.9	36.6	3994110804.1	29.9
GRASSE	7605	4581697956.0	13.0	556125464.2	3.7	4389351278.8	13.5
HALEAKAL	7120	-5465998305.1	14.1	-2404408660.8	7.3	2242228308.3	7.5
HARTRAO	7232	5085442966.9	15.4	2668263220.7	9.5	-2768697273.6	8.0
HATCREEK	7218	-2523969745.4	1.7	-4123506324.4	3.2	4147752582.4	3.7
HAYSTACK	7205	1492404997.5	.6	-4457266529.7	1.3	4296881657.8	1.4
HOBART26	7242	-3950236057.0	25.3	2522347589.2	18.3	-4311563060.2	21.6
HOENFRG	7600	3778215195.6	6.0	698644513.1	2.4	5074053465.0	8.1
JPL MV1	7263	-2493305769.6	5.4	-4655197669.9	10.0	3565519234.8	7.9
KASHIM34	1857	-3997649009.7	4.5	3278690819.4	3.1	3724278970.4	6.2
KASHIMA	1856	-3997892029.0	3.5	327581326.0	2.3	3724118363.4	5.6
KAUAI	1311	-5543845838.6	2.9	-2054564277.4	2.4	2387813675.7	4.2
KODIAK	7278	-3026939930.7	13.6	-1575911746.5	9.1	5370362490.4	23.7
KWAJAL26	4968	-6143536379.8	9.7	1363997115.4	3.8	1034707304.9	6.8
LA-VLBA	7611	-1449752137.3	.7	-4975298555.2	2.1	3709123928.1	2.0
LEONRDOK	7292	-522231415.3	3.7	-5145676863.3	19.1	3720152305.1	12.7
MAMMOTHL	7259	-2448246594.0	10.4	-4426738307.3	18.6	3875435897.7	15.6
MARCUS	7310	-5227446773.6	15.4	2551379101.3	9.0	2607604680.7	14.2
MARPOINT	7217	1106629549.3	2.0	-4882907197.0	6.7	3938086883.2	5.5
MATERA	7243	4641939254.5	24.8	1393002750.5	9.2	4133325416.4	23.1
MCD 7850	7850	-1330007992.0	2.8	-5328391555.8	10.5	3236502704.5	6.6
MEDICINA	7230	4461370347.2	6.0	919596528.8	2.7	4449559038.3	7.1
METSHOVI	7601	2890653116.7	15.6	1310295116.0	7.1	5513958607.3	23.5
MILESMON	7038	-1204438813.4	9.2	-4239211085.4	30.1	4596266037.9	30.1
MIYAZAKI	7312	-3582767559.9	109.2	4052034099.7	71.7	3369020654.1	112.3
MIZUSGSI	7314	-3862411612.7	43.1	3105015112.9	17.4	4001944979.4	23.9
MOJ 7288	7288	-2356493932.3	5.8	-4646607656.0	11.0	3668426610.5	8.6
MOJAVE12	7222	-2356170811.4	.8	-4646755859.3	2.0	3668470593.2	2.7
MON PEAK	7274	-2386289177.4	3.6	-4802346634.2	7.4	3444883865.8	5.9
NOBEY 6M	7244	-3871167992.9	9.8	3428274060.1	8.7	3723697738.2	13.1
NOME	7279	-2658150178.2	11.1	-693821868.1	5.2	5737236628.6	19.2
NOTO	7547	4934563475.6	13.9	1321200979.8	5.7	3806484269.0	12.9

(continued)

VLBI Site positions at January 1.5, 1985							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
NRAO 140	7204	882880132.4	.9	-4924482321.8	3.2	3944130591.7	2.8
NRAO85 3	7214	882325822.5	2.3	-4925137985.4	7.0	3943397571.5	5.6
OCOTILLO	7270	-2335600929.9	18.0	-4832244188.3	35.3	3434392485.4	25.8
ONSALA60	7213	3370606358.6	2.2	711917251.8	1.5	5349830591.5	3.8
OVR 7853	7853	-2410421045.8	5.0	-4477800379.9	9.2	3838690307.0	7.7
OVRO 130	7207	-2409600565.4	1.0	-4478349513.2	2.4	3838603199.8	3.0
PBLOSSOM	7254	-2464070744.2	7.0	-4649425601.0	13.0	3593905682.2	10.1
PENTICTN	7283	-2058840204.4	12.8	-3621286370.7	21.9	4814420738.3	27.5
PIETOWN	7234	-1640953481.7	1.9	-5014816002.5	4.1	3575411908.3	3.8
PINFLATS	7256	-2369635720.0	6.2	-4761324982.0	12.4	3511116039.0	9.5
PLATTVIL	7258	-1240707951.8	2.9	-4720454338.7	9.1	4094481624.0	7.7
PRESIDIO	7252	-2707704683.9	7.7	-4257609567.1	12.2	3888374167.0	11.3
PRESIDIO	7252 (1)	-2707704669.0	15.9	-4257609550.5	25.0	3888374137.5	22.3
PT REYES	7251	-2732332890.5	8.4	-4217634968.1	12.8	3914490942.7	12.1
PVERDES	7268	-2525452573.9	15.2	-4670035743.4	27.3	3522886655.3	20.5
QUINCY	7221	-2517230700.8	5.1	-4198595187.1	8.7	4076531263.2	8.4
RICHMOND	7219	961258223.8	1.0	-5674090044.7	1.7	2740533694.1	1.2
ROBED32	1561	4849245446.5	42.4	-360278443.9	8.7	4114884350.6	35.0
SANPAULA	7255	-2554476447.1	14.1	-4608627449.0	25.6	3582138190.1	19.4
SANTIA12	1404	1769693017.0	8.6	-5044504401.0	16.1	-3468435174.1	9.2
SEATTLE1	7229	-2295347784.3	42.2	-3638029436.6	312.2	4693408685.0	310.3
SESHAN25	7227	-2831686357.0	10.5	4675733873.7	12.7	3275327848.6	12.4
SEST	7239	1838237926.1	9.4	-5258699168.0	17.3	-3100588962.4	8.7
SHANGHAI	7226	-2847697715.7	109.3	4659872782.8	96.7	3283958784.3	87.3
SINTOTU	7315	-3642141580.3	84.3	2861496666.0	80.8	4370361783.5	61.1
SNDFPOINT	7280	-3425461657.5	20.1	-1214669080.9	12.2	5223858267.6	30.6
SOURDOGH	7281	-2419993247.1	6.5	-1664228702.0	5.3	5643538238.8	15.2
SOURDOGH	7281 (2)	-2419993237.0	17.0	-1664228729.7	12.8	5643538297.3	39.4
TITIJIMA	7316	-4489356567.6	112.5	3482989533.0	124.5	2887931182.8	71.8
TROMSONO	7602	2102904414.5	6.4	721602343.3	4.7	5958201224.1	14.2
TRYSILNO	7607	2988029476.0	5.2	655956870.5	2.4	5578668957.7	9.9
TSUKUBA	7311	-3957172655.0	20.7	3310237981.5	18.0	3737709036.1	21.0
USUDA64	7246	-3855355065.0	33.1	3427427726.4	29.2	3740971378.9	38.7
VERNAL	7290	-1631473116.1	9.5	-4589128892.1	23.4	4106759853.1	19.9
VICTORIA	7289	-2341309888.2	10.4	-3539083828.9	15.7	4745768351.0	20.1
VNDNBERG	7223	-2678094522.6	1.7	-4525450896.3	3.1	3597410030.3	3.5
WESTFORD	7209 ref	1492206855.8	.0	-4458130523.6	.0	4296015427.0	.0
WETTZELL	7224	4075540235.0	2.4	931734994.8	1.4	4801629222.2	4.0
WHTHORSE	7284	-2215213312.6	18.9	-2209261509.3	15.6	5540292394.2	37.7
WHTHORSE	7284 (2)	-2215213426.3	35.2	-2209261610.6	33.1	5540292579.7	79.7
YAKATAGA	7277	-2529743992.4	10.0	-1942091277.8	8.5	5505027976.4	21.2
YAKATAGA	7277 (2)	-2529744009.3	19.2	-1942091232.2	15.7	5505027837.4	40.3
YELLOWKN	7285	-1224124289.1	5.4	-2689530610.8	11.5	5633555273.3	23.9
YLOW7296	7296	-1224399213.4	1.9	-2689273194.1	3.1	5633620239.2	5.0
YUMA	7894	-2196777754.1	5.5	-4887337030.7	12.1	3448425220.1	8.9

Notes:

- (1) Positions after the October 1989 Loma Prieta earthquake extrapolated to the site reference epoch.
- (2) Positions after the winter 1987-88 Gulf of Alaska earthquakes extrapolated to the site reference epoch.
- ref Reference station which defines the coordinate system origin.

Table 5.8

VLBI Site positions at January 1.5, 1986							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
ALGOPARK	7282	918035000.3	1.2	-4346132246.1	4.3	4561971066.3	4.1
AUSTINTX	7271	-737793658.6	3.7	-5459892243.4	16.1	3202990428.2	9.5
BERMUDA	7294	2307209645.6	8.3	-4874215874.9	27.9	3394317815.9	19.1
BLKBUTTE	7269	-2306306796.9	6.0	-4787914404.1	12.0	3515736398.4	9.0
BLOOMIND	7291	302384615.7	21.7	-4941699044.7	47.5	4007908419.9	37.1
BREST	7604	4228877366.4	11.1	-333104440.8	2.5	4747180843.9	12.0
CARNUSTY	7603	3526416641.7	15.4	-171421339.2	3.9	5294098712.5	20.9
CARROLGA	7228	453520774.8	9.2	-5300506770.4	34.2	3507207367.0	20.6
CHLBOLTN	7215	4008310332.9	7.5	-100651007.1	3.7	4943794637.6	9.8
DEADMANL	7267	-2336819502.3	19.2	-4732586948.1	37.3	3570329968.4	26.2
DSS15	7231	-2353538598.5	10.6	-4641649499.8	21.7	3676669991.1	21.3
DSS45	1642	-4460934804.2	18.3	2682765838.1	12.8	-3674381738.5	11.2
DSS65	1665	4849336919.9	11.6	-360489075.4	2.7	4114748638.3	12.6
EFLSBERG	7203	4033947752.9	3.5	486990257.1	1.9	4900430633.0	5.3
ELY	7286	-2077236141.8	6.0	-4486712686.4	13.1	4018753723.0	10.9
FD-VLBA	7613	-1324008943.4	5.3	-5332181913.6	11.5	3231962438.8	8.3
FLAGSTAF	7261	-1923992515.4	5.1	-4850854496.9	12.5	3658589272.9	9.2
FORT ORD	7266	-2697026576.6	5.7	-4354393348.9	9.3	3788077518.5	8.2
FORTORDS	7241	-2699840068.4	10.8	-4359127122.3	17.4	3781050866.6	14.7
FORTORDS	7241 (1)	-2699840044.4	12.5	-4359127099.5	20.1	3781050904.6	17.3
FTD 7900	7900	-1324227796.8	3.6	-5332063034.8	12.7	3232023016.4	7.7
GILCREEK	7225	-2281546943.9	1.3	-1453645012.5	1.7	5756993200.9	2.9
GOLDVENU	1513	-2351128965.3	1.6	-4655477046.1	3.1	3660956881.2	3.3
GORF7102	7102	1130686736.5	8.6	-4831353006.2	30.6	3994110807.1	25.1
GRASSE	7605	4581697943.1	13.0	556125483.9	3.7	4389351289.6	13.5
HALEAKAL	7120	-5465998318.8	14.1	-2404408600.3	7.2	2242228339.7	7.5
HARTRAO	7232	5085442964.9	13.0	2668263244.1	8.2	-2768697254.6	7.1
HATCREEK	7218	-2523969761.6	1.4	-4123506325.1	2.6	4147752571.9	3.2
HAYSTACK	7205	1492404980.6	.5	-4457266531.1	1.1	4296881662.3	1.1
HOBART26	7242	-3950236096.6	21.3	2522347598.6	15.4	-4311563018.4	18.0
HOHENFRG	7600	3778215180.7	6.0	698644530.8	2.4	5074053473.8	8.1
JPL MV1	7263	-2493305800.1	4.2	-4655197638.2	7.7	3565519254.8	6.2
KASHIM34	1857	-3997649023.2	3.9	3276690819.1	2.8	3724278956.3	5.8
KASHIMA	1856	-3997892042.5	3.0	3276581325.7	2.0	3724118349.3	5.2
KAUAI	1311	-5543845847.9	2.7	-2054564215.8	2.3	2387813707.0	4.2
KODIAK	7278	-3026939951.2	10.3	-1575911747.4	7.1	5370362478.6	18.2
KWAJAL26	4968	-6143536360.4	7.5	1363997181.1	3.2	1034707333.9	6.0
LA-VLBA	7611	-1449752152.1	.7	-4975298556.0	2.1	3709123921.3	2.0
LEONRDOK	7292	-522231430.1	3.7	-5145676864.2	19.1	3720152301.8	12.7
MAMMOTHL	7259	-2448246609.3	11.3	-4426738307.9	20.8	3875435887.3	17.5
MARCUS	7310	-5227446733.9	15.4	2551379159.9	9.0	2607604703.1	14.2
MARPOINT	7217	1106629533.7	1.7	-4882907198.2	5.4	3938086886.0	4.5
MATERA	7243	4641939239.6	21.0	1393002770.0	7.8	4133325426.6	19.7
MCD 7850	7850	-1330008005.0	2.8	-5328391556.5	10.5	3236502698.1	6.6
MEDICINA	7230	4461370333.0	4.9	919596548.1	2.2	4449559048.5	6.1
METSHOVI	7601	2890653098.6	15.6	1310295131.1	7.1	5513958613.2	23.5
MILESMON	7038	-1204438831.3	9.2	-4239211086.4	30.1	4596266032.2	30.1
MIYAZAKI	7312	-3582767581.7	109.2	4052034091.4	71.7	3369020640.9	112.3
MIZUSGSI	7314	-3862411627.2	43.1	3105015112.5	17.4	4001944965.7	23.9
MOJ 7288	7288	-2356493946.9	5.8	-4646607656.6	11.0	3668426600.4	8.5
MOJAVE12	7222	-2356170825.9	.7	-4646755859.9	1.7	3668470583.2	2.5
MON PEAK	7274	-2386289210.0	2.7	-4802346603.9	5.6	3444883885.5	4.6
NOBEY 6M	7244	-3871168006.3	9.8	3428274059.7	8.7	3723697724.6	13.1
NOME	7279	-2658150199.9	9.1	-693821869.2	4.3	5737236618.4	15.7
NOTO	7547	4934563461.7	11.4	1321201000.0	4.7	3806484280.0	10.8

(continued)

VLBI Site positions at January 1.5, 1986							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
NRAO 140	7204	882880116.8	.8	-4924482322.9	3.0	3944130593.7	2.6
NRAO85 3	7214	882325806.9	2.0	-4925137986.6	5.9	3943397573.5	4.7
OCOTILLO	7270	-2335600962.9	18.0	-4832244158.6	35.3	3434392504.8	25.8
ONSALA60	7213	3370606342.9	1.8	711917268.4	1.2	5349830599.2	3.6
OVR 7853	7853	-2410421061.0	5.0	-4477800380.5	9.1	3838690296.7	7.6
OVRO 130	7207	-2409600580.6	1.0	-4478349513.8	2.2	3838603189.5	2.8
PBLOSSOM	7254	-2464070758.5	5.5	-4649425601.6	10.2	3593905671.7	8.0
PENTICTN	7283	-2058840223.1	10.5	-3621286371.6	18.0	4814420729.6	22.6
PIETOWN	7234	-1640953496.0	1.5	-5014816003.2	3.3	3575411900.8	3.3
PINFLATS	7256	-2369635751.9	4.6	-4761324951.7	9.2	3511116058.5	7.2
PLATTVIL	7258	-1240707967.9	2.2	-4720454339.5	7.0	4094481618.1	5.9
PRESIDIO	7252	-2707704699.2	5.6	-4257609567.7	8.9	3888374155.7	8.3
PRESIDIO (1)		-2707704684.3	13.5	-4257609551.1	21.2	3888374126.2	18.8
PT REYES	7251	-2732332914.7	6.5	-4217634933.4	10.0	3914490963.2	9.6
PVERDES	7268	-2525452604.8	11.7	-4670035711.5	21.1	3522886675.5	15.9
QUINCY	7221	-2517230716.8	3.9	-4198595187.8	6.7	4076531252.6	6.6
RICHMOND	7219	961258212.6	1.0	-5674090045.6	1.7	2740533696.2	1.2
ROBLED32	1561	4849245437.4	43.0	-360278423.7	8.8	4114884363.1	35.8
SANPAULA	7255	-2554476477.0	10.9	-4608627416.7	19.8	3582138210.3	15.0
SANTIA12	1404	1769693017.9	8.6	-5044504406.4	16.1	-3468435165.8	9.2
SEATTLE1	7229	-2295347802.5	34.5	-3638029437.5	256.5	4693408675.4	254.9
SESHAN25	7227	-2831686380.6	8.7	4675733867.8	10.4	3275327836.7	10.5
SEST	7239	1838237926.2	9.4	-5258699173.1	17.3	-3100588953.8	8.7
SHANGHAI	7226	-2847697739.2	109.3	4659872776.8	96.7	3283958772.4	87.2
SINTOTU	7315	-3642141596.3	84.3	2861496665.5	80.8	4370361770.6	61.1
SNDPOINT	7280	-3425461677.3	15.8	-1214669081.7	9.6	5223858254.4	24.0
SOURDOGH	7281	-2419993268.6	4.6	-1664228703.1	4.0	5643538229.2	10.7
SOURDOGH (2)		-2419993258.5	13.2	-1664228730.8	9.9	5643538287.8	30.7
TITIJIMA	7316	-4489356553.6	112.5	3482989550.0	124.5	2887931184.2	71.8
TROMSONO	7602	2102904397.2	6.4	721602356.4	4.7	5958201228.6	14.2
TRYSILNO	7607	2988029459.9	5.2	655956886.1	2.4	5578668964.5	9.9
TSUKUBA	7311	-3957172668.5	14.7	3310237981.2	12.9	3737709022.1	15.4
USUDA64	7246	-3855355085.6	33.1	3427427717.6	29.2	3740971365.7	38.7
VERNAL	7290	-1631473132.3	7.3	-4589128892.9	18.1	4106759845.7	15.3
VICTORIA	7289	-2341309906.6	10.4	-3539083829.8	15.7	4745768341.2	20.1
VNDNBERG	7223	-2678094551.6	1.3	-4525450862.7	2.5	3597410051.0	3.1
WESTFORD	7209 ref	1492206838.9	.0	-4458130524.9	.0	4296015431.4	.0
WETTZELL	7224	4075540219.9	2.0	931735013.2	1.2	4801629231.4	3.8
WHTHORSE	7284	-2215213333.7	14.4	-2209261510.4	10.4	5540292385.2	25.4
WHTHORSE (2)		-2215213447.5	26.7	-2209261611.7	25.2	5540292570.7	60.6
YAKATAGA	7277	-2529744013.4	7.0	-1942091278.8	6.1	5505027966.4	14.8
YAKATAGA (2)		-2529744030.3	15.1	-1942091233.2	12.3	5505027827.4	31.7
YELLOWKN	7285	-1224124310.7	5.4	-2689530612.1	11.5	563355268.0	23.9
YLOW7296	7296	-1224399235.0	1.9	-2689273195.4	3.1	5633620233.9	5.0
YUMA	7894	-2196777767.9	3.6	-4887337031.3	8.0	3448425210.6	6.1

Notes:

- (1) Positions after the October 1989 Loma Prieta earthquake extrapolated to the site reference epoch.
- (2) Positions after the winter 1987-88 Gulf of Alaska earthquakes extrapolated to the site reference epoch.
- ref Reference station which defines the coordinate system origin.

Table 5.9

VLBI Site positions at January 1.5, 1987							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
ALGOPARK	7282	918034982.5	.9	-4346132247.4	3.5	4561971068.6	3.3
AUSTINTX	7271	-737793671.5	3.7	-5459892244.1	16.1	3202990424.0	9.5
BERMUDA	7294	2307209632.1	8.3	-4874215876.1	27.9	3394317823.2	19.1
BLKBUTTE	7269	-2306306810.9	4.2	-4787914404.6	8.5	3515736388.4	6.5
BLOOMIND	7291	302384599.8	21.7	-4941699045.8	47.5	4007908419.8	37.1
BREST	7604	4228877355.6	11.1	-333104422.0	2.5	4747180854.8	12.0
CARNUSTY	7603	3526416629.1	15.4	-171421322.2	3.9	5294098721.5	20.9
CARROLGA	7228	453520760.7	9.2	-5300506771.4	34.2	3507207367.3	20.6
CHLBOLTN	7215	4008310320.9	7.5	-100650988.8	3.7	4943794647.7	9.8
DEADMANL	7267	-2336819516.5	11.0	-4732586948.6	20.9	3570329958.3	15.2
DSS15	7231	-2353538613.1	6.9	-4641649500.4	14.1	3676669981.0	13.3
DSS45	1642	-4460934841.5	15.0	2682765838.9	10.6	-3674381692.7	9.5
DSS65	1665	4849336910.8	8.3	-360489055.2	2.2	4114748650.8	9.2
EFLSBERG	7203	4033947739.1	3.2	486990275.4	1.6	4900430642.6	5.1
ELY	7286	-2077236157.7	4.4	-4486712687.1	9.4	4018753714.0	7.9
FD-VLBA	7613	-1324008956.4	5.3	-5332181914.2	11.5	3231962432.4	8.3
FLAGSTAF	7261	-1923992530.0	4.1	-4850854497.5	10.0	3658589264.4	7.4
FORT ORD	7266	-2697026602.8	4.7	-4354393314.8	7.6	3788077539.0	6.9
FORTORDS	7241	-2699840094.7	8.7	-4359127088.2	13.9	3781050887.2	11.8
FORTORDS	7241 (1)	-2699840070.7	9.8	-4359127065.4	15.8	3781050925.2	13.6
FTD 7900	7900	-1324227809.8	3.6	-5332063035.4	12.7	3232023010.0	7.7
GILCREEK	7225	-2281546965.7	1.2	-1453645013.6	1.7	5756993192.0	2.9
GOLDVENU	1513	-2351128979.8	1.5	-4655477046.7	2.8	3660956871.1	3.1
GORF7102	7102	1130686720.7	7.0	-4831353007.4	24.7	3994110810.1	20.3
GRASSE	7605	4581697930.3	13.0	556125503.5	3.7	4389351300.5	13.5
HALEAKAL	7120	-5465998332.6	14.1	-2404408539.8	7.3	2242228371.2	7.6
HARTRAO	7232	5085442962.9	10.7	2668263267.5	7.3	-2768697235.7	6.6
HATCREEK	7218	-2523969777.9	1.1	-4123506325.8	2.1	4147752561.3	2.8
HAYSTACK	7205	1492404963.8	.4	-4457266532.5	.9	4296881666.7	.9
HOBART26	7242	-3950236136.3	17.3	2522347608.0	12.8	-4311562976.6	14.7
HOHENFRG	7600	3778215165.7	6.0	698644548.4	2.4	5074053482.5	8.1
JPL MV1	7263	-2493305830.5	4.1	-4655197606.6	7.4	3565519274.8	6.0
KASHIM34	1857	-3997649036.7	3.6	3276690818.7	2.6	3724278942.1	5.9
KASHIMA	1856	-3997892055.9	2.8	3276581325.3	2.0	3724118335.1	5.4
KAUAI	1311	-5543845857.2	2.5	-2054564154.3	2.4	2387813738.3	4.3
KODIAK	7278	-3026939971.6	7.4	-1575911748.4	5.2	5370362466.8	13.2
KWAJAL26	4968	-6143536340.9	7.6	1363997246.7	3.4	1034707362.8	6.0
LA-VLBA	7611	-1449752166.9	.7	-4975298556.7	2.1	3709123914.6	2.0
LEONRDK	7292	-522231445.0	3.7	-5145676865.1	19.1	3720152298.4	12.7
MAMMOTHL	7259	-2448246624.6	15.7	-4426738308.6	28.9	3875435876.9	24.1
MARCUS	7310	-5227446694.1	15.4	2551379218.5	9.0	2607604725.5	14.2
MARPOINT	7217	1106629518.1	1.4	-4882907199.4	4.4	3938086888.9	3.6
MATERA	7243	4641939224.7	17.2	1393002789.5	6.4	4133325436.7	16.3
MCD 7850	7850	-1330008018.1	2.8	-5328391557.1	10.5	3236502691.7	6.6
MEDICINA	7230	4461370318.9	3.9	919596567.3	1.7	4449559058.7	5.3
METSHOVI	7601	2890653080.5	15.6	1310295146.3	7.1	5513958619.0	23.5
MILESMON	7038	-1204438849.3	9.2	-4239211087.4	30.1	4596266026.6	30.1
MIYAZAKI	7312	-3582767603.4	109.2	4052034083.0	71.7	3369020627.8	112.3
MIZUSGSI	7314	-3862411641.7	43.1	3105015112.1	17.4	4001944952.0	23.9
MOJ 7288	7288	-2356493961.4	5.8	-4646607657.2	11.0	3668426590.3	8.5
MOJAVE12	7222	-2356170840.5	.6	-4646755860.5	1.5	3668470573.1	2.4
MON PEAK	7274	-2386289242.7	2.2	-4802346573.6	4.6	3444883905.2	3.9
NOBEY 6M	7244	-3871168019.7	9.8	3428274059.4	8.7	3723697710.9	13.1
NOME	7279	-2658150221.5	7.5	-693821870.3	3.7	5737236608.3	13.5
NOTO	7547	4934563447.9	8.9	1321201020.1	3.7	3806484291.0	8.9

(continued)

VLBI Site positions at January 1.5, 1987							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
NRAO 140	7204	882880101.2	.8	-4924482324.1	2.9	3944130595.7	2.5
NRAO85 3	7214	882325791.3	1.6	-4925137987.8	4.7	3943397575.5	3.8
OCOTILLO	7270	-2335600995.9	18.0	-4832244128.8	35.3	3434392524.3	25.8
ONSALA60	7213	3370606327.1	1.7	711917285.0	1.1	5349830606.9	3.6
OVR 7853	7853	-2410421076.2	5.0	-4477800381.1	9.1	3838690286.5	7.6
OVRO 130	7207	-2409600595.7	1.1	-4478349514.4	2.2	3838603179.3	2.8
PBLOSSOM	7254	-2464070772.8	5.8	-4649425602.1	10.9	3593905661.2	8.4
PENTICTN	7283	-2058840241.8	8.7	-3621286372.6	14.8	4814420720.9	18.7
PIETOWN	7234	-1640953510.2	1.2	-5014816003.9	2.6	3575411893.3	2.8
PINFLATS	7256	-2369635783.7	3.7	-4761324921.5	7.3	3511116078.0	5.9
PLATTVIL	7258	-1240707984.1	1.7	-4720454340.4	5.4	4094481612.2	4.7
PRESIDIO	7252	-2707704714.6	4.0	-4257609568.3	6.5	3888374144.4	6.2
PRESIDIO	7252 (1)	-2707704699.6	11.1	-4257609551.7	17.4	3888374114.9	15.6
PT REYES	7251	-2732332938.8	4.9	-4217634898.7	7.5	3914490983.7	7.3
PVERDES	7268	-2525452635.6	8.6	-4670035679.6	15.5	3522886695.7	11.7
QUINCY	7221	-2517230732.8	3.0	-4198595188.4	5.2	4076531242.1	5.2
RICHMOND	7219	961258201.4	1.0	-5674090046.5	1.7	2740533698.3	1.2
ROBLED32	1561	4849245428.2	43.9	-360278403.5	8.9	4114884375.6	37.0
SANPAULA	7255	-2554476506.9	8.1	-4608627384.4	14.7	3582138230.5	11.2
SANTIA12	1404	1769693018.8	8.6	-5044504411.7	16.1	-3468435157.5	9.2
SEATTLE1	7229	-2295347820.7	27.0	-3638029438.4	200.8	4693408665.8	199.5
SESHAN25	7227	-2831686404.2	7.0	4675733861.8	8.1	3275327824.8	9.1
SEST	7239	1838237926.3	9.4	-5258699178.1	17.3	-3100588945.1	8.7
SHANGHAI	7226	-2847697762.8	109.3	4659872770.8	96.7	3283958760.4	87.2
SINTOTU	7315	-3642141612.2	84.3	2861496664.9	80.8	4370361757.6	61.1
SNDPOINT	7280	-3425461697.2	11.6	-1214669082.5	7.2	5223858241.1	17.8
SOURDOGH	7281	-2419993290.1	5.6	-1664228704.2	4.7	5643538219.7	13.0
SOURDOGH	7281 (2)	-2419993280.0	9.6	-1664228731.9	7.2	5643538278.3	22.3
TITIJIMA	7316	-4489356539.5	112.5	3482989567.0	124.5	2887931185.6	71.8
TROMSONO	7602	2102904380.0	6.4	721602369.4	4.7	5958201233.2	14.2
TRYSILNO	7607	2988029443.7	5.2	655956901.7	2.4	5578668971.3	9.9
TSUKUBA	7311	-3957172682.0	10.7	3310237980.8	9.5	3737709008.1	11.9
USUDA64	7246	-3855355106.3	33.1	3427427708.8	29.2	3740971352.5	38.7
VERNAL	7290	-1631473148.5	5.4	-4589128893.7	13.2	4106759838.4	11.0
VICTORIA	7289	-2341309925.0	10.4	-3539083830.6	15.7	4745768331.5	20.1
VNDNBERG	7223	-2678094580.5	1.0	-4525450829.1	2.1	3597410071.8	2.8
WESTFORD	7209 ref	1492206822.0	.0	-4458130526.3	.0	4296015435.9	.0
WETTZELL	7224	4075540204.8	1.7	931735031.6	1.0	4801629240.6	3.8
WHTHORSE	7284	-2215213354.9	14.3	-2209261511.5	10.2	5540292376.3	24.8
WHTHORSE	7284 (2)	-2215213468.7	18.3	-2209261612.8	17.3	5540292561.8	41.6
YAKATAGA	7277	-2529744034.4	5.8	-1942091279.8	5.1	5505027956.4	12.3
YAKATAGA	7277 (2)	-2529744051.3	11.1	-1942091234.3	9.1	5505027817.4	23.3
YELLOWKN	7285	-1224124332.3	5.4	-2689530613.3	11.5	5633555262.7	23.9
YLOW7296	7296	-1224399256.6	1.9	-2689273196.7	3.1	5633620228.5	5.0
YUMA	7894	-2196777781.6	2.5	-4887337031.9	5.4	3448425201.0	4.4

Notes:

- (1) Positions after the October 1989 Loma Prieta earthquake extrapolated to the site reference epoch.
 - (2) Positions after the winter 1987-88 Gulf of Alaska earthquakes extrapolated to the site reference epoch.
- ref Reference station which defines the coordinate system origin.

Table 5.10

VLBI Site positions at January 1.5, 1988							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
ALGOPARK	7282	918034964.6	.7	-4346132248.8	2.7	4561971070.9	2.6
AUSTINTX	7271	-737793684.4	3.7	-5459892244.8	16.1	3202990419.8	9.5
BERMUDA	7294	2307209618.5	8.3	-4874215877.4	27.9	3394317830.6	19.1
BLKBUTTE	7269	-2306306824.9	5.0	-4787914405.2	10.3	3515736378.5	7.6
BLOOMIND	7291	302384583.9	21.7	-4941699046.9	47.5	4007908419.6	37.1
BREST	7604	4228877344.8	11.1	-333104403.2	2.5	4747180865.8	12.0
CARNUSTY	7603	3526416616.4	15.4	-171421305.1	3.9	5294098730.5	20.9
CARROLGA	7228	453520746.7	9.2	-5300506772.4	34.2	3507207367.6	20.6
CHLBOLTN	7215	4008310308.9	7.5	-100650970.5	3.7	4943794657.8	9.8
DEADMANTL	7267	-2336819530.7	10.1	-4732586949.2	18.6	3570329948.3	14.0
DSS15	7231	-2353538627.7	3.5	-4641649501.0	7.2	3676669970.9	6.5
DSS45	1642	-4460934878.8	11.9	2682765839.7	9.0	-3674381646.8	8.4
DSS65	1665	4849336901.7	5.0	-360489035.0	1.7	4114748663.3	6.2
EFLSBERG	7203	4033947725.2	3.2	486990293.7	1.5	4900430652.2	5.1
ELY	7286	-2077236173.5	3.3	-4486712687.9	7.2	4018753705.0	6.1
FD-VLBA	7613	-1324008969.5	5.3	-5332181914.9	11.5	3231962426.0	8.3
FLAGSTAF	7261	-1923992544.5	3.9	-4850854498.2	9.4	3658589255.9	7.2
FORT ORD	7266	-2697026629.0	5.3	-4354393280.7	8.5	3788077559.6	7.6
FORTORDS	7241	-2699840121.0	7.1	-4359127054.1	11.3	3781050907.7	9.5
FORTORDS	7241 (1)	-2699840097.0	7.3	-4359127031.2	11.6	3781050945.8	10.1
FTD	7900 7900	-1324227822.8	3.6	-5332063036.1	12.7	3232023003.6	7.7
GILCREEK	7225	-2281546987.6	1.2	-1453645014.8	1.8	5756993183.0	3.1
GOLDVENU	1513	-2351128994.3	1.4	-4655477047.3	2.7	3660956861.0	3.1
GORF7102	7102	1130686704.9	5.3	-4831353008.7	18.8	3994110813.1	15.5
GRASSE	7605	4581697917.5	13.0	556125523.0	3.7	4389351311.4	13.5
HALEAKAL	7120	-5465998346.3	14.1	-2404408479.2	7.4	2242228402.7	7.7
HARTRAO	7232	5085442961.0	8.8	2668263290.9	6.8	-2768697216.8	6.4
HATCREEK	7218	-2523969794.2	.8	-4123506326.4	1.9	4147752550.7	2.6
HAYSTACK	7205	1492404946.9	.3	-4457266533.9	.7	4296881671.1	.7
HOBERT26	7242	-3950236175.9	13.7	2522347617.4	10.6	-4311562934.8	11.8
HOHENFRG	7600	3778215150.7	6.0	698644566.1	2.4	5074053491.2	8.1
JPL MV1	7263	-2493305861.0	5.1	-4655197575.0	9.3	3565519294.8	7.3
KASHIM34	1857	-3997649050.1	3.5	3276690818.4	2.6	3724278928.0	6.5
KASHIMA	1856	-3997892069.4	3.0	3276581325.0	2.1	3724118321.0	6.2
KAUAI	1311	-5543845866.6	2.4	-2054564092.7	2.8	2387813769.6	4.5
KODIAK	7278	-3026939992.1	5.2	-1575911749.3	3.8	5370362455.0	9.4
KWALJAL26	4968	-6143536321.5	10.0	1363997312.4	4.2	1034707391.7	6.8
LA-VLBA	7611	-1449752181.6	.7	-4975298557.5	2.1	3709123907.8	2.0
LEONRDOK	7292	-522231459.8	3.7	-5145676866.0	19.1	3720152295.1	12.7
MAMMOTHL	7259	-2448246639.9	21.5	-4426738309.2	39.3	3875435866.6	32.8
MARCUS	7310	-5227446654.3	15.4	2551379277.1	9.0	2607604748.0	14.2
MARPOINT	7217	1106629502.5	1.2	-4882907200.6	3.8	3938086891.7	3.1
MATERA	7243	4641939209.8	13.5	1393002809.1	5.1	4133325446.9	13.1
MCD	7850 7850	-1330008031.1	2.8	-5328391557.8	10.5	3236502685.3	6.6
MEDICINA	7230	4461370304.7	3.1	919596586.6	1.4	4449559068.9	4.9
METSHOVI	7601	2890653062.4	15.6	1310295161.5	7.1	5513958624.9	23.5
MILESMON	7038	-1204438867.3	9.2	-4239211088.4	30.1	4596266020.9	30.1
MIYAZAKI	7312	-3582767625.2	109.2	4052034074.7	71.7	3369020614.7	112.3
MIZUSGSI	7314	-3862411656.3	43.1	3105015111.6	17.4	4001944938.3	23.9
MOJ	7288 7288	-2356493976.0	5.8	-4646607657.8	11.0	3668426580.2	8.4
MOJAVE12	7222	-2356170855.0	.5	-4646755861.1	1.5	3668470563.0	2.3
MON PEAK	7274	-2386289275.3	2.4	-4802346543.2	4.8	3444883924.9	4.0
NOBEY 6M	7244	-3871168033.2	9.8	3428274059.0	8.7	3723697697.3	13.1
NOME	7279	-2658150243.2	6.9	-693821871.4	3.4	5737236598.1	13.2
NOTO	7547	4934563434.0	6.6	1321201040.3	2.8	3806484301.9	7.3

(continued)

VLBI Site positions at January 1.5, 1988							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
NRAO 140	7204	882880085.5	.9	-4924482325.3	3.0	3944130597.7	2.5
NRAO85 3	7214	882325775.7	1.2	-4925137989.0	3.6	3943397577.5	2.9
OCOTILLO	7270	-2335601028.9	18.0	-4832244099.0	35.3	3434392543.8	25.8
ONSALA60	7213	3370606311.4	1.7	711917301.6	1.1	5349830614.6	3.9
OVR 7853	7853	-2410421091.3	5.0	-4477800381.8	9.2	3838690276.2	7.6
OVRO 130	7207	-2409600610.9	1.3	-4478349515.1	2.6	3838603169.0	3.0
PBLOSSOM	7254	-2464070787.0	7.9	-4649425602.7	14.7	3593905650.7	11.2
PENTICTN	7283	-2058840260.5	7.7	-3621286373.5	12.7	4814420712.2	16.5
PIETOWN	7234	-1640953524.5	.9	-5014816004.6	2.0	3575411885.8	2.3
PINFLATS	7256	-2369635815.6	4.1	-4761324891.2	8.0	3511116097.6	6.4
PLATTVIL	7258	-1240708000.3	1.6	-4720454341.3	5.0	4094481606.3	4.4
PRESIDIO	7252	-2707704729.9	4.0	-4257609568.8	6.4	3888374133.1	6.0
PRESIDIO 7252	(1)	-2707704714.9	8.9	-4257609552.3	13.9	3888374103.6	12.6
PT REYES	7251	-2732332963.0	3.6	-4217634864.1	5.7	3914491004.2	5.6
PVERDES	7268	-2525452666.5	6.2	-4670035647.7	11.2	3522886715.9	8.6
QUINCY	7221	-2517230748.8	2.7	-4198595189.1	4.7	4076531231.5	4.7
RICHMOND	7219	961258190.1	1.0	-5674090047.4	1.7	2740533700.4	1.2
ROBED32	1561	4849245419.1	45.1	-360278383.3	9.0	4114884388.1	38.5
SANPAULA	7255	-2554476536.8	6.2	-4608627352.1	11.1	3582138250.8	8.6
SANTIA12	1404	1769693019.6	8.6	-5044504417.1	16.1	-3468435149.2	9.2
SEATTLE1	7229	-2295347839.0	19.9	-3638029439.2	145.2	4693408656.2	144.4
SESHAN25	7227	-2831686427.7	5.7	4675733855.9	6.0	3275327812.9	8.5
SEST	7239	1838237926.4	9.4	-5258699183.2	17.3	-3100588936.5	8.7
SHANGHAI	7226	-2847697786.3	109.3	4659872764.8	96.7	3283958748.5	87.3
SINTOTU	7315	-3642141628.2	84.3	2861496664.3	80.8	4370361744.7	61.1
SNDPOINT	7280	-3425461717.0	8.0	-1214669083.3	5.0	5223858228.0	12.5
SOURDOGH	7281	-2419993311.6	8.5	-1664228705.3	6.8	5643538210.1	19.8
SOURDOGH	7281 (2)	-2419993301.5	6.4	-1664228733.0	4.9	5643538268.7	14.9
TITIJIMA	7316	-4489356525.4	112.5	3482989584.0	124.5	2887931186.9	71.8
TROMSONO	7602	2102904362.7	6.4	721602382.5	4.7	5958201237.7	14.2
TRYSILNO	7607	2988029427.6	5.2	655956917.3	2.4	5578668978.1	9.9
TSUKUBA	7311	-3957172695.5	10.9	3310237980.5	9.9	3737708994.1	12.7
USUDA64	7246	-3855355126.9	33.1	3427427699.9	29.2	3740971339.4	38.7
VERNAL	7290	-1631473164.7	3.9	-4589128894.6	9.4	4106759831.0	7.9
VICTORIA	7289	-2341309943.4	10.4	-3539083831.5	15.7	4745768321.8	20.1
VNDNBERG	7223	-2678094609.5	.9	-4525450795.5	1.9	3597410092.5	2.6
WESTFORD	7209 ref	1492206805.2	.0	-4458130527.7	.0	4296015440.3	.0
WETTZEIL	7224	4075540189.8	1.7	931735049.9	1.0	4801629249.9	4.1
WHTHORSE	7284	-2215213376.1	18.8	-2209261512.6	15.2	5540292367.4	36.6
WHTHORSE	7284 (2)	-2215213489.9	10.2	-2209261613.9	9.8	5540292552.9	23.5
YAKATAGA	7277	-2529744055.4	7.5	-1942091280.9	6.4	5505027946.3	15.7
YAKATAGA	7277 (2)	-2529744072.3	7.4	-1942091235.3	6.1	5505027807.4	15.7
YELLOWKN	7285	-1224124353.9	5.4	-2689530614.6	11.5	5633555257.4	23.9
YLOW7296	7296	-1224399278.3	1.9	-2689273198.0	3.1	5633620223.2	5.0
YUMA	7894	-2196777795.4	2.9	-4887337032.4	6.4	3448425191.4	4.9

Notes:

- (1) Positions after the October 1989 Loma Prieta earthquake extrapolated to the site reference epoch.
- (2) Positions after the winter 1987-88 Gulf of Alaska earthquakes extrapolated to the site reference epoch.
- ref Reference station which defines the coordinate system origin.

Table 5.11

VLBI Site positions at January 1.5, 1989							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
ALGOPARK	7282	918034946.7	.6	-4346132250.2	2.0	4561971073.2	2.0
AUSTINTX	7271	-737793697.4	3.7	-5459892245.6	16.1	3202990415.6	9.5
BERMUDA	7294	2307209604.9	8.3	-4874215878.7	27.9	3394317838.0	19.1
BLKBUTTE	7269	-2306306838.9	7.6	-4787914405.7	15.6	3515736368.5	11.2
BLOOMIND	7291	302384568.0	21.7	-4941699048.1	47.5	4007908419.4	37.1
BREST	7604	4228877334.0	11.1	-333104384.4	2.5	4747180876.7	12.0
CARNUSTY	7603	3526416603.7	15.4	-171421288.0	3.9	5294098739.5	20.9
CARROLGA	7228	453520732.6	9.2	-5300506773.4	34.2	3507207367.9	20.6
CHLBOLTN	7215	4008310296.8	7.5	-100650952.2	3.7	4943794668.0	9.8
DEADMANL	7267	-2336819544.9	17.8	-4732586949.8	33.4	3570329938.2	24.2
DSS15	7231	-2353538642.3	2.7	-4641649501.6	5.9	3676669960.8	6.9
DSS45	1642	-4460934916.2	9.4	2682765840.6	8.3	-3674381600.8	8.1
DSS65	1665	4849336892.5	2.8	-360489014.8	1.5	4114748675.8	4.5
EFLSBERG	7203	4033947711.3	3.3	486990312.1	1.5	4900430661.8	5.4
ELY	7286	-2077236189.4	3.6	-4486712688.6	7.7	4018753696.0	6.6
FD-VLBA	7613	-1324008982.5	5.3	-5332181915.5	11.5	3231962419.6	8.3
FLAGSTAF	7261	-1923992559.1	4.7	-4850854498.8	11.1	3658589247.3	8.8
FORT ORD	7266	-2697026655.3	7.1	-4354393246.5	11.3	3788077580.2	9.9
FORTORDS	7241	-2699840147.3	6.4	-4359127019.9	10.2	3781050928.4	8.5
FORTORDS	7241 (1)	-2699840123.4	5.0	-4359126997.0	8.0	3781050966.4	7.1
FTD 7900	7900	-1324227835.9	3.6	-5332063036.7	12.7	3232022997.2	7.7
GILCREEK	7225	-2281547009.6	1.3	-1453645015.9	2.0	5756993174.0	3.5
GOLDVENU	1513	-2351129008.9	1.5	-4655477047.9	2.9	3660956850.9	3.2
GORF7102	7102	1130686689.1	3.7	-4831353009.9	13.2	3994110816.0	11.0
GRASSE	7605	4581697904.7	13.0	556125542.7	3.7	4389351322.3	13.5
HALEAKAL	7120	-5465998360.0	14.0	-2404408418.6	7.6	2242228434.2	7.8
HARTRAO	7232	5085442959.0	7.5	2668263314.3	6.9	-2768697197.8	6.7
HATCREEK	7218	-2523969810.5	.8	-4123506327.1	2.0	4147752540.1	2.6
HAYSTACK	7205	1492404930.0	.3	-4457266535.3	.6	4296881675.5	.6
HOBART26	7242	-3950236215.7	10.5	2522347626.8	9.4	-4311562892.9	9.7
HOHENFRG	7600	3778215135.6	6.0	698644583.8	2.4	5074053500.0	8.1
JPL MV1	7263	-2493305891.6	6.8	-4655197543.3	12.4	3565519314.8	9.6
KASHIM34	1857	-3997649063.6	3.7	3276690818.1	2.7	3724278913.8	7.6
KASHIMA	1856	-3997892082.9	3.4	3276581324.7	2.4	3724118306.8	7.4
KAUAI	1311	-5543845875.9	2.2	-2054564031.0	3.2	2387813801.0	4.8
KODIAK	7278	-3026940012.6	4.9	-1575911750.2	3.4	5370362443.2	8.7
KWAJAL26	4968	-6143536302.0	13.6	1363997378.3	5.4	1034707420.8	8.3
LA-VLBA	7611	-1449752196.4	.7	-4975298558.2	2.1	3709123901.0	2.0
LEONRDOK	7292	-522231474.6	3.7	-5145676866.9	19.1	3720152291.8	12.7
MAMMOTHL	7259	-2448246655.2	27.8	-4426738309.8	50.7	3875435856.1	42.2
MARCUS	7310	-5227446614.4	15.4	2551379335.9	9.0	2607604770.4	14.2
MARPOINT	7217	1106629486.8	1.3	-4882907201.9	3.9	3938086894.6	3.2
MATERA	7243	4641939194.8	9.9	1393002828.6	3.8	4133325457.1	10.2
MCD 7850	7850	-1330008044.2	2.8	-5328391558.4	10.5	3236502678.8	6.6
MEDICINA	7230	4461370290.6	2.6	919596605.9	1.3	4449559079.2	5.0
METSHOVI	7601	2890653044.3	15.6	1310295176.7	7.1	5513958630.8	23.5
MILESMON	7038	-1204438885.3	9.2	-4239211089.4	30.1	4596266015.3	30.1
MIYAZAKI	7312	-3582767647.0	109.2	4052034066.4	71.7	3369020601.5	112.3
MIZUSGSI	7314	-3862411670.8	43.1	3105015111.2	17.4	4001944924.6	23.9
MOJ 7288	7288	-2356493990.6	5.8	-4646607658.4	11.0	3668426570.1	8.4
MOJAVE12	7222	-2356170869.6	.5	-4646755861.6	1.6	3668470552.9	2.2
MON PEAK	7274	-2386289308.0	3.0	-4802346512.8	6.2	3444883944.6	4.8
NOBEY 6M	7244	-3871168046.6	9.8	3428274058.7	8.7	3723697683.6	13.1
NOE	7279	-2658150264.9	7.4	-693821872.5	3.5	5737236587.9	15.1
NOTO	7547	4934563420.1	4.6	1321201060.5	2.1	3806484313.0	6.2

(continued)

VLBI Site positions at January 1.5, 1989							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
NRAO 140	7204	882880069.9	.9	-4924482326.5	3.2	3944130599.8	2.6
NRAO85 3	7214	882325760.0	.9	-4925137990.2	2.5	3943397579.5	2.1
OCOTILLO	7270	-2335601061.9	18.0	-4832244069.1	35.3	3434392563.3	25.8
ONSALA60	7213	3370606295.7	2.0	711917318.3	1.2	5349830622.3	4.4
OVR 7853	7853	-2410421106.5	5.1	-4477800382.4	9.4	3838690255.9	7.8
OVRO 130	7207	-2409600626.1	1.5	-4478349515.7	3.1	3838603158.7	3.3
PBLOSSOM	7254	-2464070801.3	10.7	-4649425603.2	19.9	3593905640.2	15.0
PENTICTN	7283	-2058840279.2	7.8	-3621286374.4	12.3	4814420703.5	16.5
PIETOWN	7234	-1640953538.8	.7	-5014816005.3	1.7	3575411878.3	2.0
PINFLATS	7256	-2369635847.5	5.5	-4761324860.9	10.6	3511116117.1	8.3
PLATTVIL	7258	-1240708016.5	1.9	-4720454342.2	5.9	4094481600.3	5.2
PRESIDIO	7252	-2707704745.2	5.4	-4257609569.4	8.6	3888374121.8	7.8
PRESIDIO	7252 (1)	-2707704730.3	7.1	-4257609552.8	11.0	3888374092.2	10.0
PT REYES	7251	-2732332987.2	3.3	-4217634829.3	5.2	3914491024.8	5.2
PVERDES	7268	-2525452697.4	5.5	-4670035615.7	10.1	3522886736.1	7.8
QUINCY	7221	-2517230764.9	3.1	-4198595189.8	5.4	4076531220.9	5.3
RICHMOND	7219	961258178.9	1.0	-5674090048.3	1.6	2740533702.5	1.2
ROBLED32	1561	4849245410.0	46.5	-360278363.1	9.2	4114884400.7	40.4
SANPAULA	7255	-2554476566.8	6.1	-4608627319.7	10.8	3582138271.0	8.4
SANTIA12	1404	1769693020.5	8.6	-5044504422.5	16.1	-3468435140.9	9.2
SEATTLE1	7229	-2295347857.3	13.8	-3638029440.1	90.0	4693408646.6	89.9
SESHAN25	7227	-2831686451.4	5.0	4675733849.9	4.2	3275327801.0	8.8
SEST	7239	1838237926.5	9.4	-5258699188.3	17.3	-3100588927.8	8.7
SHANGHAI	7226	-2847697810.0	109.4	4659872758.8	96.9	3283958736.6	87.5
SINTOTU	7315	-3642141644.2	84.3	2861496663.8	80.8	4370361731.8	61.1
SNDPOINT	7280	-3425461736.9	6.1	-1214669084.2	3.6	5223858214.7	9.7
SOURDOGH	7281	-2419993333.1	12.1	-1664228706.4	9.4	5643538200.6	28.0
SOURDOGH	7281 (2)	-2419993323.0	4.7	-1664228734.1	3.8	5643538259.2	10.7
TIJIMA	7316	-4489356511.3	112.5	3482989601.1	124.5	2887931188.3	71.8
TROMSONO	7602	2102904345.4	6.4	721602395.6	4.7	5958201242.2	14.2
TRYSILNO	7607	2988029411.5	5.2	655956932.9	2.4	5578668984.9	9.9
TSUKUBA	7311	-3957172709.1	15.3	3310237980.1	13.9	3737708980.1	17.0
USUDA64	7246	-3855355147.6	33.1	3427427691.1	29.2	3740971326.2	38.7
VERNAL	7290	-1631473180.9	3.5	-4589128895.4	8.5	4106759823.6	7.2
VICTORIA	7289	-2341309961.9	10.4	-3539083832.4	15.7	4745768312.0	20.1
VNDNBERG	7223	-2678094638.5	.9	-4525450761.8	2.1	3597410113.2	2.7
WESTFORD	7209 ref	1492206788.2	.0	-4458130529.1	.0	4296015444.7	.0
WETTZELL	7224	4075540174.6	2.0	931735068.3	1.1	4801629259.1	4.6
WTHORSE	7284	-2215213397.4	25.4	-2209261513.7	22.1	5540292358.5	53.1
WTHORSE	7284 (2)	-2215213511.1	4.8	-2209261615.1	4.8	5540292544.0	11.0
YAKATAGA	7277	-2529744076.5	10.8	-1942091281.9	8.9	5505027936.3	22.5
YAKATAGA	7277 (2)	-2529744093.3	5.0	-1942091236.4	4.3	5505027797.3	10.6
YELLOWKN	7285	-1224124375.6	5.4	-2689530615.9	11.5	5633555252.1	23.9
YLOW7296	7296	-1224399299.9	1.9	-2689273199.3	3.1	5633620217.9	5.0
YUMA	7894	-2196777809.2	4.5	-4887337033.0	9.9	3448425181.9	7.2

Notes:

- (1) Positions after the October 1989 Loma Prieta earthquake extrapolated to the site reference epoch.
 - (2) Positions after the winter 1987-88 Gulf of Alaska earthquakes extrapolated to the site reference epoch.
- ref Reference station which defines the coordinate system origin.

Table 5.12

VLBI Site positions at January 1.5, 1990							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
ALGOPARK	7282	918034928.9	.5	-4346132251.5	1.6	4561971075.5	1.6
AUSTINTX	7271	-737793710.3	3.7	-5459892246.3	16.1	3202990411.4	9.5
BERMUDA	7294	2307209591.3	8.3	-4874215880.0	27.9	3394317845.4	19.1
BLKBUTTE	7269	-2306306852.9	10.8	-4787914406.3	22.1	3515736358.6	15.7
BLOMIND	7291	302384552.1	21.7	-4941699049.2	47.5	4007908419.3	37.1
BREST	7604	4228877323.2	11.1	-333104365.6	2.5	4747180887.6	12.0
CARNUSTY	7603	3526416591.0	15.4	-171421270.9	3.9	5294098748.5	20.9
CARROLGA	7228	453520718.5	9.2	-5300506774.4	34.2	3507207368.2	20.6
CHLBOLTN	7215	4008310284.8	7.5	-100650933.9	3.7	4943794678.1	9.8
DEADMANL	7267	-2336819559.1	27.6	-4732586950.3	52.3	3570329928.2	37.5
DSS15	7231	-2353538656.9	5.7	-4641649502.1	12.1	3676669950.7	13.9
DSS45	1642	-4460934953.5	8.0	2682765841.4	8.7	-3674381554.9	8.7
DSS65	1665	4849336883.4	3.9	-360488994.6	1.7	4114748688.3	5.5
EFLSBERG	7203	4033947697.4	3.6	486990330.4	1.6	4900430671.4	5.9
ELY	7286	-2077236205.2	4.9	-4486712689.3	10.6	4018753687.0	9.0
FD-VLBA	7613	-1324008995.5	5.3	-5332181916.1	11.5	3231962413.2	8.3
FLAGSTAF	7261	-1923992573.6	6.1	-4850854499.5	14.4	3658589238.8	11.4
FORT ORD	7266	-2697026681.5	9.4	-4354393212.4	15.1	3788077600.7	13.0
FORTORDS	7241	-2699840173.6	6.9	-4359126985.7	11.1	3781050948.9	9.2
FORTORDS	7241 (1)	-2699840149.7	3.6	-4359126962.9	5.9	3781050986.9	5.4
FTD	7900	-1324227848.9	3.6	-5332063037.4	12.7	3232022990.8	7.7
GILCREEK	7225	-2281547031.4	1.5	-1453645017.1	2.3	5756993165.0	4.0
GOLDVENU	1513	-2351129023.4	1.7	-4655477048.5	3.3	3660956840.8	3.5
GORF7102	7102	1130686673.3	2.4	-4831353011.2	8.3	3994110819.0	6.9
GRASSE	7605	4581697891.9	13.0	556125562.3	3.7	4389351333.2	13.5
HALEAKAL	7120	-5465998373.7	14.0	-2404408358.0	7.8	2242228465.7	8.1
HARTRAO	7232	5085442957.0	7.0	2668263337.7	7.5	-2768697178.8	7.3
HATCREEK	7218	-2523969826.7	.9	-4123506327.8	2.3	4147752529.5	2.8
HAYSTACK	7205	1492404913.1	.3	-4457266536.7	.7	4296881680.0	.7
HOBART26	7242	-3950236255.4	8.5	2522347636.2	9.4	-4311562851.0	8.9
HOHENFRG	7600	3778215120.6	6.0	698644601.5	2.4	5074053508.7	8.1
JPL MV1	7263	-2493305922.0	8.8	-4655197511.6	16.1	3565519334.8	12.2
KASHIM34	1857	-3997649077.1	4.2	3276690817.7	3.0	3724278899.6	8.9
KASHIMA	1856	-3997892096.3	4.1	3276581324.3	2.8	3724118292.6	8.9
KAUAI	1311	-5543845885.3	2.1	-2054563969.4	3.7	2387813832.3	5.2
KODIAK	7278	-3026940033.0	6.7	-1575911751.2	4.4	5370362431.4	11.7
KWAJAL26	4968	-6143536282.5	17.6	1363997443.9	6.8	1034707449.7	10.0
LA-VLBA	7611	-1449752211.2	.7	-4975298559.0	2.1	3709123894.2	2.0
LEONRDOK	7292	-522231489.5	3.7	-5145676867.8	19.1	3720152288.5	12.7
MAMMOTEL	7259	-2448246670.5	34.4	-4426738310.5	62.5	3875435845.8	52.0
MARCUS	7310	-5227446574.6	15.4	2551379394.5	9.0	2607604792.9	14.2
MARPOINT	7217	1106629471.2	1.5	-4882907203.1	4.7	3938086897.5	3.8
MATERA	7243	4641939179.9	6.5	1393002848.2	2.7	4133325467.3	8.0
MCD 7850	7850	-1330008057.2	2.8	-5328391559.0	10.5	3236502672.4	6.6
MEDICINA	7230	4461370276.4	2.7	919596625.2	1.5	4449559089.4	5.5
METSHOVI	7601	2890653026.2	15.6	1310295191.9	7.1	5513958636.7	23.5
MILESMON	7038	-1204438903.3	9.2	-4239211090.5	30.1	4596266009.6	30.1
MIYAZAKI	7312	-3582767668.8	109.2	4052034058.0	71.7	3369020588.4	112.3
MIZUSGSI	7314	-3862411685.4	43.1	3105015110.8	17.4	4001944910.9	23.9
MOJ 7288	7288	-2356494005.1	5.8	-4646607659.0	11.0	3668426560.0	8.4
MOJAVE12	7222	-2356170884.2	.4	-4646755862.2	1.9	3668470542.8	2.3
MON PEAK	7274	-2386289340.6	4.0	-4802346482.5	8.2	3444883964.3	6.0
NOBEY 6M	7244	-3871168060.1	9.8	3428274058.3	8.7	3723697670.0	13.1
NOME	7279	-2658150286.6	8.8	-693821873.6	4.1	5737236577.7	18.4
NOTO	7547	4934563406.2	3.6	1321201080.6	1.9	3806484323.9	6.1

(continued)

VLBI Site positions at January 1.5, 1990							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
NRAO 140	7204	882880054.2	1.0	-4924482327.7	3.5	3944130601.8	2.9
NRAO85 3	7214	882325744.4	.6	-4925137991.4	1.6	3943397581.5	1.3
OCOTILLO	7270	-2335601094.9	18.0	-4832244039.4	35.3	3434392582.8	25.8
ONSALA60	7213	3370606279.9	2.3	711917334.9	1.4	5349830630.0	5.1
OVR 7853	7853	-2410421121.7	5.2	-4477800383.0	9.6	3838690255.7	7.9
OVRO 130	7207	-2409600641.3	1.8	-4478349516.3	3.7	3838603148.5	3.7
PBLOSSOM	7254	-2464070815.6	13.7	-4649425603.8	25.6	3593905629.7	19.3
PENTICTN	7283	-2058840297.9	8.9	-3621286375.4	13.8	4814420694.8	18.8
PIETOWN	7234	-1640953553.0	.5	-5014816005.9	1.7	3575411870.8	1.9
PINFLATS	7256	-2369635879.4	7.3	-4761324830.6	14.2	3511116136.7	10.9
PLATTVIL	7258	-1240708032.6	2.5	-4720454343.1	7.8	4094481594.4	6.7
PRESIDIO	7252	-2707704760.5	7.5	-4257609570.0	11.9	3888374110.5	10.7
PRESIDIO (1)	7252	-2707704745.6	5.8	-4257609553.4	9.0	3888374080.9	8.4
PT REYES	7251	-2732333011.3	4.1	-4217634794.6	6.4	3914491045.3	6.3
PVERDES	7268	-2525452728.2	7.2	-4670035583.8	13.0	3522886756.3	10.0
QUINCY	7221	-2517230780.9	4.1	-4198595190.4	7.0	4076531210.3	6.7
RICHMOND	7219	961258167.7	1.0	-5674090049.2	1.6	2740533704.6	1.2
ROBLED32	1561	4849245400.9	48.1	-360278342.9	9.5	4114884413.2	42.4
SANPAULA	7255	-2554476596.7	7.9	-4608627287.4	13.9	3582138291.3	10.8
SANTIA12	1404	1769693021.4	8.6	-5044504427.9	16.1	-3468435132.7	9.2
SEATTLE1	7229	-2295347875.5	10.7	-3638029441.0	37.2	4693408637.0	39.2
SESHAN25	7227	-2831686475.0	5.0	4675733844.0	3.4	3275327789.1	9.9
SEST	7239	1838237926.6	9.4	-5258699193.3	17.3	-3100588919.2	8.7
SHANGHAI	7226	-2847697833.5	109.5	4659872752.8	97.0	3283958724.7	87.8
SINTOTU	7315	-3642141660.1	84.3	2861496663.2	80.8	4370361718.8	61.1
SNDPOINT	7280	-3425461756.7	7.4	-1214669085.0	4.0	5223858201.5	11.5
SOURDOGH	7281	-2419993354.6	15.9	-1664228707.5	12.2	5643538191.1	36.6
SOURDOGH (2)	7281	-2419993344.5	5.9	-1664228735.2	4.7	5643538249.6	13.3
TITIJIMA	7316	-4489356497.2	112.5	3482989618.1	124.5	2887931189.7	71.8
TROMSONO	7602	2102904328.1	6.4	721602408.6	4.7	5958201246.7	14.2
TRYSILNO	7607	2988029395.4	5.2	655956948.5	2.4	5578668991.7	9.9
TSUKUBA	7311	-3957172722.6	21.3	3310237979.8	19.2	3737708966.1	23.0
USUDA64	7246	-3855355168.2	33.1	3427427682.2	29.2	3740971313.0	38.7
VERNAL	7290	-1631473197.1	4.4	-4589128896.2	11.1	4106759816.3	9.7
VICTORIA	7289	-2341309980.3	10.4	-3539083833.3	15.7	4745768302.3	20.1
VNDNBERG	7223	-2678094667.5	1.2	-4525450728.2	2.6	3597410134.0	2.9
WESTFORD	7209 ref	1492206771.4	.0	-4458130530.5	.0	4296015449.2	.0
WETTZELL	7224	4075540159.6	2.4	931735086.7	1.3	4801629268.4	5.3
WETHORSE	7284	-2215213418.6	33.0	-2209261514.8	29.6	5540292349.6	71.1
WETHORSE (2)	7284	-2215213532.3	9.4	-2209261616.2	9.0	5540292535.1	21.1
YAKATAGA	7277	-2529744097.5	14.7	-1942091283.0	12.0	5505027926.3	30.5
YAKATAGA (2)	7277	-2529744114.4	5.7	-1942091237.4	4.9	5505027787.3	12.0
YELLOWKN	7285	-1224124397.2	5.4	-2689530617.2	11.5	5633555246.8	23.9
YLOW7296	7296	-1224399321.6	1.9	-2689273200.6	3.1	5633620212.6	5.0
YUMA	7894	-2196777823.0	6.5	-4887337033.5	14.3	3448425172.3	10.1

Notes:

- (1) Positions after the October 1989 Loma Prieta earthquake extrapolated to the site reference epoch.
- (2) Positions after the winter 1987-88 Gulf of Alaska earthquakes extrapolated to the site reference epoch.
- ref Reference station which defines the coordinate system origin.

Table 5.13

VLBI Site positions at January 1.5, 1991							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
ALGOPARK	7282	918034911.0	.6	-4346132252.9	1.7	4561971077.8	1.7
AUSTINTX	7271	-737793723.3	3.7	-5459892247.0	16.1	3202990407.1	9.5
BERMUDA	7294	2307209577.8	8.3	-4874215881.3	27.9	3394317852.8	19.1
BLKBUTTE	7269	-2306306866.9	14.1	-4787914406.8	28.9	3515736348.7	20.6
BLOOMIND	7291	302384536.3	21.7	-4941699050.3	47.5	4007908419.1	37.1
BREST	7604	4228877312.5	11.1	-333104346.8	2.5	4747180898.6	12.0
CARNUSTY	7603	3526416578.3	15.4	-171421253.9	3.9	5294098757.5	20.9
CARROLGA	7228	453520704.5	9.2	-5300506775.5	34.2	3507207368.5	20.6
CHLBOLTN	7215	4008310272.7	7.5	-100650915.7	3.7	4943794688.3	9.8
DEADMANL	7267	-2336819573.3	38.0	-4732586950.9	72.3	3570329918.2	51.4
DSS15	7231	-2353538671.4	9.4	-4641649502.7	19.7	3676669940.6	21.9
DSS45	1642	-4460934990.8	8.4	2682765842.2	10.0	-3674381509.1	10.1
DSS65	1665	4849336874.3	6.9	-360488974.4	2.0	4114748700.8	8.3
EFLSBERG	7203	4033947683.6	4.1	486990348.7	1.8	4900430681.0	6.5
ELY	7286	-2077236221.1	6.7	-4486712690.0	14.6	4018753678.0	12.2
FD-VLBA	7613	-1324009008.6	5.3	-5332181916.8	11.5	3231962406.8	8.3
FLAGSTAF	7261	-1923992588.2	7.8	-4850854500.1	18.3	3658589230.3	14.5
FORT ORD	7266	-2697026707.8	11.9	-4354393178.3	19.1	3788077621.2	16.5
FORTORDS	7241	-2699840199.9	8.4	-4359126951.6	13.5	3781050969.5	11.4
FORTORDS	7241 (1)	-2699840176.0	4.1	-4359126928.8	6.9	3781051007.5	6.2
FTD	7900 7900	-1324227861.9	3.6	-5332063038.0	12.7	3232022984.4	7.7
GILLCREEK	7225	-2281547053.3	1.7	-1453645018.2	2.6	5756993156.1	4.6
GOLDVENU	1513	-2351129037.9	1.9	-4655477049.0	3.9	3660956830.8	3.9
GORF7102	7102	1130686657.5	1.7	-4831353012.4	6.0	3994110822.0	4.8
GRASSE	7605	4581697879.1	13.0	556125581.9	3.7	4389351344.1	13.5
HALEAKAL	7120	-5465998387.4	14.0	-2404408297.5	8.1	2242228497.2	8.3
HARTRAO	7232	5085442955.1	7.6	2668263361.1	8.5	-2768697159.9	8.3
HATCREEK	7218	-2523969843.0	1.2	-4123506328.5	2.9	4147752518.9	3.2
HAYSTACK	7205	1492404896.2	.4	-4457266538.1	.8	4296881684.4	.9
HOBART26	7242	-3950236295.0	8.5	2522347645.6	10.6	-4311562809.2	9.9
HOHENFRG	7600	3778215105.7	6.0	698644619.1	2.4	5074053517.4	8.1
JFL MV1	7263	-2493305952.5	10.9	-4655197480.0	19.9	3565519354.8	15.1
KASHIM34	1857	-3997649090.6	4.8	3276690817.4	3.4	3724278885.4	10.4
KASHIMA	1856	-3997892109.8	4.9	3276581324.0	3.3	3724118278.4	10.4
KAUAI	1311	-5543845894.6	2.0	-2054563907.9	4.3	2387813863.6	5.6
KODIAK	7278	-3026940053.4	9.5	-1575911752.1	6.0	5370362419.6	16.4
KWAJAL26	4968	-6143536263.1	21.7	1363997509.6	8.2	1034707478.6	12.0
LA-VLBA	7611	-1449752225.9	.7	-4975298559.7	2.1	3709123887.5	2.0
LEONRDOK	7292	-522231504.3	3.7	-5145676868.7	19.1	3720152285.1	12.7
MAMMOTHL	7259	-2448246685.8	41.0	-4426738311.1	74.6	3875435835.4	62.0
MARCUS	7310	-5227446534.8	15.4	2551379453.1	9.0	2607604815.3	14.2
MARPOINT	7217	1106629455.6	1.8	-4882907204.3	5.9	3938086900.3	4.7
MATERA	7243	4641939165.0	4.2	1393002867.7	2.1	4133325477.5	7.0
MCD 7850	7850	-1330008070.3	2.8	-5328391559.7	10.5	3236502666.0	6.6
MEDICINA	7230	4461370262.2	3.3	919596644.4	1.8	4449559099.6	6.2
METSHOVI	7601	2890653008.1	15.6	1310295207.1	7.1	5513958642.6	23.5
MILESMON	7038	-1204438921.2	9.2	-4239211091.5	30.1	4596266004.0	30.1
MIYAZAKI	7312	-3582767690.5	109.2	4052034049.7	71.7	3369020575.2	112.3
MIZUSGSI	7314	-3862411699.9	43.1	3105015110.4	17.4	4001944897.2	23.9
MOJ 7288	7288	-2356494019.7	5.8	-4646607659.5	11.1	3668426549.9	8.5
MOJAVE12	7222	-2356170898.7	.5	-4646755862.8	2.2	3668470532.7	2.4
MON PEAK	7274	-2386289373.2	5.0	-4802346452.2	10.4	3444883983.9	7.5
NOBEY 6M	7244	-3871168073.5	9.8	3428274058.0	8.7	3723697656.3	13.1
NOME	7279	-2658150308.3	10.8	-693821874.7	4.9	5737236567.5	22.5
NOTO	7547	4934563392.3	4.3	1321201100.8	2.3	3806484334.9	6.9

(continued)

VLBI Site positions at January 1.5, 1991							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
NRAO 140	7204	882880038.6	1.1	-4924482328.9	3.9	3944130603.8	3.2
NRAO85 3	7214	882325728.7	.4	-4925137992.6	1.1	3943397583.6	.9
OCOTILLO	7270	-2335601127.9	18.0	-4832244009.6	35.3	3434392602.2	25.8
ONSALA60	7213	3370606264.2	2.8	711917351.5	1.7	5349830637.7	5.9
OVR 7853	7853	-2410421136.9	5.3	-4477800383.6	9.9	3838690245.5	8.2
OVRO 130	7207	-2409600656.4	2.0	-4478349517.0	4.4	3838603138.3	4.2
PBLOSSOM	7254	-2464070829.9	16.9	-4649425604.3	31.6	3593905619.2	23.7
PENTICTN	7283	-2058840316.6	10.8	-3621286376.3	16.6	4814420686.1	22.7
PIETOWN	7234	-1640953567.3	.6	-5014816006.6	2.0	3575411863.3	2.0
PINFLATS	7256	-2369635911.3	9.3	-4761324800.4	18.2	3511116156.2	13.9
PLATTVIL	7258	-1240708048.8	3.3	-4720454344.0	10.0	4094481588.5	8.6
PRESIDIO	7252	-2707704775.8	9.9	-4257609570.6	15.7	3888374099.1	13.9
PRESIDIO	7252 (1)	-2707704760.9	5.6	-4257609554.0	8.7	3888374069.6	8.3
PT REYES	7251	-2732333035.5	5.6	-4217634760.0	8.6	3914491065.8	8.3
PVERDES	7268	-2525452759.1	10.0	-4670035551.9	18.1	3522886776.4	13.8
QUINCY	7221	-2517230796.9	5.3	-4198595191.1	9.0	4076531199.7	8.6
RICHMOND	7219	961258156.4	1.0	-5674090050.1	1.6	2740533706.7	1.2
ROBED32	1561	4849245391.8	49.9	-360278322.7	9.8	4114884425.7	44.8
SANPAULA	7255	-2554476626.6	10.7	-4608627255.1	18.9	3582138311.5	14.6
SANTIA12	1404	1769693022.3	8.6	-5044504433.3	16.1	-3468435124.4	9.2
SEATTLE1	7229	-2295347893.7	13.0	-3638029441.9	30.2	4693408627.4	34.6
SESHAN25	7227	-2831686498.5	5.9	4675733838.0	4.1	3275327777.2	11.7
SEST	7239	1838237926.7	9.4	-5258699198.4	17.3	-3100588910.6	8.7
SHANGHAI	7226	-2847697857.1	109.7	4659872746.8	97.3	3283958712.7	88.2
SINTOTU	7315	-3642141676.1	84.3	2861496662.6	80.8	4370361705.9	61.1
SNDPOINT	7280	-3425461776.6	10.7	-1214669085.8	5.7	5223858188.3	16.3
SOURDOGH	7281	-2419993376.1	19.7	-1664228708.6	15.1	5643538181.5	45.5
SOURDOGH	7281 (2)	-2419993366.0	8.8	-1664228736.3	6.9	5643538240.1	20.2
TITIJIMA	7316	-4489356483.1	112.5	3482989635.1	124.5	2887931191.1	71.8
TROMSONO	7602	2102904310.8	6.4	721602421.7	4.7	5958201251.3	14.2
TRYSILNO	7607	2988029379.3	5.2	655956964.0	2.4	5578668998.5	9.9
TSUKUBA	7311	-3957172736.1	28.0	3310237979.4	25.1	3737708952.1	29.7
USUDA64	7246	-3855355188.9	33.1	3427427673.4	29.2	3740971299.8	38.7
VERNAL	7290	-1631473213.3	6.2	-4589128897.0	15.6	4106759808.9	13.7
VICTORIA	7289	-2341309998.7	10.4	-3539083834.1	15.7	4745768292.5	20.1
VNDNBERG	7223	-2678094696.4	1.5	-4525450694.6	3.3	3597410154.7	3.2
WESTFORD	7209 ref	1492206754.5	.0	-4458130531.9	.0	4296015453.6	.0
WETTZEIL	7224	4075540144.5	2.9	931735105.0	1.6	4801629277.6	6.0
WHTHORSE	7284	-2215213439.7	41.0	-2209261515.9	37.3	5540292340.7	89.7
WHTHORSE	7284 (2)	-2215213553.5	17.4	-2209261617.3	16.5	5540292526.2	39.0
YAKATAGA	7277	-2529744118.5	18.7	-1942091284.0	15.3	5505027916.2	39.0
YAKATAGA	7277 (2)	-2529744135.4	8.8	-1942091238.5	7.4	5505027777.3	18.4
YELLOWKN	7285	-1224124418.8	5.4	-2689530618.5	11.5	5633555241.4	23.9
YLOW7296	7296	-1224399343.2	1.9	-2689273201.9	3.1	5633620207.3	5.0
YUMA	7894	-2196777836.7	8.5	-4887337034.1	18.8	3448425162.8	13.3

Notes:

- (1) Positions after the October 1989 Loma Prieta earthquake extrapolated to the site reference epoch.
 - (2) Positions after the winter 1987-88 Gulf of Alaska earthquakes extrapolated to the site reference epoch.
- ref Reference station which defines the coordinate system origin.

Table 5.14

VLBI Site positions at January 1.5, 1992							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
ALGOPARK	7282	918034893.1	.7	-4346132254.2	2.2	4561971080.1	2.2
AUSTINTX	7271	-737793736.2	3.7	-5459892247.7	16.1	3202990402.9	9.5
BERMUDA	7294	2307209564.2	8.3	-4874215882.5	27.9	3394317860.2	19.1
BLKBUTTE	7269	-2306306880.9	17.5	-4787914407.4	35.9	3515736338.7	25.5
BLOOMIND	7291	302384520.4	21.7	-4941699051.4	47.5	4007908418.9	37.1
BREST	7604	4228877301.7	11.1	-333104328.0	2.5	4747180909.5	12.0
CARNUSTY	7603	3526416565.6	15.4	-171421236.8	3.9	5294098766.5	20.9
CARROLGA	7228	453520690.4	9.2	-5300506776.5	34.2	3507207368.8	20.6
CHLBOLTN	7215	4008310260.7	7.5	-100650897.4	3.7	4943794698.4	9.8
DEADMANL	7267	-2336819587.5	48.5	-4732586951.4	92.5	3570329908.1	65.6
DSS15	7231	-2353538686.0	13.2	-4641649503.3	27.6	3676669930.6	30.1
DSS45	1642	-4460935028.1	10.3	2682765843.0	12.0	-3674381463.2	11.9
DSS65	1665	4849336865.2	10.2	-360488954.2	2.6	4114748713.3	11.7
EFLSBERG	7203	4033947669.7	4.6	486990367.0	2.1	4900430690.6	7.3
ELY	7286	-2077236236.9	8.6	-4486712690.8	18.9	4018753669.0	15.7
FD-VLBA	7613	-1324009021.6	5.3	-5332181917.4	11.5	3231962400.4	8.3
FLAGSTAF	7261	-1923992602.7	9.6	-4850854500.8	22.6	3658589221.8	17.9
FORT ORD	7266	-2697026734.0	14.6	-4354393144.2	23.4	3788077641.8	20.1
FORTORDS	7241	-2699840226.2	10.4	-4359126917.5	16.9	3781050990.0	14.3
FORTORDS	7241 (1)	-2699840202.3	6.1	-4359126894.6	10.1	3781051028.1	8.9
FTD	7900	-1324227875.0	3.6	-5332063038.6	12.7	3232022978.0	7.7
GILCREEK	7225	-2281547075.2	2.0	-1453645019.4	3.0	5756993147.1	5.3
GOLDVENU	1513	-2351129052.4	2.3	-4655477049.6	4.5	3660956820.7	4.4
GORF7102	7102	1130686641.6	2.4	-4831353013.6	8.8	3994110824.9	6.9
GRASSE	7605	4581697866.3	13.0	556125601.5	3.7	4389351355.0	13.5
HALEKAL	7120	-5465998401.1	14.0	-2404408237.0	8.4	2242228528.6	8.7
HARTRAO	7232	5085442953.1	9.1	2668263384.5	9.8	-2768697140.9	9.4
HATCREEK	7218	-2523969859.3	1.5	-4123506329.2	3.5	4147752508.4	3.7
HAYSTACK	7205	1492404879.3	.5	-4457266539.4	1.0	4296881688.8	1.1
HOBERT26	7242	-3950236334.7	10.5	2522347655.0	12.6	-4311562767.4	12.1
HOHENFRG	7600	3778215090.7	6.0	698644636.8	2.4	5074053526.2	8.1
JPL MV1	7263	-2493305983.0	13.1	-4655197448.4	23.9	3565519374.8	18.1
KASHIM34	1857	-3997649104.0	5.6	3276690817.1	3.8	3724278871.3	12.0
KASHIMA	1856	-3997892123.3	5.7	3276581323.7	3.8	3724118264.3	12.0
KAUAI	1311	-5543845903.9	1.9	-2054563846.3	5.0	2387813894.9	6.1
KODIAK	7278	-3026940073.9	12.7	-1575911753.0	8.0	5370362407.8	21.8
KWAJAL26	4968	-6143536243.6	26.0	1363997575.3	9.7	1034707507.6	14.1
LA-VLBA	7611	-1449752240.7	.7	-4975298560.5	2.1	3709123880.7	2.0
LEONRDOK	7292	-522231519.1	3.7	-5145676869.6	19.1	3720152281.8	12.7
MAMMOTEL	7259	-2448246701.1	47.8	-4426738311.7	86.7	3875435825.0	72.1
MARCUS	7310	-5227446495.0	15.4	2551379511.7	9.0	2607604837.7	14.2
MARPOINT	7217	1106629440.0	2.2	-4882907205.5	7.2	3938086903.2	5.9
MATERA	7243	4641939150.0	4.7	1393002887.2	2.4	4133325487.6	7.8
MCD 7850	7850	-1330008083.3	2.8	-5328391560.3	10.5	3236502659.6	6.6
MEDICINA	7230	4461370248.1	4.2	919596663.7	2.2	4449559109.8	7.3
METSHOVI	7601	2890652989.9	15.6	1310295222.3	7.1	5513958648.5	23.5
MILESMON	7038	-1204438939.2	9.2	-4239211092.5	30.1	4596265998.3	30.1
MIYAZAKI	7312	-3582767712.3	109.2	4052034041.4	71.7	3369020562.1	112.3
MIZUSGSI	7314	-3862411714.4	43.1	3105015109.9	17.4	4001944883.5	23.9
MOJ 7288	7288	-2356494034.2	5.8	-4646607660.1	11.2	3668426539.8	8.5
MOJAVE12	7222	-2356170913.3	.5	-4646755863.4	2.6	3668470522.6	2.5
MON PEAK	7274	-2386289405.8	6.1	-4802346421.9	12.7	3444884003.6	9.2
NOBEY 6M	7244	-3871168086.9	9.8	3428274057.6	8.7	3723697642.7	13.1
NOME	7279	-2658150330.0	13.1	-693821875.7	5.9	5737236557.4	27.1
NOTO	7547	4934563378.5	6.1	1321201121.0	3.1	3806484345.9	8.4

(continued)

VLBI Site positions at January 1.5, 1992							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
NRAO 140	7204	882880023.0	1.3	-4924482330.1	4.3	3944130605.8	3.6
NRAO85	3 7214	882325713.1	.5	-4925137993.8	1.6	3943397585.6	1.3
OCOTILLO	7270	-2335601160.9	18.0	-4832243979.8	35.3	3434392621.7	25.8
ONSALA60	7213	3370606248.5	3.3	711917368.1	2.0	5349830645.4	6.7
OVR	7853 7853	-2410421152.0	5.4	-4477800384.3	10.2	3838690235.2	8.5
OVRO 130	7207	-2409500671.6	2.3	-4478349517.6	5.1	3838603128.0	4.8
PBLOSSOM	7254	-2464070844.2	20.2	-4649425604.9	37.7	3593905608.7	28.3
PENTICTN	7283	-2058840335.3	13.1	-3621286377.3	20.3	4814420677.4	27.6
PIETOWN	7234	-1640953581.6	.9	-5014816007.3	2.6	3575411855.8	2.3
PINFLATS	7256	-2369635943.1	11.5	-4761324770.1	22.3	3511116175.7	17.0
PLATTVIL	7258	-1240708065.0	4.1	-4720454344.8	12.4	4094481582.6	10.6
PRESIDIO	7252	-2707704791.2	12.3	-4257609571.2	19.6	3888374087.8	17.4
PRESIDIO	7252 (1)	-2707704776.2	6.6	-4257609554.6	10.3	3888374058.3	9.7
PT REYES	7251	-2732333059.6	7.3	-4217634725.3	11.2	3914491086.3	10.8
PVERDES	7268	-2525452789.9	13.3	-4670035520.0	24.0	3522886796.6	18.2
QUINCY	7221	-2517230812.9	6.6	-4198595191.8	11.2	4076531189.2	10.6
RICHMOND	7219	961258145.2	1.0	-5674090050.9	1.6	2740533708.9	1.3
ROBLED32	1561	4849245382.7	51.9	-360278302.5	10.2	4114884438.2	47.2
SANPAULA	7255	-2554476656.5	13.9	-4608627222.8	24.6	3582138331.7	18.8
SANTIA12	1404	1769693023.1	8.6	-5044504438.7	16.1	-3468435116.1	9.2
SEATTLE1	7229	-2295347912.0	18.7	-3638029442.7	81.8	4693408617.8	84.0
SESHAN25	7227	-2831686522.1	7.3	4675733832.1	5.9	3275327765.3	13.8
SEST	7239	1838237926.8	9.4	-5258699203.4	17.3	-3100588902.0	8.7
SHANGHAI	7226	-2847697880.6	109.9	4659872740.8	97.6	3283958700.8	88.7
SINTOTU	7315	-3642141692.1	84.3	2861496662.1	80.8	4370361693.0	61.1
SNDPOINT	7280	-3425461796.4	14.8	-1214669086.6	8.0	5223858175.1	22.4
SOURDOGH	7281	-2419993397.6	23.6	-1664228709.7	18.0	5643538172.0	54.5
SOURDOGH	7281 (2)	-2419993387.5	12.4	-1664228737.4	9.6	5643538230.6	28.4
TITIJIMA	7316	-4489356469.0	112.5	3482989652.1	124.5	2887931192.4	71.8
TROMSONO	7602	2102904293.5	6.4	721602434.7	4.7	5958201255.8	14.2
TRYSILNO	7607	2988029363.1	5.2	655956979.6	2.4	5578669005.3	9.9
TSUKUBA	7311	-3957172749.6	35.0	3310237979.1	31.3	3737708938.1	36.6
USUDA64	7246	-3855355209.5	33.1	3427427664.6	29.2	3740971286.7	38.7
VERNAL	7290	-1631473229.5	8.2	-4589128897.9	20.7	4106759801.6	18.2
VICTORIA	7289	-2341310017.2	10.4	-3539083835.0	15.7	4745768282.8	20.1
VNDNBERG	7223	-2678094725.4	1.9	-4525450661.0	4.0	3597410175.4	3.7
WESTFORD	7209 ref	1492206737.6	.0	-4458130533.2	.0	4296015458.0	.0
WETTZELL	7224	4075540129.4	3.4	931735123.4	1.9	4801629286.9	6.8
WHTHORSE	7284	-2215213460.9	49.1	-2209261517.0	45.2	5540292331.8	108.5
WHTHORSE	7284 (2)	-2215213574.7	25.7	-2209261618.4	24.3	5540292517.2	57.9
YAKATAGA	7277	-2529744139.6	22.9	-1942091285.1	18.7	5505027906.2	47.7
YAKATAGA	7277 (2)	-2529744156.4	12.6	-1942091239.5	10.5	5505027767.2	26.4
YELLOWKN	7285	-1224124440.4	5.4	-2689530619.8	11.5	5633555236.1	23.9
YLOW7296	7296	-1224399364.8	1.9	-2689273203.2	3.1	5633620201.9	5.0
YUMA	7894	-2196777850.5	10.6	-4887337034.6	23.5	3448425153.2	16.6

Notes:

- (1) Positions after the October 1989 Loma Prieta earthquake extrapolated to the site reference epoch.
 - (2) Positions after the winter 1987-88 Gulf of Alaska earthquakes extrapolated to the site reference epoch.
- ref Reference station which defines the coordinate system origin.

Table 5.15

VLBI Site positions at January 1.5, 1993							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
ALGOPARK	7282	918034875.2	.9	-4346132255.6	2.9	4561971082.4	2.9
AUSTINTX	7271	-737793749.2	3.7	-5459892248.5	16.1	3202990398.7	9.5
BERMUDA	7294	2307209550.6	8.3	-4874215883.8	27.9	3394317867.6	19.1
BLKBUTTE	7269	-2306306894.9	21.0	-4787914407.9	43.0	3515736328.8	30.6
BLOOMIND	7291	302384504.5	21.7	-4941699052.5	47.5	4007908418.7	37.1
BREST	7604	4228877290.9	11.1	-333104309.1	2.5	4747180920.4	12.0
CARNUSTY	7603	3526416552.9	15.4	-171421219.7	3.9	5294098775.5	20.9
CARROLGA	7228	453520676.4	9.2	-5300506777.5	34.2	3507207369.1	20.6
CHLBOLTN	7215	4008310248.6	7.5	-100650879.0	3.7	4943794708.5	9.8
DEADMANL	7267	-2336819601.7	59.1	-4732586952.0	113.0	3570329898.1	80.0
DSS15	7231	-2353538700.7	17.0	-4641649503.9	35.5	3676669920.4	38.5
DSS45	1642	-4460935065.5	13.1	2682765843.8	14.4	-3674381417.2	14.1
DSS65	1665	4849336856.1	13.6	-360488933.9	3.2	4114748725.9	15.2
EFLSBERG	7203	4033947655.8	5.2	486990385.4	2.5	4900430700.2	8.2
ELY	7286	-2077236252.8	10.7	-4486712691.5	23.4	4018753660.0	19.4
FD-VLBA	7613	-1324009034.6	5.3	-5332181918.1	11.5	3231962394.0	8.3
FLAGSTAF	7261	-1923992617.3	11.4	-4850854501.5	27.1	3658589213.3	21.4
FORT ORD	7266	-2697026760.2	17.3	-4354393110.0	27.8	3788077662.4	23.9
FORTORDS	7241	-2699840252.6	12.8	-4359126883.3	20.7	3781051010.7	17.6
FORTORDS	7241 (1)	-2699840228.7	8.6	-4359126860.4	14.1	3781051048.7	12.3
FTD	7900 7900	-1324227888.0	3.6	-5332063039.3	12.7	3232022971.6	7.7
GILCREEK	7225	-2281547097.1	2.3	-1453645020.5	3.4	5756993138.1	6.0
GOLDVENU	1513	-2351129067.0	2.6	-4655477050.2	5.3	3660956810.6	4.9
GORF7102	7102	1130686625.8	3.9	-4831353014.9	13.9	3994110827.9	10.9
GRASSE	7605	4581697853.4	13.0	556125621.1	3.7	4389351365.9	13.5
HALEAKAL	7120	-5465998414.9	14.0	-2404408176.3	8.8	2242228560.2	9.0
HARTRAO	7232	5085442951.1	11.0	2668263408.0	11.3	-2768697122.0	10.7
HATCREEK	7218	-2523969875.6	1.9	-4123506329.9	4.2	4147752497.7	4.2
HAYSTACK	7205	1492404862.4	.6	-4457266540.8	1.3	4296881693.3	1.3
HOBERT26	7242	-3950236374.4	13.6	2522347664.4	15.3	-4311562725.5	15.0
HOHENFRG	7600	3778215075.6	6.0	698644654.5	2.4	5074053534.9	8.1
JPL MV1	7263	-2493306013.6	15.3	-4655197416.7	28.0	3565519394.8	21.2
KASHIM34	1857	-3997649117.5	6.4	3276690816.7	4.3	3724278857.1	13.6
KASHIMA	1856	-3997892136.8	6.7	3276581323.4	4.4	3724118250.1	13.7
KAUAI	1311	-5543845913.3	1.8	-2054563784.6	5.6	2387813926.3	6.7
KODIAK	7278	-3026940094.4	16.0	-1575911753.9	10.1	5370362396.0	27.4
KWAJAL26	4968	-6143536224.1	30.4	1363997641.1	11.3	1034707536.6	16.2
LA-VLBA	7611	-1449752255.5	.7	-4975298561.2	2.1	3709123873.9	2.0
LEONRDOK	7292	-522231534.0	3.7	-5145676870.5	19.1	3720152278.5	12.7
MAMMOTEL	7259	-2448246716.5	54.6	-4426738312.3	99.0	3875435814.6	82.3
MARCUS	7310	-5227446455.1	15.4	2551379570.5	9.0	2607604860.2	14.2
MARPOINT	7217	1106629424.4	2.7	-4882907206.8	8.7	3938086906.1	7.1
MATERA	7243	4641939135.1	7.6	1393002906.8	3.4	4133325497.8	10.0
MCD	7850 7850	-1330008096.4	2.8	-5328391561.0	10.5	3236502653.2	6.6
MEDICINA	7230	4461370233.9	5.3	919596683.0	2.7	4449559120.1	8.4
MEISHOVI	7601	2890652971.8	15.6	1310295237.5	7.1	5513958654.4	23.5
MILESMON	7038	-1204438957.2	9.2	-4239211093.5	30.1	4596265992.6	30.1
MIYAZAKI	7312	-3582767734.1	109.2	4052034033.0	71.7	3369020549.0	112.3
MIZUSGSI	7314	-3862411729.0	43.1	3105015109.5	17.4	4001944869.8	23.9
MOJ	7288 7288	-2356494048.8	5.8	-4646607660.7	11.3	3668426529.7	8.6
MOJAVE12	7222	-2356170927.9	.6	-4646755864.0	3.1	3668470512.5	2.8
MON PEAK	7274	-2386289438.5	7.3	-4802346391.5	15.1	3444884023.3	10.8
NOBEY 6M	7244	-3871168100.4	9.8	3428274057.3	8.7	3723697629.0	13.1
NOME	7279	-2658150351.7	15.6	-693821876.8	7.0	5737236547.2	31.9
NOTO	7547	4934563384.6	8.4	1321201141.2	4.0	3806484356.9	10.2

(continued)

VLBI Site positions at January 1.5, 1993							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
NRAO 140	7204	882880007.3	1.4	-4924482331.3	4.8	3944130607.8	4.0
NRAO85 3	7214	882325697.4	.8	-4925137995.0	2.5	3943397587.6	2.1
OCOTILLO	7270	-2335601194.0	18.0	-4832243950.0	35.3	3434392641.2	25.8
ONSALA60	7213	3370606232.7	3.9	711917384.7	2.3	5349830653.1	7.6
OVR 7853	7853	-2410421167.2	5.5	-4477800384.9	10.6	3838690224.9	8.8
OVRO 130	7207	-2409600686.8	2.6	-4478349518.2	5.8	3838603117.7	5.4
PBLOSSOM	7254	-2464070858.5	23.5	-4649425605.4	44.0	3593905598.2	33.0
PENTICTN	7283	-2058840354.0	15.6	-3621286378.2	24.4	4814420668.7	33.0
PIETOWN	7234	-1640953595.9	1.2	-5014816008.0	3.3	3575411848.3	2.7
PINFLATS	7256	-2369635975.1	13.6	-4761324739.8	26.6	3511116195.3	20.2
PLATTVIL	7258	-1240708081.2	4.9	-4720454345.7	15.0	4094481576.7	12.7
PRESIDIO	7252	-2707704806.5	14.9	-4257609571.8	23.6	3888374076.5	20.9
PRESIDIO	7252 (1)	-2707704791.6	8.3	-4257609555.2	13.1	3888374047.0	12.2
PT REYES	7251	-2732333083.8	9.2	-4217634690.5	14.0	3914491106.8	13.4
PVERDES	7268	-2525452820.8	16.8	-4670035488.0	30.2	3522886816.8	22.9
QUINCY	7221	-2517230828.9	8.0	-4198595192.4	13.5	4076531178.6	12.8
RICHMOND	7219	961258133.9	1.0	-5674090051.8	1.6	2740533711.0	1.3
ROBED32	1561	4849245373.6	54.0	-360278282.3	10.5	4114884450.7	49.9
SANPAULA	7255	-2554476686.5	17.3	-4608627190.5	30.7	3582138352.0	23.4
SANTIA12	1404	1769693024.0	8.6	-5044504444.1	16.1	-3468435107.8	9.2
SEATTLE1	7229	-2295347930.3	25.7	-3638029443.6	137.0	4693408608.2	138.4
SESHAN25	7227	-2831686545.8	8.9	4675733826.1	8.0	3275327753.4	16.1
SEST	7239	1838237926.9	9.4	-5258699208.5	17.3	-3100588893.3	8.7
SHANGHAI	7226	-2847697904.2	110.1	4659872734.8	98.0	3283958688.9	89.2
SINTOTU	7315	-3642141708.1	84.3	2861496661.5	80.8	4370361680.0	61.1
SNDPOINT	7280	-3425461816.3	19.2	-1214669087.5	10.5	5223858161.9	28.9
SOURDOGH	7281	-2419993419.1	27.5	-1664228710.8	20.9	5643538162.4	63.6
SOURDOGH	7281 (2)	-2419993409.0	16.2	-1664228738.5	12.4	5643538221.0	37.1
TITIJIMA	7316	-4489356454.9	112.5	3482989669.1	124.5	2887931193.8	71.8
TROMSONO	7602	2102904276.2	6.4	721602447.8	4.7	5958201260.3	14.2
TRYSILNO	7607	2988029347.0	5.2	655956995.2	2.4	5578669012.1	9.9
TSUKUBA	7311	-3957172763.1	42.1	3310237978.8	37.6	3737708924.0	43.8
USUDA64	7246	-3855355230.2	33.1	3427427655.7	29.2	3740971273.5	38.7
VERNAL	7290	-1631473245.7	10.4	-4589128898.7	26.2	4106759794.2	22.9
VICTORIA	7289	-2341310035.6	10.4	-3539083835.9	15.7	4745768273.0	20.1
VNDNBERG	7223	-2678094754.4	2.3	-4525450627.3	4.7	3597410196.2	4.2
WESTFORD	7209 ref	1492206720.7	.0	-4458130534.6	.0	4296015462.5	.0
WETTZELL	7224	4075540114.3	4.0	931735141.8	2.3	4801629296.1	7.7
WETHORSE	7284	-2215213482.2	57.5	-2209261518.1	53.1	5540292322.8	127.6
WETHORSE	7284 (2)	-2215213595.9	34.3	-2209261619.5	32.3	5540292508.3	77.1
YAKATAGA	7277	-2529744160.6	27.1	-1942091286.1	22.1	5505027896.2	56.5
YAKATAGA	7277 (2)	-2529744177.4	16.7	-1942091240.6	13.9	5505027757.2	35.0
YELLOWKN	7285	-1224124462.1	5.4	-2689530621.1	11.5	5633555230.8	23.9
YLOW7296	7296	-1224399386.5	1.9	-2689273204.4	3.1	5633620196.6	5.0
YUMA	7894	-2196777864.3	12.8	-4887337035.2	28.2	3448425143.6	19.9

Notes:

- (1) Positions after the October 1989 Loma Prieta earthquake extrapolated to the site reference epoch.
- (2) Positions after the winter 1987-88 Gulf of Alaska earthquakes extrapolated to the site reference epoch.
- ref Reference station which defines the coordinate system origin.

Table 5.16

VLBI Site positions at January 1.5, 1984							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
ALGOPARK	7282	918034857.4	1.1	-4346132257.0	3.7	4561971084.7	3.6
AUSTINTX	7271	-737793762.1	3.7	-5459892249.2	16.1	3202990394.5	9.5
BERMUDA	7294	2307209537.1	8.3	-4874215885.1	27.9	3394317874.9	19.1
BLKBUTTE	7269	-2306306908.9	24.5	-4787914408.5	50.1	3515736318.8	35.6
BLOOMIND	7291	302384488.6	21.7	-4941699053.6	47.5	4007908418.6	37.1
BREST	7604	4228877280.1	11.1	-333104290.3	2.5	4747180931.3	12.0
CARNUSTY	7603	3526416540.3	15.4	-171421202.7	3.9	5294098784.5	20.9
CARROLGA	7228	453520662.3	9.2	-5300506778.5	34.2	3507207369.4	20.6
CHLBOLTN	7215	4008310236.6	7.5	-100650860.8	3.7	4943794718.7	9.8
DEADMANL	7267	-2336819615.9	69.7	-4732586952.6	133.6	3570329888.0	94.4
DSS15	7231	-2353538715.2	20.8	-4641649504.5	43.5	3676669910.4	46.8
DSS45	1642	-4460935102.7	16.3	2682765844.6	17.0	-3674381371.3	16.4
DSS65	1665	4849336847.0	17.1	-360488913.7	3.8	4114748738.4	18.8
EFLSBERG	7203	4033947642.0	5.9	486990403.7	2.9	4900430709.8	9.1
ELY	7286	-2077236268.6	12.8	-4486712692.2	28.0	4018753651.0	23.2
FD-VLBA	7613	-1324009047.7	5.3	-5332181918.7	11.5	3231962387.6	8.3
FLAGSTAF	7261	-1923992631.9	13.3	-4850854502.1	31.7	3658589204.7	24.9
FORT ORD	7266	-2697026786.5	20.0	-4354393075.9	32.2	3788077682.9	27.7
FORTORDS	7241	-2699840278.9	15.3	-4359126849.2	24.8	3781051031.2	21.1
FORTORDS	7241 (1)	-2699840255.0	11.3	-4359126826.3	18.4	3781051069.3	15.9
FTD 7900	7900	-1324227901.0	3.6	-5332063039.9	12.7	3232022965.2	7.7
GILCREEK	7225	-2281547119.0	2.6	-1453645021.7	3.8	5756993129.2	6.7
GOLDVENU	1513	-2351129081.5	3.0	-4655477050.8	6.0	3660956800.5	5.5
GORF7102	7102	1130686610.0	5.4	-4831353016.1	19.5	3994110830.9	15.5
GRASSE	7605	4581697840.6	13.0	556125640.7	3.7	4389351376.8	13.5
HALEAKAL	7120	-5465998428.6	14.0	-2404408115.8	9.3	2242228591.7	9.4
HARTRAO	7232	5085442949.2	13.3	2668263431.4	12.9	-2768697103.0	12.0
HATCREEK	7218	-2523969891.8	2.3	-4123506330.6	4.9	4147752487.2	4.9
HAYSTACK	7205	1492404845.5	.7	-4457266542.2	1.5	4296881697.7	1.6
HOBART26	7242	-3950236414.1	17.3	2522347673.8	18.2	-4311562683.6	18.4
HOHENFRG	7600	3778215060.6	6.0	698644672.1	2.4	5074053543.7	8.1
JPL MV1	7263	-2493306044.0	17.6	-4655197385.0	32.1	3565519414.8	24.3
KASHIM34	1857	-3997649131.0	7.3	3276690816.4	4.9	3724278842.9	15.3
KASHIMA	1856	-3997892150.2	7.6	3276581323.0	5.0	3724118235.9	15.5
KAUAI	1311	-5543845922.6	1.8	-2054563723.0	6.3	2387813957.6	7.2
KODIAK	7278	-3026940114.8	19.3	-1575911754.9	12.2	5370362384.2	33.2
KWAJAL26	4968	-6143536204.6	34.8	1363997706.8	12.8	1034707565.5	18.4
LA-VLBA	7611	-1449752270.2	.7	-4975298561.9	2.1	3709123867.1	2.0
LEONRDOK	7292	-522231548.8	3.7	-5145676871.4	19.1	3720152275.2	12.7
MAMMOTHL	7259	-2448246731.7	61.5	-4426738313.0	111.3	3875435804.2	92.5
MARCUS	7310	-5227446415.3	15.4	2551379629.1	9.0	2607604882.6	14.2
MARPOINT	7217	1106629408.8	3.1	-4882907208.0	10.2	3938086908.9	8.4
MATERA	7243	4641939120.2	11.0	1393002926.3	4.6	4133325508.0	12.9
MCD 7850	7850	-1330008109.4	2.8	-5328391561.6	10.5	3236502646.8	6.6
MEDICINA	7230	4461370219.7	6.4	919596702.3	3.2	4449559130.3	9.7
METSHOVI	7601	2890652953.7	15.6	1310295252.7	7.1	5513958660.2	23.5
MILESMON	7038	-1204438975.2	9.2	-4239211094.6	30.1	4596265987.0	30.1
MIYAZAKI	7312	-3582767755.9	109.2	4052034024.7	71.7	3369020535.8	112.3
MIZUSGSI	7314	-3862411743.6	43.1	3105015109.1	17.4	4001944856.1	23.9
MOJ 7288	7288	-2356494063.4	5.8	-4646607661.3	11.4	3668426519.6	8.7
MOJAVE12	7222	-2356170942.4	.7	-4646755864.6	3.5	3668470502.4	3.0
MON PEAK	7274	-2386289471.2	8.5	-4802346361.1	17.5	3444884043.0	12.6
NOBEY 6M	7244	-3871168113.8	9.8	3428274056.9	8.7	3723697615.4	13.1
NCME	7279	-2658150373.4	18.2	-693821877.9	8.2	5737236537.0	36.9
NOTO	7547	4934563350.7	10.8	1321201161.3	5.0	3806484367.9	12.3

(continued)

VLBI Site positions at January 1.5, 1994							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
NRAO 140	7204	882879991.7	1.5	-4924482332.5	5.4	3944130609.8	4.4
NRAO85 3	7214	882325681.8	1.2	-4925137996.2	3.6	3943397589.6	2.9
OCOTILLO	7270	-2335601227.0	18.0	-4832243920.2	35.3	3434392660.7	25.8
ONSALA60	7213	3370606217.0	4.5	711917401.3	2.7	5349830660.8	8.5
OVR 7853	7853	-2410421182.4	5.7	-4477800385.5	11.0	3838690214.7	9.2
OVRO 130	7207	-2409600702.0	2.9	-4478349518.8	6.5	3838603107.5	6.0
PBLOSSOM	7254	-2464070872.7	26.9	-4649425606.0	50.2	3593905587.7	37.6
PENTICTN	7283	-2058840372.7	18.3	-3621286379.1	28.8	4814420660.0	38.6
PIETOWN	7234	-1640953610.1	1.5	-5014816008.6	4.0	3575411840.8	3.2
PINFLATS	7256	-2369636006.9	15.8	-4761324709.5	30.9	3511116214.8	23.4
PLATTVIL	7258	-1240708097.3	5.8	-4720454346.6	17.6	4094481570.8	14.9
PRESIDIO	7252	-2707704821.8	17.4	-4257609572.4	27.6	3888374065.2	24.5
PRESIDIO 7252 (1)		-2707704806.9	10.4	-4257609555.8	16.5	3888374035.7	15.1
PT REYES	7251	-2732333108.0	11.1	-4217634655.8	16.9	3914491127.3	16.2
PVERDES	7268	-2525452851.7	20.4	-4670035456.1	36.7	3522886837.0	27.7
QUINCY	7221	-2517230845.0	9.4	-4198595193.1	15.9	4076531168.0	15.0
RICHMOND	7219	961258122.7	1.0	-5674090052.7	1.6	2740533713.1	1.3
ROBLED32	1561	4849245364.5	56.3	-360278262.1	11.0	4114884463.2	52.7
SANPAULA	7255	-2554476716.4	20.7	-4608627158.2	36.9	3582138372.2	28.1
SANTIA12	1404	1769693024.9	8.6	-5044504449.5	16.1	-3468435099.5	9.2
SEATTLE1	7229	-2295347948.5	33.2	-3638029444.5	192.5	4693408598.6	193.4
SESHAN25	7227	-2831686569.3	10.7	4675733820.2	10.3	3275327741.5	18.6
SEST	7239	1838237927.0	9.4	-5258699213.5	17.3	-3100588884.7	8.7
SHANGHAI	7226	-2847697927.8	110.4	4659872728.8	98.4	3283958677.0	89.9
SINTOTU	7315	-3642141724.0	84.3	2861496661.0	80.8	4370361667.1	61.1
SNDPOINT	7280	-3425461836.1	23.6	-1214669088.3	13.0	5223858148.7	35.6
SOURDOGH	7281	-2419993440.6	31.4	-1664228711.9	23.9	5643538152.9	72.6
SOURDOGH 7281 (2)		-2419993430.5	20.0	-1664228739.6	15.3	5643538211.5	46.0
TITIJIMA	7316	-4489356440.9	112.5	3482989686.2	124.5	2887931195.2	71.8
TROMSONO	7602	2102904258.9	6.4	721602460.9	4.7	5958201264.8	14.2
TRYSILNO	7607	2988029330.9	5.2	655957010.8	2.4	5578669018.9	9.9
TSUKUBA	7311	-3957172776.7	49.3	3310237978.4	43.9	3737708910.0	51.0
USUDA64	7246	-3855355250.8	33.1	3427427646.8	29.2	3740971260.3	38.7
VERNAL	7290	-1631473261.9	12.6	-4589128899.5	31.8	4106759786.9	27.7
VICTORIA	7289	-2341310054.0	10.4	-3539083836.8	15.7	4745768263.3	20.1
VNDNBERG	7223	-2678094783.4	2.7	-4525450593.7	5.5	3597410216.9	4.8
WESTFORD	7209 ref	1492206703.8	.0	-4458130536.0	.0	4296015466.9	.0
WETTZELL	7224	4075540099.2	4.6	931735160.1	2.6	4801629305.4	8.5
WETHORSE	7284	-2215213503.4	65.8	-2209261519.2	61.1	5540292313.9	146.7
WETHORSE 7284 (2)		-2215213617.1	42.8	-2209261620.6	40.3	5540292499.4	96.3
YAKATAGA	7277	-2529744181.6	31.3	-1942091287.2	25.6	5505027886.1	65.4
YAKATAGA 7277 (2)		-2529744198.4	20.9	-1942091241.6	17.3	5505027747.2	43.7
YELLOWKN	7285	-1224124483.7	5.4	-2689530622.4	11.5	5633555225.5	23.9
YLOW7296	7296	-1224399408.1	1.9	-2689273205.8	3.1	5633620191.3	5.0
YUMA	7894	-2196777878.1	14.9	-4887337035.7	33.0	3448425134.1	23.2

Notes:

- (1) Positions after the October 1989 Loma Prieta earthquake extrapolated to the site reference epoch.
 - (2) Positions after the winter 1987-88 Gulf of Alaska earthquakes extrapolated to the site reference epoch.
- ref Reference station which defines the coordinate system origin.

Table 5.17

VLBI Site positions at January 1.5, 1995							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
ALGOPARK	7282	918034839.5	1.4	-4346132258.3	4.6	4561971087.0	4.4
AUSTINTX	7271	-737793775.0	3.7	-5459892249.9	16.1	3202990390.2	9.5
BERMUDA	7294	2307209523.5	8.3	-4874215886.4	27.9	3394317882.3	19.1
BLKBUTTE	7269	-2306306922.9	28.0	-4787914409.0	57.3	3515736308.9	40.7
BLOOMIND	7291	302384472.7	21.7	-4941699054.7	47.5	4007908418.4	37.1
BREST	7604	4228877269.3	11.1	-333104271.5	2.5	4747180942.3	12.0
CARNUSTY	7603	3526416527.6	15.4	-171421185.6	3.9	5294098793.5	20.9
CARROLGA	7228	453520648.3	9.2	-5300506779.5	34.2	3507207369.7	20.6
CHLBOLTN	7215	4008310224.6	7.5	-100650842.5	3.7	4943794728.8	9.8
DEADMANL	7267	-2336819630.1	80.4	-4732586953.1	154.1	3570329878.0	108.8
DSS15	7231	-2353538729.8	24.7	-4641649505.1	51.5	3676669900.3	55.1
DSS45	1642	-4460935140.0	19.8	2682765845.5	19.7	-3674381325.5	18.8
DSS65	1665	4849336837.9	20.6	-360488893.6	4.5	4114748750.9	22.5
EFLSBERG	7203	4033947628.1	6.6	486990422.0	3.3	4900430719.4	10.1
ELY	7286	-2077236284.5	14.9	-4486712692.9	32.6	4018753642.0	27.1
FD-VLBA	7613	-1324009060.7	5.3	-5332181919.3	11.5	3231962381.2	8.3
FLAGSTAF	7261	-1923992646.4	15.3	-4850854502.8	36.4	3658589196.2	28.5
FORT ORD	7266	-2697026812.7	22.8	-4354393041.8	36.7	3788077703.5	31.5
FORTORDS	7241	-2699840305.2	18.0	-4359126815.0	29.1	3781051051.8	24.8
FORTORDS	7241 (1)	-2699840281.3	14.0	-4359126792.2	22.7	3781051089.8	19.6
FTD 7900	7900	-1324227914.1	3.6	-5332063040.6	12.7	3232022958.8	7.7
GILCREEK	7225	-2281547140.9	2.9	-1453645022.8	4.3	5756993120.2	7.4
GOLDVENU	1513	-2351129096.1	3.4	-4655477051.4	6.8	3660956790.5	6.1
GORF7102	7102	1130686594.2	7.1	-4831353017.4	25.4	3994110833.9	20.2
GRASSE	7605	4581697827.8	13.0	556125660.3	3.7	4389351387.7	13.5
HALEKAL	7120	-5465998442.3	14.0	-2404408055.3	9.8	2242228623.1	9.9
HARTRAO	7232	5085442947.2	15.7	2668263454.8	14.6	-2768697084.1	13.4
HATCREEK	7218	-2523969908.1	2.7	-4123506331.3	5.6	4147752476.6	5.5
HAYSTACK	7205	1492404828.6	.8	-4457266543.6	1.8	4296881702.1	1.9
HOBART26	7242	-3950236453.7	21.2	2522347683.2	21.3	-4311562641.8	21.9
HOHENFRG	7600	3778215045.7	6.0	698644689.8	2.4	5074053552.4	8.1
JPL MV1	7263	-2493306074.5	19.8	-4655197353.4	36.3	3565519434.8	27.4
KASHIM34	1857	-3997649144.4	8.2	3276690816.1	5.4	3724278828.8	17.0
KASHIMA	1856	-3997892163.7	8.5	3276581322.7	5.6	3724118221.8	17.2
KAUAI	1311	-5543845931.9	1.8	-2054563661.5	7.0	2387813988.9	7.8
KODIAK	7278	-3026940135.3	22.7	-1575911755.8	14.4	5370362372.4	39.0
KWAJAL26	4968	-6143536185.2	39.2	1363997772.5	14.4	1034707594.5	20.6
LA-VLBA	7611	-1448752285.0	.7	-4975298562.7	2.1	3709123860.4	2.0
LEONRDOK	7292	-522231563.6	3.7	-5145676872.3	19.1	3720152271.8	12.7
MAMMOTHL	7259	-2448246747.0	68.3	-4426738313.6	123.7	3875435793.9	102.7
MARCUS	7310	-5227446375.5	15.4	2551379687.7	9.0	2607604905.1	14.2
MARPOINT	7217	1106629393.2	3.6	-4882907209.2	11.8	3938086911.8	9.7
MATERA	7243	4641939105.2	14.7	1393002945.9	5.9	4133325518.2	16.0
MCD 7850	7850	-1330008122.5	2.8	-5328391562.2	10.5	3236502640.4	6.6
MEDICINA	7230	4461370205.6	7.6	919596721.5	3.8	4449559140.5	11.0
METSHOVI	7601	2890652935.6	15.6	1310295267.9	7.1	5513958666.1	23.5
MILESMON	7038	-1204438993.2	9.2	-4239211095.6	30.1	4596265981.3	30.1
MIYAZAKI	7312	-3582767777.7	109.2	4052034016.4	71.7	3369020522.7	112.3
MIZUSGSI	7314	-3862411758.1	43.1	3105015108.6	17.4	4001944842.4	23.9
MOJ 7288	7288	-2356494077.9	5.8	-4646607661.9	11.6	3668426509.5	8.8
MOJAVE12	7222	-2356170957.0	.8	-4646755865.2	4.0	3668470492.3	3.3
MON PEAK	7274	-2386289503.8	9.6	-4802346330.8	20.0	3444884062.7	14.3
NOBEY 6M	7244	-3871168127.3	9.8	3428274056.5	8.7	3723697601.7	13.1
NCME	7279	-2658150395.1	20.9	-693821879.0	9.3	5737236526.8	42.0
NOTO	7547	4934563336.8	13.3	1321201181.5	6.0	3806484378.9	14.5

(continued)

VLBI Site positions at January 1.5, 1995							
Name	Monument	X (mm)	Error (mm)	Y (mm)	Error (mm)	Z (mm)	Error (mm)
NRAO 140	7204	882879976.0	1.7	-4924482333.7	5.9	3944130611.9	4.9
NRAO85 3	7214	882325666.2	1.5	-4925137997.4	4.7	3943397591.6	3.8
OCOTILLO	7270	-2335601259.9	18.0	-4832243890.4	35.3	3434392680.1	25.8
ONSALA60	7213	3370606201.3	5.0	711917417.9	3.0	5349830668.5	9.4
OVR 7853	7853	-2410421197.6	5.8	-4477800386.1	11.4	3838690204.4	9.6
OVRO 130	7207	-2409600717.1	3.3	-4478349519.4	7.3	3838603097.2	6.6
PBLOSSOM	7254	-2464070887.0	30.3	-4649425606.5	56.5	3593905577.2	42.4
PENTICTN	7283	-2058840391.4	21.0	-3621286380.1	33.3	4814420651.3	44.5
PIETOWN	7234	-1640953624.4	1.8	-5014816009.3	4.8	3575411833.3	3.8
PINFLATS	7256	-2369636038.8	18.0	-4761324679.3	35.2	3511116234.3	26.7
PLATTVIL	7258	-1240708113.5	6.6	-4720454347.5	20.2	4094481564.8	17.1
PRESIDIO	7252	-2707704837.2	20.0	-4257609573.0	31.7	3888374053.9	28.2
PRESIDIO	7252 (1)	-2707704822.2	12.7	-4257609556.4	20.2	3888374024.4	18.4
PT REYES	7251	-2732333132.1	13.1	-4217634621.2	19.9	3914491147.8	19.0
PVERDES	7268	-2525452882.5	24.1	-4670035424.2	43.2	3522886857.2	32.6
QUINCY	7221	-2517230861.0	10.9	-4198595193.8	18.3	4076531157.4	17.2
RICHMOND	7219	961258111.5	1.0	-5674090053.6	1.6	2740533715.2	1.4
ROBLED32	1561	4849245355.4	58.7	-360278241.9	11.4	4114884475.7	55.6
SANPAULA	7255	-2554476746.3	24.2	-4608627125.9	43.2	3582138392.4	32.8
SANTIA12	1404	1769693025.8	8.6	-5044504454.9	16.1	-3468435091.2	9.2
SEATTLE1	7229	-2295347966.7	40.8	-3638029445.3	248.1	4693408589.0	248.8
SESHAN25	7227	-2831686592.9	12.6	4675733814.2	12.6	3275327729.6	21.2
SEST	7239	1838237927.1	9.4	-5258699218.6	17.3	-3100588876.1	8.7
SHANGHAI	7226	-2847697951.3	110.7	4659872722.8	98.9	3283958665.0	90.6
SINTOTU	7315	-3642141740.0	84.3	2861496660.4	80.8	4370361654.1	61.1
SNDPOINT	7280	-3425461856.0	28.2	-1214669089.1	15.6	5223858135.5	42.4
SOURDOGH	7281	-2419993462.1	35.4	-1664228713.0	26.8	5643538143.3	81.7
SOURDOGH	7281 (2)	-2419993452.0	23.9	-1664228740.7	18.3	5643538201.9	55.0
TITIJIMA	7316	-4489356426.8	112.5	3482989703.2	124.5	2887931196.6	71.8
TROMSONO	7602	2102904241.7	6.4	721602473.9	4.7	5958201269.3	14.2
TRYSILNO	7607	2988029314.8	5.2	655957026.4	2.4	5578669025.7	9.9
TSUKUBA	7311	-3957172790.2	56.5	3310237978.1	50.3	3737708896.0	58.3
USUDA64	7246	-3855355271.5	33.1	3427427638.0	29.2	3740971247.1	38.7
VERNAL	7290	-1631473278.1	14.9	-4589128900.3	37.5	4106759779.5	32.6
VICTORIA	7289	-2341310072.4	10.4	-3539083837.6	15.7	4745768253.5	20.1
VNDNBERG	7223	-2678094812.4	3.1	-4525450560.1	6.3	3597410237.6	5.4
WESTFORD	7209 ref	1492206686.9	.0	-4458130537.4	.0	4296015471.3	.0
WETTZELL	7224	4075540084.1	5.2	931735178.5	3.0	4801629314.6	9.4
WHTHORSE	7284	-2215213524.5	74.3	-2209261520.3	69.1	5540292305.0	165.9
WHTHORSE	7284 (2)	-2215213638.3	51.3	-2209261621.7	48.3	5540292490.5	115.6
YAKATAGA	7277	-2529744202.6	35.6	-1942091288.2	29.1	5505027876.1	74.3
YAKATAGA	7277 (2)	-2529744219.5	25.1	-1942091242.7	20.7	5505027737.1	52.5
YELLOWKN	7285	-1224124505.3	5.4	-2689530623.7	11.5	5633555220.2	23.9
YLOW7296	7296	-1224399429.7	1.9	-2589273207.0	3.1	5633620186.0	5.0
YUMA	7894	-2196777891.8	17.1	-4887337036.3	37.7	3448425124.5	26.6

Notes:

- (1) Positions after the October 1989 Loma Prieta earthquake extrapolated to the site reference epoch.
 - (2) Positions after the winter 1987-88 Gulf of Alaska earthquakes extrapolated to the site reference epoch.
- ref Reference station which defines the coordinate system origin.



6.0 Baseline Statistics Summaries from GLB868

Table 6.1 presents information about the mean lengths of the baselines. 'num obs' is the number of observing sessions. The span in decimal years extends from the earliest to the most recent session included in this report. The mean value is the weighted mean and the formal error of the mean is its one-sigma standard statistical error. The weighted rms and the reduced χ^2 of the fit to the mean are given in the last two columns.

Table 6.2 presents information about the rates of change (slope) of baseline length for those baselines in Table 6.1 for which there were at least five observations spanning at least two years. The rate of change was computed from a weighted linear fit to the individual session values and the formal errors are 1- σ standard statistical errors scaled by the reduced χ^2 of the linear fit. The weighted rms and reduced χ^2 of the fit to the line are given in columns four and five. The 'epoch value' is the estimated baseline length for January 1, 1988 from the linear fit. The correlation given is the correlation of the error of the slope to the error of the epoch value.

Tables 6.3 and 6.4 contain the statistics of the transverse and vertical baseline components. Neither table gives mean values, epoch values, or correlations since the transverse and vertical values have arbitrary zero points. The other columns are calculated and weighted as in Tables 6.1 and 6.2.

Table 6.1

Length Statistical Summary--Mean						
Baseline Name	Num Obs	Span yr to yr	Mean (mm)	Error (mm)	WRMS (mm)	Chi sqr
ALGOPARK-GILCREEK	27	84.7-91.6	4475699384.8	2.2	11.1	2.9
ALGOPARK-HRAS 085	5	84.7-85.7	2787141066.9	5.1	10.1	2.3
ALGOPARK-KAUAI	7	90.5-91.6	7192645468.3	7.4	18.2	1.5
ALGOPARK-KODIAK	3	90.5-90.5	4887785383.8	5.2	7.3	.3
ALGOPARK-MATERA	3	91.4-91.6	6854842896.8	5.2	7.4	.4
ALGOPARK-MOJAVE12	29	85.6-91.6	3407219023.3	1.7	8.9	2.8
ALGOPARK-NRAO85 3	7	90.5-91.6	848030629.9	1.7	4.2	.8
ALGOPARK-PENTICTN	6	84.7-90.6	3074234617.8	12.0	26.9	3.7
ALGOPARK-RICHMOND	15	90.5-91.6	2254545238.7	2.2	8.4	2.9
ALGOPARK-SNDPOINT	3	90.5-90.5	5395379483.7	3.5	5.0	.1
ALGOPARK-VICTORIA	3	90.6-90.6	3362802084.1	2.0	2.9	.1
ALGOPARK-WESTFORD	29	84.7-91.6	642611324.6	.8	4.1	2.3
ALGOPARK-WETTZELL	12	90.5-91.6	6154929667.8	4.0	13.3	2.7
ALGOPARK-YELLOWKN	2	84.7-85.7	2912296027.7	15.8	15.8	4.8
ALGOPARK-YLOW7296	2	91.5-91.6	2912668596.2	3.7	3.7	1.4
AUSTINTX-HRAS 085	1	87.5-87.5	600902670.9	2.9	—	—
AUSTINTX-RICHMOND	1	87.5-87.5	1773844464.6	5.9	—	—
AUSTINTX-WESTFORD	1	87.5-87.5	2677897008.1	6.6	—	—
BERMUDA -MARPOINT	3	87.6-87.6	1318010982.1	12.6	17.8	8.8
BERMUDA -RICHMOND	4	87.6-87.6	1696707887.7	8.3	14.3	3.7
BERMUDA -WESTFORD	4	87.6-87.6	1284684864.1	3.2	5.5	.7
BLKBUTTE-ELY	2	88.8-88.8	629461896.9	1.8	1.8	.2
BLKBUTTE-HATCREEK	5	87.1-88.8	942475305.9	7.5	15.0	4.7
BLKBUTTE-HRAS 085	5	83.9-88.8	1158018147.0	4.4	8.8	3.6
BLKBUTTE-MOJAVE12	12	83.9-88.8	213868853.3	2.2	7.4	2.2
BLKBUTTE-MON PEAK	4	83.9-86.8	107821848.4	2.5	4.4	.9
BLKBUTTE-OCOTILLO	2	84.2-85.0	97160209.4	9.9	9.9	1.2
BLKBUTTE-OVRO 130	3	86.4-87.8	459067517.6	6.9	9.8	6.3
BLKBUTTE-PRESIDIO	2	87.4-87.8	762366281.1	7.1	7.1	1.4
BLKBUTTE-PT REYES	1	87.1-87.1	815918040.6	9.2	—	—
BLKBUTTE-VNDNBERG	12	83.9-88.8	462367691.2	8.9	29.7	41.4
BLOOMIND-HRAS 085	1	87.6-87.6	1843913181.4	12.4	—	—
BLOOMIND-WESTFORD	1	87.6-87.6	1316252671.5	12.5	—	—
BREST -MOJAVE12	2	89.7-89.7	7945694721.9	15.9	15.9	1.2
BREST -NOTO	4	89.7-89.7	2029687003.9	11.0	19.0	11.1
BREST -ONSALA60	1	89.7-89.7	1480502018.6	5.8	—	—
BREST -RICHMOND	1	89.7-89.7	6574959713.7	17.5	—	—
BREST -WESTFORD	2	89.7-89.7	4970790341.8	10.8	10.8	1.6
BREST -WETTZELL	4	89.7-89.7	1275263010.5	5.9	10.3	6.1
CARNUSTY-MOJAVE12	1	89.6-89.6	7568098953.2	19.5	—	—

Table 6.1 (continued)

Length Statistical Summary--Mean						
Baseline Name	Num Obs	Span yr to yr	Mean (mm)	Error (mm)	WRMS (mm)	Chi sqr
CARNUSTY-RICHMOND	1	89.6-89.6	6586356791.3	18.3	—	—
CARNUSTY-WESTFORD	1	89.6-89.6	4848716956.3	12.9	—	—
CARNUSTY-WETTZELL	4	89.6-89.6	1327033090.1	4.8	8.4	1.6
CARROLGA-HRAS 085	1	87.5-87.5	1799165584.8	12.2	—	—
CARROLGA-RICHMOND	1	87.5-87.5	992547370.2	7.7	—	—
CARROLGA-WESTFORD	1	87.5-87.5	1552637958.3	10.8	—	—
CHLBOLTN-HAYSTACK	7	80.8-80.8	5072314455.1	6.6	16.1	2.5
CHLBOLTN-HRAS 085	7	80.8-80.8	7663737365.6	16.8	41.2	1.9
CHLBOLTN-ONSALA60	7	80.8-80.8	1109864324.4	1.7	4.1	.5
CHLBOLTN-OVRO 130	6	80.8-80.8	7846991266.3	12.1	27.1	1.5
DEADMANL-JPL MV1	1	88.1-88.1	174643147.1	6.6	—	—
DEADMANL-MOJAVE12	5	84.2-88.1	131806789.1	6.4	12.9	3.9
DEADMANL-SANPAULA	4	84.2-87.9	250758812.0	17.9	31.0	20.1
DEADMANL-VNDNBERG	5	84.2-88.1	400134210.7	17.1	34.2	16.1
DSS15 -GILCREEK	2	88.9-89.6	3807400687.4	.0	.0	.0
DSS15 -GOLDVENU	1	87.8-87.8	21069152.1	3.1	—	—
DSS15 -HAYSTACK	2	88.9-89.6	3899992513.1	3.8	3.8	1.8
DSS15 -MOJAVE12	1	87.8-87.8	10011685.4	3.1	—	—
DSS15 -MOJ 7288	1	87.8-87.8	10063344.4	3.6	—	—
DSS15 -OVRO 130	2	87.8-88.9	236711198.7	.4	.4	.1
DSS15 -OVR 7853	1	87.8-87.8	237345165.1	3.0	—	—
DSS15 -YAKATAGA	1	89.6-89.6	3265203801.2	9.3	—	—
DSS45 -GILCREEK	13	88.5-91.7	10526654518.9	18.0	62.4	14.9
DSS45 -HARTRAO	4	91.3-91.9	9589254759.9	35.6	61.7	7.9
DSS45 -HOBART26	8	89.9-91.9	832194192.6	1.6	4.1	1.6
DSS45 -KASHIM34	5	90.2-91.7	7436905042.3	19.8	39.5	20.7
DSS45 -KASHIMA	11	88.5-91.4	7436721428.8	13.7	43.4	19.1
DSS45 -KAUAI	15	88.4-91.7	7769504661.6	15.8	59.1	27.7
DSS45 -KWAJAL26	3	88.5-88.6	5171635852.0	29.7	42.0	5.8
DSS45 -MEDICINA	1	91.8-91.8	12194863983.9	46.3	—	—
DSS45 -MOJAVE12	1	88.4-88.4	10586283480.9	31.3	—	—
DSS45 -SANTIA12	1	91.9-91.9	9928436326.5	32.4	—	—
DSS45 -SESHAN25	16	88.5-91.8	7411128886.0	16.2	62.6	27.8
DSS45 -WETTZELL	2	91.3-91.5	12156491099.1	22.4	22.4	2.0
DSS65 -EFLSBERG	1	91.9-91.9	1414346812.3	1.2	—	—
DSS65 -HRAS 085	1	88.8-88.8	7975454833.5	10.4	—	—
DSS65 -MATERA	6	90.4-91.9	1765812136.3	3.2	7.2	16.3
DSS65 -MEDICINA	10	88.7-91.9	1378852891.2	1.0	2.9	2.4
DSS65 -MOJAVE12	1	88.8-88.8	8395867416.4	11.8	—	—
DSS65 -NOTO	5	89.4-91.7	1711832914.4	3.2	6.3	13.1

Table 6.1 (continued)

Length Statistical Summary--Mean						
Baseline Name	Num Obs	Span yr to yr	Mean (mm)	Error (mm)	WRMS (mm)	Chi sq
DSS65 -ONSALA60	10	88.8-91.7	2205023112.7	2.5	7.6	12.1
DSS65 -RICHMOND	3	88.7-89.0	6726067095.4	7.7	10.8	1.7
DSS65 -WESTFORD	5	88.7-89.4	5300362828.3	5.6	11.3	6.0
DSS65 -WETTZELL	12	88.7-91.9	1655418186.2	1.2	4.1	5.2
EFLSBERG-HAYSTACK	7	79.9-83.3	5591903564.9	13.5	33.0	5.3
EFLSBERG-HRAS 085	6	80.6-83.3	8084184858.9	16.3	36.4	1.7
EFLSBERG-MATERA	1	91.9-91.9	1333777570.1	1.2	—	—
EFLSBERG-MEDICINA	1	91.9-91.9	757049171.3	1.2	—	—
EFLSBERG-NRAO 140	1	79.9-79.9	6334648486.2	32.6	—	—
EFLSBERG-ONSALA60	6	80.6-83.3	832210507.3	2.5	5.5	1.9
EFLSBERG-OVRO 130	6	79.9-80.7	8203742515.4	9.1	20.3	1.1
EFLSBERG-ROBLED32	1	83.3-83.3	1414092460.0	8.3	—	—
EFLSBERG-WESTFORD	1	83.3-83.3	5592851128.8	14.7	—	—
EFLSBERG-WETTZELL	1	91.9-91.9	457481745.6	.7	—	—
ELY -HATCREEK	9	85.3-89.3	590025840.7	2.9	8.3	3.1
ELY -HRAS 085	10	84.3-89.3	1378547100.0	2.7	8.2	1.7
ELY -MOJAVE12	12	84.3-90.8	475517246.4	4.4	14.5	7.5
ELY -OVRO 130	1	86.3-86.3	378140556.3	4.8	—	—
ELY -PLATTVIL	3	84.3-86.3	871865382.7	3.0	4.3	.4
ELY -VNDNBERG	5	87.4-88.8	734889064.9	3.0	6.0	1.5
ELY -WESTFORD	4	89.3-90.8	3580309242.8	6.9	12.0	.9
ELY -YUMA	3	87.4-88.3	707152512.7	5.7	8.1	1.1
FD-VLBA -HRAS 085	4	91.3-91.4	300457.1	.2	.3	.5
FLAGSTAF-HATCREEK	8	84.3-90.9	1062209390.4	7.0	18.6	8.5
FLAGSTAF-HRAS 085	6	84.3-88.8	879283108.1	2.5	5.6	1.1
FLAGSTAF-MOJAVE12	8	84.3-90.9	478050187.9	3.3	8.8	4.3
FLAGSTAF-PLATTVIL	4	84.3-88.8	820904443.8	4.4	7.7	1.7
FLAGSTAF-VERNAL	2	87.3-88.3	595755609.5	.1	.1	.0
FLAGSTAF-WESTFORD	2	90.8-90.9	3497279282.5	9.6	9.6	1.1
FORTORDS-GILCREEK	17	88.9-91.6	3538522575.4	10.6	42.3	14.7
FORTORDS-HATCREEK	16	88.9-90.1	470018628.3	8.4	32.6	34.3
FORTORDS-HAYSTACK	1	89.8-89.8	4225000773.9	14.3	—	—
FORTORDS-MOJAVE12	19	88.9-91.6	462074982.6	7.3	30.9	59.8
FORTORDS-OVRO 130	2	88.9-88.9	319006649.1	6.7	6.7	3.7
FORTORDS-PRESIDIO	3	89.8-89.9	147938851.9	4.5	6.4	1.1
FORTORDS-PT REYES	5	88.9-89.9	197185365.9	10.5	21.0	12.4
FORTORDS-QUINCY	2	89.8-89.8	382655480.0	.8	.8	.0
FORTORDS-VNDNBERG	17	88.9-90.1	248717546.1	5.9	23.6	20.3
FORTORDS-WESTFORD	11	89.8-91.6	4224718650.1	6.0	19.0	2.9
FORTORDS-YLOW7296	2	91.6-91.6	2897818094.4	1.4	1.4	.1

Table 6.1 (continued)

Length Statistical Summary--Mean						
Baseline Name	Num Obs	Span yr to yr	Mean (mm)	Error (mm)	WRMS (mm)	Chi sqr
FORT ORD-GILCREEK	4	88.1-88.1	3530381367.8	5.5	9.6	.7
FORT ORD-HATCREEK	10	84.2-88.1	461111247.9	14.1	42.4	42.8
FORT ORD-HRAS 085	4	85.2-87.8	1774675670.7	22.2	38.5	26.8
FORT ORD-JPL MV1	1	87.8-87.8	426048767.7	5.7	—	—
FORT ORD-MOJAVE12	11	83.7-88.1	464719642.7	13.5	42.8	01.9
FORT ORD-MON PEAK	1	87.1-87.1	644206241.4	6.9	—	—
FORT ORD-OVRO 130	5	83.7-87.8	317067312.1	9.1	18.2	15.4
FORT ORD-PRESIDIO	4	83.7-88.1	139787391.8	9.9	17.1	10.6
FORT ORD-PT REYES	3	87.4-88.1	189551471.7	2.6	3.7	.4
FORT ORD-VNDNBERG	11	83.7-88.1	256852439.2	1.8	5.7	.9
FTD 7900-HRAS 085	1	88.8-88.8	104737.7	3.5	—	—
FTD 7900-MOJAVE12	1	88.8-88.8	1313407340.7	3.8	—	—
FTD 7900-PIETOWN	1	88.8-88.8	564691753.1	3.4	—	—
FTD 7900-WESTFORD	1	88.8-88.8	3134986758.2	6.3	—	—
GILCREEK-GOLDVENU	4	88.5-91.6	3827523756.8	9.3	16.1	26.3
GILCREEK-HALEAKAL	3	88.5-88.5	4837174041.5	4.5	6.3	.3
GILCREEK-HARTRAO	4	90.4-92.0	11997919286.9	63.2	109.4	11.4
GILCREEK-HATCREEK	65	85.4-90.8	3126752884.0	2.0	16.1	6.3
GILCREEK-HAYSTACK	23	84.7-91.6	5039482222.0	1.1	5.1	3.9
GILCREEK-HOBART26	29	89.7-92.0	10953029792.0	7.2	37.9	2.7
GILCREEK-HRAS 085	55	84.7-89.5	4725812330.6	1.6	11.9	2.5
GILCREEK-KASHIM34	22	90.2-92.0	5427062797.4	1.9	8.8	1.7
GILCREEK-KASHIMA	117	84.6-91.9	5427104371.0	1.1	12.1	2.3
GILCREEK-KAUAI	236	84.5-92.0	4728114489.6	5.1	78.5	47.4
GILCREEK-KODIAK	15	84.6-90.5	848553593.8	1.9	7.1	1.5
GILCREEK-KWAJAL26	19	84.5-88.6	6719676591.7	9.2	39.1	6.3
GILCREEK-LA-VLBA	11	91.4-91.9	4157847383.3	1.6	5.1	4.3
GILCREEK-MARCUS	1	90.5-90.5	5885337020.2	10.1	—	—
GILCREEK-MARPOINT	24	88.1-89.6	5152475049.1	4.8	22.9	2.0
GILCREEK-MATERA	15	90.8-91.9	7659919128.7	5.6	20.9	1.8
GILCREEK-MEDICINA	3	89.0-91.2	7266952150.5	3.7	5.3	1.0
GILCREEK-MIZUSGSI	1	91.9-91.9	5134268165.5	16.4	—	—
GILCREEK-MOJAVE12	266	84.5-91.9	3816209139.5	.9	15.4	15.4
GILCREEK-NOBEY 6M	7	89.9-91.5	5522166178.7	14.8	36.2	4.0
GILCREEK-NOME	10	84.5-90.5	848263842.3	2.2	6.6	1.5
GILCREEK-NOTO	4	89.5-91.2	7973487676.5	9.1	15.8	1.1
GILCREEK-NRAO85 3	135	89.1-92.0	5034926346.3	1.0	12.1	2.4
GILCREEK-NRAO 140	1	90.7-90.7	5034558667.3	6.1	—	—
GILCREEK-ONSALA60	12	85.5-91.6	6066488175.3	9.0	29.9	14.9
GILCREEK-OVRO 130	12	85.4-88.9	3584055705.1	5.6	18.7	8.6

Table 6.1 (continued)

Length Statistical Summary--Mean						
Baseline Name	Num Obs	Span yr to yr	Mean (mm)	Error (mm)	WRMS (mm)	Chi sgr
GILCREEK-PENTICTN	5	84.7-90.6	2374175691.8	8.6	17.2	3.1
GILCREEK-PIETOWN	31	89.6-91.9	4225114870.7	1.0	5.5	7.7
GILCREEK-PINFLATS	2	90.1-90.1	3999058542.4	9.6	9.6	1.4
GILCREEK-PLATTVIL	10	85.4-90.8	3810424345.9	4.8	14.5	2.5
GILCREEK-PRESIDIO	10	88.1-91.5	3396404627.2	13.7	41.2	15.9
GILCREEK-PT REYES	12	88.1-91.5	3352262183.9	12.8	42.4	16.4
GILCREEK-PVERDES	2	90.1-90.1	3923759642.6	7.5	7.5	.9
GILCREEK-QUINCY	4	89.8-90.8	3227111790.9	6.0	10.4	1.0
GILCREEK-RICHMOND	139	87.3-92.0	6117758540.6	1.2	14.6	1.6
GILCREEK-SANPAULA	2	90.1-90.1	3841665986.3	7.1	7.1	.6
GILCREEK-SANTIA12	2	92.0-92.0	10696510852.4	3.3	3.3	.0
GILCREEK-SEATTLE1	2	90.6-90.6	2429596208.4	14.3	14.3	3.6
GILCREEK-SESHAN25	17	88.3-92.0	6635555859.9	6.3	25.2	6.4
GILCREEK-SEST	2	90.4-90.4	10483693330.5	20.4	20.4	.7
GILCREEK-SHANGHAI	1	86.5-86.5	6619027546.9	69.4	—	—
GILCREEK-SNDPOINT	13	84.5-90.5	1284477830.8	3.6	12.4	3.2
GILCREEK-SOURDOGH	16	84.6-89.6	276378188.9	1.3	5.0	1.9
GILCREEK-TRYSILNO	6	91.9-92.0	5678966091.7	5.6	12.4	1.7
GILCREEK-VICTORIA	3	90.6-90.6	2318448277.1	3.8	5.4	.3
GILCREEK-VNDNBERG	80	84.5-91.6	3775849548.0	7.9	70.0	97.9
GILCREEK-WESTFORD	166	84.7-92.0	5040099886.6	.6	8.2	4.3
GILCREEK-WETTZELL	34	84.7-92.0	6856771546.5	2.2	12.8	6.0
GILCREEK-WHTHORSE	9	84.6-89.6	788869898.8	4.1	11.7	7.2
GILCREEK-YAKATAGA	16	84.6-90.4	603048938.6	9.8	38.1	64.5
GILCREEK-YELLOWKN	2	84.7-85.7	1631193657.2	6.0	6.0	1.7
GILCREEK-YLOW7296	8	91.5-91.6	1630815496.4	1.6	4.3	1.5
GOLDVENU-HAYSTACK	4	81.9-91.6	3900825674.7	10.0	17.3	21.5
GOLDVENU-HRAS 085	3	81.9-82.8	1302373949.6	3.6	5.1	.9
GOLDVENU-KASHIM34	1	90.6-90.6	8101501399.0	7.1	—	—
GOLDVENU-KASHIMA	1	91.6-91.6	8101442306.4	10.5	—	—
GOLDVENU-MEDICINA	2	90.6-91.2	8838183439.1	19.7	19.7	14.5
GOLDVENU-MOJAVE12	5	83.7-88.5	12567224.4	1.4	2.9	3.9
GOLDVENU-MOJ 7288	1	87.8-87.8	12776767.9	2.2	—	—
GOLDVENU-NRAO 140	1	81.9-81.9	3257509151.8	7.0	—	—
GOLDVENU-ONSALA60	6	81.9-91.6	8024928169.7	14.9	33.4	13.3
GOLDVENU-OVRO 130	6	81.9-87.8	257587460.7	3.6	8.1	4.4
GOLDVENU-OVR 7853	1	87.8-87.8	258212541.4	2.6	—	—
GOLDVENU-PRESIDIO	1	83.7-83.7	580657651.9	15.5	—	—
GOLDVENU-PT REYES	1	83.7-83.7	633483755.5	14.2	—	—
GOLDVENU-QUINCY	1	82.8-82.8	639556785.2	5.5	—	—

Table 6.1 (continued)

Length Statistical Summary--Mean						
Baseline Name	Num Obs	Span yr to yr	Mean (mm)	Error (mm)	WRMS (mm)	Chi sqr
GOLDVENU-VNDNBERG	1	83.7-83.7	357563250.0	9.7	—	—
GOLDVENU-WESTFORD	4	81.9-88.5	3900445508.6	7.9	13.8	4.4
GORF7102-HRAS 085	1	89.4-89.4	2618744927.6	6.5	—	—
GORF7102-MARPOINT	2	89.4-89.4	79845260.0	3.5	3.5	.9
GORF7102-MOJAVE12	5	89.8-91.9	3506892293.8	5.9	11.7	3.5
GORF7102-NRAO85 3	4	89.4-91.7	270278772.3	2.2	3.8	2.3
GORF7102-RICHMOND	6	89.4-91.7	1519989265.2	3.9	8.8	3.0
GORF7102-SANTIA12	1	91.9-91.9	7492886974.3	31.6	—	—
GORF7102-WESTFORD	7	89.4-91.9	600947760.9	2.8	6.9	3.1
GORF7102-WETTZELL	1	91.9-91.9	6522072797.8	24.5	—	—
GRASSE -MOJAVE12	1	89.7-89.7	8701934679.4	21.6	—	—
GRASSE -NOTO	2	89.7-89.7	1024494289.7	3.1	3.1	1.1
GRASSE -RICHMOND	1	89.7-89.7	7392007137.8	20.6	—	—
GRASSE -WESTFORD	1	89.7-89.7	5890367638.7	12.8	—	—
GRASSE -WETTZELL	4	89.7-89.7	753160844.7	1.2	2.1	.5
HALEAKAL-KAUAI	3	88.5-88.5	386841606.8	.8	1.2	.1
HALEAKAL-MOJAVE12	3	88.5-88.5	4090637546.4	11.3	15.9	2.8
HARTRAO -HOBART26	27	90.0-92.0	9167618336.8	12.7	64.6	3.2
HARTRAO -HRAS 085	6	87.1-89.2	11878469246.7	12.9	28.8	.7
HARTRAO -KASHIM34	6	90.4-92.0	11181747743.4	40.2	90.0	9.2
HARTRAO -KASHIMA	2	90.3-90.4	11181845933.5	34.4	34.4	1.7
HARTRAO -KAUAI	4	90.4-92.0	12723069055.9	59.5	103.0	7.3
HARTRAO -MATERA	1	91.9-91.9	7032844472.9	16.6	—	—
HARTRAO -MEDICINA	5	88.0-91.8	7453222512.4	10.7	21.4	1.5
HARTRAO -MOJAVE12	23	90.0-91.9	12260679045.2	8.9	41.9	2.2
HARTRAO -NOTO	4	91.4-91.7	6713445720.8	9.8	16.9	1.6
HARTRAO -NRAO85 3	1	91.9-91.9	10971697931.3	28.4	—	—
HARTRAO -ONSALA60	7	86.0-90.4	8525165639.7	21.1	51.8	4.2
HARTRAO -RICHMOND	40	86.0-91.9	10814591304.2	6.6	41.1	2.2
HARTRAO -SANTIA12	4	91.9-92.0	8424406078.9	20.5	35.5	1.9
HARTRAO -SESHAN25	7	90.3-92.0	10160763445.7	19.3	47.3	2.4
HARTRAO -SEST	2	90.4-90.4	8572702570.3	20.1	20.1	.5
HARTRAO -WESTFORD	50	86.0-92.0	10658658463.9	6.5	45.4	3.0
HARTRAO -WETTZELL	46	86.0-92.0	7832322554.9	3.3	21.9	1.8
HATCREEK-HAYSTACK	2	84.3-89.8	4032976733.3	21.9	21.9	15.4
HATCREEK-HRAS 085	62	83.4-89.4	1933473664.9	2.2	16.9	7.6
HATCREEK-JPL MV1	2	83.5-87.8	789070011.5	41.4	41.4	82.5
HATCREEK-KASHIM34	1	90.8-90.8	7557379013.8	25.8	—	—
HATCREEK-KASHIMA	16	84.2-90.1	7557328242.9	6.4	24.7	4.7
HATCREEK-KAUAI	17	85.4-90.8	4061718602.1	2.7	11.0	2.8

Table 6.1 (continued)

Length Statistical Summary--Mean						
Baseline Name	Num Obs	Span yr to yr	Mean (mm)	Error (mm)	WRMS (mm)	Chi sq
HATCREEK-KODIAK	2	87.5-87.5	2870190267.1	2.1	2.1	.1
HATCREEK-MAMMOTHL	1	83.5-83.5	414535909.7	9.3	—	—
HATCREEK-MOJAVE12	139	83.5-90.9	729148668.8	.6	6.8	2.7
HATCREEK-MON PEAK	24	83.5-90.9	986815224.2	11.4	54.4	67.6
HATCREEK-OVRO 130	38	83.4-88.9	484321527.3	1.3	8.1	3.0
HATCREEK-PINFLATS	2	90.1-90.1	914296125.7	10.7	10.7	9.0
HATCREEK-PLATTVIL	22	83.4-90.8	1416314069.5	3.3	15.2	7.4
HATCREEK-PRESIDIO	14	85.8-90.1	344991837.4	6.9	25.0	20.6
HATCREEK-PT REYES	16	84.2-90.0	326628736.9	7.3	28.4	23.0
HATCREEK-PVERDES	4	89.1-90.1	830152832.5	9.1	15.8	9.3
HATCREEK-QUINCY	17	83.5-90.8	103712239.1	1.8	7.2	2.2
HATCREEK-SANPAULA	4	89.1-90.1	745783175.4	7.9	13.8	8.2
HATCREEK-SNDPOINT	1	87.6-87.6	3229864839.0	492.1	—	—
HATCREEK-VERNAL	8	86.2-90.8	1007489466.5	6.7	17.8	13.1
HATCREEK-VNDNBERG	92	84.2-90.1	698706376.8	4.9	46.8	09.3
HATCREEK-WESTFORD	32	83.4-90.9	4032819087.3	3.0	16.5	5.1
HATCREEK-YAKATAGA	3	87.6-87.6	2569202494.1	6.6	9.4	1.0
HATCREEK-YUMA	12	85.2-88.8	1086071223.4	4.5	14.9	5.8
HAYSTACK-HRAS 085	36	80.3-89.5	3135641002.3	2.3	13.6	1.8
HAYSTACK-KASHIM34	1	90.6-90.6	9501718942.1	7.6	—	—
HAYSTACK-KASHIMA	3	84.7-91.6	9501779968.5	43.9	62.1	20.6
HAYSTACK-KODIAK	1	89.5-89.5	5466172815.5	19.5	—	—
HAYSTACK-MARPOINT	2	82.5-82.5	677293408.1	1.7	1.7	.3
HAYSTACK-MEDICINA	2	90.6-91.2	6143998963.4	15.8	15.8	21.9
HAYSTACK-MOJAVE12	24	84.3-89.8	3904144266.1	.9	4.4	3.3
HAYSTACK-NRAO 140	5	79.6-81.9	845129853.6	1.6	3.3	1.4
HAYSTACK-ONSALA60	42	80.6-91.6	5599714533.7	10.9	69.9	59.1
HAYSTACK-OVRO 130	29	79.6-88.9	3928881634.9	2.6	13.7	2.9
HAYSTACK-PIETOWN	13	89.6-89.8	3263328881.6	1.0	3.6	6.4
HAYSTACK-PLATTVIL	1	84.3-84.3	2753205378.2	11.1	—	—
HAYSTACK-PRESIDIO	1	89.8-89.8	4224649418.2	15.9	—	—
HAYSTACK-ROBLED32	1	83.3-83.3	5299699239.4	26.0	—	—
HAYSTACK-VNDNBERG	1	89.8-89.8	4229299763.8	11.5	—	—
HAYSTACK-WESTFORD	26	81.4-89.8	1239395.6	.3	1.6	1.3
HAYSTACK-WETTZELL	6	84.7-86.7	5997390716.1	7.2	16.2	4.4
HAYSTACK-YAKATAGA	1	89.6-89.6	4895243303.3	14.1	—	—
HOBART26-KASHIM34	18	90.2-92.0	8071309323.5	6.6	27.4	2.9
HOBART26-KASHIMA	9	89.7-90.5	8071140639.7	4.4	12.6	1.3
HOBART26-KAUAI	14	89.7-92.0	8268576624.9	9.3	33.4	5.2
HOBART26-MOJAVE12	20	90.0-91.9	10845184290.9	8.8	38.3	2.0

Table 6.1 (continued)

Length Statistical Summary--Mean						
Baseline Name	Num Obs	Span yr to yr	Mean (mm)	Error (mm)	WRMS (mm)	Chi sqr
HOBART26-NOBEY 6M	4	90.2-91.5	8086554654.4	23.4	40.5	3.1
HOBART26-ONSALA60	2	90.4-90.4	12256219617.6	34.7	34.7	2.6
HOBART26-SANTIA12	4	91.9-92.0	9522904373.8	13.7	23.8	.6
HOBART26-SESHAN25	9	90.0-92.0	7965496521.9	8.4	23.9	3.1
HOBART26-SEST	2	90.4-90.4	9773309655.6	34.6	34.6	1.7
HOBART26-WESTFORD	4	90.4-92.0	12346564984.5	16.7	28.9	1.3
HOBART26-WETTZELL	4	91.3-92.0	12247179559.3	14.7	25.5	1.2
HOHENFRG-MOJAVE12	2	89.5-89.5	8257097585.3	.8	.8	.0
HOHENFRG-NOTO	5	89.5-89.5	1825225882.6	2.1	4.3	.9
HOHENFRG-RICHMOND	2	89.5-89.5	7347945824.9	4.5	4.5	.1
HOHENFRG-WESTFORD	2	89.5-89.5	5694164271.9	9.8	9.8	1.1
HOHENFRG-WETTZELL	5	89.5-89.5	465777113.5	.7	1.5	.3
HRAS 085-JPL MV1	3	82.8-87.8	1391413651.2	49.9	70.6	09.5
HRAS 085-KASHIMA	27	87.3-89.5	9027663362.8	10.5	53.5	2.7
HRAS 085-KODIAK	1	89.5-89.5	4645400664.8	17.6	—	—
HRAS 085-LEONRDOK	1	87.6-87.6	957117024.1	4.8	—	—
HRAS 085-MAMMOTHL	1	83.5-83.5	1580143778.0	10.3	—	—
HRAS 085-MARPOINT	3	82.8-89.4	2570813374.5	5.4	7.7	1.8
HRAS 085-MCD 7850	1	88.8-88.8	8125163.0	2.6	—	—
HRAS 085-MEDICINA	12	87.3-89.1	8604525558.8	7.8	25.9	2.0
HRAS 085-MILES MON	1	88.3-88.3	1751993829.4	8.3	—	—
HRAS 085-MOJAVE12	134	83.5-90.8	1313368175.2	1.1	12.2	10.2
HRAS 085-MON PEAK	33	82.8-89.4	1205751646.7	10.4	58.9	02.9
HRAS 085-NRAO85 3	1	89.4-89.4	2353779386.8	4.7	—	—
HRAS 085-NRAO 140	6	80.3-88.8	2354634004.8	3.4	7.5	3.0
HRAS 085-ONSALA60	107	80.6-89.4	7940732256.2	4.2	42.8	4.1
HRAS 085-OVRO 130	73	80.3-88.8	1508195408.2	2.5	21.2	14.6
HRAS 085-PENTICTN	3	84.7-85.7	2443354520.3	8.9	12.6	1.2
HRAS 085-PIETOWN	3	88.7-88.8	564620892.8	.4	.6	.1
HRAS 085-PINFLATS	5	85.8-87.0	1223294551.3	4.7	9.4	2.8
HRAS 085-PLATTVIL	20	83.4-89.3	1060499648.1	1.7	7.4	1.7
HRAS 085-PRESIDIO	4	85.2-87.1	1870585831.0	8.3	14.3	4.0
HRAS 085-PT REYES	2	85.2-85.8	1921015702.1	4.7	4.7	.4
HRAS 085-QUINCY	14	82.8-89.3	1849591449.6	6.3	22.8	9.8
HRAS 085-RICHMOND	350	84.0-90.8	2362632826.4	.6	10.5	2.1
HRAS 085-ROBLED32	1	83.3-83.3	7975530221.5	39.8	—	—
HRAS 085-VERNAL	6	86.2-89.3	1187981358.6	3.6	8.0	2.4
HRAS 085-VNDNBERG	44	83.9-89.4	1617713894.9	7.4	48.8	73.0
HRAS 085-WESTFORD	597	81.4-90.8	3134928007.6	.5	13.0	3.0
HRAS 085-WETTZELL	415	83.9-90.8	8417561520.7	1.6	33.3	3.0

Table 6.1 (continued)

Length Statistical Summary--Mean						
Baseline Name	Num Obs	Span yr to yr	Mean (mm)	Error (mm)	WRMS (mm)	Chi sq
HRAS 085-YELLOWKN	2	84.7-85.7	3572069874.3	6.3	6.3	.3
HRAS 085-YUMA	18	83.8-88.8	1002949390.0	2.0	8.2	2.9
JPL MV1 -MAMMOTHL	4	83.5-86.8	387649675.0	11.6	20.2	5.8
JPL MV1 -MOJAVE12	21	83.5-88.9	171686437.1	3.0	13.4	6.7
JPL MV1 -MON PEAK	1	82.8-82.8	218307721.6	7.6	—	—
JPL MV1 -OVRO 130	19	82.8-88.9	335941404.4	6.8	28.9	14.0
JPL MV1 -PBLOSSOM	7	83.1-88.0	41155683.7	3.4	8.4	1.4
JPL MV1 -PINFLATS	6	83.8-87.0	171805089.7	2.6	5.9	1.3
JPL MV1 -PRESIDIO	2	88.8-88.9	555228198.4	3.7	3.7	.7
JPL MV1 -QUINCY	1	82.8-82.8	685704818.9	86.2	—	—
JPL MV1 -VNDNBERG	18	83.6-88.9	228030979.5	3.2	13.1	6.8
KASHIM34-KASHIMA	6	90.2-90.5	311196.1	1.0	2.3	.8
KASHIM34-KAUAI	10	90.2-92.0	5709565714.1	14.5	43.5	34.8
KASHIM34-MARCUS	1	90.5-90.5	1812578162.5	5.4	—	—
KASHIM34-MEDICINA	1	90.6-90.6	8811182224.6	7.2	—	—
KASHIM34-MOJAVE12	11	90.2-91.5	8091883103.6	3.9	12.5	.8
KASHIM34-NOBEY 6M	5	90.2-91.5	197421504.5	3.3	6.7	1.2
KASHIM34-ONSALA60	3	90.4-90.6	7969420825.9	9.4	13.3	3.1
KASHIM34-SANTIA12	2	92.0-92.0	12419326071.2	1.7	1.7	.0
KASHIM34-SESHAN25	9	90.2-92.0	1875725740.6	6.0	17.0	10.8
KASHIM34-SEST	2	90.4-90.4	12389079051.5	12.5	12.5	.2
KASHIM34-SINTOTU	1	90.6-90.6	846282864.7	7.3	—	—
KASHIM34-WESTFORD	4	90.4-92.0	9502255566.9	6.0	10.4	.7
KASHIM34-WETTZELL	4	91.3-92.0	8475605263.6	7.0	12.1	.9
KASHIMA -KAUAI	66	84.6-91.4	5709360244.2	13.3	107.5	85.3
KASHIMA -KWAJAL26	16	84.6-88.6	3936330637.0	23.6	91.2	87.6
KASHIMA -MARCUS	1	90.5-90.5	1812270517.9	5.8	—	—
KASHIMA -MEDICINA	1	90.4-90.4	8811399460.5	17.6	—	—
KASHIMA -MIYAZAKI	3	86.8-88.8	948551349.0	7.1	10.1	1.1
KASHIMA -MIZUSGSI	1	91.9-91.9	353521608.6	8.2	—	—
KASHIMA -MOJAVE12	56	84.1-91.2	8091824106.1	3.2	23.9	4.0
KASHIMA -NOBEY 6M	3	89.9-90.2	197660891.7	4.0	5.7	1.1
KASHIMA -ONSALA60	7	85.5-91.6	7969643044.4	16.2	39.8	8.8
KASHIMA -RICHMOND	29	87.3-90.1	10279840860.1	6.6	34.9	1.4
KASHIMA -SESHAN25	15	88.3-91.4	1875920080.0	7.3	27.5	30.9
KASHIMA -SHANGHAI	1	86.5-86.5	1852075233.4	32.6	—	—
KASHIMA -SINTOTU	3	90.6-90.6	846453899.0	3.8	5.3	.6
KASHIMA -TITIJIMA	3	87.9-89.9	991640352.9	17.2	24.3	2.5
KASHIMA -TSUKUBA	7	84.6-89.7	54548552.5	3.6	8.7	1.2
KASHIMA -USUDA64	1	90.6-90.6	208219605.9	5.6	—	—

Table 6.1 (continued)

Length Statistical Summary--Mean						
Baseline Name	Num Obs	Span yr to yr	Mean (mm)	Error (mm)	WRMS (mm)	Chi sq
KASHIMA -VNDNBERG	27	85.4-90.1	7913888161.1	10.8	55.3	22.6
KASHIMA -WESTFORD	8	85.5-90.0	9502316533.9	10.1	26.8	3.2
KASHIMA -WETTZELL	12	84.7-90.4	8475826930.4	13.9	46.2	8.1
KASHIMA -WHTHORSE	1	89.6-89.6	6047388113.2	23.7	—	—
KAUAI -KWAJAL26	20	84.5-88.6	3725196314.7	3.9	17.1	2.9
KAUAI -LA-VLBA	11	91.4-91.9	5199822538.5	3.3	10.5	9.7
KAUAI -MARPOINT	6	88.4-89.4	7391325623.8	16.5	36.9	2.2
KAUAI -MATERA	15	90.8-91.9	10894160910.3	10.4	38.9	2.3
KAUAI -MOJAVE12	65	84.5-91.9	4303581335.6	5.8	46.5	81.9
KAUAI -NOTO	3	89.5-91.2	11099796266.4	10.6	15.0	.5
KAUAI -NRAO85 3	129	89.1-92.0	7208031500.8	1.8	20.6	3.1
KAUAI -ONSALA60	2	90.4-90.4	9792569605.5	7.2	7.2	.4
KAUAI -PIETOWN	6	91.1-91.9	5040441450.7	3.2	7.1	6.6
KAUAI -RICHMOND	98	88.4-92.0	7452634419.4	3.0	29.7	4.4
KAUAI -SANTIA12	2	92.0-92.0	9834797865.8	16.0	16.0	.4
KAUAI -SESHAN25	18	88.3-92.0	7310293974.9	22.2	91.4	64.1
KAUAI -SEST	2	90.4-90.4	9740852563.8	3.5	3.5	.0
KAUAI -SHANGHAI	1	86.5-86.5	7290813028.6	63.8	—	—
KAUAI -VNDNBERG	32	84.5-90.1	3972522447.8	2.9	15.9	5.5
KAUAI -WESTFORD	22	90.4-92.0	7676223222.0	2.9	13.2	5.2
KAUAI -WETTZELL	17	91.1-92.0	10357464658.7	4.2	17.0	5.8
KAUAI -WHTHORSE	1	89.6-89.6	4587139203.0	17.9	—	—
KODIAK -MOJAVE12	10	87.5-90.5	3574416153.2	3.3	9.9	1.0
KODIAK -NOME	4	84.6-86.6	1024053276.0	9.2	15.9	2.0
KODIAK -VNDNBERG	4	84.6-86.6	3459022118.4	21.2	36.6	5.3
KODIAK -WESTFORD	8	88.5-90.5	5466634672.3	5.1	13.4	.8
KWAJAL26-MOJAVE12	17	84.5-88.6	7576938615.2	8.6	34.4	4.1
KWAJAL26-SESHAN25	3	88.5-88.6	5191948401.5	12.3	17.3	1.8
KWAJAL26-VNDNBERG	12	84.5-88.6	7298104569.2	10.9	36.3	5.2
LA-VLBA -MOJAVE12	12	91.4-91.9	964980750.0	1.7	5.8	12.4
LA-VLBA -PIETOWN	4	91.4-91.9	236640006.6	2.6	4.5	17.7
LA-VLBA -WESTFORD	12	91.4-91.9	3044179217.8	1.6	5.3	5.4
LA-VLBA -WETTZELL	12	91.4-91.9	8161830103.7	2.7	8.9	4.7
LEONRDOK-RICHMOND	1	87.6-87.6	1854619801.7	6.5	—	—
LEONRDOK-WESTFORD	1	87.6-87.6	2205062326.1	6.5	—	—
MAMMOTHL-MOJAVE12	4	83.5-86.8	315785217.3	5.1	8.8	2.3
MAMMOTHL-OVRO 130	4	83.5-86.8	74255493.8	3.5	6.1	1.5
MAMMOTHL-VNDNBERG	2	84.8-86.8	373995446.3	10.6	10.6	6.4
MARCUS -SESHAN25	1	90.5-90.5	3270841161.5	7.5	—	—
MARPOINT-MEDICINA	1	89.0-89.0	6721974429.7	22.1	—	—

Table 6.1 (continued)

Length Statistical Summary--Mean						
Baseline Name	Num Obs	Span yr to yr	Mean (mm)	Error (mm)	WRMS (mm)	Chi sgr
MARPOINT-NOTO	1	89.5-89.5	7291183510.8	15.8	—	—
MARPOINT-NRAO85 3	11	89.1-89.6	228306392.2	2.7	8.5	5.2
MARPOINT-ONSALA60	4	82.5-83.7	6198441065.0	1.4	2.3	.0
MARPOINT-OVRO 130	3	82.5-82.8	3540824488.4	.7	1.0	.0
MARPOINT-RICHMOND	22	87.6-89.6	1442649215.1	2.8	12.9	2.4
MARPOINT-WESTFORD	9	82.5-89.4	676178920.9	4.5	12.8	5.3
MATERA -MEDICINA	5	90.4-91.9	597262301.4	3.2	6.4	16.9
MATERA -MOJAVE12	3	91.8-92.0	9255718109.0	9.1	12.9	2.5
MATERA -NOTO	4	90.7-91.7	444532984.5	2.0	3.4	4.3
MATERA -NRAO85 3	15	90.8-91.9	7354567906.3	5.4	20.3	1.5
MATERA -ONSALA60	4	90.7-91.7	1886809336.6	3.7	6.4	10.0
MATERA -RICHMOND	4	91.8-92.0	8088948187.2	6.1	10.5	1.5
MATERA -WESTFORD	3	91.8-92.0	6647032679.9	10.1	14.3	8.1
MATERA -WETTZELL	10	90.4-92.0	990053378.2	1.9	5.7	9.8
MCD 7850-MOJAVE12	1	88.8-88.8	1305462983.6	3.4	—	—
MCD 7850-PIETOWN	1	88.8-88.8	556665227.4	2.7	—	—
MCD 7850-WESTFORD	1	88.8-88.8	3137645303.0	4.5	—	—
MEDICINA-NOTO	4	90.1-91.7	893724227.8	2.7	4.8	10.8
MEDICINA-ONSALA60	13	87.3-91.7	1429470394.7	1.6	5.6	5.6
MEDICINA-RICHMOND	14	87.3-89.0	7658214942.6	6.4	23.1	2.1
MEDICINA-SESHAN25	2	90.4-91.8	8287102210.4	10.0	10.0	.5
MEDICINA-WESTFORD	19	87.3-89.1	6144872378.7	1.7	7.2	.7
MEDICINA-WETTZELL	22	87.3-91.9	522461126.3	.9	4.0	3.5
METSHOVI-MOJAVE12	2	89.5-89.5	8149935266.6	24.4	24.4	1.0
METSHOVI-ONSALA60	5	89.5-89.5	784441965.4	3.7	7.4	2.4
METSHOVI-RICHMOND	2	89.5-89.5	7758613774.8	35.3	35.3	2.2
METSHOVI-WESTFORD	2	89.5-89.5	6059189135.1	11.1	11.1	.4
METSHOVI-WETTZELL	5	89.5-89.5	1433414946.9	1.4	2.9	.3
MILESMON-MOJAVE12	1	88.3-88.3	1534074218.8	8.1	—	—
MILESMON-WESTFORD	1	88.3-88.3	2722126743.4	10.8	—	—
MOJAVE12-MON PEAK	36	83.5-90.9	274055789.4	6.7	39.7	66.8
MOJAVE12-NOBEY 6M	7	89.9-91.5	8216104558.4	20.1	49.3	3.4
MOJAVE12-NOME	3	90.5-90.5	4471763789.4	7.3	10.3	.7
MOJAVE12-NOTO	10	89.5-91.7	9422863899.3	5.3	15.9	.9
MOJAVE12-NRAO85 3	9	89.5-91.8	3262045658.2	1.4	4.1	.8
MOJAVE12-NRAO 140	3	88.8-91.8	3262601945.5	6.5	9.2	8.4
MOJAVE12-OCOTILLO	3	84.2-85.2	299368638.7	7.3	10.3	2.6
MOJAVE12-ONSALA60	47	83.8-91.7	8021117539.9	4.0	27.1	7.0
MOJAVE12-OVRO 130	81	83.5-88.9	245276453.4	.8	7.2	3.4
MOJAVE12-OVR 7853	1	87.8-87.8	245893864.5	2.3	—	—

Table 6.1 (continued)

Length Statistical Summary--Mean						
Baseline Name	Num Obs	Span yr to yr	Mean (mm)	Error (mm)	WRMS (mm)	Chi sq
MOJAVE12-PBLOSSOM	9	83.6-88.1	131184785.1	2.5	7.0	2.4
MOJAVE12-PENTICTN	3	90.6-90.6	1566267813.8	8.0	11.4	2.8
MOJAVE12-PIETOWN	34	88.7-91.9	809730834.1	.7	3.8	10.2
MOJAVE12-PINFLATS	21	83.8-90.1	195109712.0	4.5	20.0	14.1
MOJAVE12-PLATTVIL	21	84.3-90.8	1196316951.3	1.5	6.8	1.8
MOJAVE12-PRESIDIO	22	83.7-91.5	568654984.7	8.1	37.0	62.2
MOJAVE12-PT REYES	20	83.7-91.5	621424857.7	10.4	45.2	87.6
MOJAVE12-PVERDES	9	83.9-90.1	224483709.2	2.6	7.4	2.2
MOJAVE12-QUINCY	20	83.5-90.8	627137773.3	2.2	9.7	3.7
MOJAVE12-RICHMOND	191	84.0-92.0	3594693022.7	.7	9.5	3.0
MOJAVE12-SANPAULA	10	83.7-90.1	219618298.8	6.4	19.2	15.3
MOJAVE12-SANTIA12	1	91.9-91.9	8253264764.0	22.5	—	—
MOJAVE12-SEATTLE1	3	86.7-90.6	1439349331.6	16.9	23.9	12.7
MOJAVE12-SEST	1	90.3-90.3	7986720624.2	16.0	—	—
MOJAVE12-SNDPOINT	10	87.6-90.5	3916865256.6	7.4	22.2	3.5
MOJAVE12-SOURDOGH	8	87.6-89.6	3577769381.5	5.5	14.5	2.2
MOJAVE12-TROMSONO	1	89.6-89.6	7344759272.0	15.6	—	—
MOJAVE12-VERNAL	8	86.2-90.8	848884615.7	2.2	5.8	1.6
MOJAVE12-VICTORIA	3	90.6-90.6	1545227668.5	6.6	9.3	2.1
MOJAVE12-VNDNBERG	163	83.6-91.6	351282529.1	2.1	26.4	64.0
MOJAVE12-WESTFORD	403	83.5-92.0	3903767759.6	.4	7.2	2.7
MOJAVE12-WETTZELL	230	84.7-92.0	8588976465.3	1.1	16.8	3.0
MOJAVE12-WHTHORSE	5	88.6-89.6	3076518263.5	8.2	16.4	4.6
MOJAVE12-YAKATAGA	10	87.6-90.4	3273878619.3	8.6	25.7	7.1
MOJAVE12-YLOW7296	8	91.5-91.6	2995740025.2	2.7	7.0	2.5
MOJAVE12-YUMA	21	83.8-88.8	362912398.2	2.2	9.8	5.6
MOJ 7288-MOJAVE12	1	87.8-87.8	358196.9	1.7	—	—
MOJ 7288-OVRO 130	1	87.8-87.8	245135040.7	2.7	—	—
MOJ 7288-OVR 7853	1	87.8-87.8	245751411.2	2.9	—	—
MON PEAK-OVRO 130	20	82.8-88.8	510423733.2	10.5	45.6	61.2
MON PEAK-QUINCY	13	83.5-88.8	883538182.2	13.4	46.4	39.8
MON PEAK-VNDNBERG	26	83.9-89.4	430216039.3	2.2	11.0	6.8
MON PEAK-WESTFORD	2	90.9-90.9	3985679554.4	9.4	9.4	1.0
MON PEAK-YUMA	8	83.8-87.9	207726998.7	10.5	27.8	64.0
NOME -SNDPOINT	3	84.5-86.6	1060002871.3	4.1	5.8	.5
NOME -VNDNBERG	7	84.5-86.6	4388694143.4	19.5	47.6	6.1
NOME -WESTFORD	3	90.5-90.5	5785551141.3	12.1	17.1	1.2
NOTO -NRAO85 3	4	89.5-91.2	7446887092.4	8.1	14.1	1.2
NOTO -ONSALA60	7	89.4-91.7	2280154886.5	3.1	7.6	9.8
NOTO -RICHMOND	9	89.5-91.7	8115263593.3	5.8	16.4	1.2

Table 6.1 (continued)

Length Statistical Summary--Mean						
Baseline Name	Num Obs	Span yr to yr	Mean (mm)	Error (mm)	WRMS (mm)	Chi sqr
NOTO -WESTFORD	10	89.4-91.7	6744637400.8	5.5	16.6	2.7
NOTO -WETTZELL	21	89.4-91.7	1371101057.1	1.5	6.5	5.4
NRAO85 3-RICHMOND	104	89.3-92.0	1419169138.2	.7	7.4	2.4
NRAO85 3-WESTFORD	8	89.4-91.8	845216074.5	1.8	4.8	4.0
NRAO85 3-WETTZELL	1	91.9-91.9	6725781929.3	11.4	—	—
NRAO 140-NRAO85 3	1	91.8-91.8	1128931.4	1.8	—	—
NRAO 140-ONSALA60	4	81.9-83.0	6319317549.5	14.4	24.9	3.2
NRAO 140-OVRO 130	8	79.6-88.8	3324244205.5	5.9	15.7	9.4
NRAO 140-RICHMOND	1	91.8-91.8	1420105749.2	2.9	—	—
NRAO 140-WESTFORD	7	81.9-91.8	844148086.7	1.6	4.0	2.4
OCOTILLO-OVRO 130	1	85.2-85.2	542313250.0	7.2	—	—
OCOTILLO-PVERDES	1	85.2-85.2	264927266.1	5.7	—	—
OCOTILLO-VNDNBERG	3	84.2-85.2	487851105.0	10.2	14.4	3.9
ONSALA60-OVRO 130	33	80.6-87.8	7914131000.9	7.7	43.3	6.1
ONSALA60-RICHMOND	69	84.1-91.7	7307152592.6	4.1	33.5	7.4
ONSALA60-ROBLED32	1	83.3-83.3	2204783302.9	11.7	—	—
ONSALA60-SEST	3	90.3-90.4	10459732563.4	7.0	9.9	.2
ONSALA60-TROMSONO	4	89.6-89.6	1406156769.2	7.4	12.8	6.7
ONSALA60-WESTFORD	154	81.8-91.7	5600741537.6	3.2	39.3	25.3
ONSALA60-WETTZELL	136	83.6-91.7	919660997.8	.4	4.8	2.8
OVRO 130-PBLOSSOM	7	83.1-87.8	303497806.4	4.3	10.6	2.1
OVRO 130-PINFLATS	7	83.8-86.8	434649341.9	6.5	16.0	5.3
OVRO 130-PLATTVIL	9	83.4-88.3	1220818761.4	3.5	9.9	3.9
OVRO 130-PRESIDIO	8	83.7-88.9	374258371.0	10.9	28.9	40.6
OVRO 130-PT REYES	6	83.7-88.9	421766819.4	18.6	41.6	57.4
OVRO 130-PVERDES	2	83.9-85.2	387094567.0	14.2	14.2	4.2
OVRO 130-QUINCY	14	82.8-88.8	382696345.2	2.7	9.6	3.4
OVRO 130-SANPAULA	1	83.7-83.7	322080185.4	11.8	—	—
OVRO 130-VNDNBERG	46	83.6-88.9	363980311.2	2.3	15.6	7.8
OVRO 130-WESTFORD	29	81.5-88.8	3928579369.8	2.6	13.9	4.0
OVRO 130-WETTZELL	7	85.2-87.8	8500205014.9	12.9	31.7	6.9
OVRO 130-YUMA	7	83.8-87.8	603989382.8	2.2	5.5	1.1
OVR 7853-OVRO 130	1	87.8-87.8	991122.2	1.6	—	—
PBLOSSOM-SANPAULA	1	88.1-88.1	99880794.2	7.1	—	—
PBLOSSOM-VNDNBERG	9	83.6-88.1	247362520.9	8.4	23.7	24.3
PENTICTN-WESTFORD	3	90.6-90.6	3684967786.0	12.7	17.9	1.8
PENTICTN-YELLOWKN	2	84.7-85.7	1495292886.7	2.6	2.6	.1
PIETOWN -WESTFORD	33	88.7-91.9	3262799697.5	.7	4.1	4.9
PIETOWN -WETTZELL	7	91.1-91.9	8339267313.9	4.1	10.0	5.9
PINFLATS-PVERDES	3	87.2-88.1	180972818.6	2.7	3.8	.8

Table 6.1 (continued)

Length Statistical Summary--Mean						
Baseline Name	Num Obs	Span yr to yr	Mean (mm)	Error (mm)	WRMS (mm)	Chi sqr
PINFLATS-VNDNBERG	20	83.8-90.1	397781421.9	5.9	25.8	22.8
PINFLATS-YUMA	6	83.8-87.0	222910498.3	8.2	18.4	15.2
PLATTVIL-VERNAL	1	86.2-86.2	412425202.6	4.0	—	—
PLATTVIL-WESTFORD	11	83.4-90.8	2752862690.8	3.9	12.3	3.0
PRESIDIO-PT REYES	3	83.7-85.8	53727233.3	.8	1.2	.1
PRESIDIO-VNDNBERG	20	83.7-90.1	396580066.4	5.6	24.6	17.6
PRESIDIO-WESTFORD	6	89.8-91.5	4224409678.2	7.7	17.1	1.9
PRESIDIO-YLOW7296	2	91.5-91.5	2775924623.8	.6	.6	.0
PRESIDIO-YUMA	1	87.1-87.1	922582257.6	6.5	—	—
PT REYES-VNDNBERG	18	83.7-90.0	445233364.7	1.9	7.9	1.9
PT REYES-WESTFORD	6	89.9-91.5	4248545124.9	11.8	26.4	4.1
PT REYES-YLOW7296	2	91.5-91.5	2750483260.2	7.8	7.8	1.5
PT REYES-YUMA	1	87.8-87.8	975980359.5	9.7	—	—
PVERDES -VNDNBERG	9	83.9-90.1	223065182.8	3.0	8.4	3.1
QUINCY -VNDNBERG	13	84.3-89.8	601887717.8	12.0	41.7	57.3
QUINCY -WESTFORD	2	89.8-89.8	4023819277.5	7.0	7.0	.4
RICHMOND-TROMSONO	1	89.6-89.6	7249939443.2	16.5	—	—
RICHMOND-WESTFORD	529	84.0-92.0	2044501754.7	.3	6.8	1.8
RICHMOND-WETTZELL	504	84.1-92.0	7588398566.9	1.4	30.4	5.8
RICHMOND-YLOW7296	1	91.6-91.6	4696400712.9	5.1	—	—
ROBLED32-WESTFORD	1	83.3-83.3	5300462984.7	27.5	—	—
SANPAULA-VNDNBERG	10	83.7-90.1	149776488.8	1.9	5.6	1.4
SANTIA12-SESHAN25	2	92.0-92.0	12693859204.6	8.0	8.0	.0
SANTIA12-WESTFORD	3	91.9-92.0	7791503432.6	9.4	13.3	.5
SANTIA12-WETTZELL	3	91.9-92.0	10460704356.4	17.6	24.9	.9
SEATTLE1-WESTFORD	3	86.7-90.6	3895645947.1	11.9	16.8	2.0
SESHAN25-WESTFORD	2	92.0-92.0	10157033692.8	10.5	10.5	.2
SESHAN25-WETTZELL	6	90.3-92.0	8003555623.5	7.8	17.5	1.0
SEST -WESTFORD	3	90.3-90.4	7447845586.7	6.5	9.1	.4
SINTOTU -USUDA64	1	90.6-90.6	872851759.3	8.6	—	—
SNDPOINT-VNDNBERG	3	84.5-86.6	3763664062.9	24.7	34.9	5.8
SNDPOINT-WESTFORD	8	88.5-90.5	5963589379.1	7.0	18.6	1.3
SOURDOGH-VNDNBERG	8	84.6-86.6	3527017009.3	10.7	28.3	4.1
SOURDOGH-WESTFORD	6	88.6-89.6	4992696150.4	5.6	12.4	1.0
SOURDOGH-WHTHORSE	3	84.6-86.6	591316579.1	3.4	4.9	.7
SOURDOGH-YAKATAGA	4	84.6-86.6	329299231.6	17.5	30.4	32.3
TROMSONO-WESTFORD	1	89.6-89.6	5474070358.4	11.3	—	—
TROMSONO-WETTZELL	4	89.6-89.6	2296324589.6	8.8	15.3	6.2
TRYSILNO-WESTFORD	6	91.9-92.0	5480563535.9	5.9	13.1	2.2
TRYSILNO-WETTZELL	5	91.9-92.0	1364743193.6	1.3	2.6	.7

Table 6.1 (continued)

Length Statistical Summary--Mean						
Baseline Name	Num Obs	Span yr to yr	Mean (mm)	Error (mm)	WRMS (mm)	Chi sgr
VERNAL -VNDNBERG	1	88.8-88.8	1165722334.2	4.7	—	—
VERNAL -WESTFORD	4	89.3-90.8	3132148591.5	7.3	12.7	1.8
VERNAL -YUMA	1	88.8-88.8	917552145.3	5.7	—	—
VICTORIA-WESTFORD	3	90.6-90.6	3967716619.5	4.0	5.6	.2
VNDNBERG-WESTFORD	12	89.8-91.6	4228947341.4	4.5	14.8	2.9
VNDNBERG-WHTHORSE	3	84.6-86.6	3058395622.7	20.4	28.9	5.9
VNDNBERG-YAKATAGA	4	84.6-86.6	3214772161.5	11.0	19.1	2.1
VNDNBERG-YUMA	19	83.8-88.8	620341828.1	9.2	39.0	77.5
WESTFORD-WETTZELL	659	83.9-92.0	5998325433.8	1.3	34.0	21.1
WESTFORD-WHTHORSE	4	88.6-89.6	4511164134.9	11.1	19.2	3.5
WESTFORD-YAKATAGA	7	88.6-90.4	4895738347.3	10.3	25.2	3.3
WESTFORD-YLOW7296	8	91.5-91.6	3506849217.2	2.2	5.9	1.3

Table 6.2

Length Statistical Summary--Rate of Change							
Baseline Name	Rate mm/yr	Error mm/yr	WRMS mm	Chi sq	Value at Epoch	Error mm	Corre- lation
ALGOPARK-GILCREEK	3.3	.8	8.5	1.8	4475699378.8	2.21	-.64
ALGOPARK-MOJAVE12	-2.3	1.5	8.5	2.7	3407219029.7	4.34	-.93
ALGOPARK-PENTICTN	6.9	3.9	20.2	2.6	3074234616.6	10.12	-.07
ALGOPARK-WESTFORD	-.7	.5	4.0	2.2	642611326.4	1.36	-.83
BLKBUTTE-HRAS 085	5.5	2.9	5.9	2.2	1158018149.9	3.74	.41
BLKBUTTE-MOJAVE12	2.5	1.9	6.9	2.1	213868855.6	2.77	.62
BLKBUTTE-MON PEAK	-1.1	4.0	4.3	1.2	107821846.6	7.21	.91
BLKBUTTE-VNDNBERG	27.7	2.2	7.1	2.6	462367712.6	2.80	.60
DEADMANL-MOJAVE12	4.4	8.8	12.4	4.8	131806790.9	8.03	.45
DEADMANL-SANPAULA	35.4	6.5	7.8	1.9	250758837.3	7.26	.64
DEADMANL-VNDNBERG	33.8	11.4	17.2	5.4	400134234.1	12.69	.62
DSS45 -GILCREEK	-59.2	7.5	24.1	2.4	10526654651.2	18.21	-.92
DSS45 -HOBART26	3.3	2.5	3.6	1.4	832194183.7	6.82	-.98
DSS45 -KASHIMA	-48.4	7.3	17.8	3.6	7436721522.9	15.29	-.92
DSS45 -KAUAI	-59.2	6.8	22.5	4.3	7769504790.2	15.99	-.92
DSS45 -SESHAN25	-62.4	5.0	18.0	2.5	7411129034.3	12.81	-.93
DSS65 -MEDICINA	1.9	.6	2.0	1.3	1378852886.7	1.68	-.91
DSS65 -NOTO	-5.7	3.4	4.5	9.1	1711832929.5	9.42	-.96
DSS65 -ONSALA60	.0	2.7	7.6	13.6	2205023112.7	6.46	-.91
DSS65 -WETZELL	-.4	1.2	4.1	5.7	1655418187.2	3.25	-.92
EFLSBERG-HAYSTACK	23.7	5.7	15.6	1.4	5591903719.4	37.65	.98
EFLSBERG-HRAS 085	13.0	12.4	32.2	1.6	8084184942.2	80.98	.98
EFLSBERG-ONSALA60	.2	2.1	5.5	2.4	832210508.8	13.50	.98
ELY -HATCREEK	3.6	1.7	6.5	2.1	590025840.7	2.44	.01
ELY -HRAS 085	1.3	2.0	8.0	1.8	1378547100.0	2.82	-.01
ELY -MOJAVE12	-6.6	1.7	9.1	3.3	475517247.4	2.89	-.08
FLAGSTAF-HATCREEK	8.4	.7	3.7	.4	1062209394.0	1.53	.19
FLAGSTAF-HRAS 085	1.7	2.2	5.2	1.2	879283110.3	3.91	.75
FLAGSTAF-MOJAVE12	3.8	.9	4.6	1.3	478050190.1	1.94	.29
FLAGSTAF-PLATTVIL	5.9	2.4	3.8	.6	820904455.6	5.44	.87
FORTORDS-GILCREEK	-42.0	5.0	12.8	1.5	3538522683.3	10.02	-.49
FORTORDS-MOJAVE12	33.8	2.1	5.2	1.9	462074913.7	3.24	-.70
FORT ORD-HATCREEK	-30.6	4.0	14.8	5.9	461111213.1	6.94	.66
FORT ORD-HRAS 085	35.3	4.1	6.2	1.1	1774675725.8	7.76	.82
FORT ORD-MOJAVE12	33.5	1.6	5.9	2.2	464719669.6	2.33	.54
FORT ORD-OVRO 130	13.8	1.8	4.1	1.0	317067344.6	4.88	.88
FORT ORD-PRESIDIO	-10.3	3.0	6.6	2.4	139787380.4	5.73	.59
FORT ORD-VNDNBERG	1.0	1.4	5.5	1.0	256852440.2	2.28	.59
GILCREEK-GOLDVENU	-13.6	4.0	6.2	5.8	3827523791.7	11.11	-.92
GILCREEK-HATCREEK	-8.0	.8	9.7	2.3	3126752890.5	1.36	-.45

Table 6.2 (continued)

Length Statistical Summary--Rate of Change							
Baseline Name	Rate mm/yr	Error mm/yr	WRMS mm	Chi sqr	Value at Epoch	Error mm	Corre- lation
GILCREEK-HAYSTACK	-2.3	2.2	4.9	3.9	5039482226.1	4.11	-.97
GILCREEK-HOBART26	-19.2	10.3	35.7	2.5	10953029842.3	27.77	-.97
GILCREEK-HRAS 085	2.7	1.7	11.6	2.4	4725812330.8	1.60	.10
GILCREEK-KASHIMA	-1.3	.6	11.9	2.2	5427104371.5	1.14	-.21
GILCREEK-KAUAI	-44.3	.4	10.4	2.6	4728114594.1	1.14	-.80
GILCREEK-KODIAK	-3.8	.9	4.6	.7	848553596.5	1.42	-.44
GILCREEK-KWAJAL26	-20.7	4.7	26.6	3.1	6719676558.9	9.81	.75
GILCREEK-MOJAVE12	-9.9	.2	5.9	2.2	3816209157.2	.57	-.78
GILCREEK-NOME	-1.5	.8	5.5	1.2	848263841.4	2.00	.23
GILCREEK-NRAO85 3	-.5	1.4	12.1	2.5	5034926347.9	4.38	-.97
GILCREEK-ONSALA60	16.0	2.1	11.5	2.4	6066488145.8	5.31	-.73
GILCREEK-OVRO 130	-17.4	2.5	7.8	1.7	3584055701.2	2.54	.22
GILCREEK-PENTICTN	6.4	1.8	7.3	.8	2374175685.6	4.55	-.37
GILCREEK-PIETOWN	-6.1	1.2	4.0	4.2	4225114884.0	2.72	-.96
GILCREEK-PLATTVIL	5.6	2.3	11.0	1.6	3810424342.8	4.08	-.31
GILCREEK-PRESIDIO	-29.0	4.3	7.9	.7	3396404688.5	5.74	-.10
GILCREEK-PT REYES	-32.5	2.4	9.8	1.0	3352262241.3	5.31	-.81
GILCREEK-RICHMOND	1.1	1.2	14.5	1.6	6117758537.4	3.70	-.94
GILCREEK-SESHAN25	-11.2	5.2	22.0	5.2	6635555882.3	11.88	-.88
GILCREEK-SNDPOINT	2.2	2.4	12.0	3.2	1284477828.5	4.42	-.58
GILCREEK-SOURDOGH	2.4	1.6	4.6	1.9	276378193.5	3.31	.84
GILCREEK-VNDNBERG	-40.6	.8	11.4	2.6	3775849557.0	1.30	-.13
GILCREEK-WESTFORD	-.4	.5	8.2	4.3	5040099887.5	1.21	-.85
GILCREEK-WETTZELL	10.6	1.2	6.7	1.7	6856771510.5	4.13	-.96
GILCREEK-WTHORSE	-3.8	3.8	10.9	7.1	788869901.2	4.76	-.49
GILCREEK-YAKATAGA	-32.5	1.8	5.3	1.5	603048937.8	3.19	.65
GOLDVENU-HAYSTACK	1.4	4.7	16.9	30.9	3900825671.4	16.42	-.69
GOLDVENU-MOJAVE12	-.3	.9	2.8	4.9	12567223.4	3.03	.84
GOLDVENU-ONSALA60	10.0	4.4	22.1	7.3	8024928146.4	15.06	-.68
GOLDVENU-OVRO 130	1.9	1.2	6.4	3.4	257587466.8	5.08	.77
GOLDVENU-WESTFORD	3.1	2.3	9.9	3.5	3900445514.5	8.22	.52
GORF7102-MOJAVE12	7.9	7.5	10.0	3.4	3506892267.7	25.36	-.97
GORF7102-NRAO85 3	3.4	1.3	1.7	.7	270278761.8	4.06	-.95
GORF7102-RICHMOND	6.9	2.5	5.1	1.3	1519989245.7	7.50	-.94
GORF7102-WESTFORD	.0	3.0	6.9	3.7	600947760.9	8.63	-.93
HARTRAO -HRAS 085	8.6	17.5	28.0	.9	11878469240.2	19.24	-.69
HARTRAO -MEDICINA	11.0	10.0	18.1	1.5	7453222495.4	18.72	-.83
HARTRAO -ONSALA60	28.5	7.9	27.2	1.4	8525165648.8	12.41	.20
HARTRAO -RICHMOND	12.1	2.9	33.9	1.6	10814591279.7	8.00	-.73
HARTRAO -WESTFORD	14.0	2.9	37.2	2.0	10658658435.7	7.93	-.74

Table 6.2 (continued)

Length Statistical Summary--Rate of Change							
Baseline Name	Rate mm/yr	Error mm/yr	WRMS mm	Chi sq	Value at Epoch	Error mm	Correlation
HARTRAO -WETTZELL	-2.5	1.8	21.5	1.7	7832322560.2	4.91	-.75
HATCREEK-HRAS 085	8.4	.8	9.8	2.6	1933473667.7	1.29	.20
HATCREEK-KASHIMA	-9.3	3.3	19.7	3.2	7557328237.7	5.57	.33
HATCREEK-KAUAI	5.0	1.3	7.8	1.5	4061718602.8	2.02	.09
HATCREEK-MOJAVE12	-.5	.3	6.7	2.7	729148669.0	.59	-.23
HATCREEK-MON PEAK	-28.6	1.6	14.0	4.7	986815215.6	3.03	.16
HATCREEK-OVRO 130	-2.4	.7	7.0	2.3	484321523.6	1.60	.68
HATCREEK-PLATTVIL	6.3	.9	7.9	2.1	1416314071.5	1.78	.15
HATCREEK-PRESIDIO	-16.7	1.9	6.5	1.6	344991835.9	2.76	.52
HATCREEK-PT REYES	-20.3	1.5	7.4	1.7	326628750.6	2.21	-.45
HATCREEK-QUINCY	-2.6	.6	4.9	1.1	103712238.0	1.29	.20
HATCREEK-VERNAL	11.1	1.4	5.4	1.4	1007489458.1	2.46	-.45
HATCREEK-VNDNBERG	-32.6	.6	7.8	3.0	698706402.0	.93	-.48
HATCREEK-WESTFORD	7.5	1.4	11.9	2.7	4032819075.8	3.07	-.71
HATCREEK-YUMA	10.4	3.6	11.0	3.5	1086071228.0	3.85	.42
HAYSTACK-HRAS 085	.9	.9	13.4	1.8	3135641006.2	4.40	.85
HAYSTACK-MOJAVE12	.5	.9	4.4	3.4	3904144265.3	1.67	-.83
HAYSTACK-NRAO 140	1.4	2.0	3.0	1.6	845129862.9	13.31	.99
HAYSTACK-ONSALA60	17.7	.5	13.3	2.2	5599714585.9	2.65	.60
HAYSTACK-OVRO 130	3.9	.8	10.0	1.6	3928881656.2	4.79	.92
HAYSTACK-WESTFORD	-.2	.2	1.6	1.3	1239395.8	.43	-.66
HAYSTACK-WETTZELL	12.9	8.3	12.7	3.4	5997390746.9	20.67	.95
HOBART26-KAUAI	-41.8	7.3	17.2	1.5	8268576733.2	19.46	-.97
HRAS 085-KASHIMA	21.2	15.7	51.6	2.7	9027663354.6	11.97	-.51
HRAS 085-MOJAVE12	5.7	.4	7.1	3.4	1313368176.3	.62	.11
HRAS 085-MON PEAK	34.3	.9	8.5	2.2	1205751673.8	1.68	.42
HRAS 085-NRAO 140	-1.0	1.0	6.7	3.0	2354634001.8	4.49	.66
HRAS 085-ONSALA60	13.2	1.2	29.4	2.0	7940732270.3	3.15	.41
HRAS 085-OVRO 130	7.6	.4	7.9	2.1	1508195428.1	1.34	.71
HRAS 085-PLATTVIL	-.4	1.1	7.4	1.8	1060499647.8	2.03	.51
HRAS 085-QUINCY	8.5	2.5	16.3	5.5	1849591451.9	4.77	.15
HRAS 085-RICHMOND	2.2	.3	9.8	1.9	2362632826.6	.52	.05
HRAS 085-VERNAL	1.1	3.4	7.9	2.9	1187981358.3	4.08	-.26
HRAS 085-VNDNBERG	35.7	.9	8.2	2.1	1617713903.4	1.29	.17
HRAS 085-WESTFORD	-1.1	.3	12.8	2.9	3134928007.2	.53	.18
HRAS 085-WETTZELL	14.7	.7	23.5	1.5	8417561517.5	1.17	-.14
HRAS 085-YUMA	1.6	1.9	8.0	3.0	1002949391.5	2.66	.66
JPL MV1 -MAMMOTHL	-11.6	5.3	10.9	2.6	387649646.2	15.20	.86
JPL MV1 -MOJAVE12	5.9	1.2	9.0	3.2	171686446.7	2.86	.69
JPL MV1 -OVRO 130	-12.0	2.0	16.2	4.7	335941379.1	5.72	.73

Table 6.2 (continued)

Length Statistical Summary--Rate of Change							
Baseline Name	Rate mm/yr	Error mm/yr	WRMS mm	Chi sqr	Value at Epoch	Error mm	Corre- lation
JPL MV1 -PBLOSSOM	-2.6	2.3	7.5	1.3	41155677.3	6.66	.86
JPL MV1 -PINFLATS	5.2	2.3	3.9	.7	171805098.6	4.28	.89
JPL MV1 -VNDNBERG	8.2	1.5	7.8	2.5	228030987.8	2.47	.62
KASHIMA -KAUAI	-63.3	1.0	13.1	2.8	5709360249.1	1.64	-.05
KASHIMA -KWAJAL26	-70.6	3.0	14.5	2.4	3936330523.6	6.24	.78
KASHIMA -MOJAVE12	-7.6	1.3	18.9	2.5	8091824105.2	2.58	.06
KASHIMA -ONSALA60	-9.3	7.2	34.4	7.9	7969643049.2	15.81	-.23
KASHIMA -RICHMOND	8.7	6.3	33.8	1.3	10279840848.5	10.66	-.79
KASHIMA -SESHAN25	-28.2	3.4	10.9	5.2	1875920127.1	6.39	-.88
KASHIMA -TSUKUBA	-3.1	2.5	7.7	1.1	54548550.3	3.88	.47
KASHIMA -VNDNBERG	-35.6	3.3	23.0	4.1	7913888138.4	5.05	.41
KASHIMA -WESTFORD	.9	6.5	26.8	3.7	9502316533.8	10.94	-.06
KASHIMA -WETTZELL	-20.5	4.5	26.4	2.9	8475826934.6	8.40	-.11
KAUAI -KWAJAL26	.2	2.9	17.1	3.1	3725196315.0	6.24	.76
KAUAI -MOJAVE12	20.2	.5	8.7	2.9	4303581295.1	1.47	-.66
KAUAI -NRAO85 3	11.2	2.3	19.0	2.7	7208031467.3	7.19	-.97
KAUAI -RICHMOND	29.2	2.8	20.1	2.0	7452634330.0	8.68	-.97
KAUAI -SESHAN25	-83.1	4.5	19.5	3.1	7310294139.3	10.24	-.88
KAUAI -VNDNBERG	2.3	1.8	15.5	5.4	3972522448.9	2.96	.30
KODIAK -MOJAVE12	-1.4	3.1	9.8	1.1	3574416154.6	4.70	-.68
KODIAK -NOME	-20.9	4.0	4.1	.2	1024053235.7	8.22	.93
KODIAK -VNDNBERG	-62.2	24.2	17.7	1.8	3459022016.4	41.64	.95
KWAJAL26-MOJAVE12	14.1	6.2	29.7	3.2	7576938642.5	14.32	.84
KWAJAL26-VNDNBERG	-3.2	11.7	36.2	5.6	7298104563.4	24.44	.88
MAMMOTHL-MOJAVE12	6.1	2.0	3.7	.6	315785230.1	4.94	.85
MAMMOTHL-OVRO 130	3.3	2.3	4.2	1.1	74255501.1	5.81	.86
MARPOINT-RICHMOND	.6	4.4	12.9	2.5	1442649214.4	5.82	-.87
MARPOINT-WESTFORD	1.4	1.5	12.0	5.3	676178922.8	4.96	.41
MEDICINA-ONSALA60	-2.1	1.3	5.0	5.0	1429470398.9	3.00	-.86
MEDICINA-WETTZELL	-2.2	.5	2.7	1.7	522461130.6	1.09	-.83
MOJAVE12-MON PEAK	-22.1	.9	9.5	3.9	274055769.2	1.84	.46
MOJAVE12-NOTO	-2.5	6.1	15.7	1.0	9422863905.2	15.54	-.93
MOJAVE12-NRAO85 3	-.3	1.9	4.1	.9	3262045659.1	6.35	-.97
MOJAVE12-ONSALA60	9.8	1.6	19.9	3.9	8021117525.8	3.74	-.61
MOJAVE12-OVRO 130	2.1	.4	6.3	2.7	245276456.5	.96	.67
MOJAVE12-PBLOSSOM	1.3	1.8	6.7	2.6	131184787.6	4.25	.80
MOJAVE12-PIETOWN	1.5	1.0	3.7	9.8	809730830.8	2.27	-.96
MOJAVE12-PINFLATS	-11.9	.8	5.6	1.2	195109702.0	1.46	.46
MOJAVE12-PLATTVIL	-.4	.8	6.8	1.9	1196316951.1	1.58	.18
MOJAVE12-PRESIDIO	21.3	1.5	7.6	2.9	568654974.9	2.27	.29

Table 6.2 (continued)

Length Statistical Summary--Rate of Change							
Baseline Name	Rate mm/yr	Error mm/yr	WRMS mm	Chi sqr	Value at Epoch	Error mm	Corre- lation
MOJAVE12-PT REYES	28.5	.8	5.3	1.3	621424830.1	1.46	-.52
MOJAVE12-PVERDES	-3.6	1.2	5.0	1.1	224483711.3	2.01	-.37
MOJAVE12-QUINCY	2.5	1.1	8.7	3.1	627137773.4	2.04	.02
MOJAVE12-RICHMOND	4.6	.9	8.9	2.6	3594693010.1	2.44	-.96
MOJAVE12-SANPAULA	11.5	1.3	5.9	1.6	219618292.2	2.23	-.34
MOJAVE12-SNDPOINT	-22.6	6.0	13.4	1.4	3916865290.2	10.12	-.88
MOJAVE12-VERNAL	-1.3	1.5	5.5	1.6	848884616.7	2.51	-.46
MOJAVE12-VNDNBERG	16.8	.3	5.9	3.2	351282525.7	.47	-.13
MOJAVE12-WESTFORD	.5	.3	7.1	2.6	3903767758.5	.66	-.84
MOJAVE12-WETTZELL	7.4	.8	14.4	2.2	8588976444.9	2.46	-.92
MOJAVE12-YAKATAGA	33.1	7.0	11.7	1.9	3273878615.1	9.61	.28
MOJAVE12-YUMA	7.4	1.2	5.8	2.0	362912405.1	1.75	.66
MON PEAK-OVRO 130	-24.9	1.5	11.2	3.9	510423682.6	4.01	.75
MON PEAK-QUINCY	-25.9	3.2	17.7	6.3	883538160.3	5.98	.45
MON PEAK-VNDNBERG	2.8	1.5	10.2	6.2	430216041.1	2.31	.43
MON PEAK-YUMA	28.0	2.0	4.7	2.1	207727043.4	3.68	.85
NOME -VNDNBERG	-57.0	13.7	22.6	1.6	4388694027.4	29.70	.94
NOTO -ONSALA60	-3.4	4.3	7.2	10.4	2280154895.5	11.62	-.96
NOTO -RICHMOND	12.1	4.8	11.9	.7	8115263563.2	12.78	-.94
NOTO -WESTFORD	15.5	3.2	8.4	.8	6744637366.2	7.80	-.92
NOTO -WETTZELL	-6.0	1.2	4.3	2.5	1371101071.5	3.07	-.95
NRAO85 3-RICHMOND	2.2	.9	7.2	2.3	1419169131.6	2.74	-.97
NRAO85 3-WESTFORD	4.0	2.0	3.8	2.8	845216061.6	6.71	-.97
NRAO 140-OVRO 130	3.2	1.4	11.5	5.8	3324244219.3	7.66	.79
NRAO 140-WESTFORD	.5	.3	3.3	1.9	844148087.2	1.52	.24
ONSALA60-OVRO 130	12.2	2.1	29.7	3.0	7914131050.7	9.99	.85
ONSALA60-RICHMOND	16.0	1.5	20.1	2.7	7307152565.1	3.52	-.72
ONSALA60-WESTFORD	17.2	.5	13.3	2.9	5600741529.4	1.11	-.22
ONSALA60-WETTZELL	-.6	.2	4.7	2.7	919660998.3	.44	-.42
OVRO 130-PBLOSSOM	-7.7	1.5	4.2	.4	303497787.3	4.12	.89
OVRO 130-PINFLATS	-15.6	3.4	7.0	1.2	434649313.0	6.98	.89
OVRO 130-PLATTVIL	2.7	2.6	9.2	3.9	1220818764.7	4.70	.68
OVRO 130-PRESIDIO	16.8	2.1	8.3	3.9	374258389.2	4.05	.55
OVRO 130-PT REYES	23.7	1.7	6.0	1.5	421766841.5	3.38	.47
OVRO 130-QUINCY	-1.2	1.4	9.3	3.5	382696343.3	3.46	.63
OVRO 130-VNDNBERG	-8.8	.9	8.7	2.5	363980300.6	1.70	.63
OVRO 130-WESTFORD	3.3	.8	11.0	2.7	3928579377.9	2.96	.70
OVRO 130-WETTZELL	17.2	12.3	26.8	5.9	8500205042.8	23.19	.86
OVRO 130-YUMA	3.5	2.4	4.6	.9	603989388.7	4.48	.89
PBLOSSOM-VNDNBERG	16.6	1.7	6.1	1.9	247362549.9	3.74	.79

Table 6.2 (continued)

Length Statistical Summary--Rate of Change							
Baseline Name	Rate mm/yr	Error mm/yr	WRMS mm	Chi sqr	Value at Epoch	Error mm	Corre- lation
PIETOWN -WESTFORD	-1.6	1.1	4.0	4.8	3262799700.9	2.52	-.96
PINFLATS-VNDNBERG	17.0	1.0	6.2	1.4	397781433.9	1.62	.43
PINFLATS-YUMA	25.0	7.2	9.1	4.7	222910534.0	11.20	.91
PLATTVIL-WESTFORD	3.3	2.2	11.0	2.6	2752862689.8	3.73	-.19
PRESIDIO-VNDNBERG	-13.6	1.7	8.5	2.3	396580070.8	2.51	.28
PT REYES-VNDNBERG	-2.6	1.2	7.0	1.6	445233366.0	1.84	-.32
PVERDES -VNDNBERG	3.9	1.3	5.7	1.6	223065180.6	2.27	-.33
QUINCY -VNDNBERG	-29.9	1.8	8.0	2.3	601887725.5	2.46	-.19
RICHMOND-WESTFORD	-.2	.1	6.8	1.8	2044501755.0	.36	-.55
RICHMOND-WETTZELL	14.2	.4	16.5	1.7	7588398542.6	1.02	-.69
SANPAULA-VNDNBERG	2.2	1.0	4.5	1.0	149776487.4	1.71	-.38
SOURDOGH-VNDNBERG	-33.2	10.7	17.5	1.8	3527016944.4	22.11	.95
SOURDOGH-YAKATAGA	-36.4	3.7	4.3	1.0	329299147.7	9.02	.94
VNDNBERG-YAKATAGA	20.5	11.5	11.8	1.2	3214772204.4	25.40	.94
VNDNBERG-YUMA	38.3	1.8	7.5	3.0	620341861.7	2.41	.66
WESTFORD-WETTZELL	17.2	.2	11.0	2.2	5998325402.6	.60	-.70

Table 6.3

Transverse Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Sqr	Rate mm/yr	Error mm/yr	WRMS mm	Chi Sqr
ALGOPARK-GILCREEK	27	84.7-91.6	5.6	14.0	10.51	-5.9	.6	6.2	2.14
ALGOPARK-HRAS 085	5	84.7-85.7	5.2	5.4	2.11	—	—	—	—
ALGOPARK-KAUAI	7	90.5-91.6	25.9	32.5	26.66	—	—	—	—
ALGOPARK-KODIAK	3	90.5-90.5	.4	4.7	.96	—	—	—	—
ALGOPARK-MATERA	3	91.4-91.6	4.2	7.2	2.12	—	—	—	—
ALGOPARK-MOJAVE12	29	85.6-91.6	2.0	6.3	3.24	3.1	.9	5.3	2.34
ALGOPARK-NRAO85 3	7	90.5-91.6	2.4	4.7	1.40	—	—	—	—
ALGOPARK-PENTICTN	6	84.7-90.6	7.1	13.4	5.15	-3.7	1.7	9.0	2.93
ALGOPARK-RICHMOND	15	90.5-91.6	4.2	9.1	7.77	—	—	—	—
ALGOPARK-SNDPOINT	3	90.5-90.5	1.9	4.2	.50	—	—	—	—
ALGOPARK-VICTORIA	3	90.6-90.6	2.7	4.8	.89	—	—	—	—
ALGOPARK-WESTFORD	29	84.7-91.6	1.8	6.3	5.79	-2.3	.7	5.4	4.38
ALGOPARK-WETTZELL	12	90.5-91.6	2.6	7.3	2.01	—	—	—	—
ALGOPARK-YELLOWKN	2	84.7-85.7	.1	3.1	.70	—	—	—	—
ALGOPARK-YLOW7296	2	91.5-91.6	.5	11.0	24.50	—	—	—	—
AUSTINTX-HRAS 085	1	87.5-87.5	3.9	—	—	—	—	—	—
AUSTINTX-RICHMOND	1	87.5-87.5	4.4	—	—	—	—	—	—
AUSTINTX-WESTFORD	1	87.5-87.5	5.2	—	—	—	—	—	—
BERMUDA -MARPOINT	3	87.6-87.6	48.7	25.4	10.10	—	—	—	—
BERMUDA -RICHMOND	4	87.6-87.6	7.8	7.0	.94	—	—	—	—
BERMUDA -WESTFORD	4	87.6-87.6	3.4	4.4	.65	—	—	—	—
BLKBUTTE-ELY	2	88.8-88.8	4.4	5.0	2.28	—	—	—	—
BLKBUTTE-HATCREEK	5	87.1-88.8	8.9	8.4	2.84	—	—	—	—
BLKBUTTE-HRAS 085	5	83.9-88.8	4.2	7.1	1.68	-3.4	2.9	5.9	1.52
BLKBUTTE-MOJAVE12	12	83.9-88.8	1.9	5.2	1.89	3.5	.7	2.9	.64
BLKBUTTE-MON PEAK	4	83.9-86.8	8.4	11.9	8.25	22.1	3.1	2.3	.46
BLKBUTTE-OCOTILLO	2	84.2-85.0	2.1	2.8	.22	—	—	—	—
BLKBUTTE-OVRO 130	3	86.4-87.8	9.1	8.2	5.78	—	—	—	—
BLKBUTTE-PRESIDIO	2	87.4-87.8	16.2	5.1	1.03	—	—	—	—
BLKBUTTE-PT REYES	1	87.1-87.1	6.0	—	—	—	—	—	—
BLKBUTTE-VNDNBERG	12	83.9-88.8	12.3	30.1	27.68	26.0	1.6	5.8	1.15
BLOOMIND-HRAS 085	1	87.6-87.6	11.6	—	—	—	—	—	—
BLOOMIND-WESTFORD	1	87.6-87.6	12.4	—	—	—	—	—	—
BREST -MOJAVE12	2	89.7-89.7	17.2	11.2	4.29	—	—	—	—
BREST -NOTO	4	89.7-89.7	7.2	7.0	1.52	—	—	—	—
BREST -ONSALA60	1	89.7-89.7	5.3	—	—	—	—	—	—
BREST -RICHMOND	1	89.7-89.7	8.6	—	—	—	—	—	—
BREST -WESTFORD	2	89.7-89.7	15.8	12.2	7.10	—	—	—	—
BREST -WETTZELL	4	89.7-89.7	12.1	10.8	5.07	—	—	—	—
CARNUSTY-MOJAVE12	1	89.6-89.6	7.6	—	—	—	—	—	—

Table 6.3 (continued)

Transverse Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Sqr	Rate mm/yr	Error mm/yr	WRMS mm	Chi Sqr
CARNUSTY-RICHMOND	1	89.6-89.6	7.5	—	—	—	—	—	—
CARNUSTY-WESTFORD	1	89.6-89.6	5.9	—	—	—	—	—	—
CARNUSTY-WETTZELL	4	89.6-89.6	4.0	8.7	1.82	—	—	—	—
CARROLGA-HRAS 085	1	87.5-87.5	8.4	—	—	—	—	—	—
CARROLGA-RICHMOND	1	87.5-87.5	9.0	—	—	—	—	—	—
CARROLGA-WESTFORD	1	87.5-87.5	7.8	—	—	—	—	—	—
CHLBOLTN-HAYSTACK	7	80.8-80.8	7.9	7.8	1.32	—	—	—	—
CHLBOLTN-HRAS 085	7	80.8-80.8	5.3	7.2	.69	—	—	—	—
CHLBOLTN-ONSALA60	7	80.8-80.8	6.1	7.4	1.87	—	—	—	—
CHLBOLTN-OVRO 130	6	80.8-80.8	11.6	10.3	1.30	—	—	—	—
DEADMANL-JPL MV1	1	88.1-88.1	8.9	—	—	—	—	—	—
DEADMANL-MOJAVE12	5	84.2-88.1	5.0	6.8	2.05	5.9	4.1	5.2	1.61
DEADMANL-SANPAULA	4	84.2-87.9	12.6	15.1	2.52	15.6	7.2	8.3	1.14
DEADMANL-VNDNBERG	5	84.2-88.1	21.7	27.1	7.49	29.7	7.9	11.3	1.73
DSS15 -GILCREEK	2	88.9-89.6	7.1	3.3	2.13	—	—	—	—
DSS15 -GOLDVENU	1	87.8-87.8	2.5	—	—	—	—	—	—
DSS15 -HAYSTACK	2	88.9-89.6	.9	.6	.07	—	—	—	—
DSS15 -MOJAVE12	1	87.8-87.8	1.7	—	—	—	—	—	—
DSS15 -MOJ 7288	1	87.8-87.8	2.0	—	—	—	—	—	—
DSS15 -OVRO 130	2	87.8-88.9	1.1	1.2	.33	—	—	—	—
DSS15 -OVR 7853	1	87.8-87.8	2.8	—	—	—	—	—	—
DSS15 -YAKATAGA	1	89.6-89.6	4.8	—	—	—	—	—	—
DSS45 -GILCREEK	13	88.5-91.7	14.6	22.2	5.88	19.5	2.6	9.1	1.09
DSS45 -HARTRAO	4	91.3-91.9	5.3	9.3	1.25	—	—	—	—
DSS45 -HOBART26	8	89.9-91.9	.8	2.8	.94	-1.2	1.6	2.7	1.00
DSS45 -KASHIM34	5	90.2-91.7	14.6	14.6	5.40	—	—	—	—
DSS45 -KASHIMA	11	88.5-91.4	15.8	25.5	14.21	-30.4	2.4	5.9	.83
DSS45 -KAUAI	15	88.4-91.7	16.9	42.8	28.28	-41.4	2.6	9.4	1.49
DSS45 -KWAJAL26	3	88.5-88.6	2.2	3.6	.22	—	—	—	—
DSS45 -MEDICINA	1	91.8-91.8	18.3	—	—	—	—	—	—
DSS45 -MOJAVE12	1	88.4-88.4	12.4	—	—	—	—	—	—
DSS45 -SANTIA12	1	91.9-91.9	12.4	—	—	—	—	—	—
DSS45 -SESHAN25	16	88.5-91.8	11.6	20.1	7.00	-16.9	2.9	10.8	2.18
DSS45 -WETTZELL	2	91.3-91.5	70.9	18.1	6.39	—	—	—	—
DSS65 -EFLSBERG	1	91.9-91.9	1.9	—	—	—	—	—	—
DSS65 -HRAS 085	1	88.8-88.8	4.7	—	—	—	—	—	—
DSS65 -MATERA	6	90.4-91.9	12.1	5.7	6.06	—	—	—	—
DSS65 -MEDICINA	10	88.7-91.9	2.6	4.6	4.72	-3.3	.9	2.7	1.85
DSS65 -MOJAVE12	1	88.8-88.8	4.6	—	—	—	—	—	—
DSS65 -NOTO	5	89.4-91.7	7.3	6.6	11.26	-7.7	2.6	3.3	3.82

Table 6.3 (continued)

Transverse Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Sqr	Rate mm/yr	Error mm/yr	WRMS mm	Chi Sqr
DSS65 -ONSALA60	10	88.8-91.7	3.5	5.6	5.61	-5.1	1.0	2.8	1.57
DSS65 -RICHMOND	3	88.7-89.0	4.2	5.7	1.11	—	—	—	—
DSS65 -WESTFORD	5	88.7-89.4	.5	2.6	.43	—	—	—	—
DSS65 -WETTZELL	12	88.7-91.9	2.3	3.7	2.99	-2.6	.8	2.6	1.57
EFLSBERG-HAYSTACK	7	79.9-83.3	7.3	20.1	8.06	-9.4	5.6	16.1	6.17
EFLSBERG-HRAS 085	6	80.6-83.3	22.8	31.3	13.15	-19.5	14.5	25.9	11.28
EFLSBERG-MATERA	1	91.9-91.9	1.9	—	—	—	—	—	—
EFLSBERG-MEDICINA	1	91.9-91.9	1.5	—	—	—	—	—	—
EFLSBERG-NRAO 140	1	79.9-79.9	25.3	—	—	—	—	—	—
EFLSBERG-ONSALA60	6	80.6-83.3	2.2	5.9	1.08	-3.0	2.0	4.7	.86
EFLSBERG-OVRO 130	6	79.9-80.7	11.5	23.7	5.34	—	—	—	—
EFLSBERG-ROBLED32	1	83.3-83.3	8.9	—	—	—	—	—	—
EFLSBERG-WESTFORD	1	83.3-83.3	6.2	—	—	—	—	—	—
EFLSBERG-WETTZELL	1	91.9-91.9	1.0	—	—	—	—	—	—
ELY -HATCREEK	9	85.3-89.3	6.0	13.0	4.26	2.3	3.1	12.6	4.52
ELY -HRAS 085	10	84.3-89.3	3.7	13.9	4.87	-7.2	1.4	6.6	1.24
ELY -MOJAVE12	12	84.3-90.8	2.2	5.6	1.63	2.3	.7	4.0	.91
ELY -OVRO 130	1	86.3-86.3	5.6	—	—	—	—	—	—
ELY -PLATTVIL	3	84.3-86.3	2.7	4.7	.32	—	—	—	—
ELY -VNDNBERG	5	87.4-88.8	5.1	19.7	12.66	—	—	—	—
ELY -WESTFORD	4	89.3-90.8	2.0	3.3	.19	—	—	—	—
ELY -YUMA	3	87.4-88.3	2.6	4.0	.57	—	—	—	—
FD-VLBA -HRAS 085	4	91.3-91.4	.3	.5	1.24	—	—	—	—
FLAGSTAF-HATCREEK	8	84.3-90.9	4.8	8.6	1.83	-1.0	1.5	8.3	2.00
FLAGSTAF-HRAS 085	6	84.3-88.8	5.3	9.4	2.63	-1.8	3.6	9.1	3.09
FLAGSTAF-MOJAVE12	8	84.3-90.9	7.3	15.4	7.42	6.8	1.1	5.8	1.22
FLAGSTAF-PLATTVIL	4	84.3-88.8	6.0	7.3	1.33	-3.1	2.9	5.8	1.29
FLAGSTAF-VERNAL	2	87.3-88.3	2.5	5.3	2.37	—	—	—	—
FLAGSTAF-WESTFORD	2	90.8-90.9	5.7	6.0	1.40	—	—	—	—
FORTORDS-GILCREEK	17	88.9-91.6	2.9	8.7	2.86	9.9	2.1	4.8	.99
FORTORDS-HATCREEK	16	88.9-90.1	2.7	9.3	5.95	—	—	—	—
FORTORDS-HAYSTACK	1	89.8-89.8	8.6	—	—	—	—	—	—
FORTORDS-MOJAVE12	19	88.9-91.6	10.5	37.9	62.52	22.9	2.3	6.0	1.74
FORTORDS-OVRO 130	2	88.9-88.9	3.3	2.2	.24	—	—	—	—
FORTORDS-PRESIDIO	3	89.8-89.9	3.8	3.6	.49	—	—	—	—
FORTORDS-PT REYES	5	88.9-89.9	5.1	15.2	8.42	—	—	—	—
FORTORDS-QUINCY	2	89.8-89.8	1.3	2.5	.28	—	—	—	—
FORTORDS-VNDNBERG	17	88.9-90.1	4.9	15.8	12.62	—	—	—	—
FORTORDS-WESTFORD	11	89.8-91.6	13.9	32.6	33.84	—	—	—	—
FORTORDS-YLOW7296	2	91.6-91.6	12.2	5.1	1.93	—	—	—	—

Table 6.3 (continued)

Transverse Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Sqr	Rate mm/yr	Error mm/yr	WRMS mm	Chi Sqr
FORT ORD-GILCREEK	4	88.1-88.1	1.1	4.5	.95	—	—	—	—
FORT ORD-HATCREEK	10	84.2-88.1	24.0	30.1	50.84	22.3	2.9	10.6	7.02
FORT ORD-HRAS 085	4	85.2-87.8	7.5	14.3	4.31	12.4	3.3	5.0	.79
FORT ORD-JPL MV1	1	87.8-87.8	5.5	—	—	—	—	—	—
FORT ORD-MOJAVE12	11	83.7-88.1	12.4	28.6	29.55	19.4	1.8	7.6	2.29
FORT ORD-MON PEAK	1	87.1-87.1	5.2	—	—	—	—	—	—
FORT ORD-OVRO 130	5	83.7-87.8	20.7	45.3	52.78	30.2	5.4	13.3	6.08
FORT ORD-PRESIDIO	4	83.7-88.1	9.5	9.4	5.12	3.5	3.1	7.4	4.73
FORT ORD-PT REYES	3	87.4-88.1	9.4	6.2	1.80	—	—	—	—
FORT ORD-VNDNBERG	11	83.7-88.1	2.9	7.5	2.98	1.6	1.7	7.2	3.00
FTD 7900-HRAS 085	1	88.8-88.8	2.5	—	—	—	—	—	—
FTD 7900-MOJAVE12	1	88.8-88.8	3.5	—	—	—	—	—	—
FTD 7900-PIETOWN	1	88.8-88.8	2.7	—	—	—	—	—	—
FTD 7900-WESTFORD	1	88.8-88.8	6.5	—	—	—	—	—	—
GILCREEK-GOLDVENU	4	88.5-91.6	7.8	9.0	11.70	-6.3	2.7	4.7	4.80
GILCREEK-HALEAKAL	3	88.5-88.5	3.3	3.8	.55	—	—	—	—
GILCREEK-HARTRAO	4	90.4-92.0	7.2	17.3	2.71	—	—	—	—
GILCREEK-HATCREEK	65	85.4-90.8	1.4	6.8	2.98	.8	.6	6.7	2.94
GILCREEK-HAYSTACK	23	84.7-91.6	3.2	8.5	9.52	-7.8	.8	3.7	1.89
GILCREEK-HOBART26	29	89.7-92.0	6.2	19.1	3.38	19.3	3.8	13.7	1.80
GILCREEK-HRAS 085	55	84.7-89.5	2.4	11.1	8.21	-8.8	.6	4.9	1.63
GILCREEK-KASHIM34	22	90.2-92.0	3.8	11.2	4.33	—	—	—	—
GILCREEK-KASHIMA	117	84.6-91.9	6.5	34.3	41.66	20.3	.3	5.6	1.11
GILCREEK-KAUAI	236	84.5-92.0	13.7	130.0	706.43	65.3	.2	6.6	1.85
GILCREEK-KODIAK	15	84.6-90.5	3.7	11.7	10.88	8.2	.9	4.3	1.57
GILCREEK-KWAJAL26	19	84.5-88.6	50.6	122.3	365.96	88.5	1.8	10.0	2.59
GILCREEK-LA-VLBA	11	91.4-91.9	4.8	6.8	5.51	—	—	—	—
GILCREEK-MARCUS	1	90.5-90.5	5.9	—	—	—	—	—	—
GILCREEK-MARPOINT	24	88.1-89.6	2.6	10.0	1.32	—	—	—	—
GILCREEK-MATERA	15	90.8-91.9	3.7	9.6	2.82	—	—	—	—
GILCREEK-MEDICINA	3	89.0-91.2	7.2	17.0	17.39	—	—	—	—
GILCREEK-MIZUSGSI	1	91.9-91.9	11.1	—	—	—	—	—	—
GILCREEK-MOJAVE12	266	84.5-91.9	.6	6.7	4.09	-3.2	.2	4.5	1.84
GILCREEK-NOBEY 6M	7	89.9-91.5	8.4	11.2	1.73	—	—	—	—
GILCREEK-NOME	10	84.5-90.5	2.5	9.0	3.52	-2.7	.9	6.3	1.94
GILCREEK-NOTO	4	89.5-91.2	4.2	5.1	.79	—	—	—	—
GILCREEK-NRAO85 3	135	89.1-92.0	.8	7.0	2.06	-5.2	.6	5.6	1.36
GILCREEK-NRAO 140	1	90.7-90.7	4.4	—	—	—	—	—	—
GILCREEK-ONSALA60	12	85.5-91.6	17.3	23.0	27.90	-10.0	1.5	9.8	5.56
GILCREEK-OVRO 130	12	85.4-88.9	4.8	8.7	6.87	-3.4	2.6	8.1	6.47

Table 6.3 (continued)

Transverse Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Sqr	Rate mm/yr	Error mm/yr	WRMS mm	Chi Sqr
GILCREEK-PENTICTN	5	84.7-90.6	9.9	11.1	5.87	-4.1	.4	1.9	.24
GILCREEK-PIETOWN	31	89.6-91.9	1.2	3.2	1.76	-1.9	.9	3.0	1.58
GILCREEK-PINFLATS	2	90.1-90.1	8.3	5.9	2.75	—	—	—	—
GILCREEK-PLATTVIL	10	85.4-90.8	4.7	8.6	4.24	-4.6	.8	3.6	.84
GILCREEK-PRESIDIO	10	88.1-91.5	3.6	10.9	5.02	10.7	1.5	2.7	.39
GILCREEK-PT REYES	12	88.1-91.5	4.2	10.8	4.88	8.6	1.1	4.2	.82
GILCREEK-PVERDES	2	90.1-90.1	1.2	1.5	.18	—	—	—	—
GILCREEK-QUINCY	4	89.8-90.8	1.1	4.4	.71	—	—	—	—
GILCREEK-RICHMOND	139	87.3-92.0	1.6	12.7	4.58	-11.8	.5	6.0	1.04
GILCREEK-SANPAULA	2	90.1-90.1	.6	1.0	.06	—	—	—	—
GILCREEK-SANTIA12	2	92.0-92.0	.6	3.8	.31	—	—	—	—
GILCREEK-SEATTLE1	2	90.6-90.6	12.1	5.4	1.57	—	—	—	—
GILCREEK-SESHAN25	17	88.3-92.0	6.8	17.9	7.44	-12.7	2.1	9.6	2.28
GILCREEK-SEST	2	90.4-90.4	9.1	11.4	1.45	—	—	—	—
GILCREEK-SHANGHAI	1	86.5-86.5	43.2	—	—	—	—	—	—
GILCREEK-SNDPOINT	13	84.5-90.5	3.2	10.9	6.57	7.0	.8	4.1	1.01
GILCREEK-SOURDOGH	16	84.6-89.6	2.7	8.1	7.71	4.0	2.4	7.1	6.88
GILCREEK-TRYSILNO	6	91.9-92.0	.6	2.0	.22	—	—	—	—
GILCREEK-VICTORIA	3	90.6-90.6	1.2	4.1	.86	—	—	—	—
GILCREEK-VNDNBERG	80	84.5-91.6	2.9	18.0	16.42	10.2	.4	6.2	1.95
GILCREEK-WESTFORD	166	84.7-92.0	2.1	12.1	11.01	-7.1	.3	5.5	2.24
GILCREEK-WETTZELL	34	84.7-92.0	14.2	31.4	43.48	-13.2	.8	10.7	5.25
GILCREEK-WHTHORSE	9	84.6-89.6	8.0	12.1	11.41	4.8	3.4	10.7	10.24
GILCREEK-YAKATAGA	16	84.6-90.4	16.7	41.5	144.51	3.8	.9	2.7	.70
GILCREEK-YELLOWKN	2	84.7-85.7	5.8	6.0	3.25	—	—	—	—
GILCREEK-YLOW7296	8	91.5-91.6	1.3	4.4	2.01	—	—	—	—
GOLDVENU-HAYSTACK	4	81.9-91.6	7.9	4.0	1.81	-.6	.9	3.6	2.15
GOLDVENU-HRAS 085	3	81.9-82.8	5.3	13.2	5.26	—	—	—	—
GOLDVENU-KASHIM34	1	90.6-90.6	6.2	—	—	—	—	—	—
GOLDVENU-KASHIMA	1	91.6-91.6	7.4	—	—	—	—	—	—
GOLDVENU-MEDICINA	2	90.6-91.2	8.7	14.9	20.08	—	—	—	—
GOLDVENU-MOJAVE12	5	83.7-88.5	2.2	2.9	1.92	.9	.7	2.4	1.66
GOLDVENU-MOJ 7288	1	87.8-87.8	2.3	—	—	—	—	—	—
GOLDVENU-NRAO 140	1	81.9-81.9	5.1	—	—	—	—	—	—
GOLDVENU-ONSALA60	6	81.9-91.6	21.2	18.0	11.04	-4.8	1.7	10.4	4.58
GOLDVENU-OVRO 130	6	81.9-87.8	1.6	3.8	1.28	-1.0	.5	2.9	.89
GOLDVENU-OVR 7853	1	87.8-87.8	2.0	—	—	—	—	—	—
GOLDVENU-PRESIDIO	1	83.7-83.7	11.0	—	—	—	—	—	—
GOLDVENU-PT REYES	1	83.7-83.7	9.9	—	—	—	—	—	—
GOLDVENU-QUINCY	1	82.8-82.8	6.7	—	—	—	—	—	—

Table 6.3 (continued)

Transverse Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Sqr	Rate mm/yr	Error mm/yr	WRMS mm	Chi Sqr
GOLDVENU-VNDNBERG	1	83.7-83.7	8.4	—	—	—	—	—	—
GOLDVENU-WESTFORD	4	81.9-88.5	9.2	7.7	2.83	-2.4	.2	1.1	.09
GORF7102-HRAS 085	1	89.4-89.4	5.0	—	—	—	—	—	—
GORF7102-MARPOINT	2	89.4-89.4	5.5	11.2	14.77	—	—	—	—
GORF7102-MOJAVE12	5	89.8-91.9	6.5	8.5	3.21	-6.2	4.0	6.4	2.37
GORF7102-NRA085 3	4	89.4-91.7	5.5	5.9	3.04	2.8	3.5	5.2	3.46
GORF7102-RICHMOND	6	89.4-91.7	5.1	8.6	6.58	-5.7	3.0	6.2	4.31
GORF7102-SANTIA12	1	91.9-91.9	10.3	—	—	—	—	—	—
GORF7102-WESTFORD	7	89.4-91.9	4.1	6.7	3.63	-.6	2.9	6.6	4.33
GORF7102-WETTZELL	1	91.9-91.9	7.8	—	—	—	—	—	—
GRASSE -MOJAVE12	1	89.7-89.7	8.2	—	—	—	—	—	—
GRASSE -NOTO	2	89.7-89.7	.2	.2	.00	—	—	—	—
GRASSE -RICHMOND	1	89.7-89.7	9.4	—	—	—	—	—	—
GRASSE -WESTFORD	1	89.7-89.7	7.5	—	—	—	—	—	—
GRASSE -WETTZELL	4	89.7-89.7	1.0	1.8	.34	—	—	—	—
HALEAKAL-KAUAI	3	88.5-88.5	16.8	14.4	10.64	—	—	—	—
HALEAKAL-MOJAVE12	3	88.5-88.5	2.2	4.0	.41	—	—	—	—
HARTRAO -HOBART26	27	90.0-92.0	3.9	13.1	1.39	—	—	—	—
HARTRAO -HRAS 085	6	87.1-89.2	11.4	28.7	4.01	-31.7	5.6	9.5	.55
HARTRAO -KASHIM34	6	90.4-92.0	21.5	23.9	4.59	—	—	—	—
HARTRAO -KASHIMA	2	90.3-90.4	24.5	12.1	1.88	—	—	—	—
HARTRAO -KAUAI	4	90.4-92.0	39.4	20.2	3.37	—	—	—	—
HARTRAO -MATERA	1	91.9-91.9	6.7	—	—	—	—	—	—
HARTRAO -MEDICINA	5	88.0-91.8	3.0	3.3	.14	1.6	1.5	2.8	.13
HARTRAO -MOJAVE12	23	90.0-91.9	7.4	23.2	4.05	—	—	—	—
HARTRAO -NOTO	4	91.4-91.7	3.0	2.9	.19	—	—	—	—
HARTRAO -NRA085 3	1	91.9-91.9	11.2	—	—	—	—	—	—
HARTRAO -ONSALA60	7	86.0-90.4	15.2	15.4	2.54	4.6	3.9	13.6	2.37
HARTRAO -RICHMOND	40	86.0-91.9	9.6	40.5	10.36	-18.2	1.3	16.7	1.81
HARTRAO -SANTIA12	4	91.9-92.0	1.8	11.7	1.60	—	—	—	—
HARTRAO -SESHAN25	7	90.3-92.0	12.3	20.3	3.05	—	—	—	—
HARTRAO -SEST	2	90.4-90.4	.5	3.0	.08	—	—	—	—
HARTRAO -WESTFORD	50	86.0-92.0	10.1	38.4	11.37	-18.0	1.1	15.4	1.87
HARTRAO -WETTZELL	46	86.0-92.0	6.7	20.3	5.57	9.0	.9	10.9	1.63
HATCREEK-HAYSTACK	2	84.3-89.8	7.7	9.9	4.33	—	—	—	—
HATCREEK-HRAS 085	62	83.4-89.4	1.7	9.4	2.31	-3.9	.5	6.8	1.23
HATCREEK-JPL MV1	2	83.5-87.8	13.9	32.9	66.14	—	—	—	—
HATCREEK-KASHIM34	1	90.8-90.8	8.7	—	—	—	—	—	—
HATCREEK-KASHIMA	16	84.2-90.1	15.7	22.7	17.77	14.4	1.5	8.2	2.48
HATCREEK-KAUAI	17	85.4-90.8	38.3	104.2	522.78	68.8	1.1	6.7	2.33

Table 6.3 (continued)

Transverse Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Sqr	Rate mm/yr	Error mm/yr	WRMS mm	Chi Sqr
HATCREEK-KODIAK	2	87.5-87.5	1.1	.9	.05	—	—	—	—
HATCREEK-MAMMOTHL	1	83.5-83.5	6.6	—	—	—	—	—	—
HATCREEK-MOJAVE12	139	83.5-90.9	1.3	9.9	7.55	-4.4	.3	5.9	2.68
HATCREEK-MON PEAK	24	83.5-90.9	7.3	25.2	24.39	12.2	1.2	10.2	4.15
HATCREEK-OVRO 130	38	83.4-88.9	2.3	8.3	4.11	-2.9	.7	6.7	2.79
HATCREEK-PINFLATS	2	90.1-90.1	1.5	4.0	1.94	—	—	—	—
HATCREEK-PLATTVIL	22	83.4-90.8	4.0	10.6	3.09	4.0	.7	6.5	1.22
HATCREEK-PRESIDIO	14	85.8-90.1	10.1	23.9	41.00	14.5	2.3	7.8	5.10
HATCREEK-PT REYES	16	84.2-90.0	15.3	35.7	69.33	26.2	1.0	4.9	1.40
HATCREEK-PVERDES	4	89.1-90.1	.9	1.9	.25	—	—	—	—
HATCREEK-QUINCY	17	83.5-90.8	2.4	6.6	2.95	1.6	.8	5.8	2.46
HATCREEK-SANPAULA	4	89.1-90.1	3.3	3.7	.81	—	—	—	—
HATCREEK-SNDPOINT	1	87.6-87.6	76.1	—	—	—	—	—	—
HATCREEK-VERNAL	8	86.2-90.8	2.9	8.8	2.26	1.9	2.2	8.3	2.33
HATCREEK-VNDNBERG	92	84.2-90.1	4.5	24.9	53.20	17.9	.5	6.9	4.10
HATCREEK-WESTFORD	32	83.4-90.9	2.6	8.5	2.44	1.0	1.0	8.4	2.44
HATCREEK-YAKATAGA	3	87.6-87.6	1.2	4.6	1.02	—	—	—	—
HATCREEK-YUMA	12	85.2-88.8	2.6	7.2	1.41	-2.8	2.2	6.6	1.33
HAYSTACK-HRAS 085	36	80.3-89.5	3.7	15.3	5.88	-5.1	.6	8.2	1.73
HAYSTACK-KASHIM34	1	90.6-90.6	5.9	—	—	—	—	—	—
HAYSTACK-KASHIMA	3	84.7-91.6	154.5	43.1	66.85	—	—	—	—
HAYSTACK-KODIAK	1	89.5-89.5	5.9	—	—	—	—	—	—
HAYSTACK-MARPOINT	2	82.5-82.5	2.2	4.1	3.23	—	—	—	—
HAYSTACK-MEDICINA	2	90.6-91.2	9.6	7.4	6.21	—	—	—	—
HAYSTACK-MOJAVE12	24	84.3-89.8	1.4	4.4	3.13	-.7	.7	4.3	3.13
HAYSTACK-NRAO 140	5	79.6-81.9	2.7	3.3	1.49	-1.6	2.1	3.0	1.67
HAYSTACK-ONSALA60	42	80.6-91.6	2.4	10.9	3.17	-1.4	.4	9.8	2.61
HAYSTACK-OVRO 130	29	79.6-88.9	4.1	10.9	3.13	1.4	.8	10.2	2.88
HAYSTACK-PIETOWN	13	89.6-89.8	1.4	3.3	3.95	—	—	—	—
HAYSTACK-PLATTVIL	1	84.3-84.3	6.7	—	—	—	—	—	—
HAYSTACK-PRESIDIO	1	89.8-89.8	8.5	—	—	—	—	—	—
HAYSTACK-ROBLED32	1	83.3-83.3	7.1	—	—	—	—	—	—
HAYSTACK-VNDNBERG	1	89.8-89.8	7.5	—	—	—	—	—	—
HAYSTACK-WESTFORD	26	81.4-89.8	.5	2.9	4.51	.0	.3	2.9	4.69
HAYSTACK-WETTZELL	6	84.7-86.7	7.0	9.2	4.60	-1.9	5.8	9.0	5.60
HAYSTACK-YAKATAGA	1	89.6-89.6	5.0	—	—	—	—	—	—
HOBART26-KASHIM34	18	90.2-92.0	7.6	17.6	4.34	—	—	—	—
HOBART26-KASHIMA	9	89.7-90.5	3.8	7.9	1.51	—	—	—	—
HOBART26-KAUAI	14	89.7-92.0	18.6	34.1	14.87	-39.6	5.4	14.6	2.96
HOBART26-MOJAVE12	20	90.0-91.9	8.8	25.4	4.37	—	—	—	—

Table 6.3 (continued)

Transverse Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Sqr	Rate mm/yr	Error mm/yr	WRMS mm	Chi Sqr
HOBART26-NOBEY 6M	4	90.2-91.5	10.2	11.6	1.66	—	—	—	—
HOBART26-ONSALA60	2	90.4-90.4	3.4	5.3	.35	—	—	—	—
HOBART26-SANTIA12	4	91.9-92.0	6.1	10.6	1.20	—	—	—	—
HOBART26-SESHAN25	9	90.0-92.0	7.4	13.3	3.22	—	—	—	—
HOBART26-SEST	2	90.4-90.4	16.7	10.3	1.36	—	—	—	—
HOBART26-WESTFORD	4	90.4-92.0	45.1	54.7	23.00	—	—	—	—
HOBART26-WETTZELL	4	91.3-92.0	56.9	39.2	17.03	—	—	—	—
HOHENFRG-MOJAVE12	2	89.5-89.5	2.2	5.0	.75	—	—	—	—
HOHENFRG-NOTO	5	89.5-89.5	2.2	5.3	1.16	—	—	—	—
HOHENFRG-RICHMOND	2	89.5-89.5	.0	.1	.00	—	—	—	—
HOHENFRG-WESTFORD	2	89.5-89.5	.9	3.8	.74	—	—	—	—
HOHENFRG-WETTZELL	5	89.5-89.5	3.2	5.8	4.15	—	—	—	—
HRAS 085-JPL MV1	3	82.8-87.8	29.6	27.6	16.24	—	—	—	—
HRAS 085-KASHIMA	27	87.3-89.5	2.0	8.3	.93	6.2	2.1	7.2	.72
HRAS 085-KODIAK	1	89.5-89.5	6.1	—	—	—	—	—	—
HRAS 085-LEONRDOK	1	87.6-87.6	4.8	—	—	—	—	—	—
HRAS 085-MAMMOTHL	1	83.5-83.5	12.8	—	—	—	—	—	—
HRAS 085-MARPOINT	3	82.8-89.4	12.9	17.0	10.16	—	—	—	—
HRAS 085-MCD 7850	1	88.8-88.8	2.2	—	—	—	—	—	—
HRAS 085-MEDICINA	12	87.3-89.1	3.5	13.2	3.51	—	—	—	—
HRAS 085-MILESMON	1	88.3-88.3	4.9	—	—	—	—	—	—
HRAS 085-MOJAVE12	134	83.5-90.8	.6	6.0	2.52	2.0	.2	4.8	1.63
HRAS 085-MON PEAK	33	82.8-89.4	5.8	29.3	19.84	16.0	.8	8.3	1.63
HRAS 085-NRAO85 3	1	89.4-89.4	4.2	—	—	—	—	—	—
HRAS 085-NRAO 140	6	80.3-88.8	25.9	22.6	48.83	-6.8	.8	5.4	3.53
HRAS 085-ONSALA60	107	80.6-89.4	3.9	30.3	14.20	-11.2	.5	12.5	2.45
HRAS 085-OVRO 130	73	80.3-88.8	1.3	8.2	2.60	-.6	.3	8.0	2.53
HRAS 085-PENTICTN	3	84.7-85.7	9.4	6.5	2.00	—	—	—	—
HRAS 085-PIETOWN	3	88.7-88.8	.2	.6	.14	—	—	—	—
HRAS 085-PINFLATS	5	85.8-87.0	4.6	8.2	1.90	—	—	—	—
HRAS 085-PLATTVIL	20	83.4-89.3	2.7	7.4	3.52	-3.5	.8	5.0	1.69
HRAS 085-PRESIDIO	4	85.2-87.1	4.3	5.6	.54	—	—	—	—
HRAS 085-PT REYES	2	85.2-85.8	.9	8.9	1.77	—	—	—	—
HRAS 085-QUINCY	14	82.8-89.3	4.4	10.8	1.75	-3.2	1.4	9.1	1.33
HRAS 085-RICHMOND	350	84.0-90.8	.9	15.7	6.78	-7.9	.3	8.5	1.99
HRAS 085-ROBLED32	1	83.3-83.3	11.5	—	—	—	—	—	—
HRAS 085-VERNAL	6	86.2-89.3	4.2	5.6	1.66	-.9	2.4	5.5	2.01
HRAS 085-VNDNBERG	44	83.9-89.4	9.1	36.4	28.11	25.3	1.0	8.8	1.67
HRAS 085-WESTFORD	597	81.4-90.8	.9	15.9	8.54	-7.5	.1	5.8	1.14
HRAS 085-WETTZELL	415	83.9-90.8	1.3	26.5	12.63	-15.9	.2	7.8	1.09

Table 6.3 (continued)

Transverse Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Sqr	Rate mm/yr	Error mm/yr	WRMS mm	Chi Sqr
HRAS 085-YELLOWKN	2	84.7-85.7	.4	.2	.00	—	—	—	—
HRAS 085-YUMA	18	83.8-88.8	2.5	7.5	1.73	-1.8	1.7	7.2	1.72
JPL MV1 -MAMMOTHL	4	83.5-86.8	12.7	17.1	12.28	9.8	5.4	10.5	6.93
JPL MV1 -MOJAVE12	21	83.5-88.9	9.9	37.4	58.10	24.0	1.0	6.5	1.86
JPL MV1 -MON PEAK	1	82.8-82.8	6.7	—	—	—	—	—	—
JPL MV1 -OVRO 130	19	82.8-88.9	11.7	37.4	59.41	19.6	1.3	9.8	4.32
JPL MV1 -PBLOSSOM	7	83.1-88.0	8.0	14.4	4.57	8.0	3.1	9.4	2.34
JPL MV1 -PINFLATS	6	83.8-87.0	4.0	5.9	1.00	2.2	3.0	5.5	1.10
JPL MV1 -PRESIDIO	2	88.8-88.9	14.2	6.4	2.63	—	—	—	—
JPL MV1 -QUINCY	1	82.8-82.8	30.8	—	—	—	—	—	—
JPL MV1 -VNDNBERG	18	83.6-88.9	10.5	20.0	10.37	14.0	1.7	8.9	2.17
KASHIM34-KASHIMA	6	90.2-90.5	1.1	2.6	.74	—	—	—	—
KASHIM34-KAUAI	10	90.2-92.0	4.6	9.8	2.81	—	—	—	—
KASHIM34-MARCUS	1	90.5-90.5	4.8	—	—	—	—	—	—
KASHIM34-MEDICINA	1	90.6-90.6	6.4	—	—	—	—	—	—
KASHIM34-MOJAVE12	11	90.2-91.5	9.2	14.9	3.54	—	—	—	—
KASHIM34-NOBEY 6M	5	90.2-91.5	6.9	6.4	.97	—	—	—	—
KASHIM34-ONSALA60	3	90.4-90.6	3.7	6.3	1.27	—	—	—	—
KASHIM34-SANTIA12	2	92.0-92.0	1.4	2.2	.05	—	—	—	—
KASHIM34-SESHAN25	9	90.2-92.0	6.6	13.8	9.93	—	—	—	—
KASHIM34-SEST	2	90.4-90.4	1.7	17.6	2.41	—	—	—	—
KASHIM34-SINTOTU	1	90.6-90.6	4.2	—	—	—	—	—	—
KASHIM34-WESTFORD	4	90.4-92.0	3.2	15.5	5.52	—	—	—	—
KASHIM34-WETTZELL	4	91.3-92.0	9.4	5.8	.73	—	—	—	—
KASHIMA -KAUAI	66	84.6-91.4	8.1	15.4	7.76	-8.5	.6	7.3	1.78
KASHIMA -KWAJAL26	16	84.6-88.6	17.5	45.1	32.05	30.3	1.9	10.6	1.88
KASHIMA -MARCUS	1	90.5-90.5	5.2	—	—	—	—	—	—
KASHIMA -MEDICINA	1	90.4-90.4	6.8	—	—	—	—	—	—
KASHIMA -MIYAZAKI	3	86.8-88.8	4.2	5.6	.55	—	—	—	—
KASHIMA -MIZUSGSI	1	91.9-91.9	6.7	—	—	—	—	—	—
KASHIMA -MOJAVE12	56	84.1-91.2	4.8	16.5	8.27	8.4	.4	5.8	1.03
KASHIMA -NOBEY 6M	3	89.9-90.2	1.4	5.7	.95	—	—	—	—
KASHIMA -ONSALA60	7	85.5-91.6	20.8	16.0	12.15	8.0	2.3	8.5	4.17
KASHIMA -RICHMOND	29	87.3-90.1	4.2	11.9	1.09	4.6	2.2	11.0	.97
KASHIMA -SESHAN25	15	88.3-91.4	6.9	17.0	16.73	-17.3	2.2	7.1	3.19
KASHIMA -SHANGHAI	1	86.5-86.5	22.1	—	—	—	—	—	—
KASHIMA -SINTOTU	3	90.6-90.6	1.9	1.9	.22	—	—	—	—
KASHIMA -TITIJIMA	3	87.9-89.9	17.1	23.5	9.67	—	—	—	—
KASHIMA -TSUKUBA	7	84.6-89.7	3.2	4.8	.39	-.1	1.5	4.8	.47
KASHIMA -USUDA64	1	90.6-90.6	5.8	—	—	—	—	—	—

Table 6.3 (continued)

Transverse Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Sqr	Rate mm/yr	Error mm/yr	WRMS mm	Chi Sqr
KASHIMA -VNDNBERG	27	85.4-90.1	3.8	5.8	1.13	.2	.9	5.8	1.17
KASHIMA -WESTFORD	8	85.5-90.0	25.8	24.8	28.30	16.7	3.3	10.9	6.41
KASHIMA -WETTZELL	12	84.7-90.4	17.2	16.0	8.96	6.7	2.2	11.5	5.08
KASHIMA -WHTHORSE	1	89.6-89.6	8.2	—	—	—	—	—	—
KAUAI -KWAJAL26	20	84.5-88.6	6.7	14.1	2.56	3.7	2.1	13.0	2.29
KAUAI -LA-VLBA	11	91.4-91.9	15.7	13.5	10.92	—	—	—	—
KAUAI -MARPOINT	6	88.4-89.4	30.9	36.8	5.12	—	—	—	—
KAUAI -MATERA	15	90.8-91.9	6.7	18.8	5.71	—	—	—	—
KAUAI -MOJAVE12	65	84.5-91.9	47.9	146.6	969.13	64.1	.3	6.1	1.71
KAUAI -NOTO	3	89.5-91.2	5.7	36.1	28.30	—	—	—	—
KAUAI -NRA085 3	129	89.1-92.0	7.9	47.8	44.19	66.3	1.2	9.8	1.85
KAUAI -ONSALA60	2	90.4-90.4	3.3	10.4	3.30	—	—	—	—
KAUAI -PIETOWN	6	91.1-91.9	18.7	16.3	21.19	—	—	—	—
KAUAI -RICHMOND	98	88.4-92.0	7.8	43.2	31.11	58.0	1.3	9.4	1.48
KAUAI -SANTIA12	2	92.0-92.0	.0	.0	.00	—	—	—	—
KAUAI -SESHAN25	18	88.3-92.0	22.3	30.9	18.24	-25.1	2.5	11.5	2.67
KAUAI -SEST	2	90.4-90.4	8.2	15.3	2.10	—	—	—	—
KAUAI -SHANGHAI	1	86.5-86.5	22.1	—	—	—	—	—	—
KAUAI -VNDNBERG	32	84.5-90.1	18.5	50.8	95.89	32.8	.9	7.8	2.34
KAUAI -WESTFORD	22	90.4-92.0	14.8	31.4	31.94	—	—	—	—
KAUAI -WETTZELL	17	91.1-92.0	6.5	18.8	7.76	—	—	—	—
KAUAI -WHTHORSE	1	89.6-89.6	7.5	—	—	—	—	—	—
KODIAK -MOJAVE12	10	87.5-90.5	1.6	6.7	1.82	-3.6	1.7	5.4	1.32
KODIAK -NOME	4	84.6-86.6	3.2	5.0	.62	.2	4.8	5.0	.92
KODIAK -VNDNBERG	4	84.6-86.6	8.7	11.8	3.25	-15.9	12.2	8.7	2.63
KODIAK -WESTFORD	8	88.5-90.5	3.7	8.5	2.07	—	—	—	—
KWAJAL26-MOJAVE12	17	84.5-88.6	45.6	88.7	83.29	64.8	2.6	13.5	2.04
KWAJAL26-SESHAN25	3	88.5-88.6	8.4	7.1	.94	—	—	—	—
KWAJAL26-VNDNBERG	12	84.5-88.6	32.9	43.6	21.00	38.9	4.9	16.2	3.18
LA-VLBA -MOJAVE12	12	91.4-91.9	4.0	4.0	6.95	—	—	—	—
LA-VLBA -PIETOWN	4	91.4-91.9	9.2	3.5	12.47	—	—	—	—
LA-VLBA -WESTFORD	12	91.4-91.9	6.8	6.7	9.92	—	—	—	—
LA-VLBA -WETTZELL	12	91.4-91.9	8.9	13.2	7.88	—	—	—	—
LEONRDOK-RICHMOND	1	87.6-87.6	5.1	—	—	—	—	—	—
LEONRDOK-WESTFORD	1	87.6-87.6	6.2	—	—	—	—	—	—
MAMMOTHL-MOJAVE12	4	83.5-86.8	7.9	11.0	7.46	-6.5	3.7	6.9	4.43
MAMMOTHL-OVRO 130	4	83.5-86.8	1.4	6.7	1.63	-1.8	3.1	6.2	2.09
MAMMOTHL-VNDNBERG	2	84.8-86.8	31.9	16.7	42.94	—	—	—	—
MARCUS -SESHAN25	1	90.5-90.5	5.8	—	—	—	—	—	—
MARPOINT-MEDICINA	1	89.0-89.0	9.8	—	—	—	—	—	—

Table 6.3 (continued)

Transverse Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Sqr	Rate mm/yr	Error mm/yr	WRMS mm	Chi Sqr
MARPOINT-NOTO	1	89.5-89.5	8.4	—	—	—	—	—	—
MARPOINT-NRAO85 3	11	89.1-89.6	7.9	11.9	4.88	—	—	—	—
MARPOINT-ONSALA60	4	82.5-83.7	2.4	4.2	.40	—	—	—	—
MARPOINT-OVRO 130	3	82.5-82.8	5.1	15.0	4.16	—	—	—	—
MARPOINT-RICHMOND	22	87.6-89.6	2.8	10.3	2.69	-5.4	3.4	9.7	2.50
MARPOINT-WESTFORD	9	82.5-89.4	7.4	9.2	4.29	-.8	1.1	8.9	4.57
MATERA -MEDICINA	5	90.4-91.9	11.2	4.1	5.42	—	—	—	—
MATERA -MOJAVE12	3	91.8-92.0	1.6	2.4	.20	—	—	—	—
MATERA -NOTO	4	90.7-91.7	8.8	2.7	2.67	—	—	—	—
MATERA -NRAO85 3	15	90.8-91.9	4.8	11.4	2.80	—	—	—	—
MATERA -ONSALA60	4	90.7-91.7	15.3	4.4	3.67	—	—	—	—
MATERA -RICHMOND	4	91.8-92.0	4.8	7.7	1.87	—	—	—	—
MATERA -WESTFORD	3	91.8-92.0	1.6	2.5	.32	—	—	—	—
MATERA -WETTZELL	10	90.4-92.0	5.6	3.9	3.91	—	—	—	—
MCD 7850-MOJAVE12	1	88.8-88.8	2.8	—	—	—	—	—	—
MCD 7850-PIETOWN	1	88.8-88.8	2.0	—	—	—	—	—	—
MCD 7850-WESTFORD	1	88.8-88.8	5.6	—	—	—	—	—	—
MEDICINA-NOTO	4	90.1-91.7	5.3	3.3	4.71	—	—	—	—
MEDICINA-ONSALA60	13	87.3-91.7	4.3	6.7	7.97	-4.7	1.3	4.5	3.93
MEDICINA-RICHMOND	14	87.3-89.0	1.9	7.5	1.08	—	—	—	—
MEDICINA-SESHAN25	2	90.4-91.8	6.9	5.2	.83	—	—	—	—
MEDICINA-WESTFORD	19	87.3-89.1	2.4	7.2	1.85	—	—	—	—
MEDICINA-WETTZELL	22	87.3-91.9	1.6	4.0	3.06	-2.2	.6	3.1	1.90
METSHOVI-MOJAVE12	2	89.5-89.5	2.9	1.8	.08	—	—	—	—
METSHOVI-ONSALA60	5	89.5-89.5	4.2	7.6	2.54	—	—	—	—
METSHOVI-RICHMOND	2	89.5-89.5	.1	.1	.00	—	—	—	—
METSHOVI-WESTFORD	2	89.5-89.5	7.2	4.6	.59	—	—	—	—
METSHOVI-WETTZELL	5	89.5-89.5	9.7	11.6	6.07	—	—	—	—
MILESMON-MOJAVE12	1	88.3-88.3	6.0	—	—	—	—	—	—
MILESMON-WESTFORD	1	88.3-88.3	9.3	—	—	—	—	—	—
MOJAVE12-MON PEAK	36	83.5-90.9	8.7	40.2	159.13	23.9	.8	7.7	6.06
MOJAVE12-NOBEY 6M	7	89.9-91.5	6.8	10.3	1.05	—	—	—	—
MOJAVE12-NOME	3	90.5-90.5	1.5	4.2	.75	—	—	—	—
MOJAVE12-NOTO	10	89.5-91.7	6.9	14.7	4.47	-13.6	2.9	7.5	1.33
MOJAVE12-NRAO85 3	9	89.5-91.8	3.3	5.8	2.07	-4.1	2.2	4.7	1.58
MOJAVE12-NRAO 140	3	88.8-91.8	2.6	3.2	1.38	—	—	—	—
MOJAVE12-OCOTILLO	3	84.2-85.2	10.6	7.6	3.87	—	—	—	—
MOJAVE12-ONSALA60	47	83.8-91.7	4.7	16.0	8.75	-6.4	.8	10.0	3.52
MOJAVE12-OVRO 130	81	83.5-88.9	.9	7.1	4.39	-2.0	.4	6.3	3.47
MOJAVE12-OVR 7853	1	87.8-87.8	1.7	—	—	—	—	—	—

Table 63 (continued)

Transverse Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Sqr	Rate mm/yr	Error mm/yr	WRMS mm	Chi Sqr
MOJAVE12-PBLOSSOM	9	83.6-88.1	10.4	22.1	29.54	15.9	1.0	3.7	.95
MOJAVE12-PENTICTN	3	90.6-90.6	1.6	3.8	.67	—	—	—	—
MOJAVE12-PIETOWN	34	88.7-91.9	1.5	4.9	16.63	6.7	.6	2.3	3.85
MOJAVE12-PINFLATS	21	83.8-90.1	4.3	15.4	20.14	10.6	.7	4.3	1.66
MOJAVE12-PLATTVIL	21	84.3-90.8	4.7	14.8	8.96	6.8	.5	4.6	.90
MOJAVE12-PRESIDIO	22	83.7-91.5	4.1	13.8	8.10	7.5	1.2	6.4	1.92
MOJAVE12-PT REYES	20	83.7-91.5	5.0	24.3	24.44	13.2	.8	5.9	1.50
MOJAVE12-PVERDES	9	83.9-90.1	13.5	52.2	141.73	30.9	.7	3.3	.65
MOJAVE12-QUINCY	20	83.5-90.8	3.1	11.1	6.70	-5.0	.7	5.8	1.95
MOJAVE12-RICHMOND	191	84.0-92.0	.7	6.2	2.26	-4.0	.5	5.4	1.76
MOJAVE12-SANPAULA	10	83.7-90.1	12.4	40.3	56.58	24.6	1.3	5.9	1.38
MOJAVE12-SANTIA12	1	91.9-91.9	8.3	—	—	—	—	—	—
MOJAVE12-SEATTLE1	3	86.7-90.6	7.8	6.1	1.66	—	—	—	—
MOJAVE12-SEST	1	90.3-90.3	9.1	—	—	—	—	—	—
MOJAVE12-SNDPOINT	10	87.6-90.5	2.5	6.7	1.35	-1.3	3.2	6.7	1.49
MOJAVE12-SOURDOGH	8	87.6-89.6	4.8	10.2	5.79	—	—	—	—
MOJAVE12-TROMSONO	1	89.6-89.6	7.2	—	—	—	—	—	—
MOJAVE12-VERNAL	8	86.2-90.8	8.4	12.7	9.12	8.1	1.6	5.5	1.95
MOJAVE12-VICTORIA	3	90.6-90.6	2.0	6.5	2.03	—	—	—	—
MOJAVE12-VNDNBERG	163	83.6-91.6	7.0	55.1	205.40	33.0	.3	6.1	2.56
MOJAVE12-WESTFORD	403	83.5-92.0	.5	5.0	2.13	.2	.2	5.0	2.13
MOJAVE12-WETTZELL	230	84.7-92.0	1.4	15.2	6.91	-9.1	.4	7.9	1.86
MOJAVE12-WHTHORSE	5	88.6-89.6	6.1	5.5	2.08	—	—	—	—
MOJAVE12-YAKATAGA	10	87.6-90.4	13.5	29.3	38.74	5.3	2.5	4.3	1.07
MOJAVE12-YLOW7296	8	91.5-91.6	2.7	5.8	2.35	—	—	—	—
MOJAVE12-YUMA	21	83.8-88.8	1.5	4.5	1.40	1.1	.9	4.3	1.37
MOJ 7288-MOJAVE12	1	87.8-87.8	2.4	—	—	—	—	—	—
MOJ 7288-OVRO 130	1	87.8-87.8	2.2	—	—	—	—	—	—
MOJ 7288-OVR 7853	1	87.8-87.8	2.3	—	—	—	—	—	—
MON PEAK-OVRO 130	20	82.8-88.8	8.9	33.3	60.86	18.0	1.0	7.8	3.55
MON PEAK-QUINCY	13	83.5-88.8	8.1	22.3	17.69	12.3	1.8	9.9	3.78
MON PEAK-VNDNBERG	26	83.9-89.4	5.2	19.4	15.60	12.3	1.2	8.5	3.10
MON PEAK-WESTFORD	2	90.9-90.9	.1	3.2	.39	—	—	—	—
MON PEAK-YUMA	8	83.8-87.9	13.8	24.9	22.97	25.7	3.0	6.8	1.97
NOME -SNDPOINT	3	84.5-86.6	8.3	7.6	2.49	—	—	—	—
NOME -VNDNBERG	7	84.5-86.6	3.0	11.2	2.29	2.2	8.7	11.2	2.71
NOME -WESTFORD	3	90.5-90.5	.1	1.2	.05	—	—	—	—
NOTO -NRAO85 3	4	89.5-91.2	3.1	12.5	3.11	—	—	—	—
NOTO -ONSALA60	7	89.4-91.7	1.9	3.5	1.72	2.2	1.8	3.0	1.58
NOTO -RICHMOND	9	89.5-91.7	8.8	17.5	5.98	-17.8	2.5	6.1	.83

Table 6.3 (continued)

Transverse Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Sqr	Rate mm/yr	Error mm/yr	WRMS mm	Chi Sqr
NOTO -WESTFORD	10	89.4-91.7	6.9	15.5	6.65	-14.4	2.7	7.3	1.66
NOTO -WETTZELL	21	89.4-91.7	1.4	4.2	2.05	.7	1.2	4.2	2.12
NRAO85 3-RICHMOND	104	89.3-92.0	1.3	9.0	8.33	-8.4	.7	5.9	3.62
NRAO85 3-WESTFORD	8	89.4-91.8	2.8	3.7	2.33	1.9	1.8	3.4	2.29
NRAO85 3-WETTZELL	1	91.9-91.9	6.2	—	—	—	—	—	—
NRAO 140-NRAO85 3	1	91.8-91.8	1.5	—	—	—	—	—	—
NRAO 140-ONSALA60	4	81.9-83.0	2.8	2.6	.07	—	—	—	—
NRAO 140-OVRO 130	8	79.6-88.8	6.3	6.3	2.20	.1	.8	6.3	2.56
NRAO 140-RICHMOND	1	91.8-91.8	2.0	—	—	—	—	—	—
NRAO 140-WESTFORD	7	81.9-91.8	6.4	7.3	9.11	-1.6	.3	2.7	1.50
OCOTILLO-OVRO 130	1	85.2-85.2	4.3	—	—	—	—	—	—
OCOTILLO-PVERDES	1	85.2-85.2	6.4	—	—	—	—	—	—
OCOTILLO-VNDNBERG	3	84.2-85.2	17.3	12.4	4.85	—	—	—	—
ONSALA60-OVRO 130	33	80.6-87.8	6.6	19.9	4.77	-.7	1.4	19.8	4.89
ONSALA60-RICHMOND	69	84.1-91.7	2.4	14.1	5.46	-6.4	.4	6.7	1.27
ONSALA60-ROBLED32	1	83.3-83.3	10.2	—	—	—	—	—	—
ONSALA60-SEST	3	90.3-90.4	4.6	11.8	1.27	—	—	—	—
ONSALA60-TROMSONO	4	89.6-89.6	3.0	5.5	1.95	—	—	—	—
ONSALA60-WESTFORD	154	81.8-91.7	1.0	7.6	2.17	-2.0	.2	6.2	1.46
ONSALA60-WETTZELL	136	83.6-91.7	.9	6.2	4.49	-2.3	.2	4.8	2.73
OVRO 130-PBLOSSOM	7	83.1-87.8	5.9	18.8	18.84	12.3	1.5	4.8	1.47
OVRO 130-PINFLATS	7	83.8-86.8	3.4	10.7	6.73	8.6	3.1	6.7	3.16
OVRO 130-PLATTVIL	9	83.4-88.3	9.7	13.9	8.70	9.2	1.9	6.6	2.22
OVRO 130-PRESIDIO	8	83.7-88.9	14.7	29.7	24.51	15.2	2.1	9.5	2.92
OVRO 130-PT REYES	6	83.7-88.9	14.9	36.1	28.84	17.8	3.1	11.9	3.90
OVRO 130-PVERDES	2	83.9-85.2	1.0	9.4	6.07	—	—	—	—
OVRO 130-QUINCY	14	82.8-88.8	3.9	8.7	3.75	-3.5	.8	5.5	1.65
OVRO 130-SANPAULA	1	83.7-83.7	7.9	—	—	—	—	—	—
OVRO 130-VNDNBERG	46	83.6-88.9	11.6	51.8	135.19	35.5	.8	8.1	3.36
OVRO 130-WESTFORD	29	81.5-88.8	2.9	8.0	2.70	.5	.6	7.9	2.73
OVRO 130-WETTZELL	7	85.2-87.8	11.4	23.0	16.92	-16.7	8.6	17.3	11.52
OVRO 130-YUMA	7	83.8-87.8	4.0	5.6	1.53	4.7	1.6	3.5	.70
OVR 7853-OVRO 130	1	87.8-87.8	2.4	—	—	—	—	—	—
PBLOSSOM-SANPAULA	1	88.1-88.1	10.6	—	—	—	—	—	—
PBLOSSOM-VNDNBERG	9	83.6-88.1	8.1	22.2	15.39	16.0	1.7	6.0	1.30
PENTICTN-WESTFORD	3	90.6-90.6	1.6	4.1	.63	—	—	—	—
PENTICTN-YELLOWKN	2	84.7-85.7	3.5	9.4	7.29	—	—	—	—
PIETOWN -WESTFORD	33	88.7-91.9	2.6	5.6	7.61	-6.7	.9	3.4	2.98
PIETOWN -WETTZELL	7	91.1-91.9	4.8	7.1	2.42	—	—	—	—
PINFLATS-PVERDES	3	87.2-88.1	2.2	3.3	.30	—	—	—	—

Table 6.3 (continued)

Transverse Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Sqr	Rate mm/yr	Error mm/yr	WRMS mm	Chi Sqr
PINFLATS-VNDNBERG	20	83.8-90.1	10.6	26.1	21.92	15.7	1.0	6.5	1.46
PINFLATS-YUMA	6	83.8-87.0	6.4	13.7	5.39	8.9	8.5	12.2	5.30
PLATTVIL-VERNAL	1	86.2-86.2	5.7	—	—	—	—	—	—
PLATTVIL-WESTFORD	11	83.4-90.8	4.6	9.6	3.62	-4.7	1.1	5.6	1.35
PRESIDIO-PT REYES	3	83.7-85.8	7.8	7.1	1.56	—	—	—	—
PRESIDIO-VNDNBERG	20	83.7-90.1	3.4	9.8	4.90	3.9	1.4	7.1	2.89
PRESIDIO-WESTFORD	6	89.8-91.5	11.5	18.3	10.83	—	—	—	—
PRESIDIO-YLOW7296	2	91.5-91.5	2.8	1.9	.26	—	—	—	—
PRESIDIO-YUMA	1	87.1-87.1	5.2	—	—	—	—	—	—
PT REYES-VNDNBERG	18	83.7-90.0	2.6	9.3	4.23	5.4	.8	4.7	1.12
PT REYES-WESTFORD	6	89.9-91.5	13.0	28.0	26.45	—	—	—	—
PT REYES-YLOW7296	2	91.5-91.5	.2	2.6	.37	—	—	—	—
PT REYES-YUMA	1	87.8-87.8	7.9	—	—	—	—	—	—
PVERDES -VNDNBERG	9	83.9-90.1	6.1	14.6	7.11	7.5	2.0	8.5	2.72
QUINCY -VNDNBERG	13	84.3-89.8	9.0	25.4	38.88	18.5	1.2	5.4	1.92
QUINCY -WESTFORD	2	89.8-89.8	4.9	4.8	1.08	—	—	—	—
RICHMOND-TROMSONO	1	89.6-89.6	6.8	—	—	—	—	—	—
RICHMOND-WESTFORD	529	84.0-92.0	.8	14.0	16.15	-6.1	.1	5.5	2.51
RICHMOND-WETTZELL	504	84.1-92.0	1.3	21.9	10.68	-9.7	.2	7.3	1.17
RICHMOND-YLOW7296	1	91.6-91.6	3.7	—	—	—	—	—	—
ROBLED32-WESTFORD	1	83.3-83.3	7.9	—	—	—	—	—	—
SANPAULA-VNDNBERG	10	83.7-90.1	6.0	17.0	7.73	9.2	1.7	8.0	1.95
SANTIA12-SESHAN25	2	92.0-92.0	13.7	8.5	.57	—	—	—	—
SANTIA12-WESTFORD	3	91.9-92.0	4.3	7.3	1.14	—	—	—	—
SANTIA12-WETTZELL	3	91.9-92.0	5.5	8.2	.72	—	—	—	—
SEATTLE1-WESTFORD	3	86.7-90.6	29.9	13.8	4.52	—	—	—	—
SESHAN25-WESTFORD	2	92.0-92.0	9.8	24.2	10.00	—	—	—	—
SESHAN25-WETTZELL	6	90.3-92.0	19.8	23.5	9.31	—	—	—	—
SEST -WESTFORD	3	90.3-90.4	.8	3.3	.15	—	—	—	—
SINTOTU -USUDA64	1	90.6-90.6	5.8	—	—	—	—	—	—
SNDPOINT-VNDNBERG	3	84.5-86.6	8.4	6.7	1.57	—	—	—	—
SNDPOINT-WESTFORD	8	88.5-90.5	3.4	4.2	.44	—	—	—	—
SOURDOGH-VNDNBERG	8	84.6-86.6	3.5	7.8	1.98	6.6	4.7	6.7	1.73
SOURDOGH-WESTFORD	6	88.6-89.6	6.2	8.8	3.07	—	—	—	—
SOURDOGH-WHTHORSE	3	84.6-86.6	5.1	11.9	5.93	—	—	—	—
SOURDOGH-YAKATAGA	4	84.6-86.6	2.3	4.4	1.25	-1.8	3.6	4.1	1.66
TROMSONO-WESTFORD	1	89.6-89.6	5.8	—	—	—	—	—	—
TROMSONO-WETTZELL	4	89.6-89.6	1.1	3.5	.62	—	—	—	—
TRYSILNO-WESTFORD	6	91.9-92.0	1.3	4.5	.94	—	—	—	—
TRYSILNO-WETTZELL	5	91.9-92.0	.6	1.4	.40	—	—	—	—

Table 6.3 (continued)

Transverse Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Sqr	Rate mm/yr	Error mm/yr	WRMS mm	Chi Sqr
VERNAL -VNDNBERG	1	88.8-88.8	5.6	—	—	—	—	—	—
VERNAL -WESTFORD	4	89.3-90.8	1.7	6.6	1.37	—	—	—	—
VERNAL -YUMA	1	88.8-88.8	5.1	—	—	—	—	—	—
VICTORIA-WESTFORD	3	90.6-90.6	2.5	6.2	1.50	—	—	—	—
VNDNBERG-WESTFORD	12	89.8-91.6	9.7	26.5	30.18	—	—	—	—
VNDNBERG-WHTHORSE	3	84.6-86.6	5.7	6.1	1.57	—	—	—	—
VNDNBERG-YAKATAGA	4	84.6-86.6	12.2	14.7	6.43	21.2	6.7	6.0	1.60
VNDNBERG-YUMA	19	83.8-88.8	11.8	26.6	25.49	25.0	1.6	6.8	1.79
WESTFORD-WETTZELL	659	83.9-92.0	.8	14.4	7.72	-6.3	.1	5.5	1.11
WESTFORD-WHTHORSE	4	88.6-89.6	11.4	6.6	2.36	—	—	—	—
WESTFORD-YAKATAGA	7	88.6-90.4	6.6	12.9	5.59	—	—	—	—
WESTFORD-YLOW7296	8	91.5-91.6	3.5	6.5	3.07	—	—	—	—

Table 6.4

Vertical Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Square	Rate mm/yr	Error mm/yr	WRMS mm	Chi Square
ALGOPARK-GILCREEK	27	84.7-91.6	14.4	36.1	4.13	12.9	2.5	25.0	2.06
ALGOPARK-HRAS 085	5	84.7-85.7	50.1	51.8	3.74	—	—	—	—
ALGOPARK-KAUAI	7	90.5-91.6	36.4	45.6	3.82	—	—	—	—
ALGOPARK-KODIAK	3	90.5-90.5	.4	3.8	.02	—	—	—	—
ALGOPARK-MATERA	3	91.4-91.6	9.5	16.0	.70	—	—	—	—
ALGOPARK-MOJAVE12	29	85.6-91.6	9.2	28.8	2.87	17.6	4.6	23.1	1.92
ALGOPARK-NRAO85 3	7	90.5-91.6	13.5	26.6	1.54	—	—	—	—
ALGOPARK-PENTICTN	6	84.7-90.6	31.0	58.2	1.42	-12.2	9.9	49.5	1.29
ALGOPARK-RICHMOND	15	90.5-91.6	14.0	30.1	3.02	—	—	—	—
ALGOPARK-SNDPOINT	3	90.5-90.5	8.7	19.4	.40	—	—	—	—
ALGOPARK-VICTORIA	3	90.6-90.6	17.7	30.9	.65	—	—	—	—
ALGOPARK-WESTFORD	29	84.7-91.6	5.6	19.8	2.24	1.1	2.4	19.8	2.31
ALGOPARK-WETTZELL	12	90.5-91.6	7.2	20.2	1.41	—	—	—	—
ALGOPARK-YELLOWKN	2	84.7-85.7	.1	1.3	.00	—	—	—	—
ALGOPARK-YLOW7296	2	91.5-91.6	.0	.5	.00	—	—	—	—
AUSTINTX-HRAS 085	1	87.5-87.5	.5	—	—	—	—	—	—
AUSTINTX-RICHMOND	1	87.5-87.5	.5	—	—	—	—	—	—
AUSTINTX-WESTFORD	1	87.5-87.5	.5	—	—	—	—	—	—
BERMUDA -MARPOINT	3	87.6-87.6	149.0	77.5	7.38	—	—	—	—
BERMUDA -RICHMOND	4	87.6-87.6	77.4	70.2	3.65	—	—	—	—
BERMUDA -WESTFORD	4	87.6-87.6	25.5	33.2	1.77	—	—	—	—
BLKBUTTE-ELY	2	88.8-88.8	18.5	21.4	.75	—	—	—	—
BLKBUTTE-HATCREEK	5	87.1-88.8	80.9	76.5	4.46	—	—	—	—
BLKBUTTE-HRAS 085	5	83.9-88.8	22.1	37.1	1.42	-12.3	16.9	34.2	1.61
BLKBUTTE-MOJAVE12	12	83.9-88.8	17.3	45.8	1.57	-7.6	11.9	44.9	1.66
BLKBUTTE-MON PEAK	4	83.9-86.8	33.0	47.1	1.48	-2.1	62.3	47.0	2.22
BLKBUTTE-OCOTILLO	2	84.2-85.0	42.5	57.9	.54	—	—	—	—
BLKBUTTE-OVRO 130	3	86.4-87.8	49.1	44.6	2.42	—	—	—	—
BLKBUTTE-PRESIDIO	2	87.4-87.8	356.0	113.2	9.89	—	—	—	—
BLKBUTTE-PT REYES	1	87.1-87.1	113.2	—	—	—	—	—	—
BLKBUTTE-VNDNBERG	12	83.9-88.8	21.9	53.5	1.85	5.5	15.3	53.1	2.01
BLOOMIND-HRAS 085	1	87.6-87.6	16.1	—	—	—	—	—	—
BLOOMIND-WESTFORD	1	87.6-87.6	16.1	—	—	—	—	—	—
BREST -MOJAVE12	2	89.7-89.7	49.6	32.4	2.33	—	—	—	—
BREST -NOTO	4	89.7-89.7	43.2	42.0	3.18	—	—	—	—
BREST -ONSALA60	1	89.7-89.7	24.2	—	—	—	—	—	—
BREST -RICHMOND	1	89.7-89.7	24.2	—	—	—	—	—	—
BREST -WESTFORD	2	89.7-89.7	34.4	26.6	1.68	—	—	—	—
BREST -WETTZELL	4	89.7-89.7	46.5	41.2	3.82	—	—	—	—
CARNUSTY-MOJAVE12	1	89.6-89.6	23.8	—	—	—	—	—	—

Table 6.4 (continued)

Vertical Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Square	Rate mm/yr	Error mm/yr	WRMS mm	Chi Square
CARNUSTY-RICHMOND	1	89.6-89.6	23.8	—	—	—	—	—	—
CARNUSTY-WESTFORD	1	89.6-89.6	23.8	—	—	—	—	—	—
CARNUSTY-WETTZELL	4	89.6-89.6	10.9	23.9	.62	—	—	—	—
CARROLGA-HRAS 085	1	87.5-87.5	13.8	—	—	—	—	—	—
CARROLGA-RICHMOND	1	87.5-87.5	13.8	—	—	—	—	—	—
CARROLGA-WESTFORD	1	87.5-87.5	13.8	—	—	—	—	—	—
CHLBOLTN-HAYSTACK	7	80.8-80.8	78.1	77.2	6.15	—	—	—	—
CHLBOLTN-HRAS 085	7	80.8-80.8	62.7	84.6	3.29	—	—	—	—
CHLBOLTN-ONSALA60	7	80.8-80.8	44.8	53.9	4.15	—	—	—	—
CHLBOLTN-OVRO 130	6	80.8-80.8	100.7	89.3	6.36	—	—	—	—
DEADMANL-JPL MV1	1	88.1-88.1	39.9	—	—	—	—	—	—
DEADMANL-MOJAVE12	5	84.2-88.1	35.4	48.4	2.14	54.0	28.6	32.7	1.30
DEADMANL-SANPAULA	4	84.2-87.9	70.2	83.9	2.10	77.8	50.5	56.7	1.44
DEADMANL-VNDNBERG	5	84.2-88.1	60.9	76.2	2.56	99.4	24.2	29.6	.51
DSS15 -GILCREEK	2	88.9-89.6	44.9	20.6	4.74	—	—	—	—
DSS15 -GOLDVENU	1	87.8-87.8	20.6	—	—	—	—	—	—
DSS15 -HAYSTACK	2	88.9-89.6	18.9	13.2	2.07	—	—	—	—
DSS15 -MOJAVE12	1	87.8-87.8	13.2	—	—	—	—	—	—
DSS15 -MOJ 7288	1	87.8-87.8	13.2	—	—	—	—	—	—
DSS15 -OVRO 130	2	87.8-88.9	7.8	8.4	.87	—	—	—	—
DSS15 -OVR 7853	1	87.8-87.8	8.4	—	—	—	—	—	—
DSS15 -YAKATAGA	1	89.6-89.6	8.4	—	—	—	—	—	—
DSS45 -GILCREEK	13	88.5-91.7	24.7	37.3	5.23	26.7	8.1	26.4	2.86
DSS45 -HARTRAO	4	91.3-91.9	11.6	20.5	.97	—	—	—	—
DSS45 -HOBART26	8	89.9-91.9	2.7	10.0	.52	8.7	5.5	8.4	.42
DSS45 -KASHIM34	5	90.2-91.7	30.4	30.3	4.04	—	—	—	—
DSS45 -KASHIMA	11	88.5-91.4	20.7	33.4	3.82	19.0	12.3	29.7	3.36
DSS45 -KAUAI	15	88.4-91.7	10.0	25.3	2.18	8.2	7.2	24.1	2.14
DSS45 -KWAJAL26	3	88.5-88.6	18.0	29.5	.75	—	—	—	—
DSS45 -MEDICINA	1	91.8-91.8	20.8	—	—	—	—	—	—
DSS45 -MOJAVE12	1	88.4-88.4	20.8	—	—	—	—	—	—
DSS45 -SANTIA12	1	91.9-91.9	20.8	—	—	—	—	—	—
DSS45 -SESHAN25	16	88.5-91.8	25.2	43.6	4.99	1.2	12.0	43.6	5.35
DSS45 -WETTZELL	2	91.3-91.5	158.3	40.3	5.41	—	—	—	—
DSS65 -EFLSBERG	1	91.9-91.9	40.3	—	—	—	—	—	—
DSS65 -HRAS 085	1	88.8-88.8	40.3	—	—	—	—	—	—
DSS65 -MATERA	6	90.4-91.9	76.0	35.8	2.51	—	—	—	—
DSS65 -MEDICINA	10	88.7-91.9	7.5	13.2	2.90	3.9	3.9	12.4	2.90
DSS65 -MOJAVE12	1	88.8-88.8	4.4	—	—	—	—	—	—
DSS65 -NOTO	5	89.4-91.7	17.3	15.6	4.92	-5.2	11.6	15.1	6.15

Table 6.4 (continued)

Vertical Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Square	Rate mm/yr	Error mm/yr	WRMS mm	Chi Square
DSS65 -ONSALA60	10	88.8-91.7	9.4	14.8	3.64	.6	5.4	14.8	4.08
DSS65 -RICHMOND	3	88.7-89.0	14.0	18.8	1.11	—	—	—	—
DSS65 -WESTFORD	5	88.7-89.4	1.1	5.4	.16	—	—	—	—
DSS65 -WETTZELL	12	88.7-91.9	8.6	14.1	4.09	6.0	3.7	12.5	3.55
EFLSBERG-HAYSTACK	7	79.9-83.3	12.9	35.5	.80	2.3	13.4	35.4	.95
EFLSBERG-HRAS 085	6	80.6-83.3	54.9	75.3	2.65	.1	33.9	75.3	3.32
EFLSBERG-MATERA	1	91.9-91.9	33.7	—	—	—	—	—	—
EFLSBERG-MEDICINA	1	91.9-91.9	33.7	—	—	—	—	—	—
EFLSBERG-NRAO 140	1	79.9-79.9	33.7	—	—	—	—	—	—
EFLSBERG-ONSALA60	6	80.6-83.3	6.1	16.8	.66	-8.0	5.8	13.9	.56
EFLSBERG-OVRO 130	6	79.9-80.7	19.8	40.8	1.17	—	—	—	—
EFLSBERG-ROBLED32	1	83.3-83.3	18.2	—	—	—	—	—	—
EFLSBERG-WESTFORD	1	83.3-83.3	18.2	—	—	—	—	—	—
EFLSBERG-WETTZELL	1	91.9-91.9	18.2	—	—	—	—	—	—
ELY -HATCREEK	9	85.3-89.3	19.3	42.2	1.67	-24.0	8.2	28.2	.86
ELY -HRAS 085	10	84.3-89.3	7.5	28.1	.64	-1.3	7.2	28.1	.72
ELY -MOJAVE12	12	84.3-90.8	16.2	40.7	1.75	6.6	8.9	39.7	1.82
ELY -OVRO 130	1	86.3-86.3	12.3	—	—	—	—	—	—
ELY -PLATTVIL	3	84.3-86.3	23.9	42.1	.64	—	—	—	—
ELY -VNDNBERG	5	87.4-88.8	3.7	14.2	.27	—	—	—	—
ELY -WESTFORD	4	89.3-90.8	24.7	41.0	1.09	—	—	—	—
ELY -YUMA	3	87.4-88.3	28.3	44.2	.82	—	—	—	—
FD-VLBA -HRAS 085	4	91.3-91.4	1.1	2.2	.78	—	—	—	—
FLAGSTAF-HATCREEK	8	84.3-90.9	32.5	57.9	2.21	8.3	10.2	54.9	2.32
FLAGSTAF-HRAS 085	6	84.3-88.8	25.8	46.4	1.55	12.5	18.1	43.8	1.73
FLAGSTAF-MOJAVE12	8	84.3-90.9	20.3	43.0	1.56	14.1	7.0	33.2	1.09
FLAGSTAF-PLATTVIL	4	84.3-88.8	49.8	60.5	2.04	.7	36.2	60.5	3.06
FLAGSTAF-VERNAL	2	87.3-88.3	7.1	14.9	.23	—	—	—	—
FLAGSTAF-WESTFORD	2	90.8-90.9	27.2	28.8	.89	—	—	—	—
FORTORDS-GILCREEK	17	88.9-91.6	14.9	44.2	1.81	26.3	15.4	36.4	1.40
FORTORDS-HATCREEK	16	88.9-90.1	10.0	34.5	1.26	—	—	—	—
FORTORDS-HAYSTACK	1	89.8-89.8	8.9	—	—	—	—	—	—
FORTORDS-MOJAVE12	19	88.9-91.6	9.9	36.0	1.38	10.9	14.2	34.8	1.44
FORTORDS-OVRO 130	2	88.9-88.9	65.1	44.3	2.16	—	—	—	—
FORTORDS-PRESIDIO	3	89.8-89.9	63.4	60.2	2.21	—	—	—	—
FORTORDS-PT REYES	5	88.9-89.9	9.8	29.4	.45	—	—	—	—
FORTORDS-QUINCY	2	89.8-89.8	9.0	18.3	.24	—	—	—	—
FORTORDS-VNDNBERG	17	88.9-90.1	12.7	41.2	1.53	—	—	—	—
FORTORDS-WESTFORD	11	89.8-91.6	17.2	40.3	1.83	—	—	—	—
FORTORDS-YLOW7296	2	91.6-91.6	120.2	50.0	5.79	—	—	—	—

Table 6.4 (continued)

Vertical Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Square	Rate mm/yr	Error mm/yr	WRMS mm	Chi Square
FORT ORD-GILCREEK	4	88.1-88.1	4.0	16.0	.19	—	—	—	—
FORT ORD-HATCREEK	10	84.2-88.1	76.7	96.1	5.72	24.8	26.8	91.4	5.82
FORT ORD-HRAS 085	4	85.2-87.8	18.4	34.9	.83	2.0	22.9	34.9	1.24
FORT ORD-JPL MV1	1	87.8-87.8	20.2	—	—	—	—	—	—
FORT ORD-MOJAVE12	11	83.7-88.1	21.1	48.5	1.88	4.3	12.1	48.2	2.06
FORT ORD-MON PEAK	1	87.1-87.1	15.3	—	—	—	—	—	—
FORT ORD-OVRO 130	5	83.7-87.8	17.1	37.4	.84	-3.7	13.9	37.0	1.09
FORT ORD-PRESIDIO	4	83.7-88.1	67.1	66.4	3.07	12.6	29.1	63.5	4.21
FORT ORD-PT REYES	3	87.4-88.1	119.4	78.2	4.67	—	—	—	—
FORT ORD-VNDNBERG	11	83.7-88.1	19.1	48.9	1.52	14.5	11.7	45.2	1.45
FTD 7900-HRAS 085	1	88.8-88.8	15.4	—	—	—	—	—	—
FTD 7900-MOJAVE12	1	88.8-88.8	15.4	—	—	—	—	—	—
FTD 7900-PIETOWN	1	88.8-88.8	15.4	—	—	—	—	—	—
FTD 7900-WESTFORD	1	88.8-88.8	15.4	—	—	—	—	—	—
GILCREEK-GOLDVENU	4	88.5-91.6	13.1	15.0	2.27	9.1	7.5	11.4	1.96
GILCREEK-HALEAKAL	3	88.5-88.5	31.8	36.2	1.55	—	—	—	—
GILCREEK-HARTRAO	4	90.4-92.0	4.7	11.4	.52	—	—	—	—
GILCREEK-HATCREEK	65	85.4-90.8	6.7	33.2	2.61	8.9	2.6	30.4	2.23
GILCREEK-HAYSTACK	23	84.7-91.6	4.8	12.8	3.09	-7.1	4.6	12.1	2.91
GILCREEK-HOBART26	29	89.7-92.0	10.9	33.6	2.96	-37.5	5.9	21.2	1.23
GILCREEK-HRAS 085	55	84.7-89.5	6.8	31.8	2.47	-2.8	4.6	31.7	2.50
GILCREEK-KASHIM34	22	90.2-92.0	9.1	26.9	2.42	—	—	—	—
GILCREEK-KASHIMA	117	84.6-91.9	8.3	44.2	4.14	16.8	1.8	33.2	2.37
GILCREEK-KAUAI	236	84.5-92.0	3.0	28.0	2.60	.0	1.1	28.0	2.61
GILCREEK-KODIAK	15	84.6-90.5	12.5	39.7	1.40	-5.2	8.3	39.1	1.46
GILCREEK-KWAJAL26	19	84.5-88.6	22.5	54.3	3.08	19.2	7.9	46.8	2.42
GILCREEK-LA-VLBA	11	91.4-91.9	11.6	16.3	5.10	—	—	—	—
GILCREEK-MARCUS	1	90.5-90.5	5.1	—	—	—	—	—	—
GILCREEK-MARPOINT	24	88.1-89.6	13.2	49.9	1.60	—	—	—	—
GILCREEK-MATERA	15	90.8-91.9	11.9	30.8	2.10	—	—	—	—
GILCREEK-MEDICINA	3	89.0-91.2	2.4	5.7	.36	—	—	—	—
GILCREEK-MIZUSGSI	1	91.9-91.9	4.0	—	—	—	—	—	—
GILCREEK-MOJAVE12	266	84.5-91.9	1.5	17.8	1.92	3.0	.7	17.3	1.81
GILCREEK-NOBEY 6M	7	89.9-91.5	50.7	67.9	3.34	—	—	—	—
GILCREEK-NOME	10	84.5-90.5	9.5	33.6	.72	-2.2	5.0	33.2	.79
GILCREEK-NOTO	4	89.5-91.2	24.8	29.7	2.10	—	—	—	—
GILCREEK-NRAO85 3	135	89.1-92.0	2.9	25.9	1.72	-11.6	2.7	24.3	1.53
GILCREEK-NRAO 140	1	90.7-90.7	2.2	—	—	—	—	—	—
GILCREEK-ONSALA60	12	85.5-91.6	25.6	34.2	6.19	-15.0	3.3	19.4	2.19
GILCREEK-OVRO 130	12	85.4-88.9	19.8	36.1	3.31	16.3	10.4	32.4	2.92

Table 6.4 (continued)

Vertical Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Square	Rate mm/yr	Error mm/yr	WRMS mm	Chi Square
GILCREEK-PENTICTN	5	84.7-90.6	71.0	79.6	3.18	-31.2	3.6	15.6	.16
GILCREEK-PIETOWN	31	89.6-91.9	5.1	13.1	4.52	10.8	3.3	11.2	3.40
GILCREEK-PINFLATS	2	90.1-90.1	45.9	33.0	1.94	—	—	—	—
GILCREEK-PLATTVIL	10	85.4-90.8	23.6	43.2	2.68	-3.0	9.3	42.9	2.98
GILCREEK-PRESIDIO	10	88.1-91.5	11.4	34.2	.99	11.1	18.1	33.3	1.21
GILCREEK-PT REYES	12	88.1-91.5	17.1	44.1	1.66	-29.4	7.1	26.9	.68
GILCREEK-PVERDES	2	90.1-90.1	14.6	18.1	.65	—	—	—	—
GILCREEK-QUINCY	4	89.8-90.8	4.3	16.6	.20	—	—	—	—
GILCREEK-RICHMOND	139	87.3-92.0	4.4	35.3	2.17	-10.6	3.0	33.8	2.00
GILCREEK-SANPAULA	2	90.1-90.1	9.1	16.0	.33	—	—	—	—
GILCREEK-SANTIA12	2	92.0-92.0	.4	2.6	.02	—	—	—	—
GILCREEK-SEATTLE1	2	90.6-90.6	168.6	74.5	5.12	—	—	—	—
GILCREEK-SESHAN25	17	88.3-92.0	11.6	30.3	2.33	6.9	6.7	29.3	2.32
GILCREEK-SEST	2	90.4-90.4	11.6	14.7	.63	—	—	—	—
GILCREEK-SHANGHAI	1	86.5-86.5	14.7	—	—	—	—	—	—
GILCREEK-SNDPOINT	13	84.5-90.5	10.6	36.2	1.04	6.2	8.1	35.2	1.07
GILCREEK-SOURDOGH	16	84.6-89.6	13.0	39.5	1.62	4.9	13.8	38.8	1.81
GILCREEK-TRYSILNO	6	91.9-92.0	4.3	13.7	.50	—	—	—	—
GILCREEK-VICTORIA	3	90.6-90.6	4.7	15.9	.17	—	—	—	—
GILCREEK-VNDNBERG	80	84.5-91.6	5.0	31.3	2.00	-4.0	2.0	30.5	1.93
GILCREEK-WESTFORD	166	84.7-92.0	4.3	24.6	5.03	-12.9	1.1	18.0	2.70
GILCREEK-WETTZELL	34	84.7-92.0	12.0	26.5	6.72	-15.3	2.1	16.5	2.68
GILCREEK-WHTHORSE	9	84.6-89.6	38.7	58.7	3.48	14.5	19.4	56.5	3.68
GILCREEK-YAKATAGA	16	84.6-90.4	21.1	52.3	2.43	-38.9	12.2	36.6	1.37
GILCREEK-YELLOWKN	2	84.7-85.7	25.8	26.4	.96	—	—	—	—
GILCREEK-YLOW7296	8	91.5-91.6	3.0	10.5	.57	—	—	—	—
GOLDVENU-HAYSTACK	4	81.9-91.6	69.5	35.0	1.84	-11.9	9.5	26.2	9.95
GOLDVENU-HRAS 085	3	81.9-82.8	7.6	18.9	.32	—	—	—	—
GOLDVENU-KASHIM34	1	90.6-90.6	13.4	—	—	—	—	—	—
GOLDVENU-KASHIMA	1	91.6-91.6	13.4	—	—	—	—	—	—
GOLDVENU-MEDICINA	2	90.6-91.2	2.7	4.6	.34	—	—	—	—
GOLDVENU-MOJAVE12	5	83.7-88.5	9.7	12.7	2.33	4.3	2.9	9.7	1.82
GOLDVENU-MOJ 7288	1	87.8-87.8	6.3	—	—	—	—	—	—
GOLDVENU-NRAO 140	1	81.9-81.9	6.3	—	—	—	—	—	—
GOLDVENU-ONSALA60	6	81.9-91.6	46.4	39.4	6.92	-16.3	3.7	16.1	1.45
GOLDVENU-OVRO 130	6	81.9-87.8	9.1	21.7	.88	.2	4.1	21.7	1.10
GOLDVENU-OVR 7853	1	87.8-87.8	9.7	—	—	—	—	—	—
GOLDVENU-PRESIDIO	1	83.7-83.7	9.7	—	—	—	—	—	—
GOLDVENU-PT REYES	1	83.7-83.7	9.7	—	—	—	—	—	—
GOLDVENU-QUINCY	1	82.8-82.8	9.7	—	—	—	—	—	—

Table 6.4 (continued)

Vertical Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Square	Rate mm/yr	Error mm/yr	WRMS mm	Chi Square
GOLDVENU-VNDNBERG	1	83.7-83.7	9.7	—	—	—	—	—	—
GOLDVENU-WESTFORD	4	81.9-88.5	50.8	42.2	4.33	-12.7	4.8	20.0	1.46
GORF7102-HRAS 085	1	89.4-89.4	24.4	—	—	—	—	—	—
GORF7102-MARPOINT	2	89.4-89.4	5.2	10.5	.24	—	—	—	—
GORF7102-MOJAVE12	5	89.8-91.9	24.8	32.6	2.33	39.3	4.8	6.7	.13
GORF7102-NRAO85 3	4	89.4-91.7	24.4	26.1	2.62	20.8	15.7	19.0	2.09
GORF7102-RICHMOND	6	89.4-91.7	16.0	27.3	1.72	23.4	6.9	13.8	.55
GORF7102-SANTIA12	1	91.9-91.9	12.2	—	—	—	—	—	—
GORF7102-WESTFORD	7	89.4-91.9	18.7	30.1	2.31	27.6	6.0	13.1	.53
GORF7102-WETTZELL	1	91.9-91.9	12.3	—	—	—	—	—	—
GRASSE -MOJAVE12	1	89.7-89.7	12.3	—	—	—	—	—	—
GRASSE -NOTO	2	89.7-89.7	18.8	17.2	1.20	—	—	—	—
GRASSE -RICHMOND	1	89.7-89.7	17.2	—	—	—	—	—	—
GRASSE -WESTFORD	1	89.7-89.7	17.2	—	—	—	—	—	—
GRASSE -WETTZELL	4	89.7-89.7	7.0	13.0	.87	—	—	—	—
HALEAKAL-KAUAI	3	88.5-88.5	48.4	41.4	2.73	—	—	—	—
HALEAKAL-MOJAVE12	3	88.5-88.5	12.8	23.6	.59	—	—	—	—
HARTRAO -HOBART26	27	90.0-92.0	18.8	63.1	2.32	—	—	—	—
HARTRAO -HRAS 085	6	87.1-89.2	9.6	24.0	.79	5.5	26.0	23.9	.98
HARTRAO -KASHIM34	6	90.4-92.0	32.6	36.2	4.06	—	—	—	—
HARTRAO -KASHIMA	2	90.3-90.4	70.7	35.1	4.06	—	—	—	—
HARTRAO -KAUAI	4	90.4-92.0	76.6	39.3	1.40	—	—	—	—
HARTRAO -MATERA	1	91.9-91.9	22.7	—	—	—	—	—	—
HARTRAO -MEDICINA	5	88.0-91.8	51.2	57.1	3.22	29.7	25.6	47.4	2.96
HARTRAO -MOJAVE12	23	90.0-91.9	8.0	25.3	2.20	—	—	—	—
HARTRAO -NOTO	4	91.4-91.7	47.3	45.2	3.29	—	—	—	—
HARTRAO -NRAO85 3	1	91.9-91.9	26.1	—	—	—	—	—	—
HARTRAO -ONSALA60	7	86.0-90.4	71.1	71.9	5.86	40.0	7.7	28.3	1.09
HARTRAO -RICHMOND	40	86.0-91.9	8.4	35.5	2.18	7.4	3.1	33.1	1.94
HARTRAO -SANTIA12	4	91.9-92.0	1.3	8.4	.07	—	—	—	—
HARTRAO -SESHAN25	7	90.3-92.0	22.0	36.4	2.19	—	—	—	—
HARTRAO -SEST	2	90.4-90.4	.9	5.4	.03	—	—	—	—
HARTRAO -WESTFORD	50	86.0-92.0	12.1	45.9	3.39	14.8	3.2	38.3	2.41
HARTRAO -WETTZELL	46	86.0-92.0	19.0	57.8	4.87	18.9	3.7	45.7	3.11
HATCREEK-HAYSTACK	2	84.3-89.8	11.3	14.5	.60	—	—	—	—
HATCREEK-HRAS 085	62	83.4-89.4	7.1	39.4	1.97	-2.5	3.1	39.2	1.98
HATCREEK-JPL MV1	2	83.5-87.8	5.4	12.8	.18	—	—	—	—
HATCREEK-KASHIM34	1	90.8-90.8	12.8	—	—	—	—	—	—
HATCREEK-KASHIMA	16	84.2-90.1	37.3	53.9	7.19	25.9	5.7	34.3	3.13
HATCREEK-KAUAI	17	85.4-90.8	10.9	29.6	2.16	9.0	4.4	26.2	1.80

Table 6.4 (continued)

Vertical Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Square	Rate mm/yr	Error mm/yr	WRMS mm	Chi Square
HATCREEK-KODIAK	2	87.5-87.5	42.3	33.6	1.59	—	—	—	—
HATCREEK-MAMMOTHL	1	83.5-83.5	33.6	—	—	—	—	—	—
HATCREEK-MOJAVE12	139	83.5-90.9	4.0	31.3	2.20	2.1	1.6	31.1	2.19
HATCREEK-MON PEAK	24	83.5-90.9	14.5	50.1	1.91	5.7	6.3	49.2	1.93
HATCREEK-OVRO 130	38	83.4-88.9	13.9	49.8	2.90	15.8	4.4	42.7	2.19
HATCREEK-PINFLATS	2	90.1-90.1	3.1	8.6	.13	—	—	—	—
HATCREEK-PLATTVIL	22	83.4-90.8	20.8	55.6	2.93	-4.8	6.4	54.8	2.99
HATCREEK-PRESIDIO	14	85.8-90.1	22.6	53.3	2.34	21.8	13.5	43.2	1.82
HATCREEK-PT REYES	16	84.2-90.0	26.5	61.7	2.77	-3.1	13.1	61.6	2.96
HATCREEK-PVERDES	4	89.1-90.1	12.3	24.9	.73	—	—	—	—
HATCREEK-QUINCY	17	83.5-90.8	16.7	45.7	2.13	2.9	6.9	45.5	2.25
HATCREEK-SANPAULA	4	89.1-90.1	43.0	48.2	2.38	—	—	—	—
HATCREEK-SNDPOINT	1	87.6-87.6	27.8	—	—	—	—	—	—
HATCREEK-VERNAL	8	86.2-90.8	9.4	28.7	.74	-4.5	8.1	28.0	.82
HATCREEK-VNDNBERG	92	84.2-90.1	6.6	36.9	2.94	-5.3	3.0	36.3	2.87
HATCREEK-WESTFORD	32	83.4-90.9	11.4	37.4	2.90	-15.9	3.9	29.9	1.91
HATCREEK-YAKATAGA	3	87.6-87.6	3.7	14.2	.14	—	—	—	—
HATCREEK-YUMA	12	85.2-88.8	14.7	40.7	1.43	-6.3	13.8	40.3	1.54
HAYSTACK-HRAS 085	36	80.3-89.5	13.7	56.5	2.07	10.4	3.2	49.3	1.62
HAYSTACK-KASHIM34	1	90.6-90.6	9.6	—	—	—	—	—	—
HAYSTACK-KASHIMA	3	84.7-91.6	305.7	85.3	5.71	—	—	—	—
HAYSTACK-KODIAK	1	89.5-89.5	60.3	—	—	—	—	—	—
HAYSTACK-MARPOINT	2	82.5-82.5	4.8	8.9	.29	—	—	—	—
HAYSTACK-MEDICINA	2	90.6-91.2	12.1	9.3	1.69	—	—	—	—
HAYSTACK-MOJAVE12	24	84.3-89.8	3.5	11.2	2.30	7.0	2.3	9.4	1.70
HAYSTACK-NRAO 140	5	79.6-81.9	20.1	24.3	2.73	-21.6	10.6	15.8	1.53
HAYSTACK-ONSALA60	42	80.6-91.6	7.7	35.2	1.94	-2.4	1.3	33.7	1.82
HAYSTACK-OVRO 130	29	79.6-88.9	21.6	57.4	3.97	15.7	2.3	35.2	1.54
HAYSTACK-PIETOWN	13	89.6-89.8	3.0	6.9	2.29	—	—	—	—
HAYSTACK-PLATTVIL	1	84.3-84.3	2.0	—	—	—	—	—	—
HAYSTACK-PRESIDIO	1	89.8-89.8	2.0	—	—	—	—	—	—
HAYSTACK-ROBLED32	1	83.3-83.3	2.0	—	—	—	—	—	—
HAYSTACK-VNDNBERG	1	89.8-89.8	2.0	—	—	—	—	—	—
HAYSTACK-WESTFORD	26	81.4-89.8	.7	4.3	.66	-.1	.6	4.3	.69
HAYSTACK-WETTZELL	6	84.7-86.7	25.6	33.4	2.93	-32.1	15.2	23.0	1.73
HAYSTACK-YAKATAGA	1	89.6-89.6	14.9	—	—	—	—	—	—
HOBART26-KASHIM34	18	90.2-92.0	18.5	42.6	3.20	—	—	—	—
HOBART26-KASHIMA	9	89.7-90.5	11.3	23.4	1.86	—	—	—	—
HOBART26-KAUAI	14	89.7-92.0	22.0	40.1	3.89	41.2	11.5	27.9	2.04
HOBART26-MOJAVE12	20	90.0-91.9	11.0	31.6	2.29	—	—	—	—

Table 6.4 (continued)

Vertical Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Square	Rate mm/yr	Error mm/yr	WRMS mm	Chi Square
HOBART26-NOBEY 6M	4	90.2-91.5	42.3	48.1	2.32	—	—	—	—
HOBART26-ONSALA60	2	90.4-90.4	4.2	6.7	.40	—	—	—	—
HOBART26-SANTIA12	4	91.9-92.0	14.2	24.6	1.00	—	—	—	—
HOBART26-SESHAN25	9	90.0-92.0	16.9	30.5	2.45	—	—	—	—
HOBART26-SEST	2	90.4-90.4	64.8	39.9	2.64	—	—	—	—
HOBART26-WESTFORD	4	90.4-92.0	13.6	16.5	2.04	—	—	—	—
HOBART26-WETTZELL	4	91.3-92.0	46.7	32.1	6.32	—	—	—	—
HOHENFRG-MOJAVE12	2	89.5-89.5	4.1	9.3	.20	—	—	—	—
HOHENFRG-NOTO	5	89.5-89.5	6.6	15.6	.72	—	—	—	—
HOHENFRG-RICHMOND	2	89.5-89.5	1.8	6.2	.08	—	—	—	—
HOHENFRG-WESTFORD	2	89.5-89.5	1.1	4.7	.06	—	—	—	—
HOHENFRG-WETTZELL	5	89.5-89.5	9.8	17.5	1.26	—	—	—	—
HRAS 085-JPL MV1	3	82.8-87.8	68.6	64.0	2.30	—	—	—	—
HRAS 085-KASHIMA	27	87.3-89.5	12.1	50.5	1.50	44.1	12.4	41.1	1.04
HRAS 085-KODIAK	1	89.5-89.5	9.9	—	—	—	—	—	—
HRAS 085-LEONRDOK	1	87.6-87.6	9.9	—	—	—	—	—	—
HRAS 085-MAMMOTHL	1	83.5-83.5	9.9	—	—	—	—	—	—
HRAS 085-MARPOINT	3	82.8-89.4	20.0	26.4	1.15	—	—	—	—
HRAS 085-MCD 7850	1	88.8-88.8	18.7	—	—	—	—	—	—
HRAS 085-MEDICINA	12	87.3-89.1	6.0	22.6	.77	—	—	—	—
HRAS 085-MILESMON	1	88.3-88.3	6.8	—	—	—	—	—	—
HRAS 085-MOJAVE12	134	83.5-90.8	2.6	24.2	1.50	5.8	1.1	22.1	1.26
HRAS 085-MON PEAK	33	82.8-89.4	8.9	44.9	1.26	8.4	4.6	42.7	1.18
HRAS 085-NRAO85 3	1	89.4-89.4	7.9	—	—	—	—	—	—
HRAS 085-NRAO 140	6	80.3-88.8	55.6	48.5	6.55	-9.1	5.4	37.1	4.79
HRAS 085-ONSALA60	107	80.6-89.4	5.8	45.6	1.72	-8.3	1.7	41.2	1.41
HRAS 085-OVRO 130	73	80.3-88.8	6.5	41.5	1.77	2.0	1.9	41.2	1.77
HRAS 085-PENTICTN	3	84.7-85.7	163.8	113.0	4.20	—	—	—	—
HRAS 085-PIETOWN	3	88.7-88.8	1.7	4.3	.32	—	—	—	—
HRAS 085-PINFLATS	5	85.8-87.0	24.3	43.3	1.26	—	—	—	—
HRAS 085-PLATTVIL	20	83.4-89.3	18.8	51.5	2.53	-9.9	7.4	49.1	2.42
HRAS 085-PRESIDIO	4	85.2-87.1	39.3	50.5	1.81	—	—	—	—
HRAS 085-PT REYES	2	85.2-85.8	.4	3.6	.01	—	—	—	—
HRAS 085-QUINCY	14	82.8-89.3	21.2	52.4	2.12	-3.5	8.5	52.1	2.26
HRAS 085-RICHMOND	350	84.0-90.8	2.2	36.2	1.26	-3.1	1.1	35.8	1.24
HRAS 085-ROBLED32	1	83.3-83.3	1.9	—	—	—	—	—	—
HRAS 085-VERNAL	6	86.2-89.3	35.6	48.0	2.75	-9.6	21.1	46.9	3.27
HRAS 085-VNDNBERG	44	83.9-89.4	11.8	47.5	2.66	14.5	5.0	43.4	2.28
HRAS 085-WESTFORD	597	81.4-90.8	2.1	37.8	1.89	-10.9	.7	31.9	1.35
HRAS 085-WETTZELL	415	83.9-90.8	1.5	30.0	1.00	-1.6	.9	29.9	.99

Table 6.4 (continued)

Vertical Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Square	Rate mm/yr	Error mm/yr	WRMS mm	Chi Square
HRAS 085-YELLOWKN	2	84.7-85.7	120.2	62.7	3.68	—	—	—	—
HRAS 085-YUMA	18	83.8-88.8	16.0	48.1	1.88	-9.1	11.2	47.2	1.92
JPL MV1 -MAMMOTHL	4	83.5-86.8	51.3	69.1	1.65	17.3	30.3	64.1	2.13
JPL MV1 -MOJAVE12	21	83.5-88.9	13.3	50.5	1.39	7.5	7.3	49.2	1.39
JPL MV1 -MON PEAK	1	82.8-82.8	11.3	—	—	—	—	—	—
JPL MV1 -OVRO 130	19	82.8-88.9	21.6	69.0	1.76	10.1	8.4	66.2	1.72
JPL MV1 -PBLOSSOM	7	83.1-88.0	52.1	94.0	1.85	16.3	25.9	90.4	2.05
JPL MV1 -PINFLATS	6	83.8-87.0	49.8	73.8	2.28	-3.3	45.5	73.7	2.85
JPL MV1 -PRESIDIO	2	88.8-88.9	139.9	63.3	4.88	—	—	—	—
JPL MV1 -QUINCY	1	82.8-82.8	63.3	—	—	—	—	—	—
JPL MV1 -VNDNBERG	18	83.6-88.9	52.0	98.6	4.72	3.4	20.3	98.5	5.01
KASHIM34-KASHIMA	6	90.2-90.5	5.3	12.7	.87	—	—	—	—
KASHIM34-KAUAI	10	90.2-92.0	10.4	22.3	1.96	—	—	—	—
KASHIM34-MARCUS	1	90.5-90.5	7.4	—	—	—	—	—	—
KASHIM34-MEDICINA	1	90.6-90.6	7.4	—	—	—	—	—	—
KASHIM34-MOJAVE12	11	90.2-91.5	25.1	40.7	3.82	—	—	—	—
KASHIM34-NOBEY 6M	5	90.2-91.5	77.1	71.8	4.62	—	—	—	—
KASHIM34-ONSALA60	3	90.4-90.6	5.8	9.9	.68	—	—	—	—
KASHIM34-SANTIA12	2	92.0-92.0	3.7	6.0	.38	—	—	—	—
KASHIM34-SESHAN25	9	90.2-92.0	11.6	24.2	1.84	—	—	—	—
KASHIM34-SEST	2	90.4-90.4	.1	1.1	.01	—	—	—	—
KASHIM34-SINTOTU	1	90.6-90.6	1.1	—	—	—	—	—	—
KASHIM34-WESTFORD	4	90.4-92.0	1.1	5.4	.13	—	—	—	—
KASHIM34-WETTZELL	4	91.3-92.0	78.3	47.8	8.04	—	—	—	—
KASHIMA -KAUAI	66	84.6-91.4	43.0	81.3	8.18	-45.1	1.9	26.5	1.97
KASHIMA -KWAJAL26	16	84.6-88.6	17.8	45.9	2.25	-12.9	8.5	42.5	2.07
KASHIMA -MARCUS	1	90.5-90.5	11.8	—	—	—	—	—	—
KASHIMA -MEDICINA	1	90.4-90.4	11.8	—	—	—	—	—	—
KASHIMA -MIYAZAKI	3	86.8-88.8	32.7	43.3	1.14	—	—	—	—
KASHIMA -MIZUSGSI	1	91.9-91.9	30.6	—	—	—	—	—	—
KASHIMA -MOJAVE12	56	84.1-91.2	12.5	42.9	4.65	-17.0	2.0	28.0	2.02
KASHIMA -NOBEY 6M	3	89.9-90.2	2.5	10.3	.12	—	—	—	—
KASHIMA -ONSALA60	7	85.5-91.6	73.5	56.2	0.24	-23.3	5.7	26.9	2.82
KASHIMA -RICHMOND	29	87.3-90.1	21.7	60.8	3.56	-46.0	7.6	39.5	1.56
KASHIMA -SESHAN25	15	88.3-91.4	11.0	27.2	2.32	12.4	7.8	24.8	2.09
KASHIMA -SHANGHAI	1	86.5-86.5	7.3	—	—	—	—	—	—
KASHIMA -SINTOTU	3	90.6-90.6	32.7	31.7	2.12	—	—	—	—
KASHIMA -TITIJIMA	3	87.9-89.9	43.6	59.7	1.07	—	—	—	—
KASHIMA -TSUKUBA	7	84.6-89.7	37.7	56.9	2.63	24.3	15.6	46.7	2.13
KASHIMA -USUDA64	1	90.6-90.6	23.2	—	—	—	—	—	—

Table 6.4 (continued)

Vertical Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Square	Rate mm/yr	Error mm/yr	WRMS mm	Chi Square
KASHIMA -VNDNBERG	27	85.4-90.1	43.4	67.6	0.72	-39.4	4.7	34.7	2.93
KASHIMA -WESTFORD	8	85.5-90.0	50.1	48.2	7.56	-26.0	6.0	23.6	2.11
KASHIMA -WETTZELL	12	84.7-90.4	74.3	69.1	2.71	-28.9	7.1	42.5	5.30
KASHIMA -WHTHORSE	1	89.6-89.6	20.8	—	—	—	—	—	—
KAUAI -KWAJAL26	20	84.5-88.6	33.1	69.5	4.30	34.2	7.9	48.7	2.22
KAUAI -LA-VLBA	11	91.4-91.9	35.0	30.1	3.53	—	—	—	—
KAUAI -MARPOINT	6	88.4-89.4	73.4	87.3	3.54	—	—	—	—
KAUAI -MATERA	15	90.8-91.9	9.2	25.6	1.81	—	—	—	—
KAUAI -MOJAVE12	65	84.5-91.9	12.8	39.1	6.84	-15.0	1.2	21.5	2.11
KAUAI -NOTO	3	89.5-91.2	.6	3.7	.05	—	—	—	—
KAUAI -NRAO85 3	129	89.1-92.0	6.3	38.5	3.45	-40.8	3.2	25.5	1.53
KAUAI -ONSALA60	2	90.4-90.4	1.3	4.0	.10	—	—	—	—
KAUAI -PIETOWN	6	91.1-91.9	20.7	18.1	6.58	—	—	—	—
KAUAI -RICHMOND	98	88.4-92.0	7.3	40.9	3.12	-38.5	4.2	29.8	1.68
KAUAI -SANTIA12	2	92.0-92.0	21.9	21.0	1.09	—	—	—	—
KAUAI -SESHAN25	18	88.3-92.0	39.7	54.9	8.89	38.8	8.4	36.0	4.05
KAUAI -SEST	2	90.4-90.4	6.0	11.1	.29	—	—	—	—
KAUAI -SHANGHAI	1	86.5-86.5	11.1	—	—	—	—	—	—
KAUAI -VNDNBERG	32	84.5-90.1	15.6	42.8	4.10	-20.2	3.5	29.3	1.99
KAUAI -WESTFORD	22	90.4-92.0	10.3	21.9	4.68	—	—	—	—
KAUAI -WETTZELL	17	91.1-92.0	4.4	12.8	1.93	—	—	—	—
KAUAI -WHTHORSE	1	89.6-89.6	3.2	—	—	—	—	—	—
KODIAK -MOJAVE12	10	87.5-90.5	6.1	24.8	.54	6.9	7.4	23.5	.55
KODIAK -NOME	4	84.6-86.6	49.7	78.1	1.21	-11.9	82.2	77.7	1.80
KODIAK -VNDNBERG	4	84.6-86.6	51.9	70.0	1.65	-50.4	85.9	64.6	2.11
KODIAK -WESTFORD	8	88.5-90.5	16.5	38.2	1.30	—	—	—	—
KWAJAL26-MOJAVE12	17	84.5-88.6	34.0	66.1	4.24	-38.5	8.2	42.0	1.82
KWAJAL26-SESHAN25	3	88.5-88.6	57.3	48.5	2.79	—	—	—	—
KWAJAL26-VNDNBERG	12	84.5-88.6	59.9	79.4	6.26	-54.4	17.0	55.8	3.40
LA-VLBA -MOJAVE12	12	91.4-91.9	20.4	20.7	0.71	—	—	—	—
LA-VLBA -PIETOWN	4	91.4-91.9	42.9	16.6	0.09	—	—	—	—
LA-VLBA -WESTFORD	12	91.4-91.9	20.0	19.8	1.23	—	—	—	—
LA-VLBA -WETTZELL	12	91.4-91.9	12.9	19.2	4.99	—	—	—	—
LEONRDOK-RICHMOND	1	87.6-87.6	5.8	—	—	—	—	—	—
LEONRDOK-WESTFORD	1	87.6-87.6	5.8	—	—	—	—	—	—
MAMMOTHL-MOJAVE12	4	83.5-86.8	34.3	47.4	1.57	-27.6	14.4	28.2	.83
MAMMOTHL-OVRO 130	4	83.5-86.8	3.6	17.0	.14	3.3	7.9	16.3	.19
MAMMOTHL-VNDNBERG	2	84.8-86.8	99.8	52.3	3.64	—	—	—	—
MARCUS -SESHAN25	1	90.5-90.5	52.3	—	—	—	—	—	—
MARPOINT-MEDICINA	1	89.0-89.0	52.3	—	—	—	—	—	—

Table 6.4 (continued)

Vertical Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Square	Rate mm/yr	Error mm/yr	WRMS mm	Chi Square
MARPOINT-NOTO	1	89.5-89.5	52.3	—	—	—	—	—	—
MARPOINT-NRAO85 3	11	89.1-89.6	32.0	48.5	4.36	—	—	—	—
MARPOINT-ONSALA60	4	82.5-83.7	20.0	34.1	1.03	—	—	—	—
MARPOINT-OVRO 130	3	82.5-82.8	5.6	16.6	.23	—	—	—	—
MARPOINT-RICHMOND	22	87.6-89.6	11.2	41.7	1.52	14.4	14.2	40.7	1.52
MARPOINT-WESTFORD	9	82.5-89.4	44.9	55.8	5.18	-5.3	7.0	53.7	5.47
MATERA -MEDICINA	5	90.4-91.9	102.2	37.1	0.45	—	—	—	—
MATERA -MOJAVE12	3	91.8-92.0	6.9	10.4	.89	—	—	—	—
MATERA -NOTO	4	90.7-91.7	143.4	43.4	2.72	—	—	—	—
MATERA -NRAO85 3	15	90.8-91.9	16.2	38.7	2.44	—	—	—	—
MATERA -ONSALA60	4	90.7-91.7	146.4	42.2	6.11	—	—	—	—
MATERA -RICHMOND	4	91.8-92.0	9.1	14.5	1.18	—	—	—	—
MATERA -WESTFORD	3	91.8-92.0	6.1	9.5	.82	—	—	—	—
MATERA -WETTZELL	10	90.4-92.0	44.3	30.8	8.59	—	—	—	—
MCD 7850-MOJAVE12	1	88.8-88.8	10.3	—	—	—	—	—	—
MCD 7850-PIETOWN	1	88.8-88.8	10.3	—	—	—	—	—	—
MCD 7850-WESTFORD	1	88.8-88.8	10.3	—	—	—	—	—	—
MEDICINA-NOTO	4	90.1-91.7	28.2	17.5	7.83	—	—	—	—
MEDICINA-ONSALA60	13	87.3-91.7	12.8	19.9	4.95	-6.6	5.1	18.6	4.69
MEDICINA-RICHMOND	14	87.3-89.0	6.4	24.8	.86	—	—	—	—
MEDICINA-SESHAN25	2	90.4-91.8	30.2	23.0	1.72	—	—	—	—
MEDICINA-WESTFORD	19	87.3-89.1	9.1	27.9	1.93	—	—	—	—
MEDICINA-WETTZELL	22	87.3-91.9	6.8	17.0	3.31	2.9	2.9	16.6	3.31
METSHOVI-MOJAVE12	2	89.5-89.5	68.1	43.4	2.47	—	—	—	—
METSHOVI-ONSALA60	5	89.5-89.5	16.8	30.4	1.21	—	—	—	—
METSHOVI-RICHMOND	2	89.5-89.5	23.3	26.7	.76	—	—	—	—
METSHOVI-WESTFORD	2	89.5-89.5	76.1	48.1	2.50	—	—	—	—
METSHOVI-WETTZELL	5	89.5-89.5	37.6	45.1	2.78	—	—	—	—
MILESMON-MOJAVE12	1	88.3-88.3	22.5	—	—	—	—	—	—
MILESMON-WESTFORD	1	88.3-88.3	22.5	—	—	—	—	—	—
MOJAVE12-MON PEAK	36	83.5-90.9	9.4	43.4	1.65	.8	4.6	43.4	1.70
MOJAVE12-NOBEY 6M	7	89.9-91.5	35.4	53.9	2.59	—	—	—	—
MOJAVE12-NOME	3	90.5-90.5	6.1	16.8	.26	—	—	—	—
MOJAVE12-NOTO	10	89.5-91.7	13.4	28.4	2.00	-20.8	8.0	20.9	1.22
MOJAVE12-NRAO85 3	9	89.5-91.8	15.3	26.7	2.61	-24.3	7.3	16.6	1.15
MOJAVE12-NRAO 140	3	88.8-91.8	10.9	13.1	1.37	—	—	—	—
MOJAVE12-OCOTILLO	3	84.2-85.2	140.9	100.5	3.93	—	—	—	—
MOJAVE12-ONSALA60	47	83.8-91.7	9.5	32.5	3.92	-13.9	1.7	20.6	1.60
MOJAVE12-OVRO 130	81	83.5-88.9	3.7	28.7	1.36	2.8	2.0	28.3	1.35
MOJAVE12-OVR 7853	1	87.8-87.8	3.2	—	—	—	—	—	—

Table 6.4 (continued)

Vertical Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Square	Rate mm/yr	Error mm/yr	WRMS mm	Chi Square
MOJAVE12-PBLOSSOM	9	83.6-88.1	23.5	49.9	1.78	17.3	10.6	42.5	1.47
MOJAVE12-PENTICTN	3	90.6-90.6	9.7	23.4	.34	—	—	—	—
MOJAVE12-PIETOWN	34	88.7-91.9	2.8	9.4	3.00	3.4	2.4	9.1	2.90
MOJAVE12-PINFLATS	21	83.8-90.1	12.2	43.4	1.57	-1.0	6.9	43.4	1.65
MOJAVE12-PLATTVIL	21	84.3-90.8	13.8	43.4	2.03	-10.7	4.8	38.6	1.70
MOJAVE12-PRESIDIO	22	83.7-91.5	13.1	43.7	1.89	2.9	7.2	36.3	1.44
MOJAVE12-PT REYES	20	83.7-91.5	5.9	28.9	.79	-6.4	4.1	27.1	.74
MOJAVE12-PVERDES	9	83.9-90.1	6.9	26.9	.54	8.9	6.2	23.6	.47
MOJAVE12-QUINCY	20	83.5-90.8	10.0	35.4	1.50	-4.9	5.3	34.6	1.52
MOJAVE12-RICHMOND	191	84.0-92.0	3.1	26.8	2.52	-17.2	2.4	23.8	2.00
MOJAVE12-SANPAULA	10	83.7-90.1	11.9	38.8	.85	-7.5	8.2	36.9	.86
MOJAVE12-SANTIA12	1	91.9-91.9	12.9	—	—	—	—	—	—
MOJAVE12-SEATTLE1	3	86.7-90.6	88.2	68.7	3.30	—	—	—	—
MOJAVE12-SEST	1	90.3-90.3	48.5	—	—	—	—	—	—
MOJAVE12-SNDPOINT	10	87.6-90.5	15.3	40.6	1.28	43.4	9.8	21.9	.42
MOJAVE12-SOURDOGH	8	87.6-89.6	19.2	40.4	1.59	—	—	—	—
MOJAVE12-TROMSONO	1	89.6-89.6	15.3	—	—	—	—	—	—
MOJAVE12-VERNAL	8	86.2-90.8	30.7	46.8	3.02	-19.2	12.4	39.5	2.52
MOJAVE12-VICTORIA	3	90.6-90.6	5.5	17.5	.19	—	—	—	—
MOJAVE12-VNDNBERG	163	83.6-91.6	4.2	32.7	2.65	-1.7	1.7	32.6	2.65
MOJAVE12-WESTFORD	403	83.5-92.0	2.4	24.7	3.63	-13.6	.7	17.9	1.91
MOJAVE12-WETTZELL	230	84.7-92.0	2.0	21.4	1.98	-10.2	1.0	17.8	1.37
MOJAVE12-WHTHORSE	5	88.6-89.6	69.6	62.6	4.95	—	—	—	—
MOJAVE12-YAKATAGA	10	87.6-90.4	22.1	48.1	1.90	-23.5	20.6	34.7	1.27
MOJAVE12-YLOW7296	8	91.5-91.6	8.6	18.5	1.52	—	—	—	—
MOJAVE12-YUMA	21	83.8-88.8	15.5	46.3	2.25	-16.3	9.1	42.8	2.03
MOJ 7288-MOJAVE12	1	87.8-87.8	10.4	—	—	—	—	—	—
MOJ 7288-OVRO 130	1	87.8-87.8	10.4	—	—	—	—	—	—
MOJ 7288-OVR 7853	1	87.8-87.8	10.4	—	—	—	—	—	—
MON PEAK-OVRO 130	20	82.8-88.8	12.8	47.6	1.36	1.1	6.3	47.6	1.43
MON PEAK-QUINCY	13	83.5-88.8	19.0	52.7	1.57	-.4	10.5	52.7	1.71
MON PEAK-VNDNBERG	26	83.9-89.4	11.9	44.9	1.77	6.1	6.8	44.2	1.78
MON PEAK-WESTFORD	2	90.9-90.9	.0	.9	.00	—	—	—	—
MON PEAK-YUMA	8	83.8-87.9	31.4	56.7	2.15	-45.8	17.8	39.1	1.19
NOME -SNDPOINT	3	84.5-86.6	87.8	81.0	2.35	—	—	—	—
NOME -VNDNBERG	7	84.5-86.6	8.5	32.1	.42	-33.1	13.1	21.2	.22
NOME -WESTFORD	3	90.5-90.5	.2	3.0	.01	—	—	—	—
NOTO -NRAO85 3	4	89.5-91.2	2.2	9.0	.19	—	—	—	—
NOTO -ONSALA60	7	89.4-91.7	6.1	11.3	1.77	-1.6	6.7	11.2	2.10
NOTO -RICHMOND	9	89.5-91.7	15.0	30.0	2.00	-6.2	12.1	29.5	2.20

Table 6.4 (continued)

Vertical Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Square	Rate mm/yr	Error mm/yr	WRMS mm	Chi Square
NOTO -WESTFORD	10	89.4-91.7	11.6	26.0	1.79	3.3	9.8	25.9	1.99
NOTO -WETTZELL	21	89.4-91.7	5.4	16.4	2.14	6.4	4.4	15.5	2.03
NRAO85 3-RICHMOND	104	89.3-92.0	3.7	25.9	2.12	2.6	3.2	25.8	2.13
NRAO85 3-WESTFORD	8	89.4-91.8	16.0	21.6	3.88	5.5	12.2	21.2	4.37
NRAO85 3-WETTZELL	1	91.9-91.9	8.2	—	—	—	—	—	—
NRAO 140-NRAO85 3	1	91.8-91.8	8.2	—	—	—	—	—	—
NRAO 140-ONSALA60	4	81.9-83.0	92.8	83.7	3.69	—	—	—	—
NRAO 140-OVRO 130	8	79.6-88.8	55.0	54.9	7.00	14.4	2.7	23.0	1.43
NRAO 140-RICHMOND	1	91.8-91.8	20.8	—	—	—	—	—	—
NRAO 140-WESTFORD	7	81.9-91.8	21.3	24.4	4.58	-2.8	2.3	21.5	4.26
OCOTILLO-OVRO 130	1	85.2-85.2	10.0	—	—	—	—	—	—
OCOTILLO-PVERDES	1	85.2-85.2	10.0	—	—	—	—	—	—
OCOTILLO-VNDNBERG	3	84.2-85.2	144.7	103.8	3.88	—	—	—	—
ONSALA60-OVRO 130	33	80.6-87.8	20.5	61.6	3.55	13.6	3.5	50.3	2.44
ONSALA60-RICHMOND	69	84.1-91.7	5.3	31.0	1.99	2.7	2.2	30.6	1.98
ONSALA60-ROBLED32	1	83.3-83.3	3.8	—	—	—	—	—	—
ONSALA60-SEST	3	90.3-90.4	4.5	11.4	.30	—	—	—	—
ONSALA60-TROMSONO	4	89.6-89.6	11.5	21.0	.90	—	—	—	—
ONSALA60-WESTFORD	154	81.8-91.7	4.2	32.6	2.50	1.8	1.2	32.4	2.48
ONSALA60-WETTZELL	136	83.6-91.7	3.0	20.9	2.71	3.2	1.0	20.1	2.51
OVRO 130-PBLOSSOM	7	83.1-87.8	12.0	38.0	.60	8.6	10.8	35.8	.64
OVRO 130-PINFLATS	7	83.8-86.8	10.9	34.2	.61	4.2	15.3	34.0	.72
OVRO 130-PLATTVIL	9	83.4-88.3	45.3	64.8	3.90	-28.3	15.7	53.5	3.04
OVRO 130-PRESIDIO	8	83.7-88.9	23.9	48.4	1.71	4.2	10.8	47.9	1.94
OVRO 130-PT REYES	6	83.7-88.9	15.8	38.4	.85	4.2	10.4	37.7	1.02
OVRO 130-PVERDES	2	83.9-85.2	.6	6.0	.01	—	—	—	—
OVRO 130-QUINCY	14	82.8-88.8	25.3	56.1	2.64	-10.6	8.4	52.7	2.53
OVRO 130-SANPAULA	1	83.7-83.7	15.5	—	—	—	—	—	—
OVRO 130-VNDNBERG	46	83.6-88.9	12.2	54.4	2.26	-7.6	5.3	53.2	2.21
OVRO 130-WESTFORD	29	81.5-88.8	16.5	45.5	3.69	-14.6	2.3	29.1	1.57
OVRO 130-WETTZELL	7	85.2-87.8	12.2	24.7	1.47	-18.8	7.9	16.9	.82
OVRO 130-YUMA	7	83.8-87.8	46.7	65.9	3.02	-54.0	24.0	46.4	1.80
OVR 7853-OVRO 130	1	87.8-87.8	26.9	—	—	—	—	—	—
PBLOSSOM-SANPAULA	1	88.1-88.1	26.9	—	—	—	—	—	—
PBLOSSOM-VNDNBERG	9	83.6-88.1	15.8	43.5	1.05	-3.5	11.4	43.2	1.19
PENTICTN-WESTFORD	3	90.6-90.6	8.3	21.1	.31	—	—	—	—
PENTICTN-YELLOWKN	2	84.7-85.7	6.4	17.0	.14	—	—	—	—
PIETOWN -WESTFORD	33	88.7-91.9	7.1	15.1	7.17	-14.5	3.0	11.4	4.23
PIETOWN -WETTZELL	7	91.1-91.9	9.2	13.7	2.74	—	—	—	—
PINFLATS-PVERDES	3	87.2-88.1	23.2	35.1	.88	—	—	—	—

Table 6.4 (continued)

Vertical Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Square	Rate mm/yr	Error mm/yr	WRMS mm	Chi Square
PINFLATS-VNDNBERG	20	83.8-90.1	27.6	67.6	3.17	-7.6	11.0	66.7	3.26
PINFLATS-YUMA	6	83.8-87.0	24.5	52.6	1.08	-26.4	35.1	49.2	1.18
PLATTVIL-VERNAL	1	86.2-86.2	23.5	—	—	—	—	—	—
PLATTVIL-WESTFORD	11	83.4-90.8	21.0	43.5	2.32	-11.2	7.9	39.3	2.10
PRESIDIO-PT REYES	3	83.7-85.8	86.4	77.8	2.47	—	—	—	—
PRESIDIO-VNDNBERG	20	83.7-90.1	19.0	54.7	2.28	.8	9.3	43.5	1.61
PRESIDIO-WESTFORD	6	89.8-91.5	29.4	46.7	1.98	—	—	—	—
PRESIDIO-YLOW7296	2	91.5-91.5	47.2	32.1	2.16	—	—	—	—
PRESIDIO-YUMA	1	87.1-87.1	32.1	—	—	—	—	—	—
PT REYES-VNDNBERG	18	83.7-90.0	11.5	40.8	1.34	-16.8	7.0	35.1	1.05
PT REYES-WESTFORD	6	89.9-91.5	17.1	36.8	1.08	—	—	—	—
PT REYES-YLOW7296	2	91.5-91.5	.2	2.1	.01	—	—	—	—
PT REYES-YUMA	1	87.8-87.8	2.1	—	—	—	—	—	—
PVERDES -VNDNBERG	9	83.9-90.1	19.1	45.8	1.39	-14.7	11.2	41.0	1.27
QUINCY -VNDNBERG	13	84.3-89.8	12.9	36.3	1.52	9.7	9.6	34.7	1.51
QUINCY -WESTFORD	2	89.8-89.8	31.2	30.6	1.04	—	—	—	—
RICHMOND-TROMSONO	1	89.6-89.6	30.6	—	—	—	—	—	—
RICHMOND-WESTFORD	529	84.0-92.0	1.4	23.8	1.75	-1.0	.5	23.7	1.74
RICHMOND-WETTZELL	504	84.1-92.0	1.8	29.9	1.77	7.7	.6	26.1	1.36
RICHMOND-YLOW7296	1	91.6-91.6	1.3	—	—	—	—	—	—
ROBLED32-WESTFORD	1	83.3-83.3	1.3	—	—	—	—	—	—
SANPAULA-VNDNBERG	10	83.7-90.1	16.5	46.8	1.11	9.1	10.5	44.7	1.15
SANTIA12-SESHAN25	2	92.0-92.0	24.8	15.3	2.62	—	—	—	—
SANTIA12-WESTFORD	3	91.9-92.0	14.0	23.3	.72	—	—	—	—
SANTIA12-WETTZELL	3	91.9-92.0	13.2	19.6	.91	—	—	—	—
SEATTLE1-WESTFORD	3	86.7-90.6	263.2	121.6	9.37	—	—	—	—
SESHAN25-WESTFORD	2	92.0-92.0	3.6	8.8	.16	—	—	—	—
SESHAN25-WETTZELL	6	90.3-92.0	38.6	45.8	3.55	—	—	—	—
SEST -WESTFORD	3	90.3-90.4	2.4	9.4	.13	—	—	—	—
SINTOTU -USUDA64	1	90.6-90.6	6.6	—	—	—	—	—	—
SNDPOINT-VNDNBERG	3	84.5-86.6	104.4	82.9	3.17	—	—	—	—
SNDPOINT-WESTFORD	8	88.5-90.5	55.9	69.4	4.55	—	—	—	—
SOURDOGH-VNDNBERG	8	84.6-86.6	23.7	52.2	1.44	27.6	29.0	48.7	1.46
SOURDOGH-WESTFORD	6	88.6-89.6	33.7	47.8	2.48	—	—	—	—
SOURDOGH-WHTHORSE	3	84.6-86.6	12.3	28.8	.36	—	—	—	—
SOURDOGH-YAKATAGA	4	84.6-86.6	21.5	41.7	.80	-50.8	4.3	5.0	.02
TROMSONO-WESTFORD	1	89.6-89.6	24.1	—	—	—	—	—	—
TROMSONO-WETTZELL	4	89.6-89.6	4.0	12.3	.31	—	—	—	—
TRYSILNO-WESTFORD	6	91.9-92.0	4.0	13.4	.43	—	—	—	—
TRYSILNO-WETTZELL	5	91.9-92.0	5.9	14.6	.65	—	—	—	—

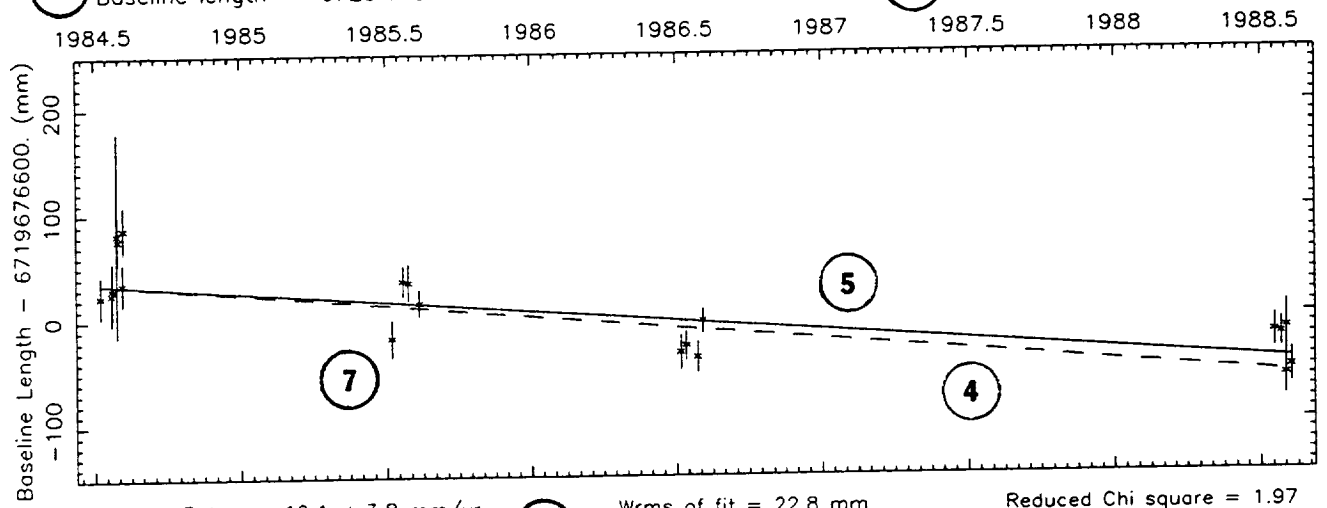
Table 6.4 (continued)

Vertical Statistical Summary									
Baseline Name	Sessions		Mean Statistics			Rate Statistics			
	Num Obs	Span yr to yr	Error mm	WRMS mm	Chi Square	Rate mm/yr	Error mm/yr	WRMS mm	Chi Square
VERNAL -VNDNBERG	1	88.8-88.8	7.3	—	—	—	—	—	—
VERNAL -WESTFORD	4	89.3-90.8	3.7	14.4	.20	—	—	—	—
VERNAL -YUMA	1	88.8-88.8	8.3	—	—	—	—	—	—
VICTORIA-WESTFORD	3	90.6-90.6	8.2	20.8	.31	—	—	—	—
VNDNBERG-WESTFORD	12	89.8-91.6	10.7	29.1	1.48	—	—	—	—
VNDNBERG-WHTHORSE	3	84.6-86.6	51.4	55.0	1.75	—	—	—	—
VNDNBERG-YAKATAGA	4	84.6-86.6	55.4	66.6	2.08	-48.2	52.6	55.9	2.19
VNDNBERG-YUMA	19	83.8-88.8	27.9	62.7	3.57	-16.0	14.1	60.5	3.51
WESTFORD-WETTZELL	659	83.9-92.0	1.3	25.0	1.83	3.4	.5	24.2	1.71
WESTFORD-WHTHORSE	4	88.6-89.6	138.5	80.8	8.82	—	—	—	—
WESTFORD-YAKATAGA	7	88.6-90.4	22.2	43.5	1.57	—	—	—	—
WESTFORD-YLOW7296	8	91.5-91.6	11.0	20.4	2.03	—	—	—	—

2 Vector baseline plots for GILCREEK-KWAJAL26

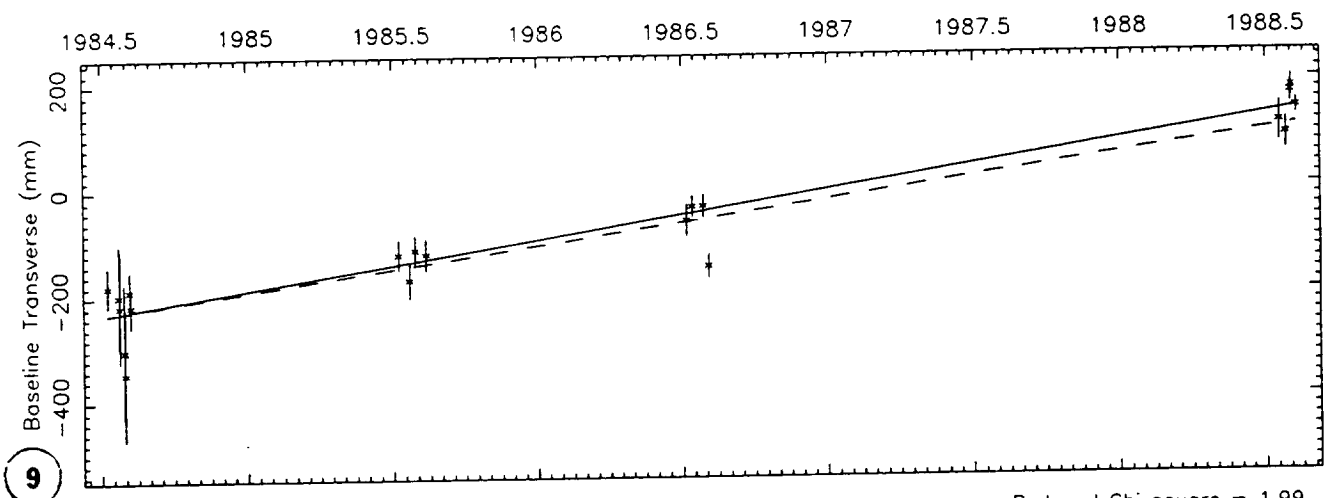
1 Baseline length = 6720 kilometers

3 Number of sessions = 20



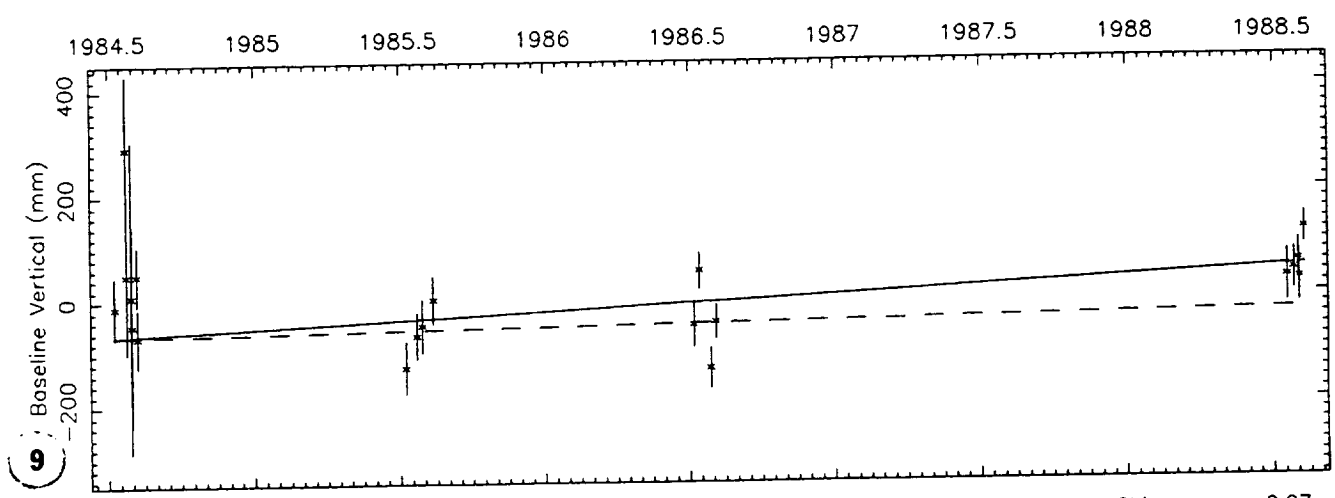
8 Observed Rate = -19.1 ± 3.8 mm/yr
 NUVEL model rate = -22.4 mm/yr

6 Wrms of fit = 22.8 mm
 Reduced Chi square = 1.97
 Weighted mean length = 6719676597.2 mm



9 Observed Rate = 91.6 ± 6.3 mm/yr
 NUVEL model rate = 83.9 mm/yr

Wrms of fit = 38.5 mm
 Reduced Chi square = 1.99



9 Observed Rate = 28.6 ± 10.6 mm/yr
 NUVEL model rate = 8.9 mm/yr

Wrms of fit = 64.3 mm
 Reduced Chi square = 2.07
10 7.0



7.0 Baseline Evolution from GLB868

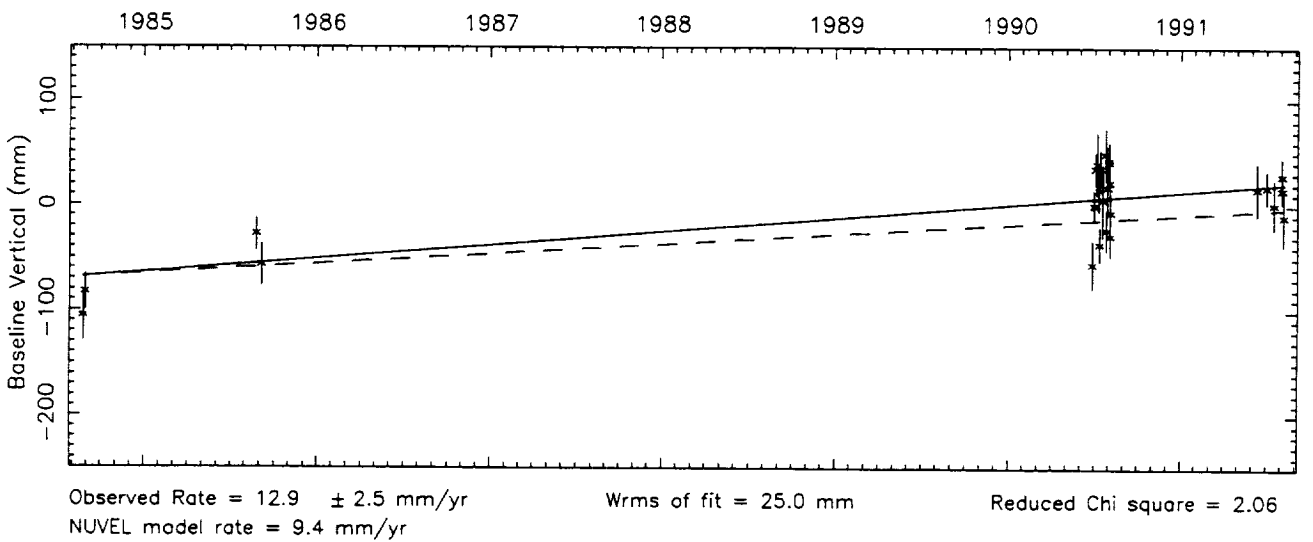
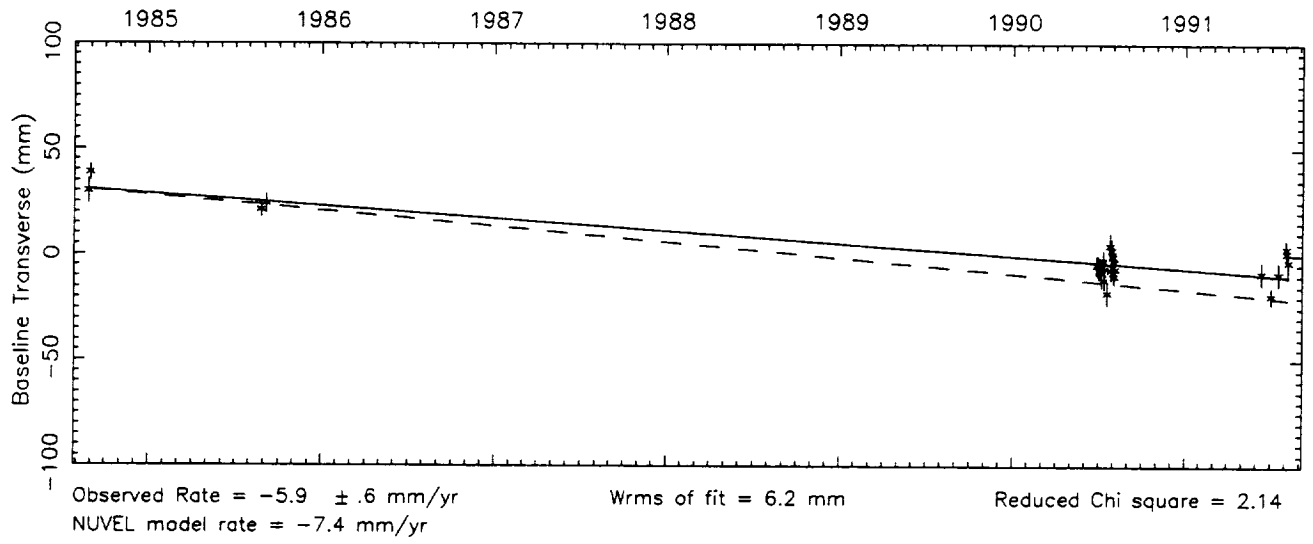
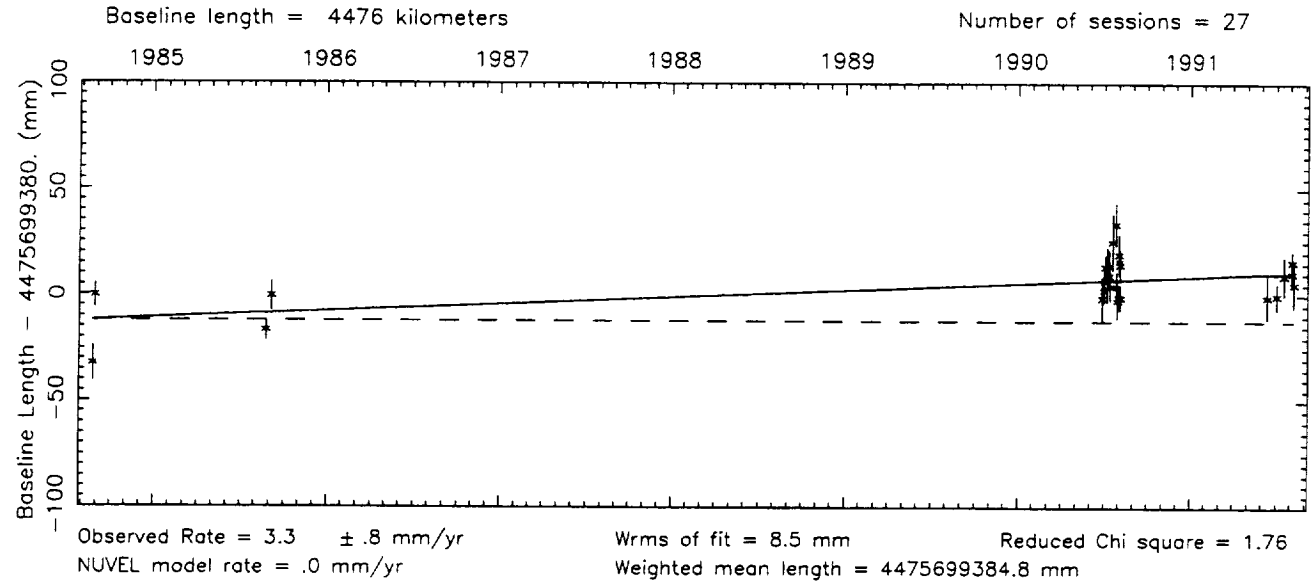
Plots 7.2 through 7.201 present the observed variation of the baseline components over the period of the observations for those baselines with at least five observations spanning a minimum of two years. The transverse and vertical components are shown as offsets from their mean values. See the text for the definition and interpretation of the transverse and vertical components. An example plot appears on the facing page. The notes below are provided to clarify the interpretation of the plots.

- 1 -- Baseline length in kilometers
- 2 -- Baseline name
- 3 -- Number of sessions including observations on this baseline
- 4 -- Dashed line indicates slope predicted by NUVEL plate motion model assuming sites occupy plates indicated in Table 1.2.
- 5 -- Line of best fit by least squares
- 6 -- Baseline component statistics
- 7 -- Observed value in millimeters with $1\text{-}\sigma$ standard statistical error bar
- 8 -- Baseline length with arbitrary offset subtracted, standard scales span 200, 400, 800 or 1200 mm
- 9 -- Baseline component with mean subtracted (transverse and vertical), standard scales span 200, 400, 800 or 1200 mm
- 10 -- Plot number (same as page number)

Tables 7.202 through 7.557 present the length, transverse, and vertical baseline evolution information with their residual from the mean value and respective one-sigma standard statistical errors for those baselines which were observed in fewer than five sessions or over a time span of less than two years. Unlike tables 6.3 and 6.4 the transverse and vertical components are included so that the user may make comparisons between sessions.

The machine-readable version contains all the data plotted and tabulated in section 7.

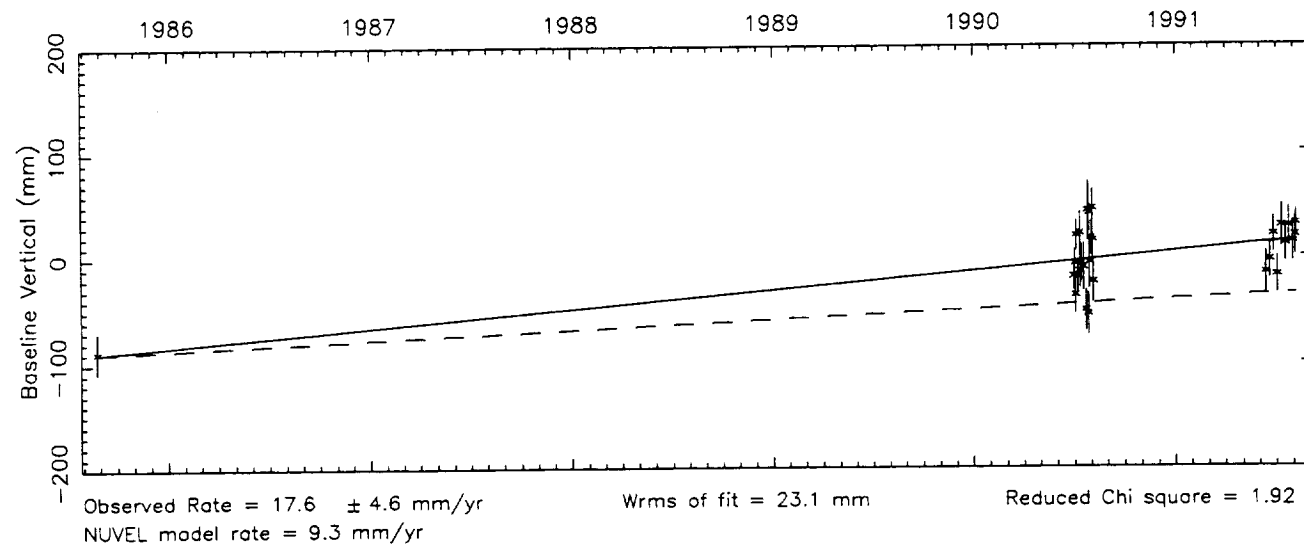
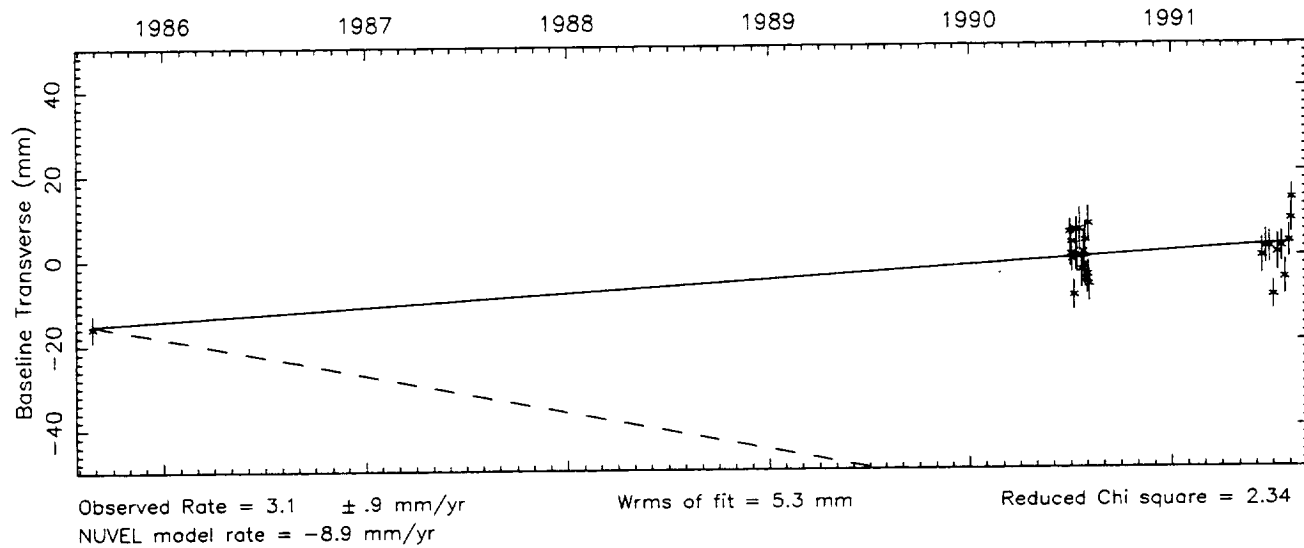
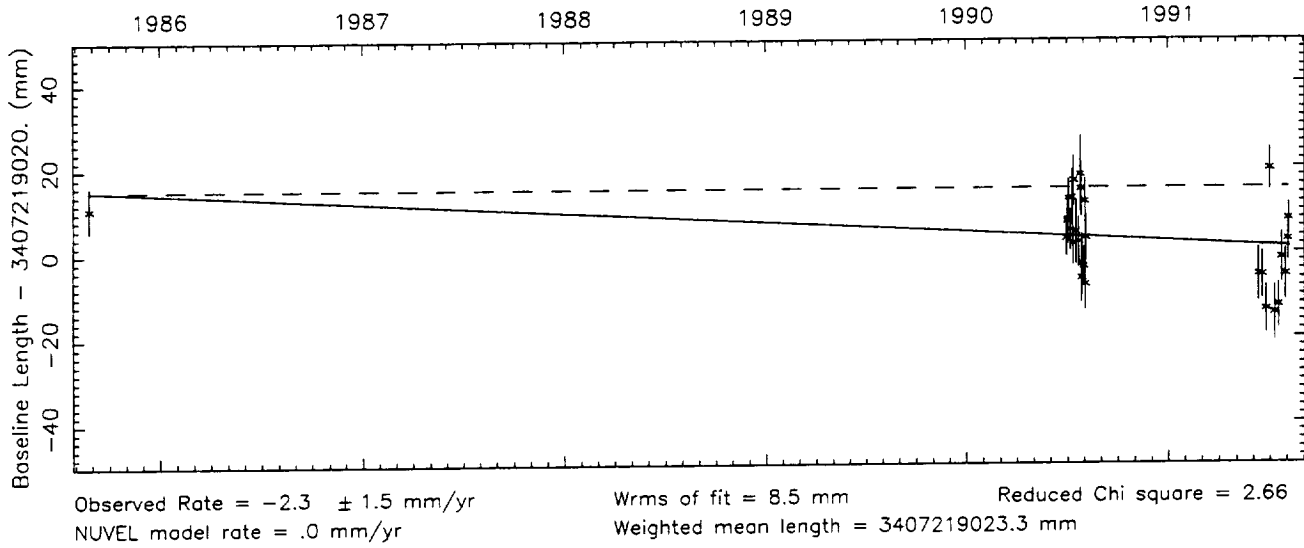
Vector baseline plots for ALGOPARK-GILCREEK



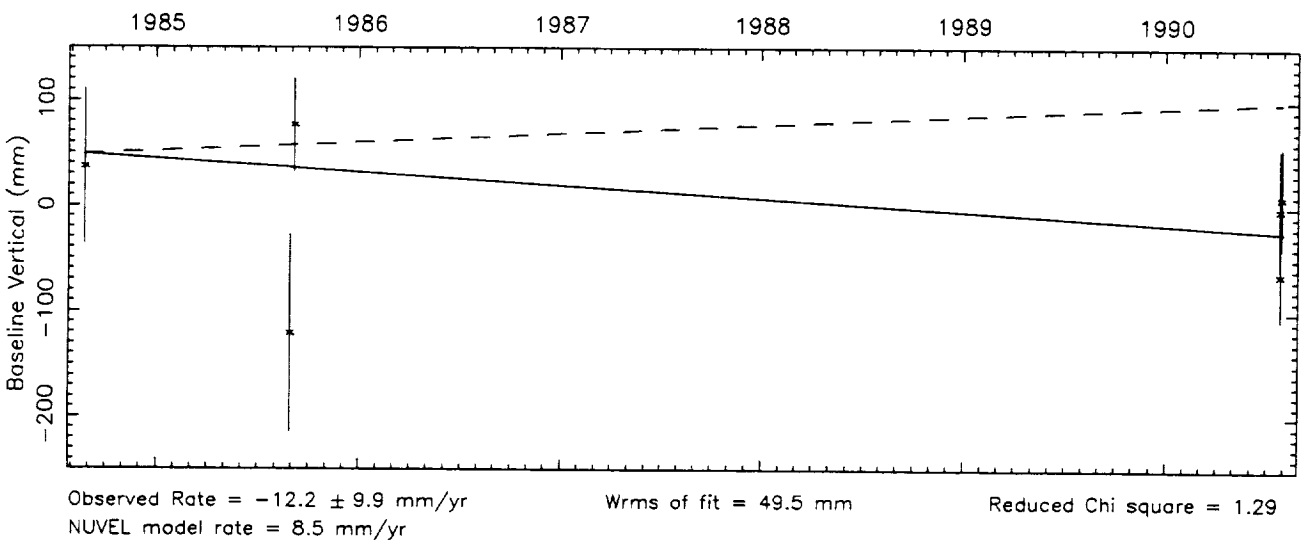
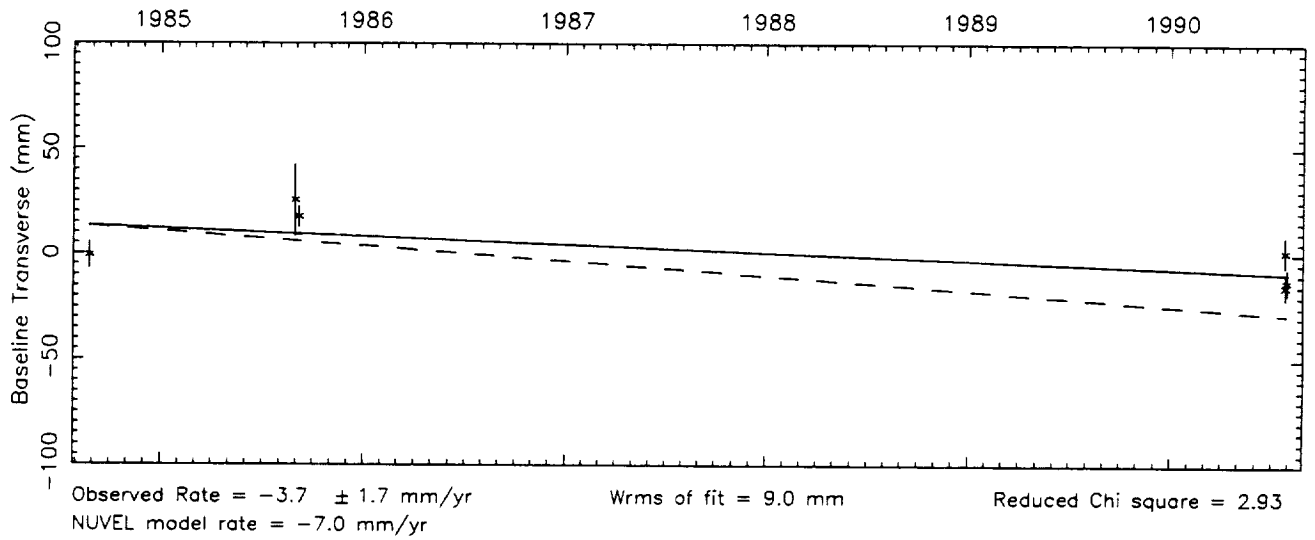
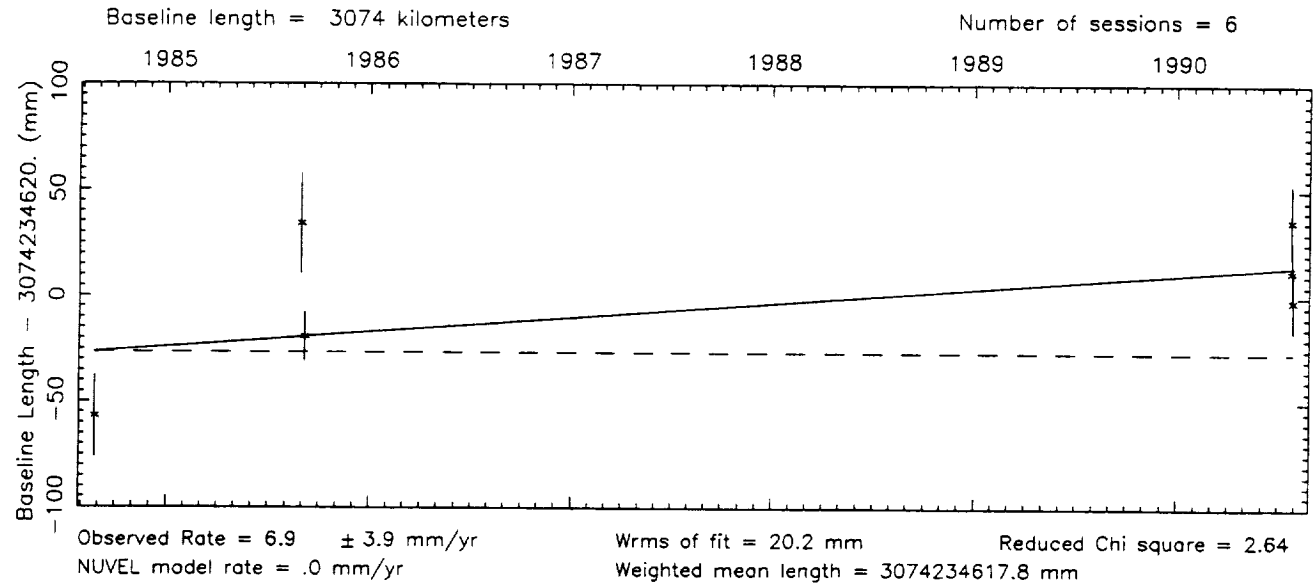
Vector baseline plots for ALGOPARK-MOJAVE12

Baseline length = 3407 kilometers

Number of sessions = 29



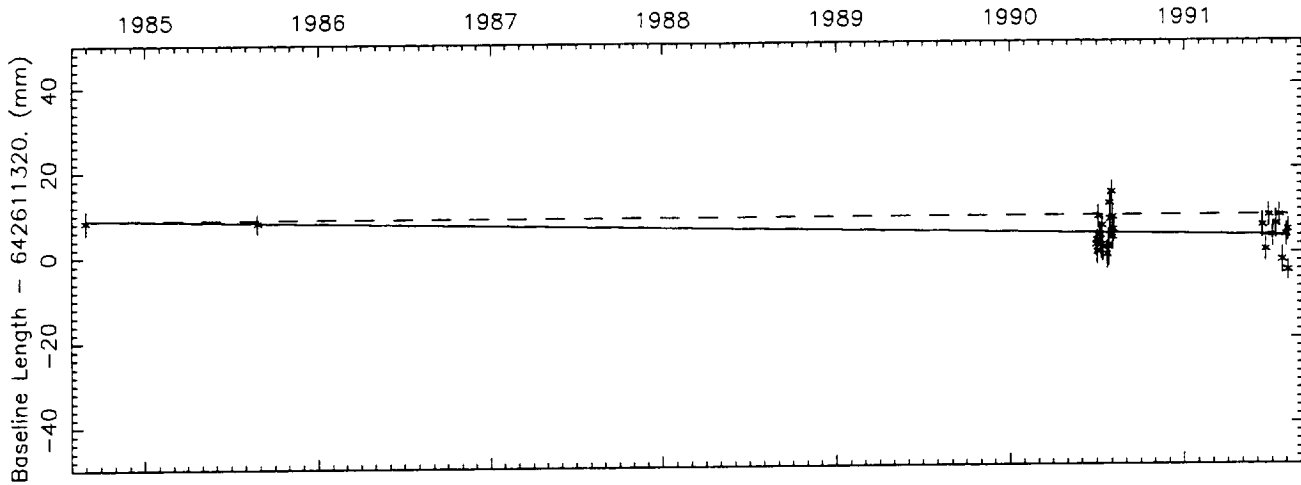
Vector baseline plots for ALGOPARK-PENTICTN



Vector baseline plots for ALGOPARK-WESTFORD

Baseline length = 643 kilometers

Number of sessions = 29

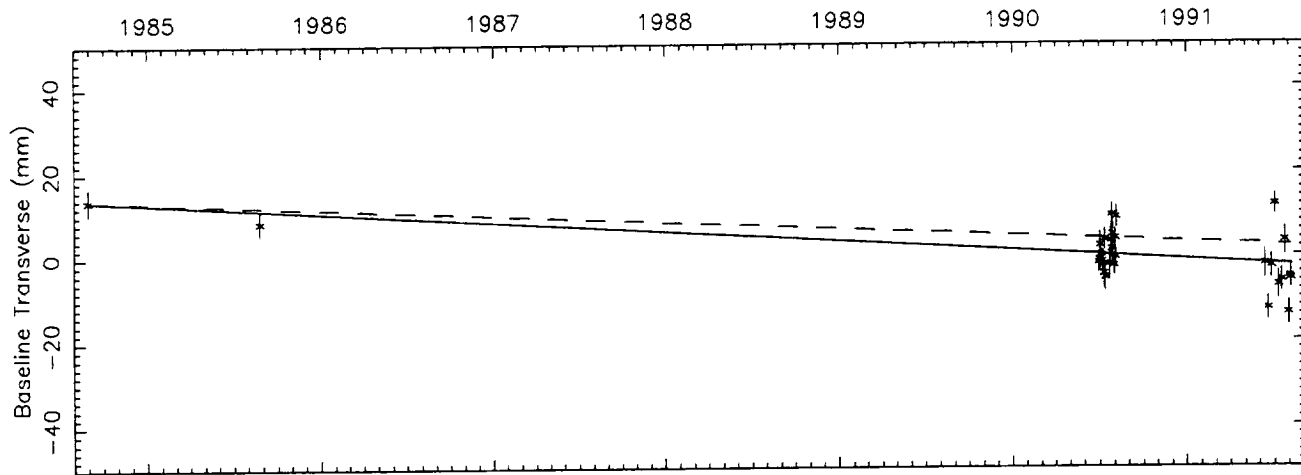


Observed Rate = -0.7 ± 0.5 mm/yr
 NUVEL model rate = 0.0 mm/yr

Wrms of fit = 4.0 mm

Reduced Chi square = 2.17

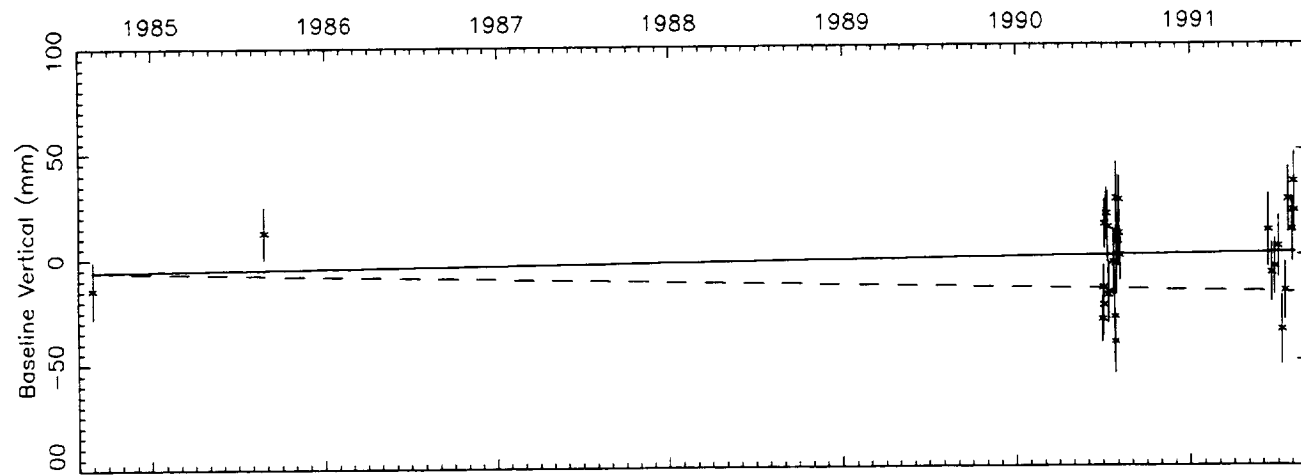
Weighted mean length = 642611324.6 mm



Observed Rate = -2.3 ± 0.7 mm/yr
 NUVEL model rate = -1.6 mm/yr

Wrms of fit = 5.4 mm

Reduced Chi square = 4.38



Observed Rate = 1.1 ± 2.4 mm/yr
 NUVEL model rate = -1.7 mm/yr

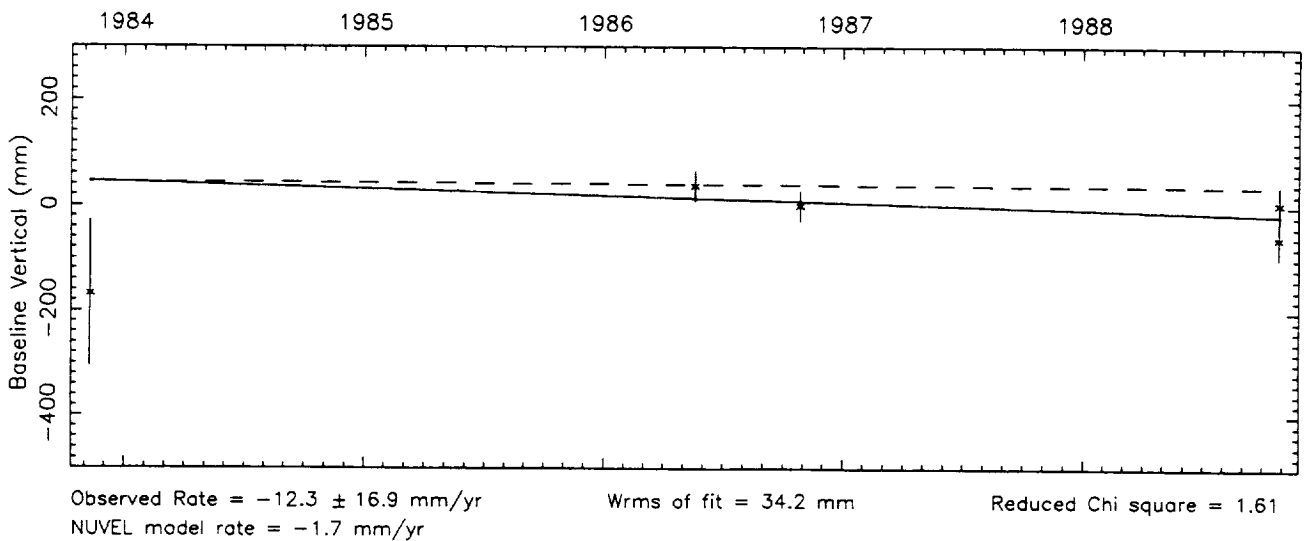
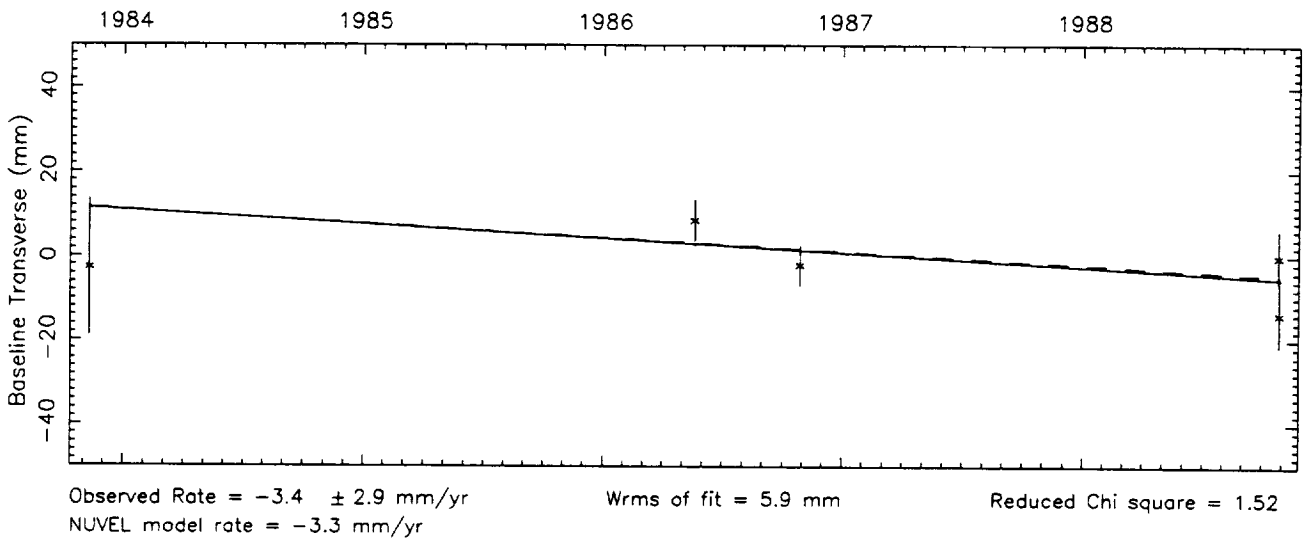
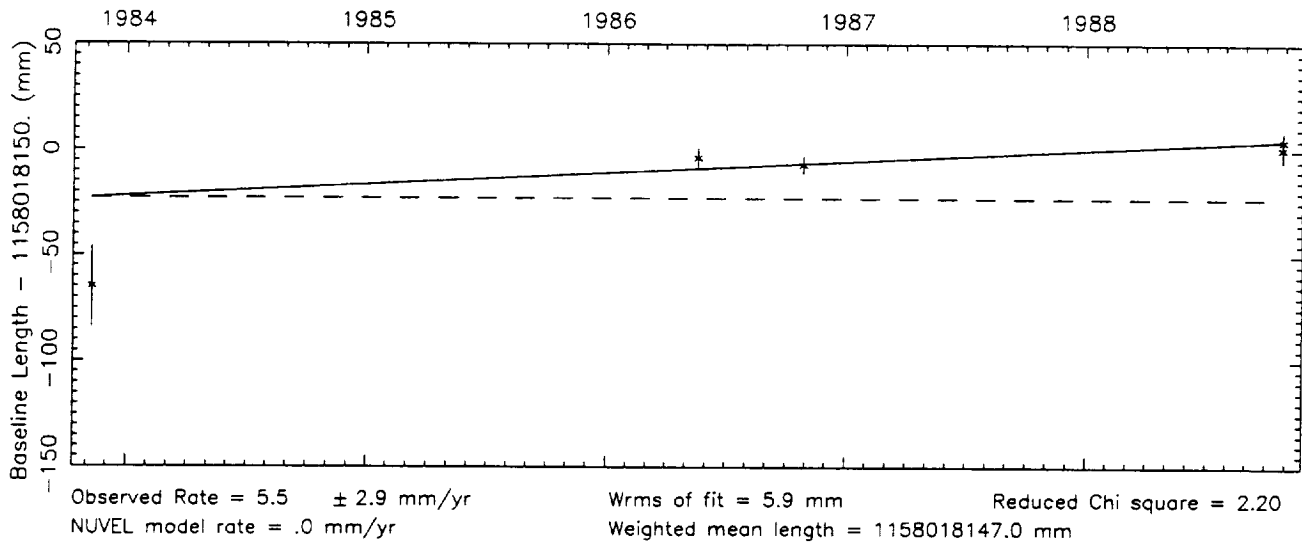
Wrms of fit = 19.8 mm

Reduced Chi square = 2.31

Vector baseline plots for BLKBUTTE-HRAS 085

Baseline length = 1158 kilometers

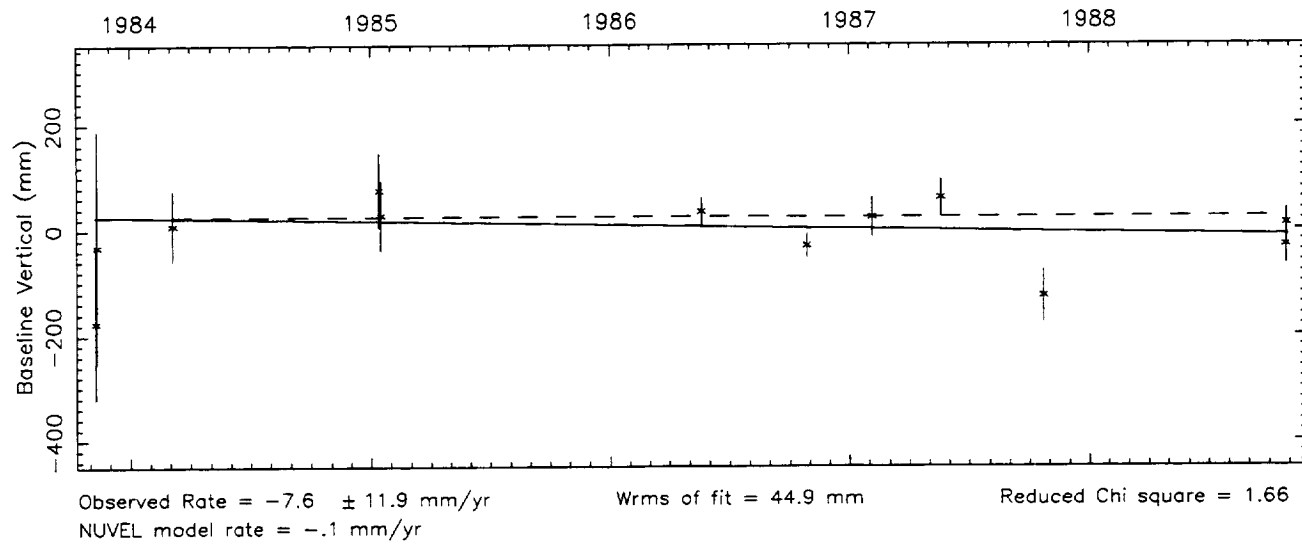
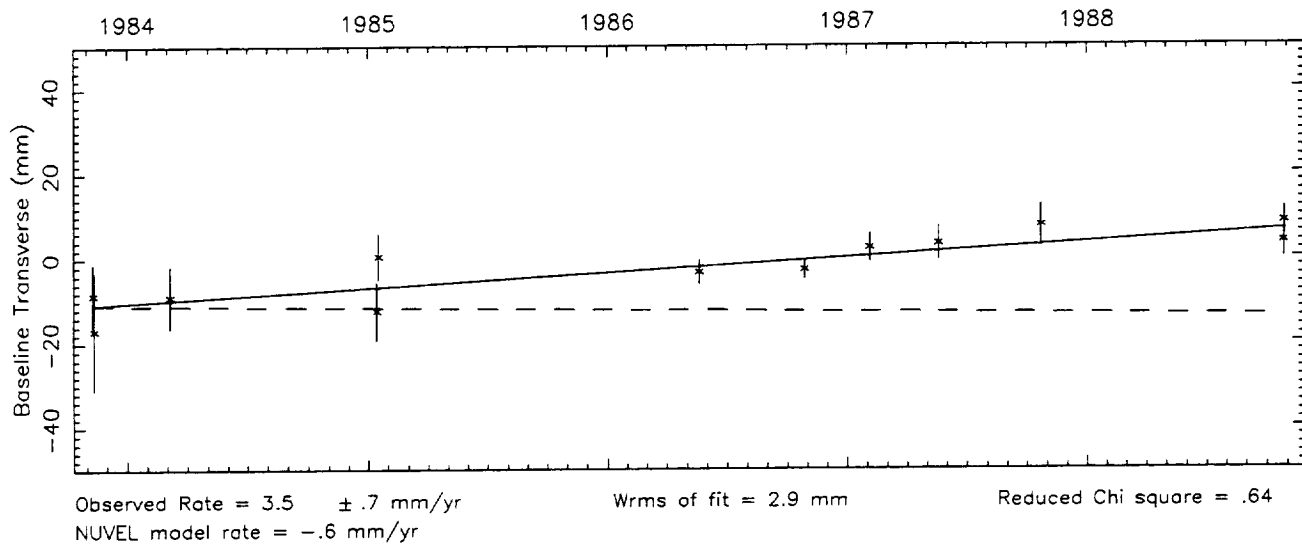
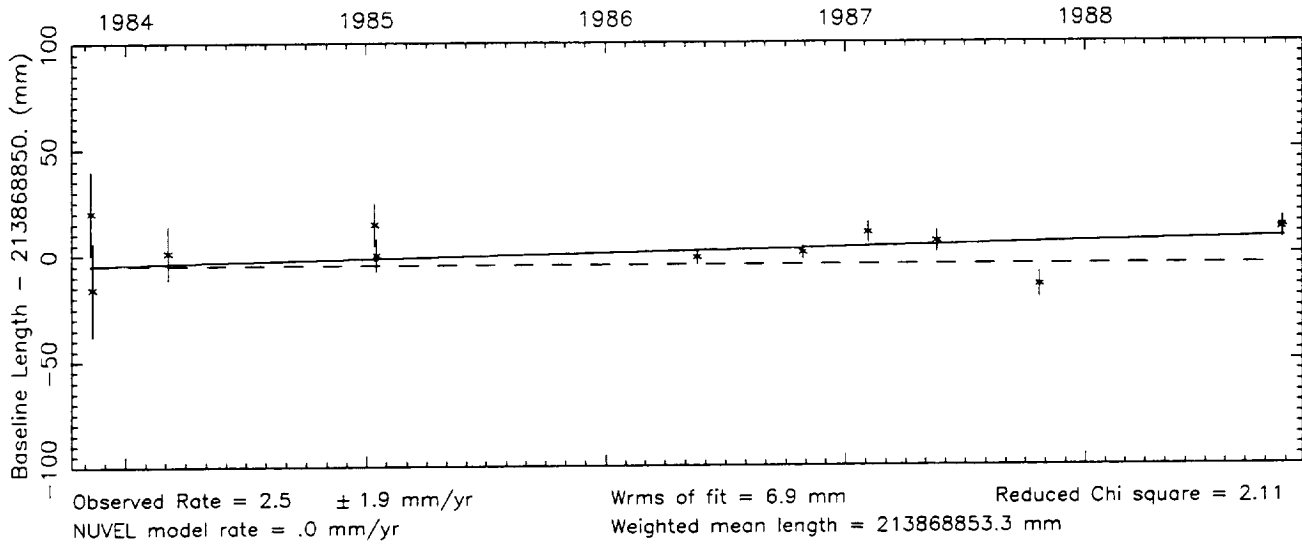
Number of sessions = 5



Vector baseline plots for BLKBUTTE-MOJAVE12

Baseline length = 214 kilometers

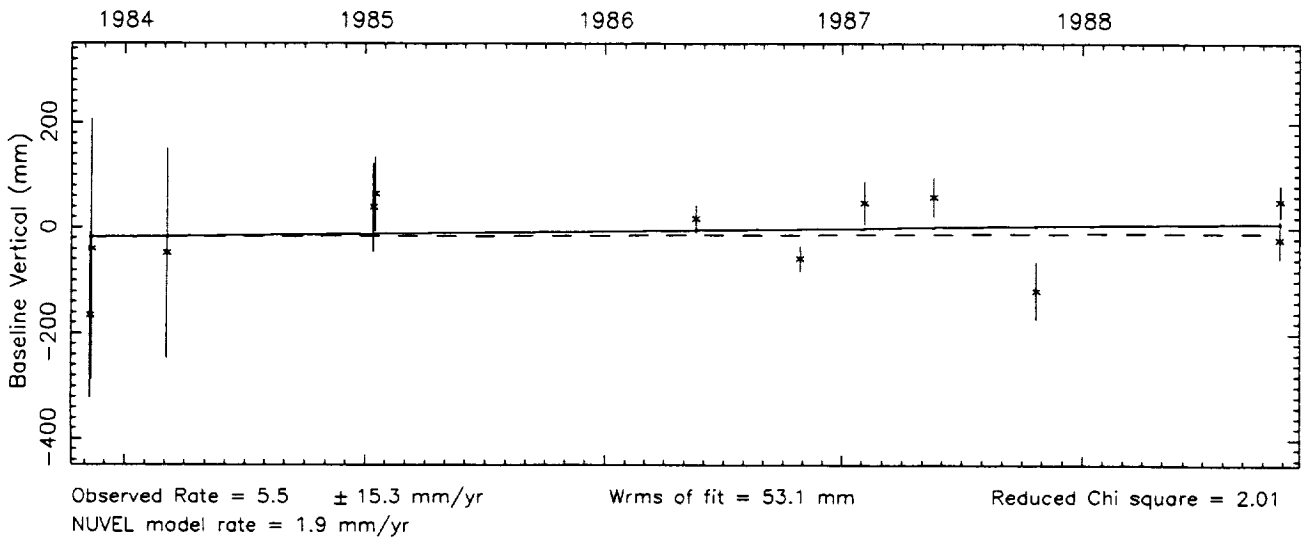
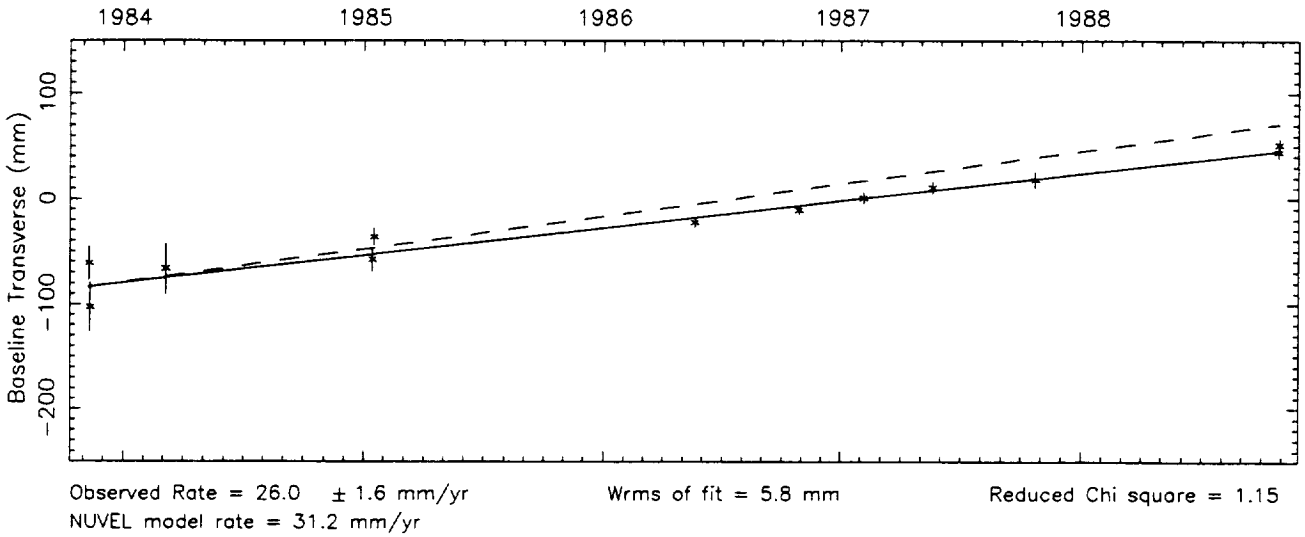
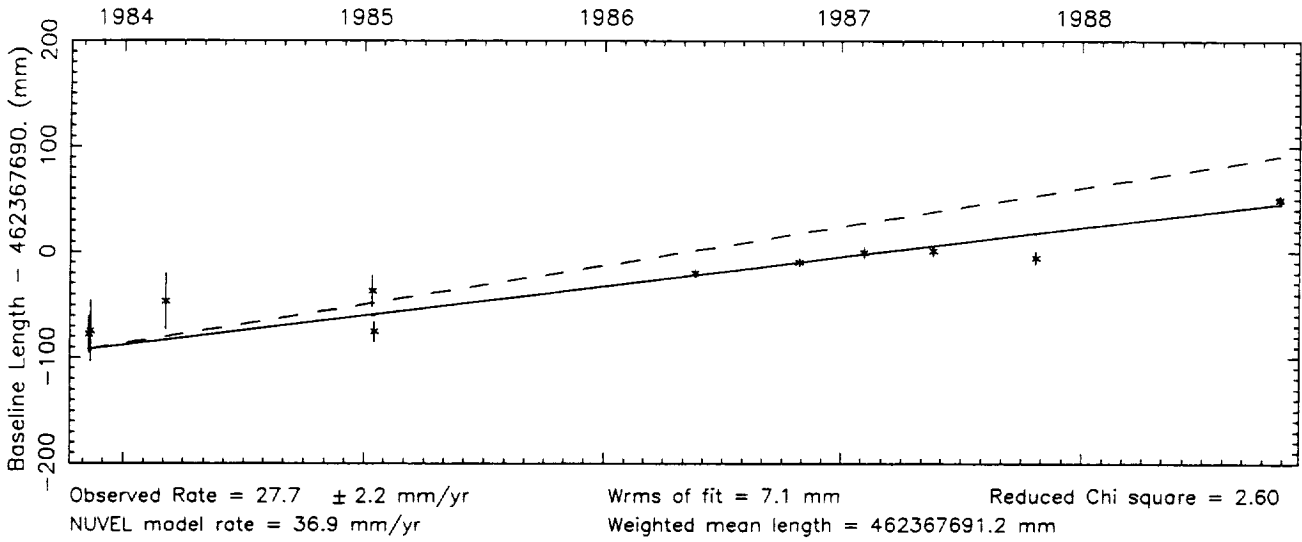
Number of sessions = 12



Vector baseline plots for BLKBUTTE-VNDNBERG

Baseline length = 462 kilometers

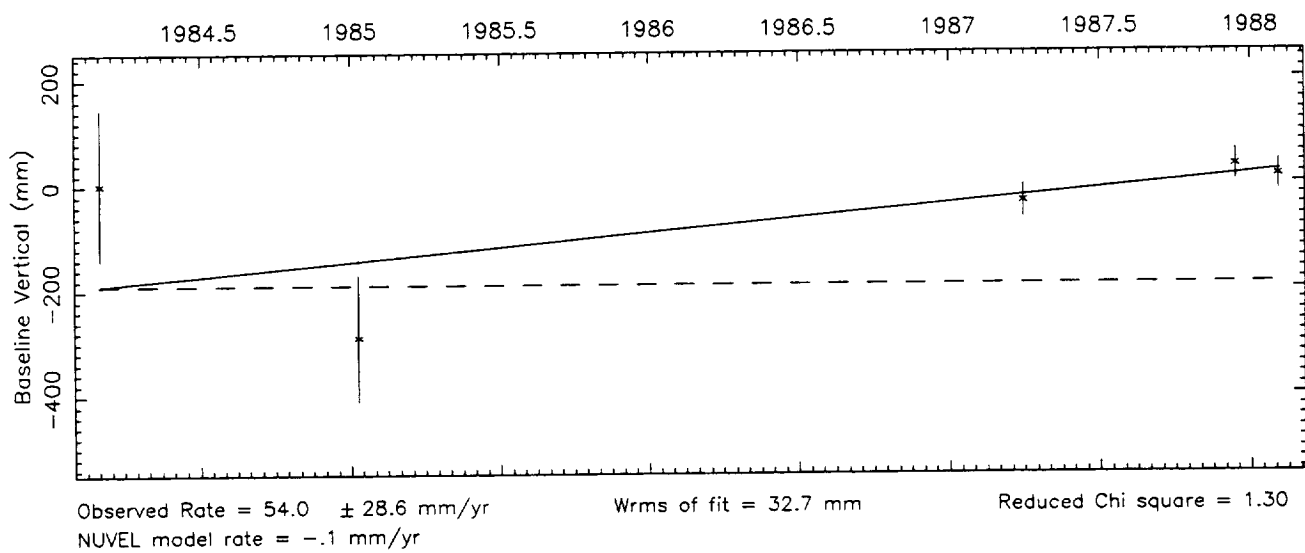
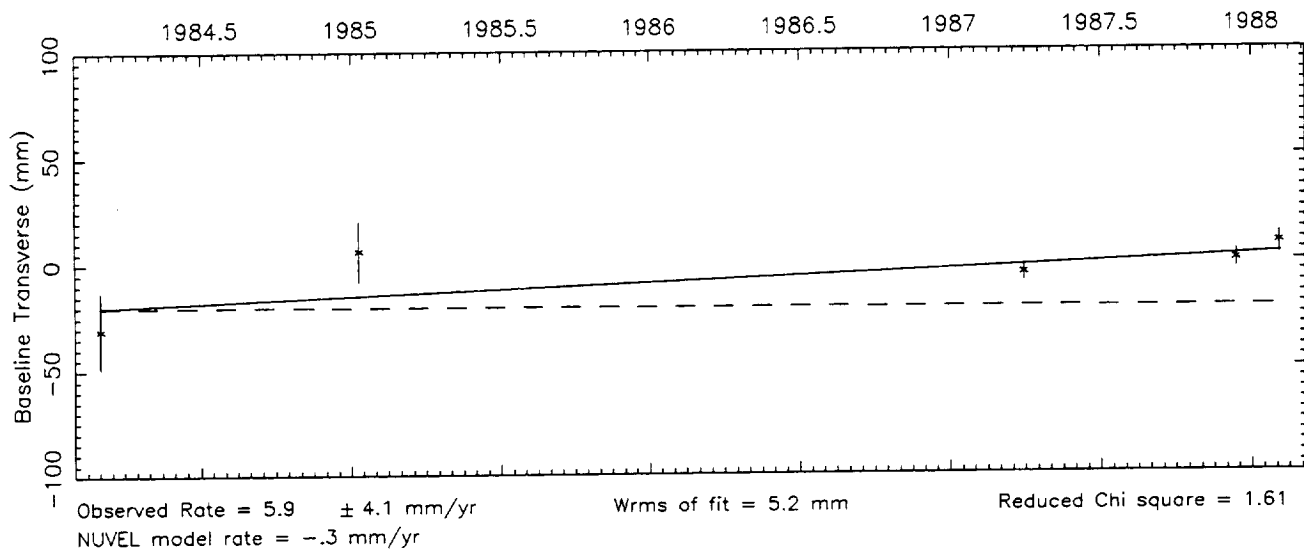
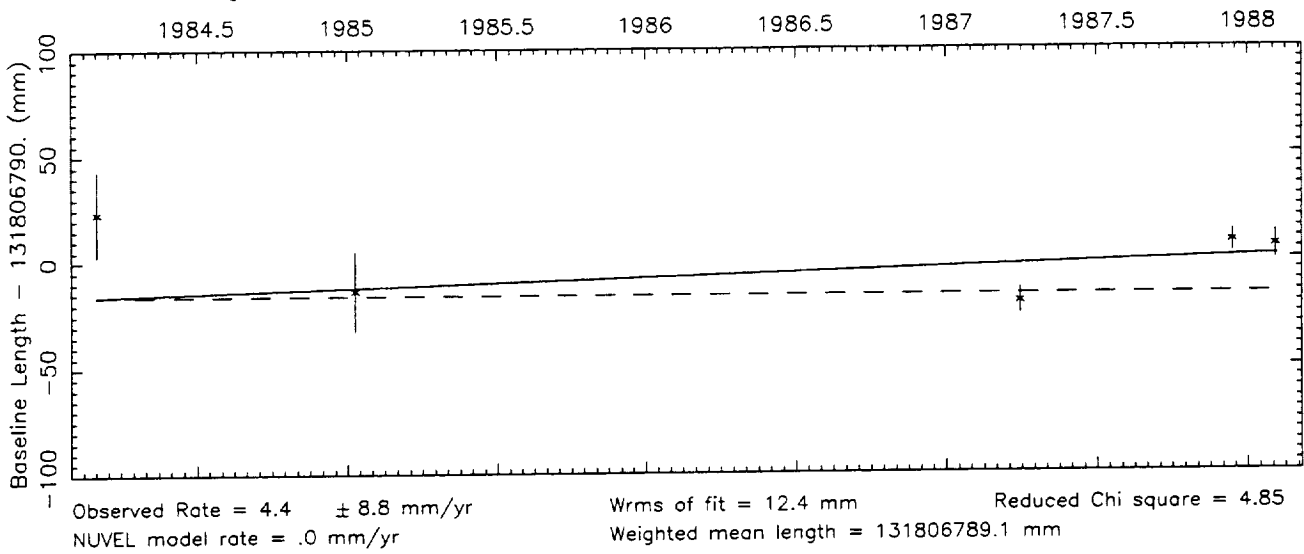
Number of sessions = 12



Vector baseline plots for DEADMANL-MOJAVE12

Baseline length = 132 kilometers

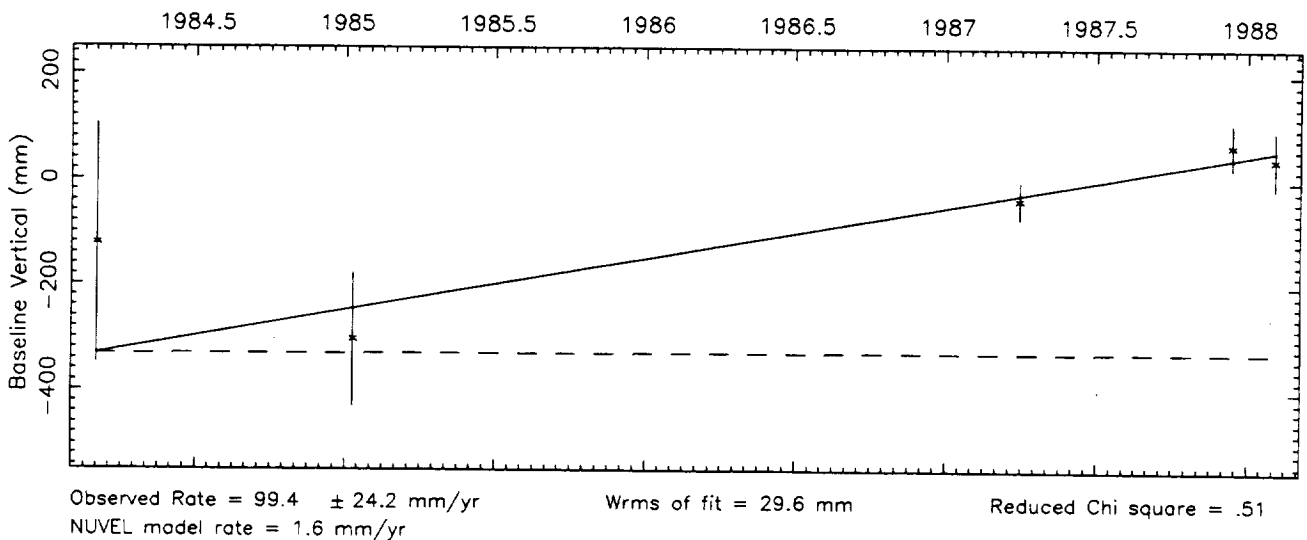
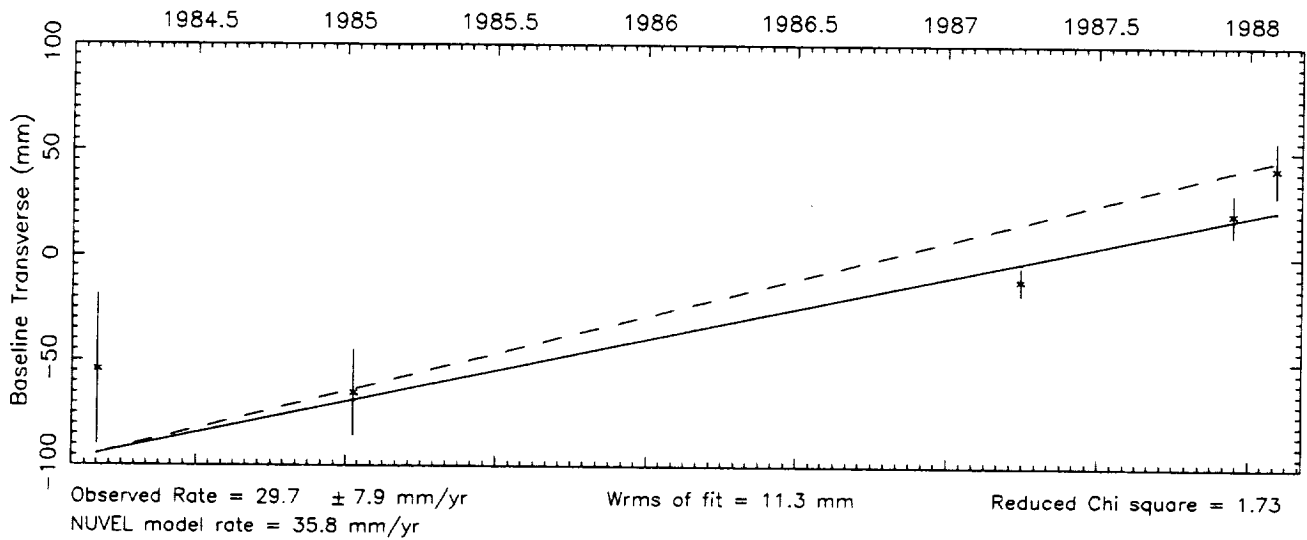
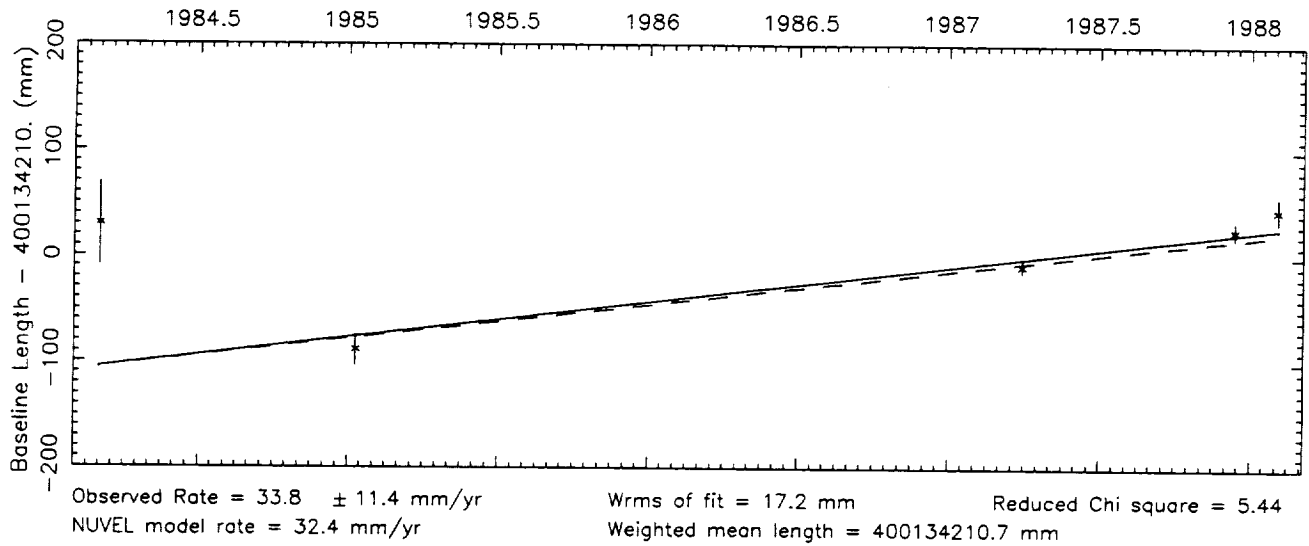
Number of sessions = 5



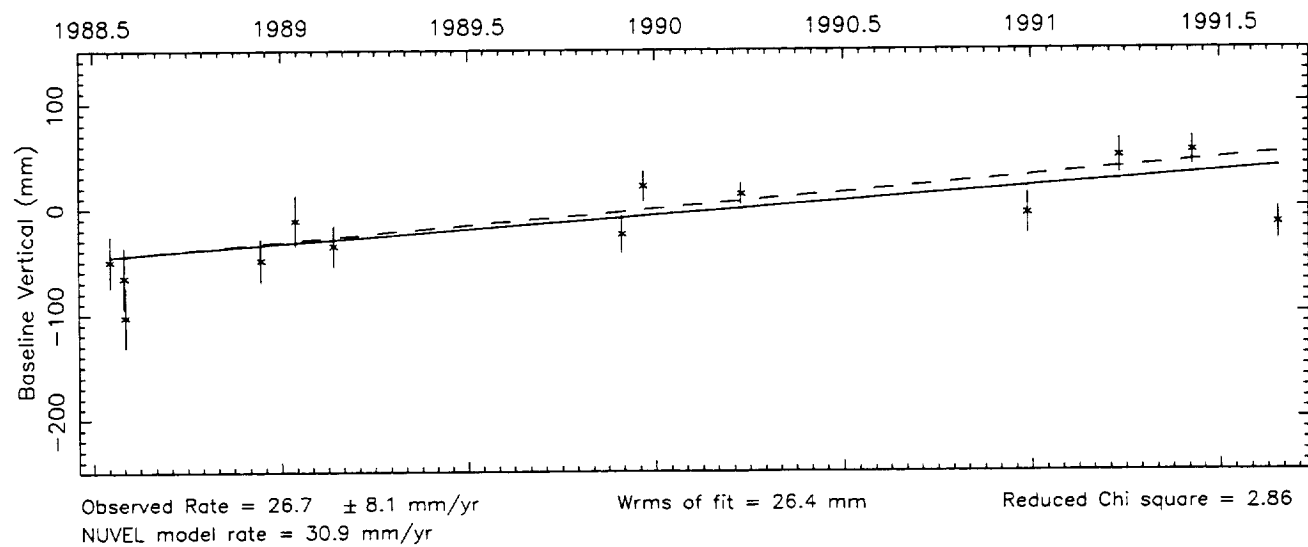
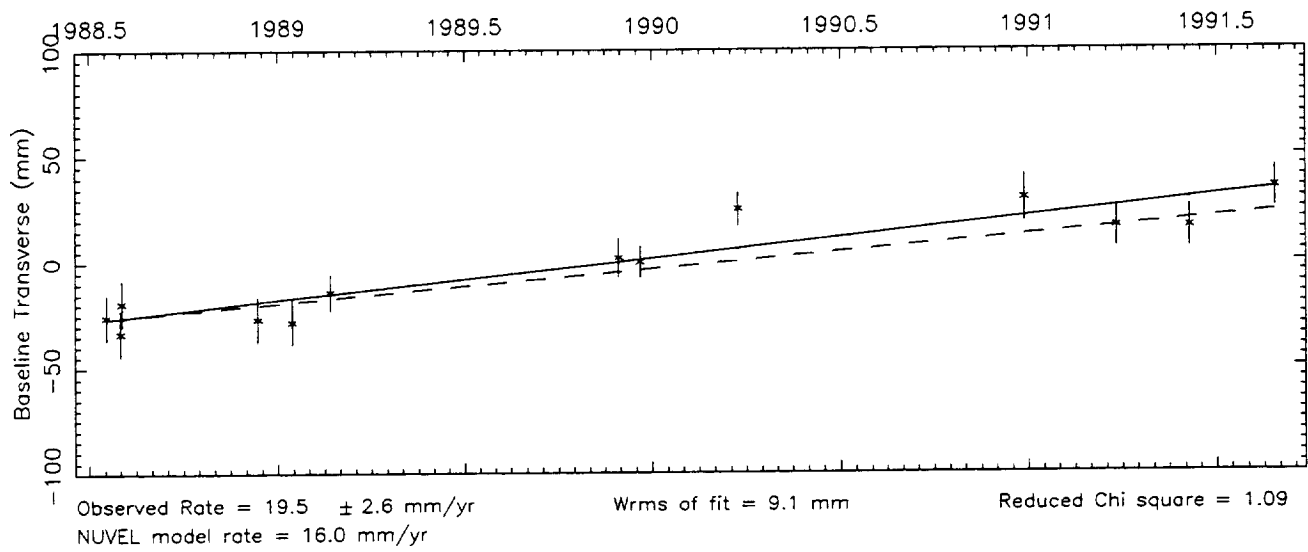
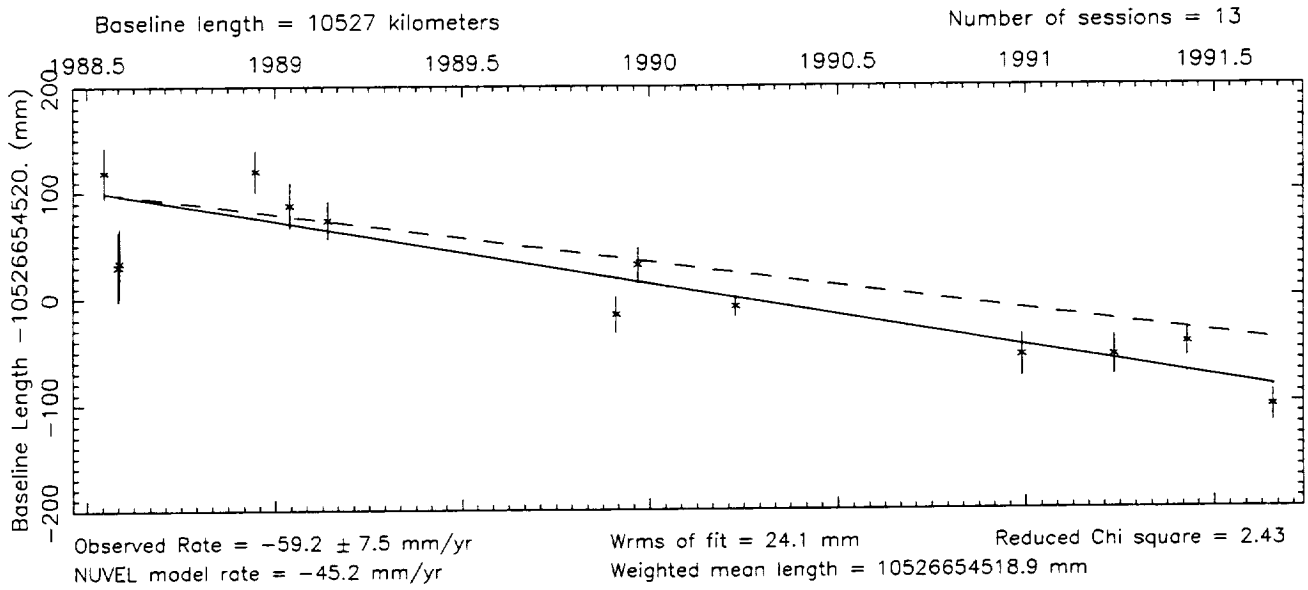
Vector baseline plots for DEADMANL-VNDNBERG

Baseline length = 400 kilometers

Number of sessions = 5



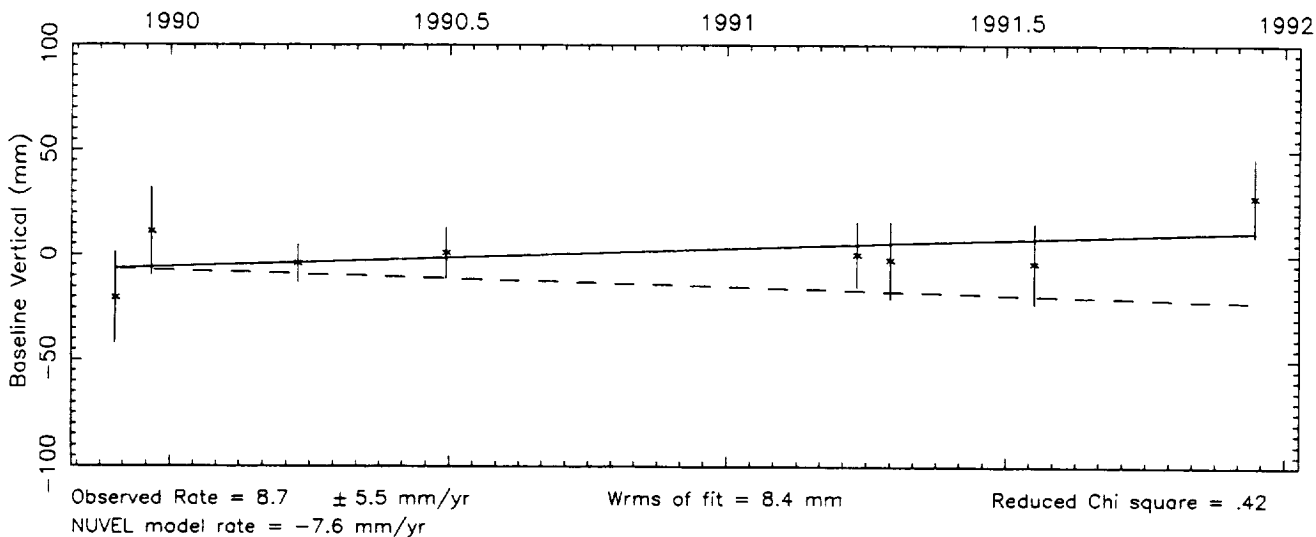
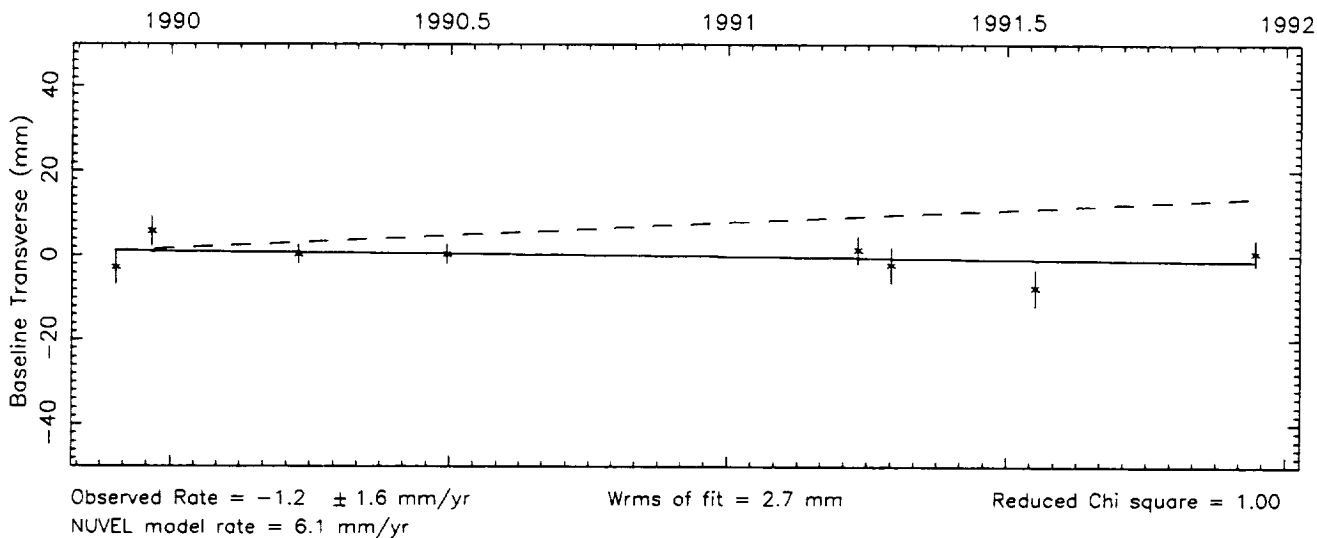
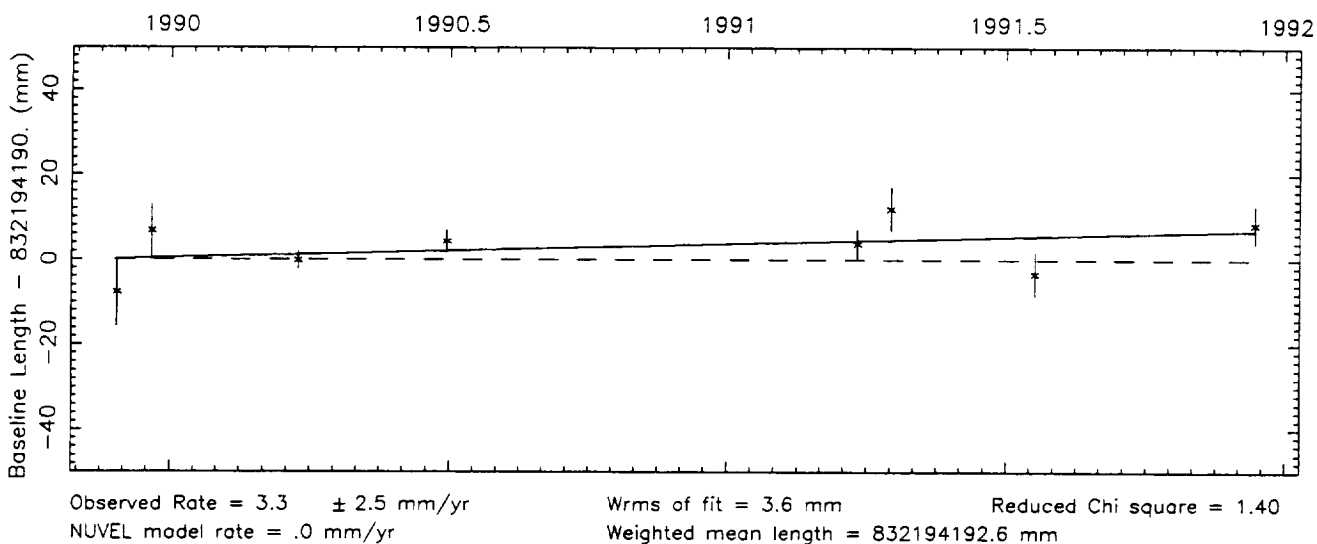
Vector baseline plots for DSS45 -GILCREEK



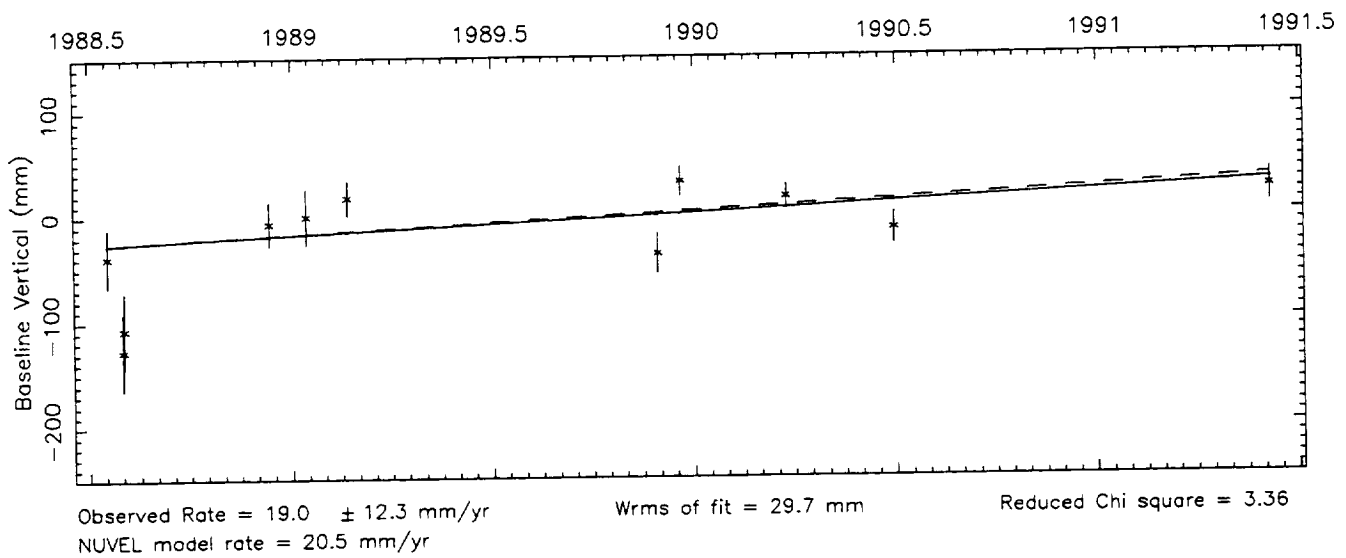
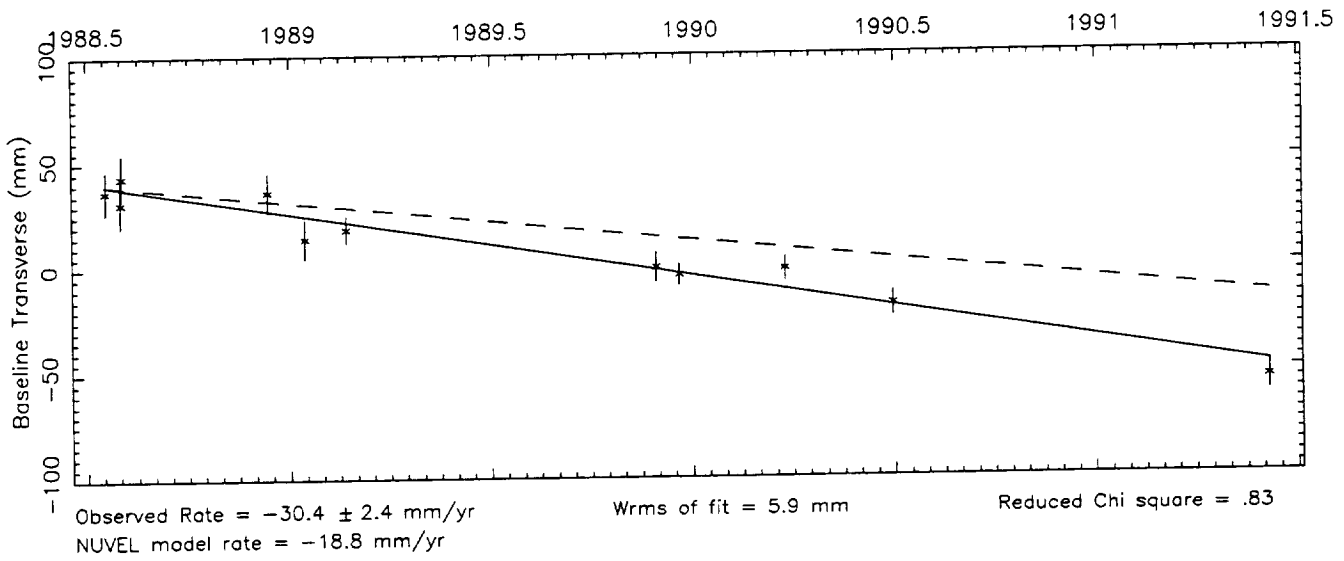
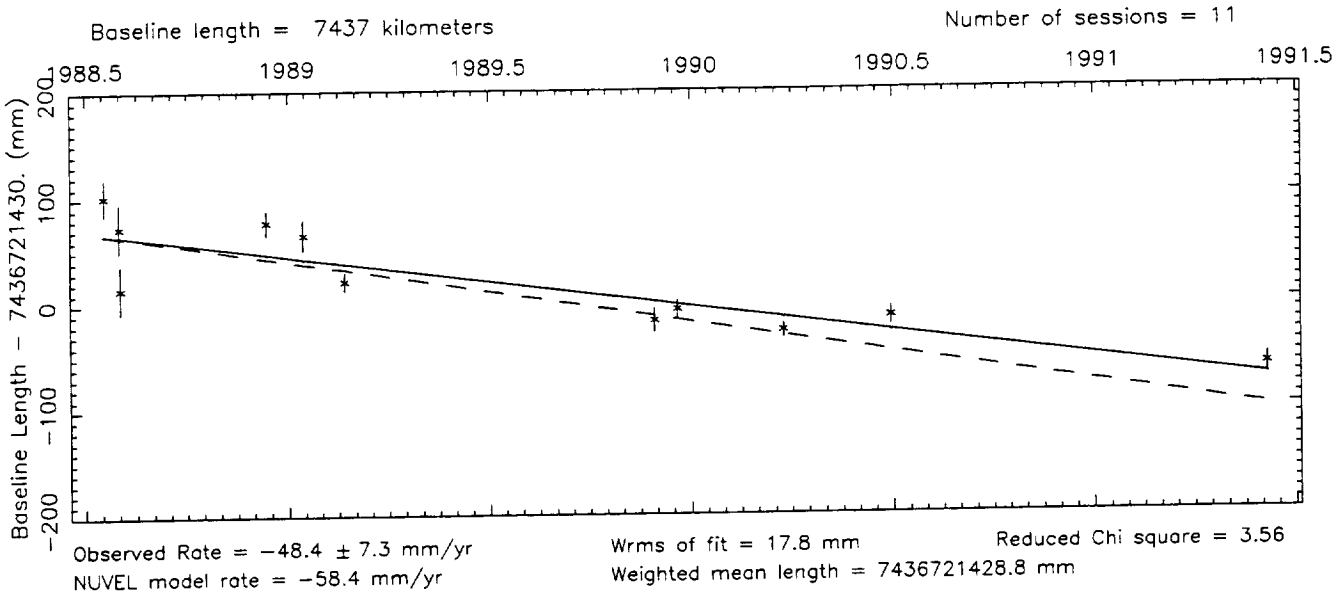
Vector baseline plots for DSS45 -HOBART26

Baseline length = 832 kilometers

Number of sessions = 8



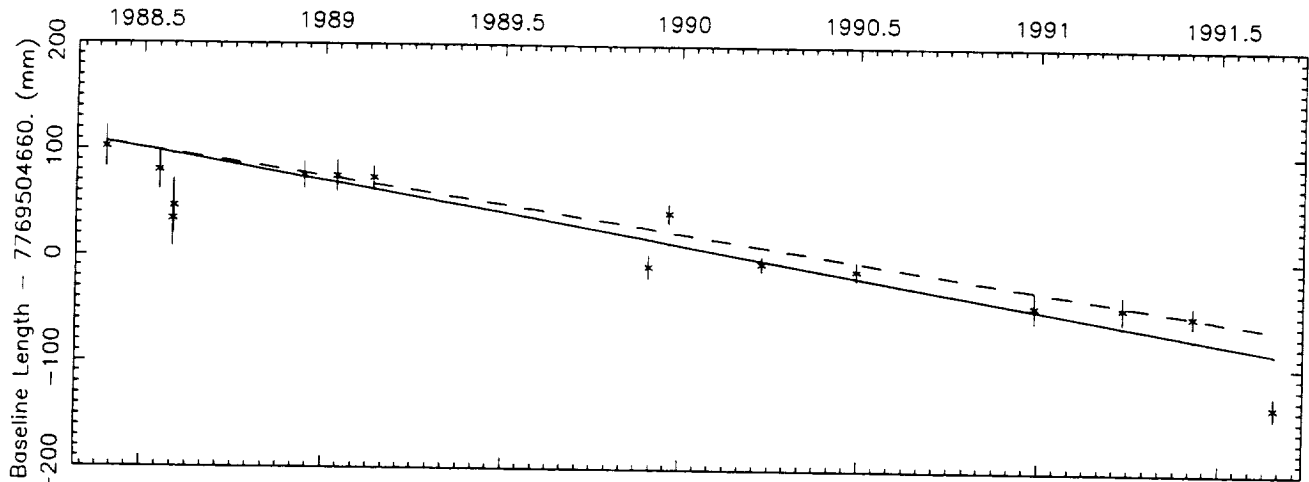
Vector baseline plots for DSS45 -KASHIMA



Vector baseline plots for DSS45 -KAUAI

Baseline length = 7770 kilometers

Number of sessions = 15

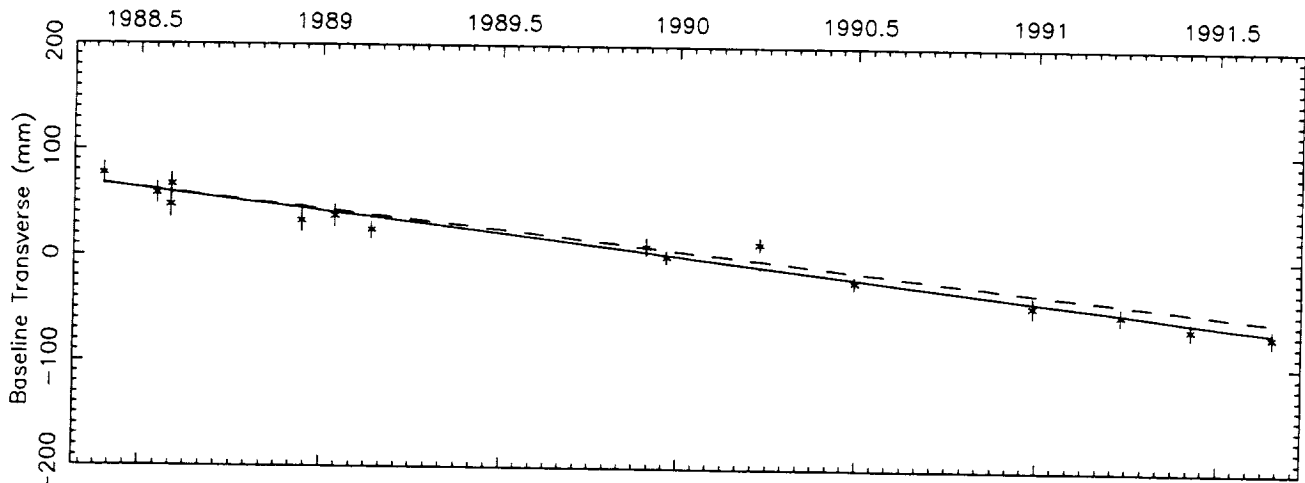


Observed Rate = -59.2 ± 6.8 mm/yr
 NUVEL model rate = -52.3 mm/yr

Wrms of fit = 22.5 mm

Reduced Chi square = 4.34

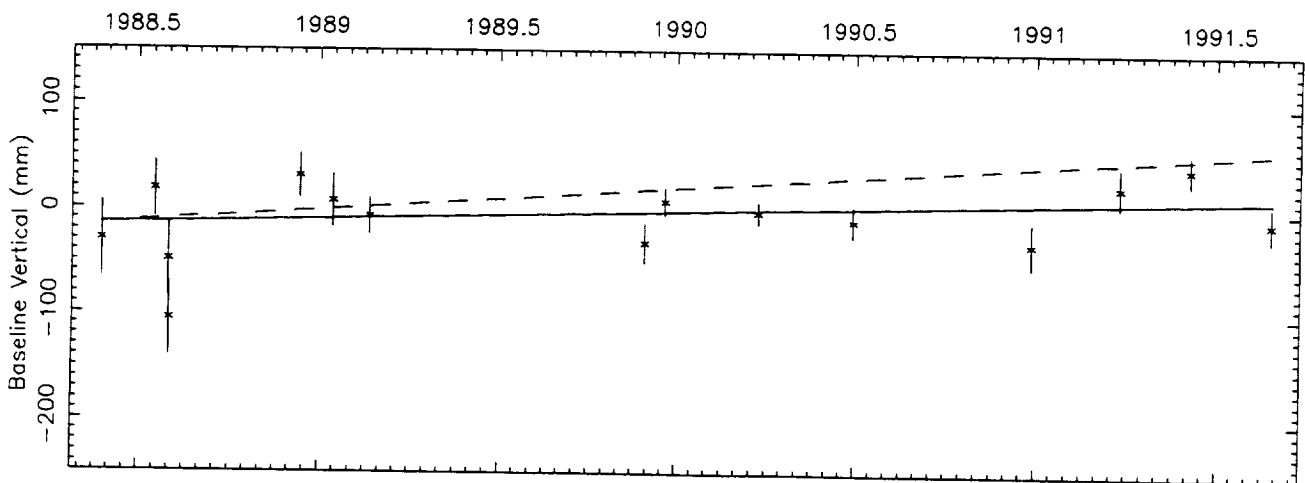
Weighted mean length = 7769504661.6 mm



Observed Rate = -41.4 ± 2.6 mm/yr
 NUVEL model rate = -38.3 mm/yr

Wrms of fit = 9.4 mm

Reduced Chi square = 1.49

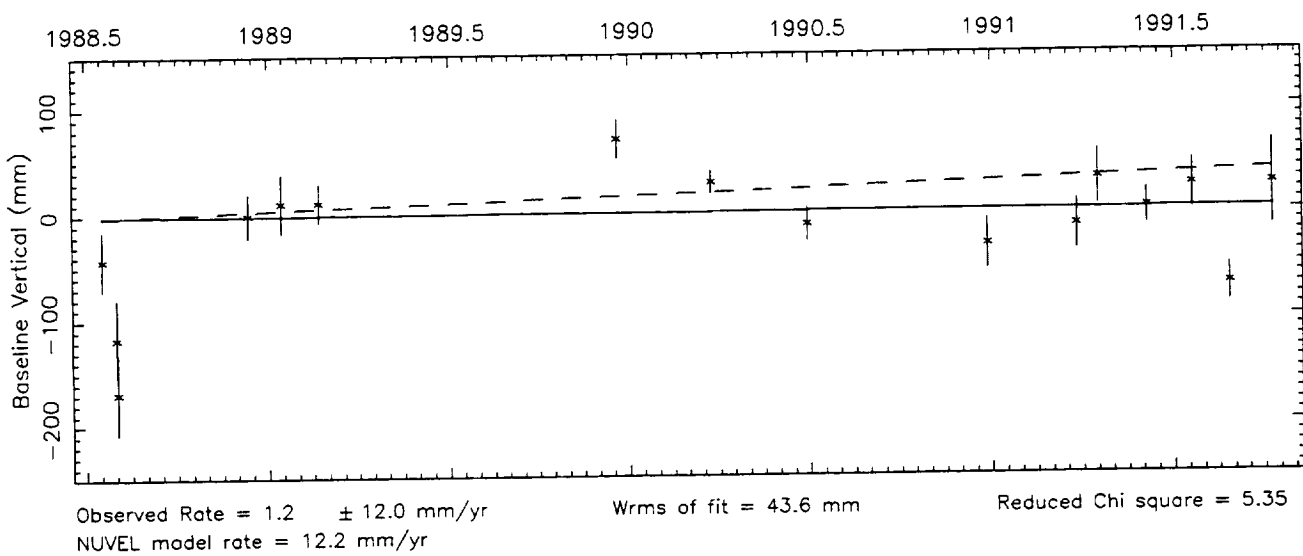
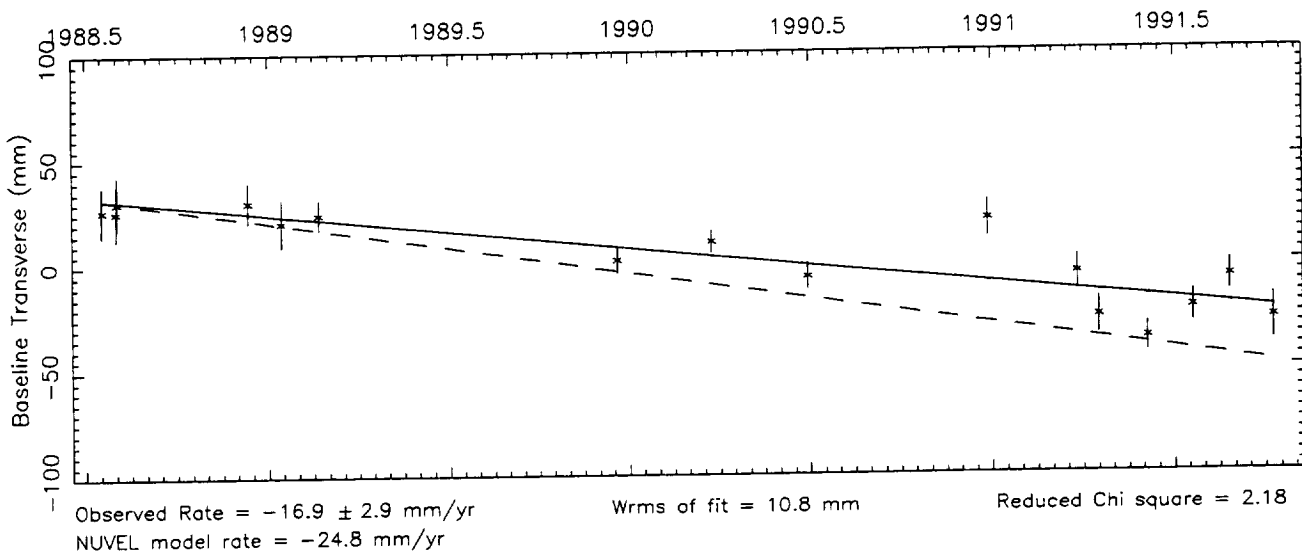
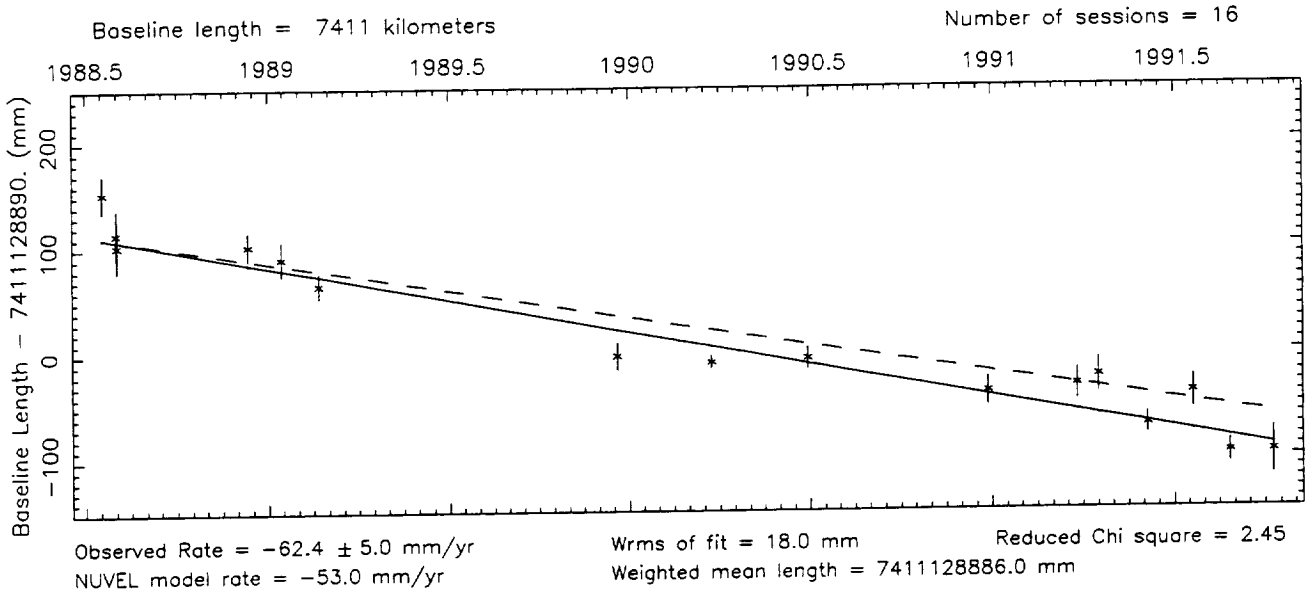


Observed Rate = 8.2 ± 7.2 mm/yr
 NUVEL model rate = 22.0 mm/yr

Wrms of fit = 24.1 mm

Reduced Chi square = 2.14

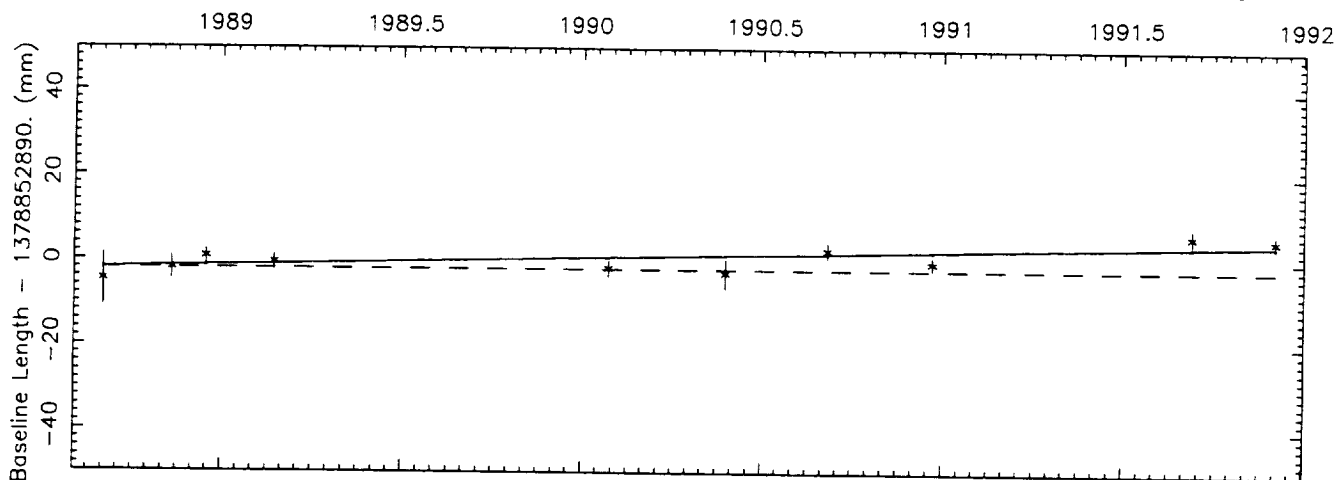
Vector baseline plots for DSS45 -SESHAN25



Vector baseline plots for DSS65 -MEDICINA

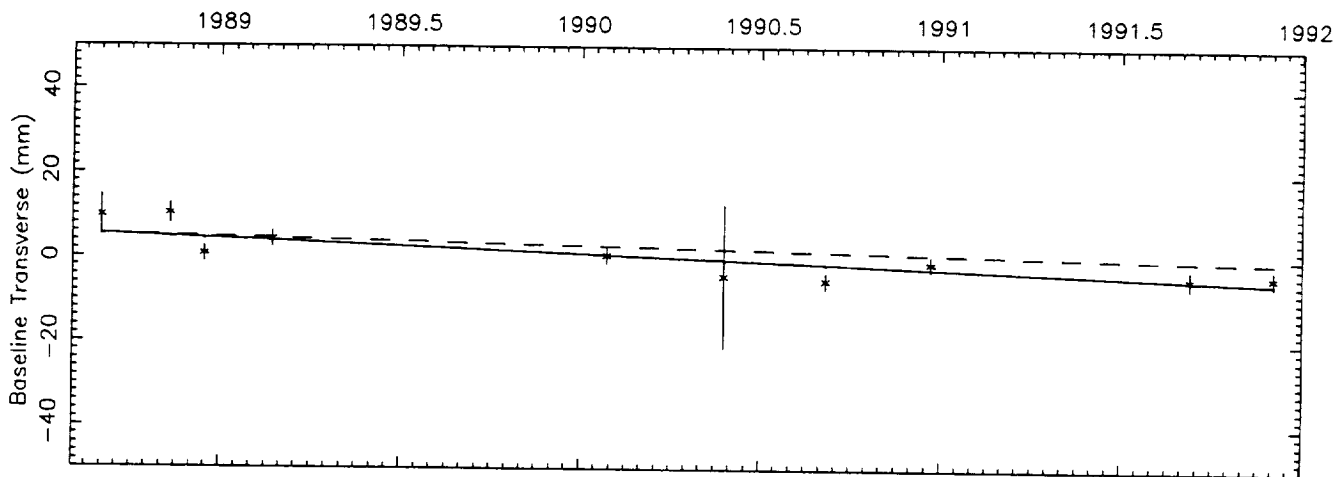
Baseline length = 1379 kilometers

Number of sessions = 10



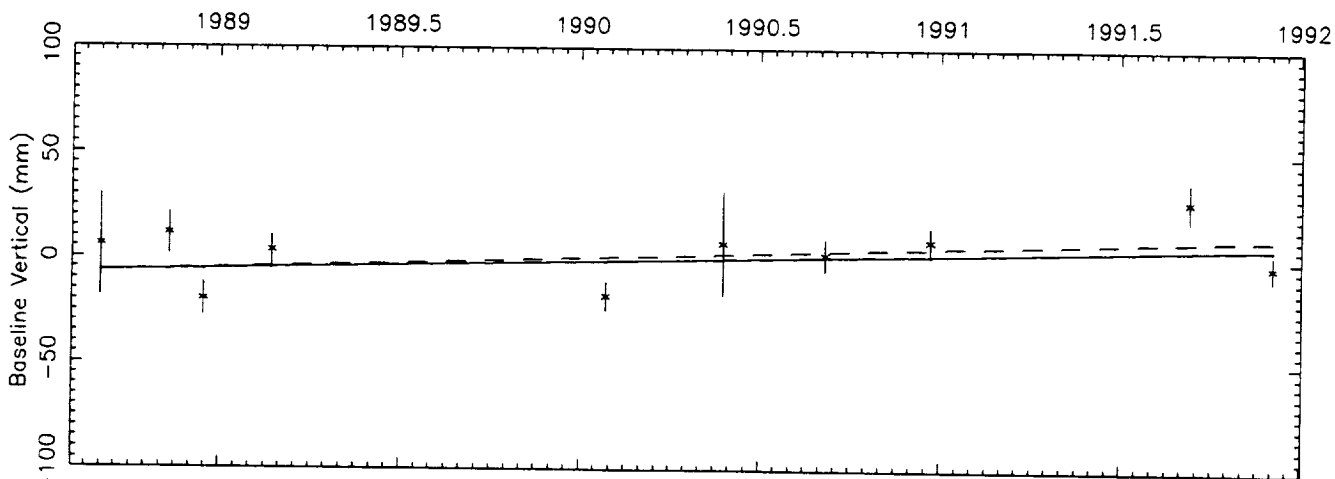
Observed Rate = $1.9 \pm .6$ mm/yr
 NUVEL model rate = $.0$ mm/yr

Wrms of fit = 2.0 mm
 Reduced Chi square = 1.31
 Weighted mean length = 1378852891.2 mm



Observed Rate = $-3.3 \pm .9$ mm/yr
 NUVEL model rate = -1.9 mm/yr

Wrms of fit = 2.7 mm
 Reduced Chi square = 1.85



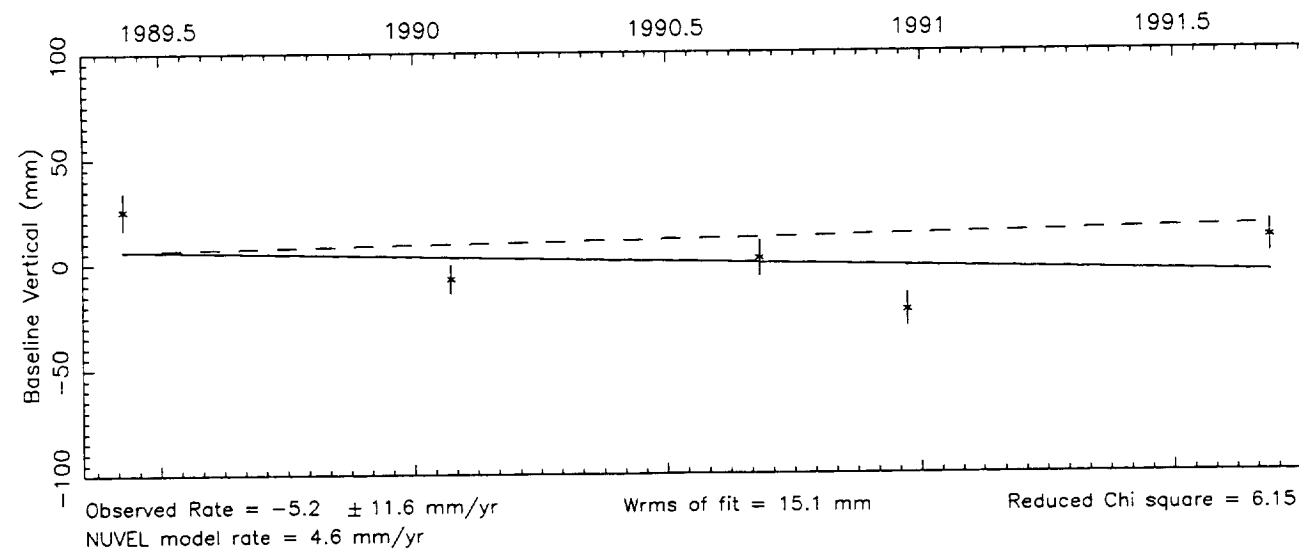
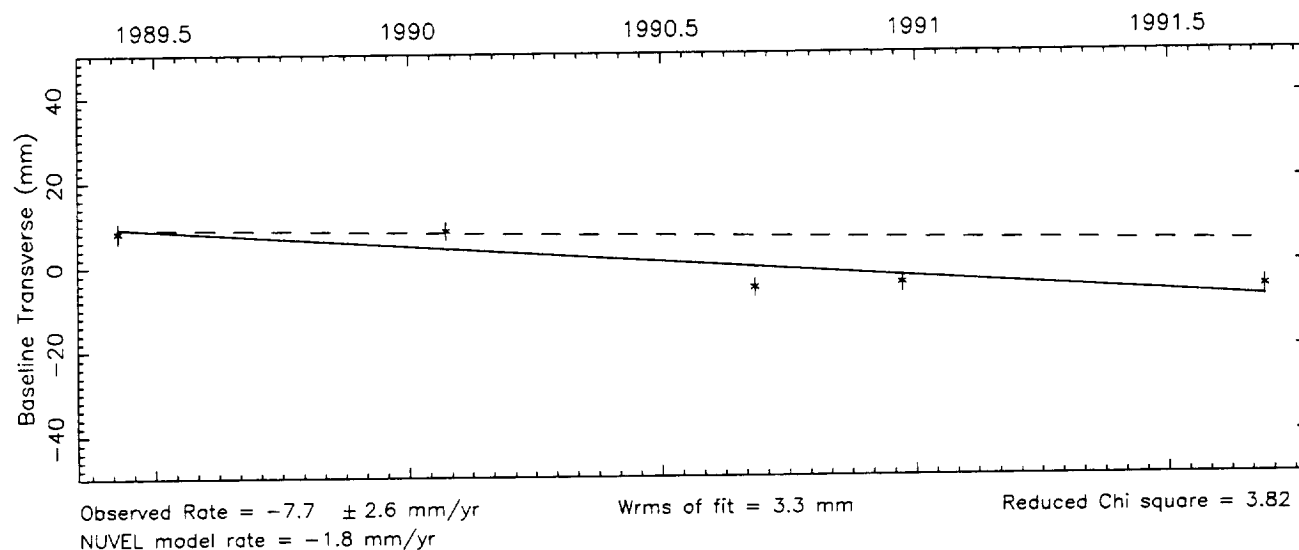
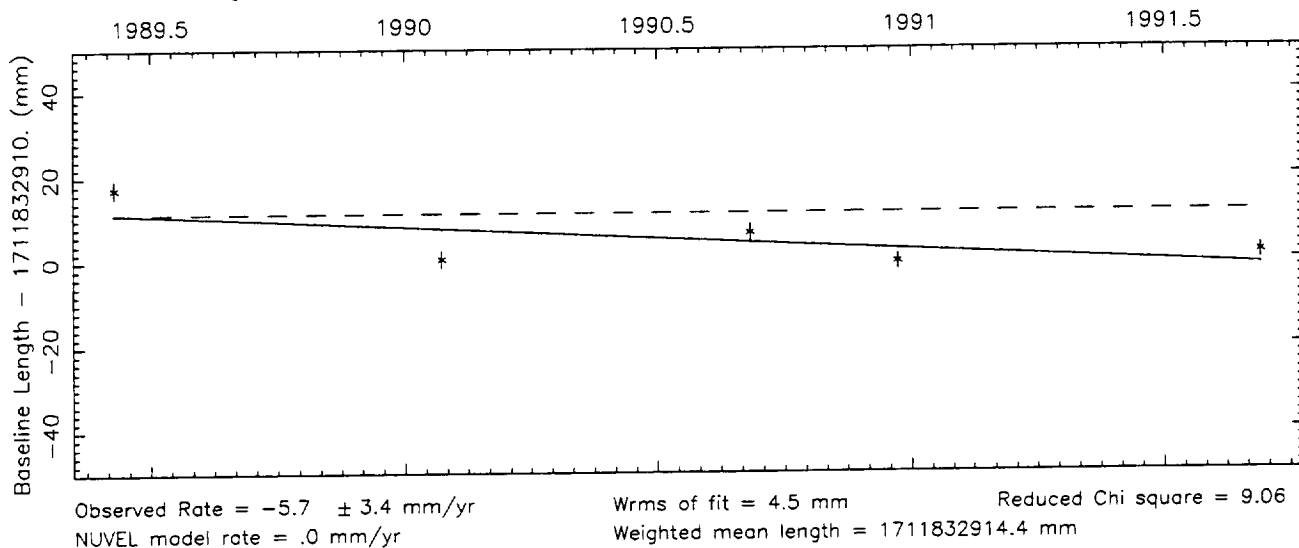
Observed Rate = 3.9 ± 3.9 mm/yr
 NUVEL model rate = 5.3 mm/yr

Wrms of fit = 12.4 mm
 Reduced Chi square = 2.90

Vector baseline plots for DSS65 -NOTO

Baseline length = 1712 kilometers

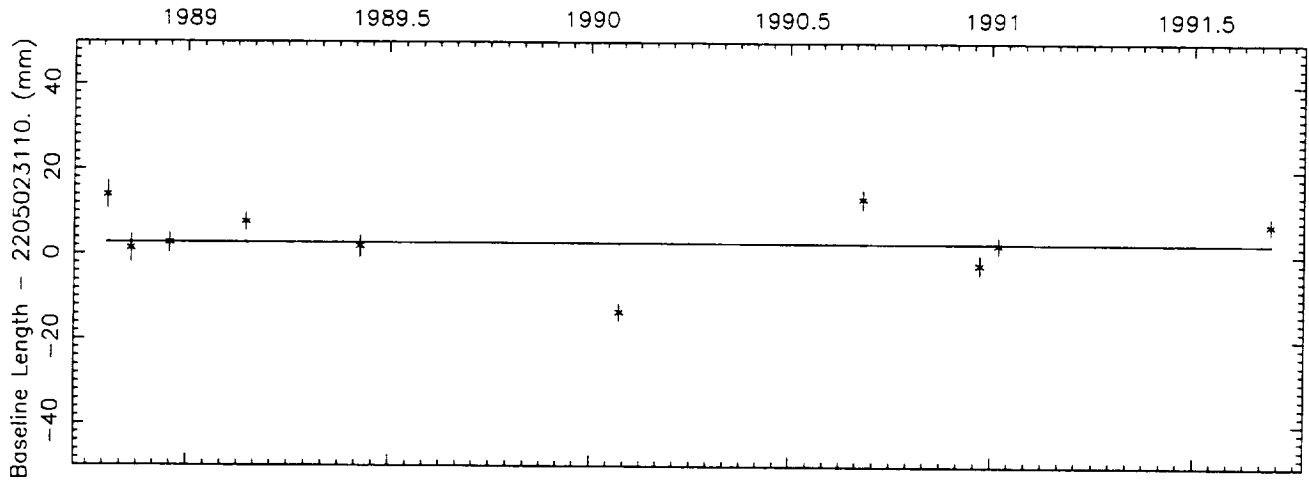
Number of sessions = 5



Vector baseline plots for DSS65 -ONSALA60

Baseline length = 2205 kilometers

Number of sessions = 10

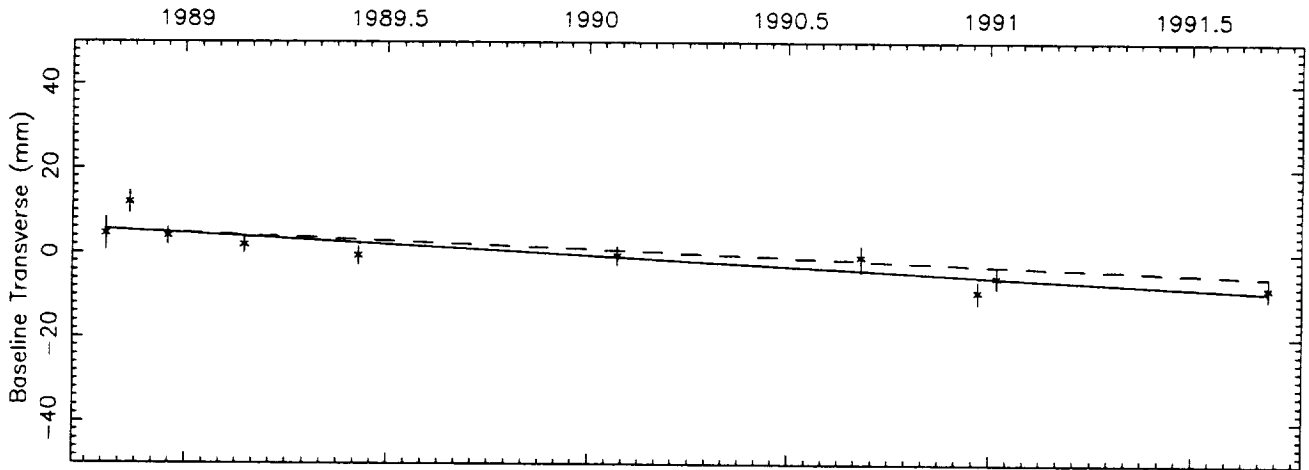


Observed Rate = $.0 \pm 2.7$ mm/yr
 NUVEL model rate = $.0$ mm/yr

Wrms of fit = 7.6 mm

Reduced Chi square = 13.64

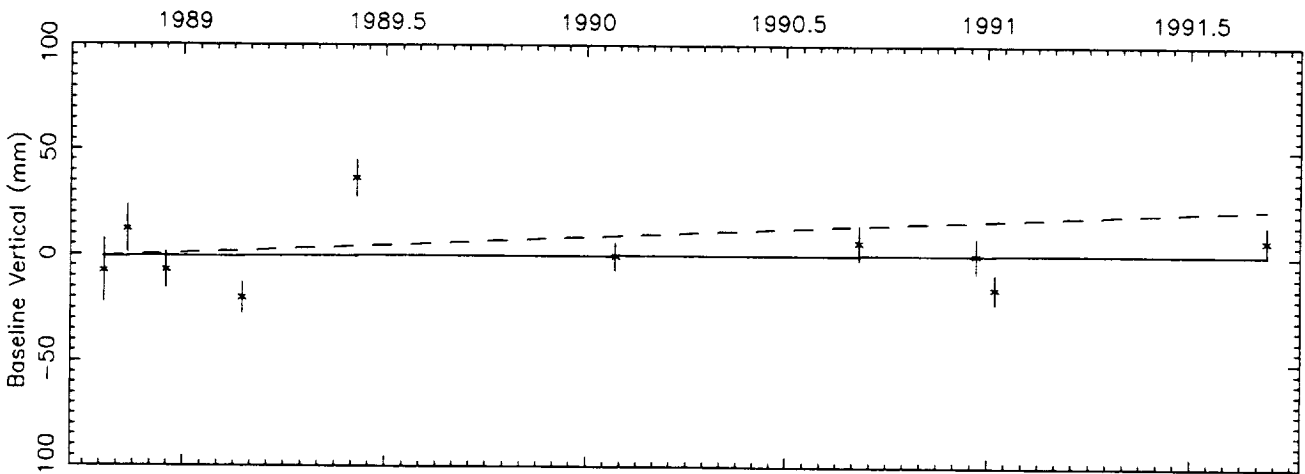
Weighted mean length = 2205023112.7 mm



Observed Rate = -5.1 ± 1.0 mm/yr
 NUVEL model rate = -3.8 mm/yr

Wrms of fit = 2.8 mm

Reduced Chi square = 1.57



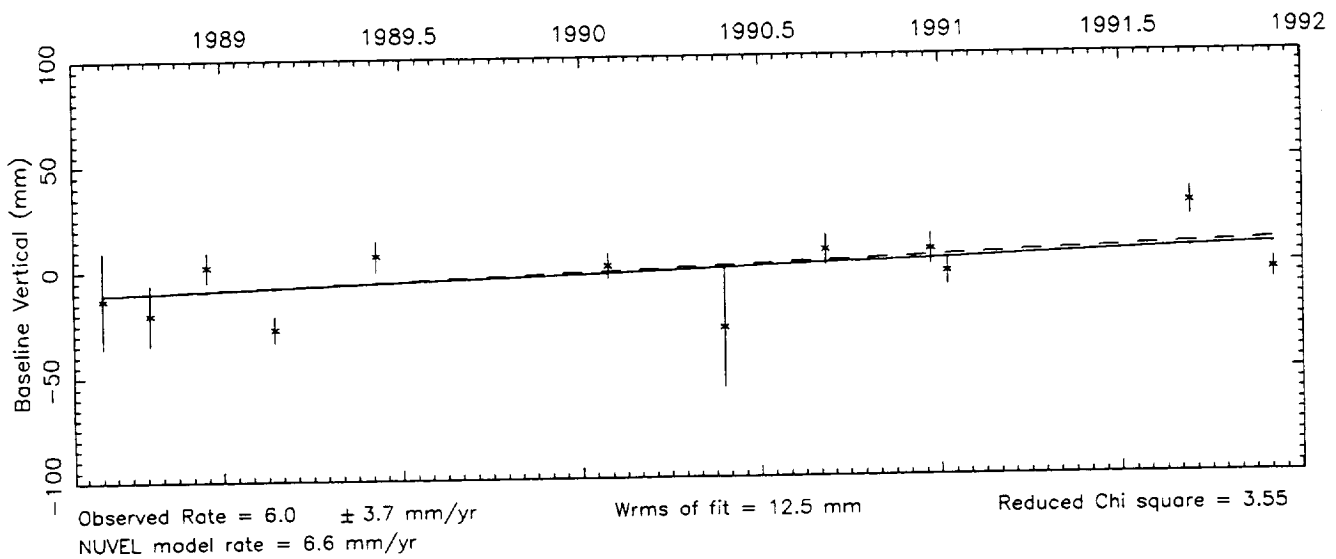
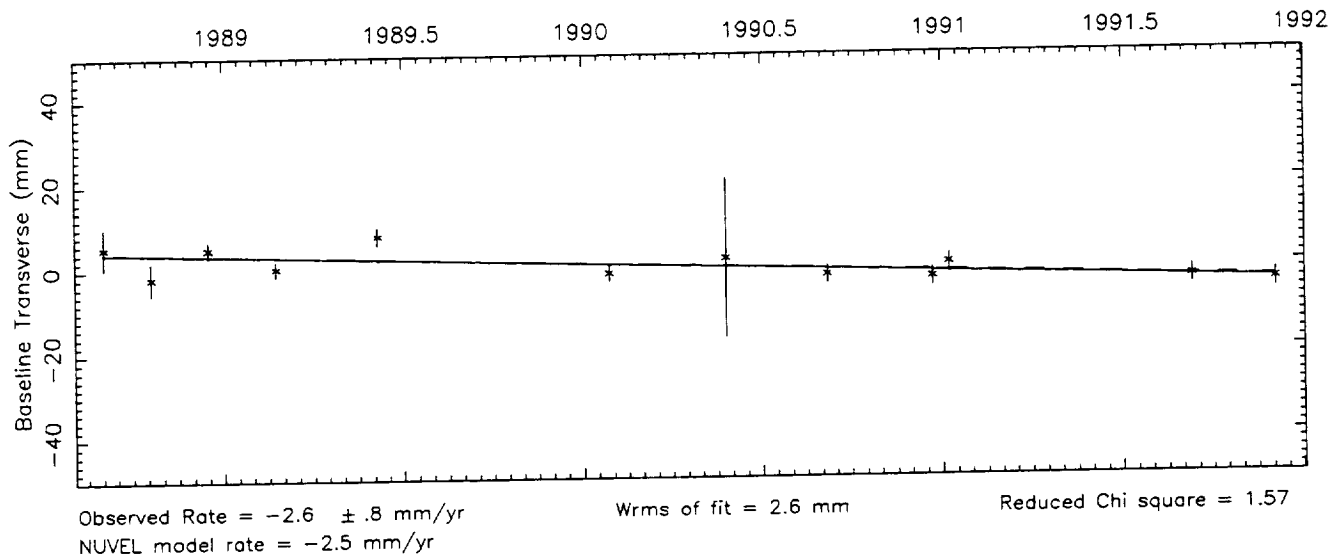
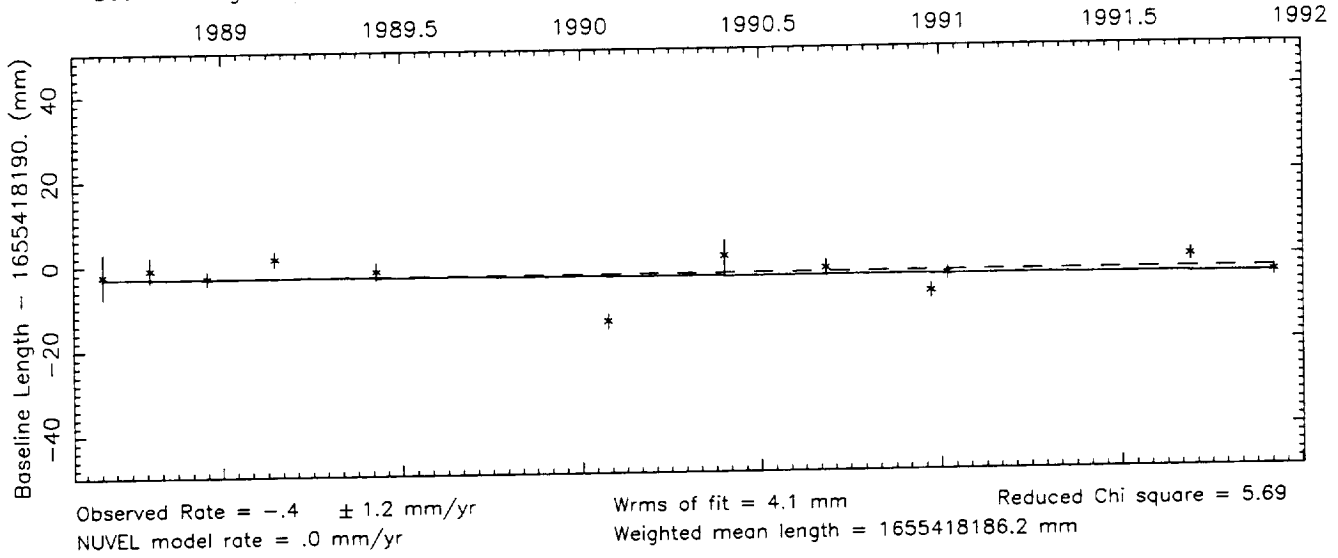
Observed Rate = $.6 \pm 5.4$ mm/yr
 NUVEL model rate = 8.1 mm/yr

Wrms of fit = 14.8 mm

Reduced Chi square = 4.08

Vector baseline plots for DSS65 -WETTZELL

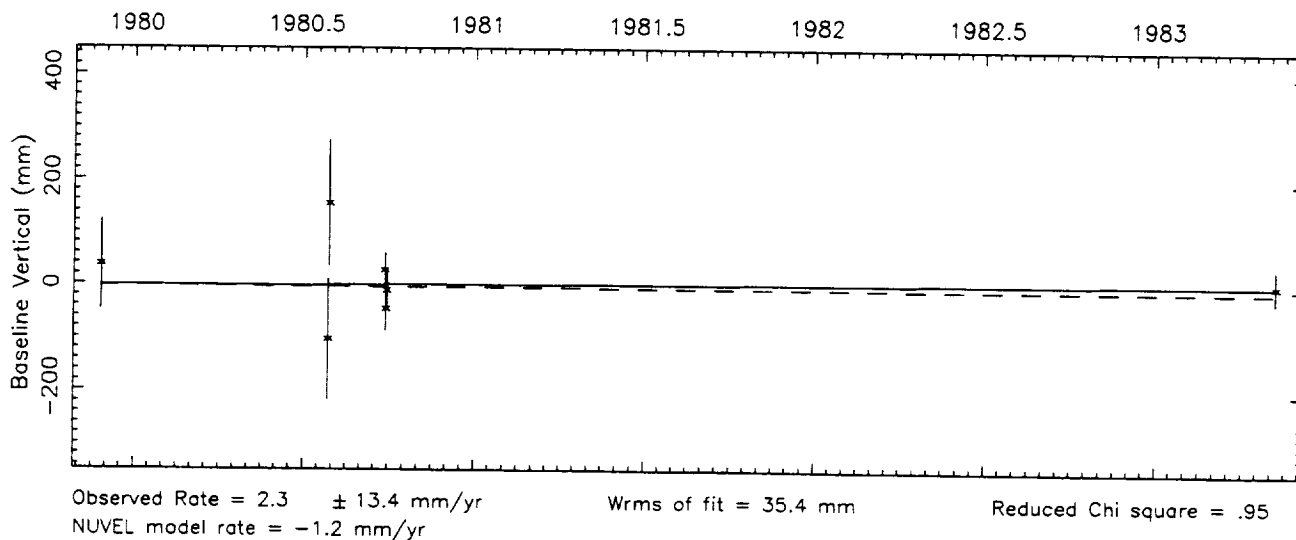
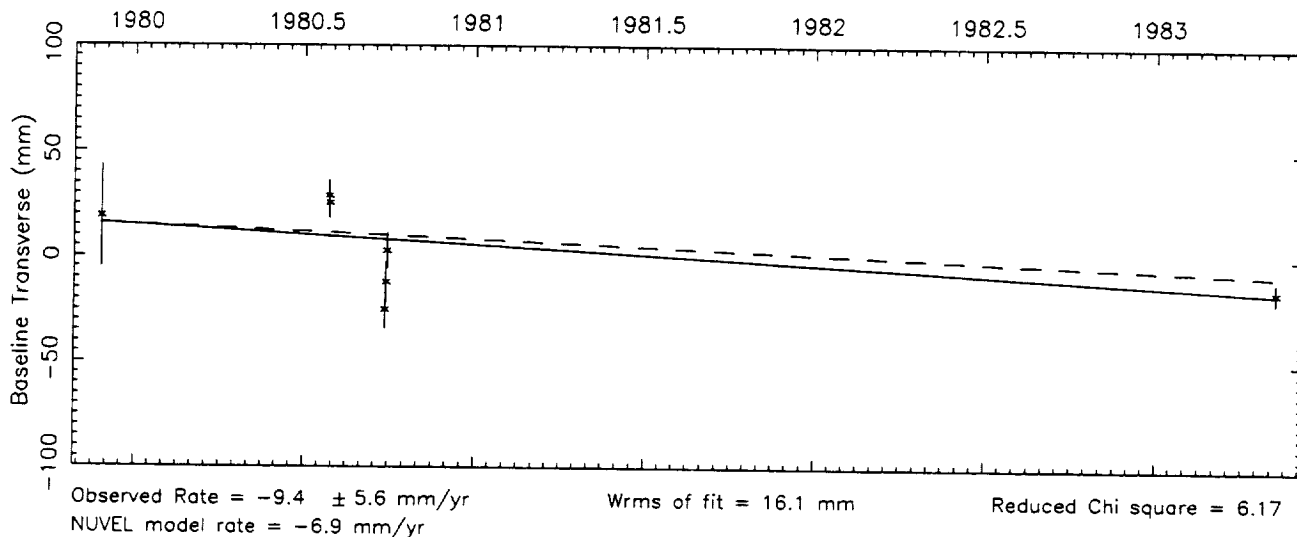
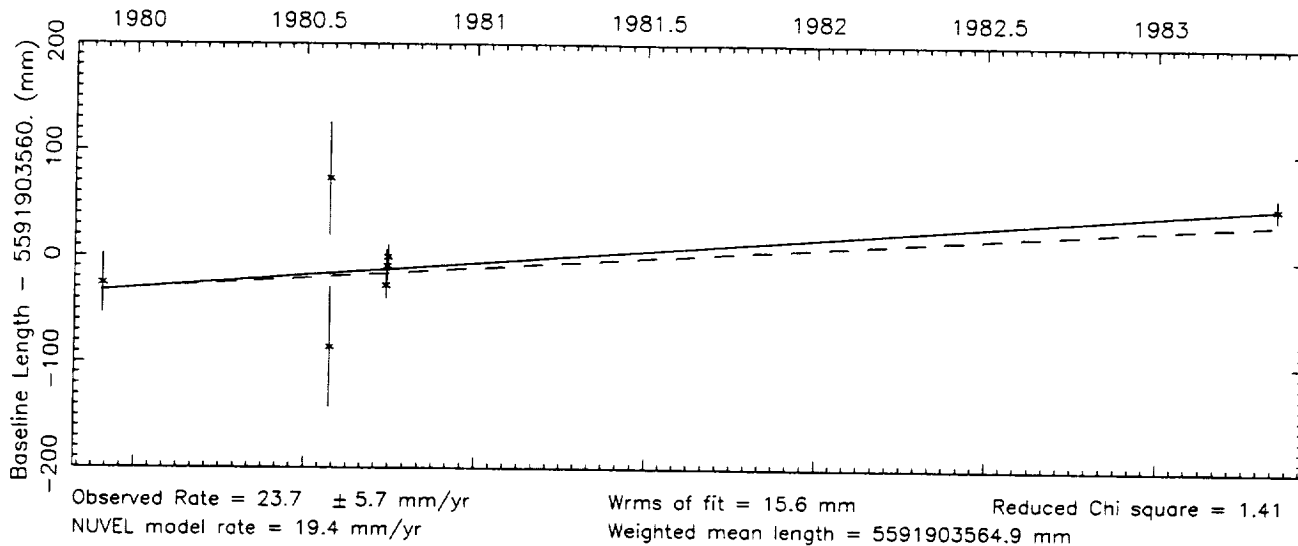
Baseline length = 1655 kilometers Number of sessions = 12



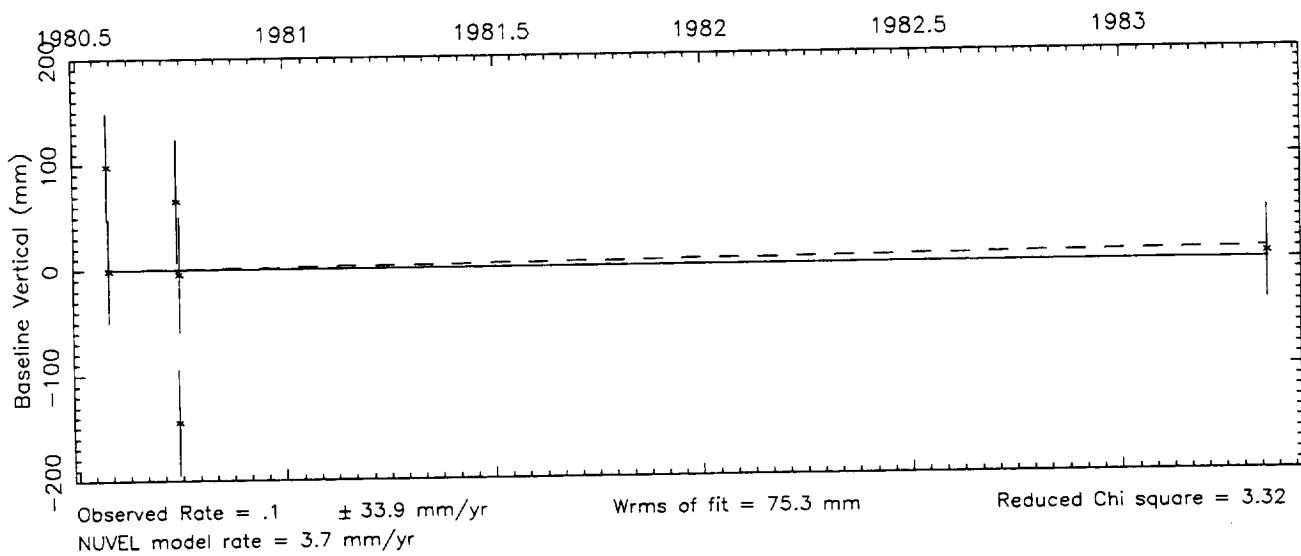
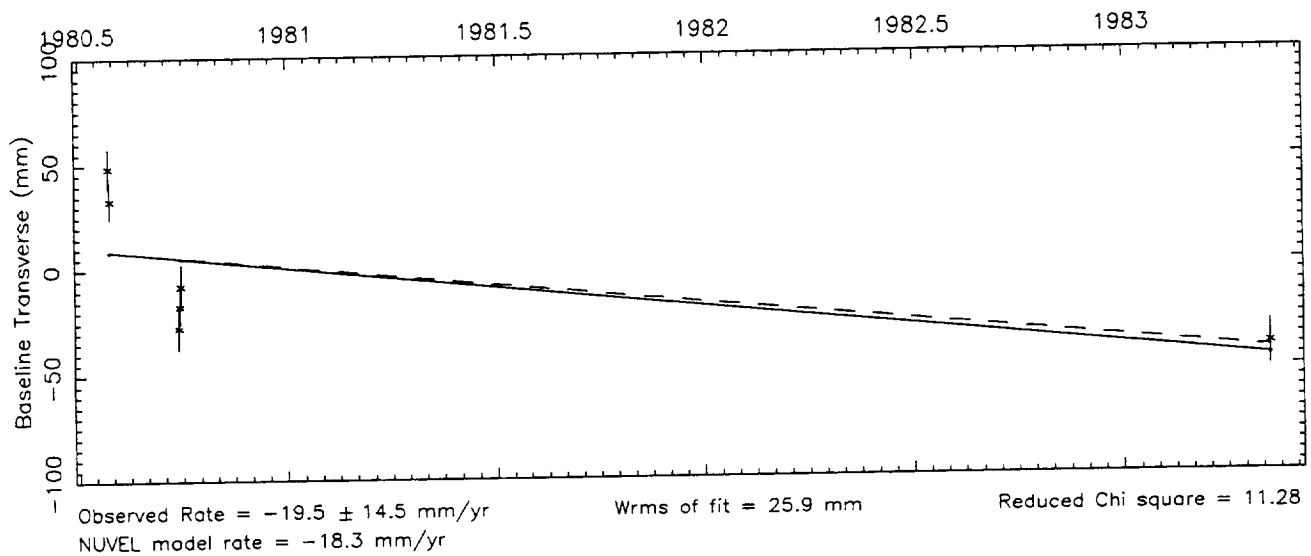
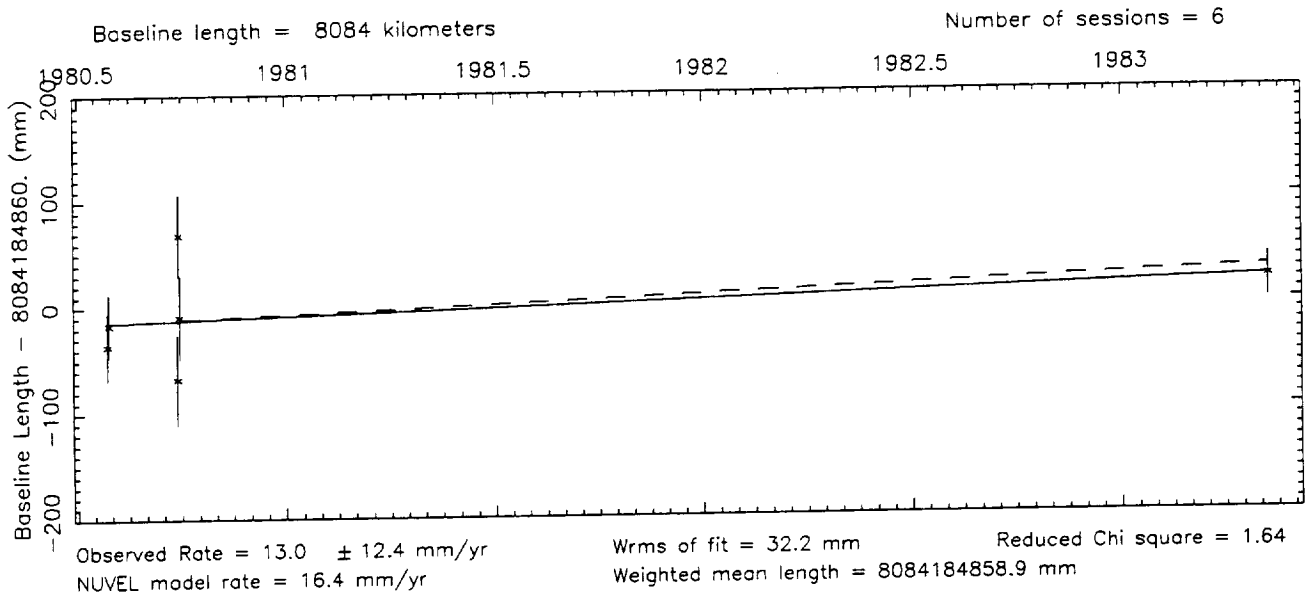
Vector baseline plots for EFLSBERG-HAYSTACK

Baseline length = 5592 kilometers

Number of sessions = 7



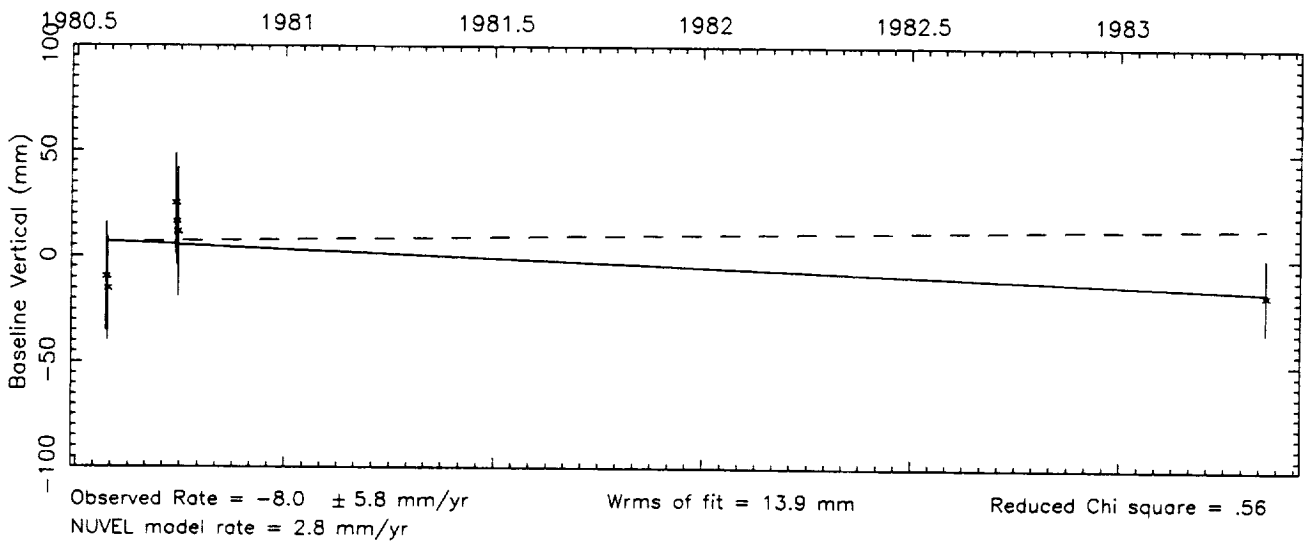
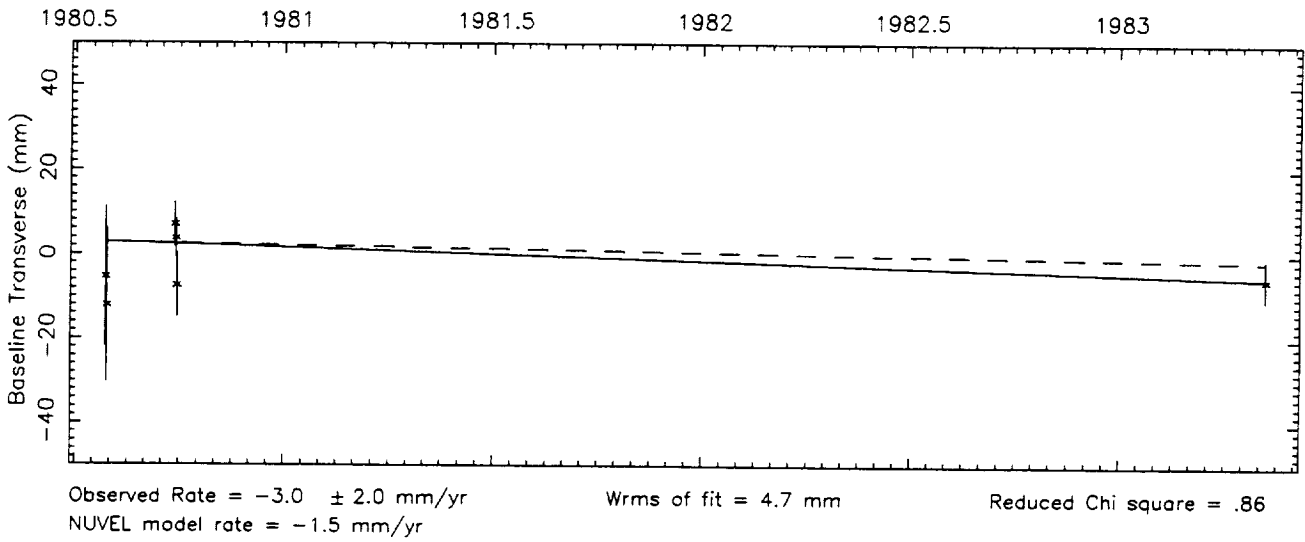
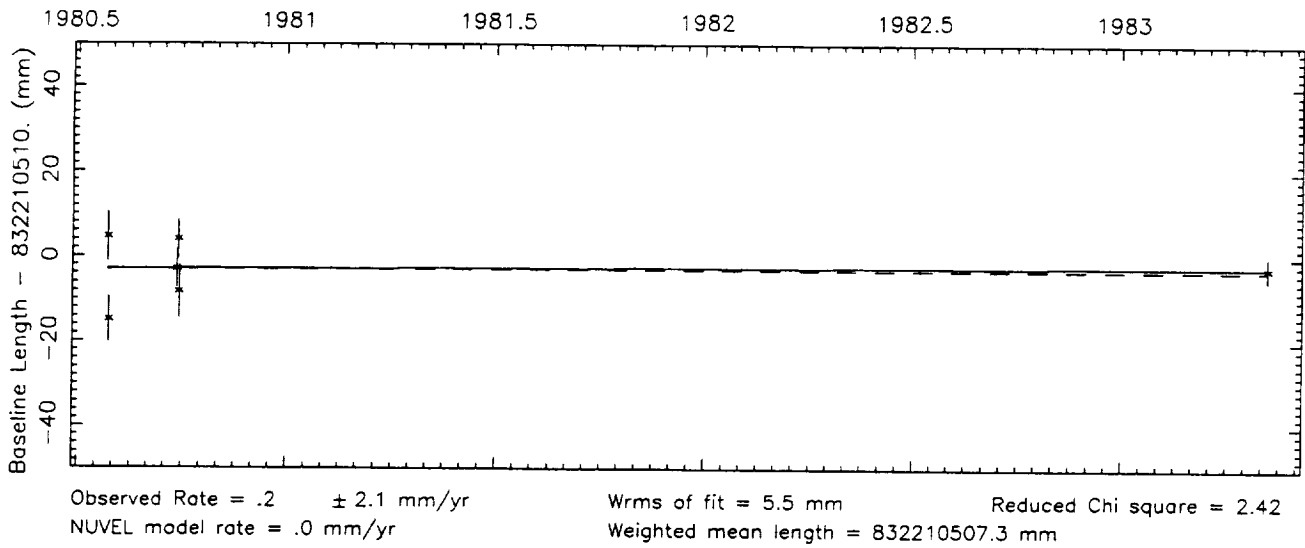
Vector baseline plots for EFLSBERG-HRAS 085



Vector baseline plots for EFLSBERG-ONSALA60

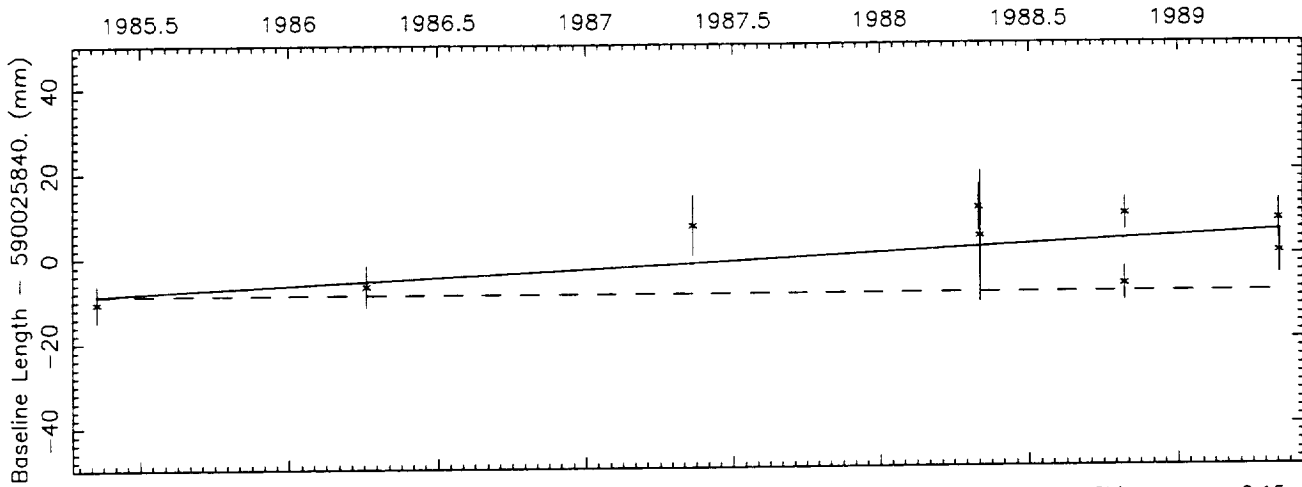
Baseline length = 832 kilometers

Number of sessions = 6

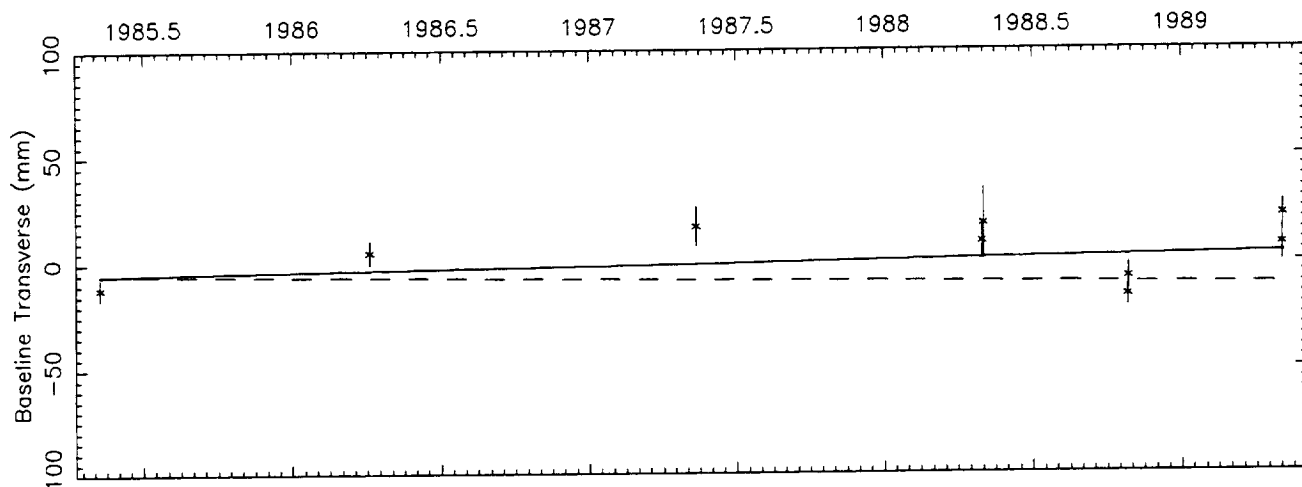


Vector baseline plots for ELY -HATCREEK

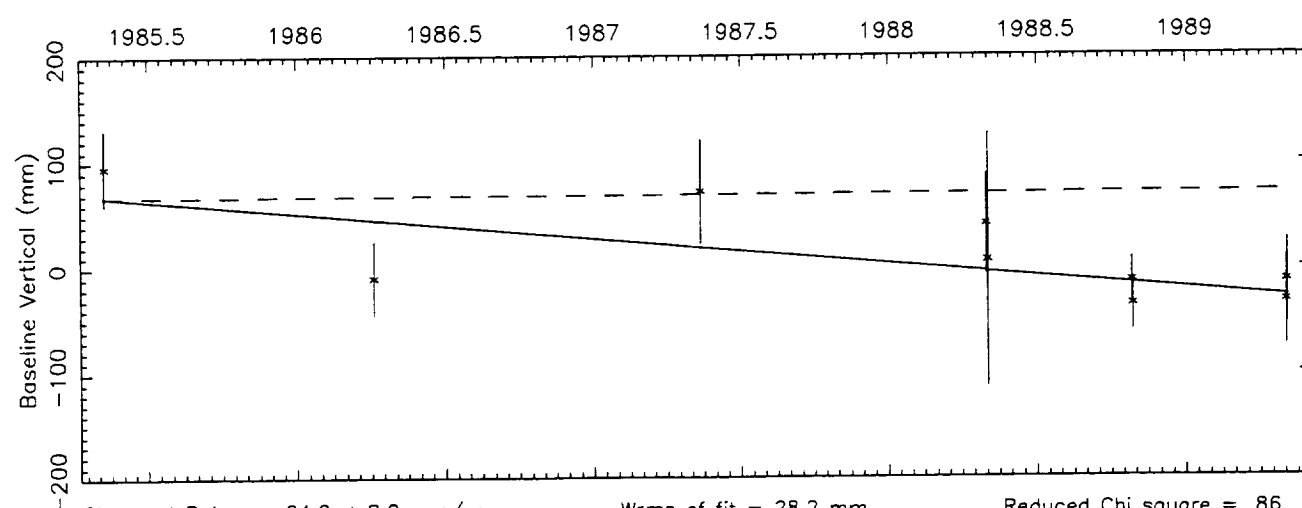
Baseline length = 590 kilometers Number of sessions = 9



Observed Rate = 3.6 ± 1.7 mm/yr Wrms of fit = 6.5 mm Reduced Chi square = 2.15
 NUVEL model rate = .0 mm/yr Weighted mean length = 590025840.7 mm



Observed Rate = 2.3 ± 3.1 mm/yr Wrms of fit = 12.6 mm Reduced Chi square = 4.52
 NUVEL model rate = -1.4 mm/yr

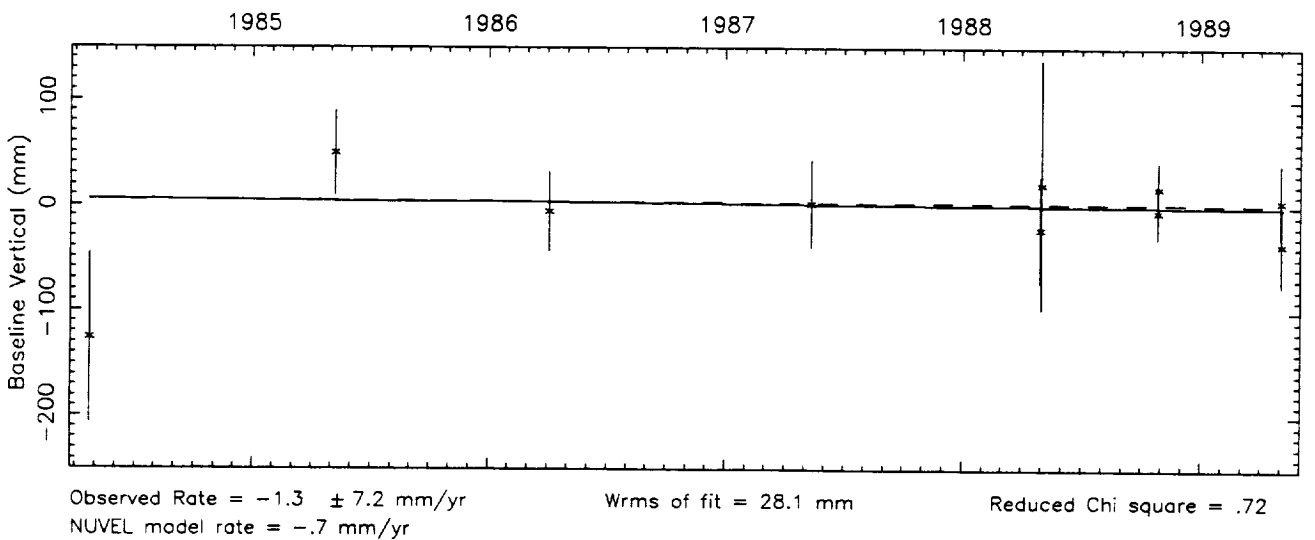
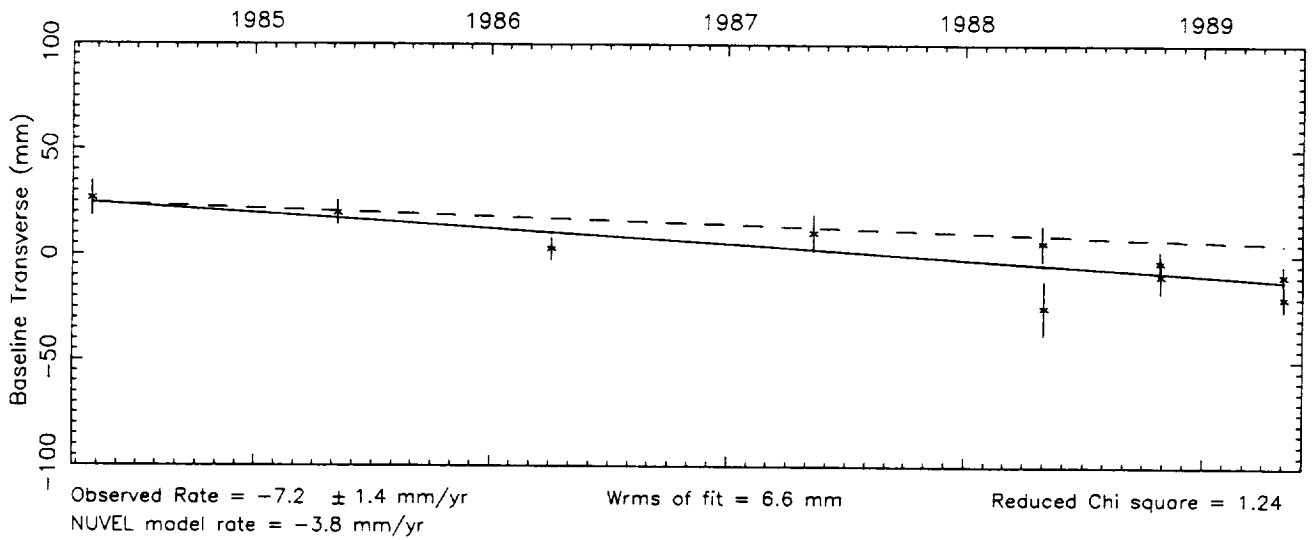
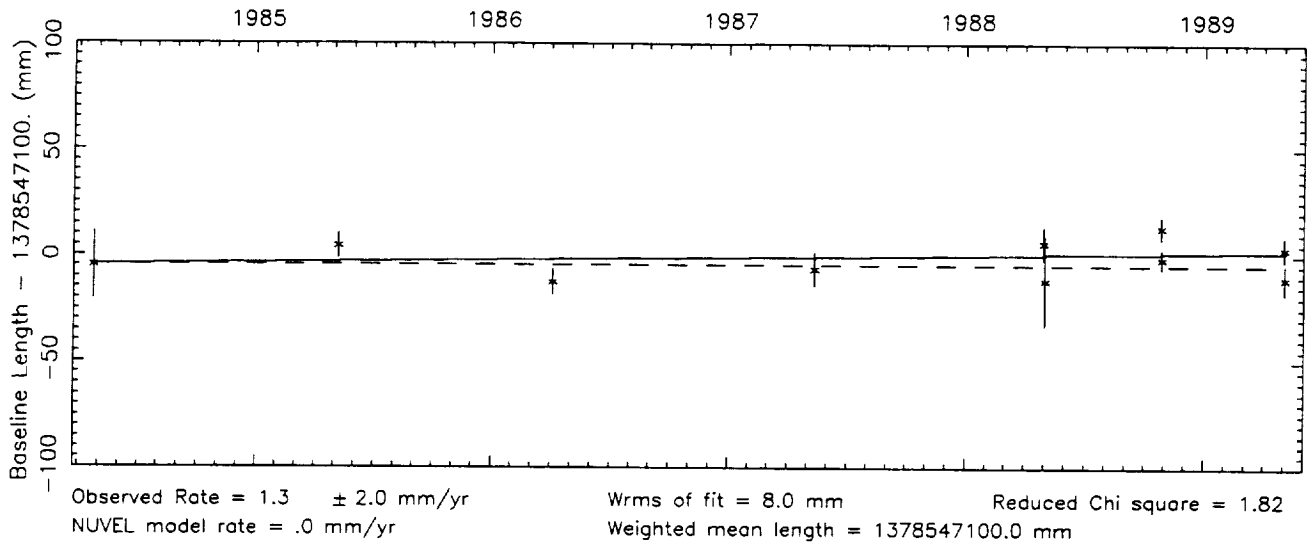


Observed Rate = -24.0 ± 8.2 mm/yr Wrms of fit = 28.2 mm Reduced Chi square = .86
 NUVEL model rate = .9 mm/yr

Vector baseline plots for ELY -HRAS 085

Baseline length = 1379 kilometers

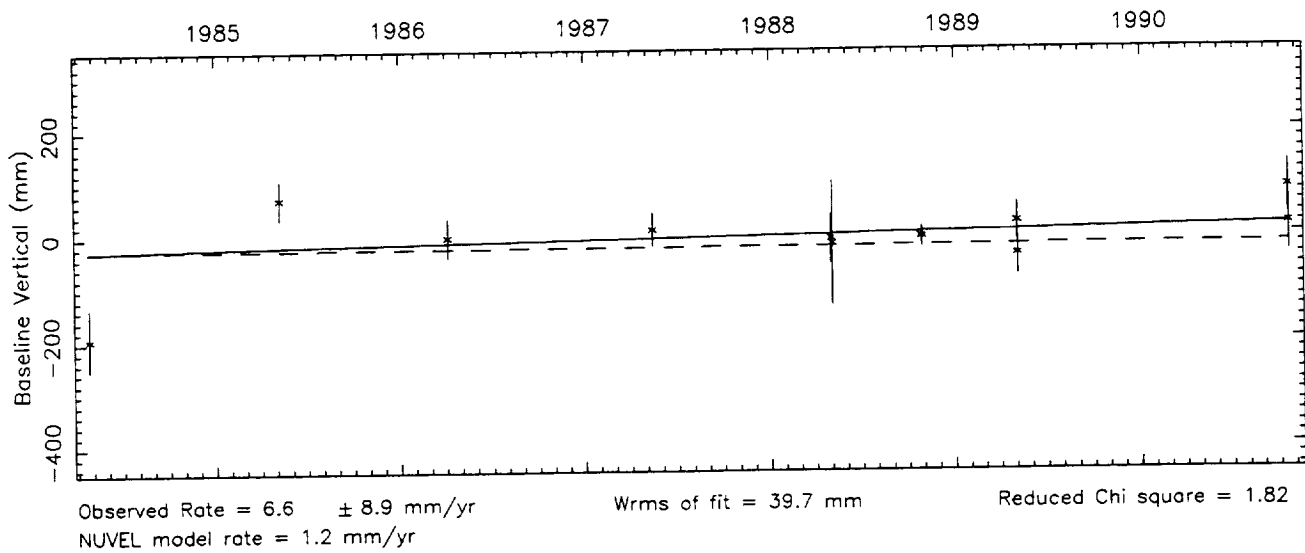
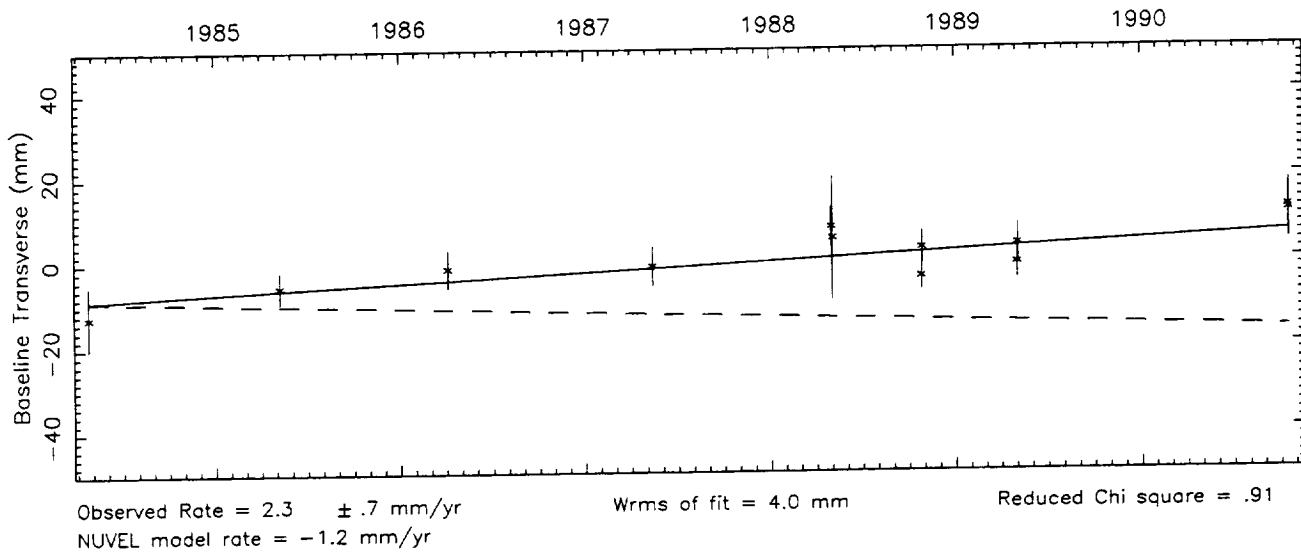
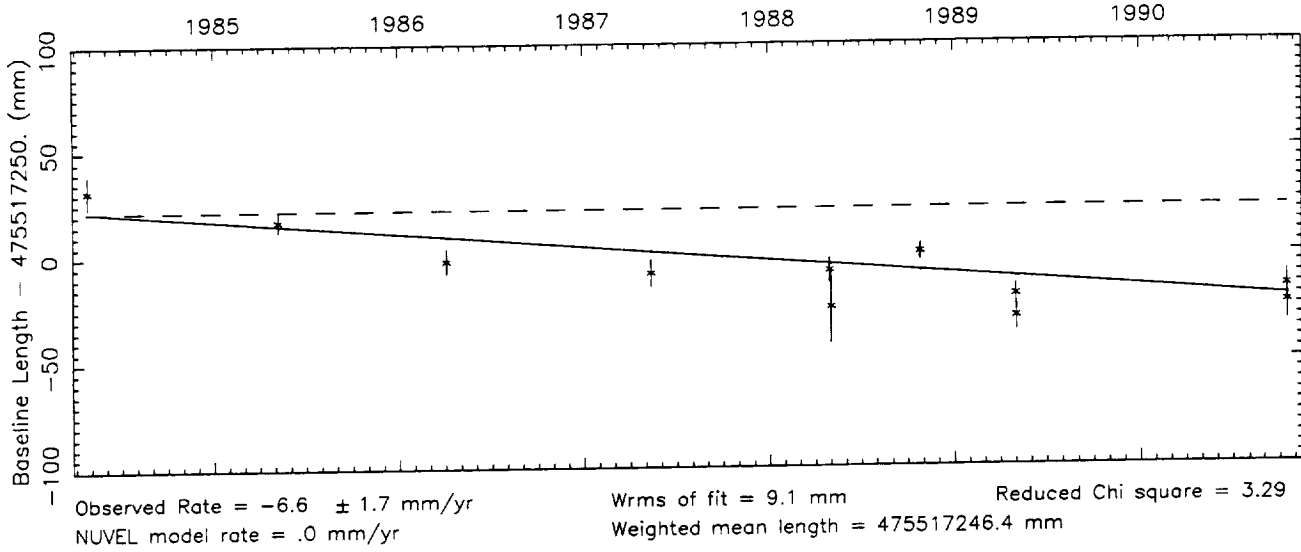
Number of sessions = 10



Vector baseline plots for ELY -MOJAVE12

Baseline length = 476 kilometers

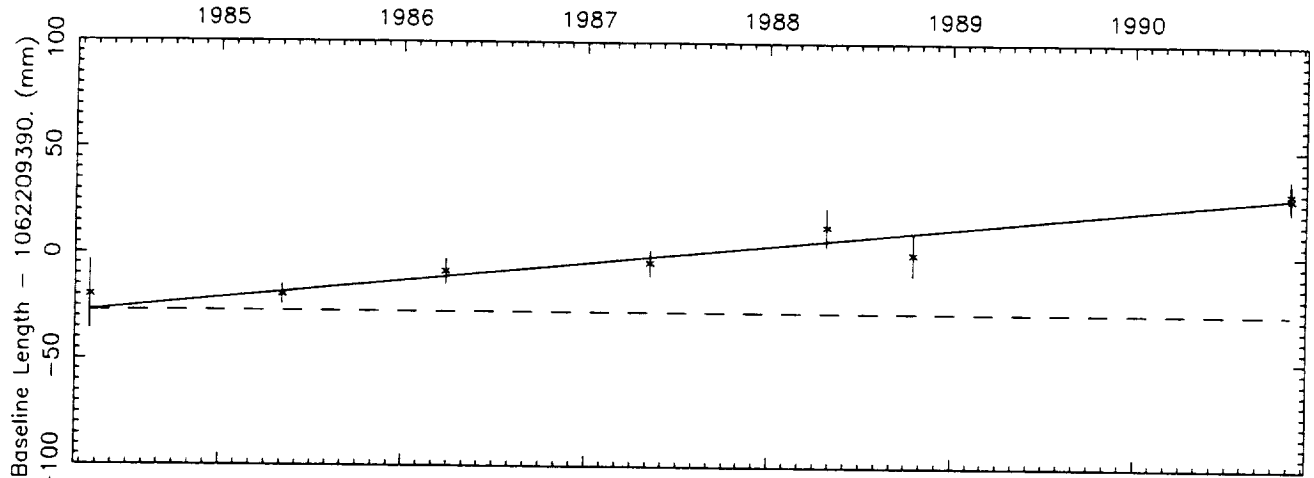
Number of sessions = 12



Vector baseline plots for FLAGSTAF-HATCREEK

Baseline length = 1062 kilometers

Number of sessions = 8

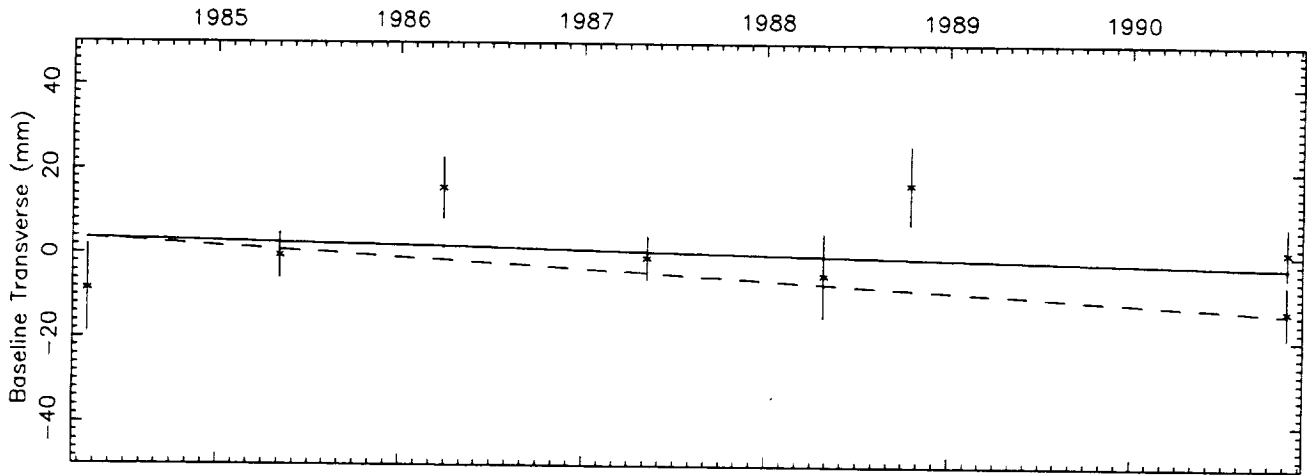


Observed Rate = 8.4 ± 0.7 mm/yr
 NUVEL model rate = $.0$ mm/yr

Wrms of fit = 3.7 mm

Reduced Chi square = .38

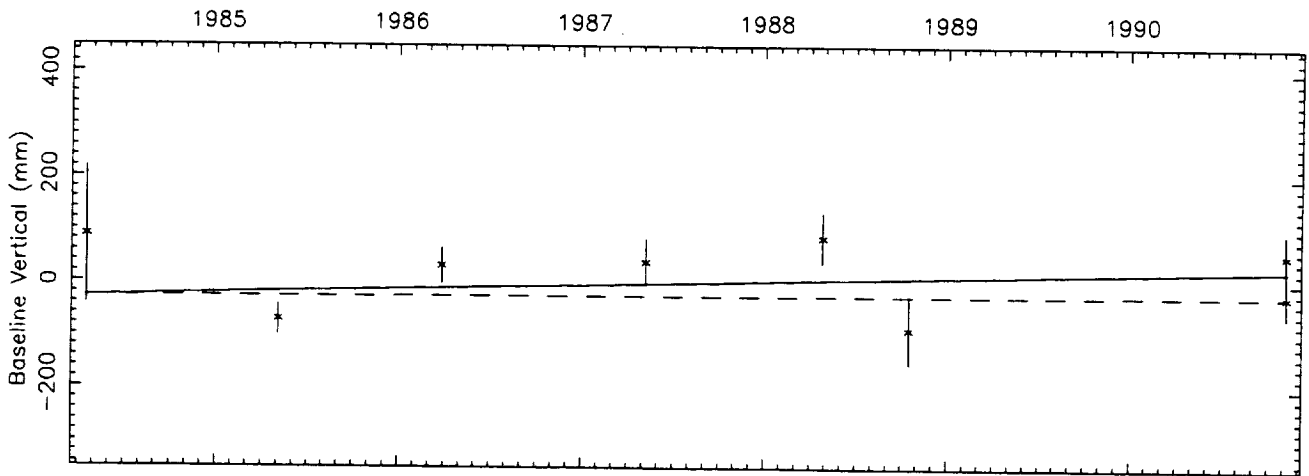
Weighted mean length = 1062209390.4 mm



Observed Rate = -1.0 ± 1.5 mm/yr
 NUVEL model rate = -2.6 mm/yr

Wrms of fit = 8.3 mm

Reduced Chi square = 2.00



Observed Rate = 8.3 ± 10.2 mm/yr
 NUVEL model rate = $.6$ mm/yr

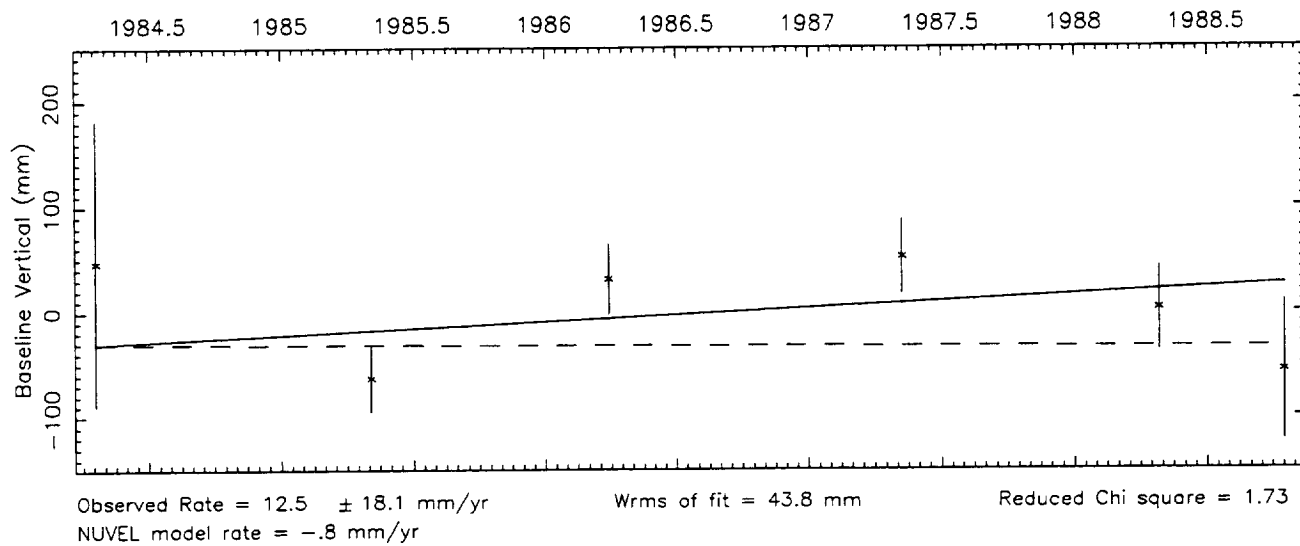
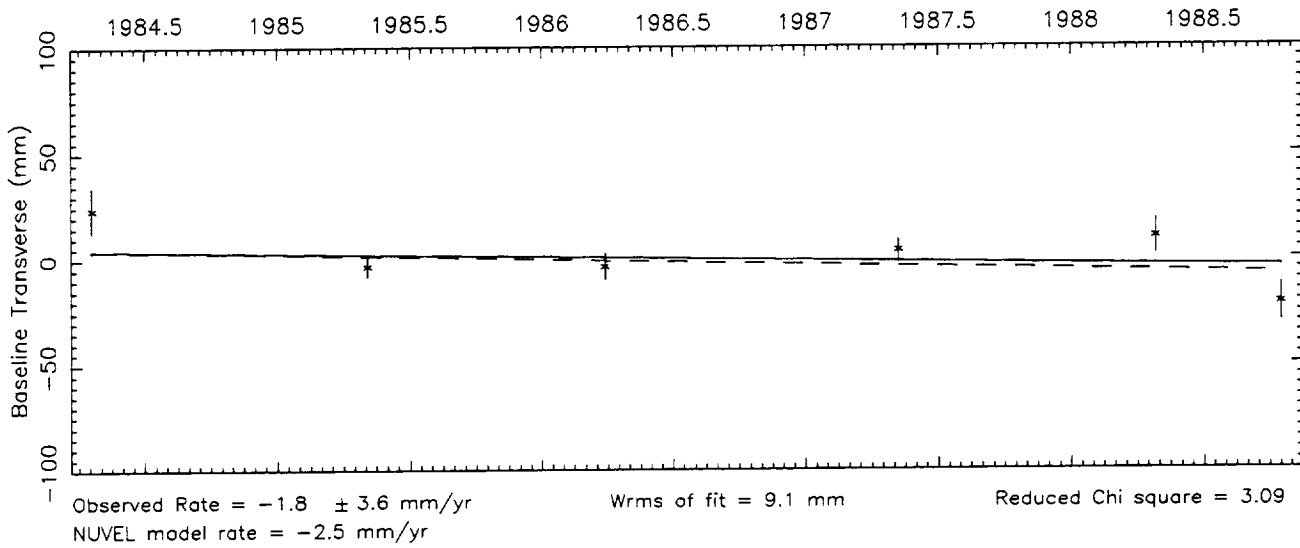
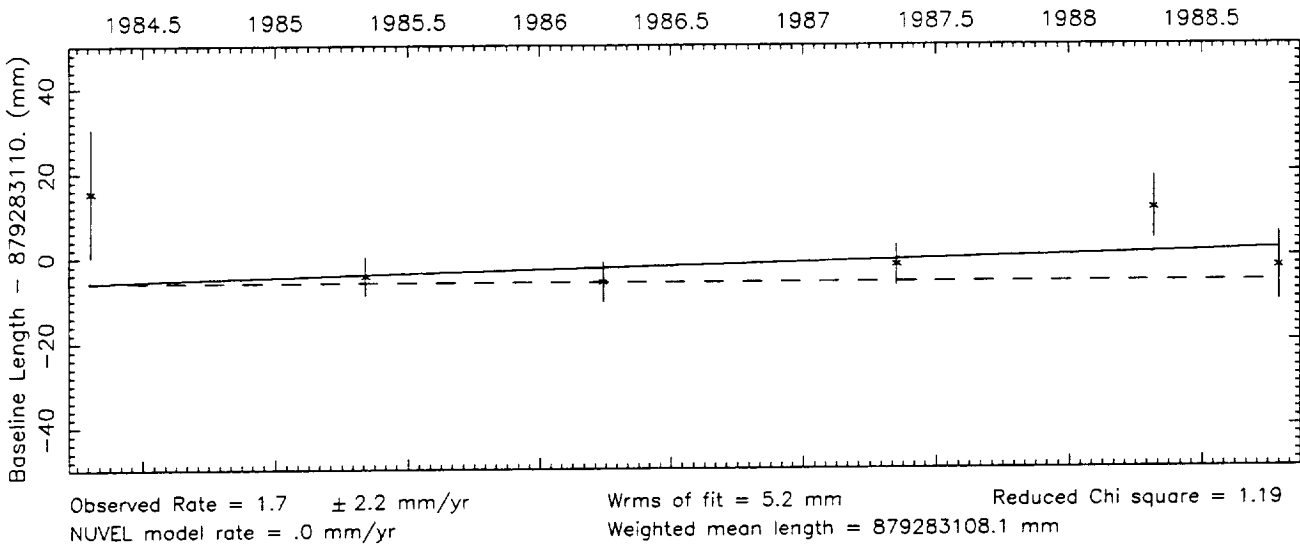
Wrms of fit = 54.9 mm

Reduced Chi square = 2.32

Vector baseline plots for FLAGSTAF-HRAS 085

Baseline length = 879 kilometers

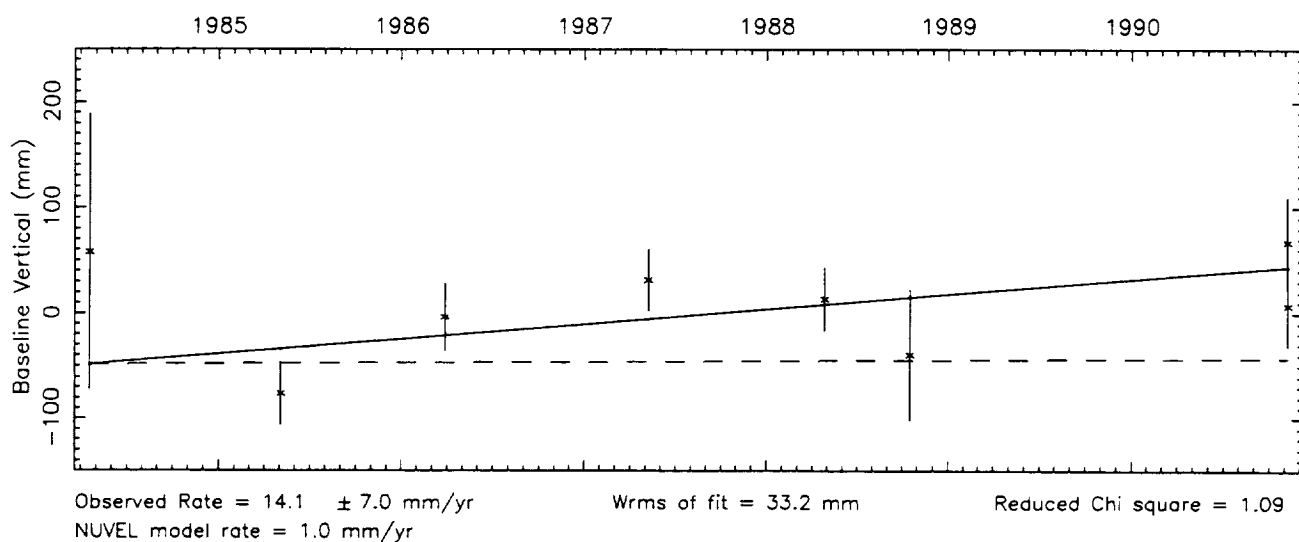
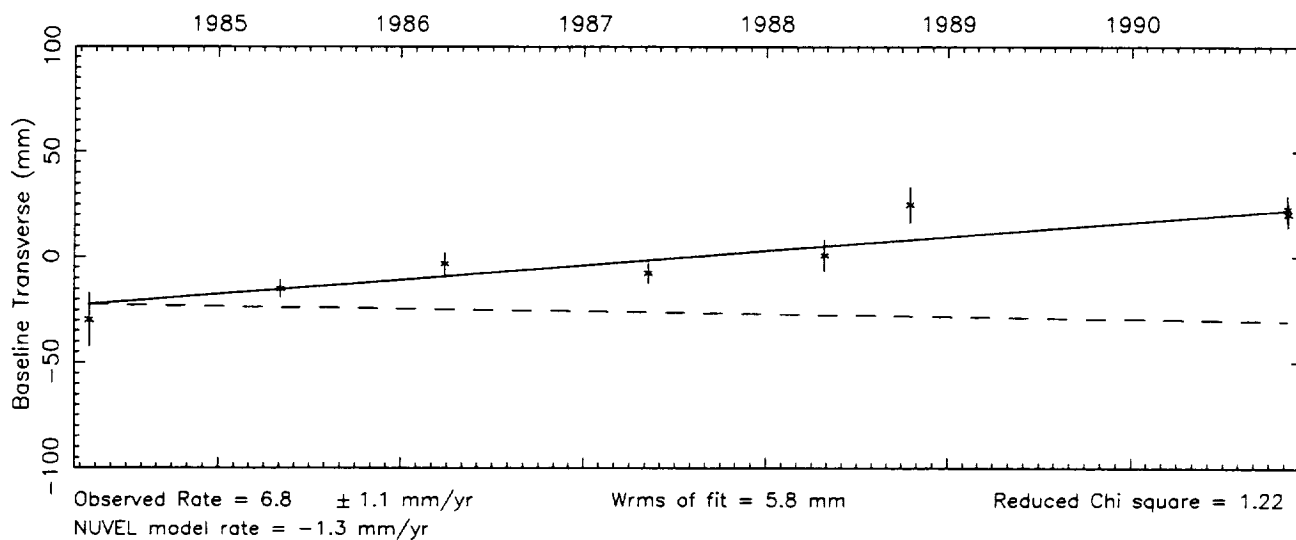
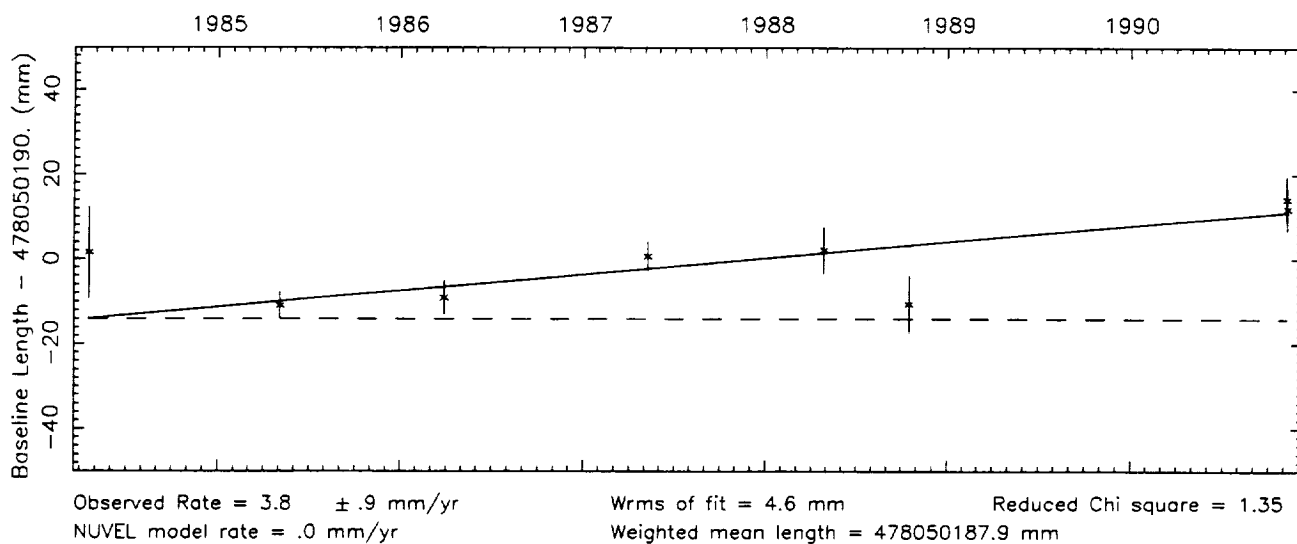
Number of sessions = 6



Vector baseline plots for FLAGSTAF-MOJAVE12

Baseline length = 478 kilometers

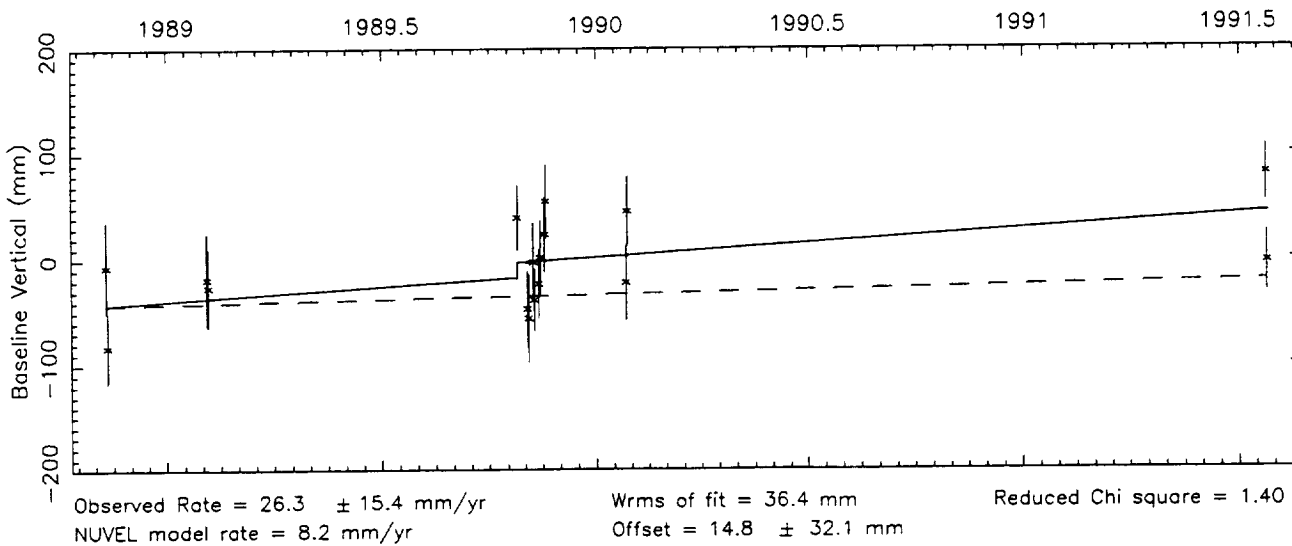
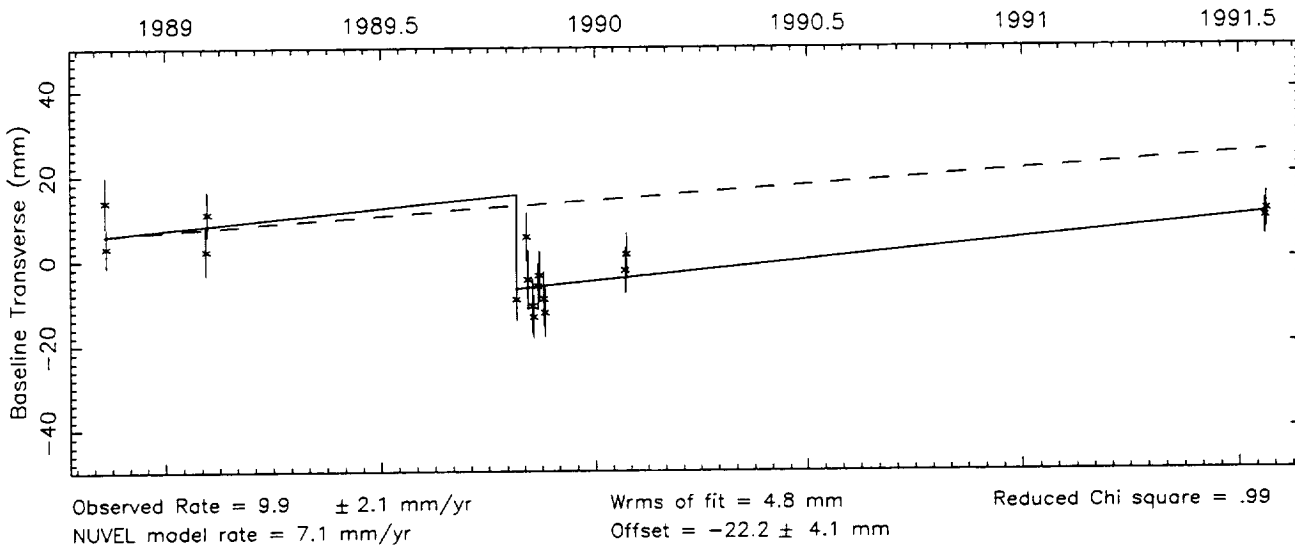
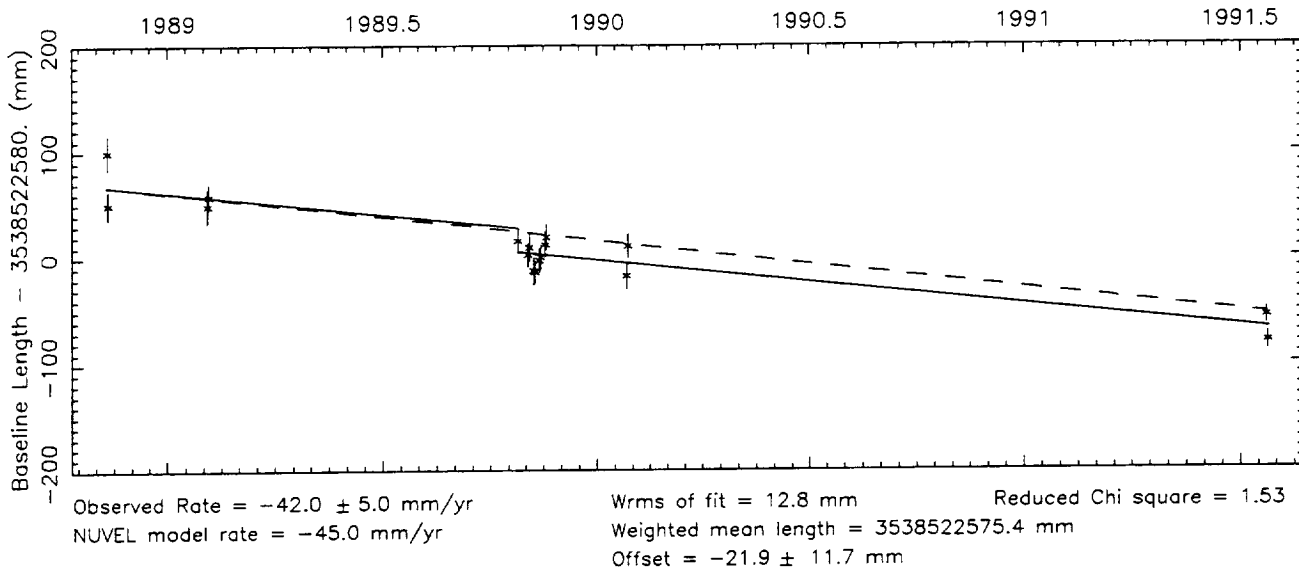
Number of sessions = 8



Vector baseline plots for FORTORDS-GILCREEK

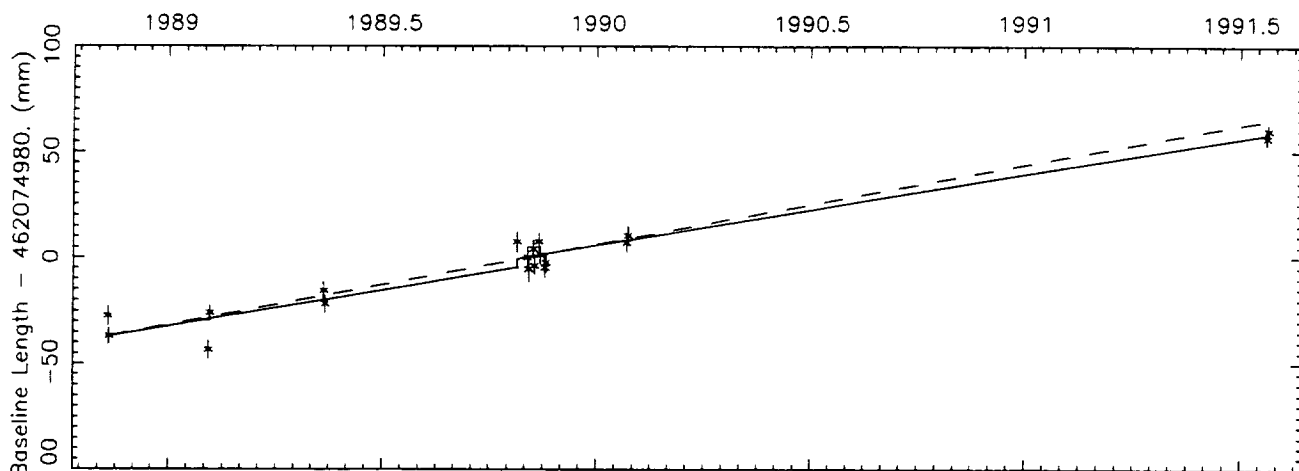
Baseline length = 3539 kilometers

Number of sessions = 17

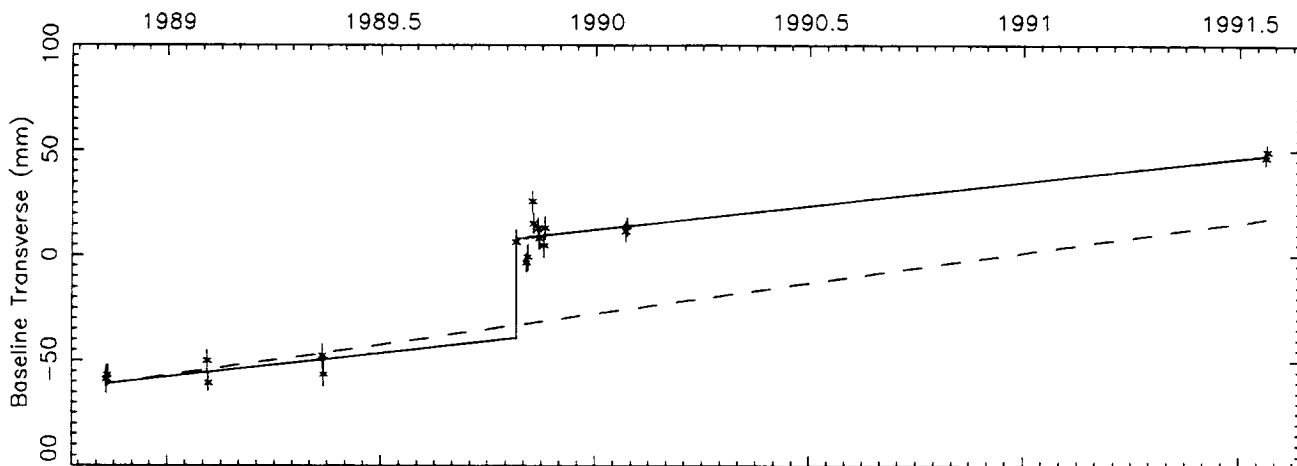


Vector baseline plots for FORTORDS-MOJAVE12

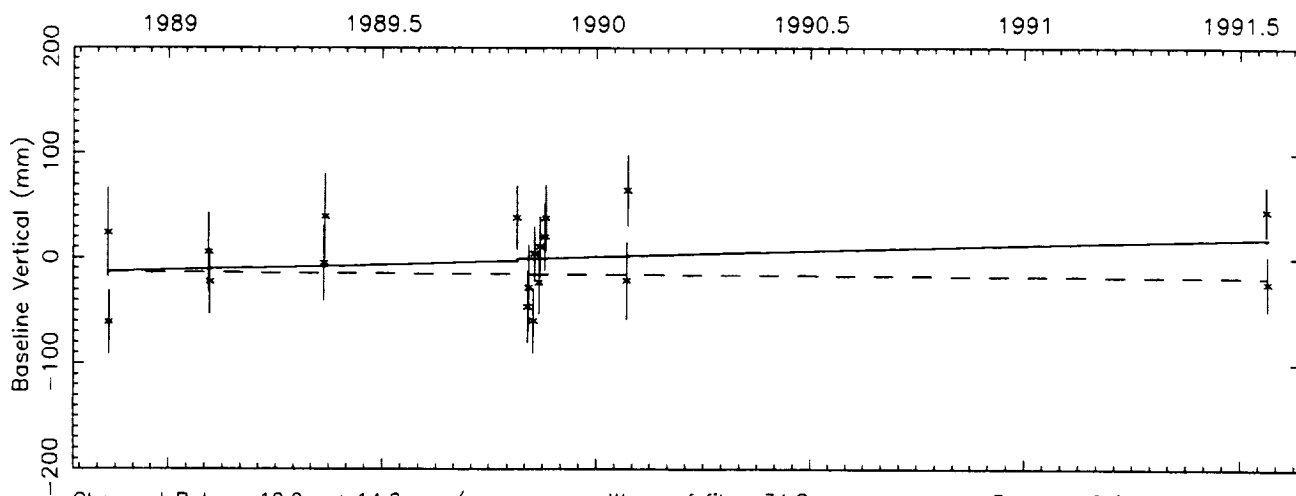
Baseline length = 462 kilometers Number of sessions = 19



Observed Rate = 33.8 ± 2.1 mm/yr Wrms of fit = 5.2 mm Reduced Chi square = 1.92
 NUVEL model rate = 37.8 mm/yr Weighted mean length = 462074982.6 mm
 Offset = 4.1 ± 3.8 mm



Observed Rate = 22.9 ± 2.3 mm/yr Wrms of fit = 6.0 mm Reduced Chi square = 1.74
 NUVEL model rate = 29.2 mm/yr Offset = 47.2 ± 4.5 mm

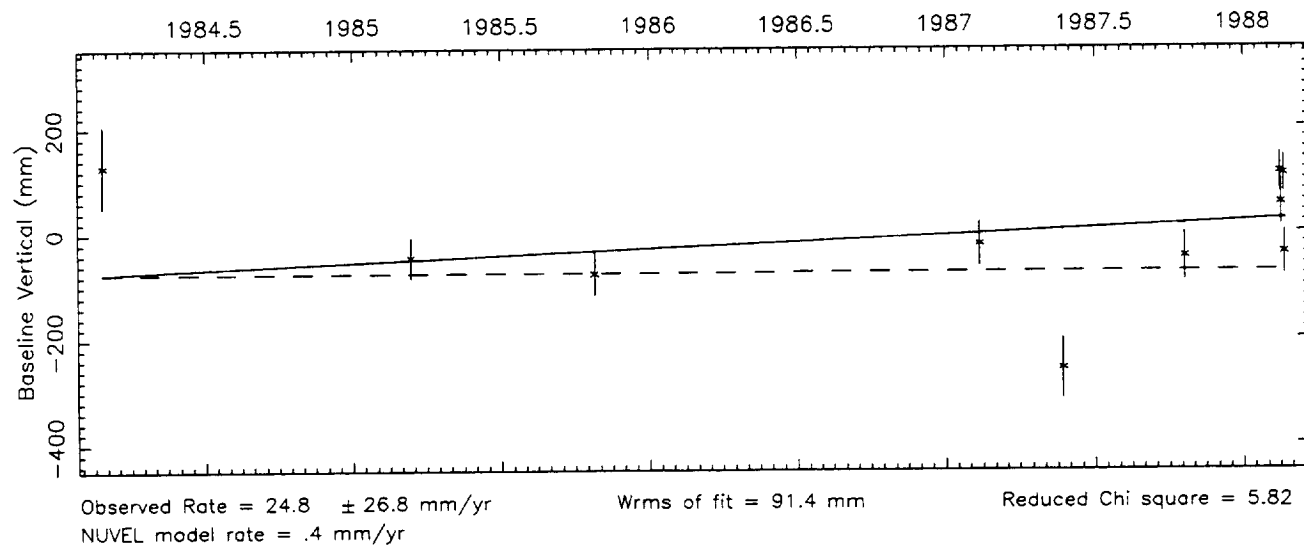
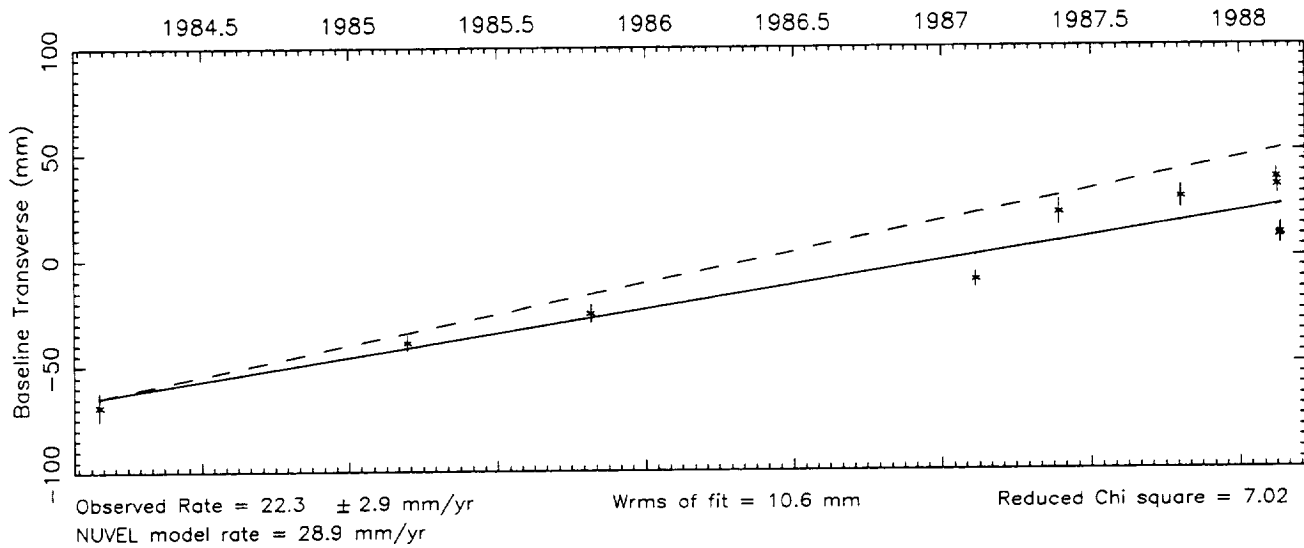
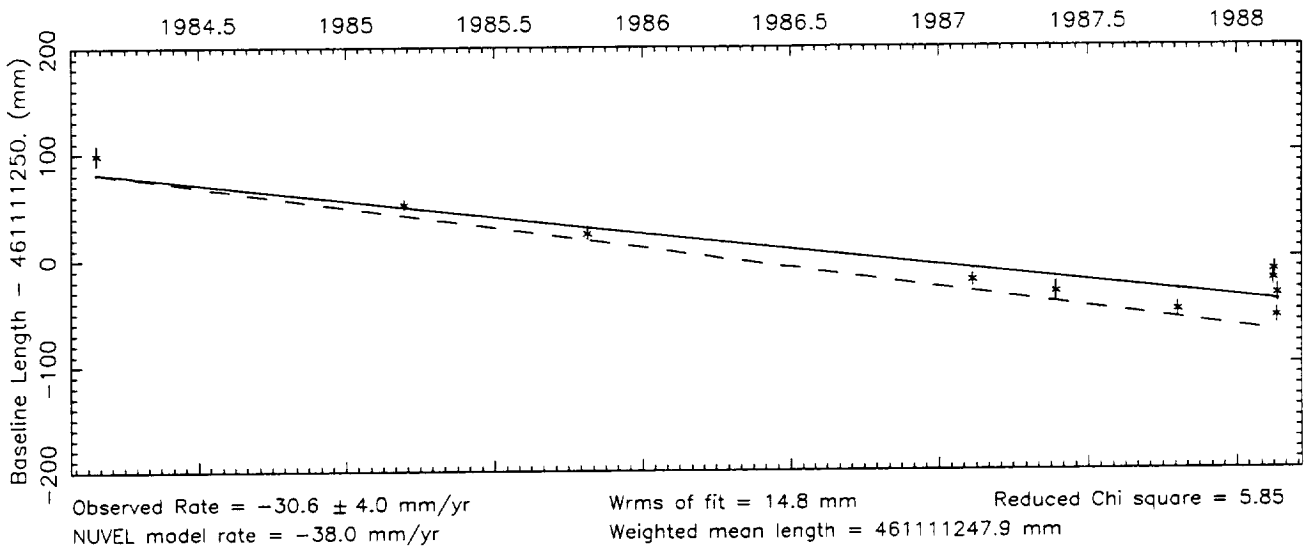


Observed Rate = 10.9 ± 14.2 mm/yr Wrms of fit = 34.8 mm Reduced Chi square = 1.44
 NUVEL model rate = -1.9 mm/yr Offset = 2.1 ± 26.0 mm

Vector baseline plots for FORT ORD-HATCREEK

Baseline length = 461 kilometers

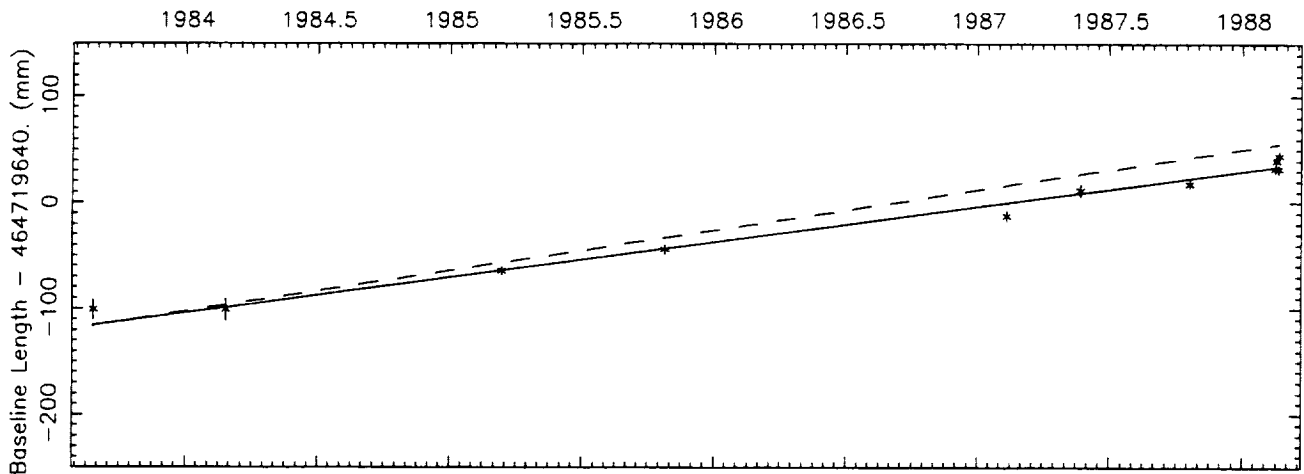
Number of sessions = 10



Vector baseline plots for FORT ORD-MOJAVE12

Baseline length = 465 kilometers

Number of sessions = 11

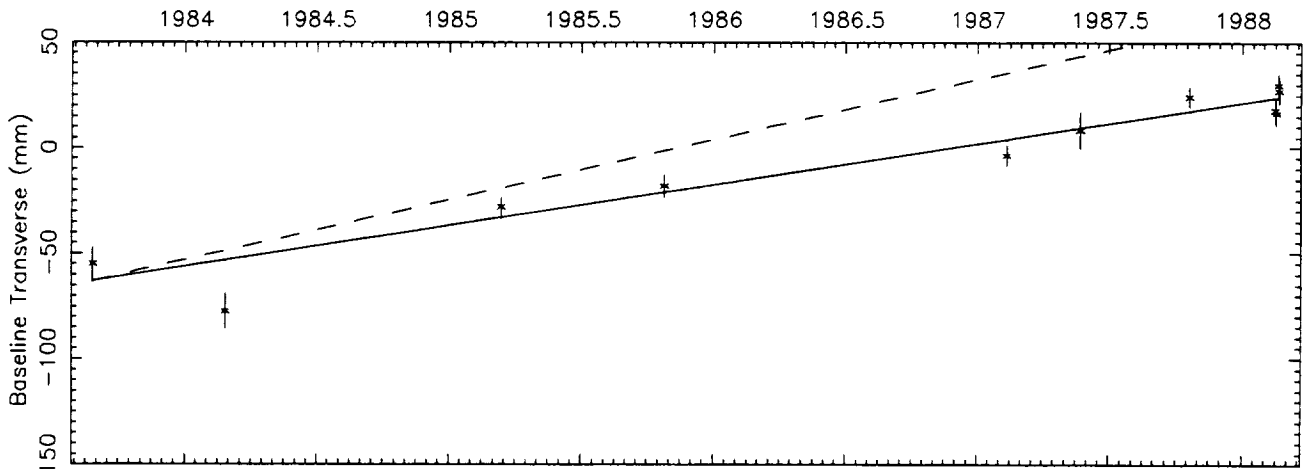


Observed Rate = 33.5 ± 1.6 mm/yr
 NUVEL model rate = 38.3 mm/yr

Wrms of fit = 5.9 mm

Reduced Chi square = 2.16

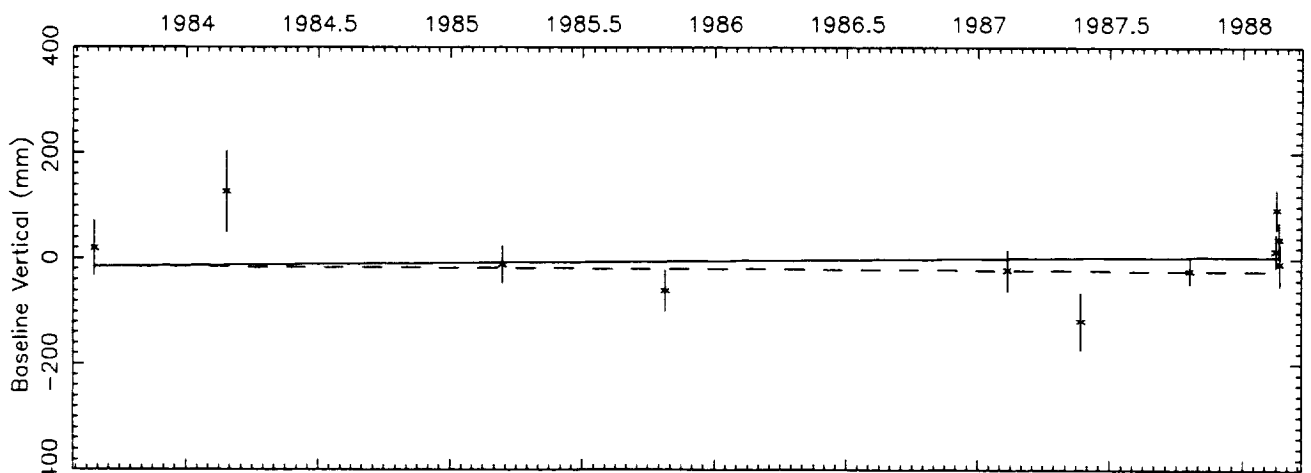
Weighted mean length = 464719642.7 mm



Observed Rate = 19.4 ± 1.8 mm/yr
 NUVEL model rate = 28.5 mm/yr

Wrms of fit = 7.6 mm

Reduced Chi square = 2.29



Observed Rate = 4.3 ± 12.1 mm/yr
 NUVEL model rate = -1.8 mm/yr

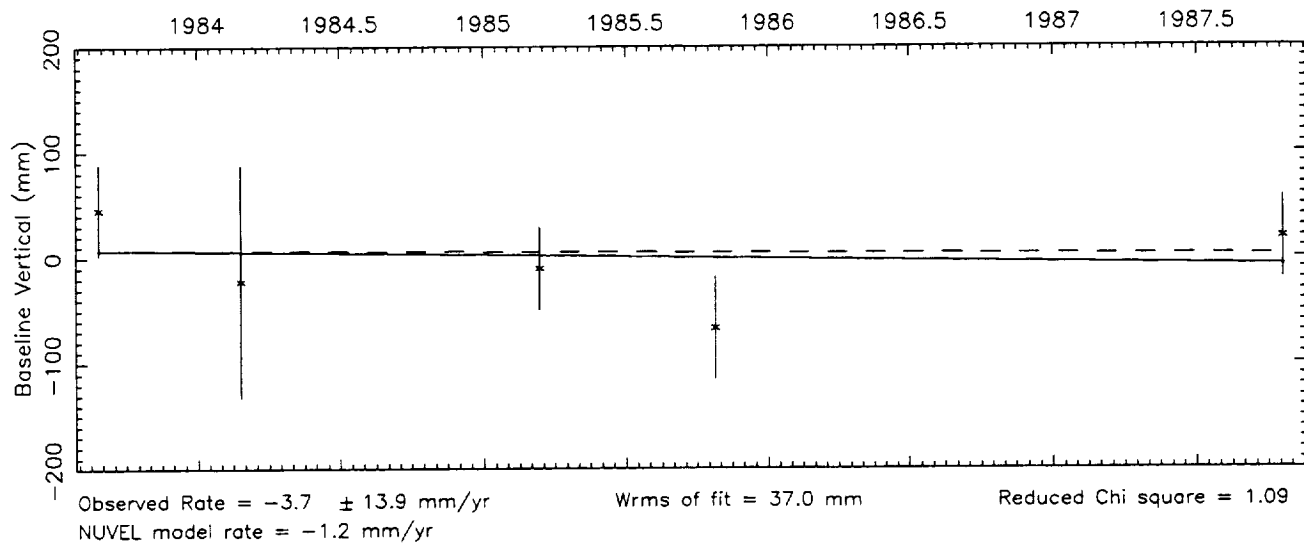
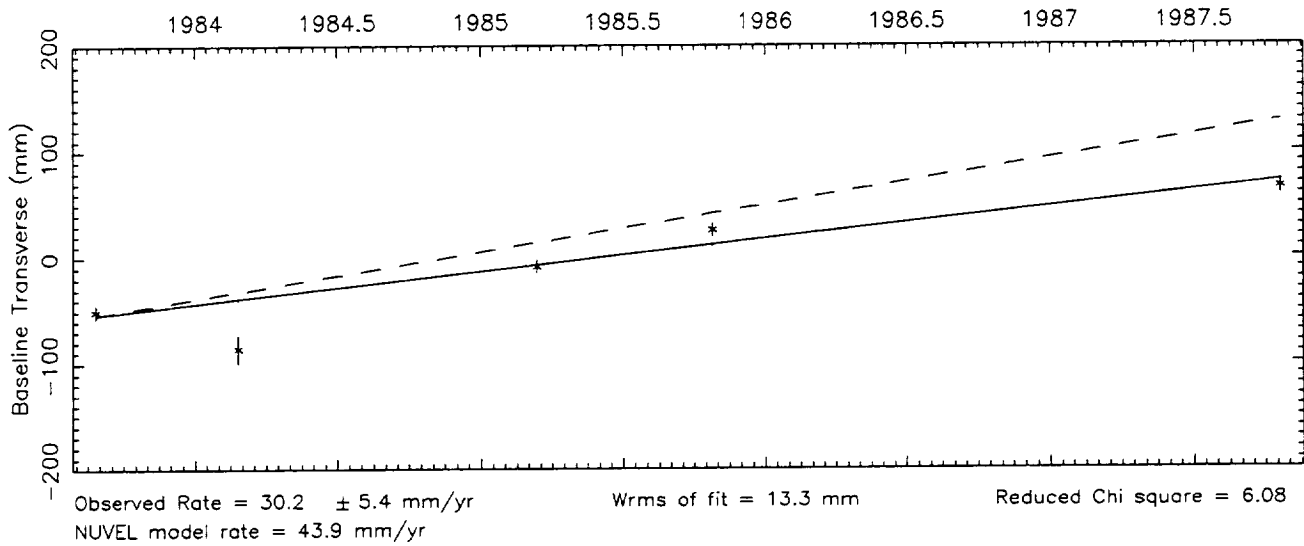
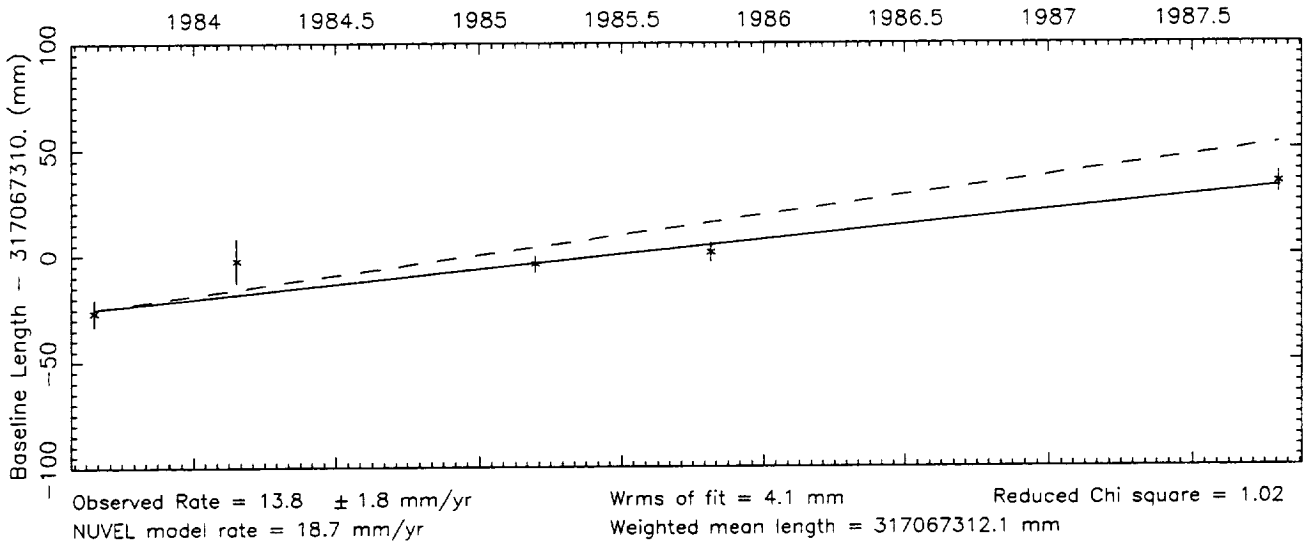
Wrms of fit = 48.2 mm

Reduced Chi square = 2.06

Vector baseline plots for FORT ORD-OVRO 130

Baseline length = 317 kilometers

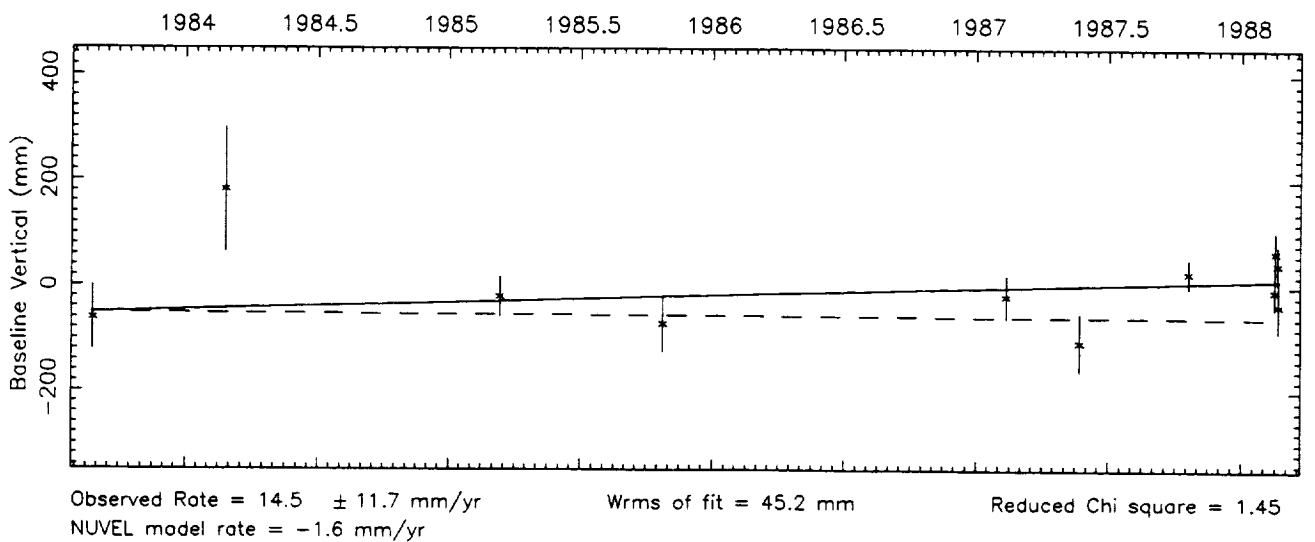
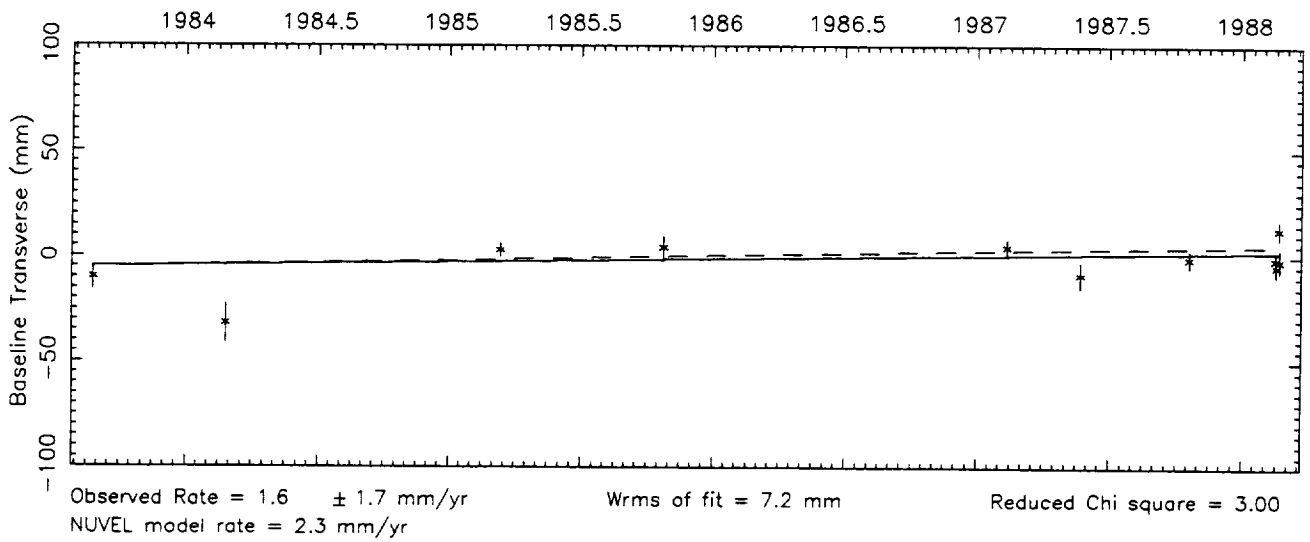
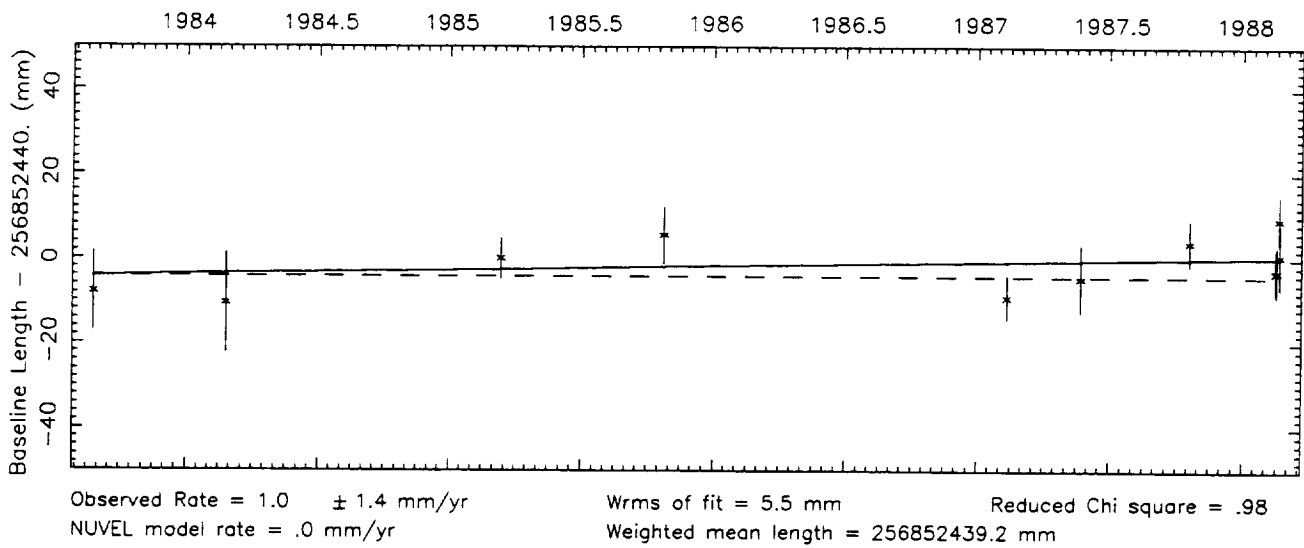
Number of sessions = 5



Vector baseline plots for FORT ORD-VNDNBERG

Baseline length = 257 kilometers

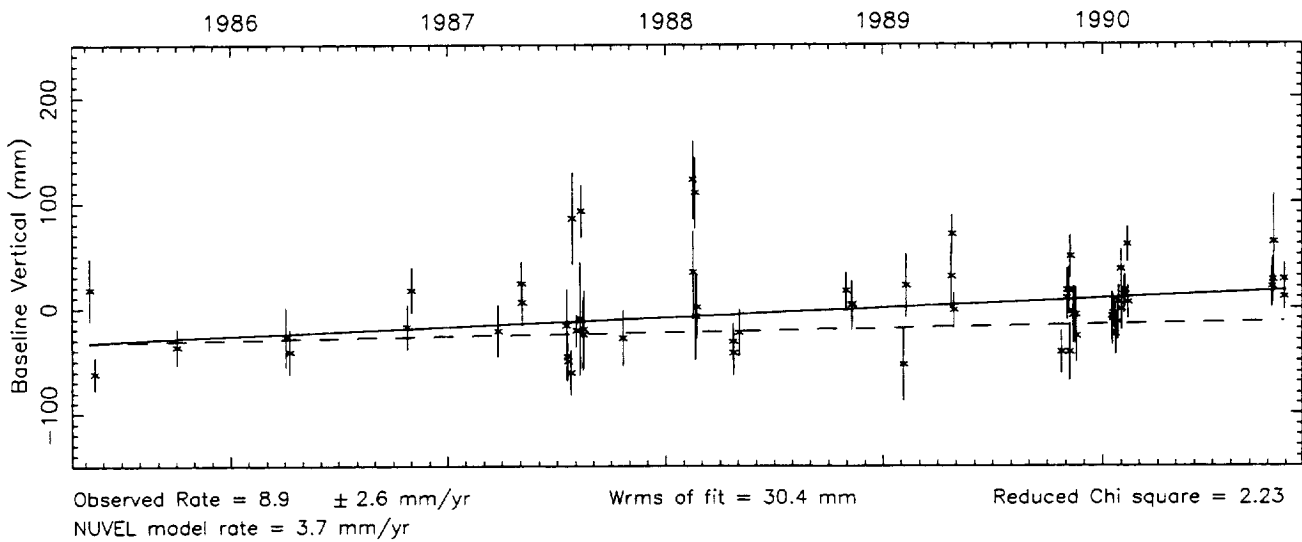
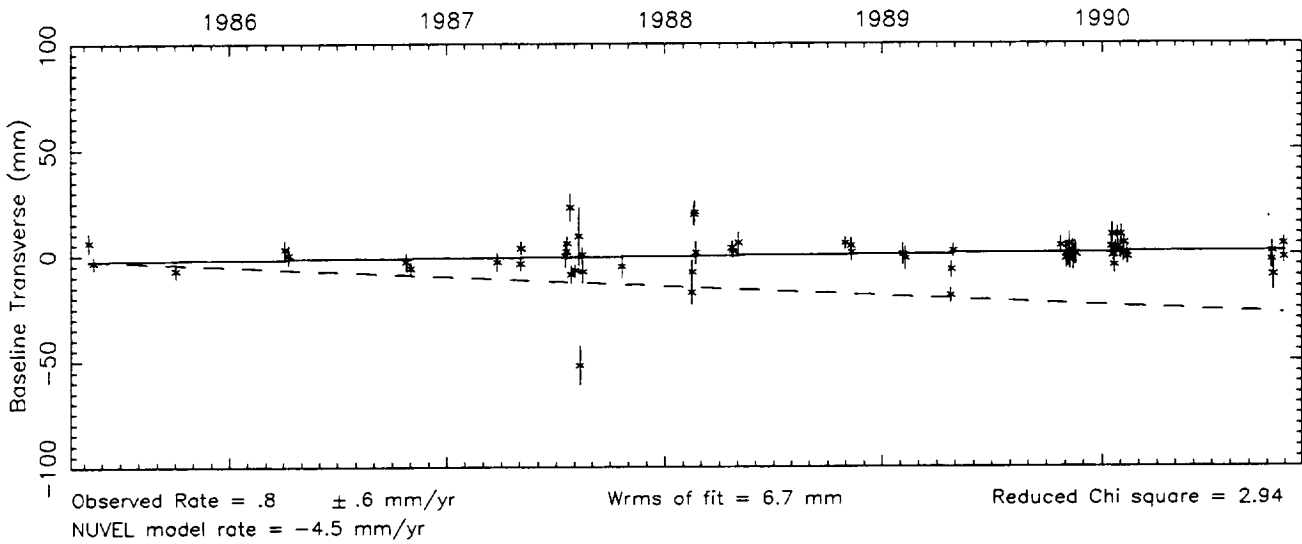
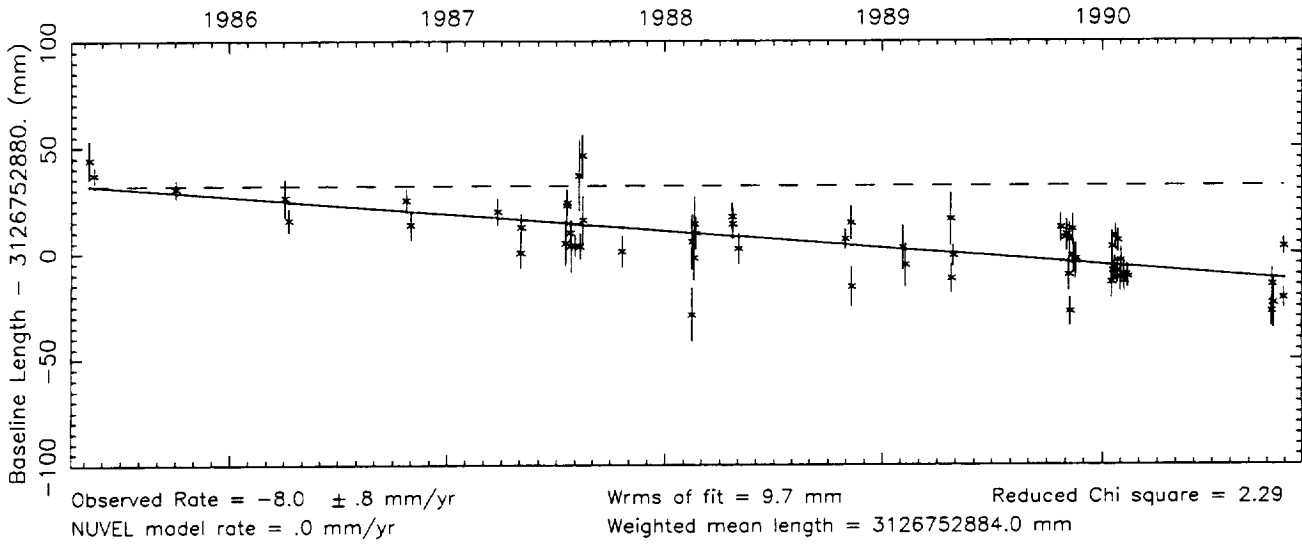
Number of sessions = 11



Vector baseline plots for GILCREEK-HATCREEK

Baseline length = 3127 kilometers

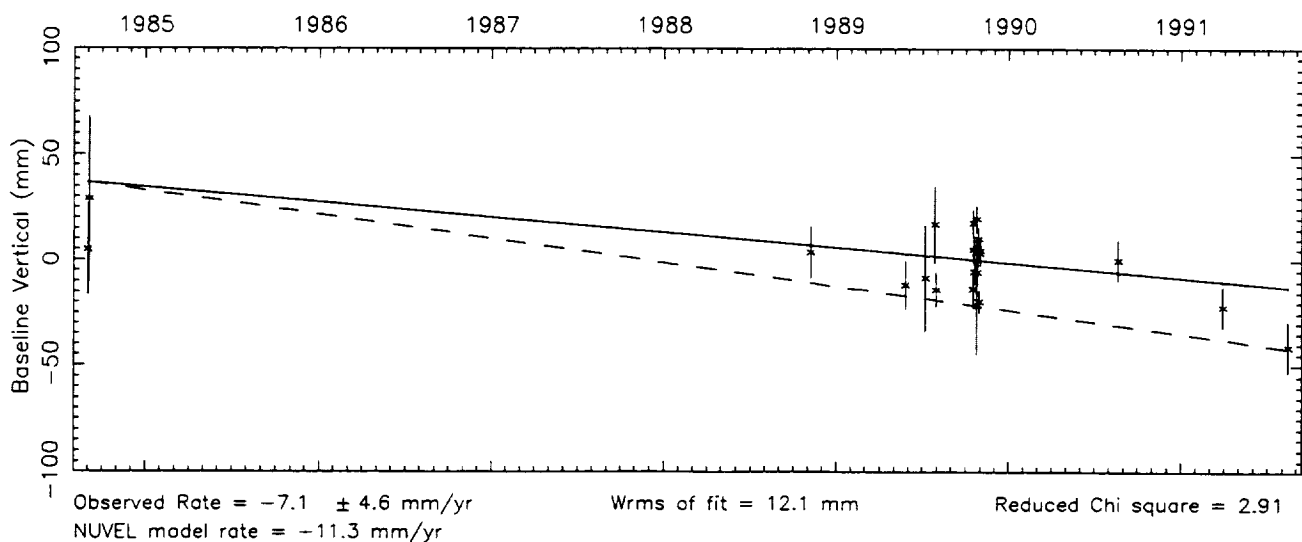
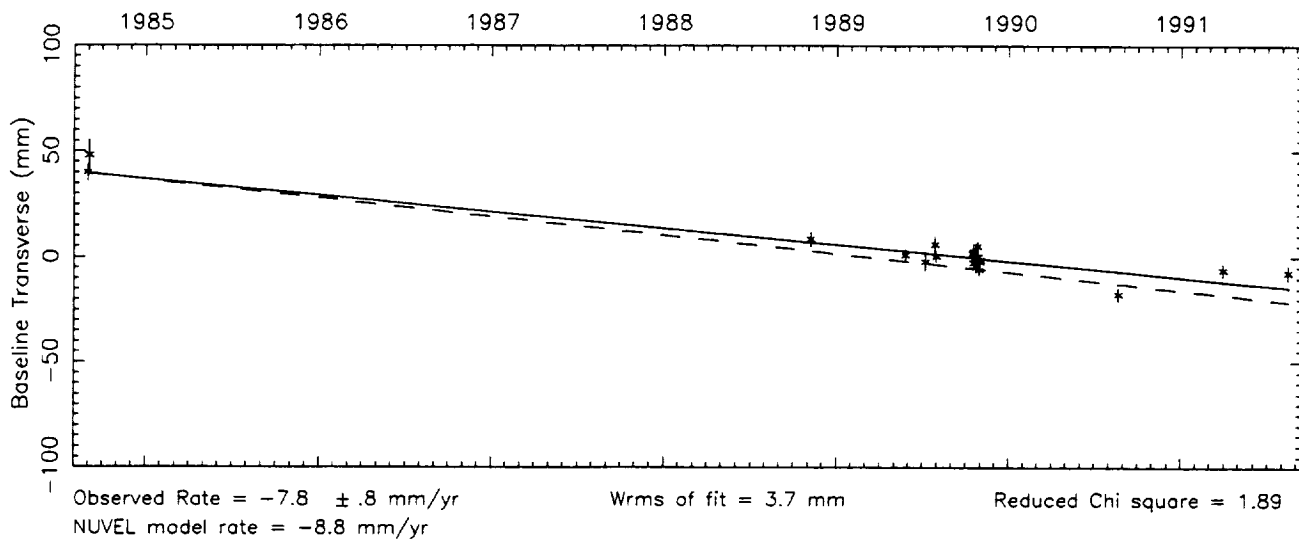
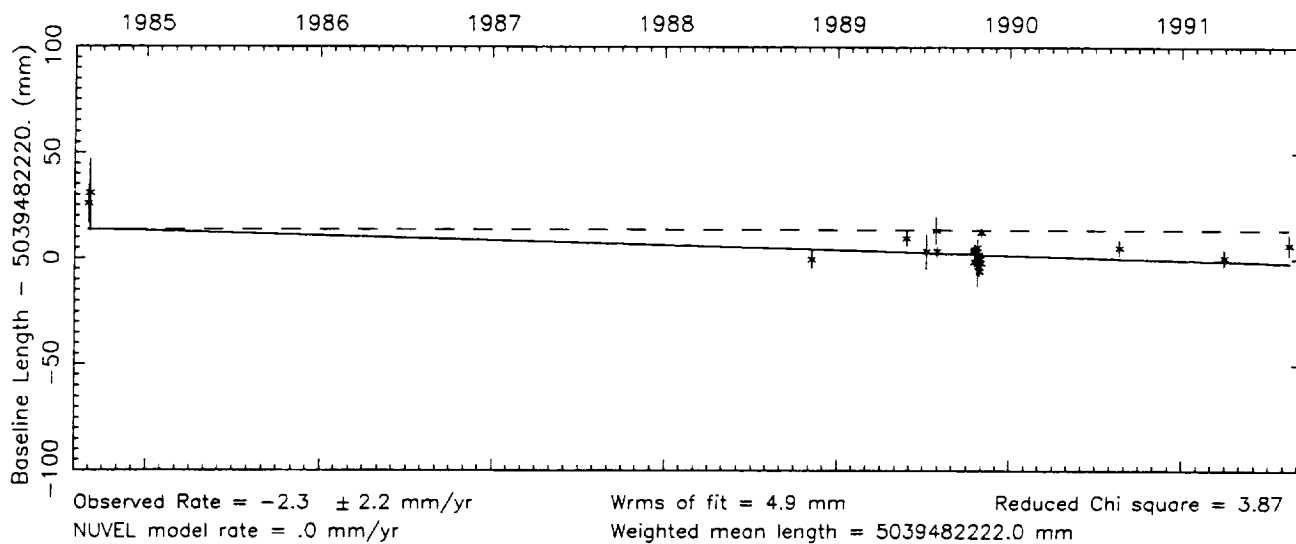
Number of sessions = 65



Vector baseline plots for GILCREEK-HAYSTACK

Baseline length = 5039 kilometers

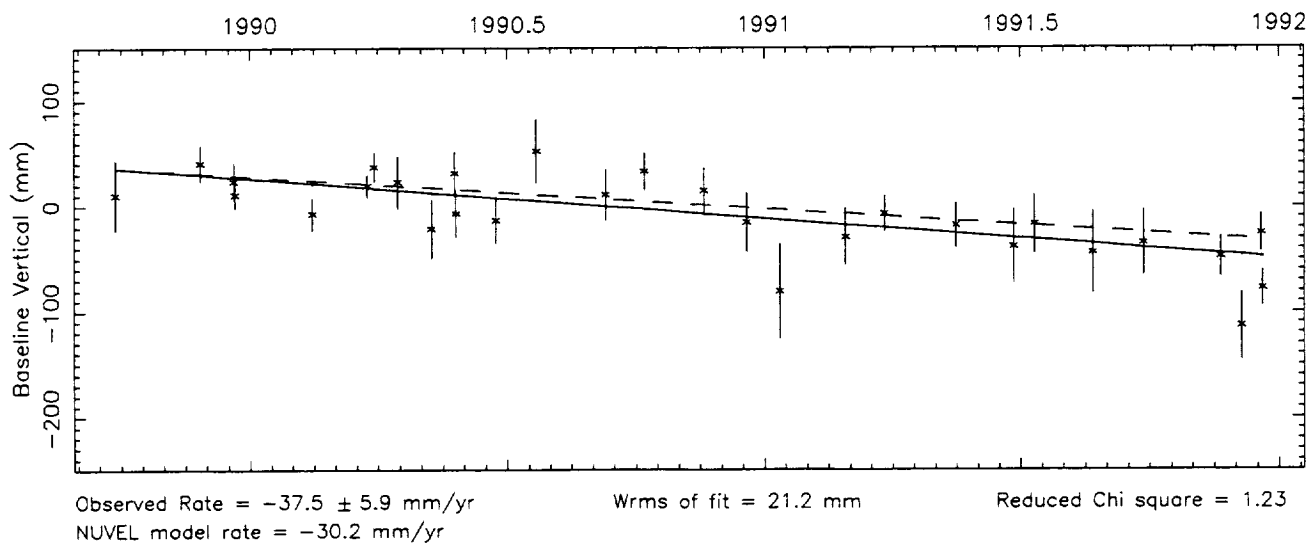
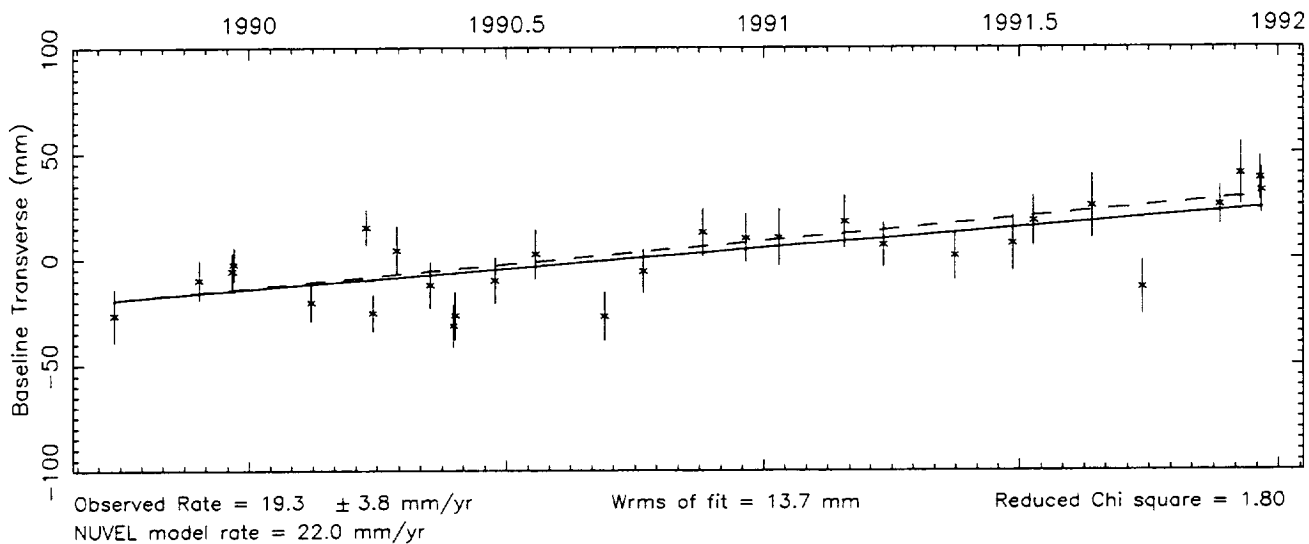
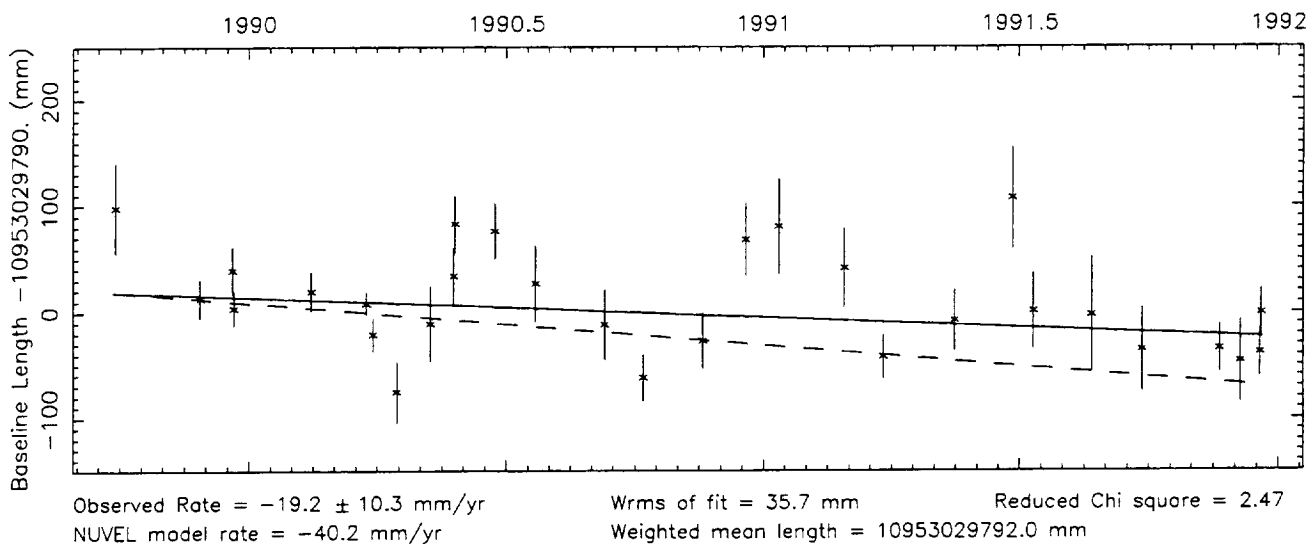
Number of sessions = 23



Vector baseline plots for GILCREEK-HOBART26

Baseline length = 10953 kilometers

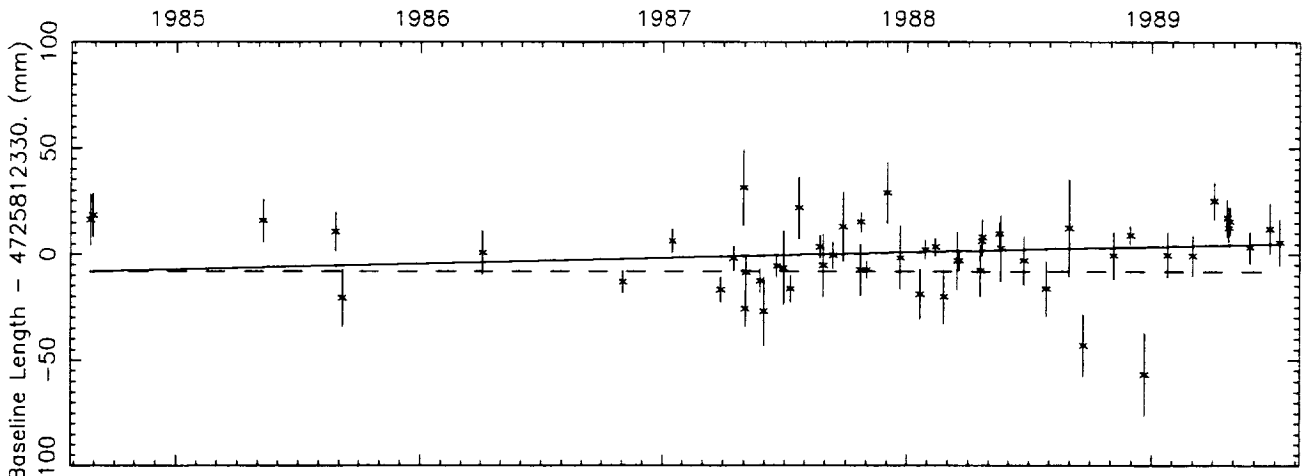
Number of sessions = 29



Vector baseline plots for GILCREEK-HRAS 085

Baseline length = 4726 kilometers

Number of sessions = 55

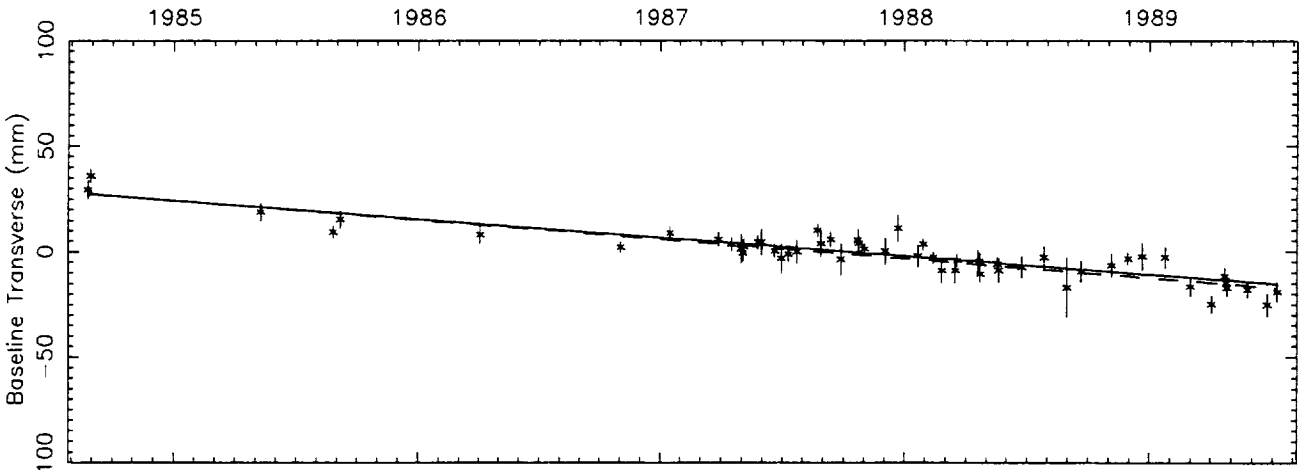


Observed Rate = 2.7 ± 1.7 mm/yr
 NUVEL model rate = $.0$ mm/yr

Wrms of fit = 11.6 mm

Reduced Chi square = 2.43

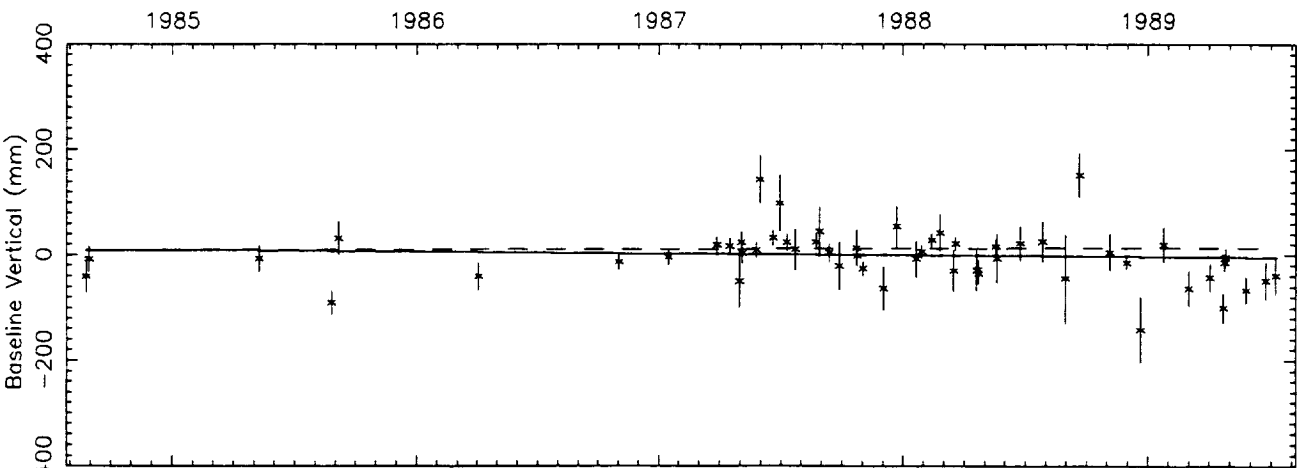
Weighted mean length = 4725812330.6 mm



Observed Rate = $-8.8 \pm .6$ mm/yr
 NUVEL model rate = -9.2 mm/yr

Wrms of fit = 4.9 mm

Reduced Chi square = 1.63



Observed Rate = -2.8 ± 4.6 mm/yr
 NUVEL model rate = 1.0 mm/yr

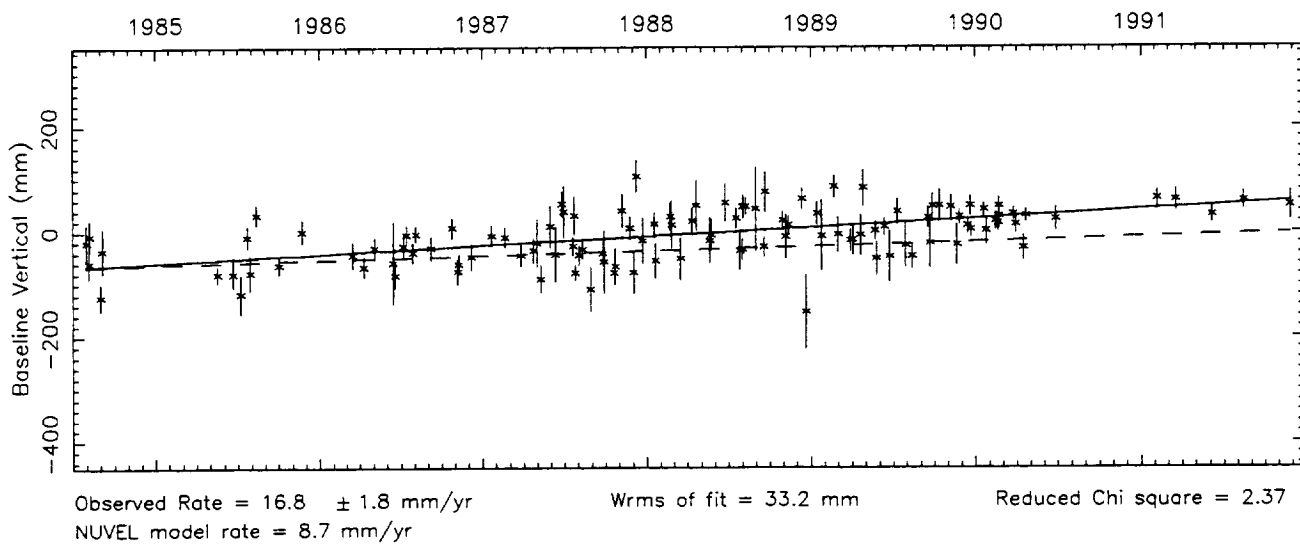
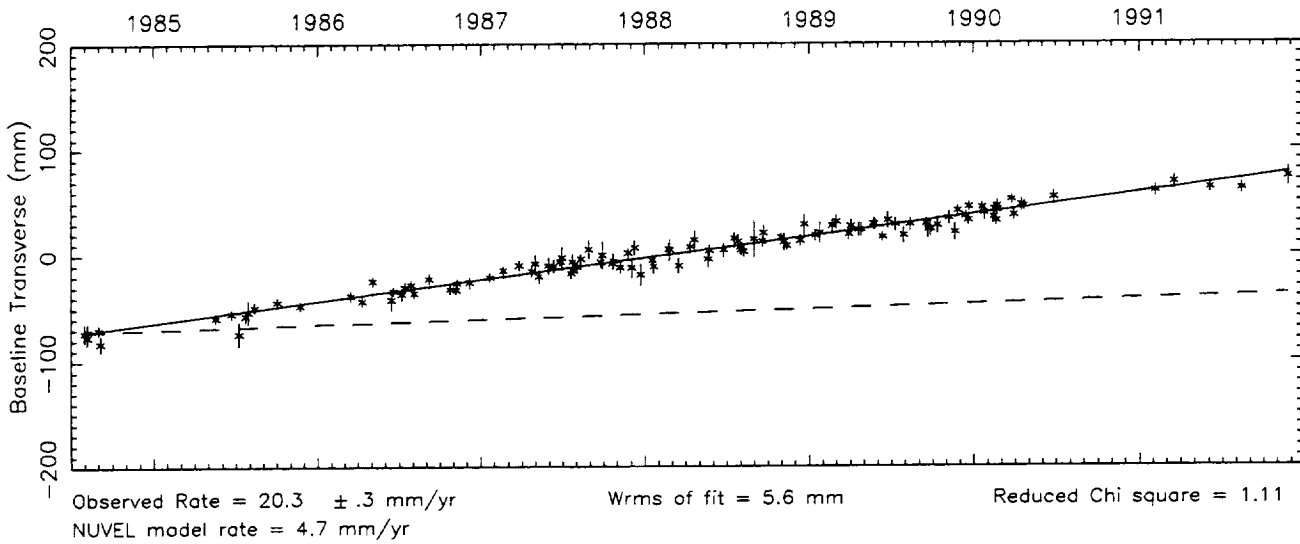
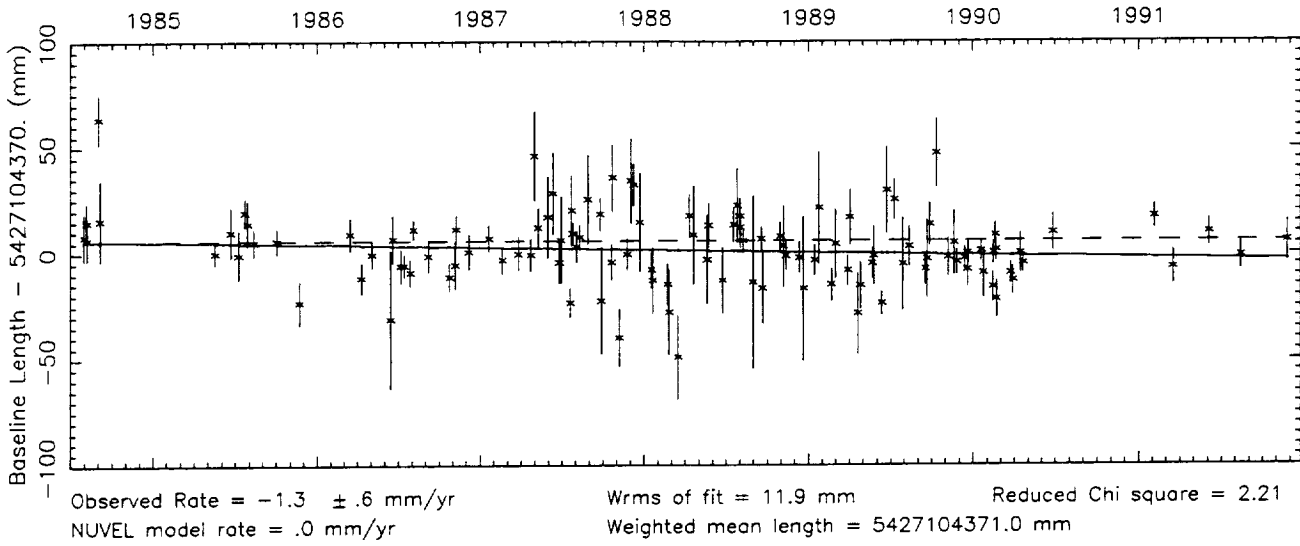
Wrms of fit = 31.7 mm

Reduced Chi square = 2.50

Vector baseline plots for GILCREEK-KASHIMA

Baseline length = 5427 kilometers

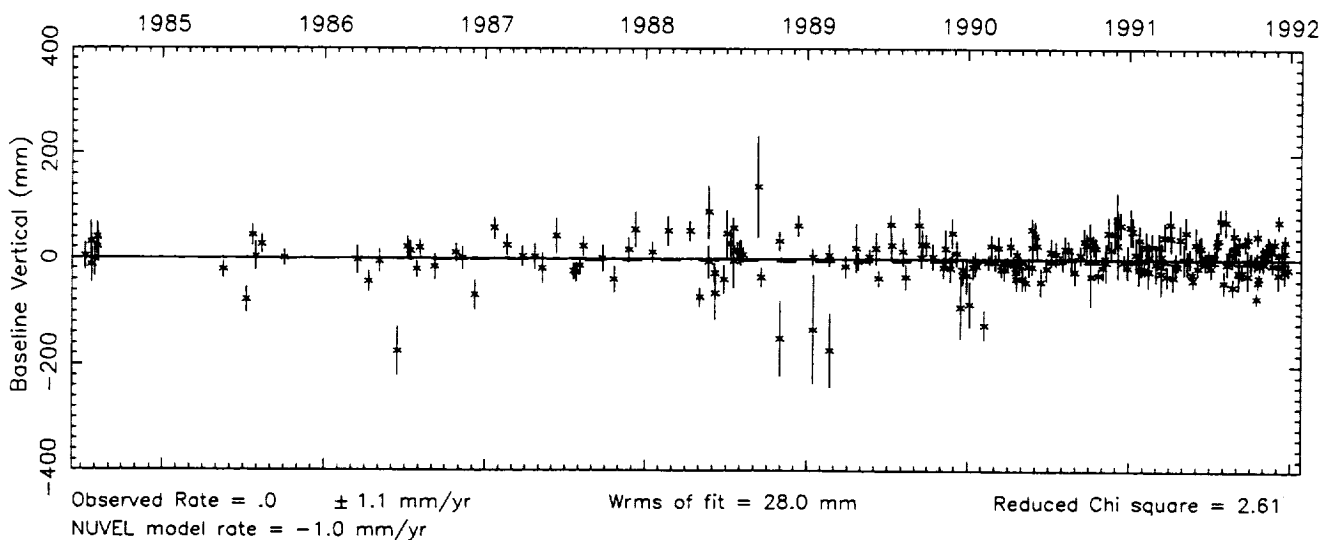
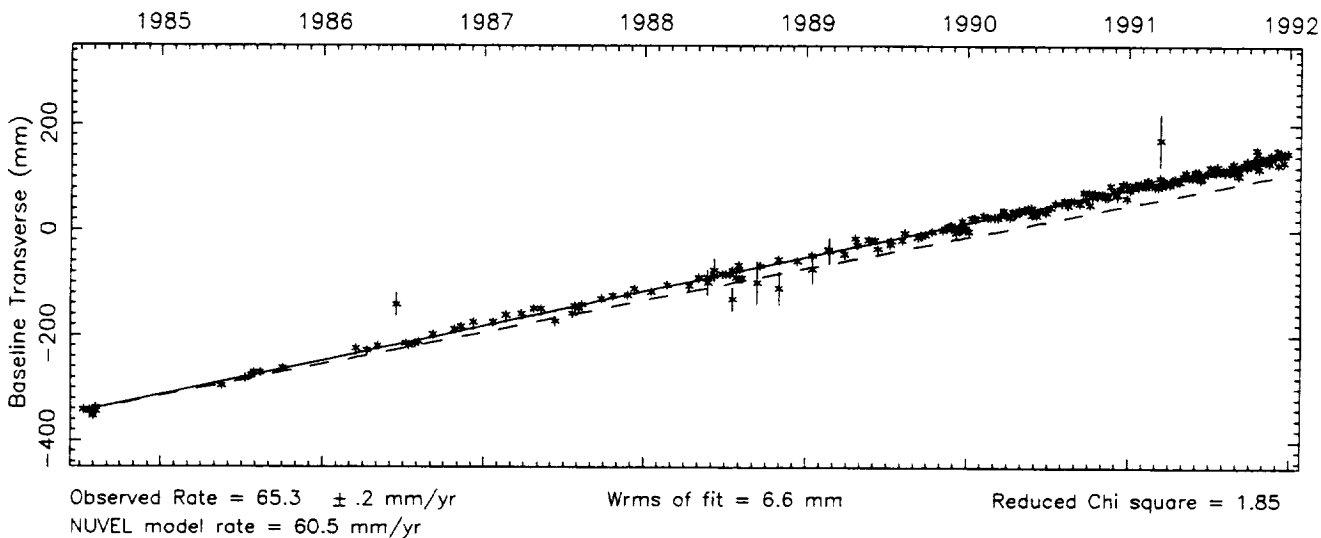
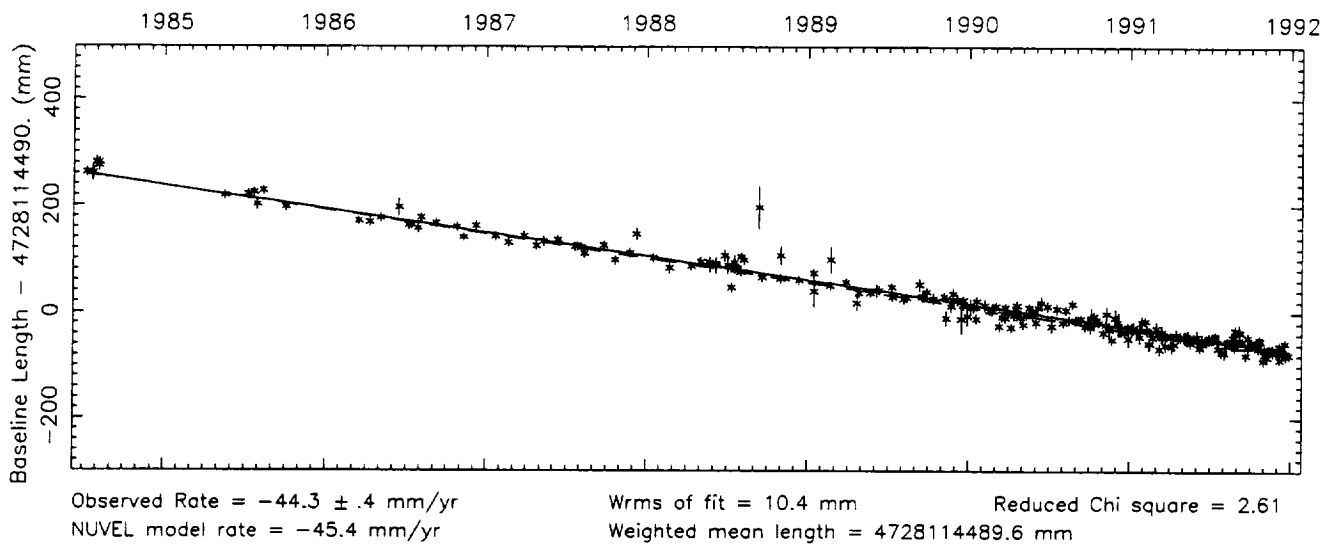
Number of sessions = 117



Vector baseline plots for GILCREEK-KAUAI

Baseline length = 4728 kilometers

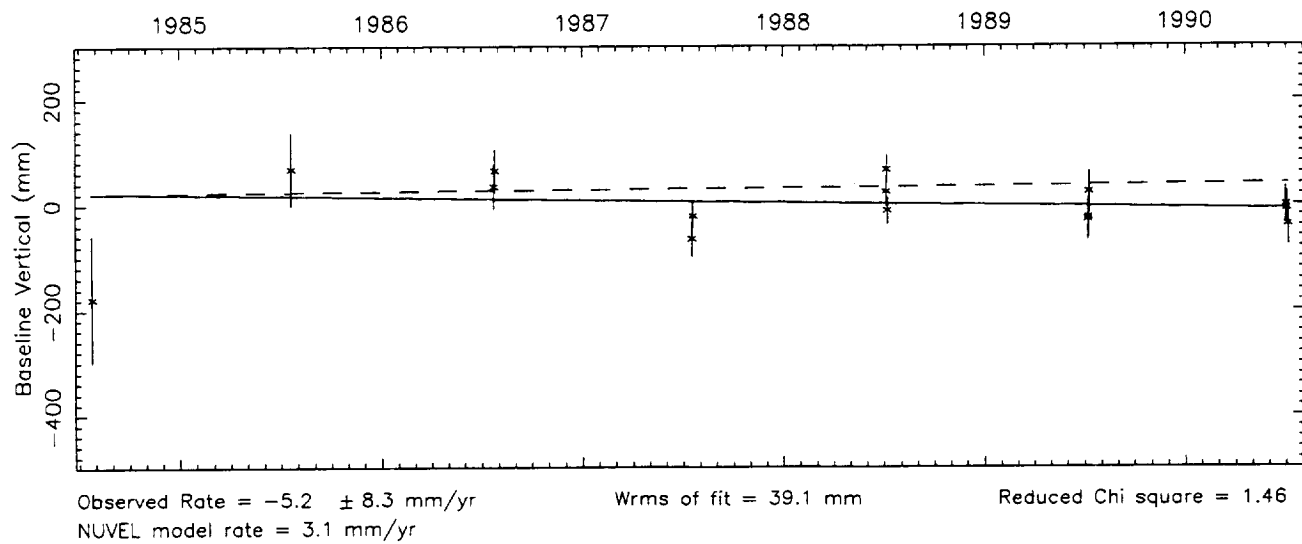
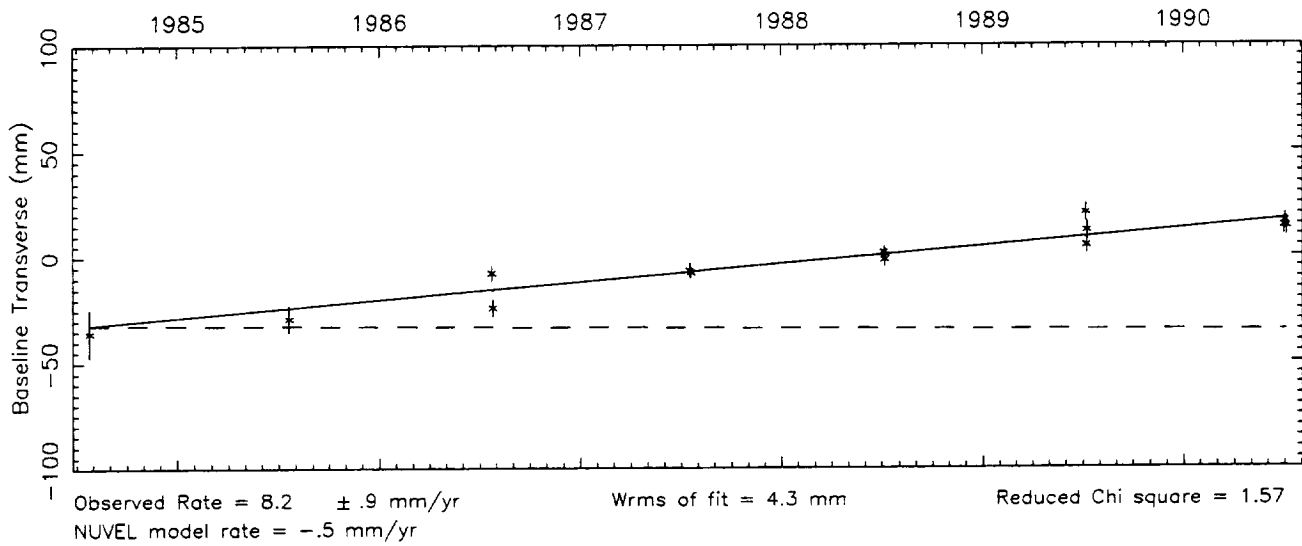
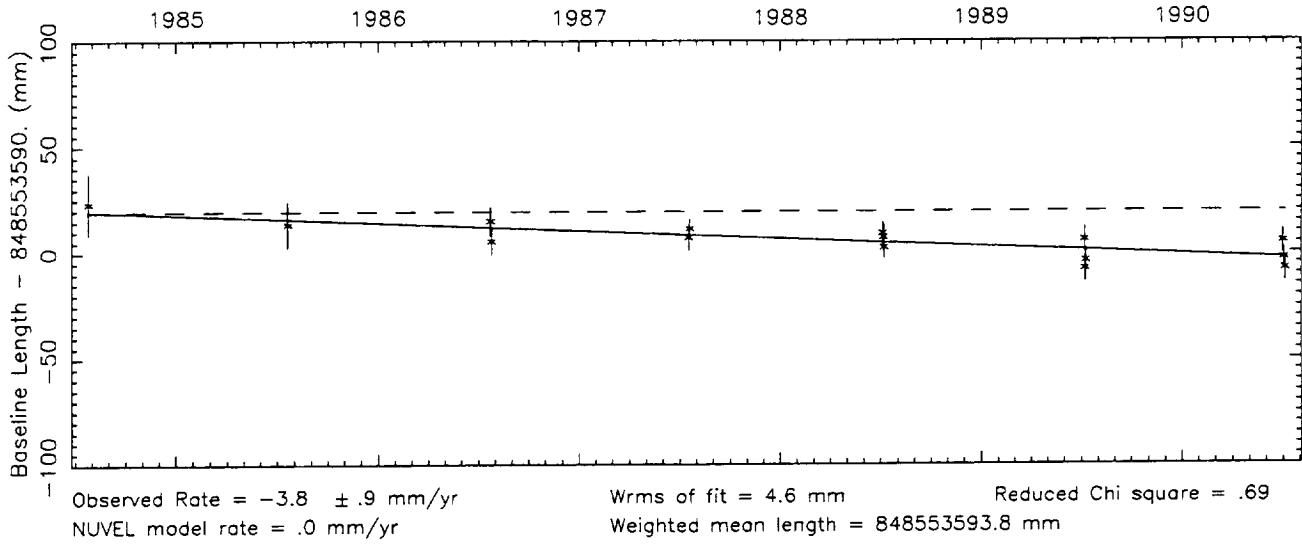
Number of sessions = 236



Vector baseline plots for GILCREEK-KODIAK

Baseline length = 849 kilometers

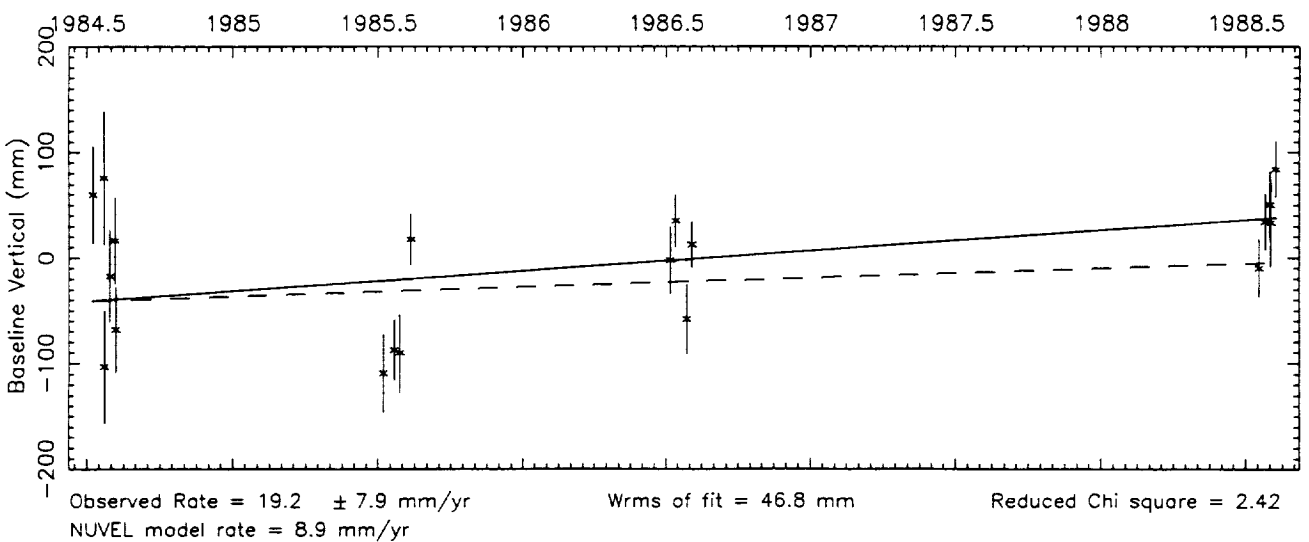
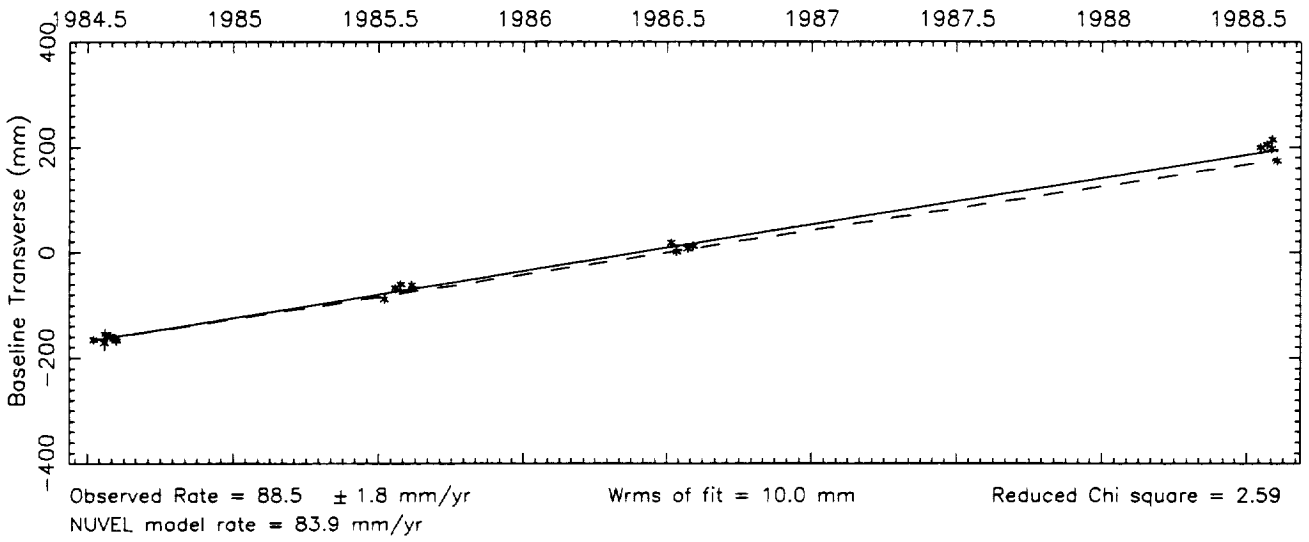
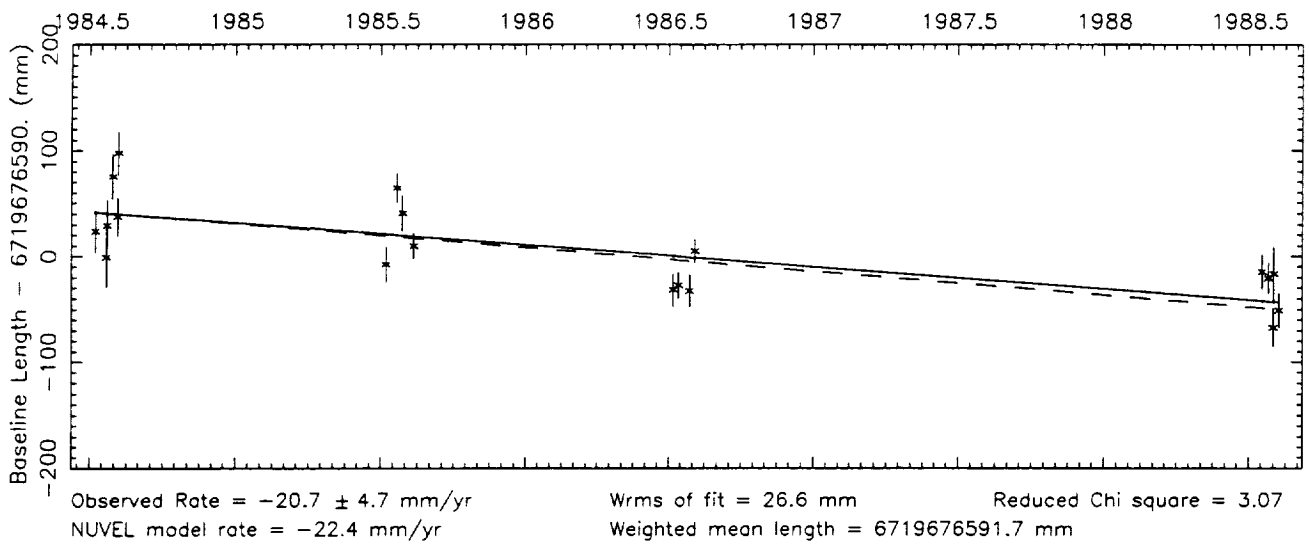
Number of sessions = 15



Vector baseline plots for GILCREEK-KWAJAL26

Baseline length = 6720 kilometers

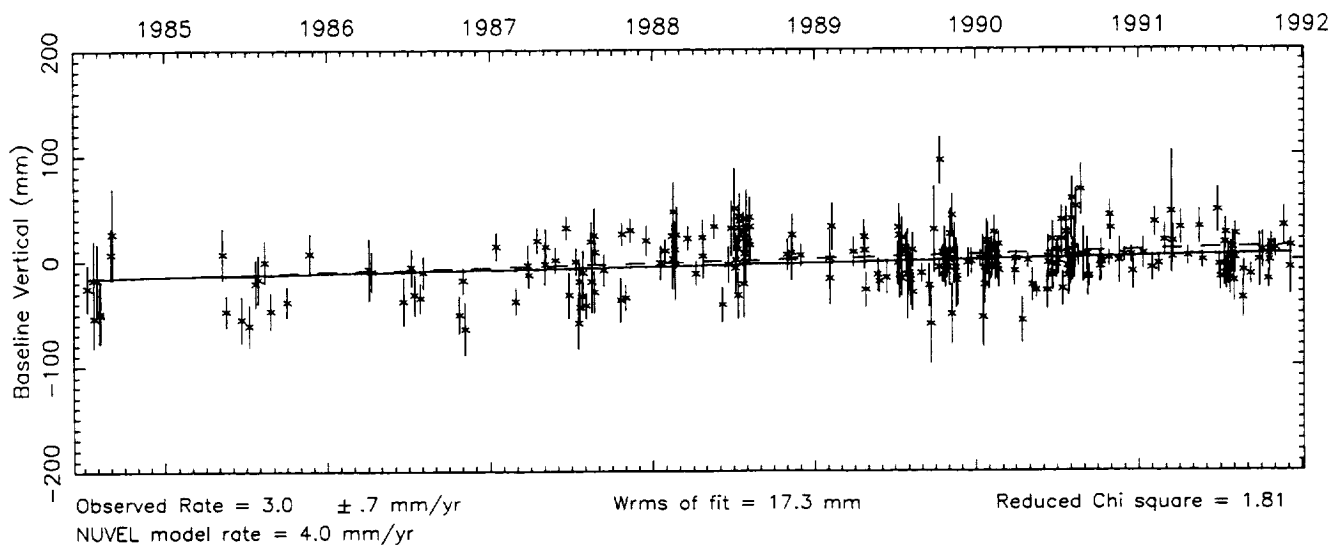
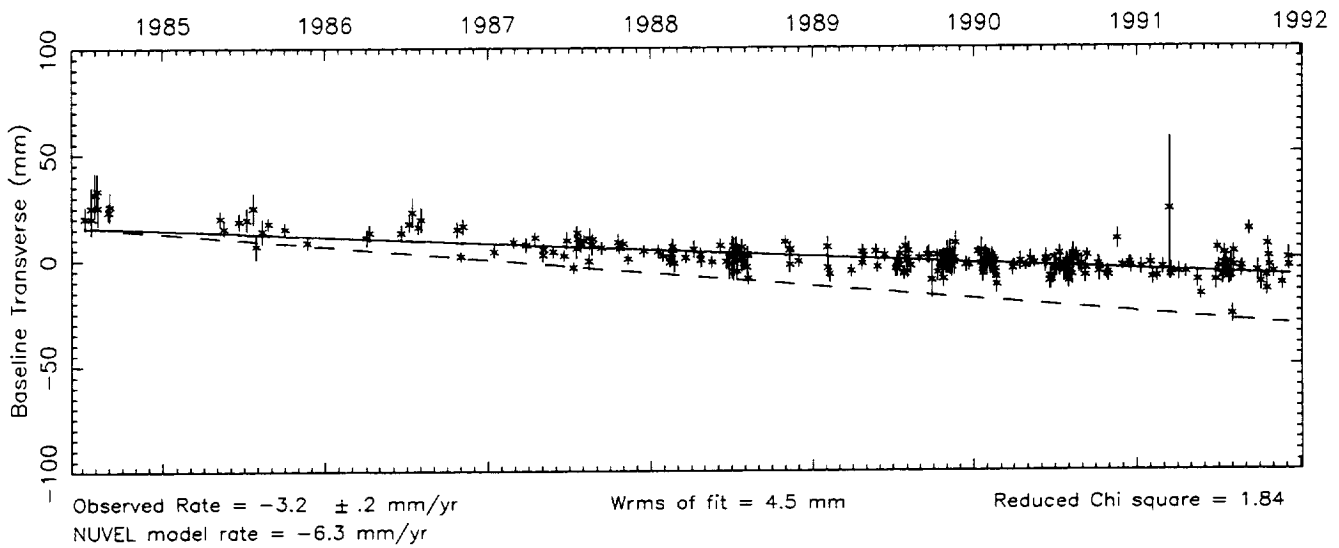
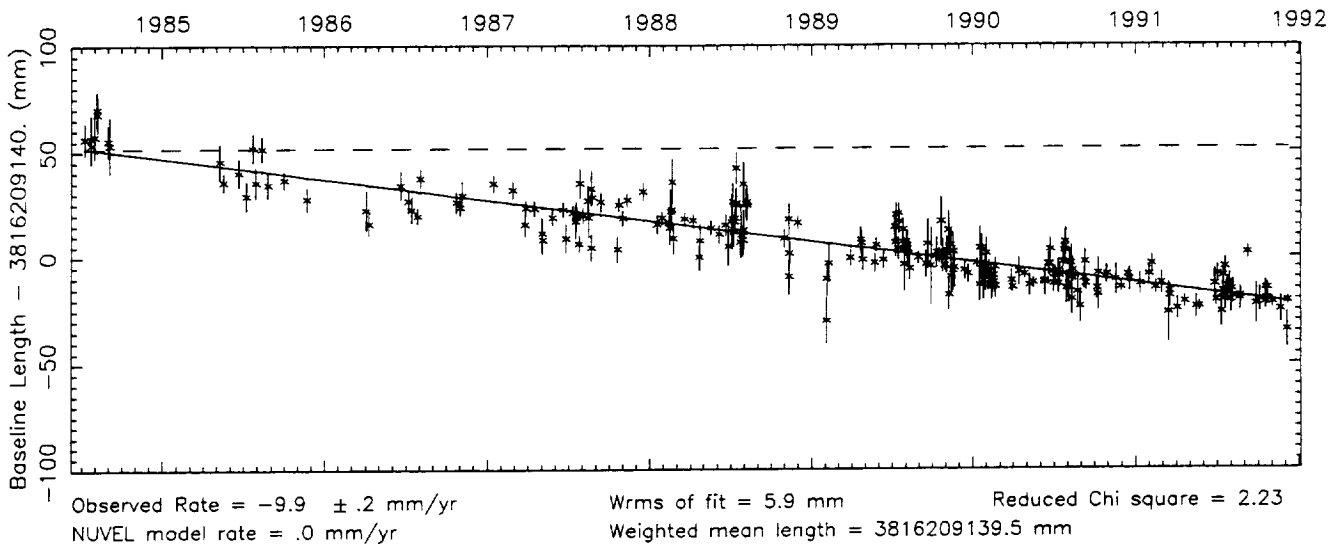
Number of sessions = 19



Vector baseline plots for GILCREEK-MOJAVE12

Baseline length = 3816 kilometers

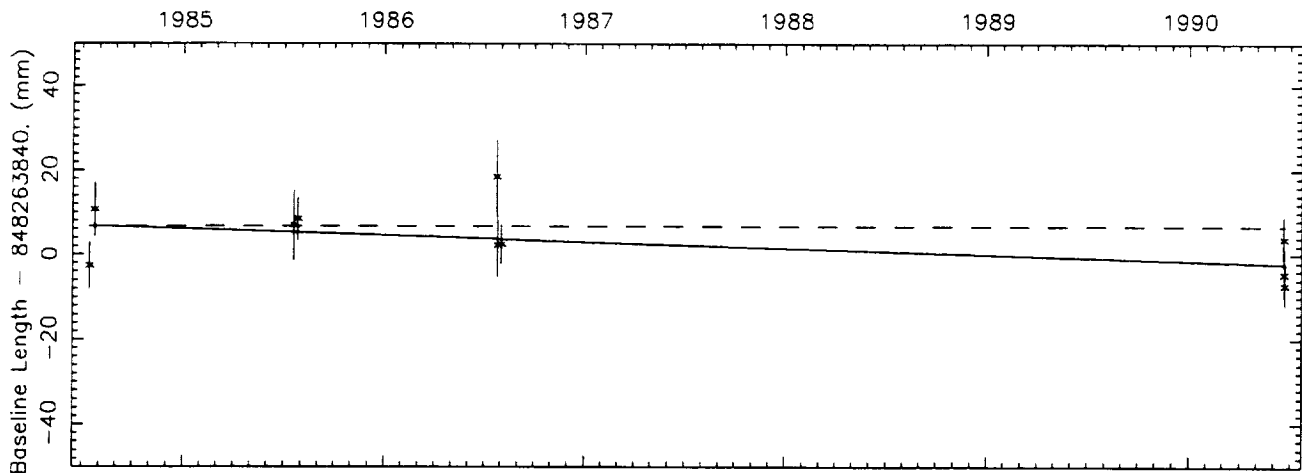
Number of sessions = 266



Vector baseline plots for GILCREEK-NOME

Baseline length = 848 kilometers

Number of sessions = 10

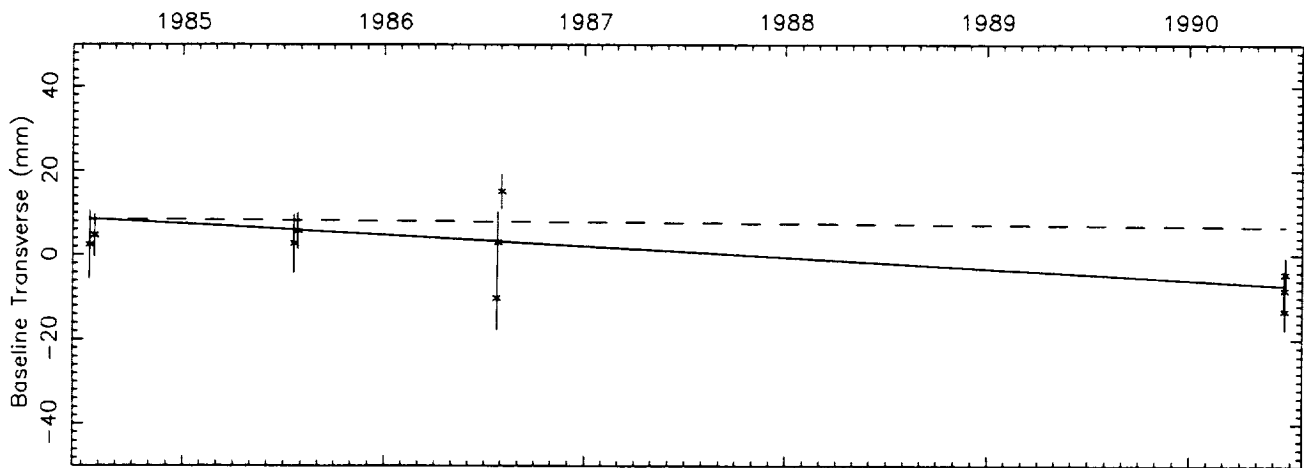


Observed Rate = $-1.5 \pm .8$ mm/yr
 NUVEL model rate = $.0$ mm/yr

Wrms of fit = 5.5 mm

Reduced Chi square = 1.15

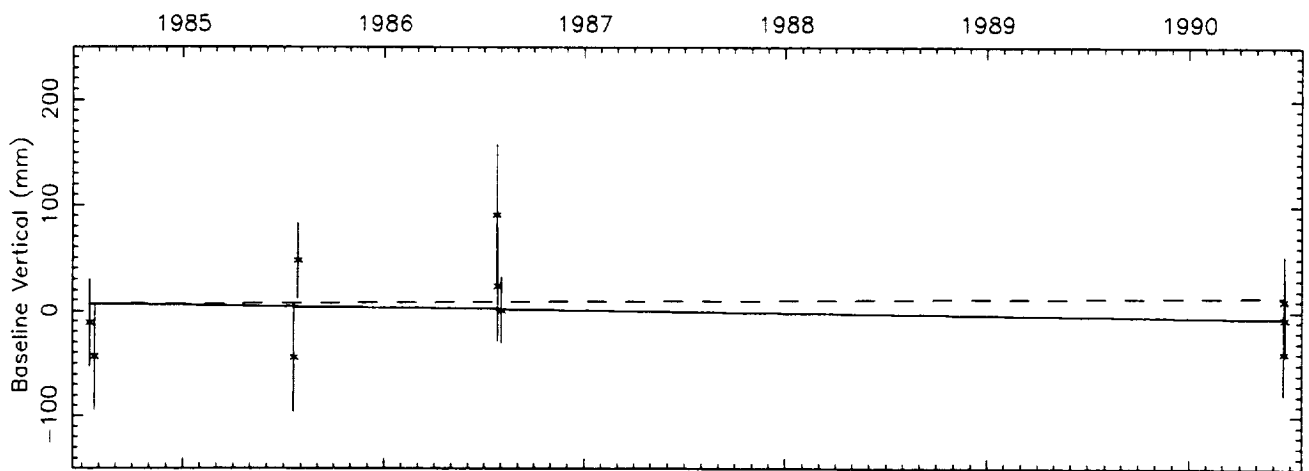
Weighted mean length = 848263842.3 mm



Observed Rate = $-2.7 \pm .9$ mm/yr
 NUVEL model rate = $-.3$ mm/yr

Wrms of fit = 6.3 mm

Reduced Chi square = 1.94



Observed Rate = -2.2 ± 5.0 mm/yr
 NUVEL model rate = 1.2 mm/yr

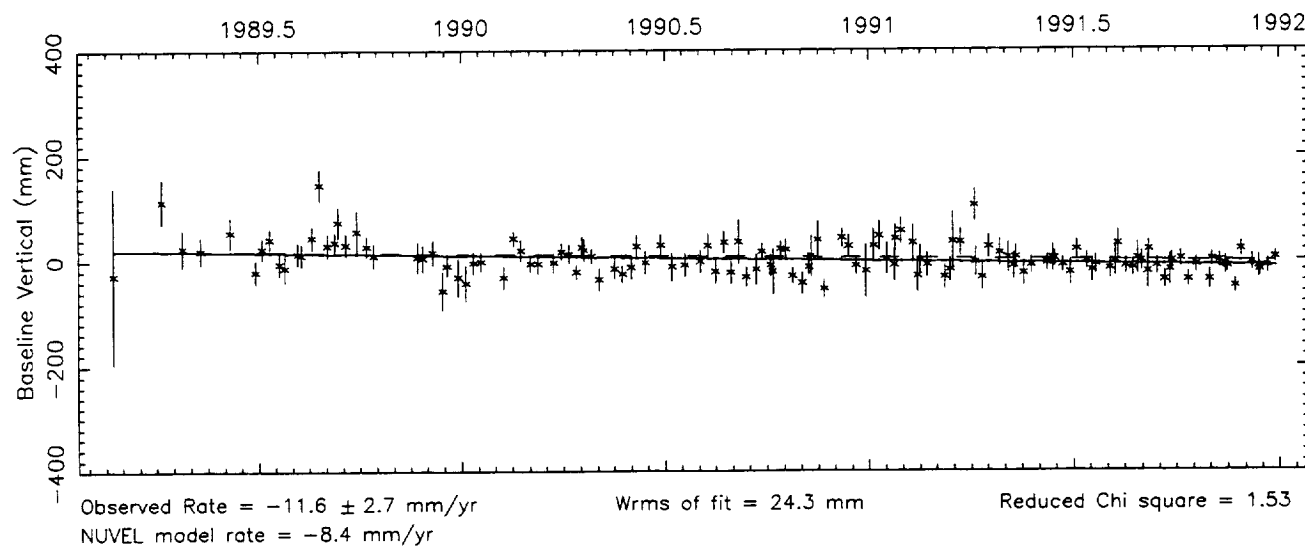
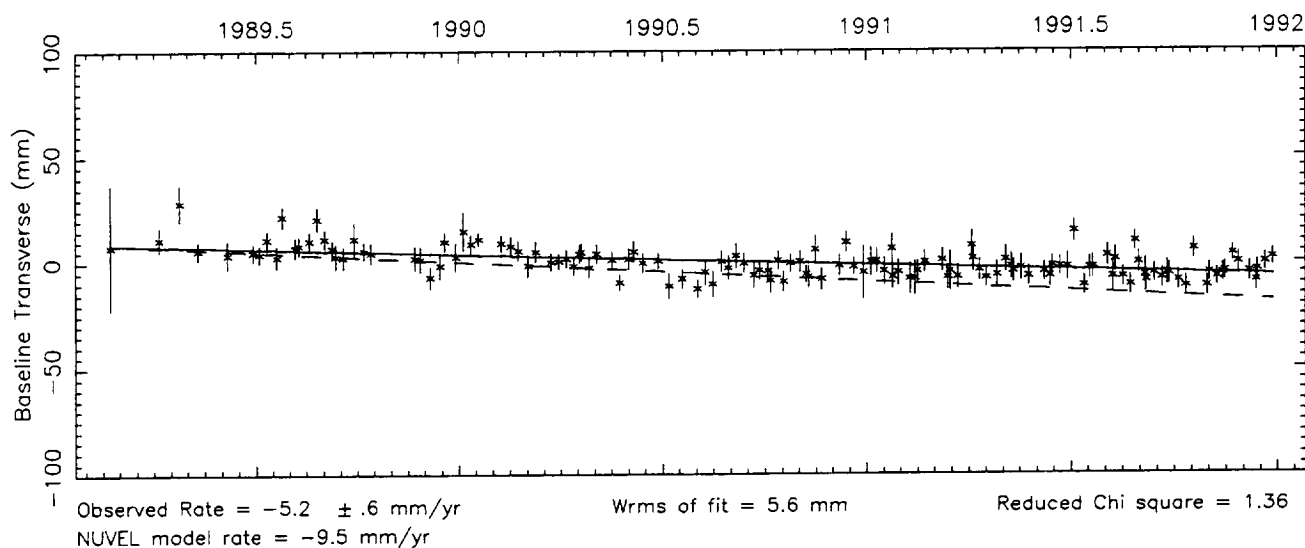
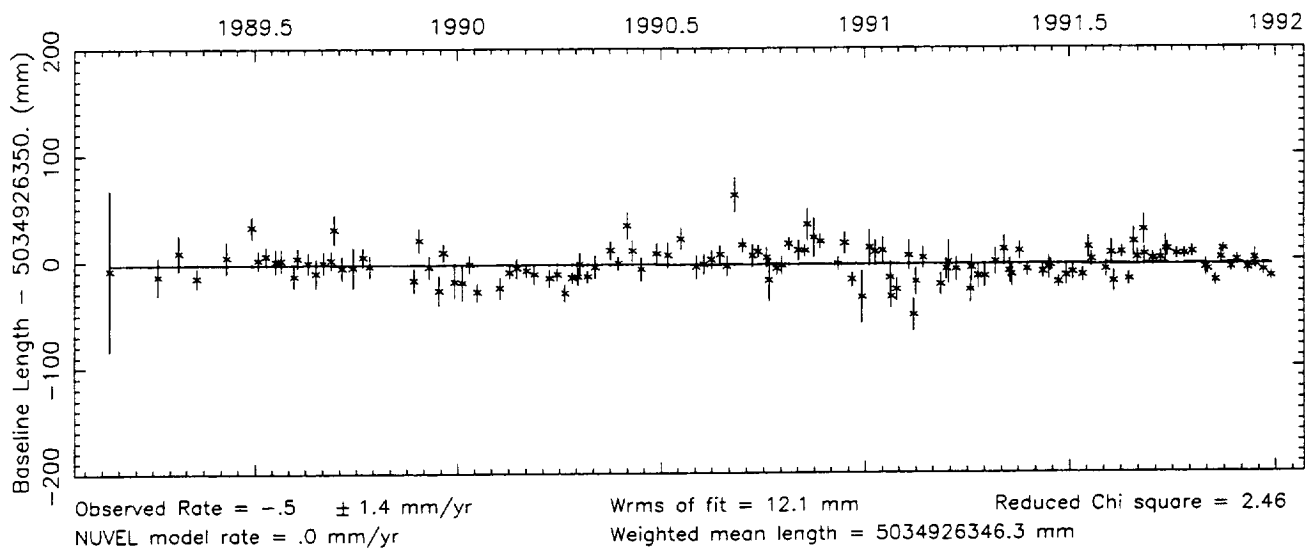
Wrms of fit = 33.2 mm

Reduced Chi square = .79

Vector baseline plots for GILCREEK-NRAO85 3

Baseline length = 5035 kilometers

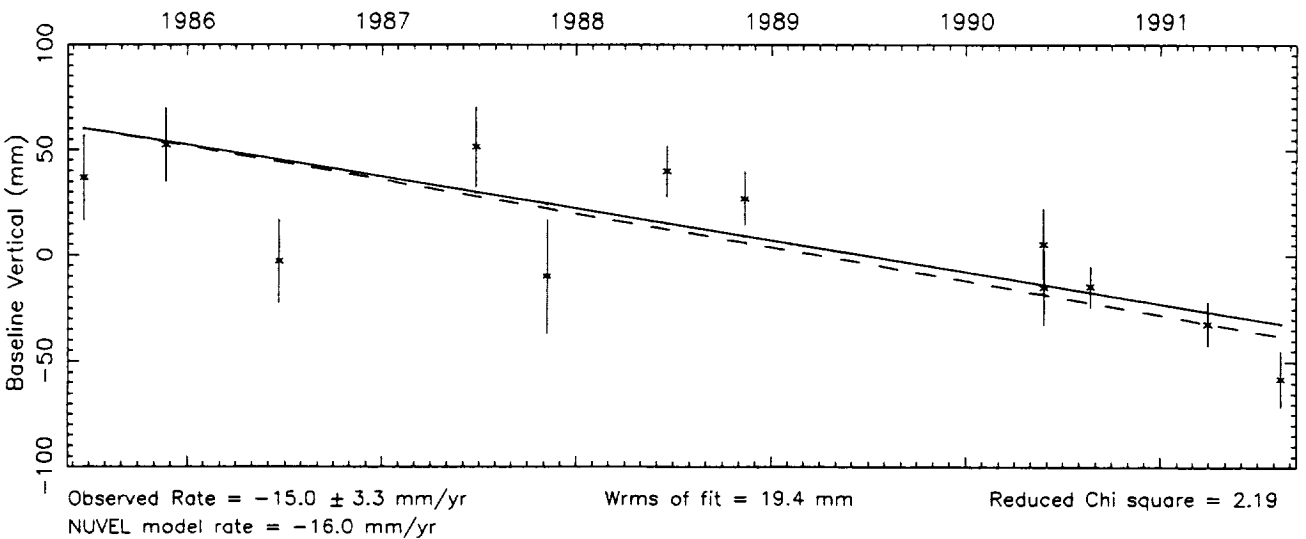
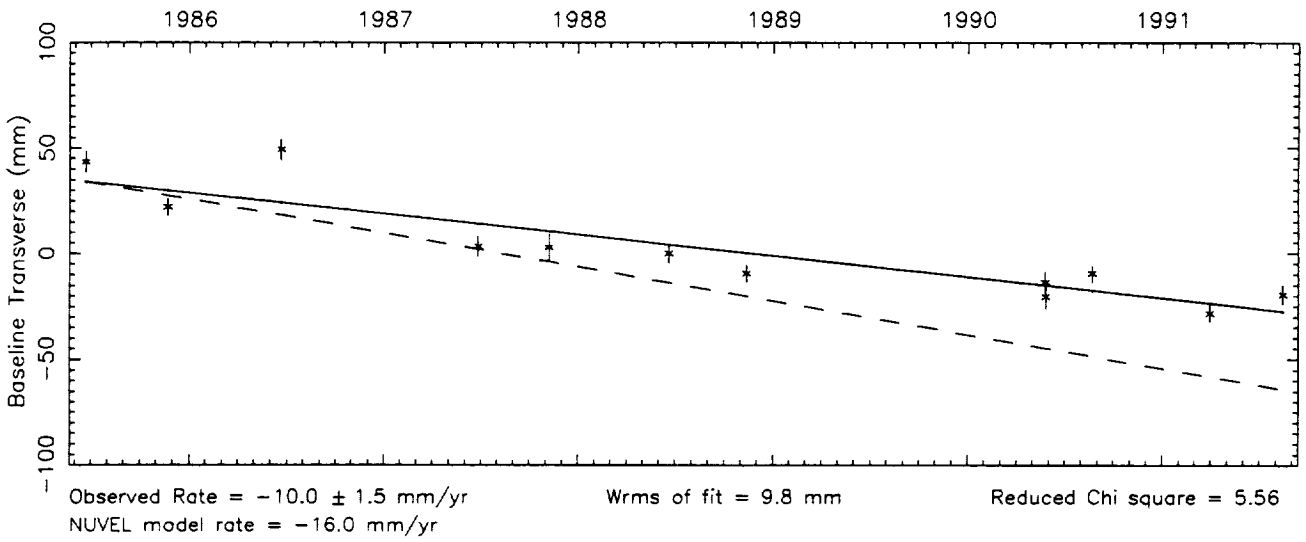
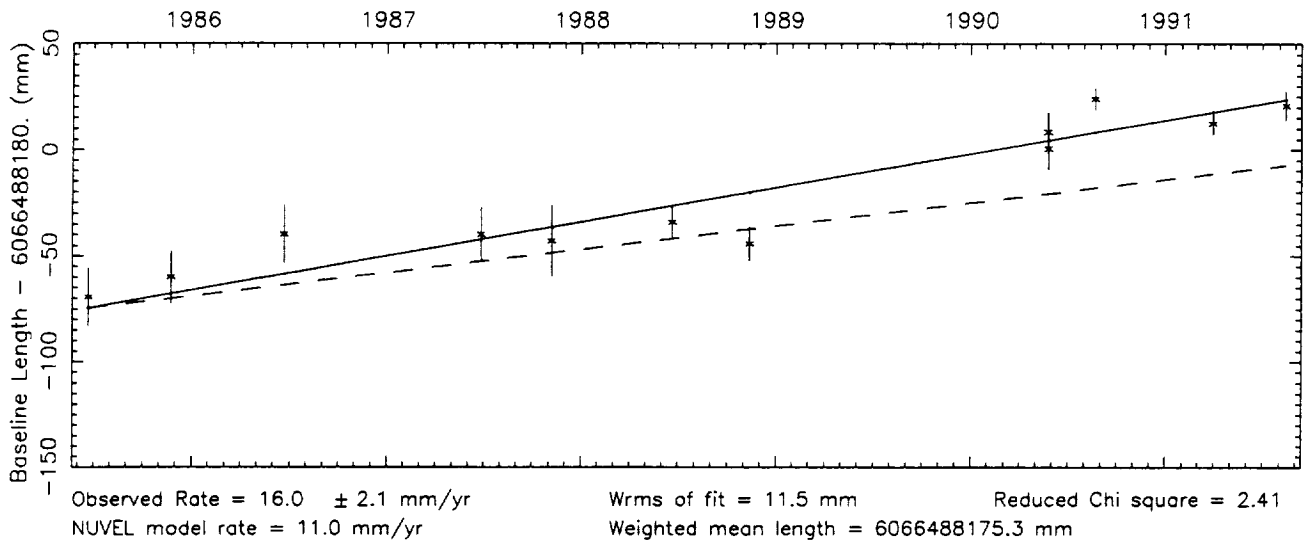
Number of sessions = 135



Vector baseline plots for GILCREEK-ONSALA60

Baseline length = 6066 kilometers

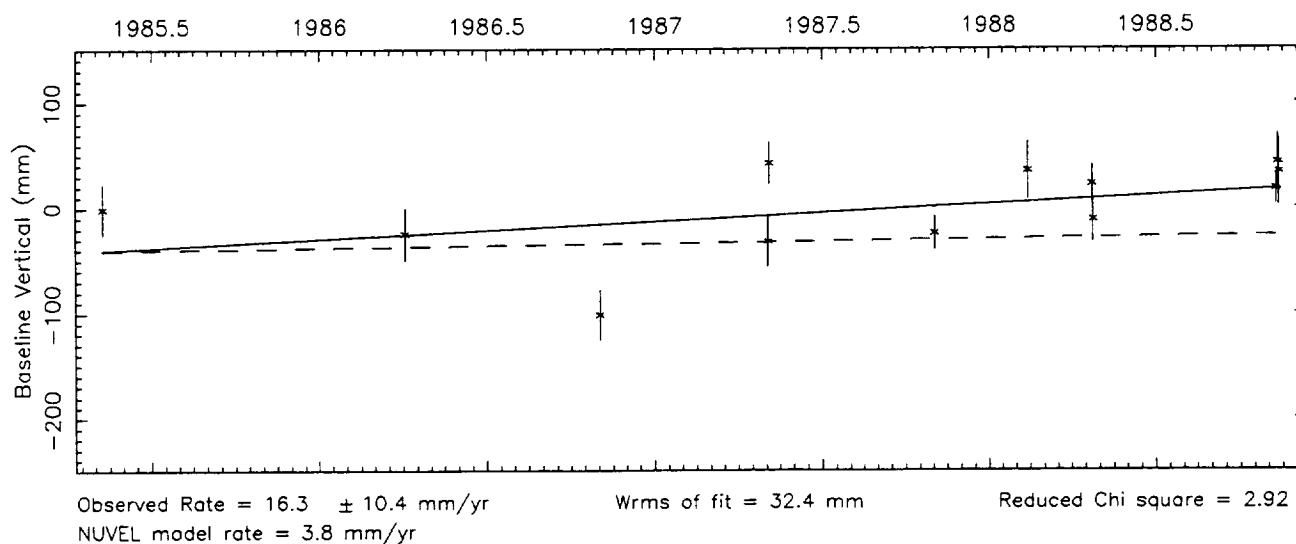
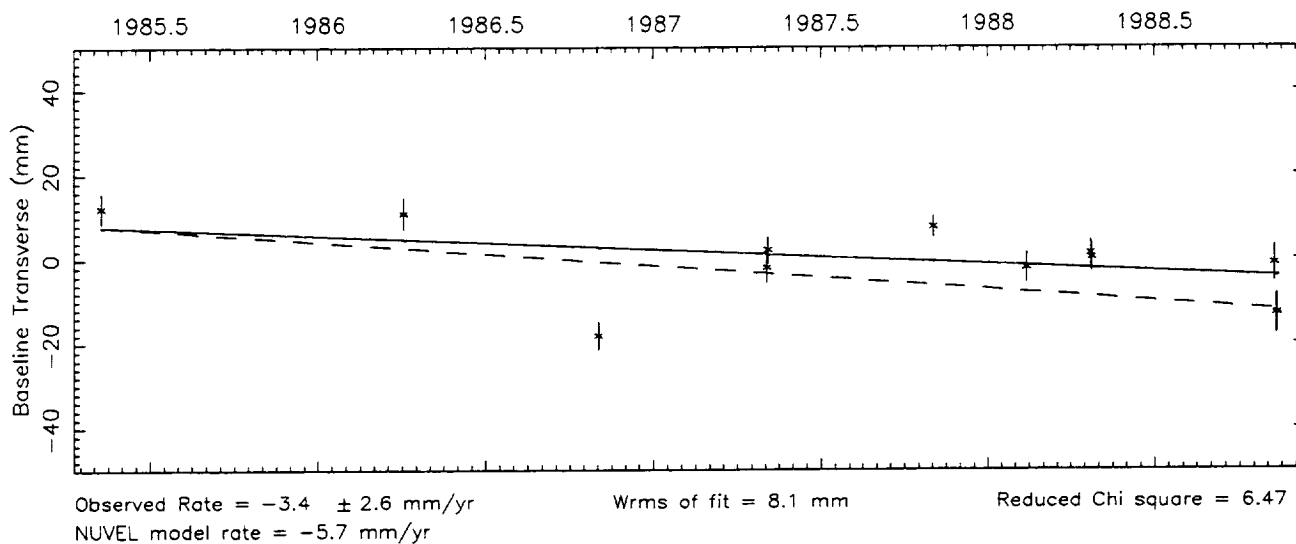
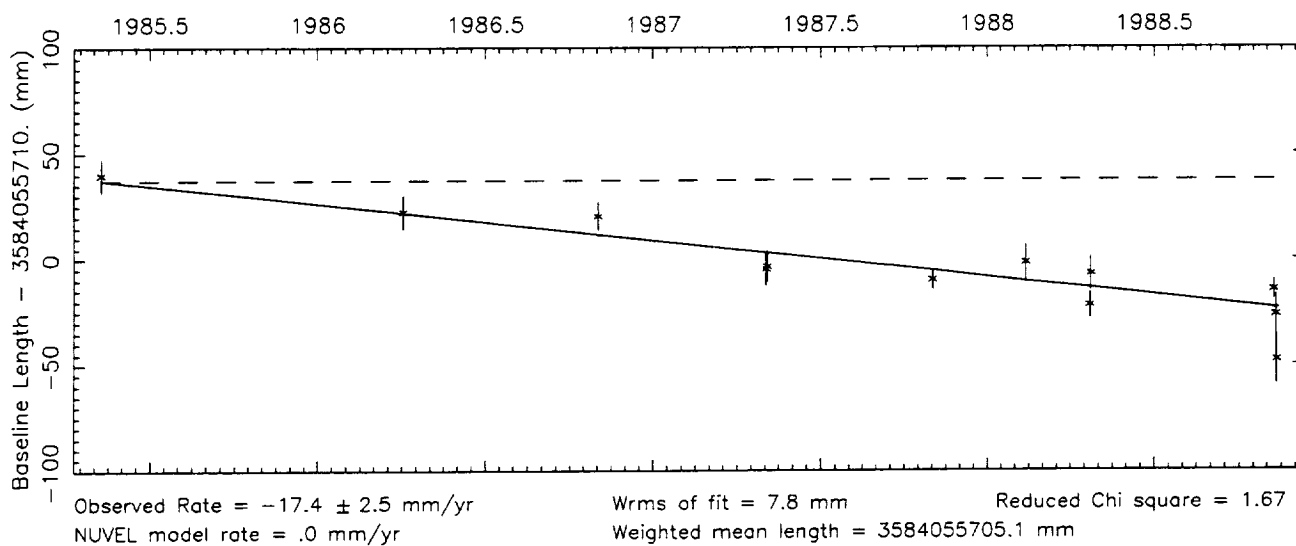
Number of sessions = 12



Vector baseline plots for GILCREEK-OVRO 130

Baseline length = 3584 kilometers

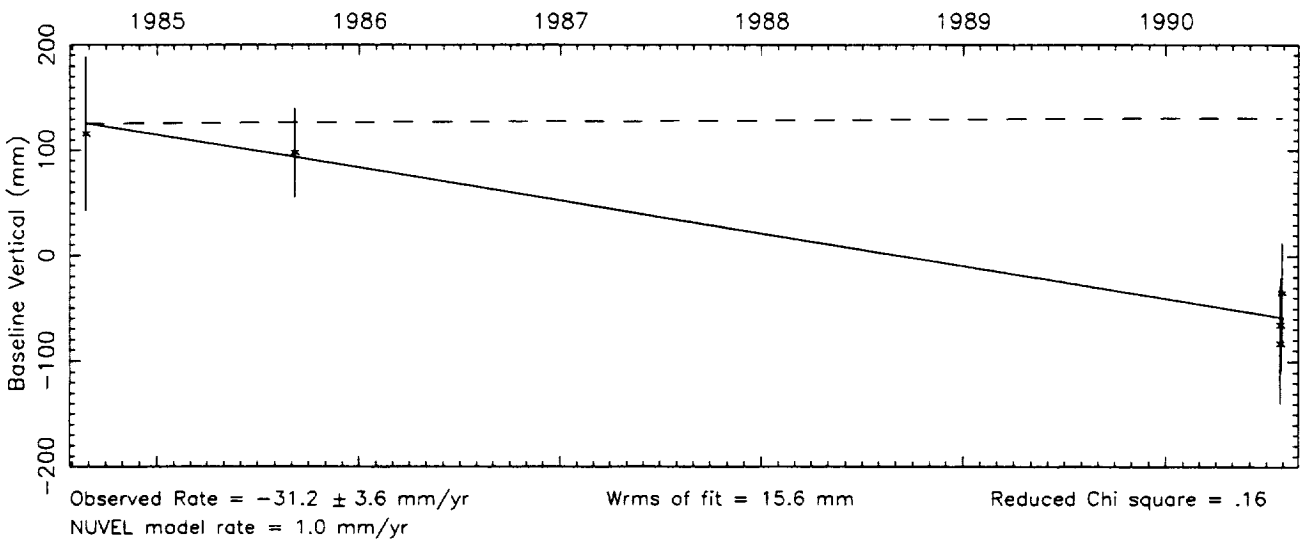
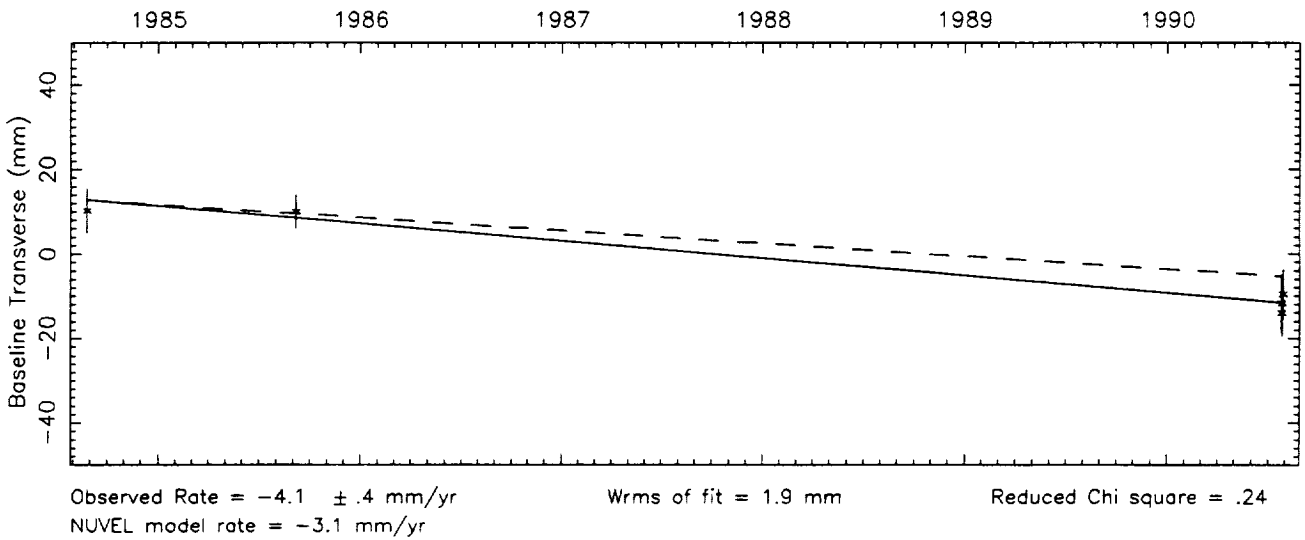
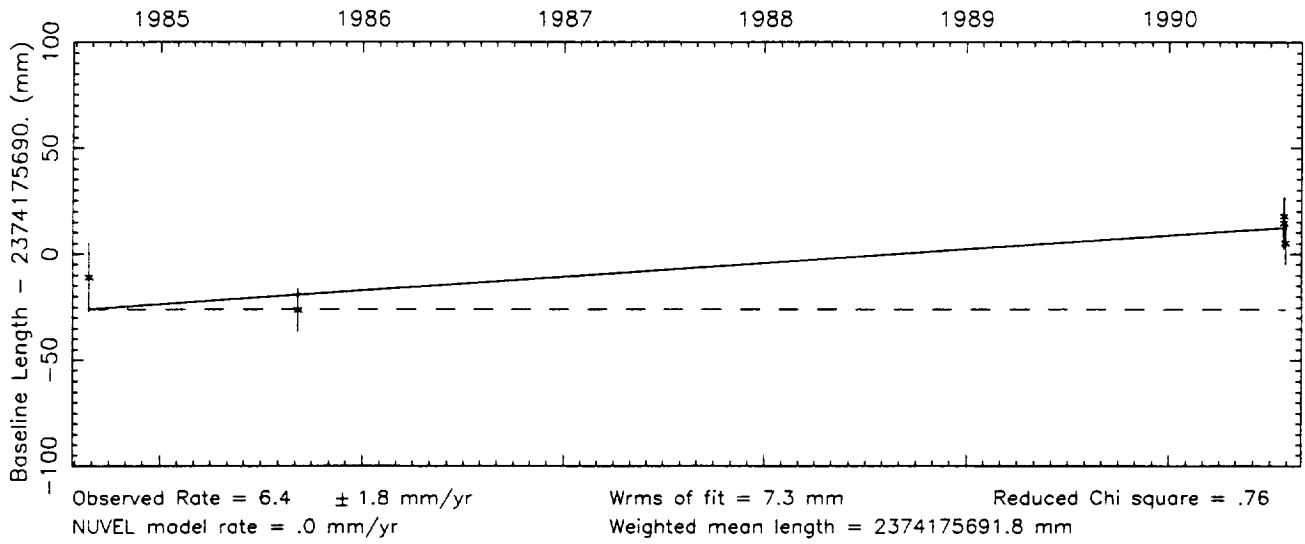
Number of sessions = 12



Vector baseline plots for GILCREEK-PENTICTN

Baseline length = 2374 kilometers

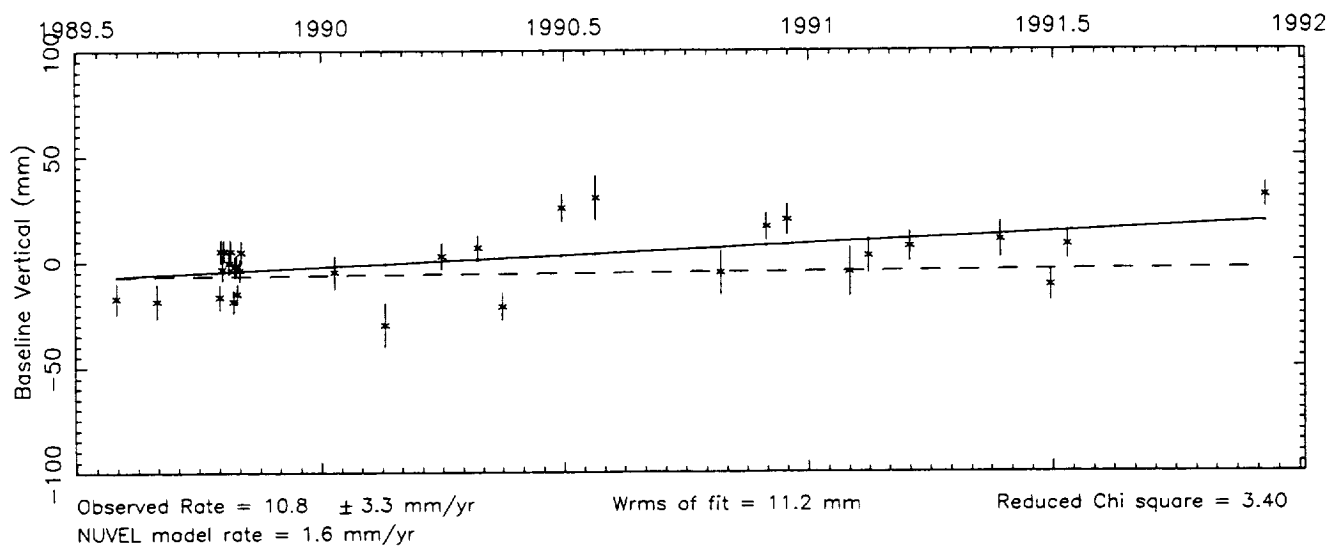
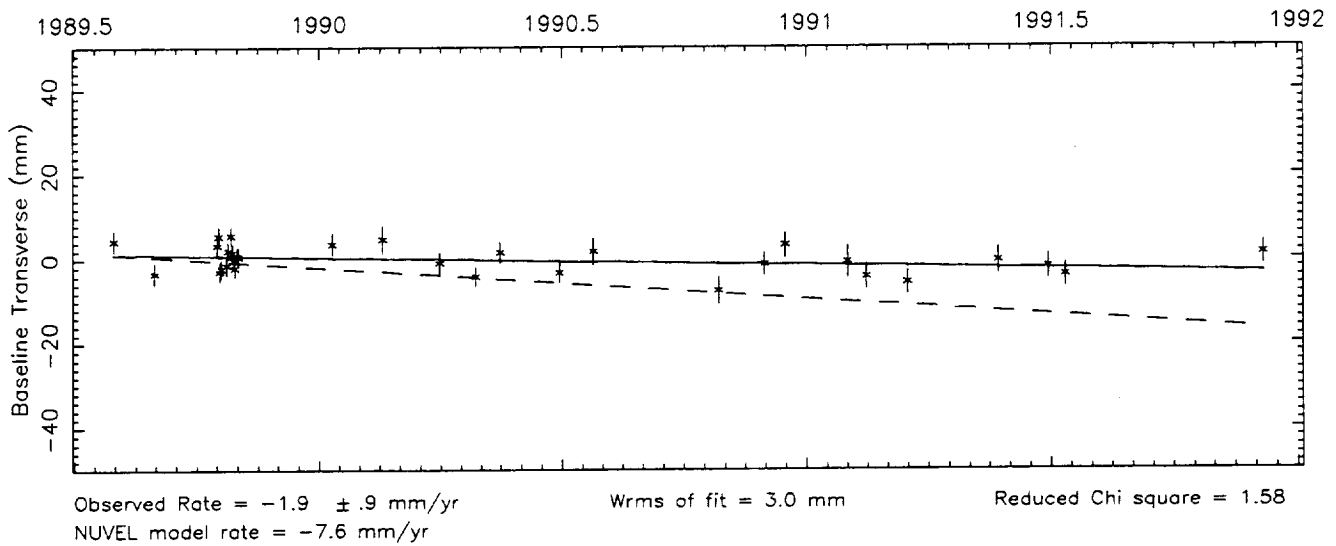
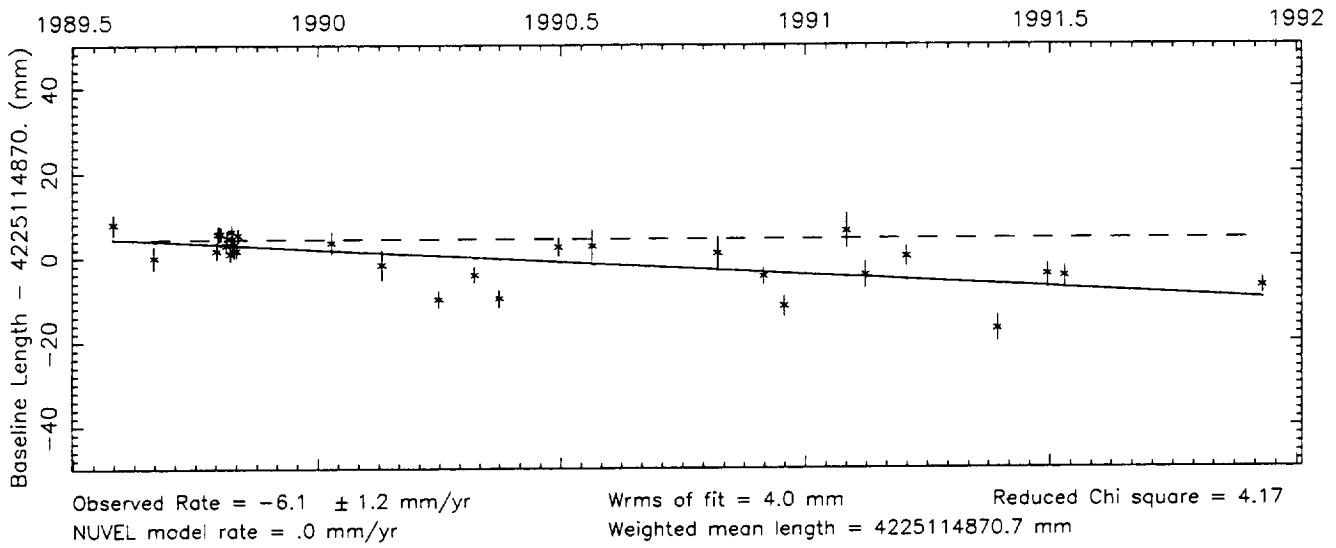
Number of sessions = 5



Vector baseline plots for GILCREEK-PIETOWN

Baseline length = 4225 kilometers

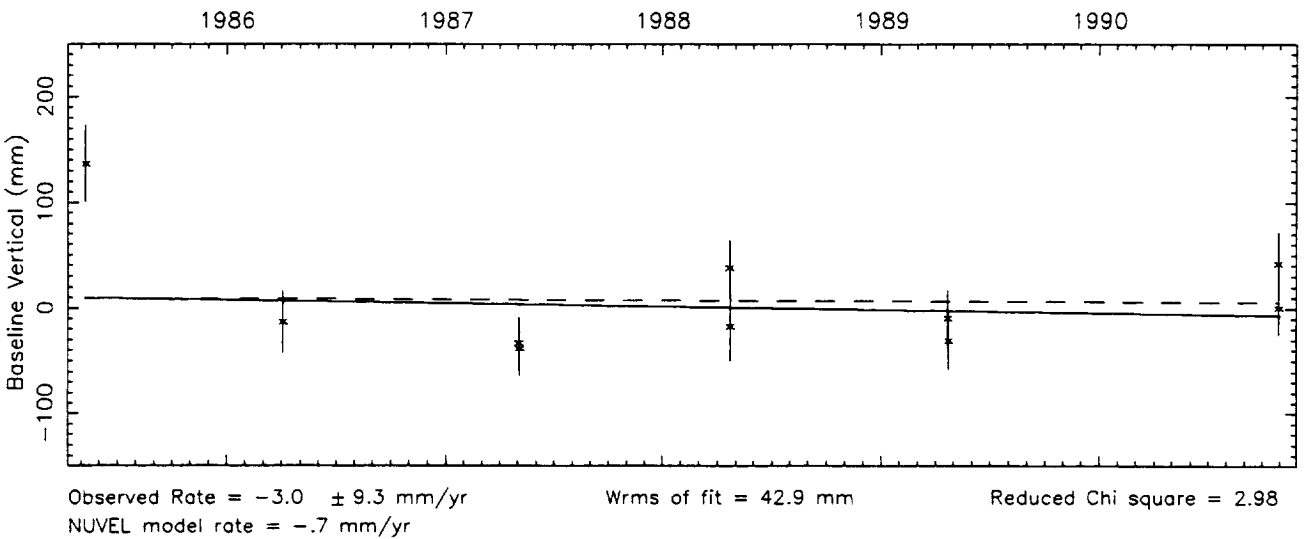
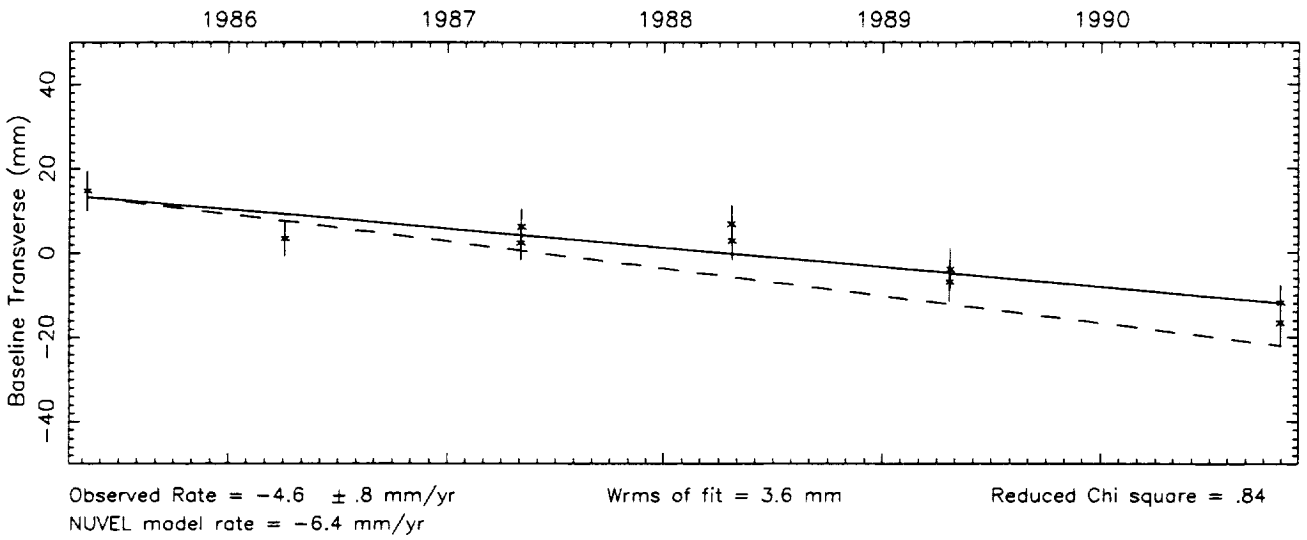
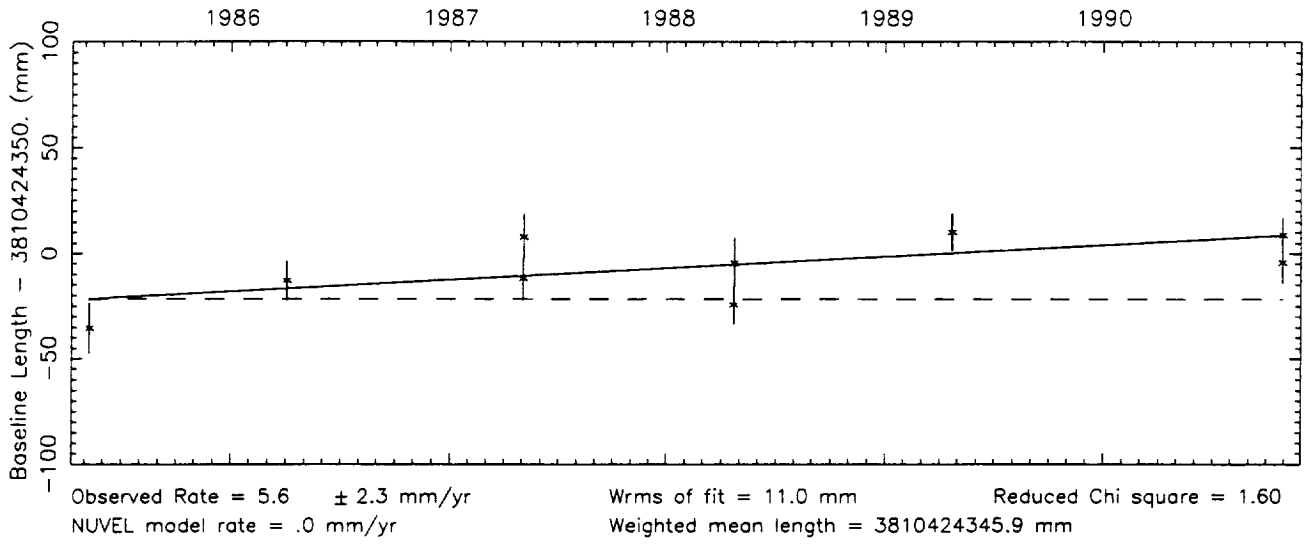
Number of sessions = 31



Vector baseline plots for GILCREEK-PLATTVIL

Baseline length = 3810 kilometers

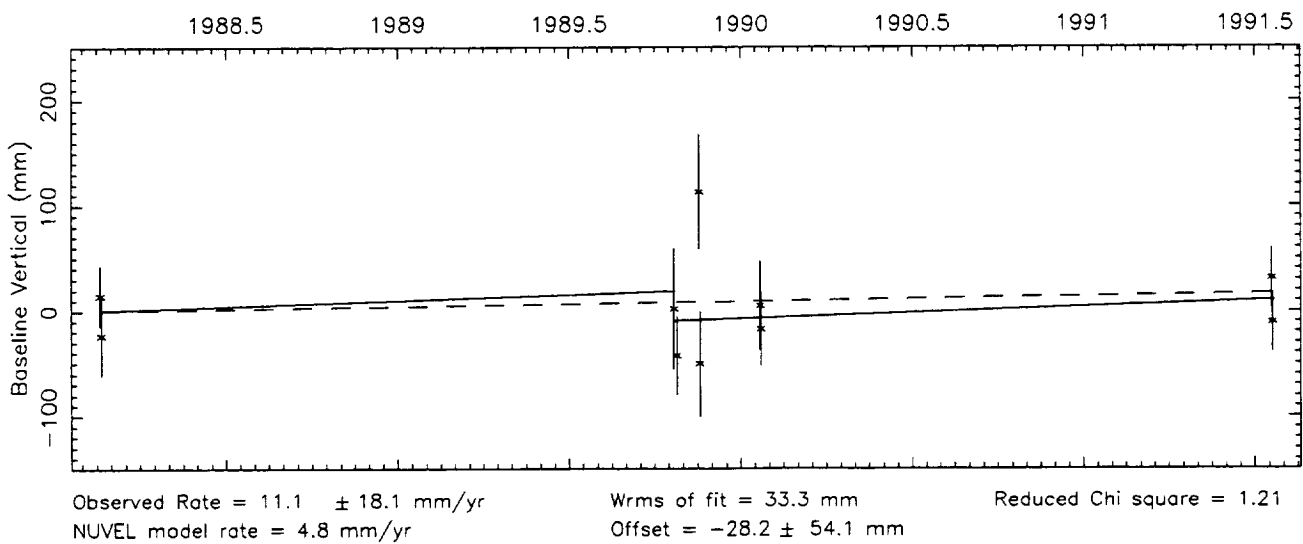
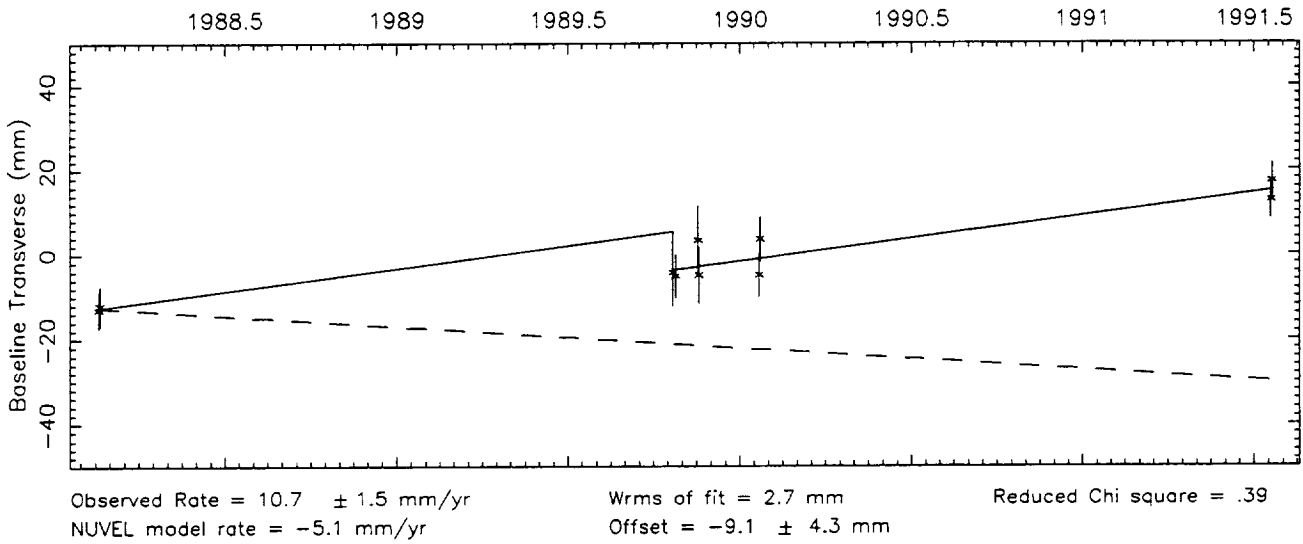
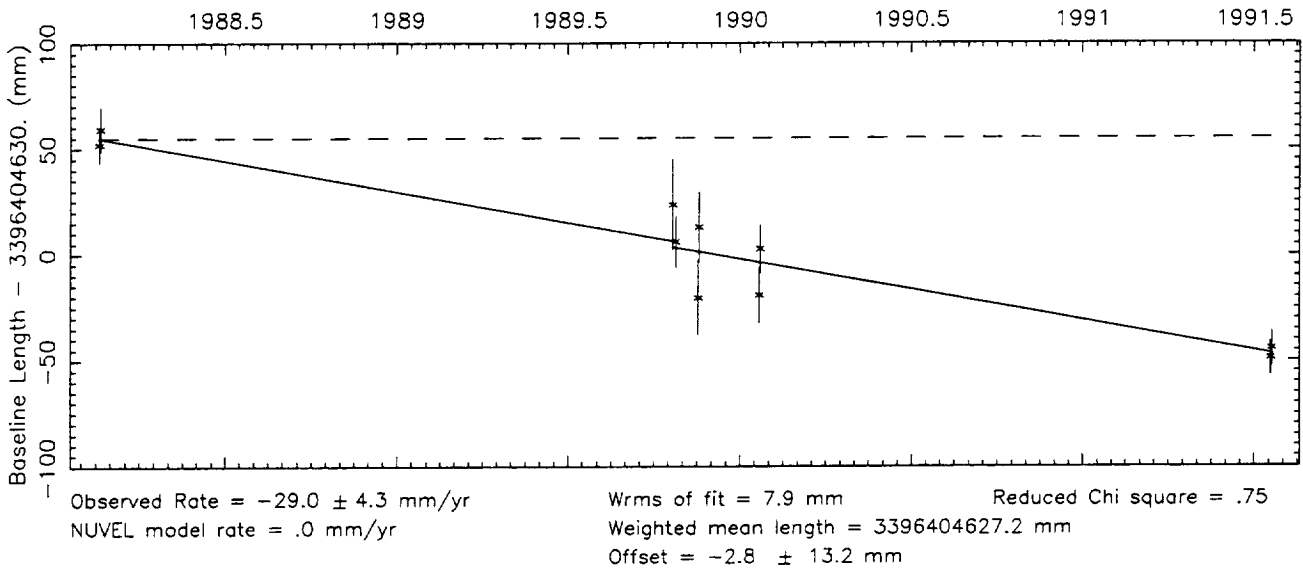
Number of sessions = 10



Vector baseline plots for GILCREEK-PRESIDIO

Baseline length = 3396 kilometers

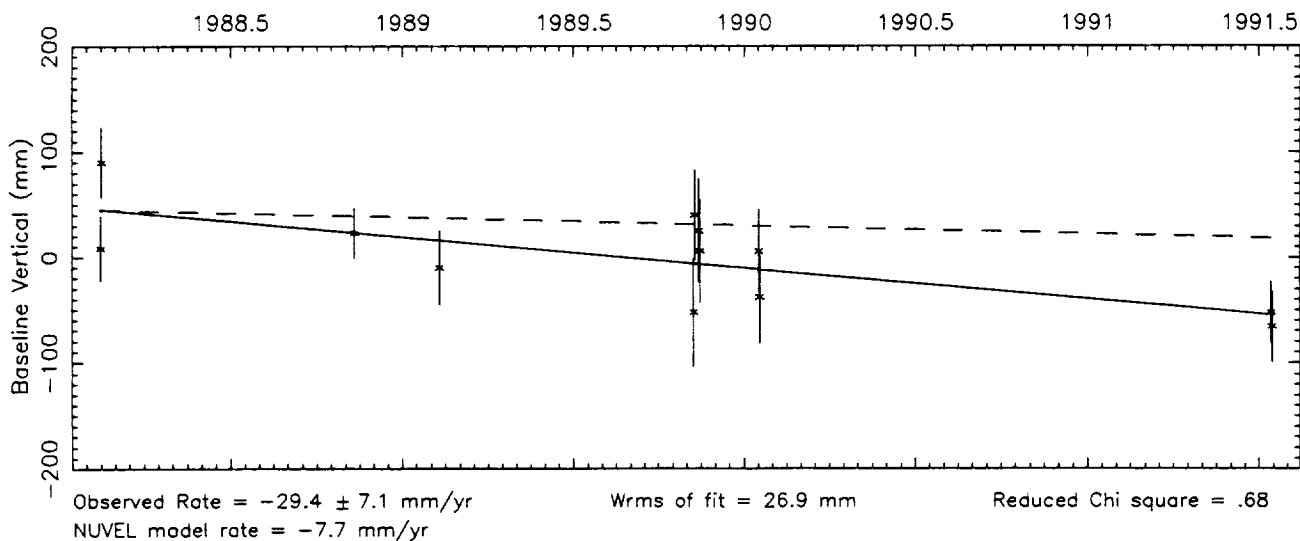
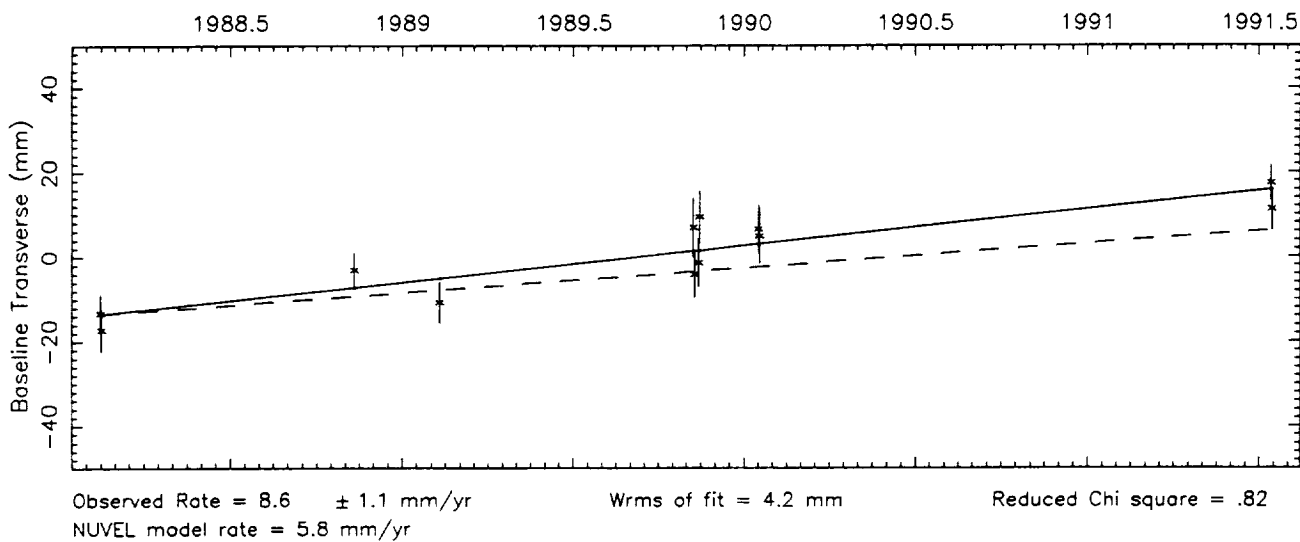
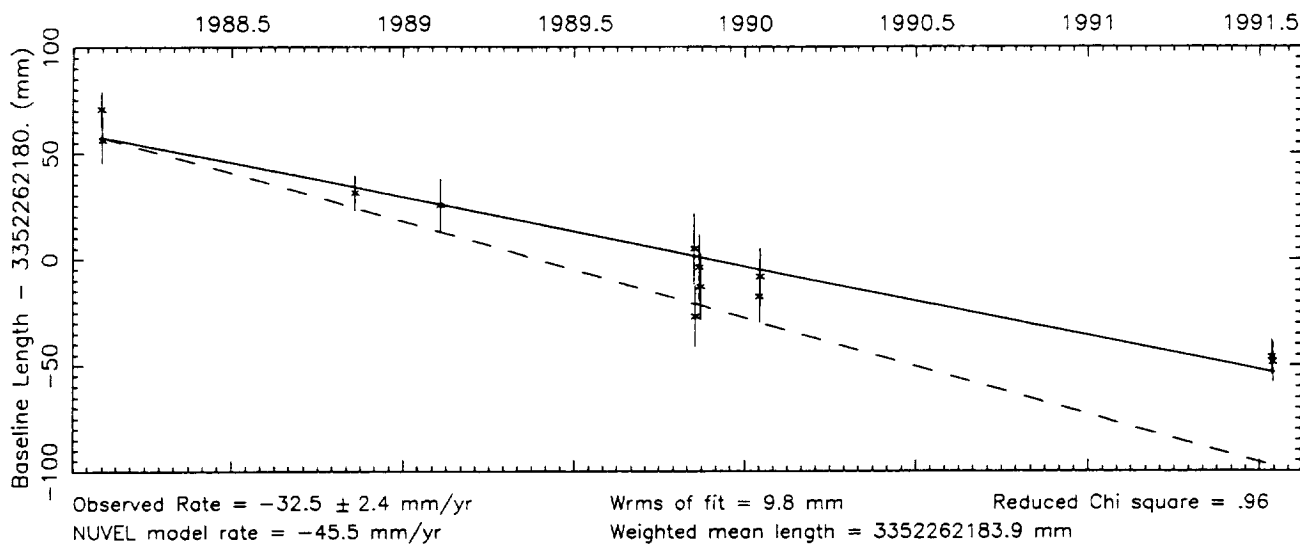
Number of sessions = 10



Vector baseline plots for GILCREEK-PT REYES

Baseline length = 3352 kilometers

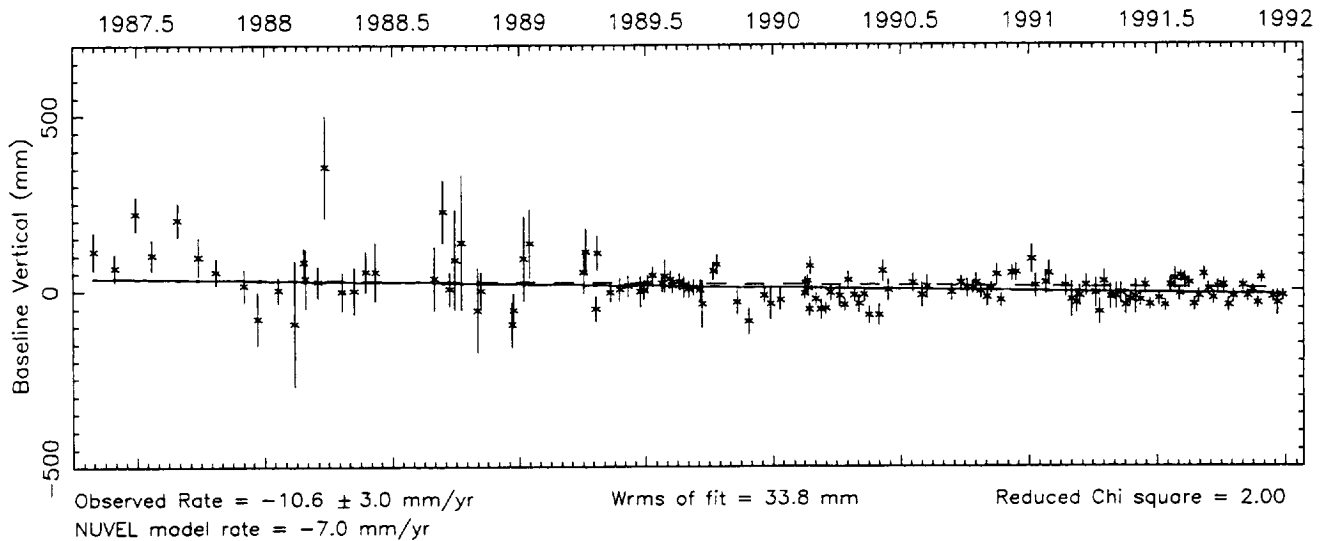
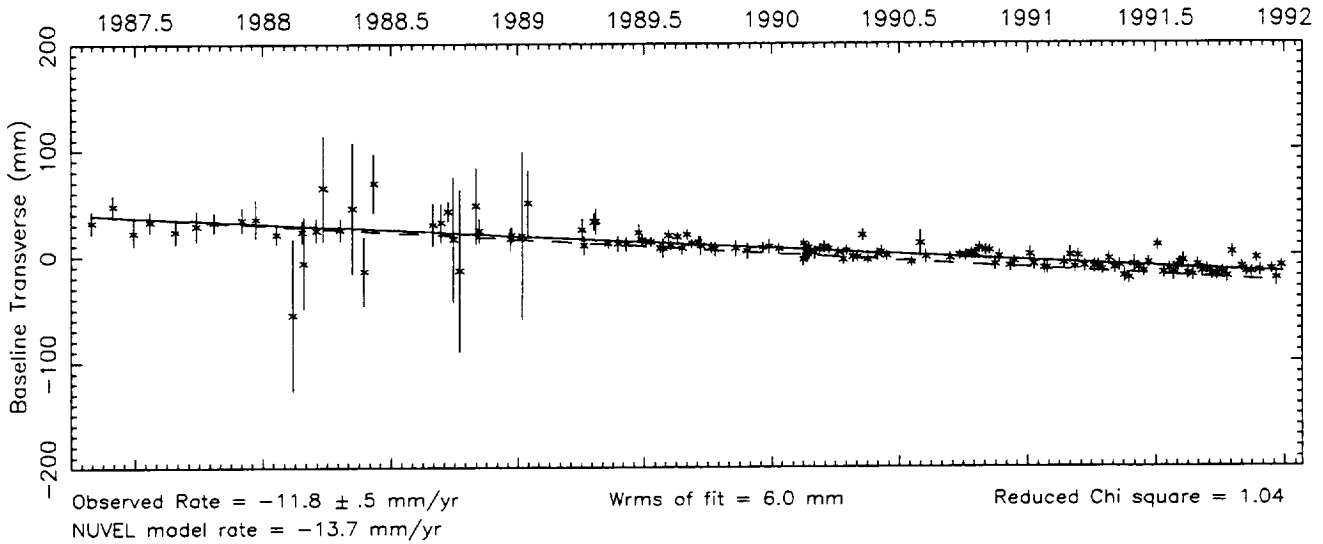
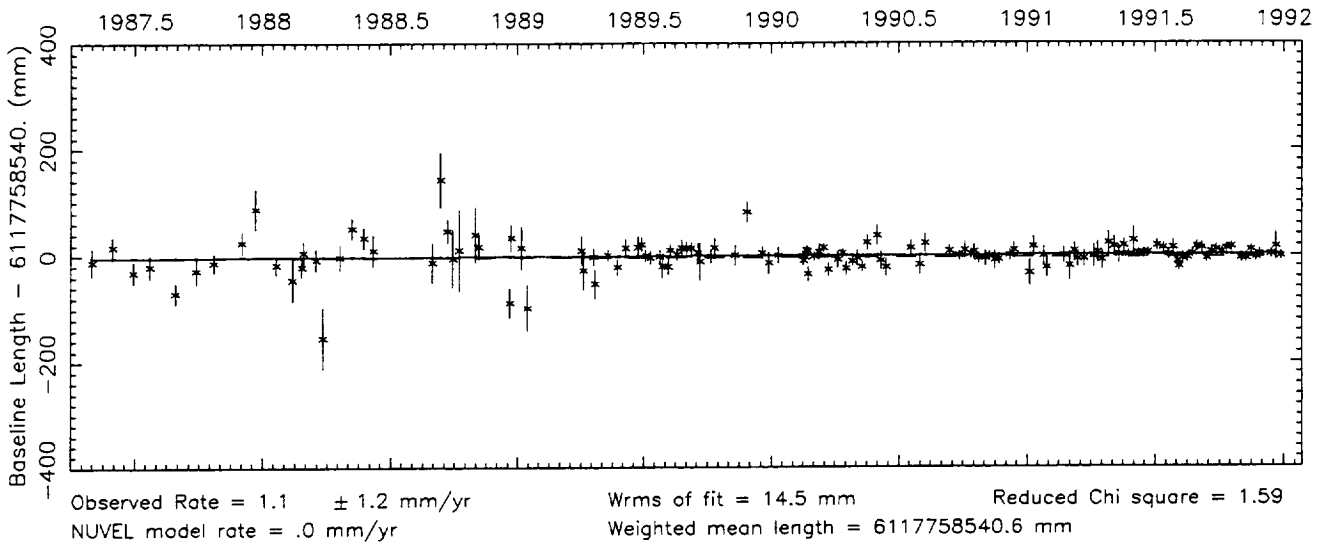
Number of sessions = 12



Vector baseline plots for GILCREEK-RICHMOND

Baseline length = 6118 kilometers

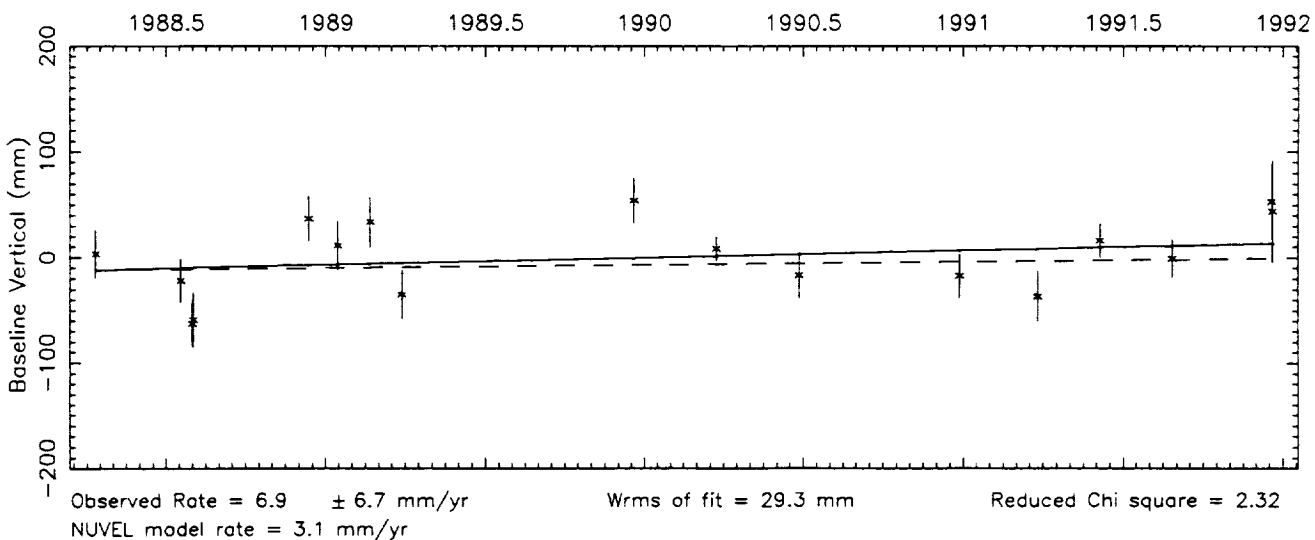
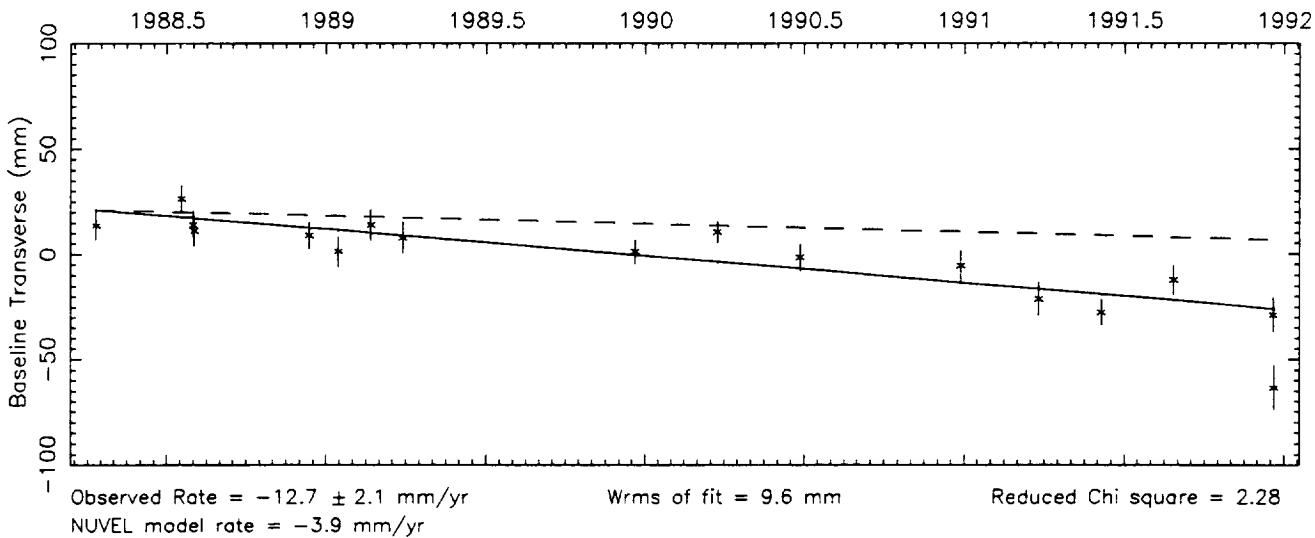
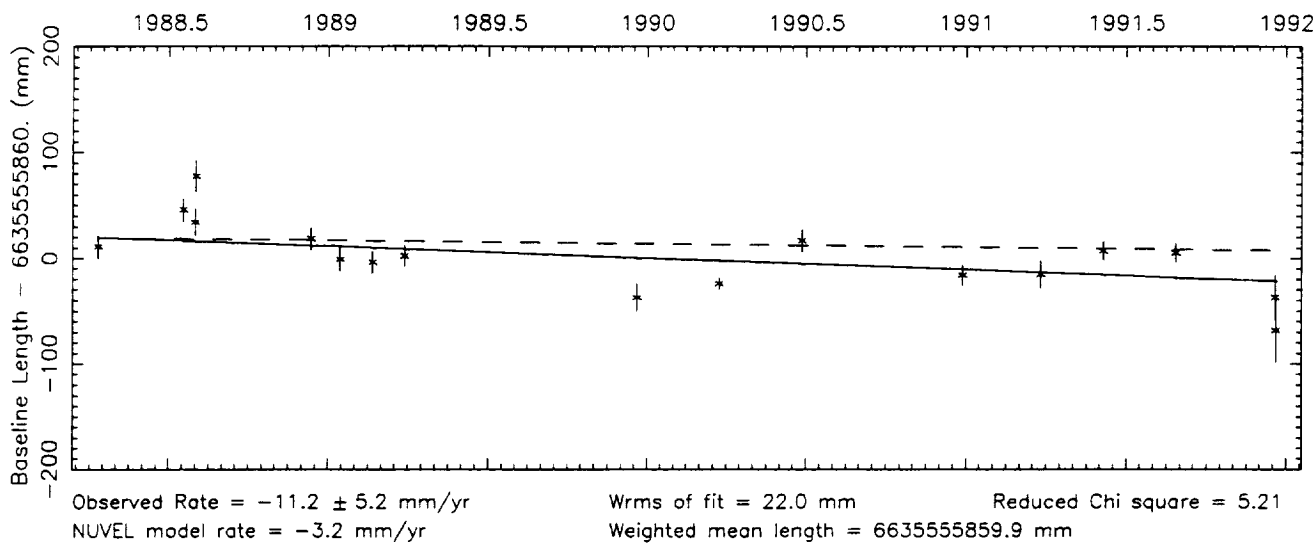
Number of sessions = 139



Vector baseline plots for GILCREEK-SESHAN25

Baseline length = 6636 kilometers

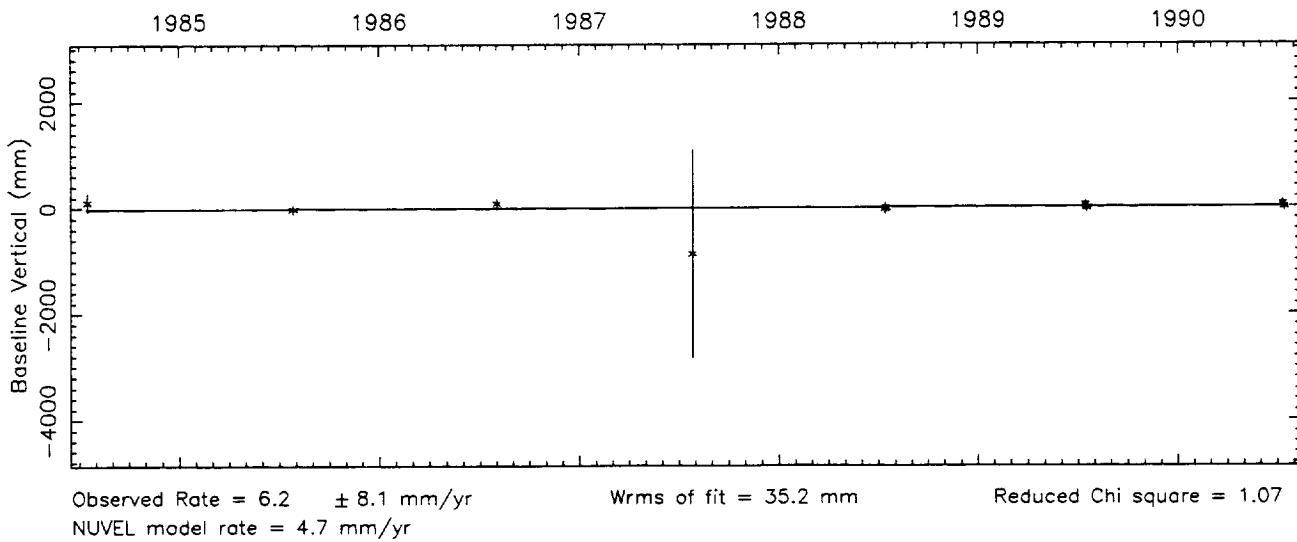
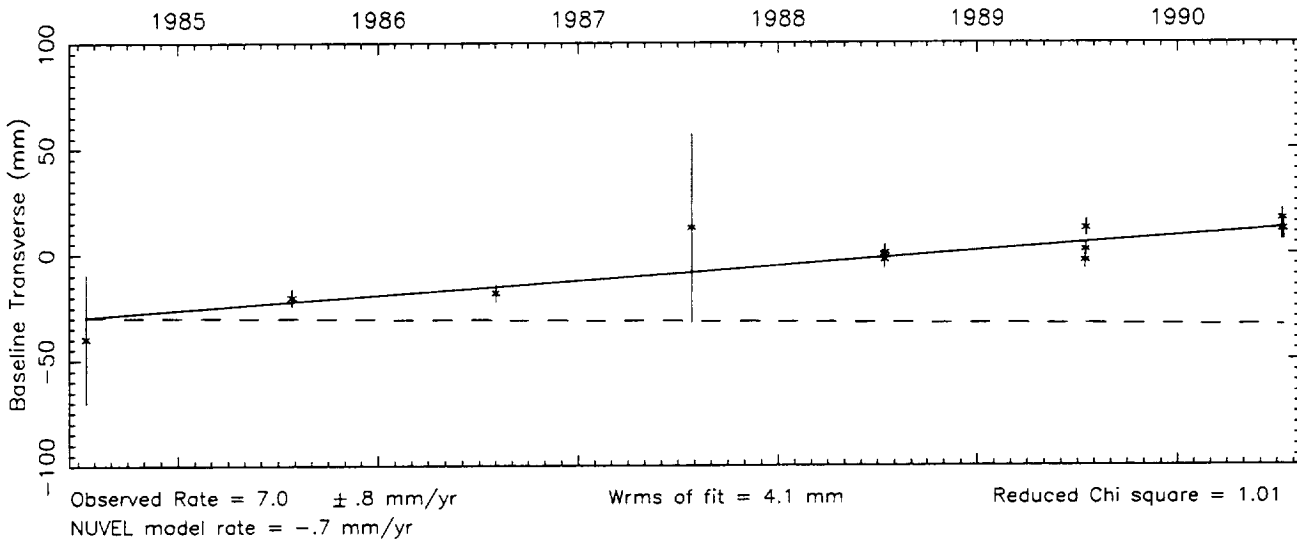
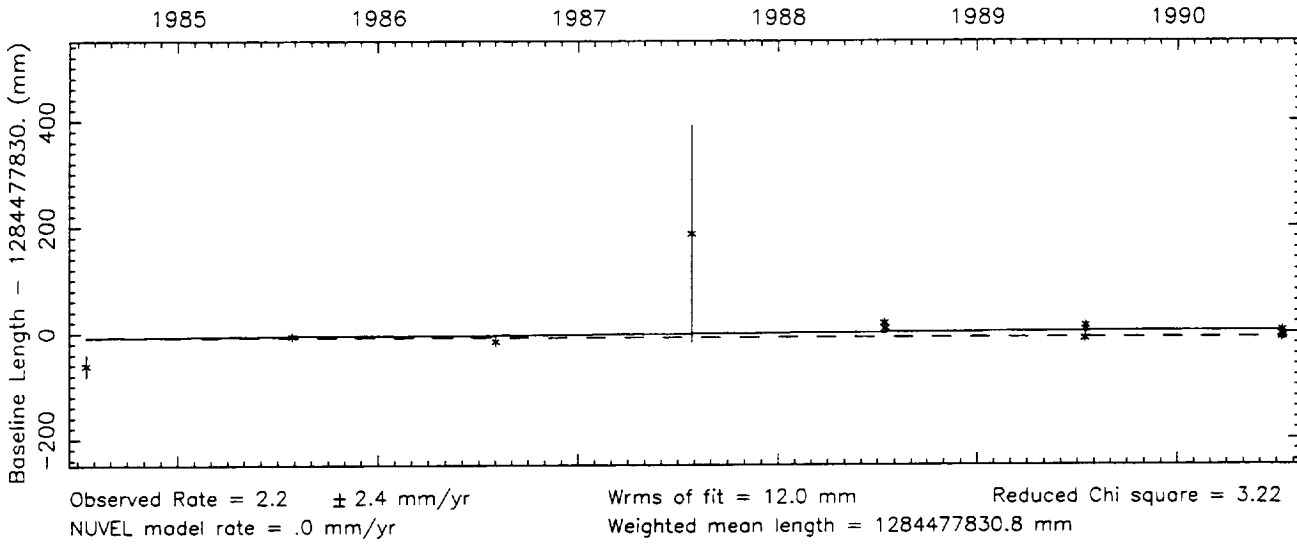
Number of sessions = 17



Vector baseline plots for GILCREEK-SNDPOINT

Baseline length = 1284 kilometers

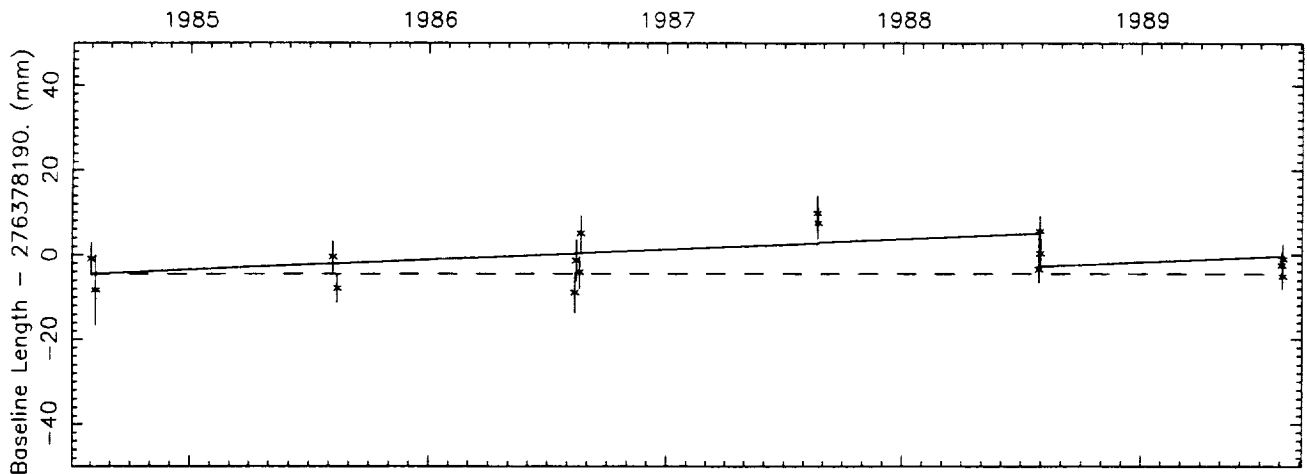
Number of sessions = 13



Vector baseline plots for GILCREEK-SOURDOGH

Baseline length = 276 kilometers

Number of sessions = 16



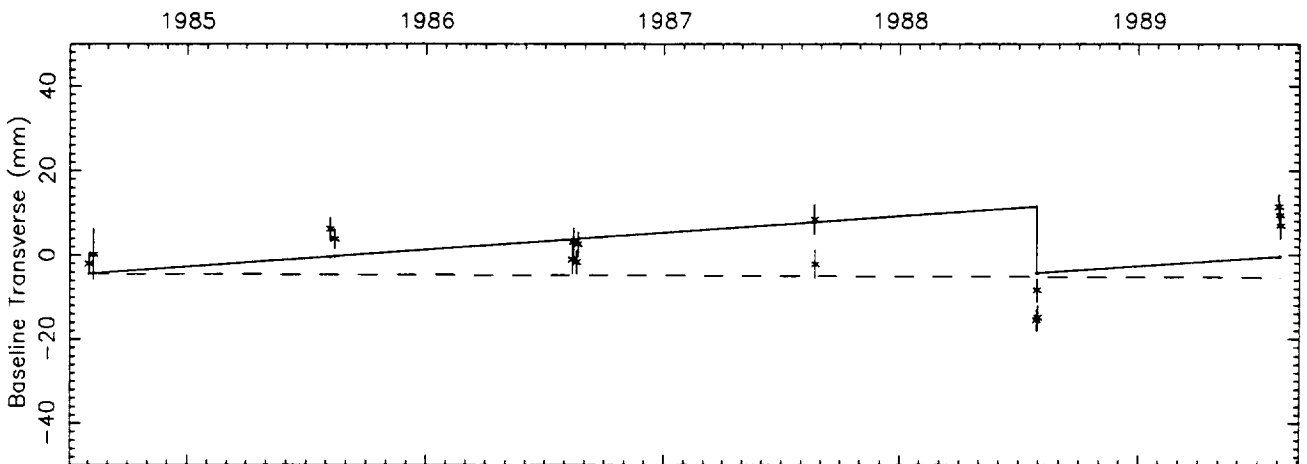
Observed Rate = 2.4 ± 1.6 mm/yr
 NUVEL model rate = $.0$ mm/yr

Wrms of fit = 4.6 mm

Reduced Chi square = 1.85

Weighted mean length = 276378188.9 mm

Offset = -7.8 ± 5.3 mm

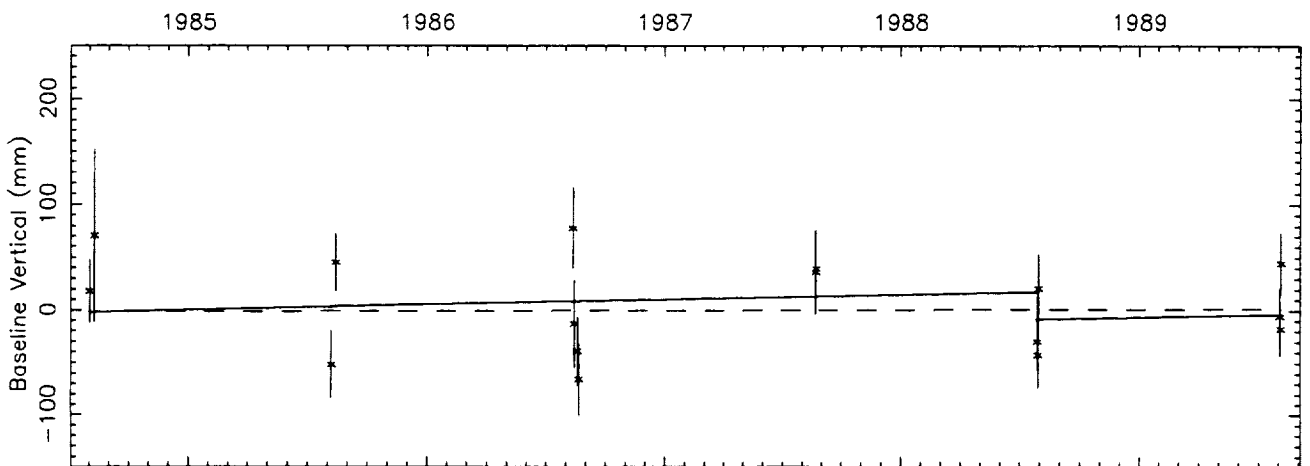


Observed Rate = 4.0 ± 2.4 mm/yr
 NUVEL model rate = $-.2$ mm/yr

Wrms of fit = 7.1 mm

Reduced Chi square = 6.88

Offset = -15.8 ± 8.1 mm



Observed Rate = 4.9 ± 13.8 mm/yr
 NUVEL model rate = $.7$ mm/yr

Wrms of fit = 38.8 mm

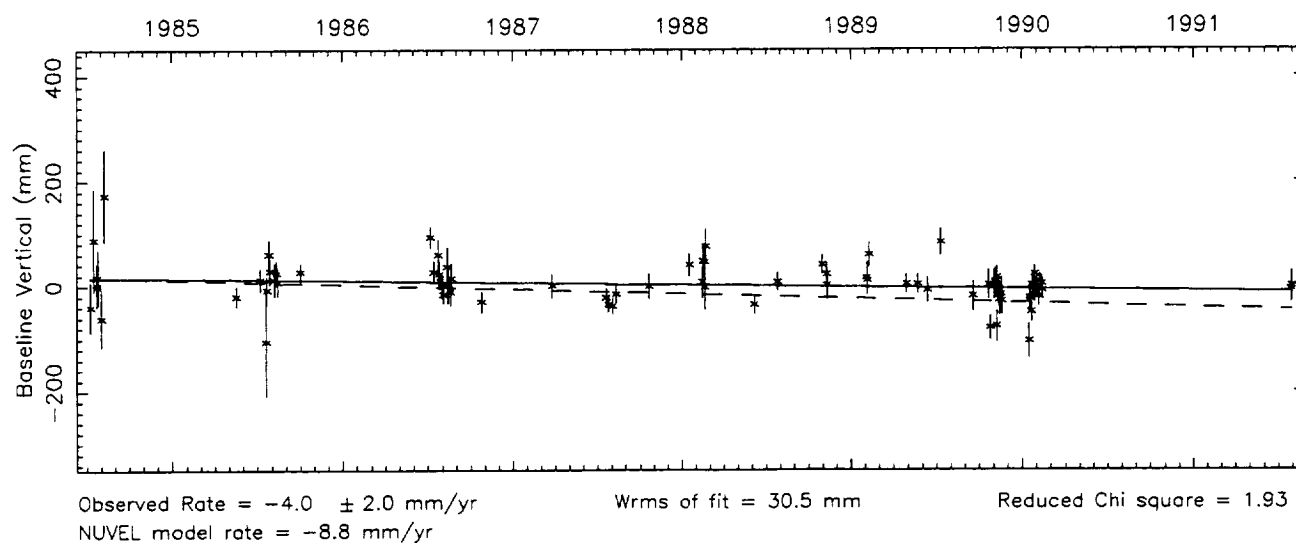
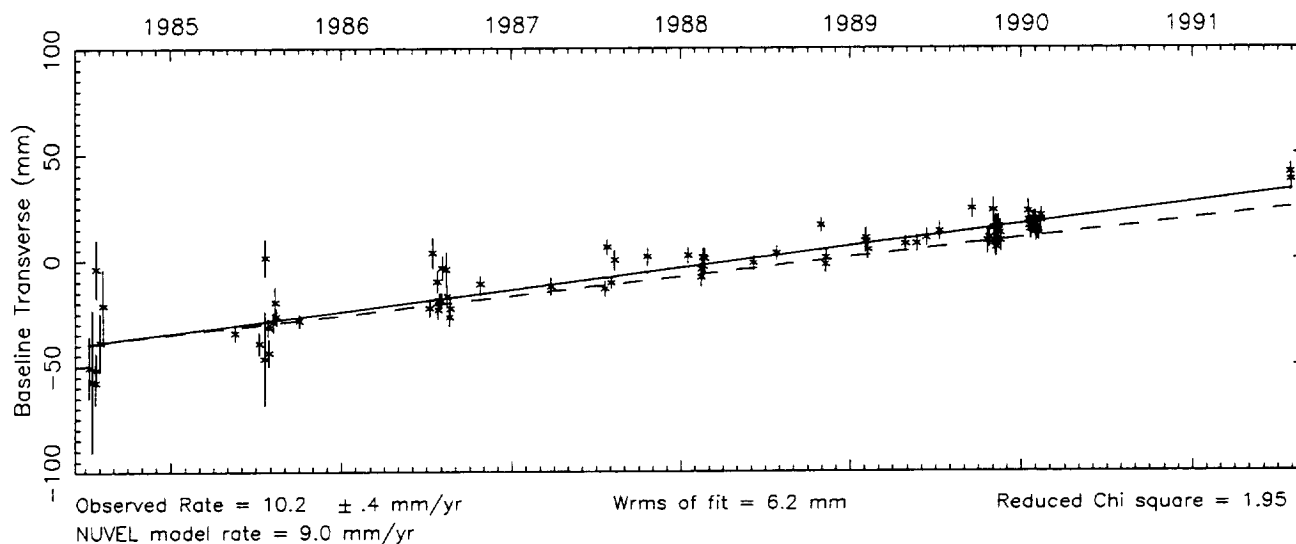
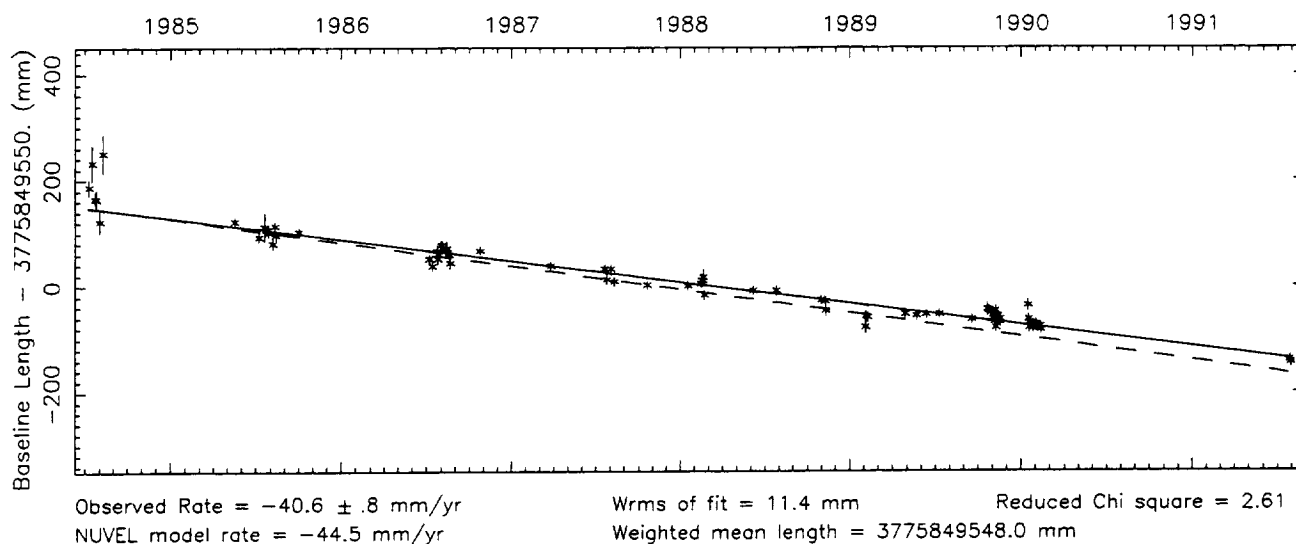
Reduced Chi square = 1.81

Offset = -26.5 ± 46.1 mm

Vector baseline plots for GILCREEK-VNDNBERG

Baseline length = 3776 kilometers

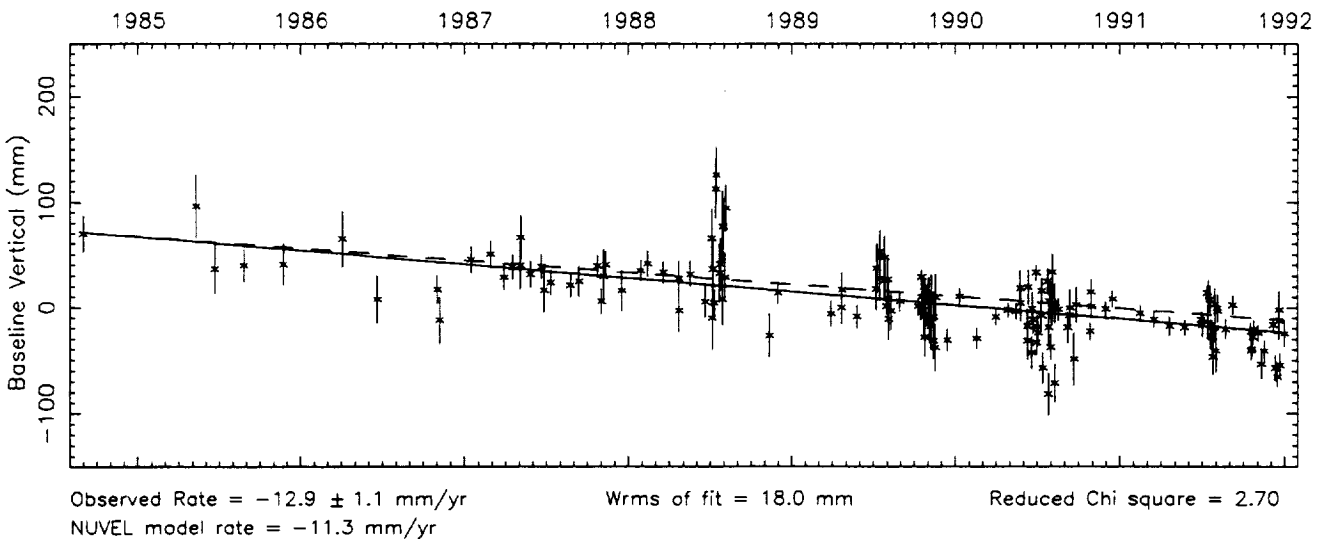
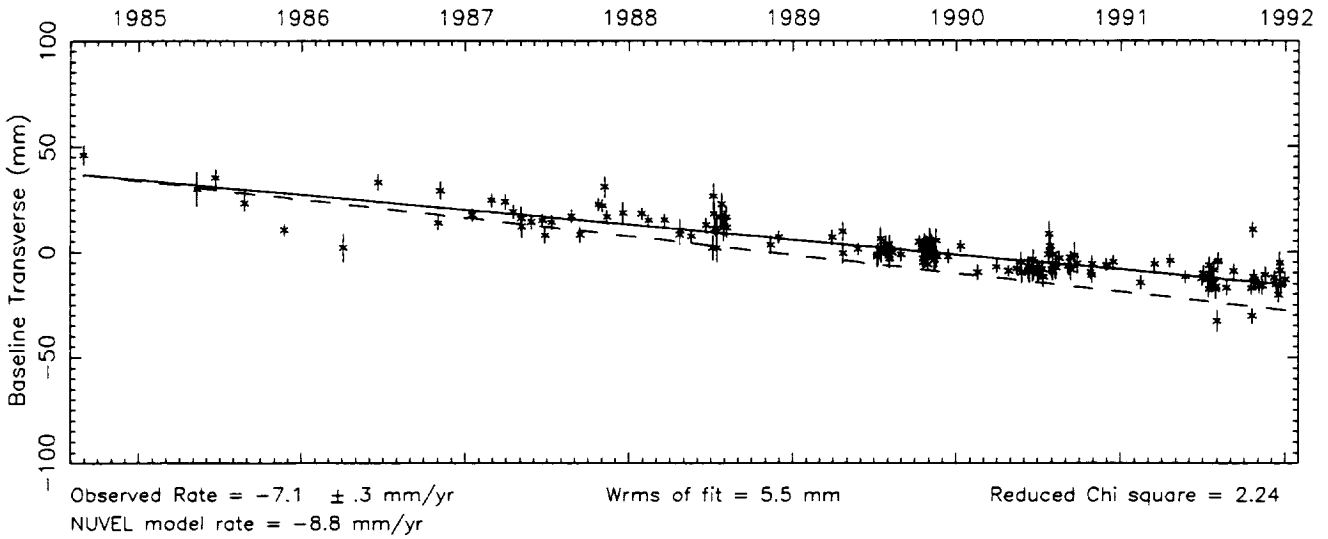
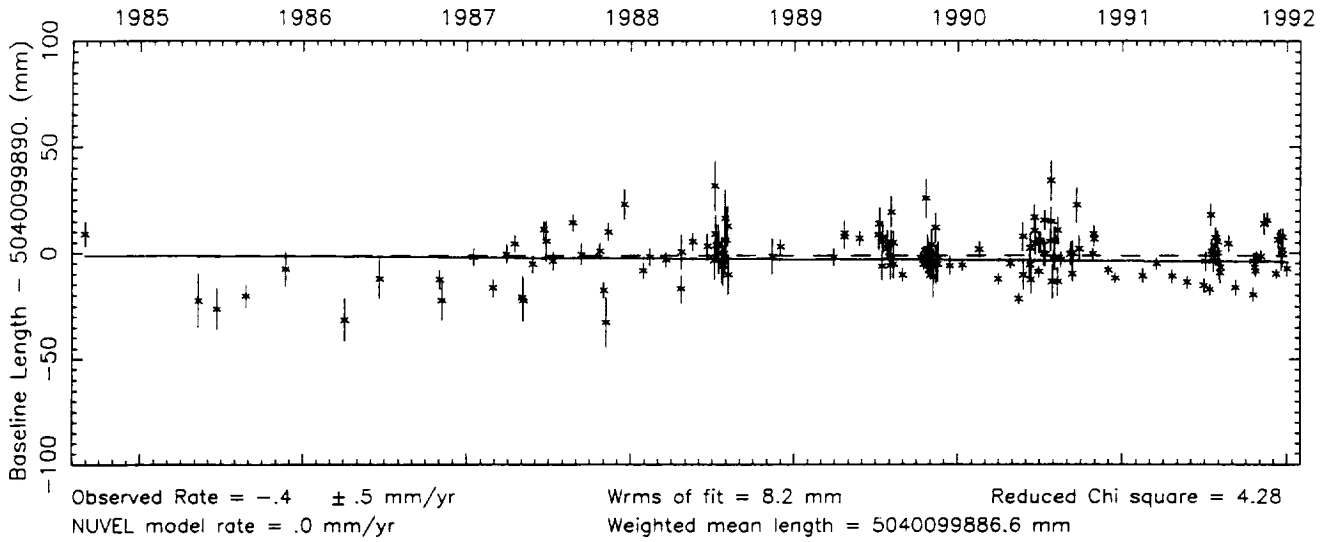
Number of sessions = 80



Vector baseline plots for GILCREEK-WESTFORD

Baseline length = 5040 kilometers

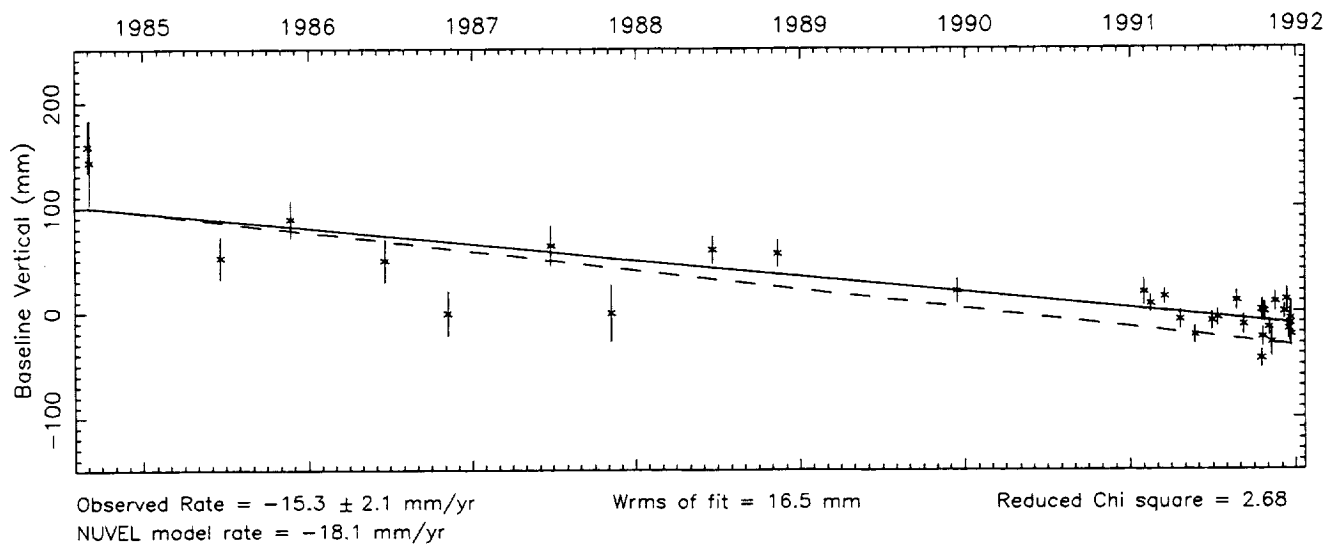
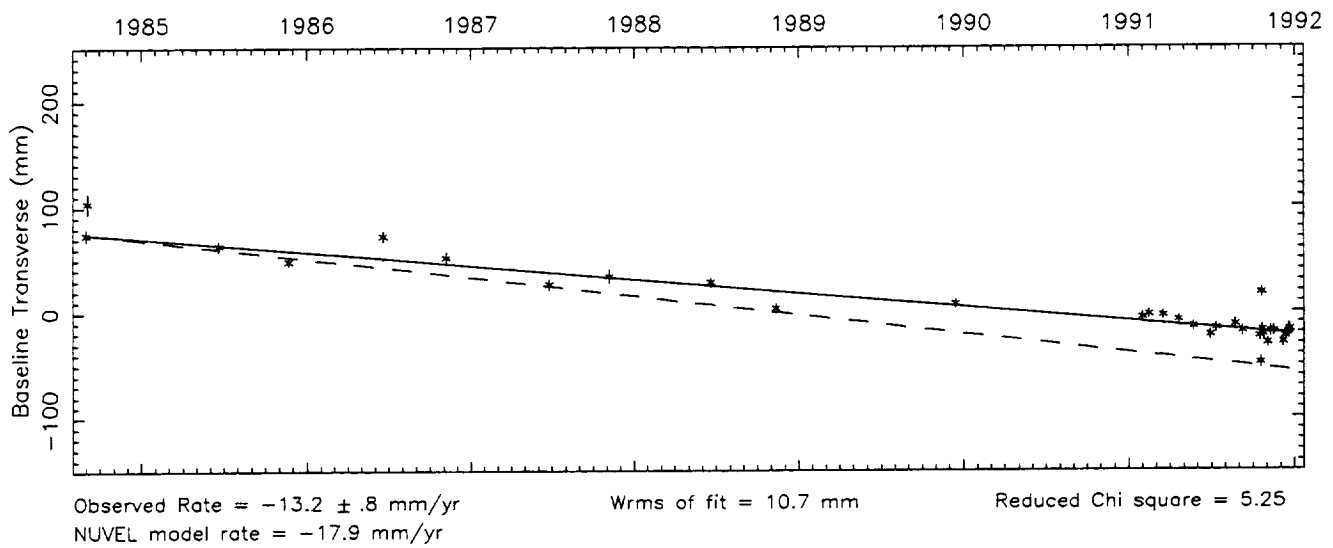
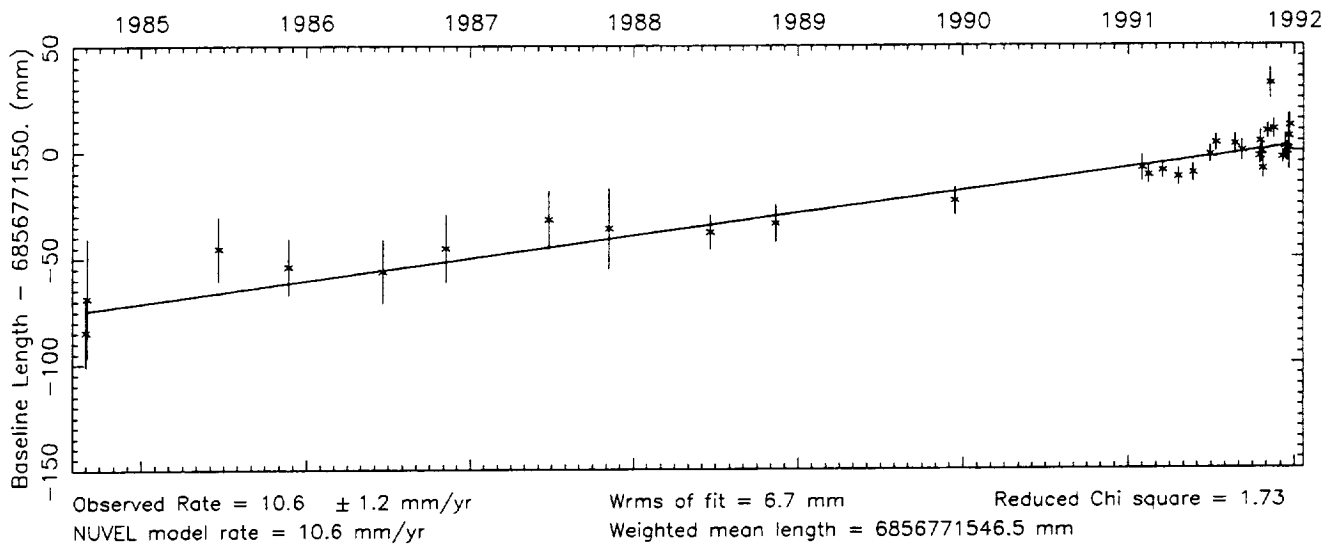
Number of sessions = 166



Vector baseline plots for GILCREEK-WETTZELL

Baseline length = 6857 kilometers

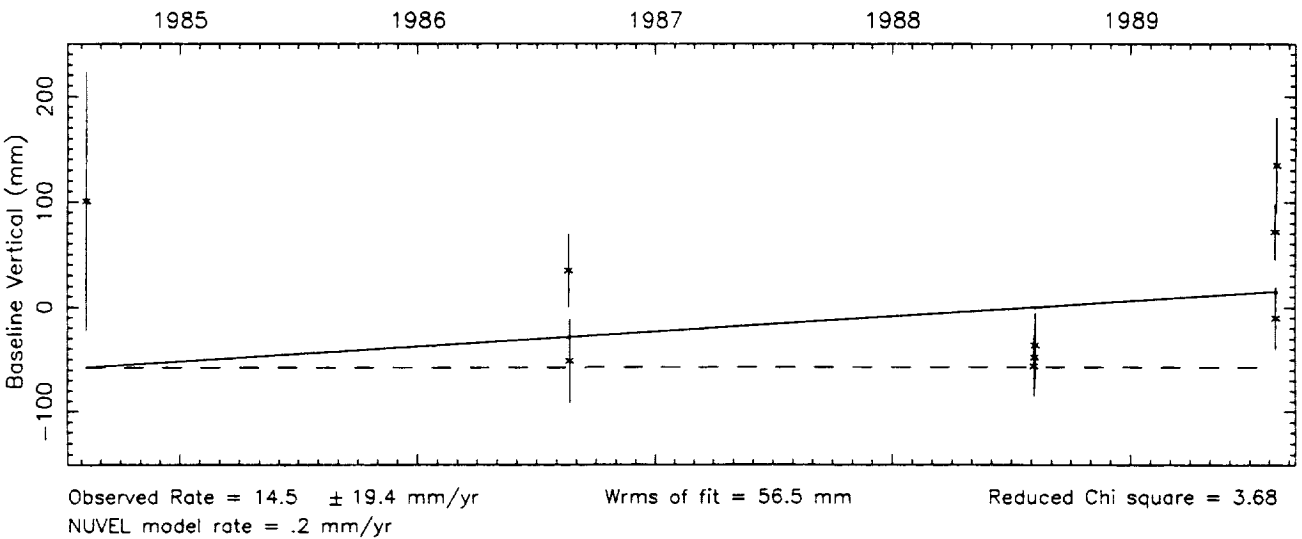
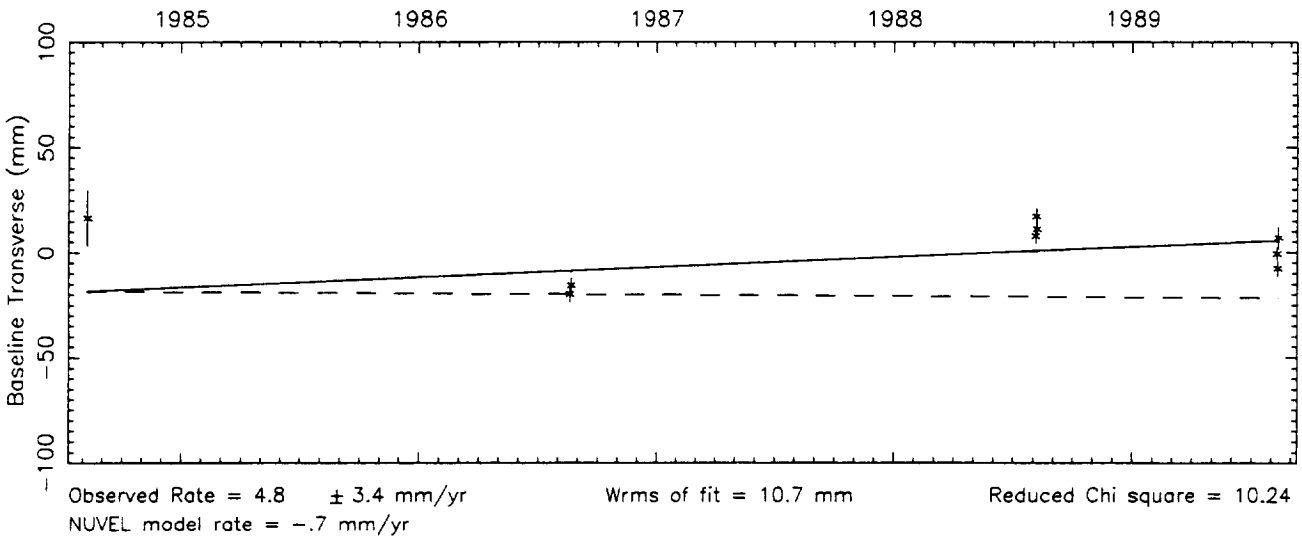
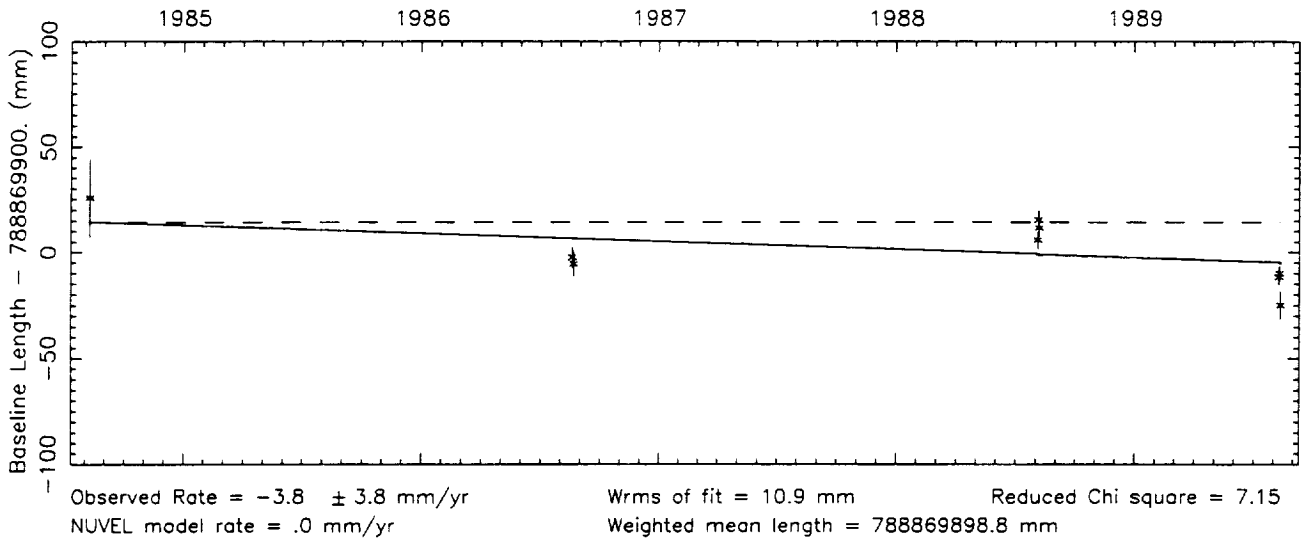
Number of sessions = 34



Vector baseline plots for GILCREEK-WHTHORSE

Baseline length = 789 kilometers

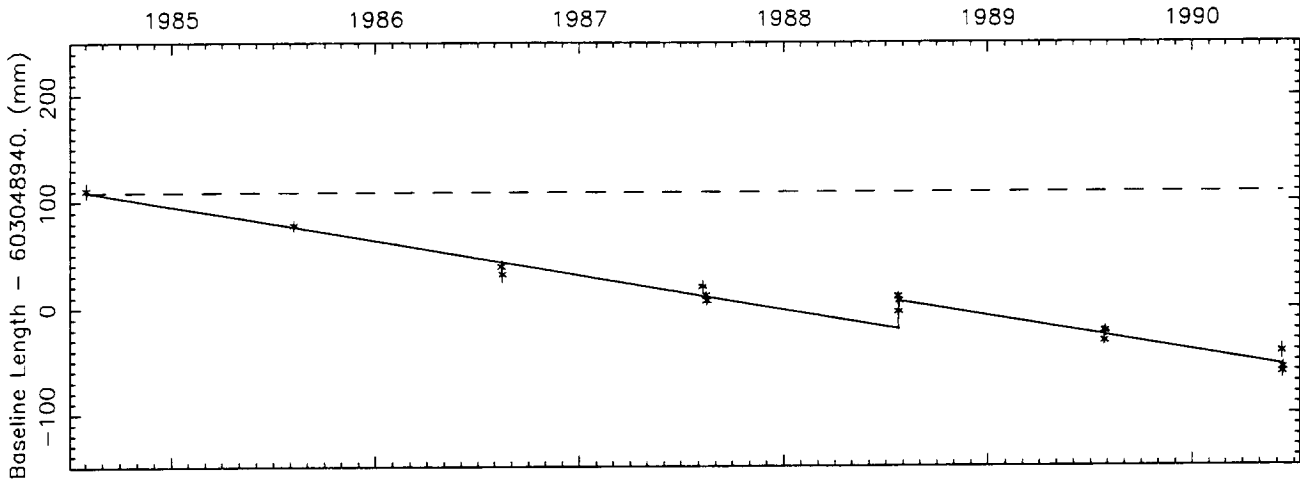
Number of sessions = 9



Vector baseline plots for GILCREEK-YAKATAGA

Baseline length = 603 kilometers

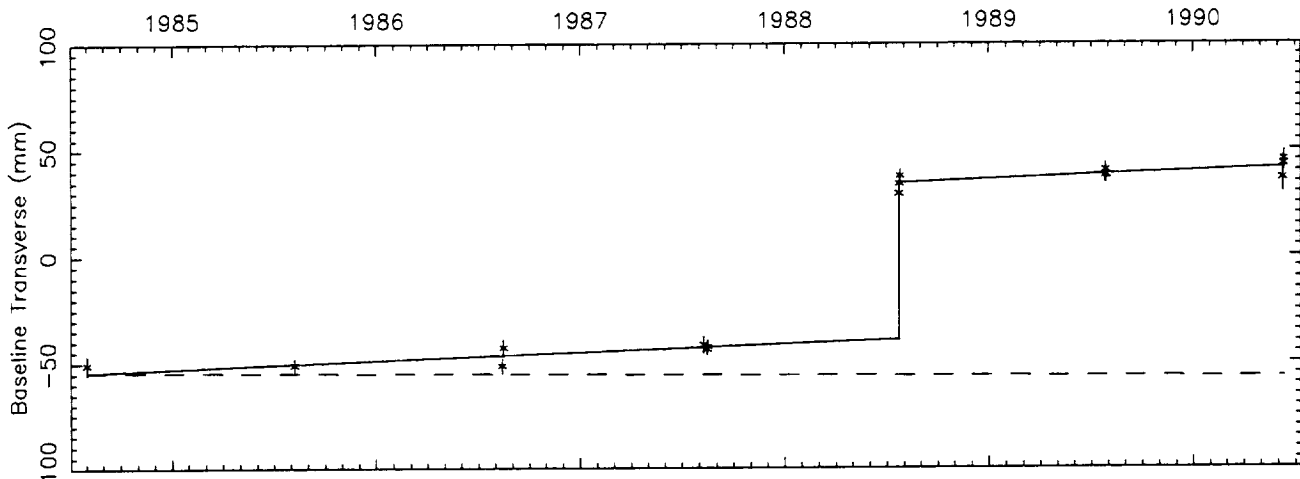
Number of sessions = 16



Observed Rate = -32.5 ± 1.8 mm/yr
 NUVEL model rate = $.0$ mm/yr

Wrms of fit = 5.3 mm
 Weighted mean length = 603048938.6 mm
 Offset = 26.4 ± 5.6 mm

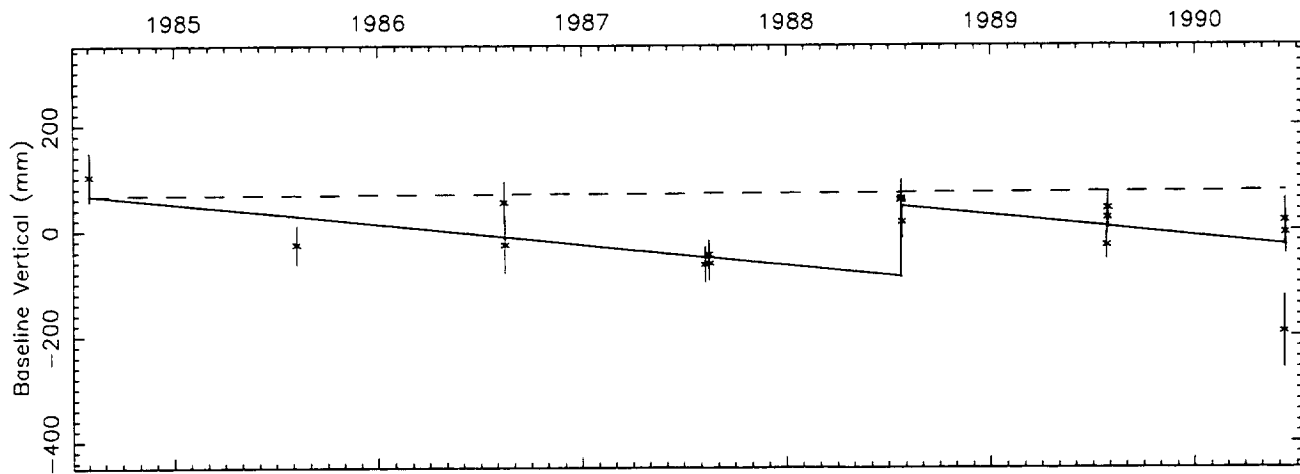
Reduced Chi square = 1.45



Observed Rate = $3.8 \pm .9$ mm/yr
 NUVEL model rate = $-.5$ mm/yr

Wrms of fit = 2.7 mm
 Offset = 73.4 ± 2.7 mm

Reduced Chi square = .70



Observed Rate = -38.9 ± 12.2 mm/yr
 NUVEL model rate = 1.3 mm/yr

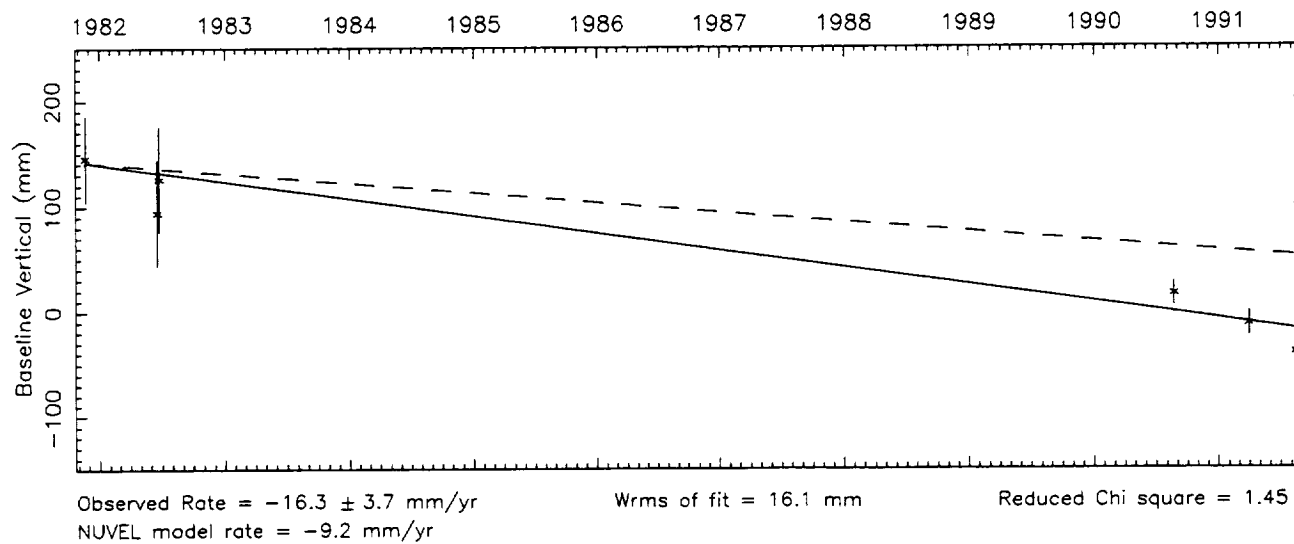
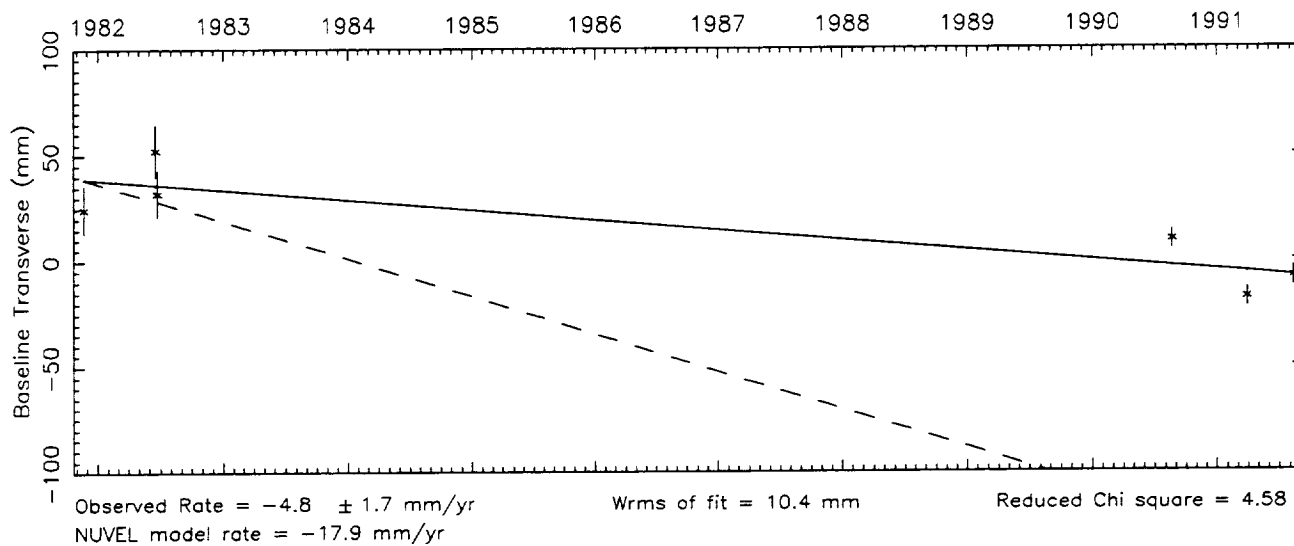
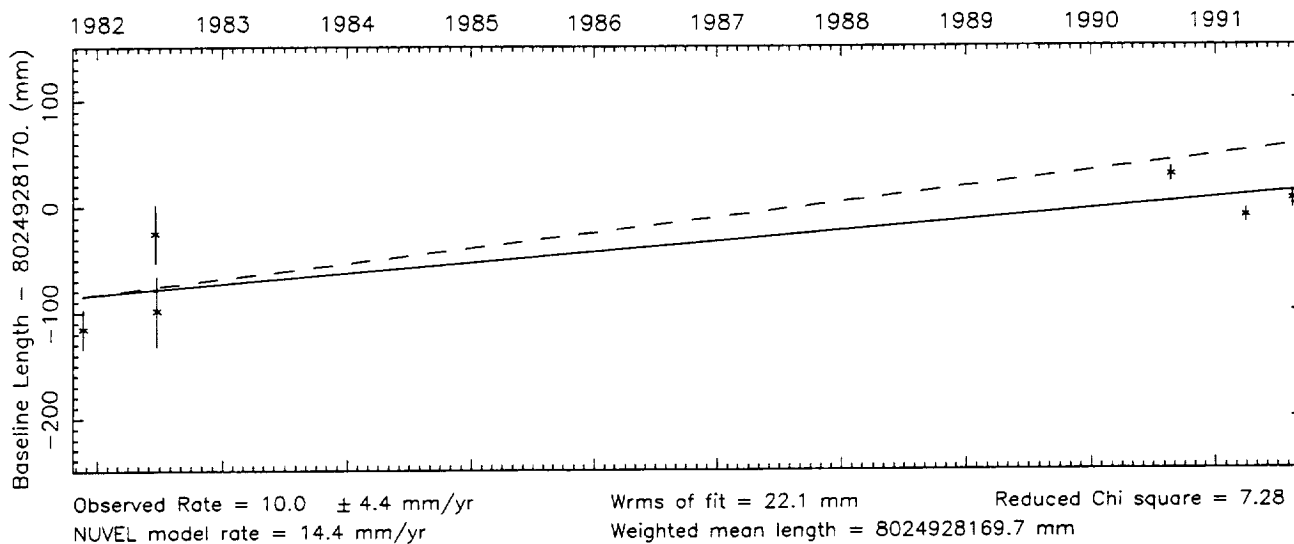
Wrms of fit = 36.6 mm
 Offset = 133.7 ± 36.3 mm

Reduced Chi square = 1.37

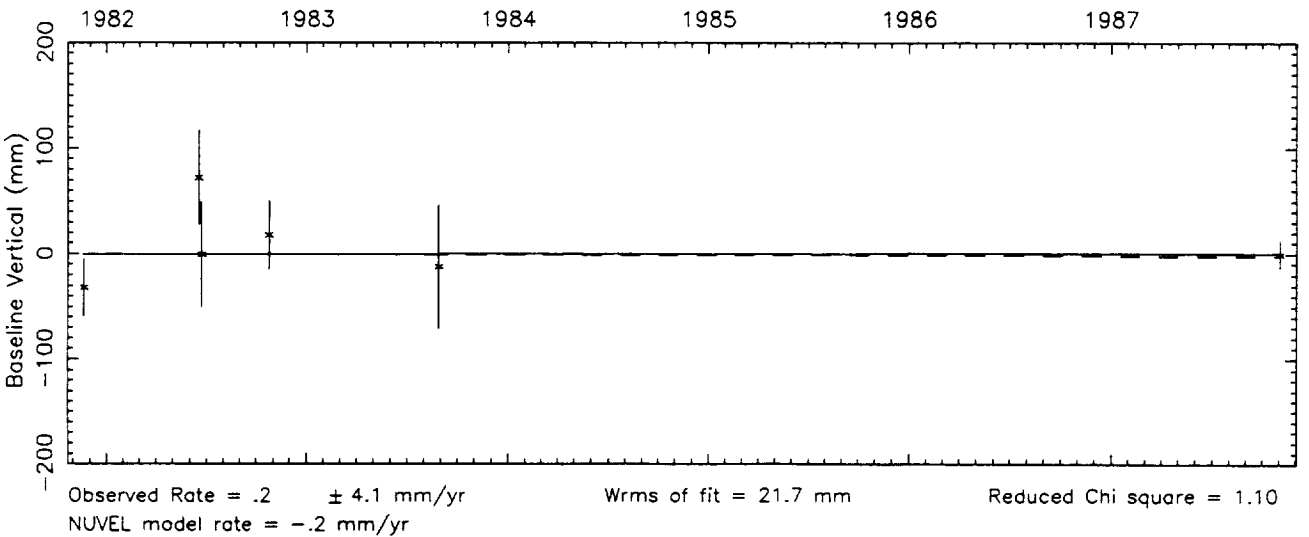
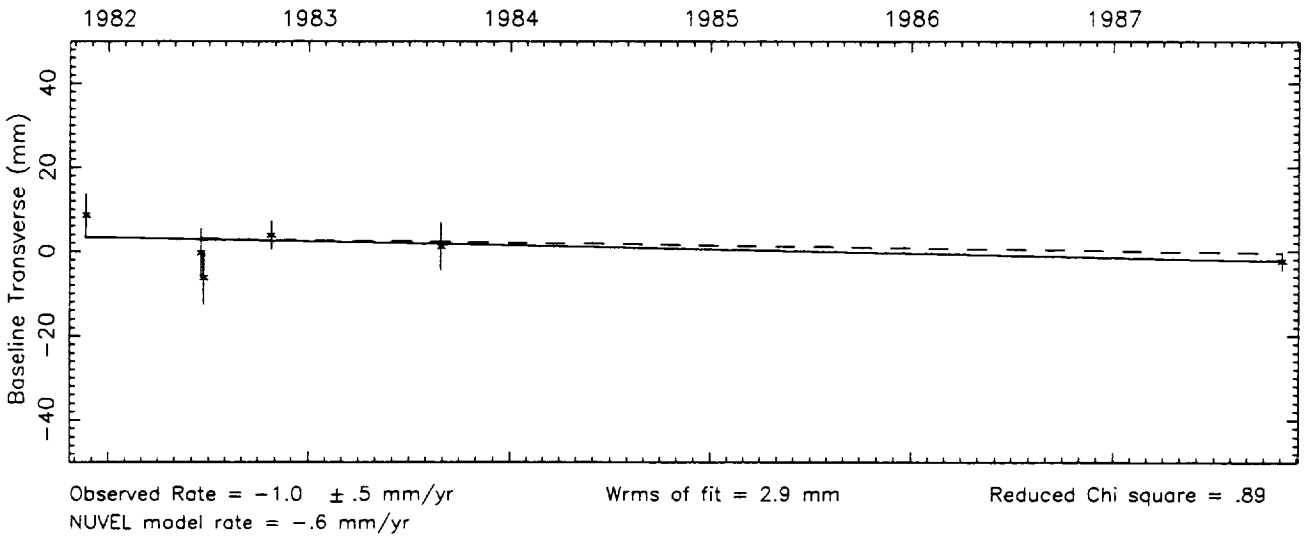
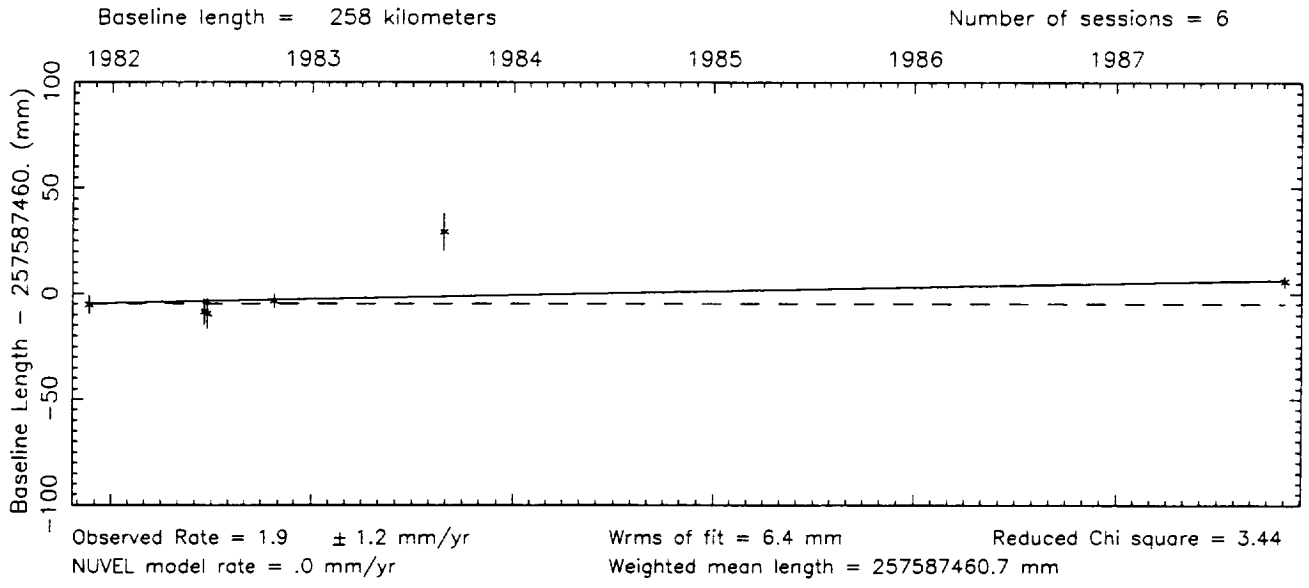
Vector baseline plots for GOLDVENU-ONSALA60

Baseline length = 8025 kilometers

Number of sessions = 6



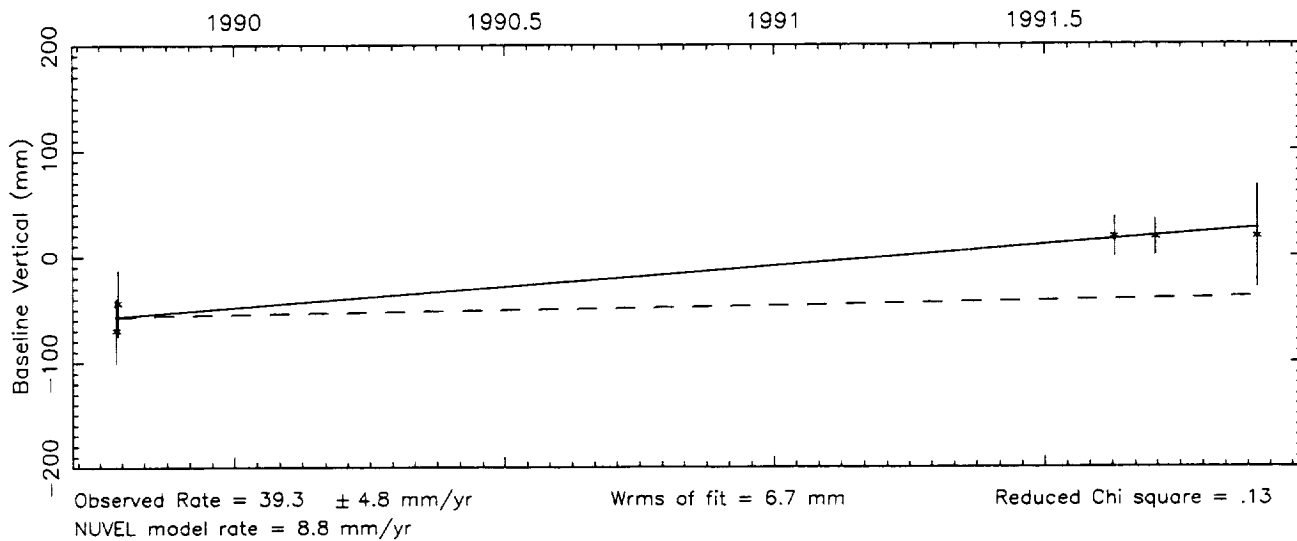
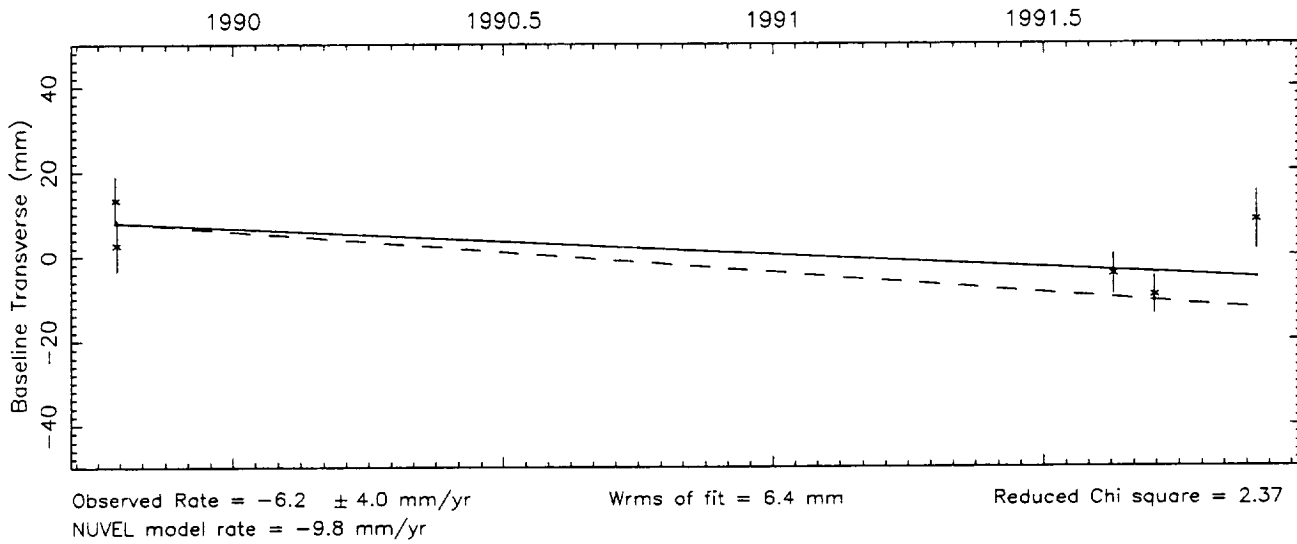
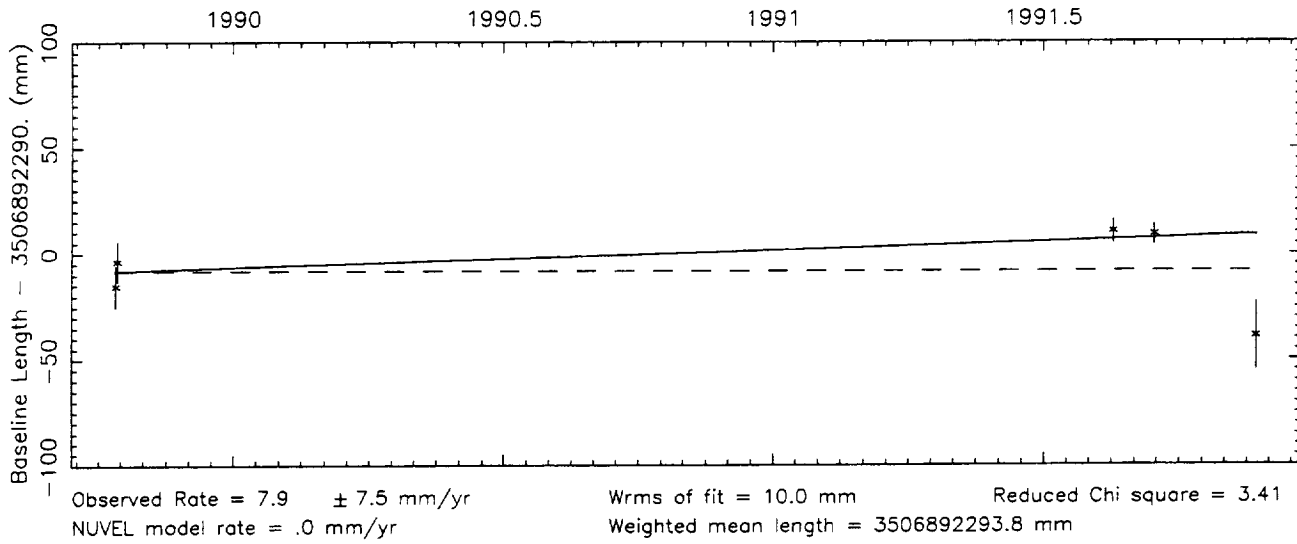
Vector baseline plots for GOLDVENU-OVRO 130



Vector baseline plots for GORF7102-MOJAVE12

Baseline length = 3507 kilometers

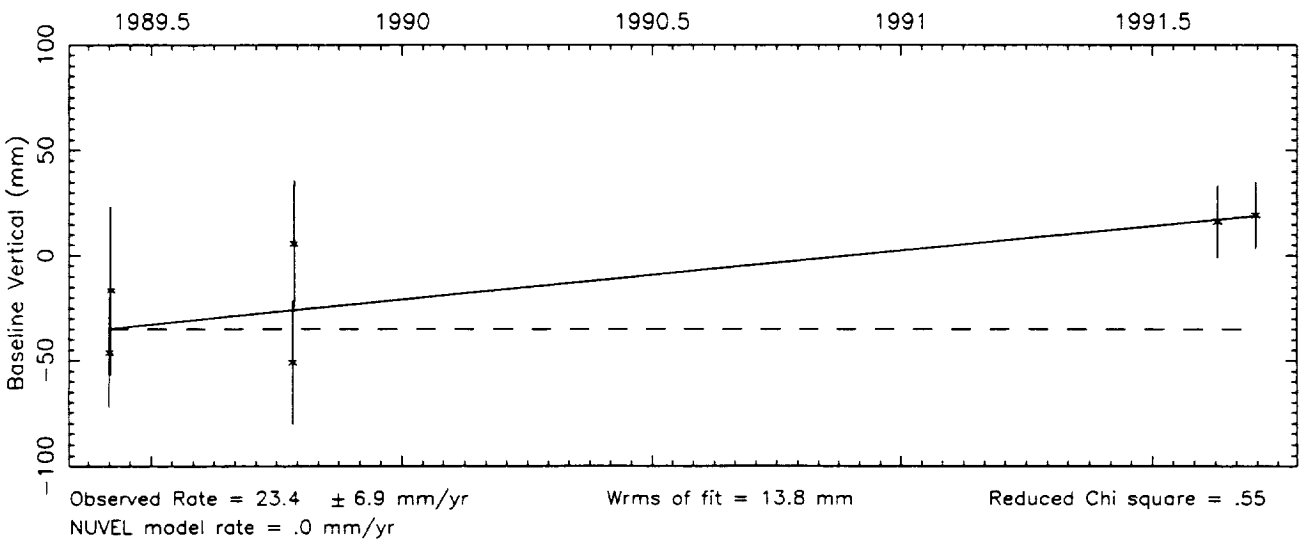
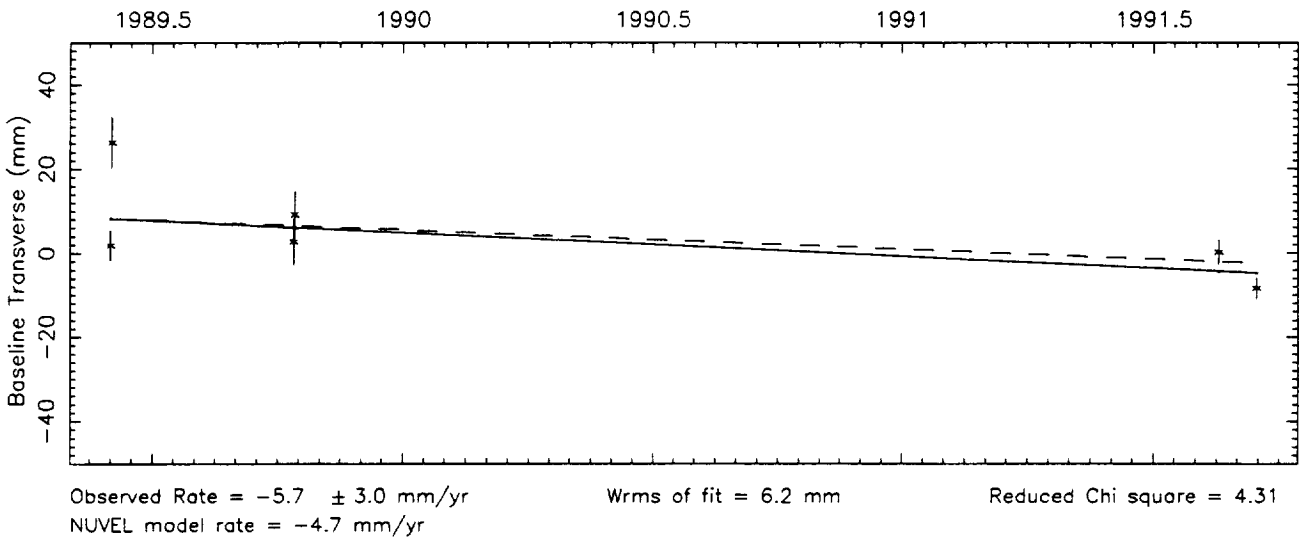
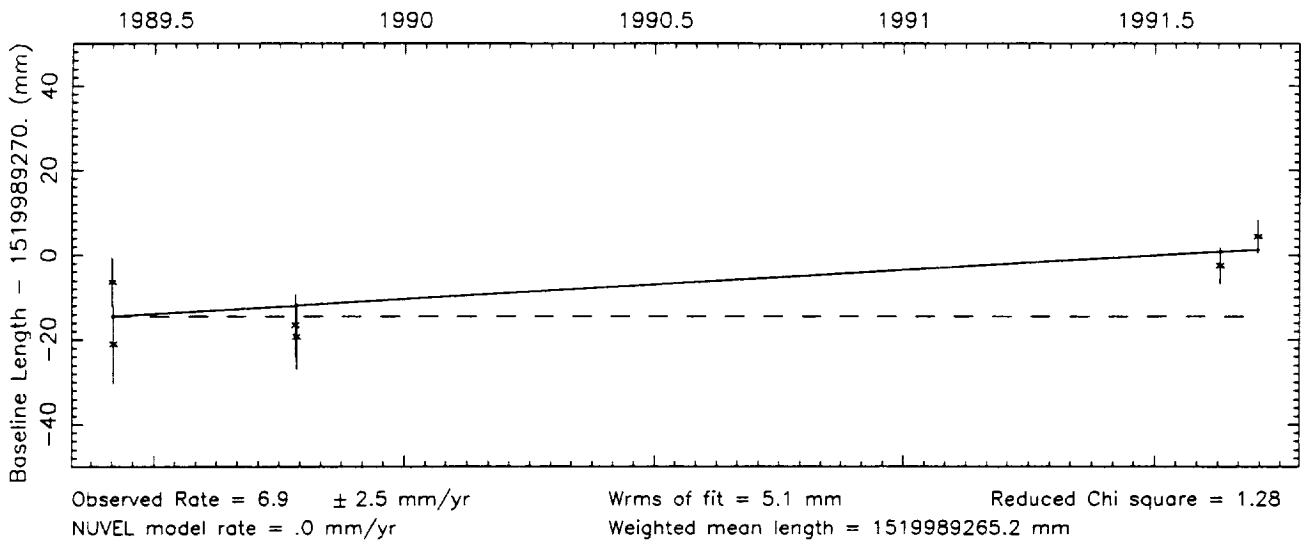
Number of sessions = 5



Vector baseline plots for GORF7102-RICHMOND

Baseline length = 1520 kilometers

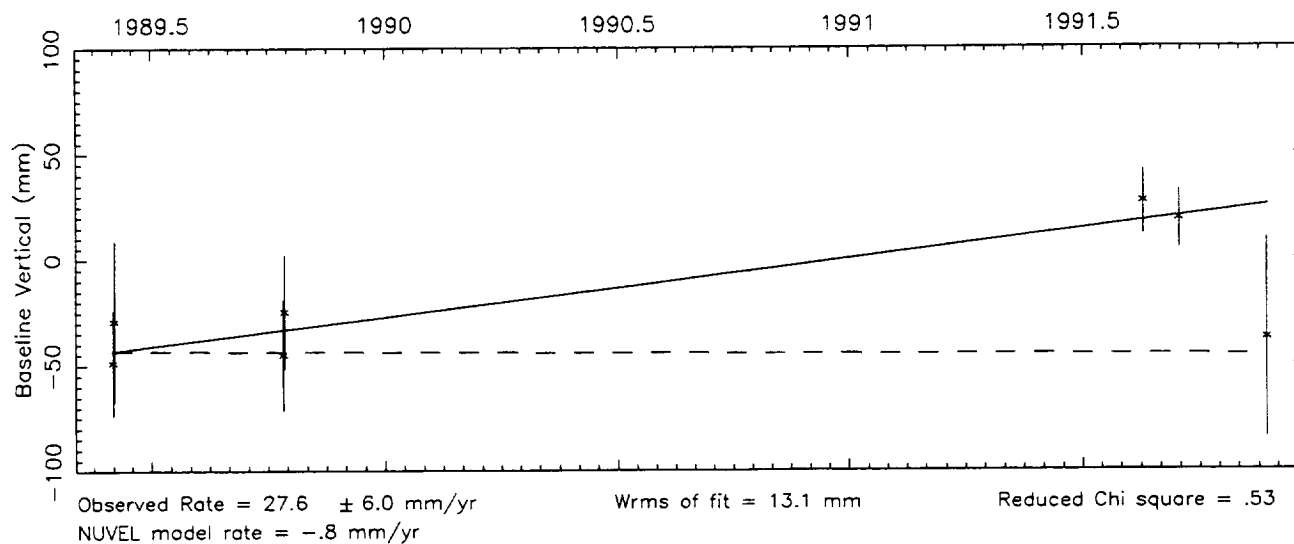
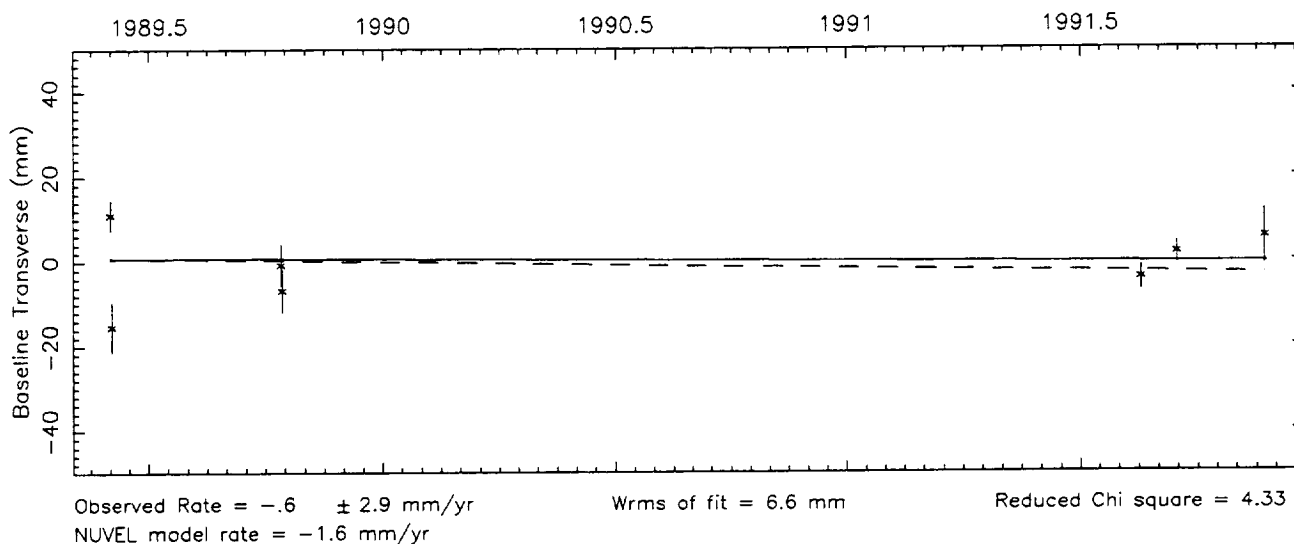
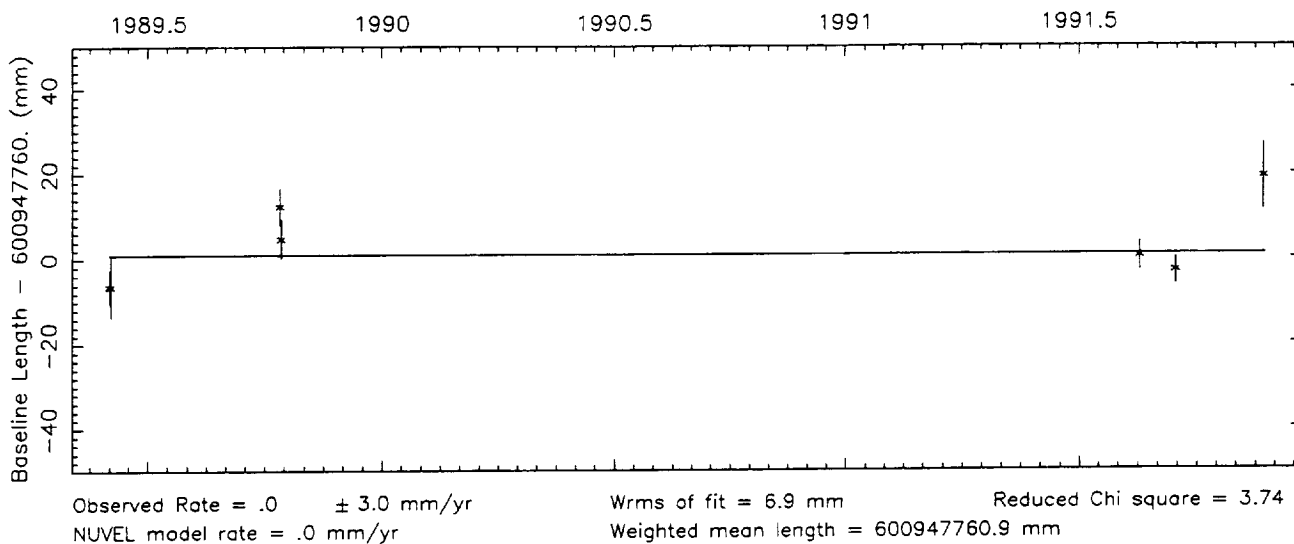
Number of sessions = 6



Vector baseline plots for GORF7102-WESTFORD

Baseline length = 601 kilometers

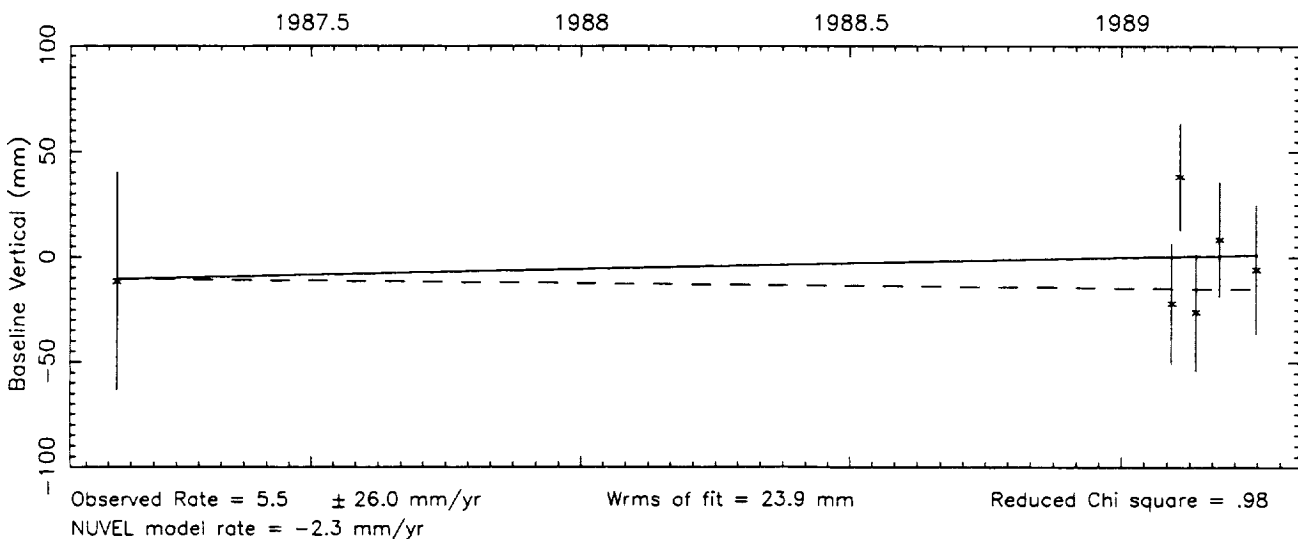
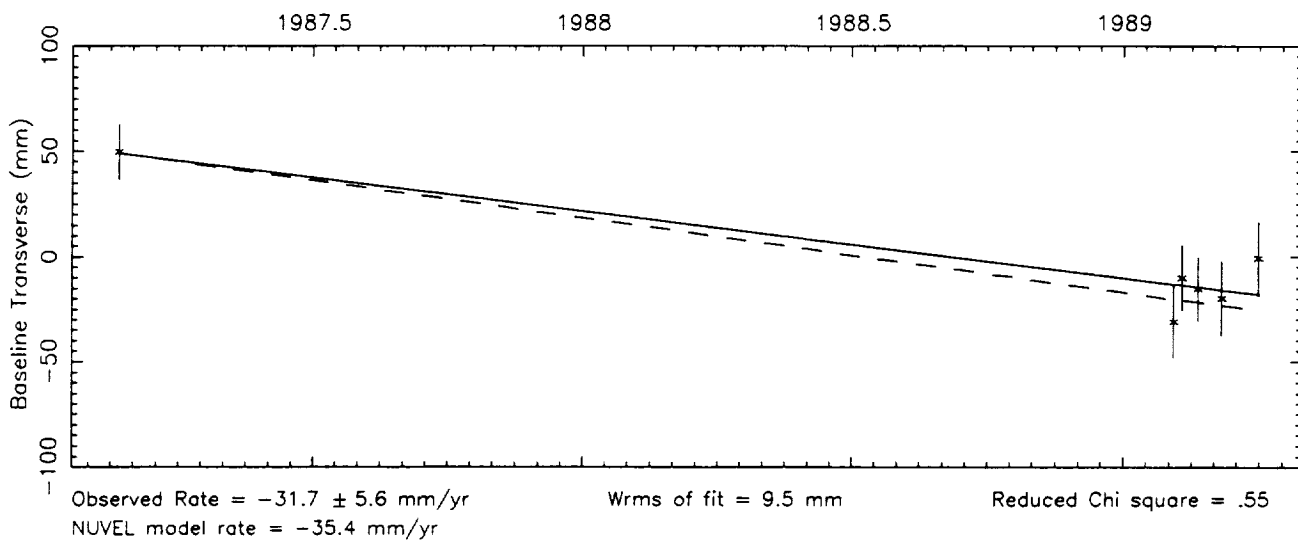
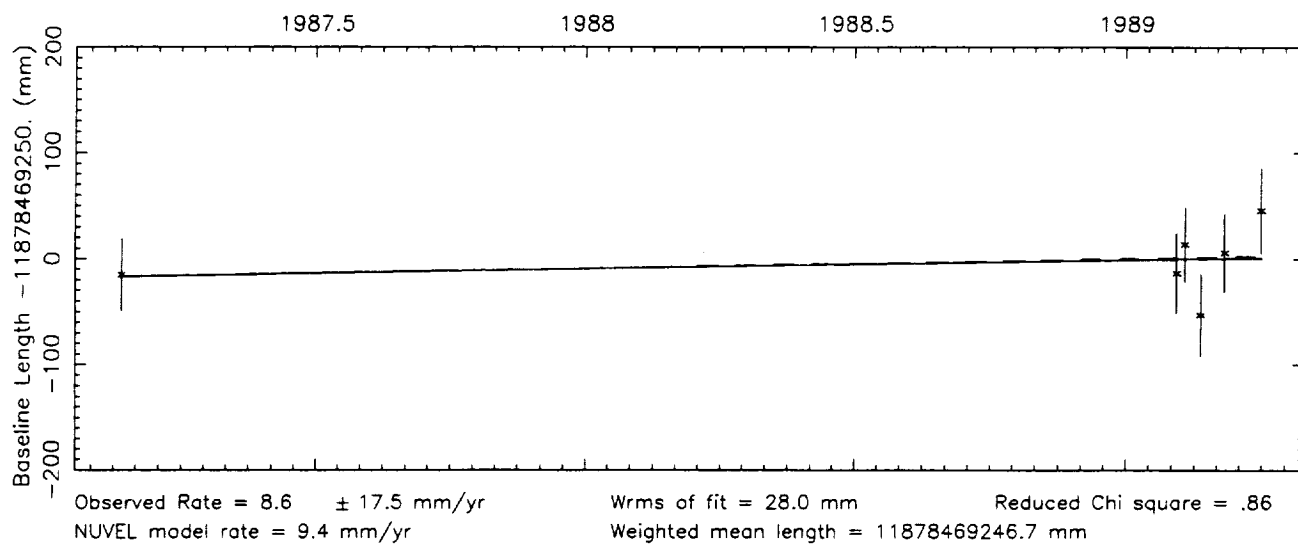
Number of sessions = 7



Vector baseline plots for HARTRAO - HRAS 085

Baseline length = 11878 kilometers

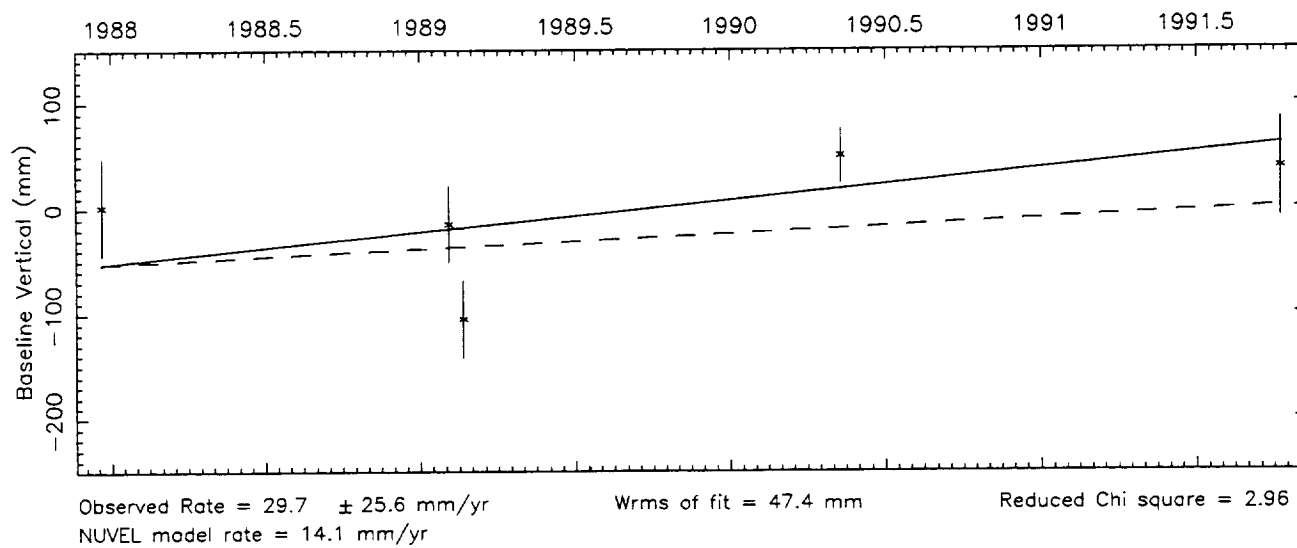
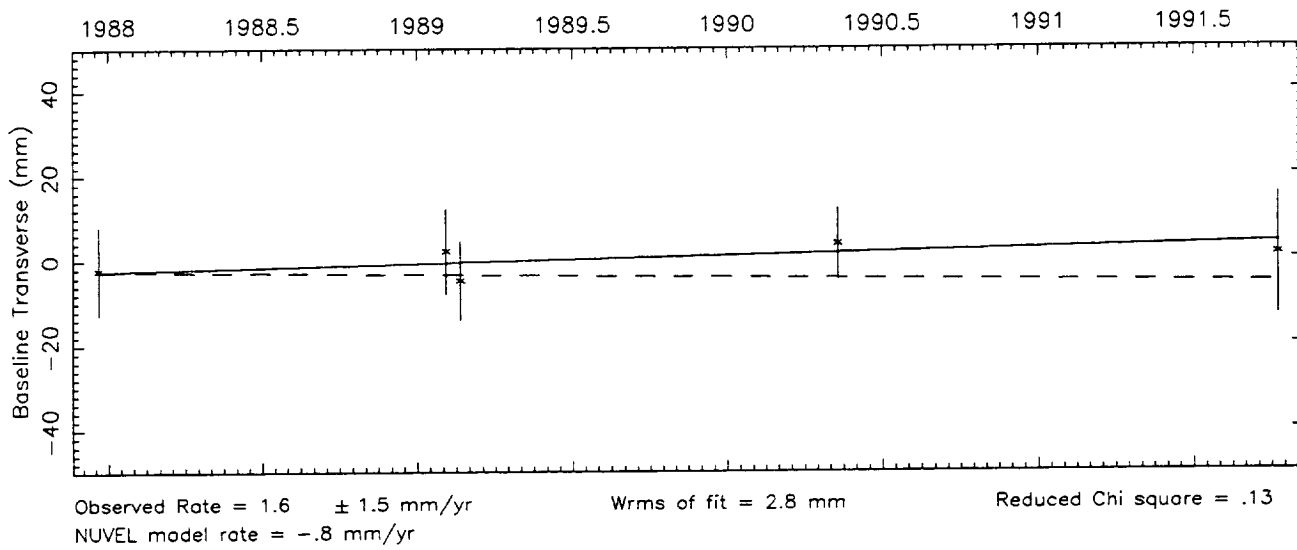
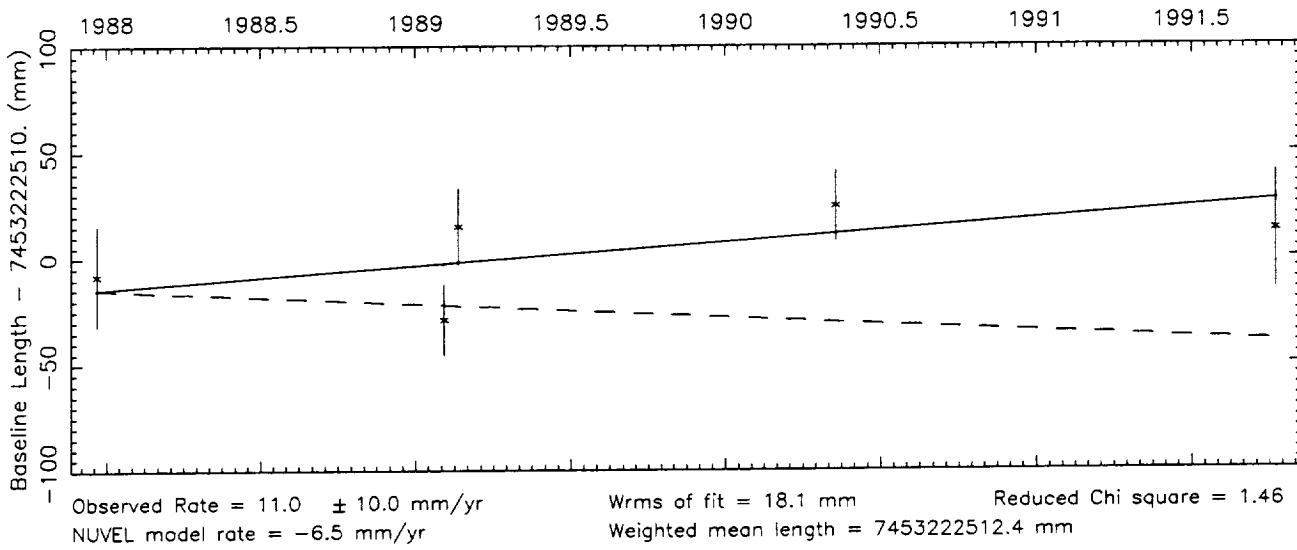
Number of sessions = 6



Vector baseline plots for HARTRAO -MEDICINA

Baseline length = 7453 kilometers

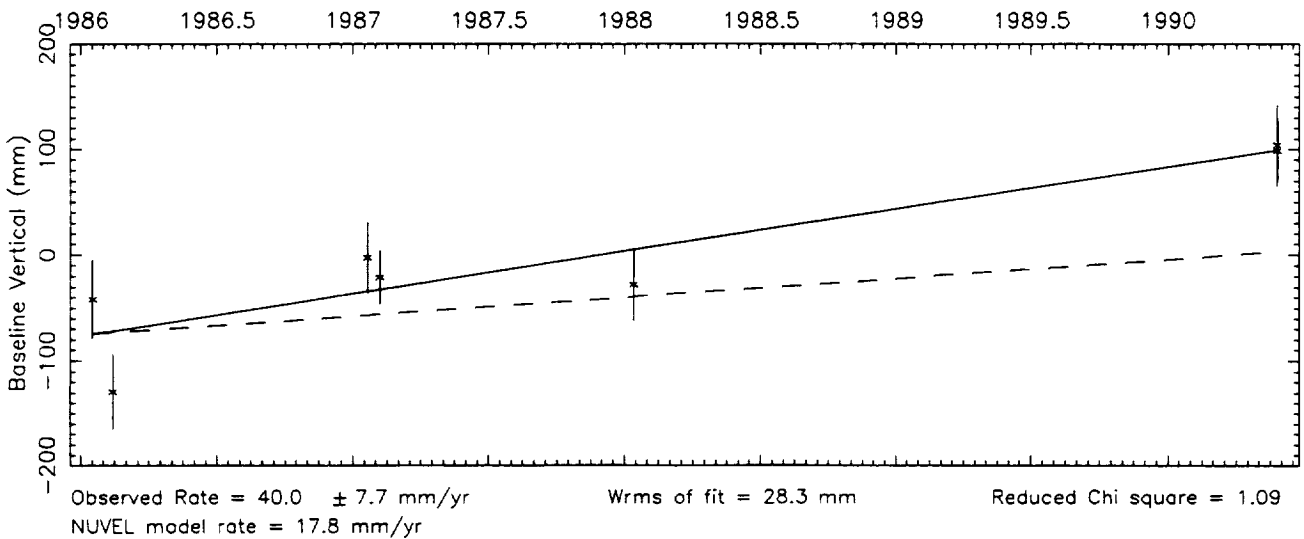
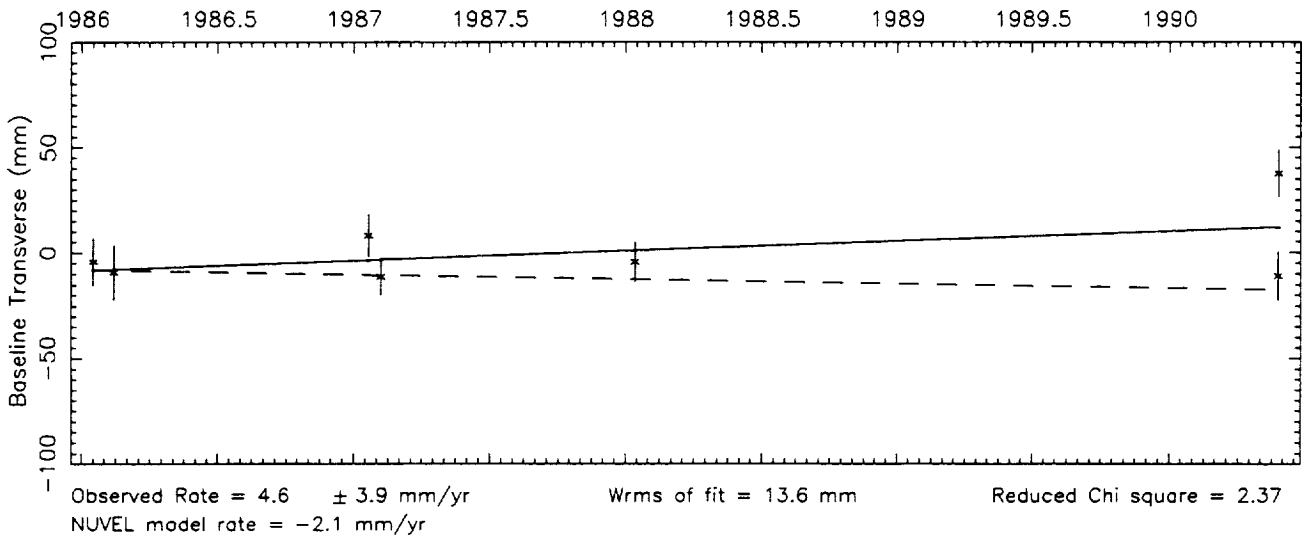
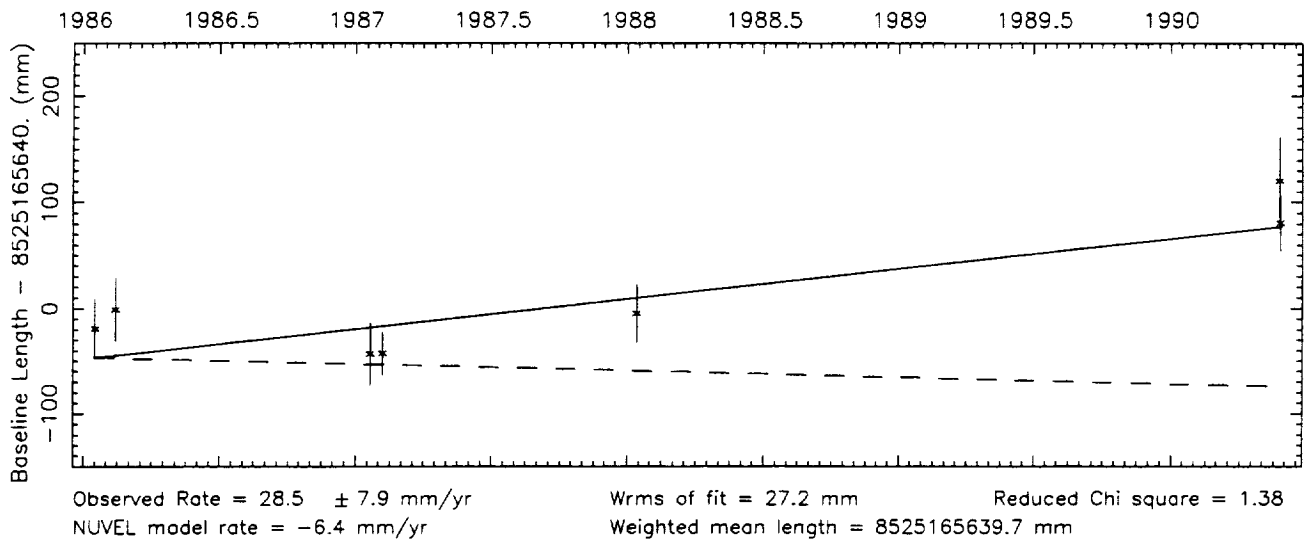
Number of sessions = 5



Vector baseline plots for HARTRAO - ONSALA60

Baseline length = 8525 kilometers

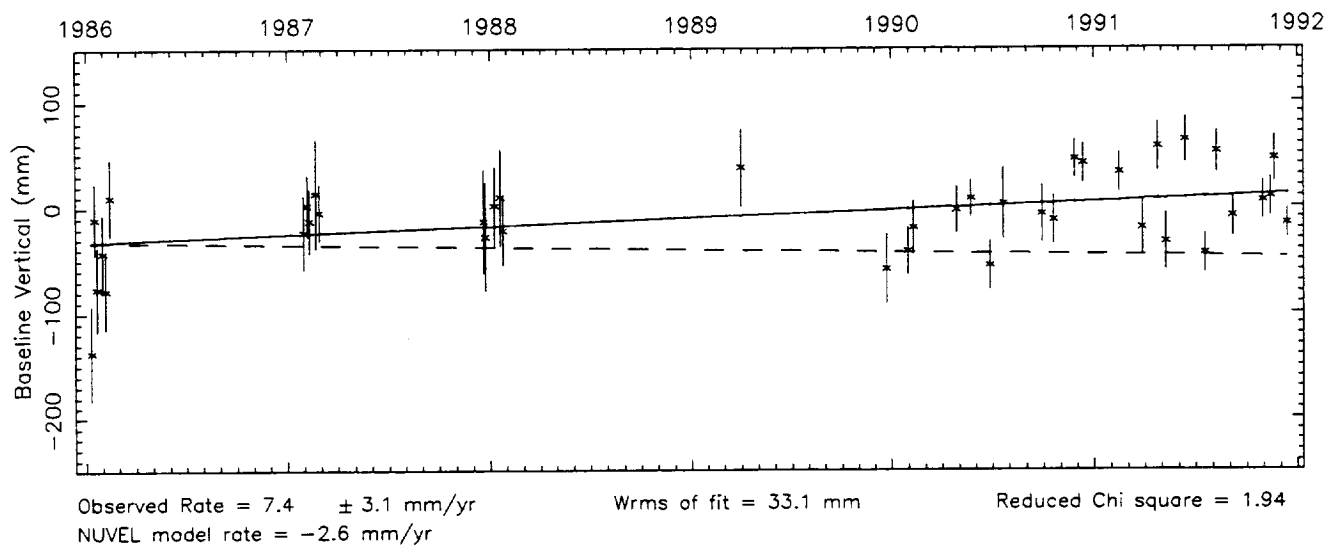
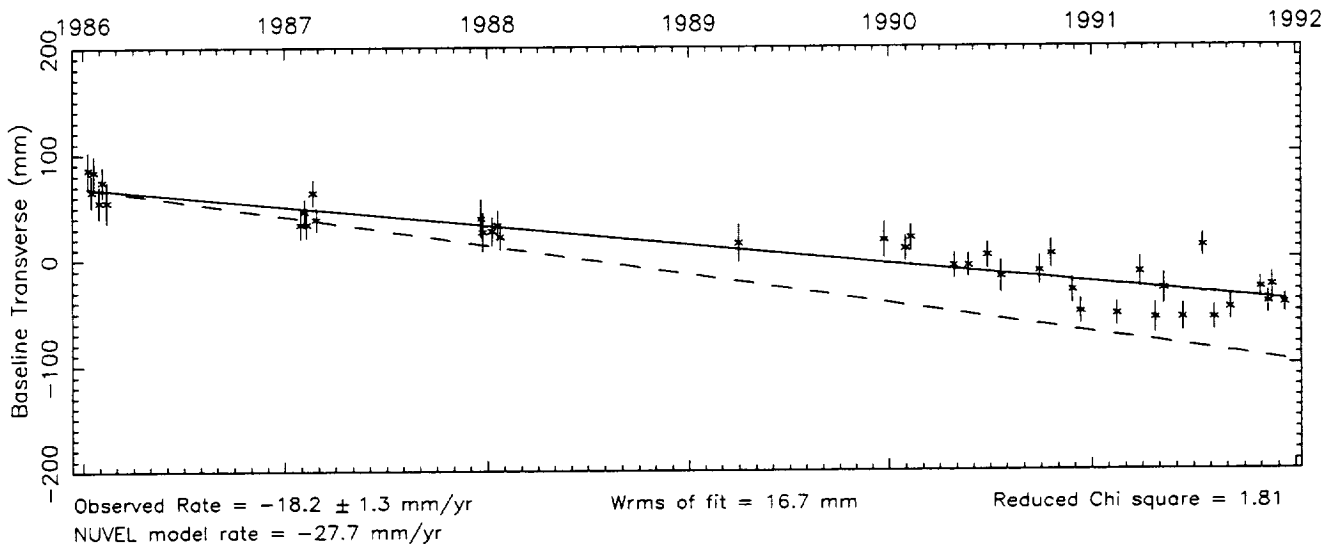
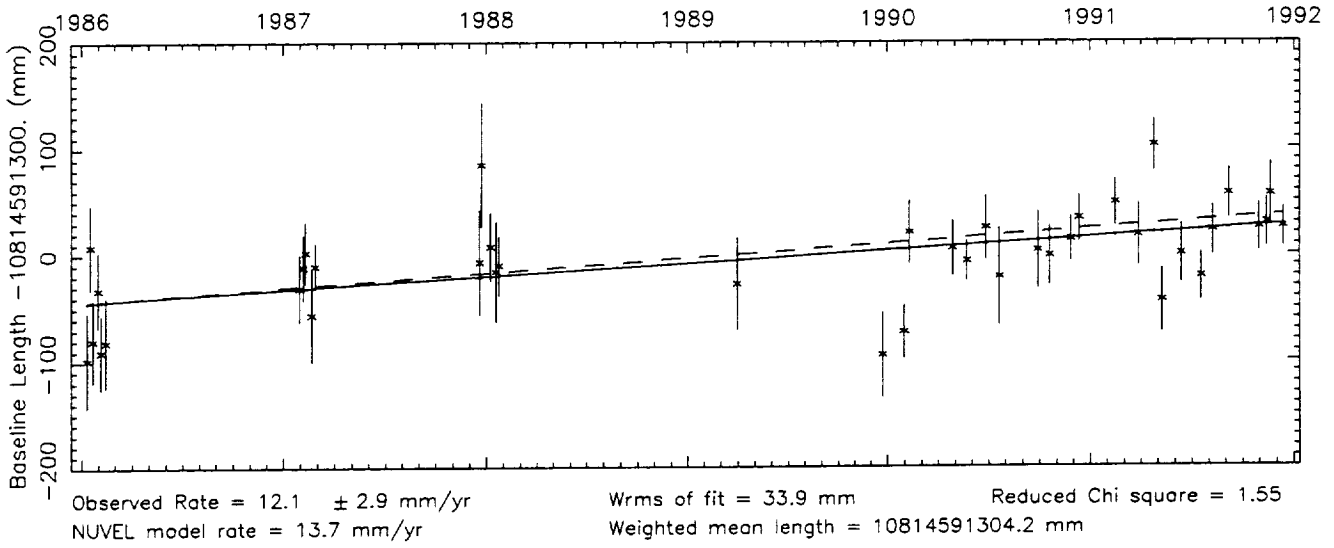
Number of sessions = 7



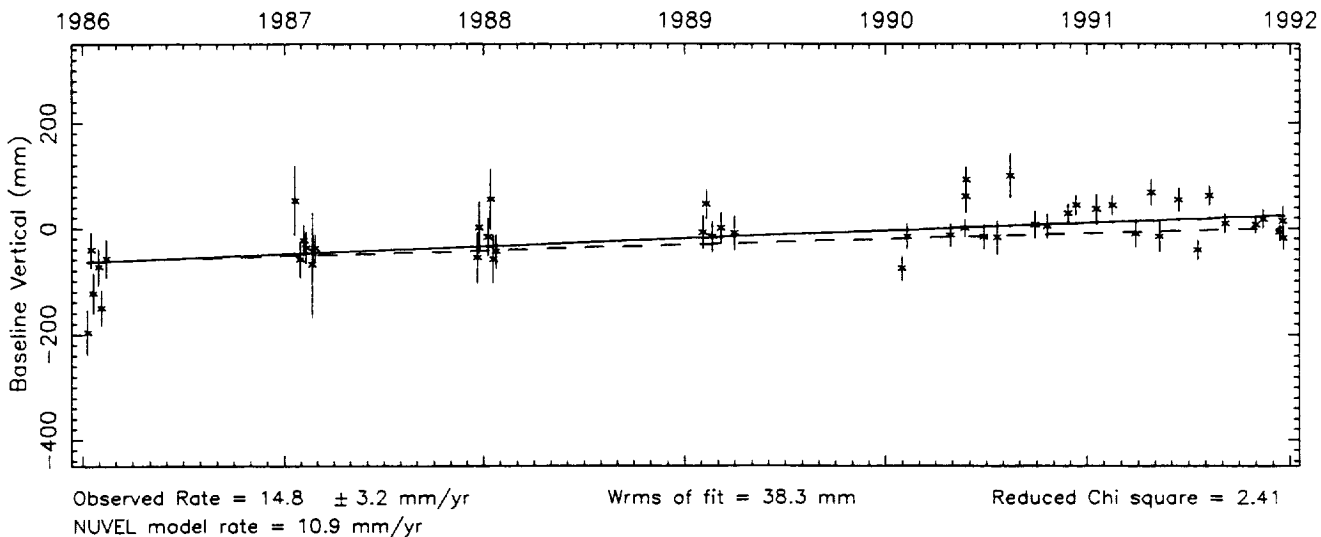
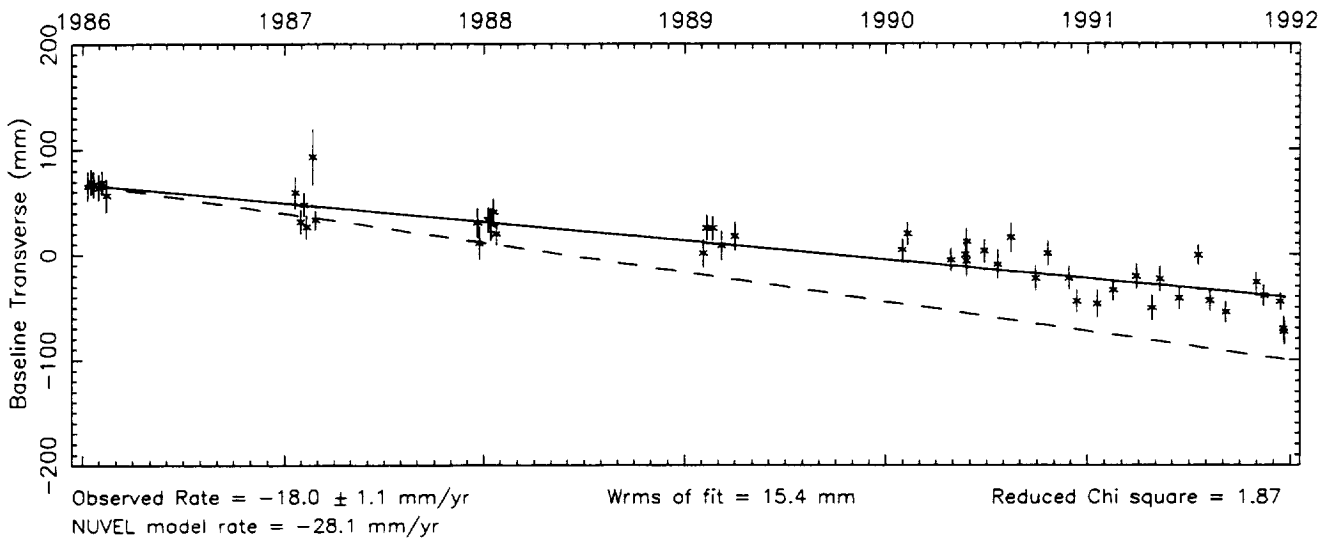
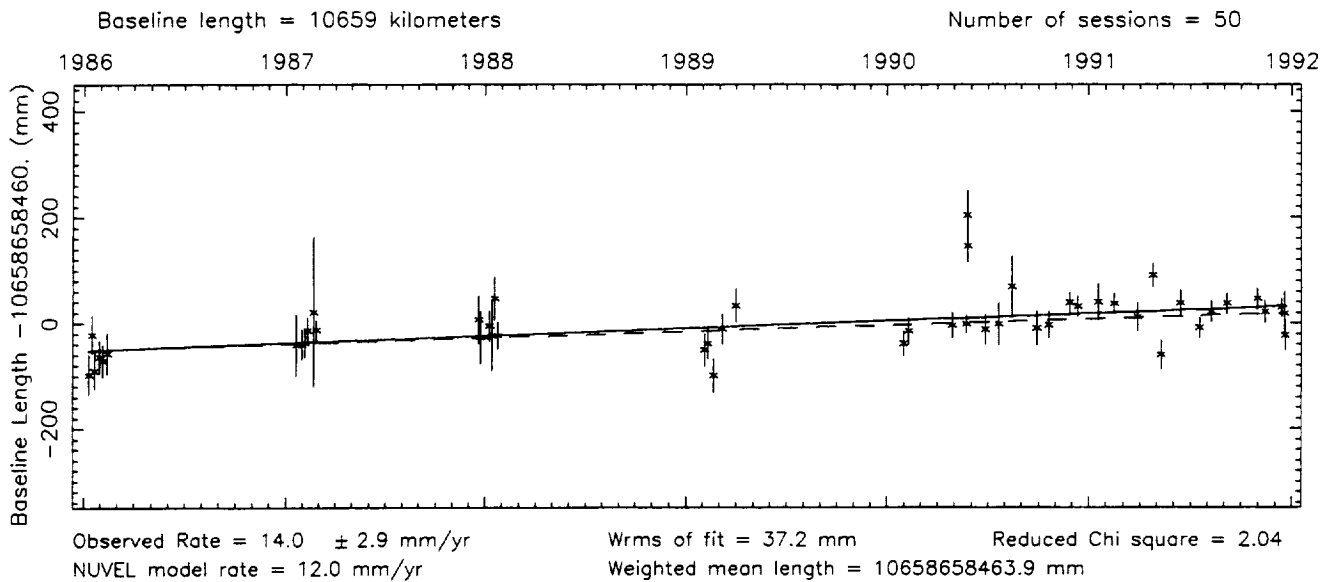
Vector baseline plots for HARTRAO -RICHMOND

Baseline length = 10815 kilometers

Number of sessions = 40



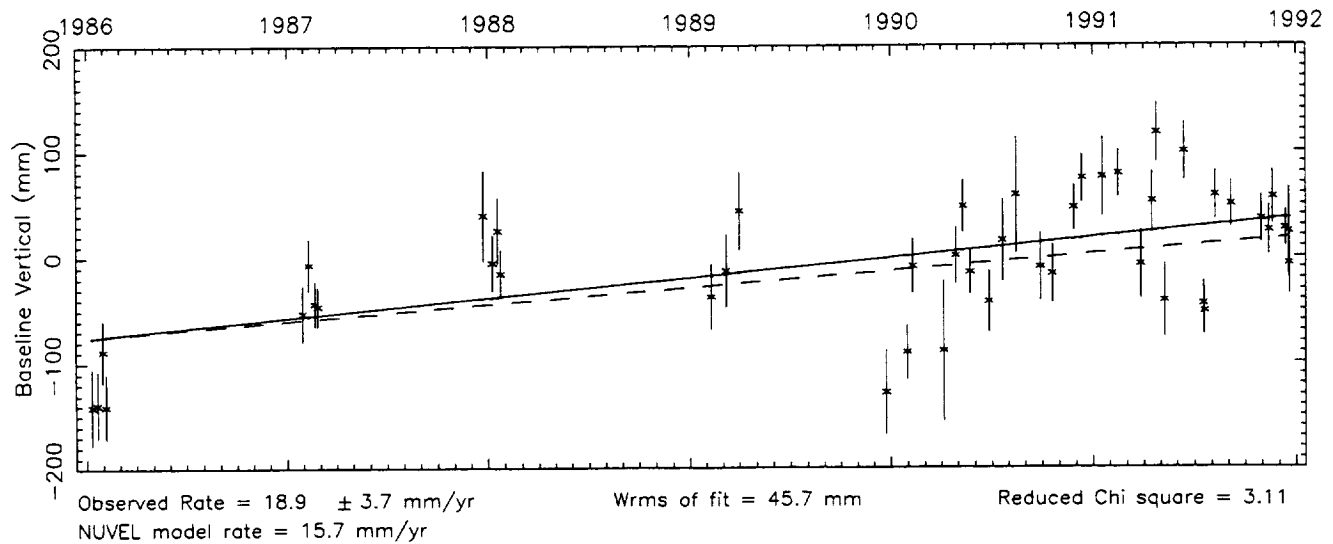
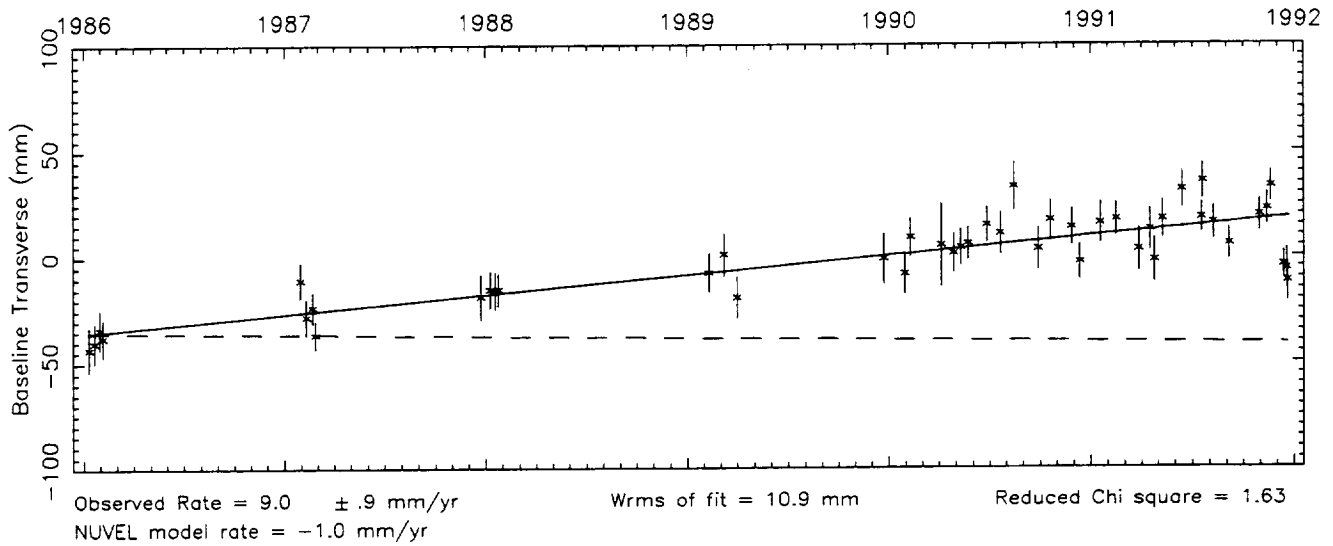
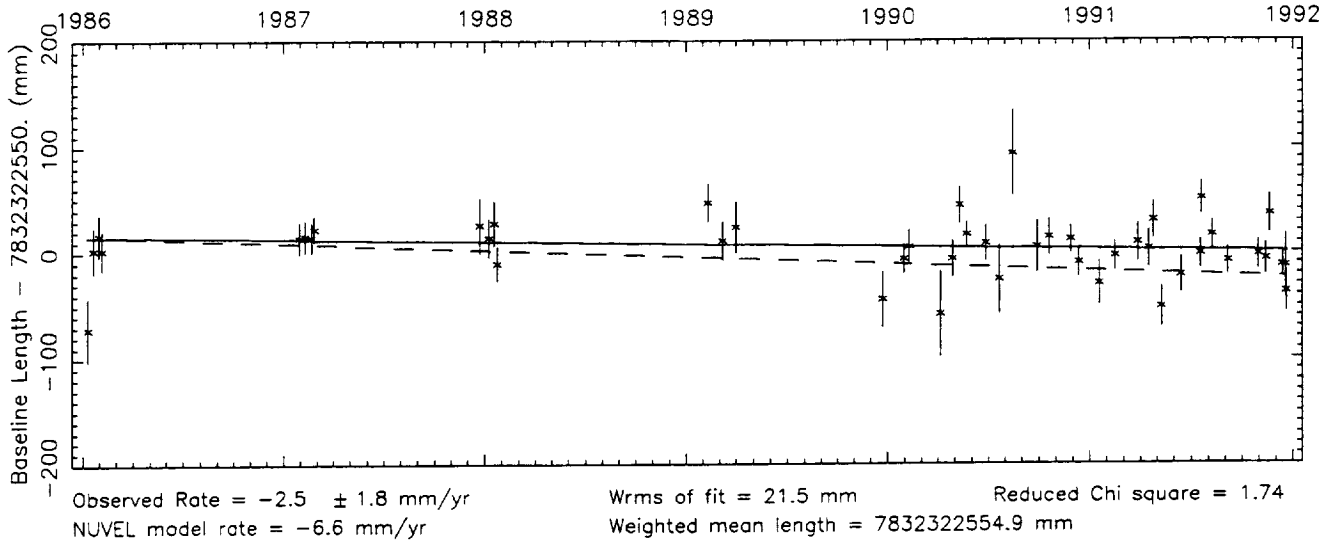
Vector baseline plots for HARTRAO –WESTFORD



Vector baseline plots for HARTRAO - WETTZELL

Baseline length = 7832 kilometers

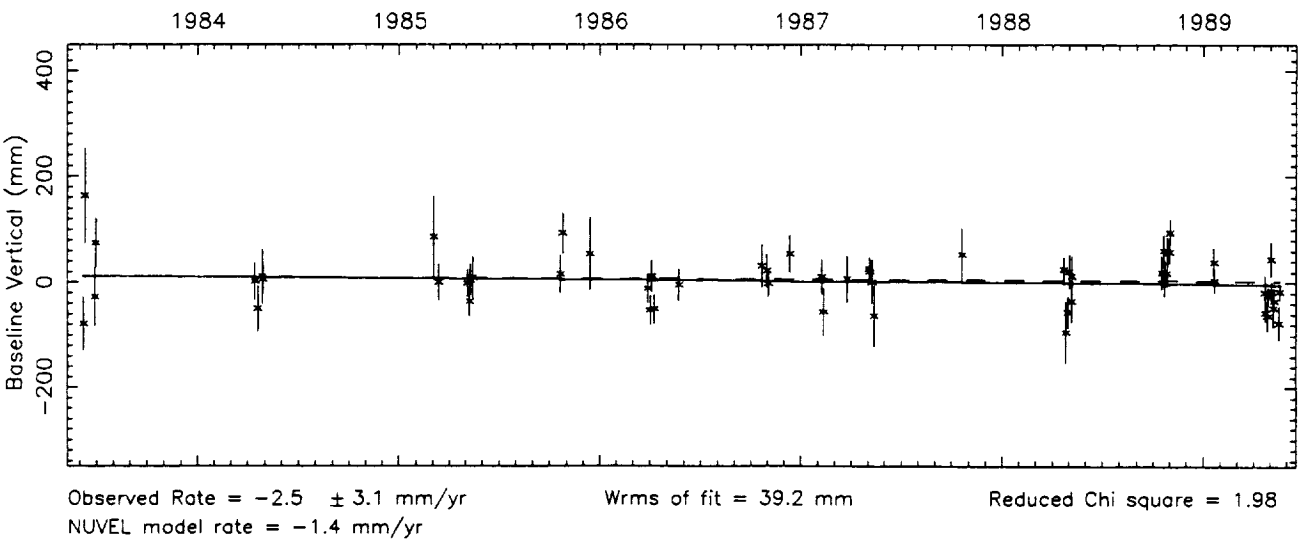
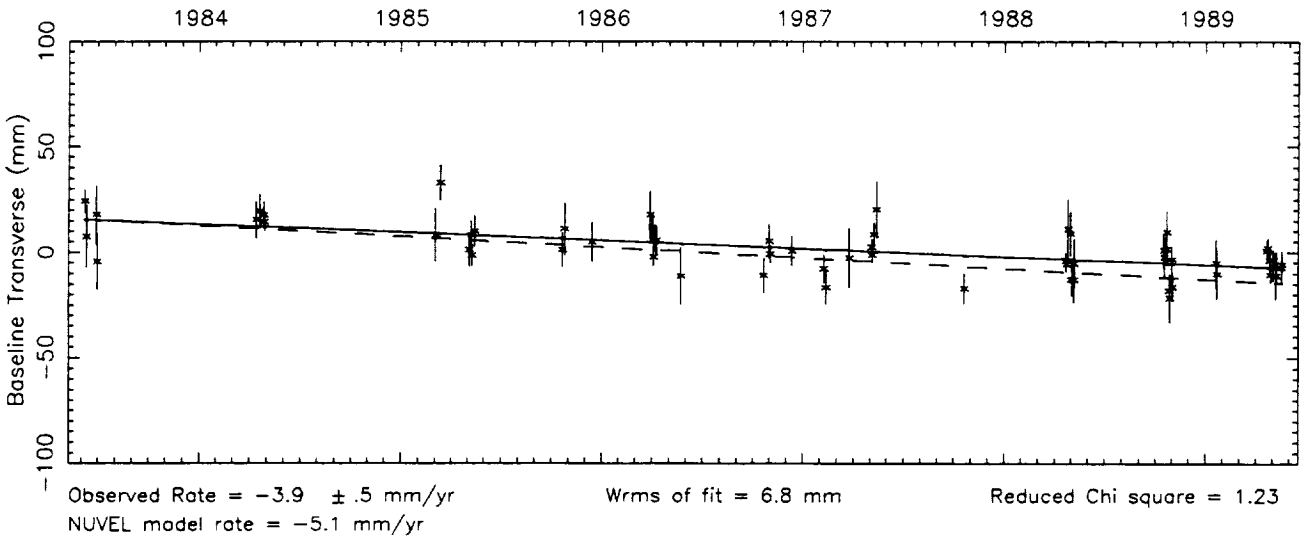
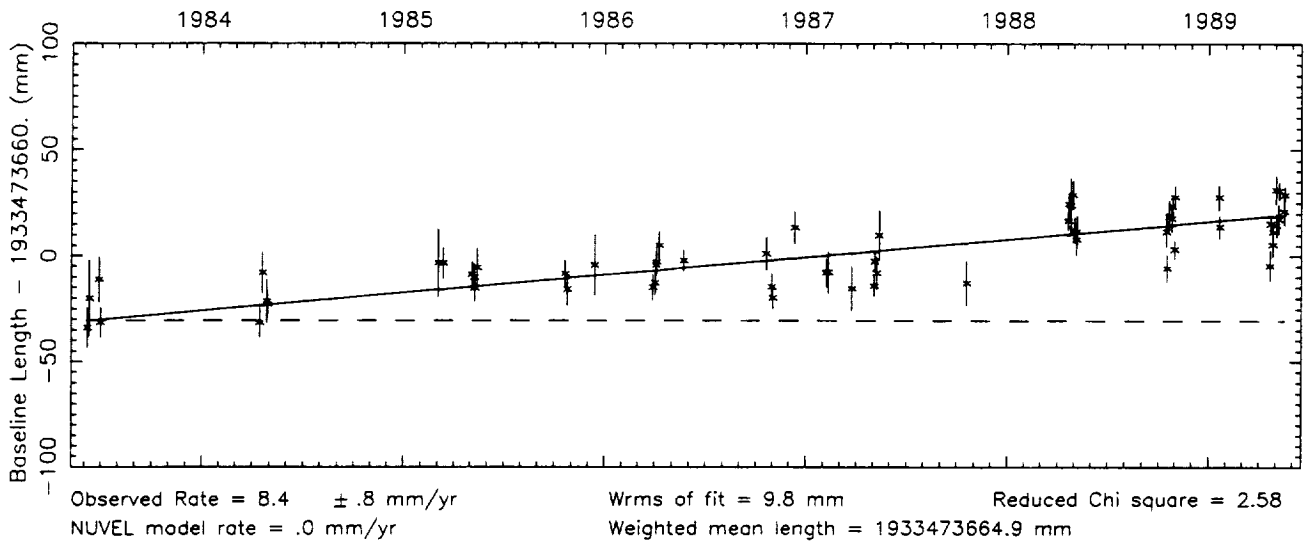
Number of sessions = 46



Vector baseline plots for HATCREEK-HRAS 085

Baseline length = 1933 kilometers

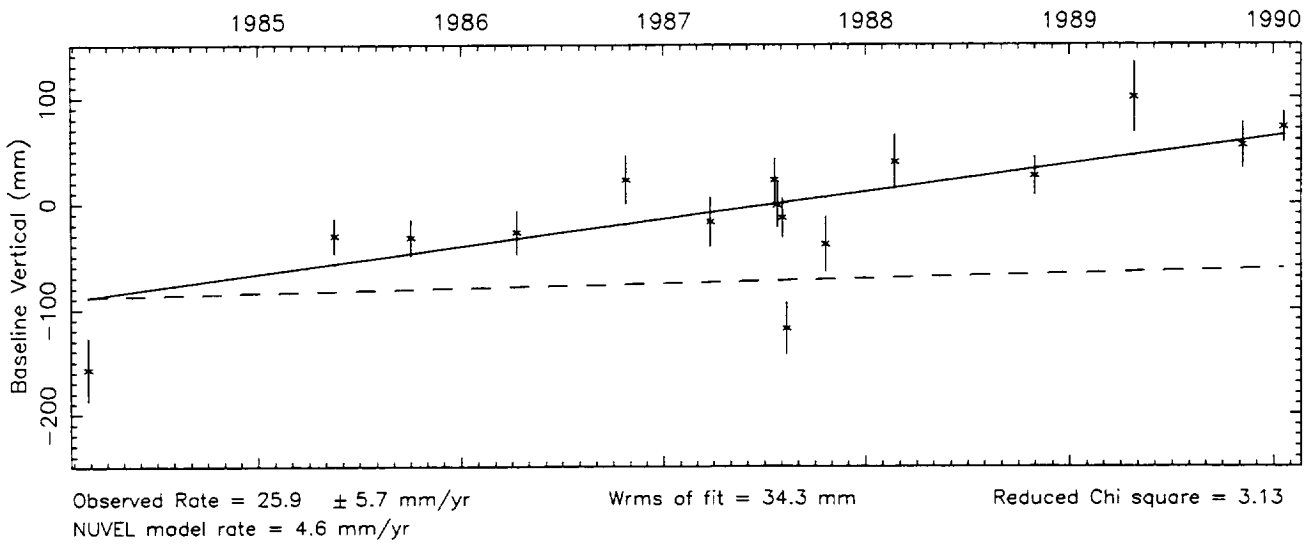
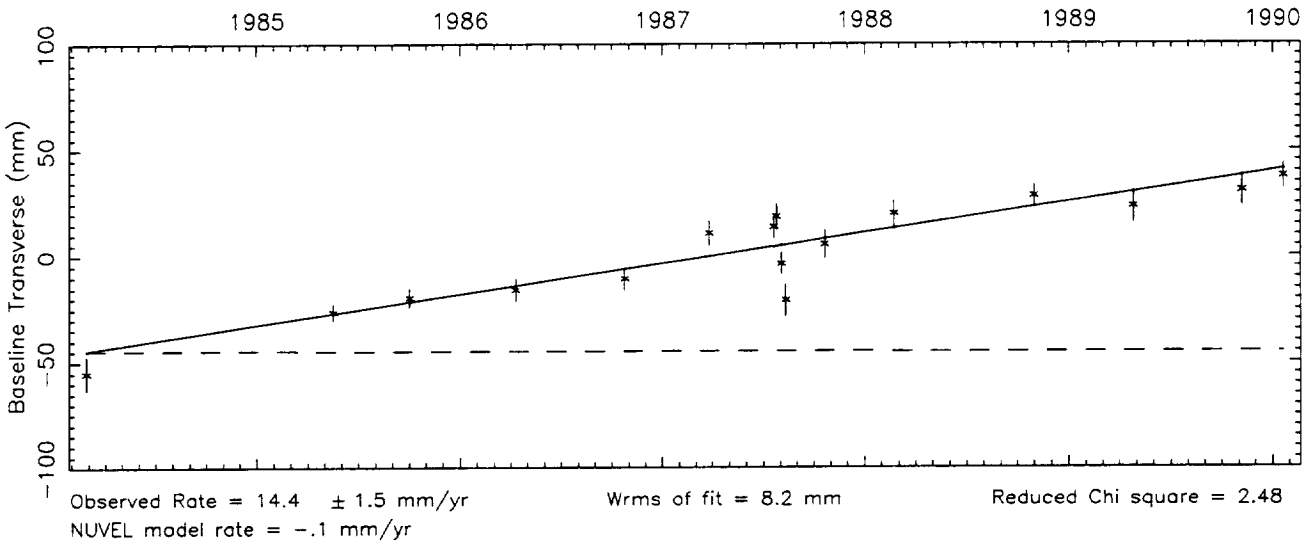
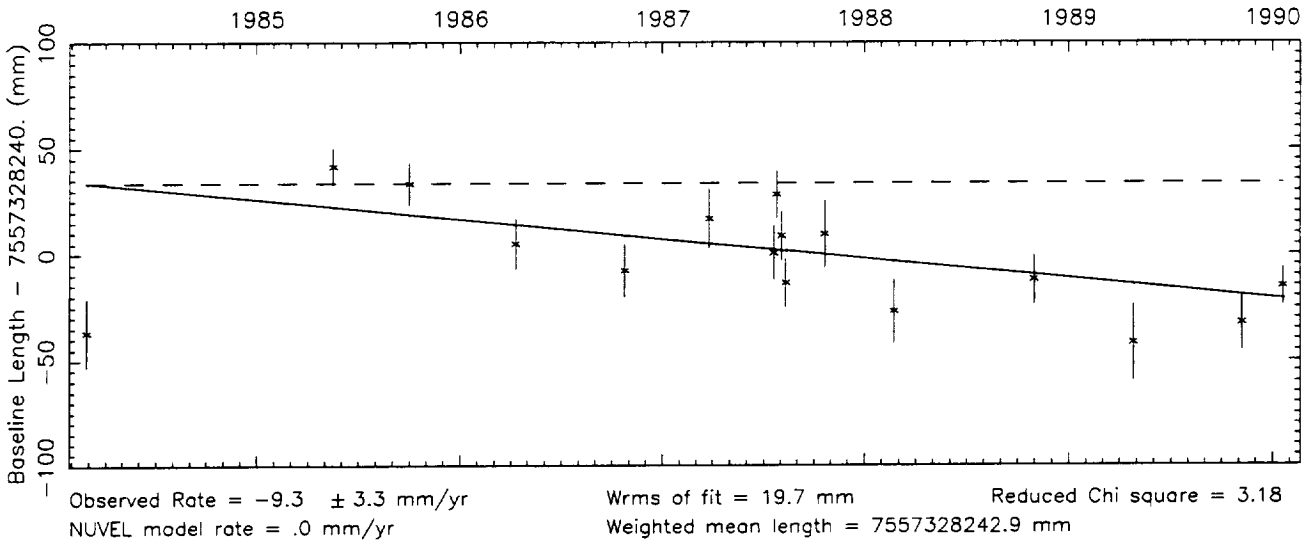
Number of sessions = 62



Vector baseline plots for HATCREEK-KASHIMA

Baseline length = 7557 kilometers

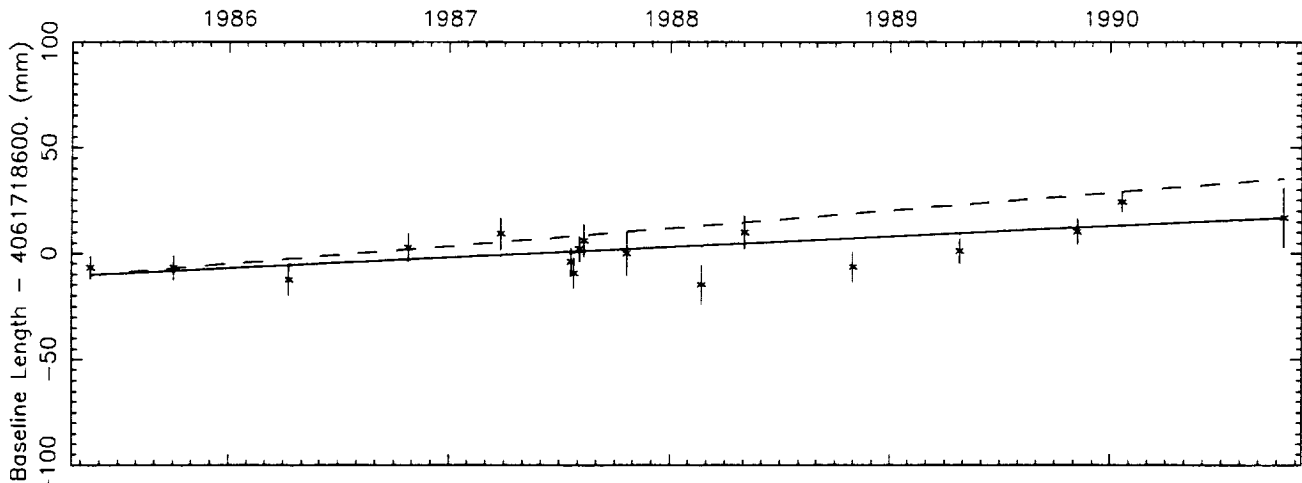
Number of sessions = 16



Vector baseline plots for HATCREEK-KAUAI

Baseline length = 4062 kilometers

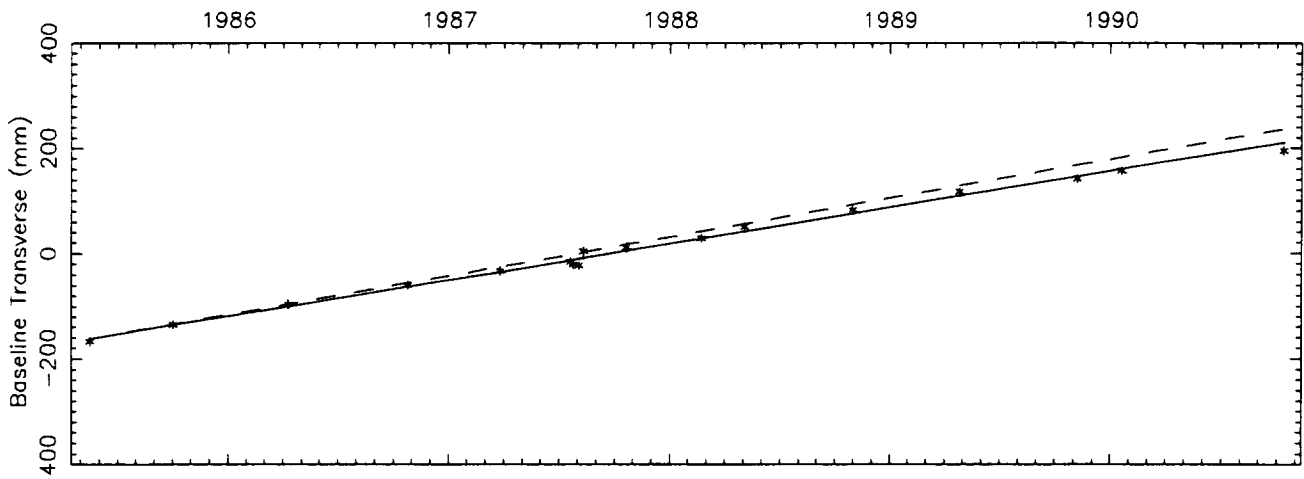
Number of sessions = 17



Observed Rate = 5.0 ± 1.3 mm/yr
 NUVEL model rate = 8.4 mm/yr

Wrms of fit = 7.8 mm
 Weighted mean length = 4061718602.1 mm

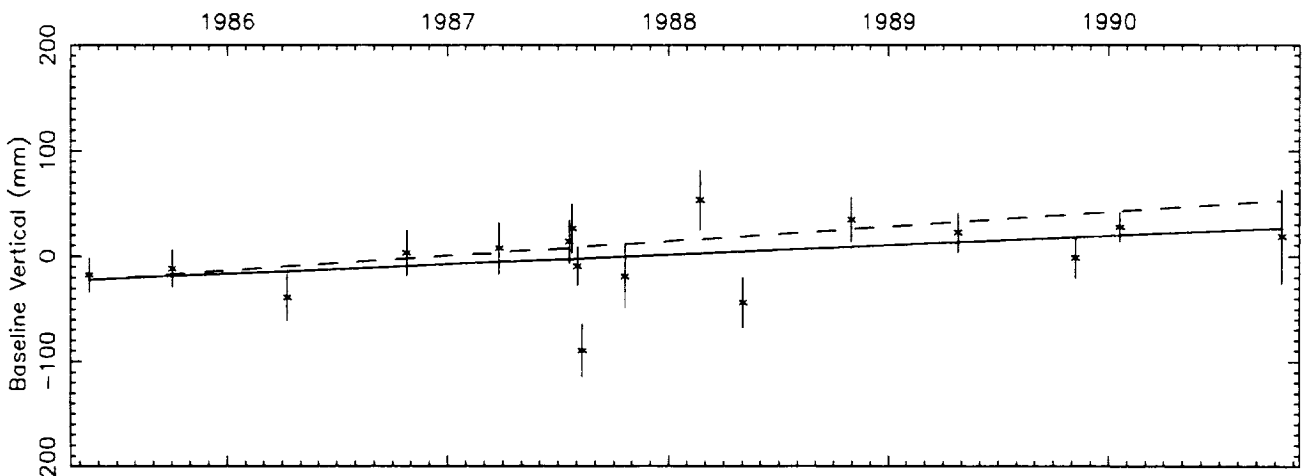
Reduced Chi square = 1.52



Observed Rate = 68.8 ± 1.1 mm/yr
 NUVEL model rate = 73.6 mm/yr

Wrms of fit = 6.7 mm

Reduced Chi square = 2.33



Observed Rate = 9.0 ± 4.4 mm/yr
 NUVEL model rate = 13.8 mm/yr

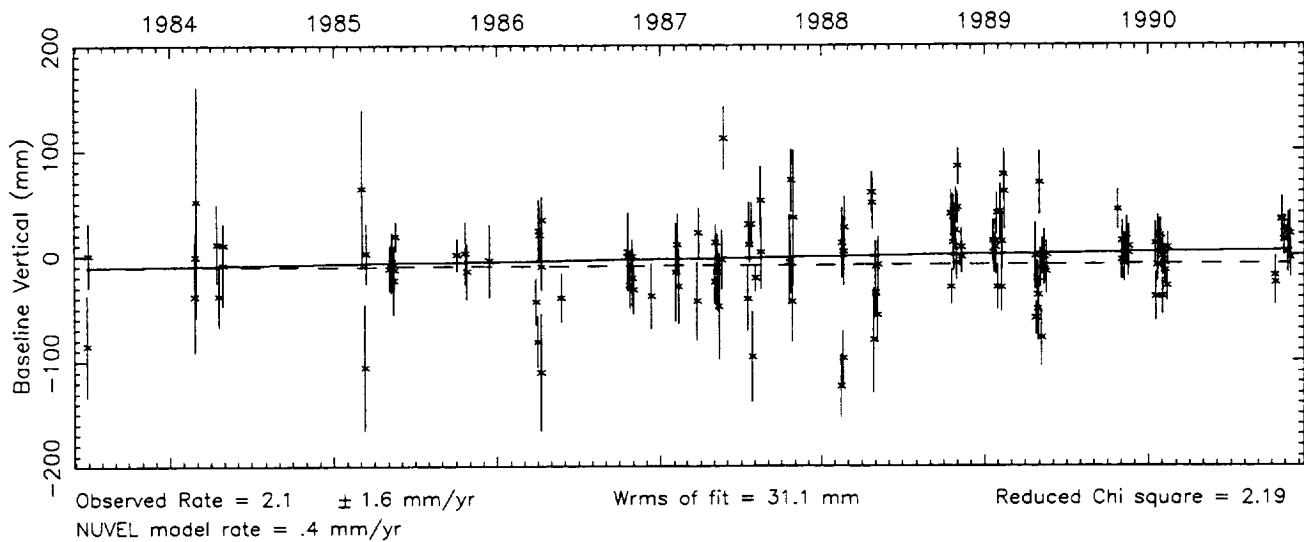
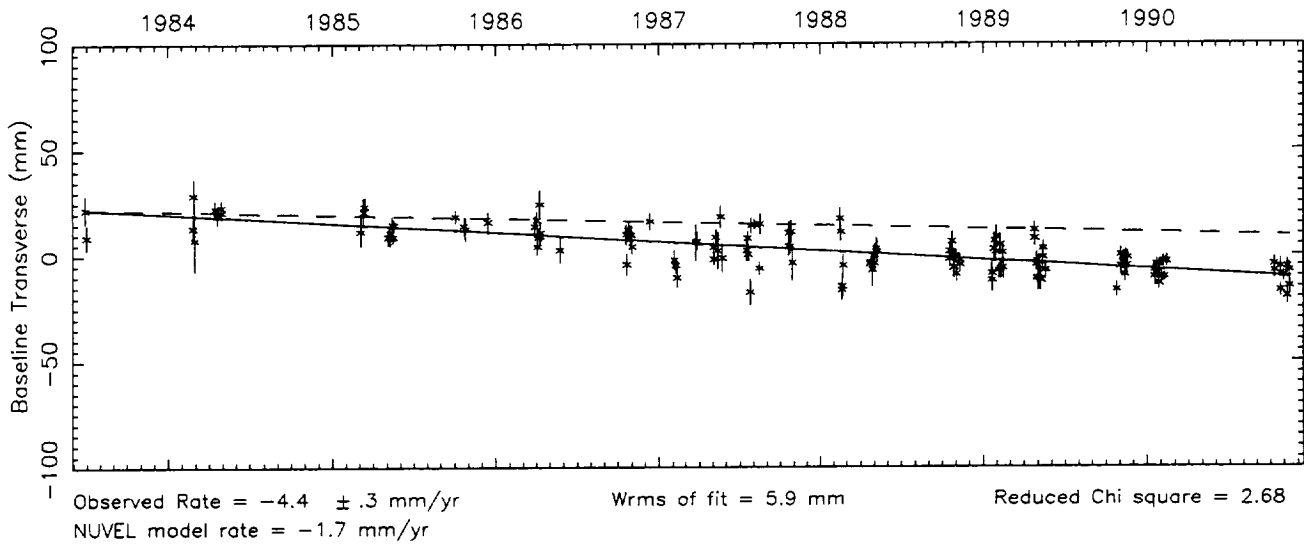
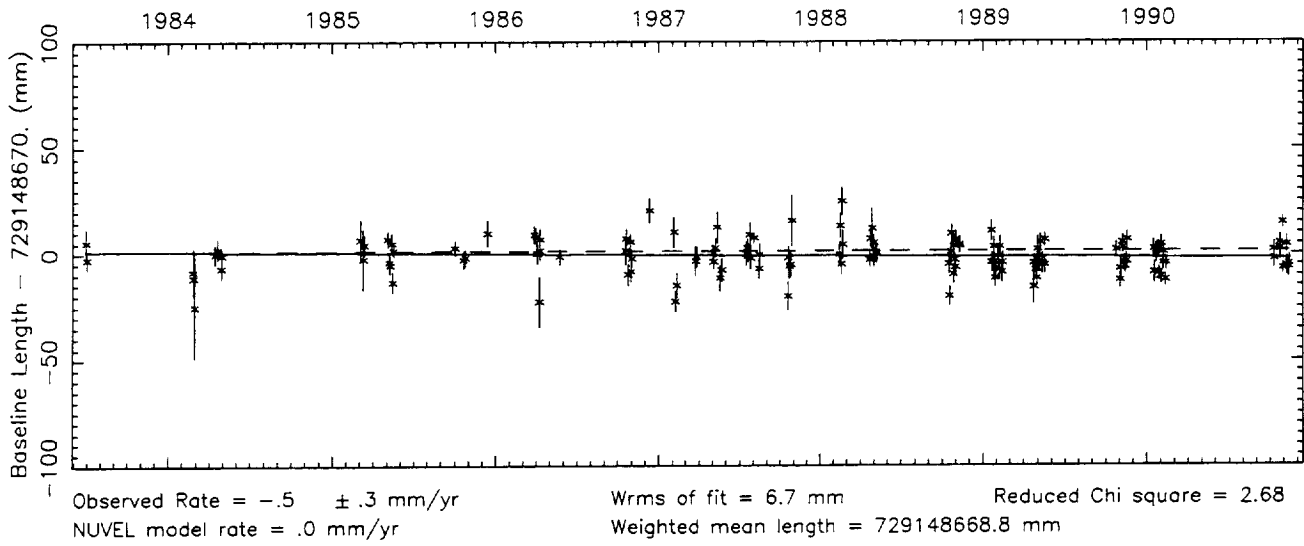
Wrms of fit = 26.2 mm

Reduced Chi square = 1.80

Vector baseline plots for HATCREEK-MOJAVE12

Baseline length = 729 kilometers

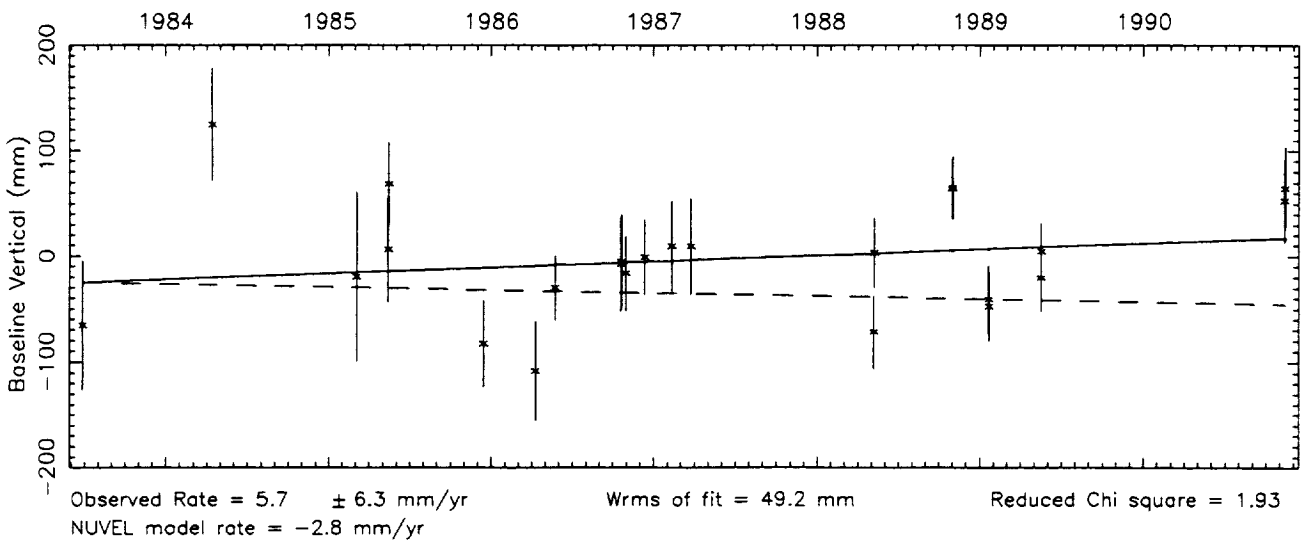
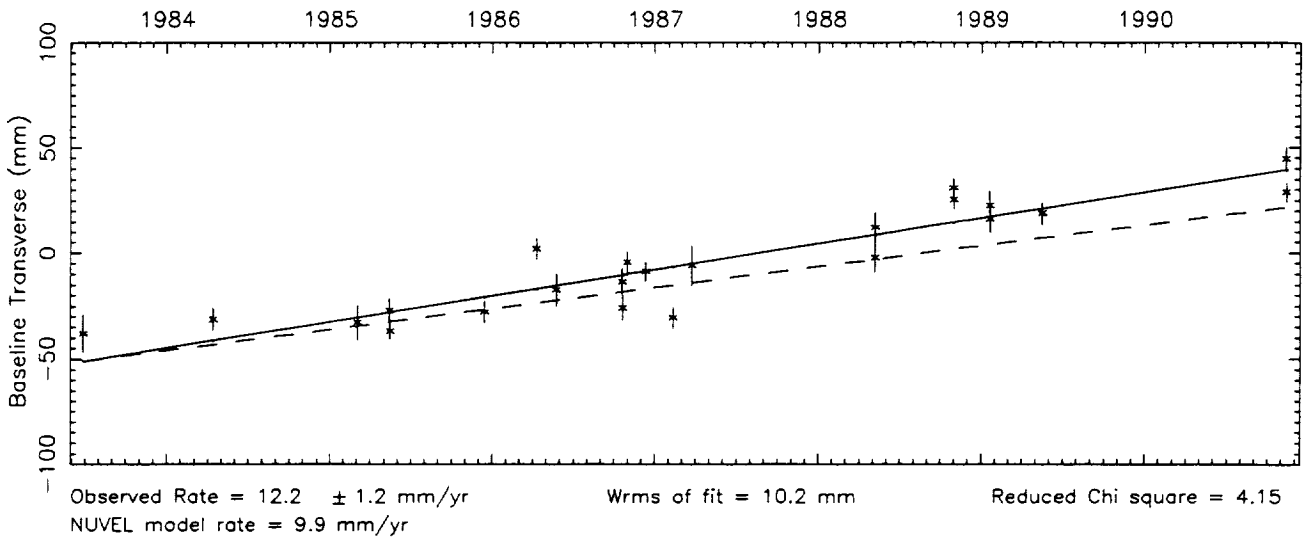
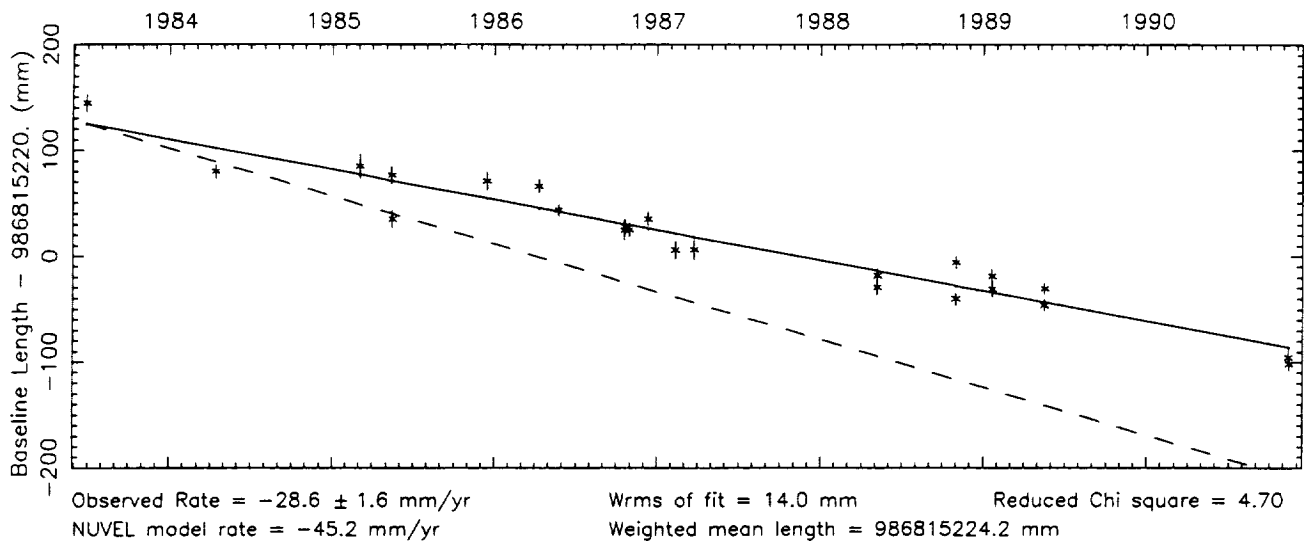
Number of sessions = 139



Vector baseline plots for HATCREEK-MON PEAK

Baseline length = 987 kilometers

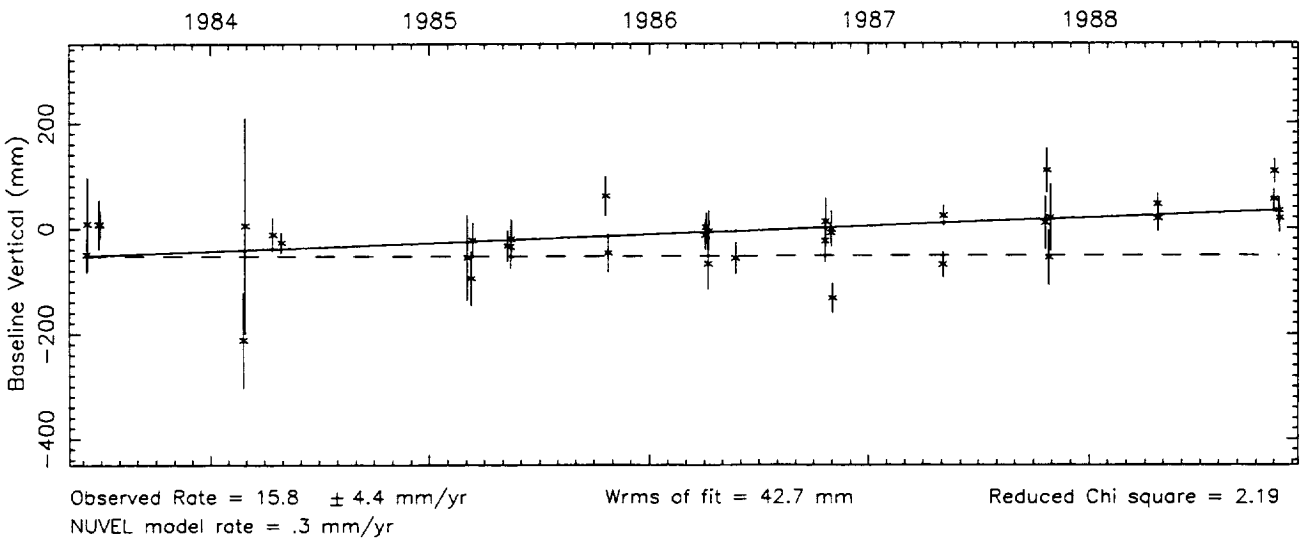
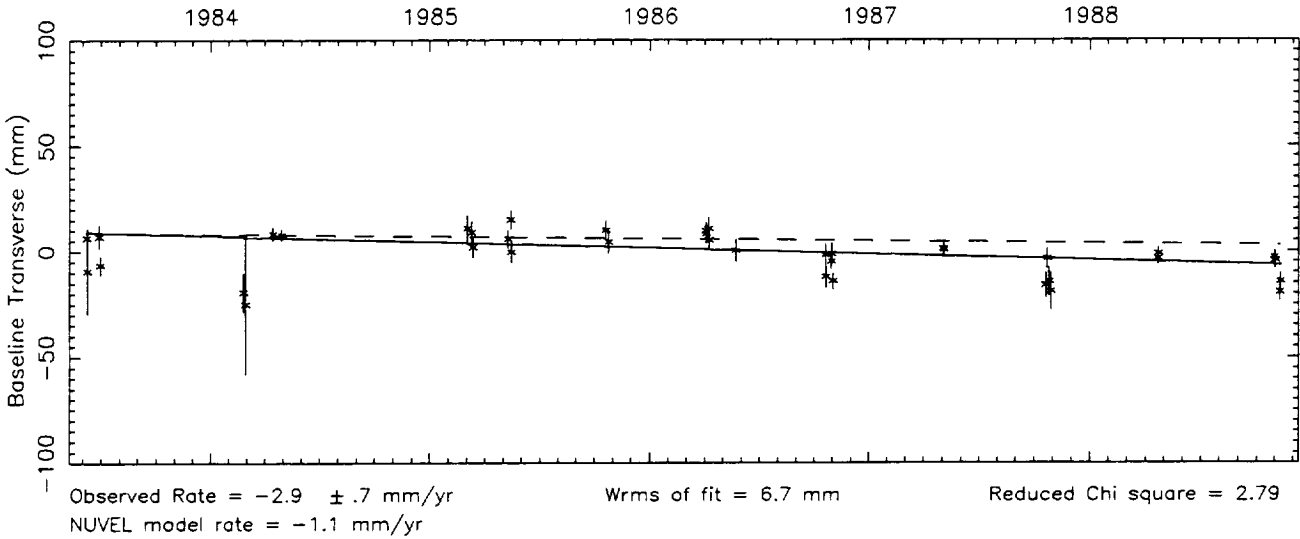
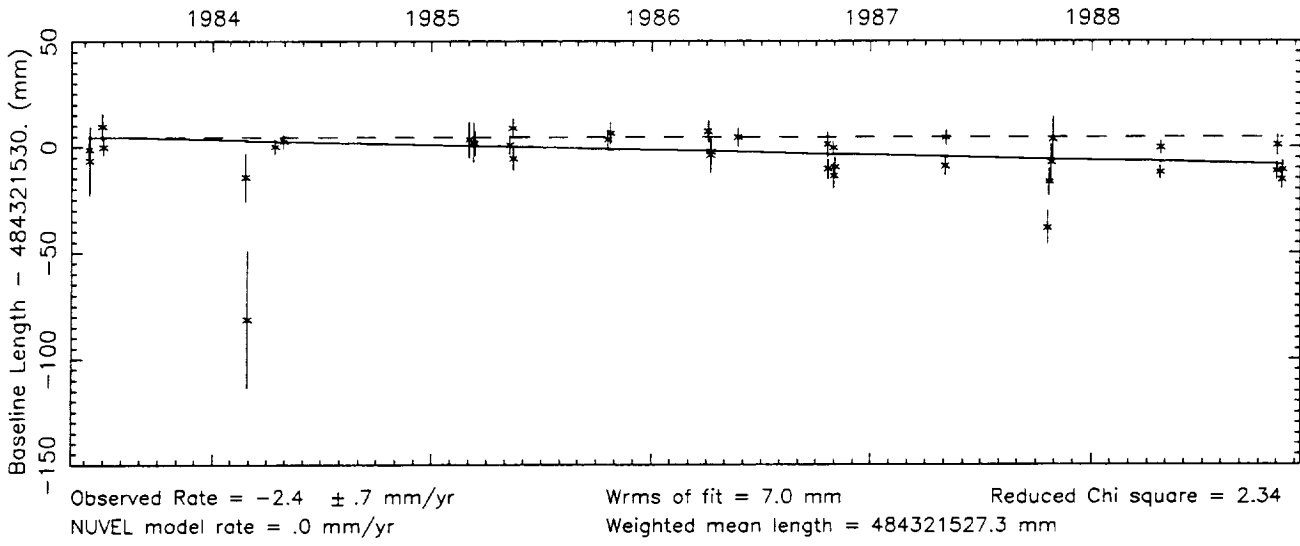
Number of sessions = 24



Vector baseline plots for HATCREEK-OVRO 130

Baseline length = 484 kilometers

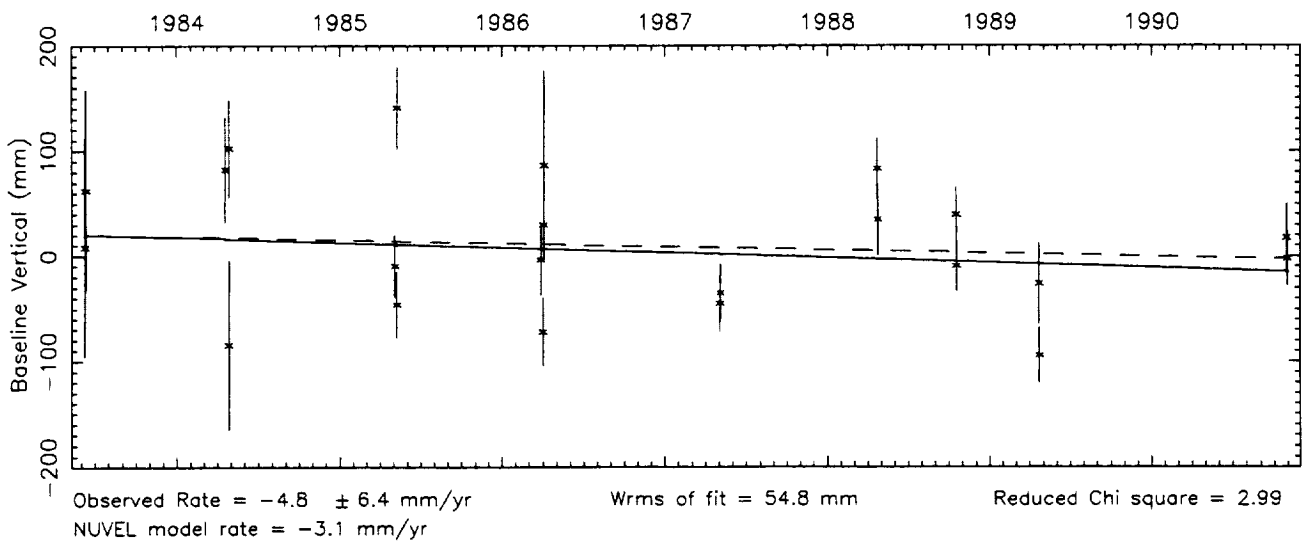
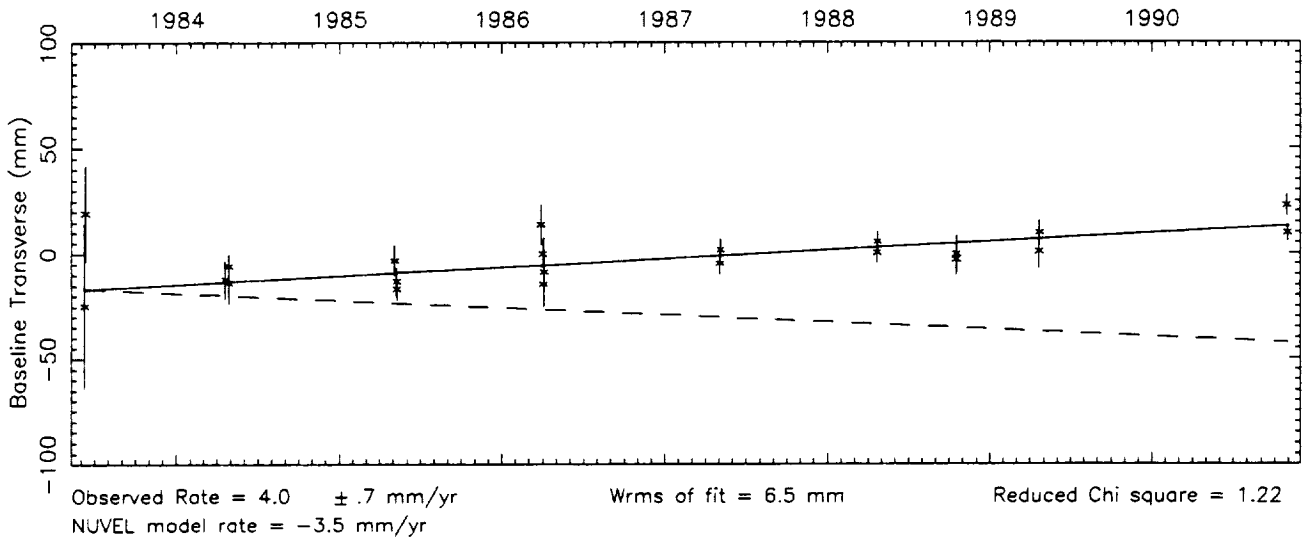
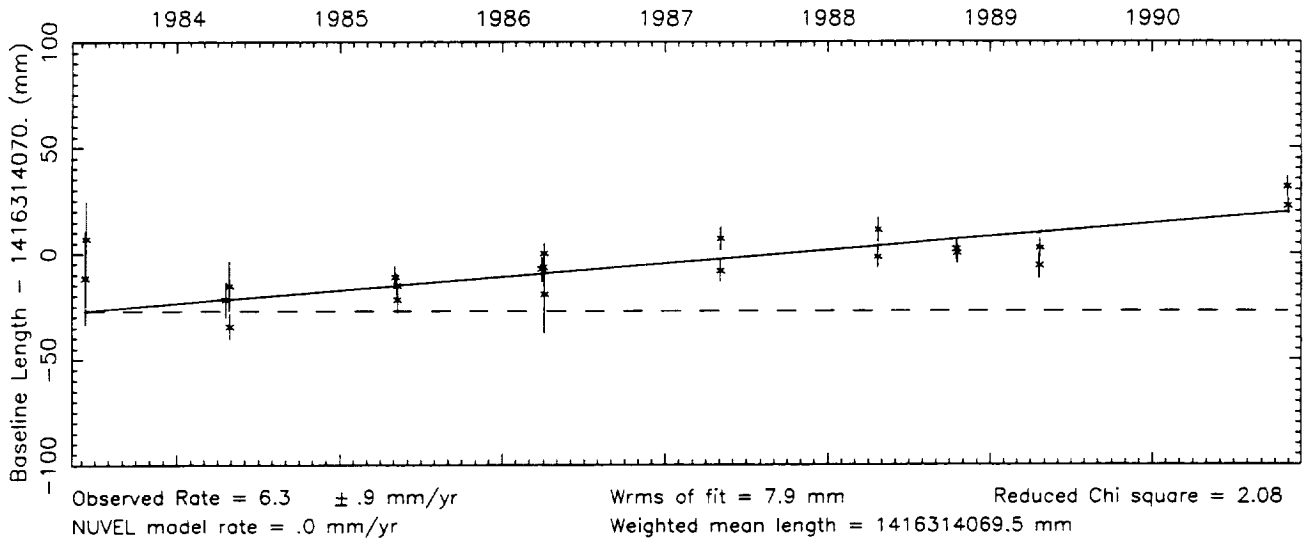
Number of sessions = 38



Vector baseline plots for HATCREEK-PLATTVIL

Baseline length = 1416 kilometers

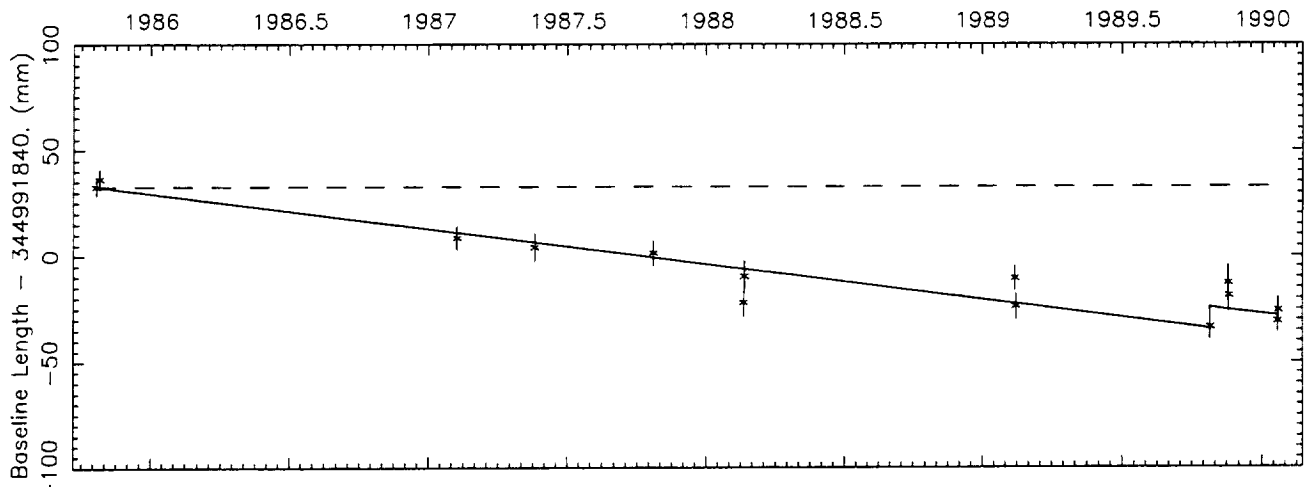
Number of sessions = 22



Vector baseline plots for HATCREEK-PRESIDIO

Baseline length = 345 kilometers

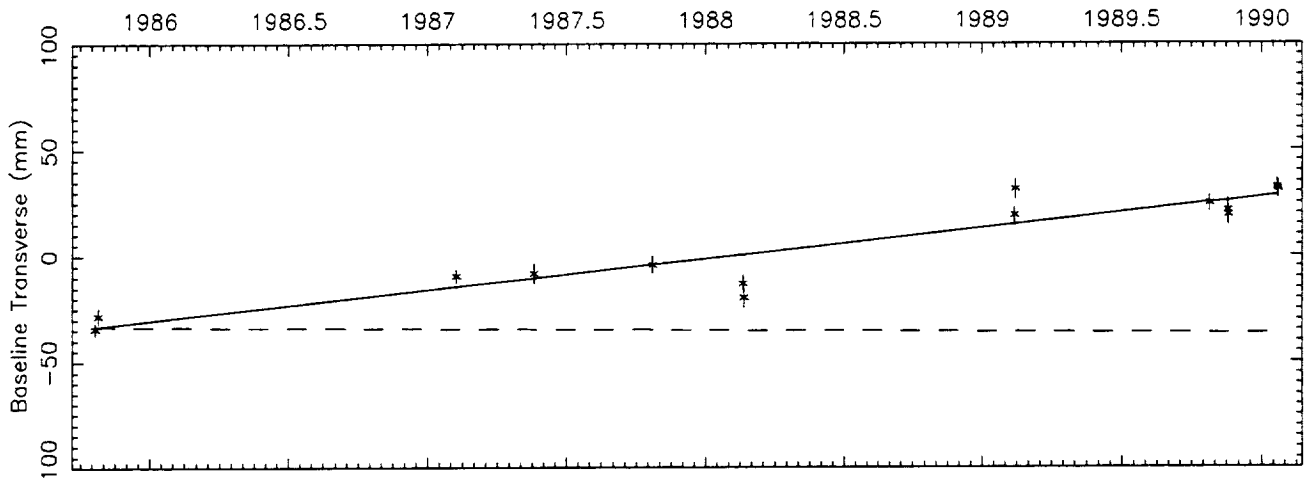
Number of sessions = 14



Observed Rate = -16.7 ± 1.9 mm/yr
 NUVEL model rate = $.0$ mm/yr

Wrms of fit = 6.5 mm
 Weighted mean length = 344991837.4 mm
 Offset = 9.9 ± 6.6 mm

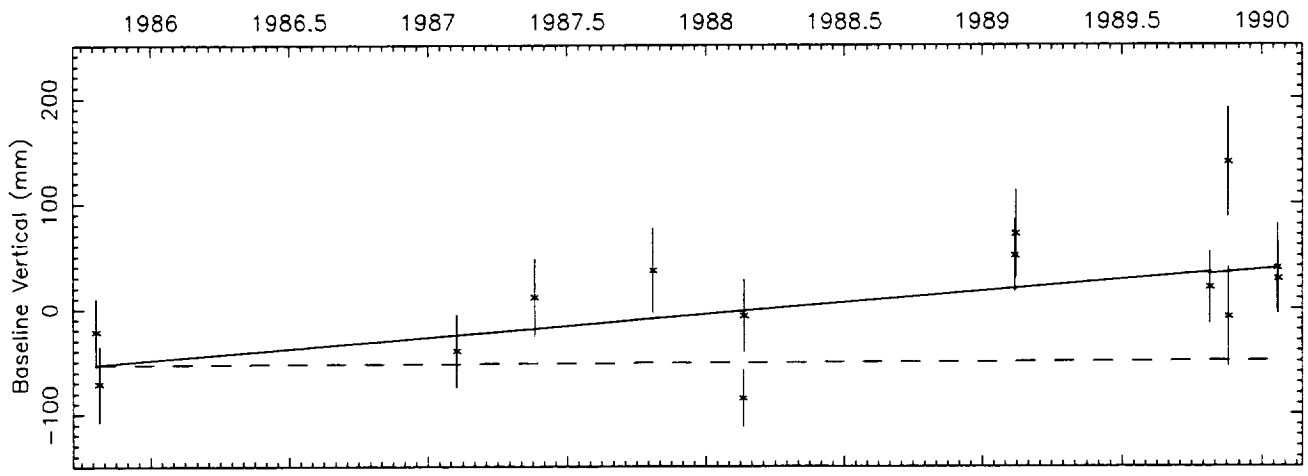
Reduced Chi square = 1.63



Observed Rate = 14.5 ± 2.3 mm/yr
 NUVEL model rate = -0.8 mm/yr

Wrms of fit = 7.8 mm
 Offset = -0.2 ± 7.8 mm

Reduced Chi square = 5.10



Observed Rate = 21.8 ± 13.5 mm/yr
 NUVEL model rate = $.9$ mm/yr

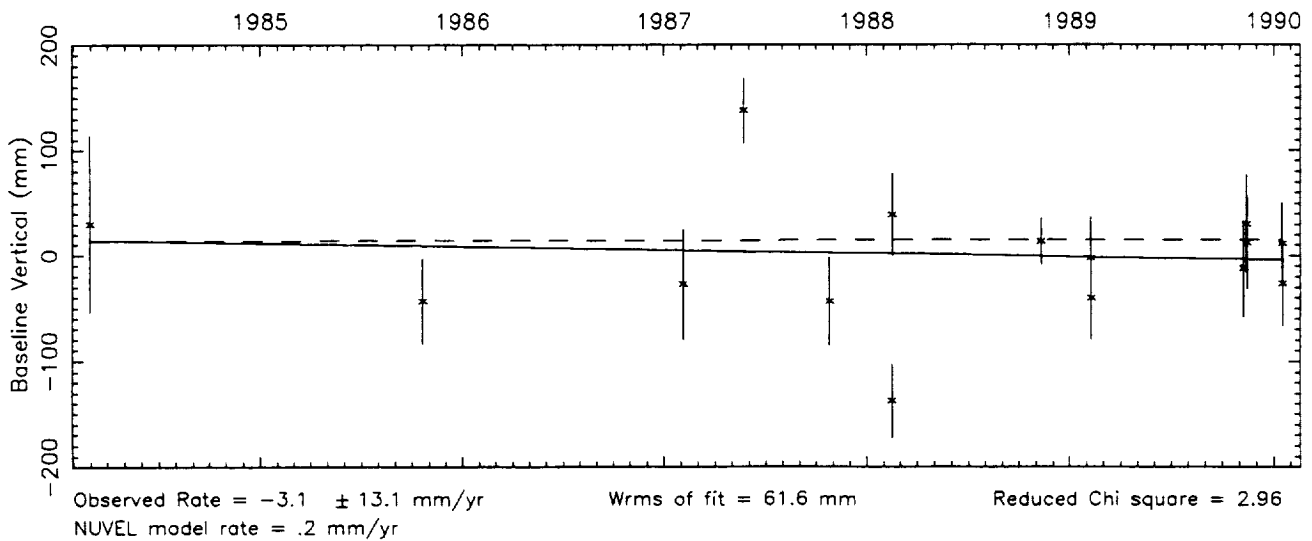
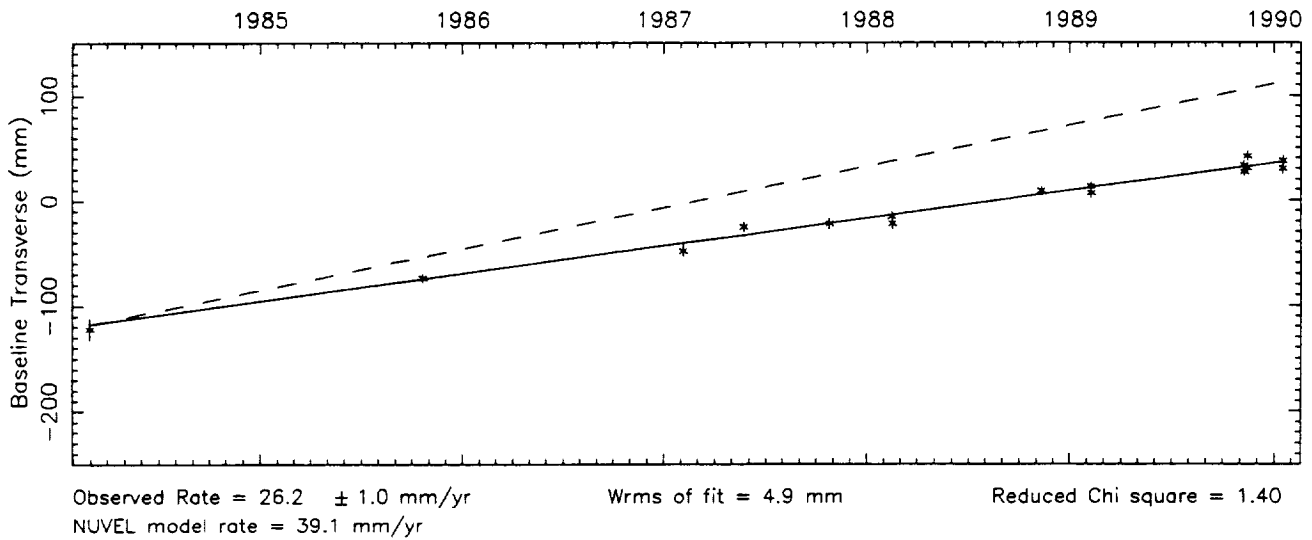
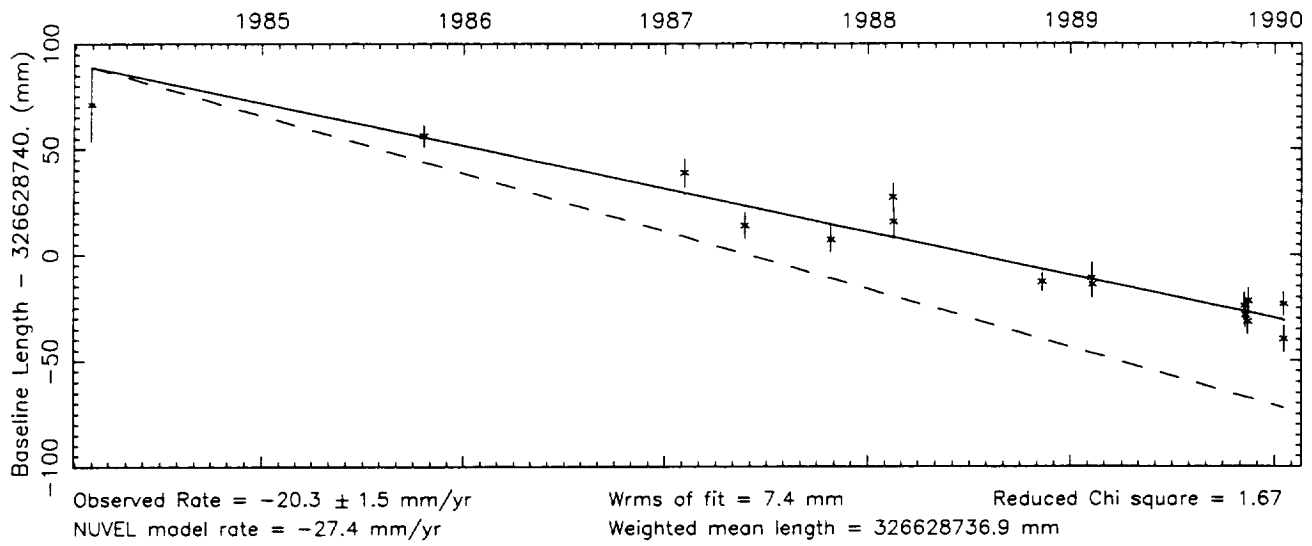
Wrms of fit = 43.2 mm
 Offset = -1.5 ± 43.1 mm

Reduced Chi square = 1.82

Vector baseline plots for HATCREEK-PT REYES

Baseline length = 327 kilometers

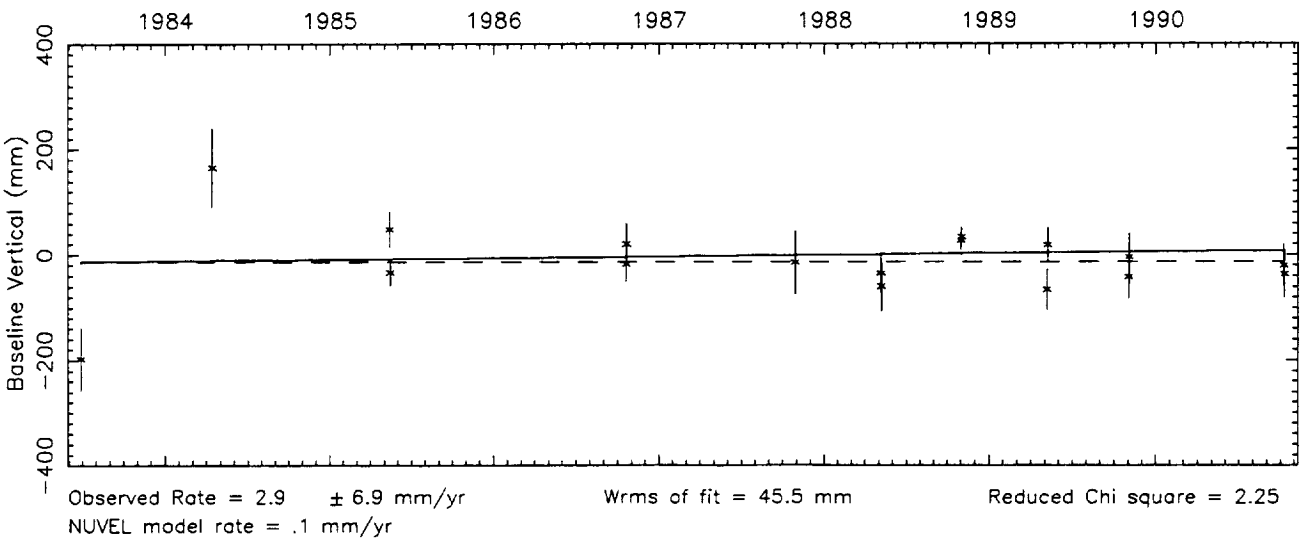
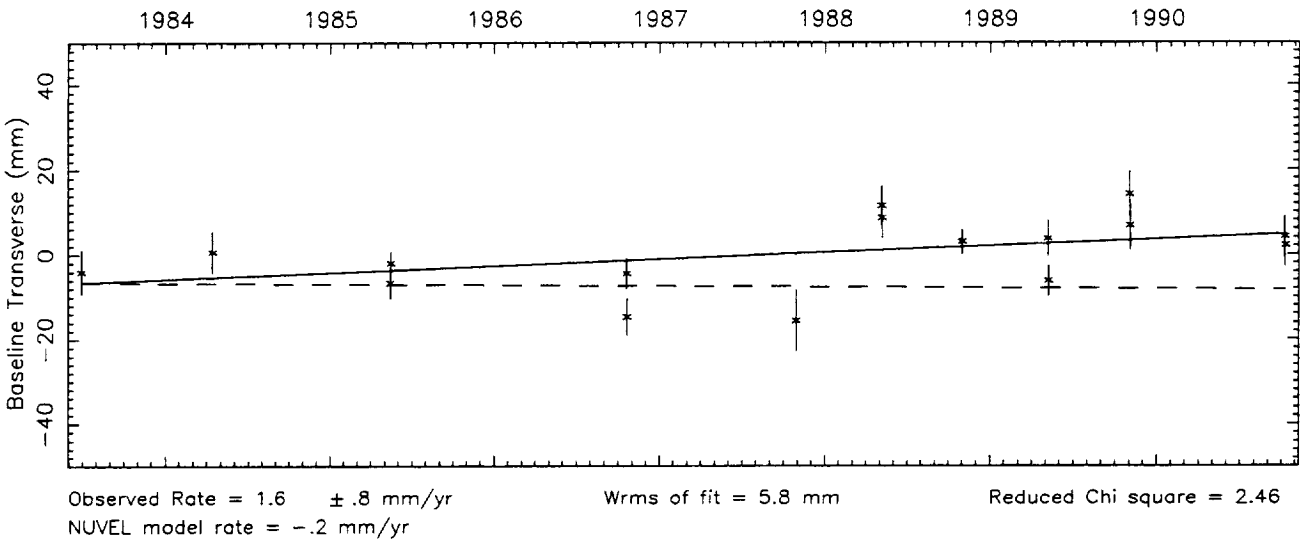
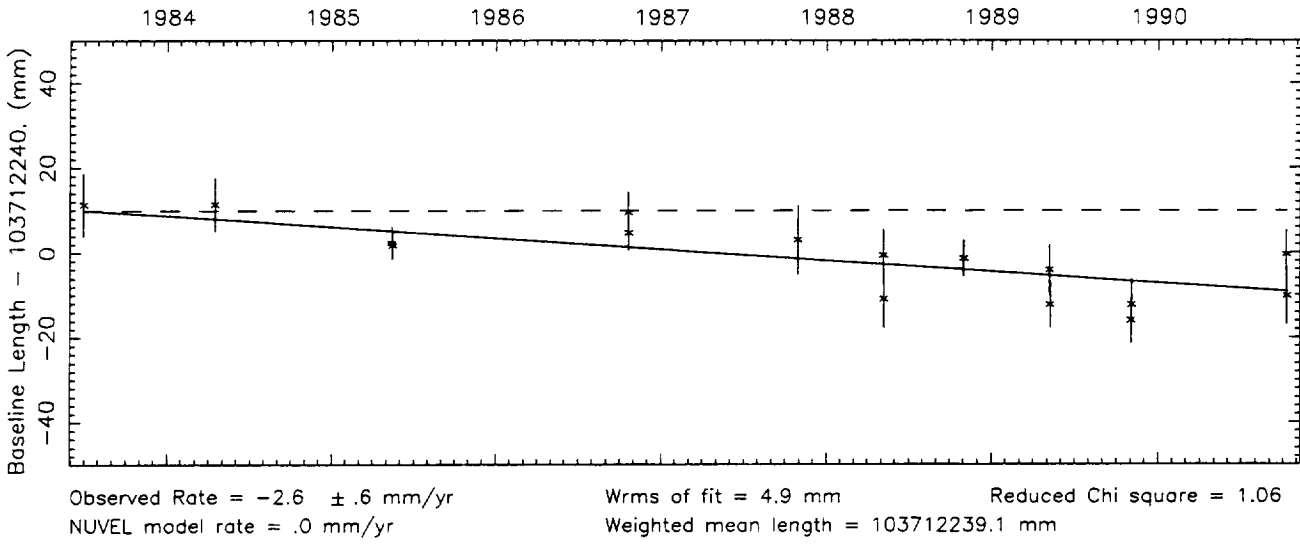
Number of sessions = 16



Vector baseline plots for HATCREEK-QUINCY

Baseline length = 104 kilometers

Number of sessions = 17



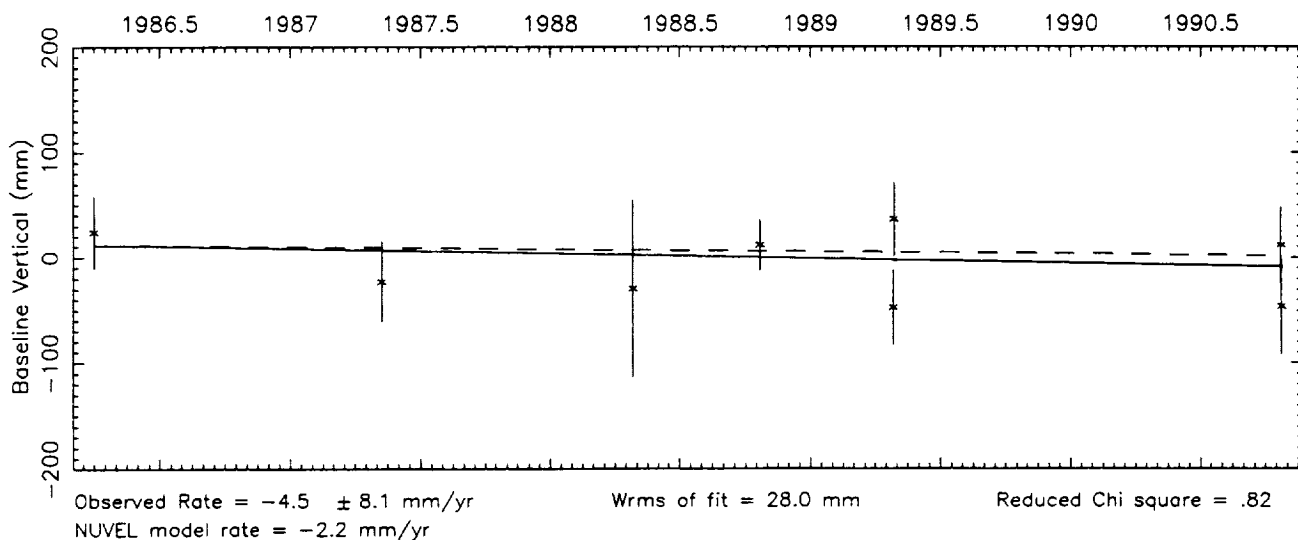
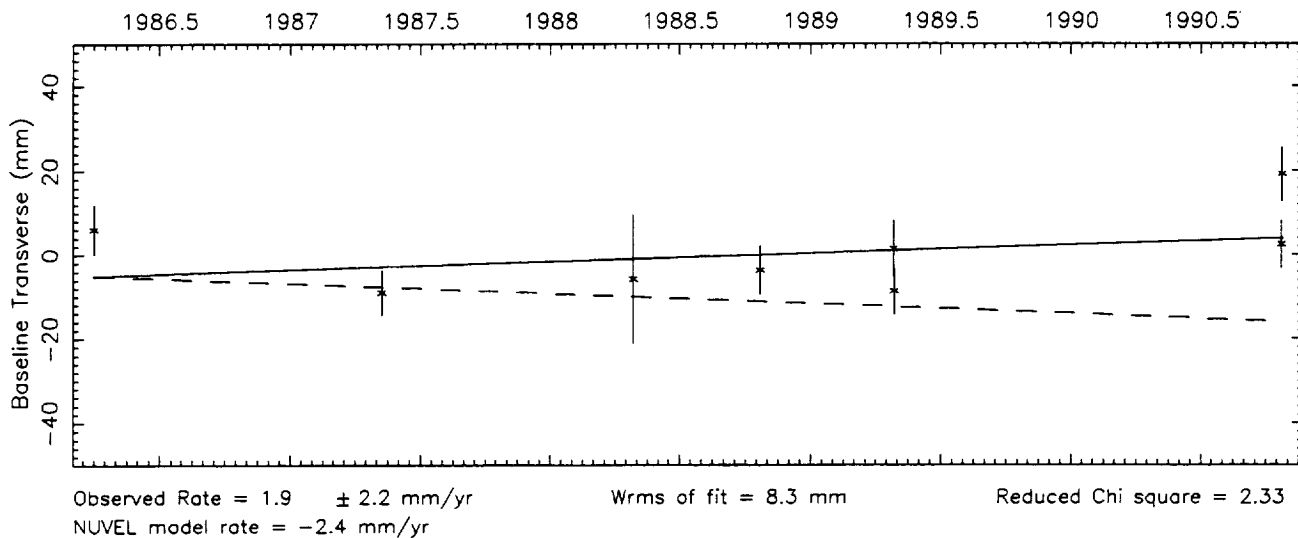
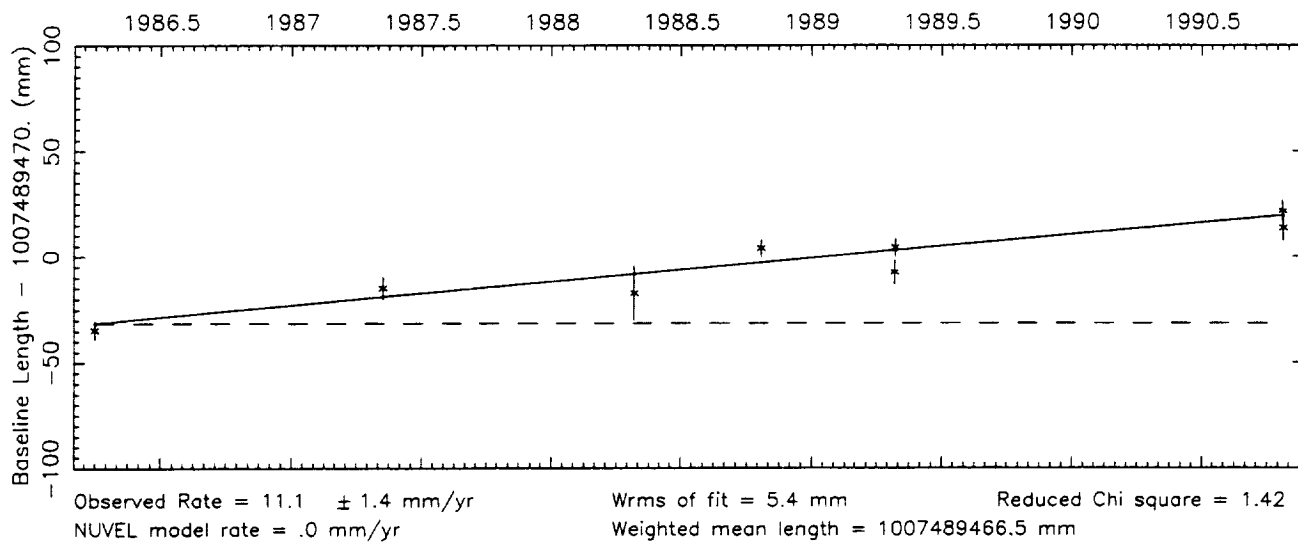
7.83

a-4

Vector baseline plots for HATCREEK-VERNAL

Baseline length = 1007 kilometers

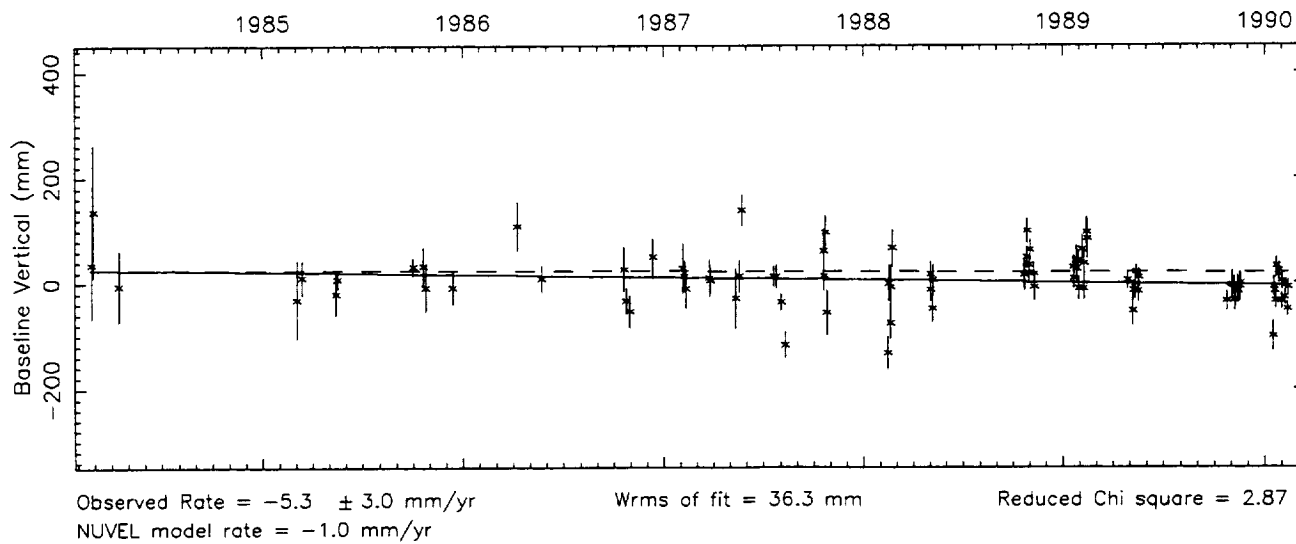
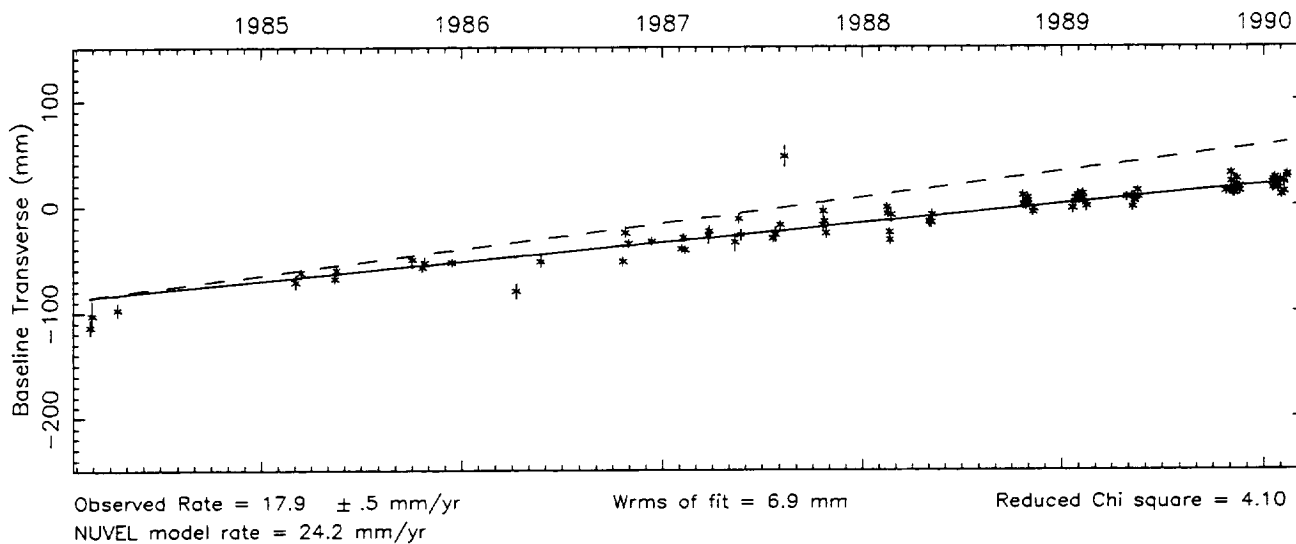
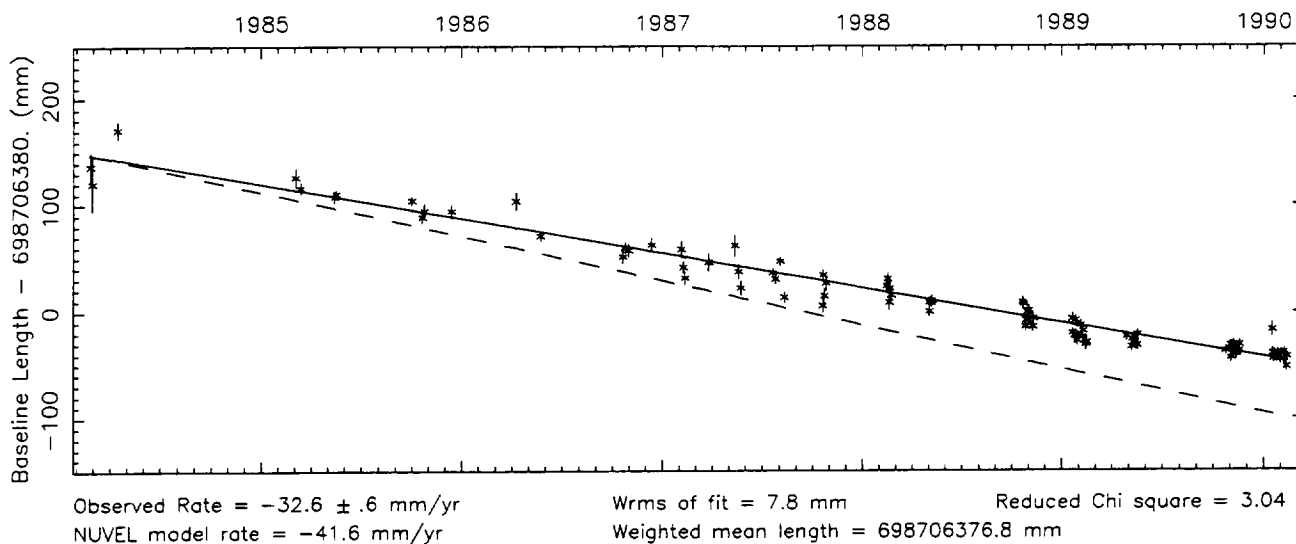
Number of sessions = 8



Vector baseline plots for HATCREEK-VNDNBERG

Baseline length = 699 kilometers

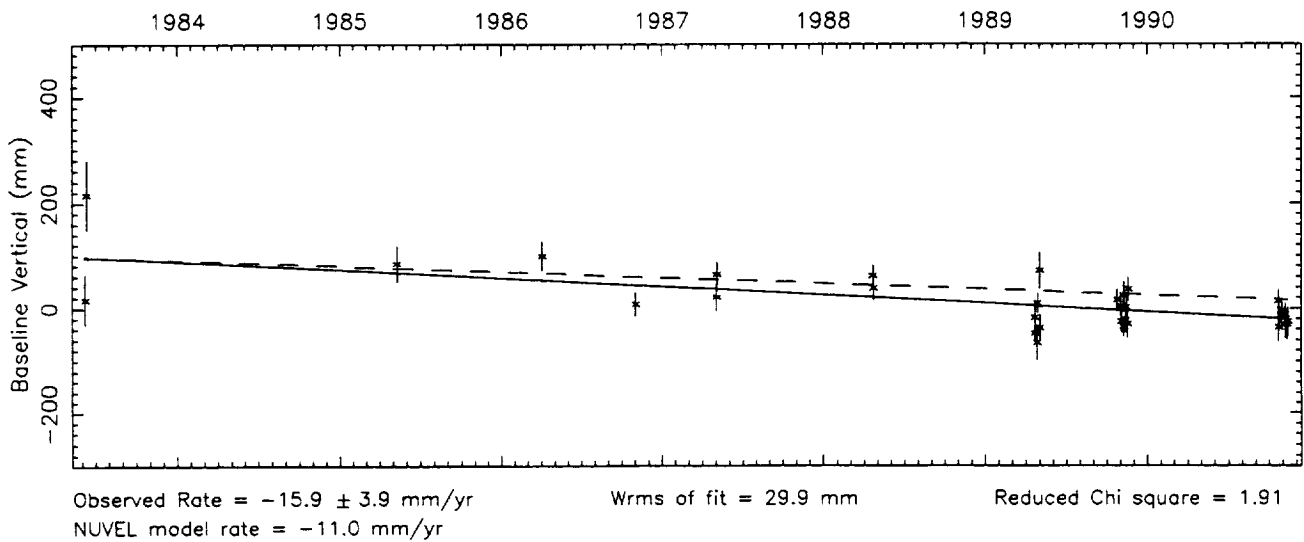
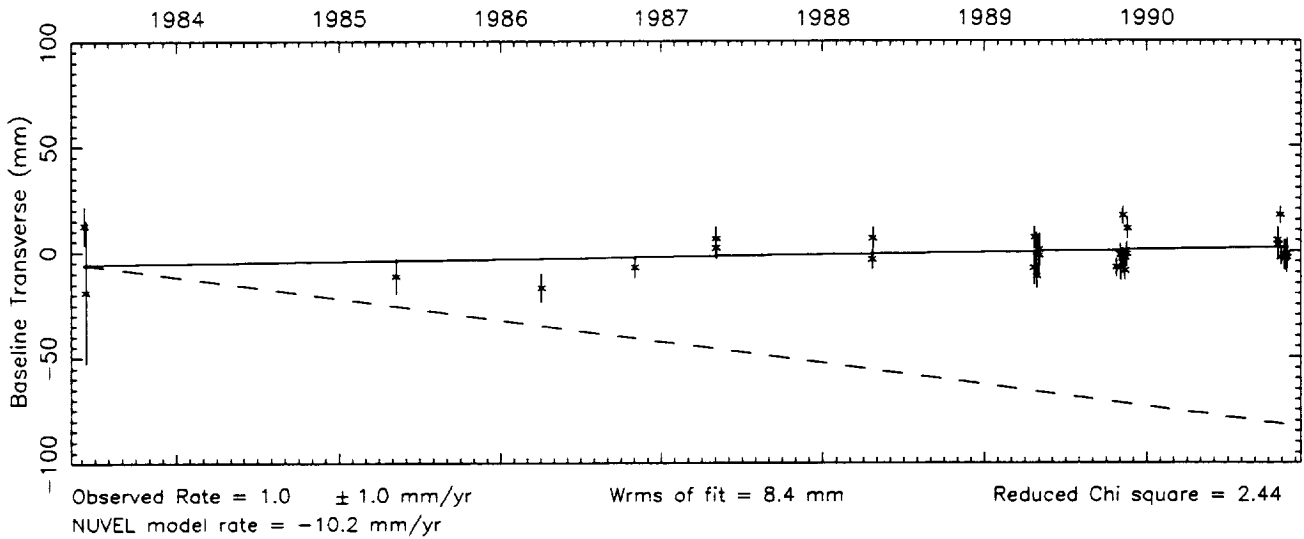
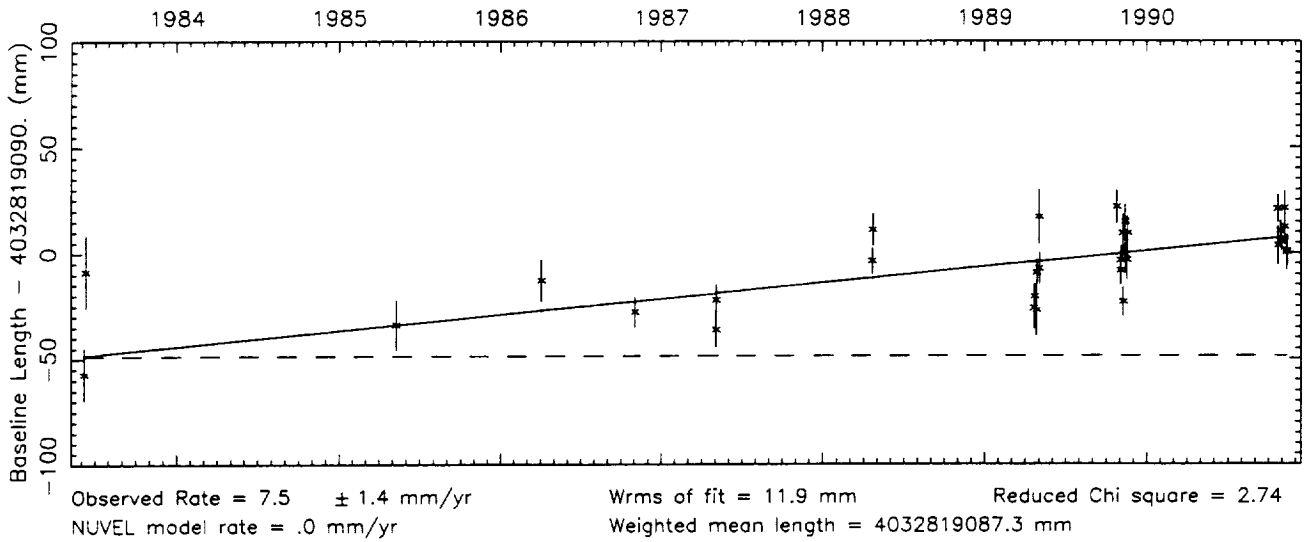
Number of sessions = 92



Vector baseline plots for HATCREEK—WESTFORD

Baseline length = 4033 kilometers

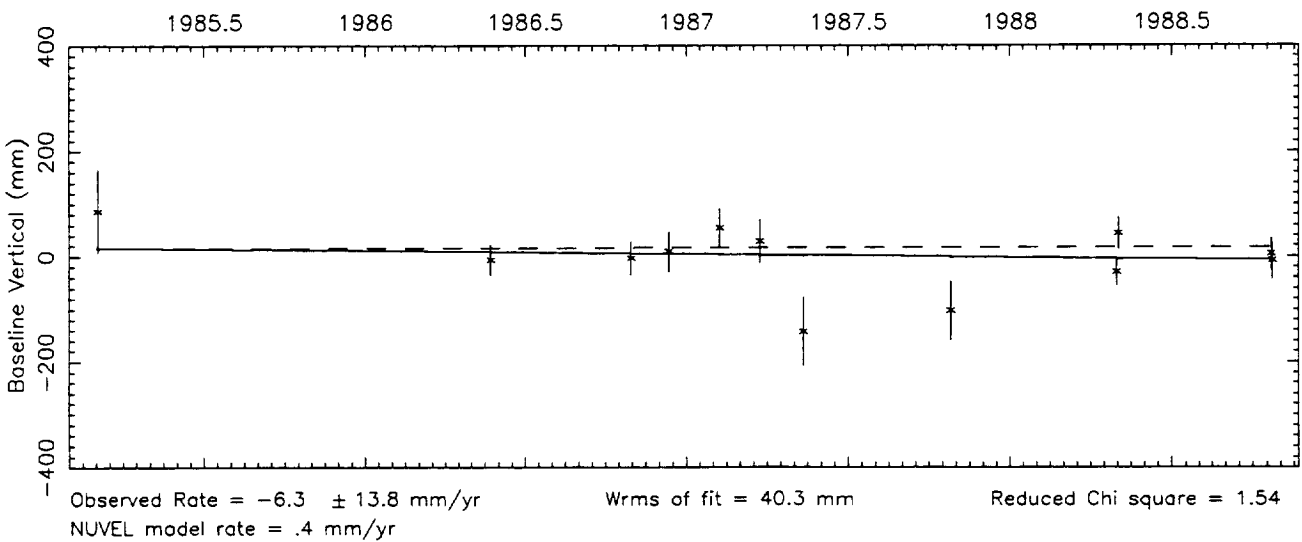
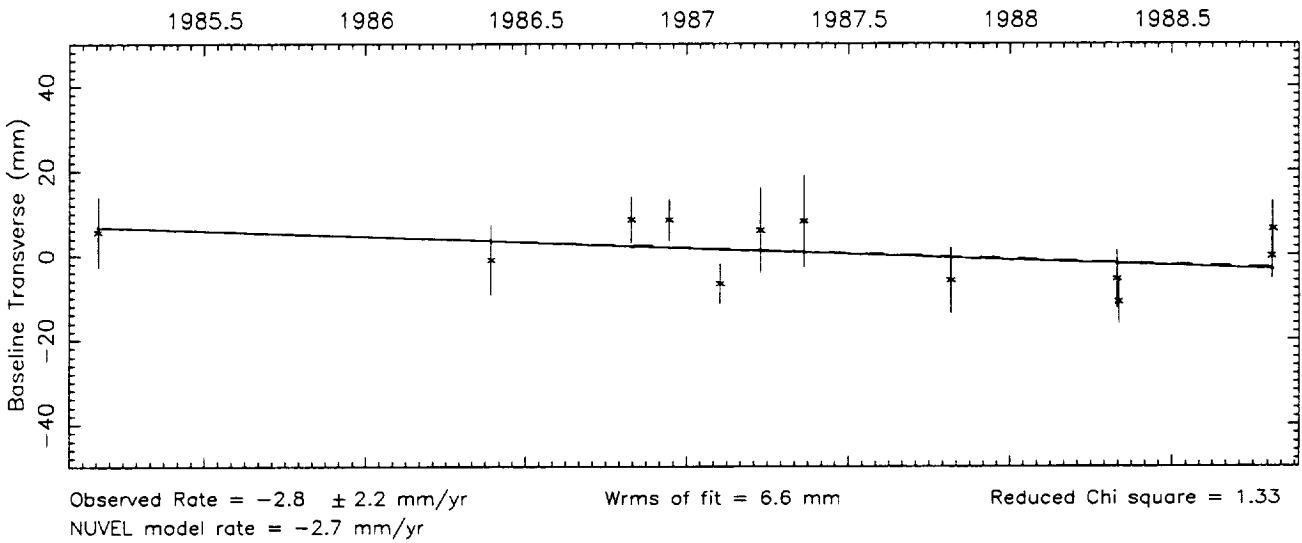
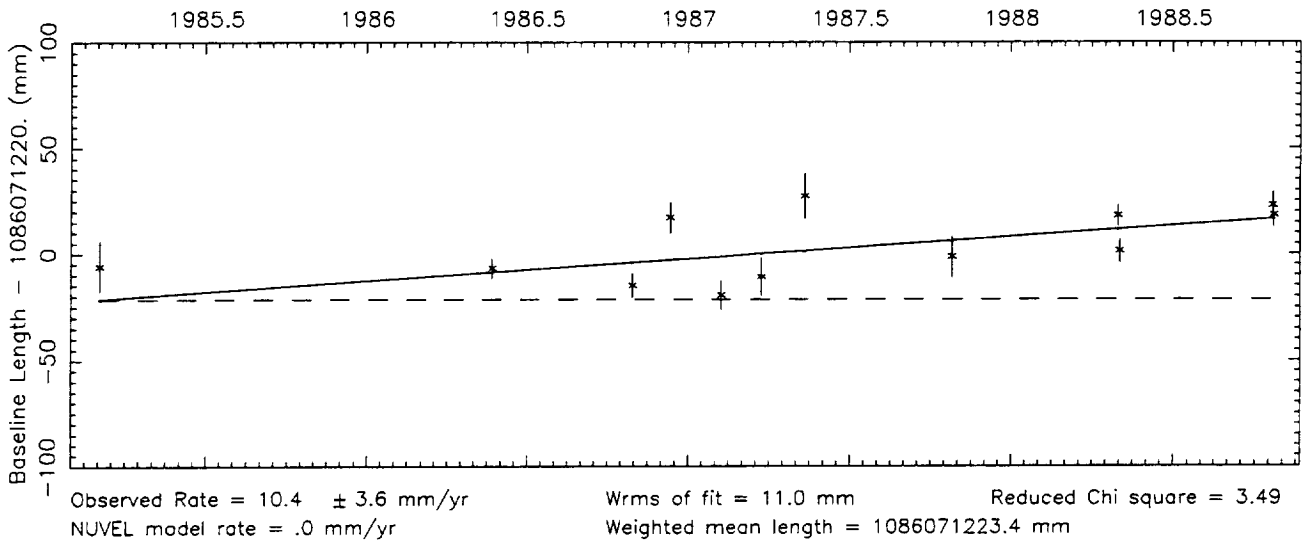
Number of sessions = 32



Vector baseline plots for HATCREEK-YUMA

Baseline length = 1086 kilometers

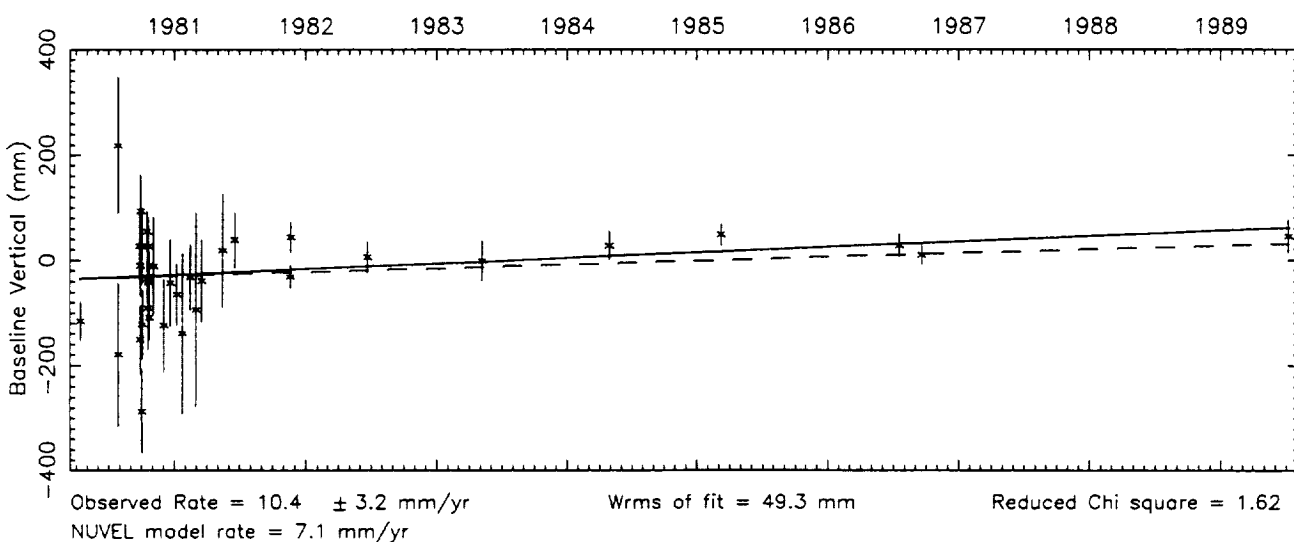
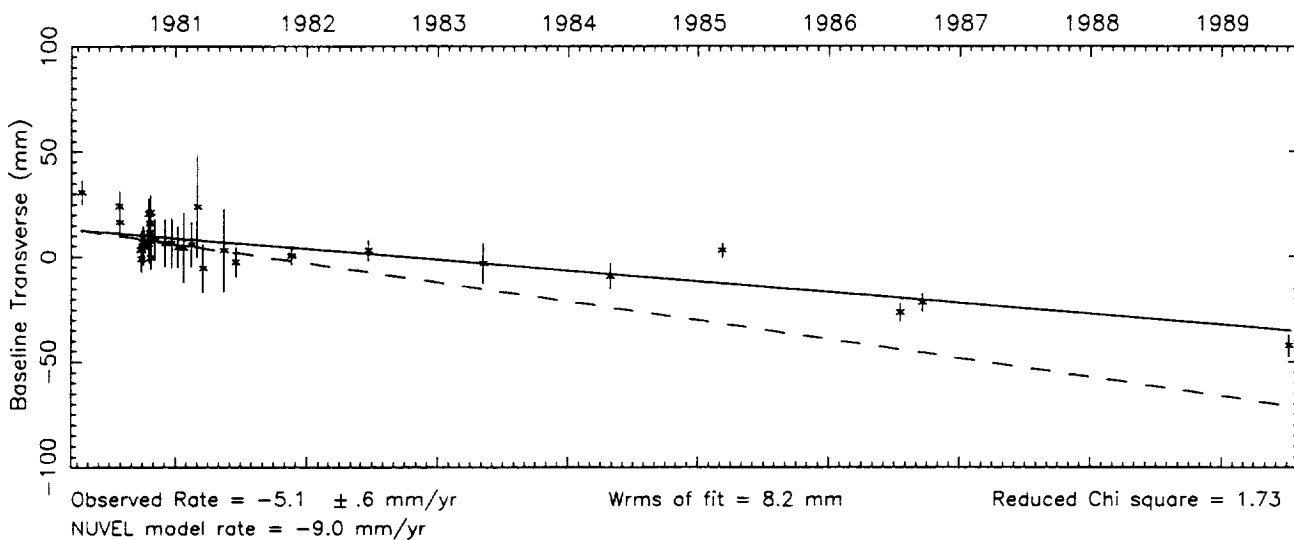
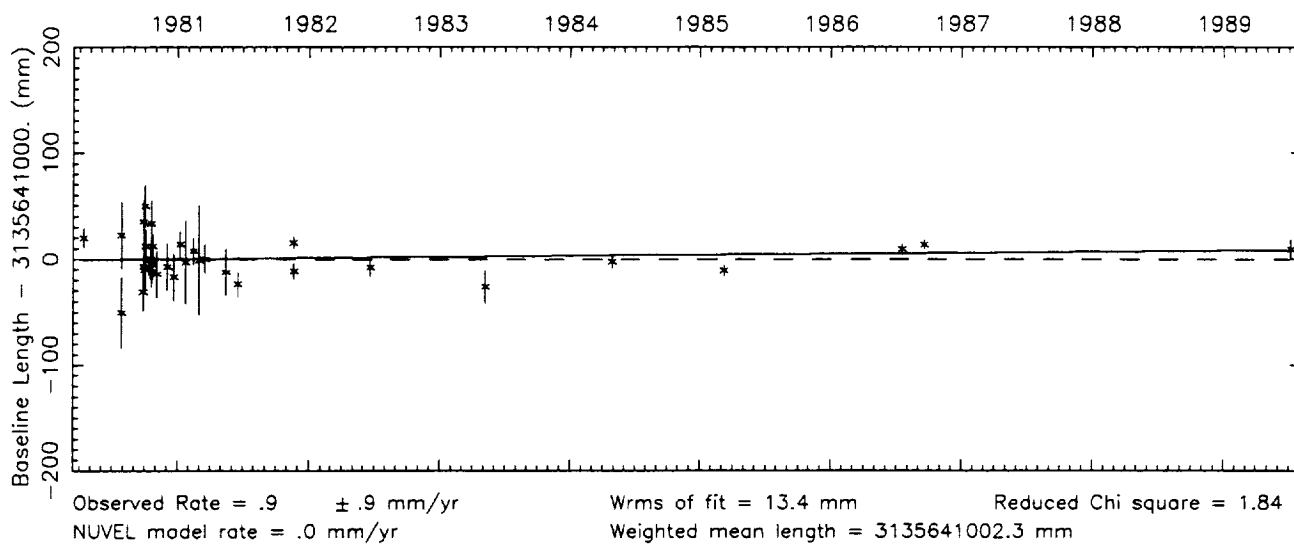
Number of sessions = 12



Vector baseline plots for HAYSTACK-HRAS 085

Baseline length = 3136 kilometers

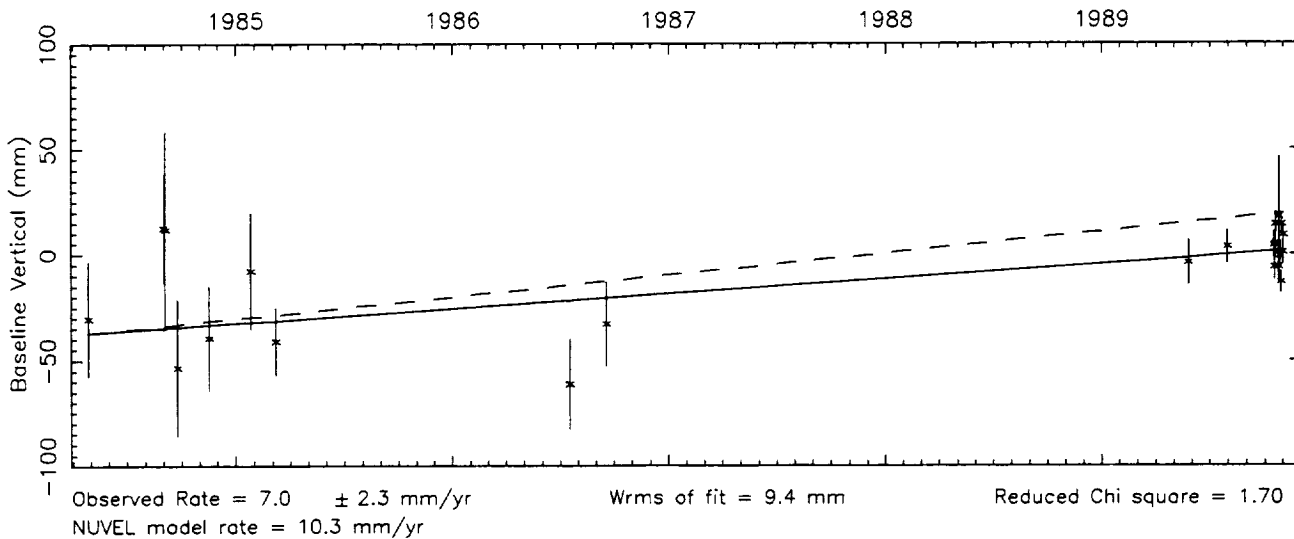
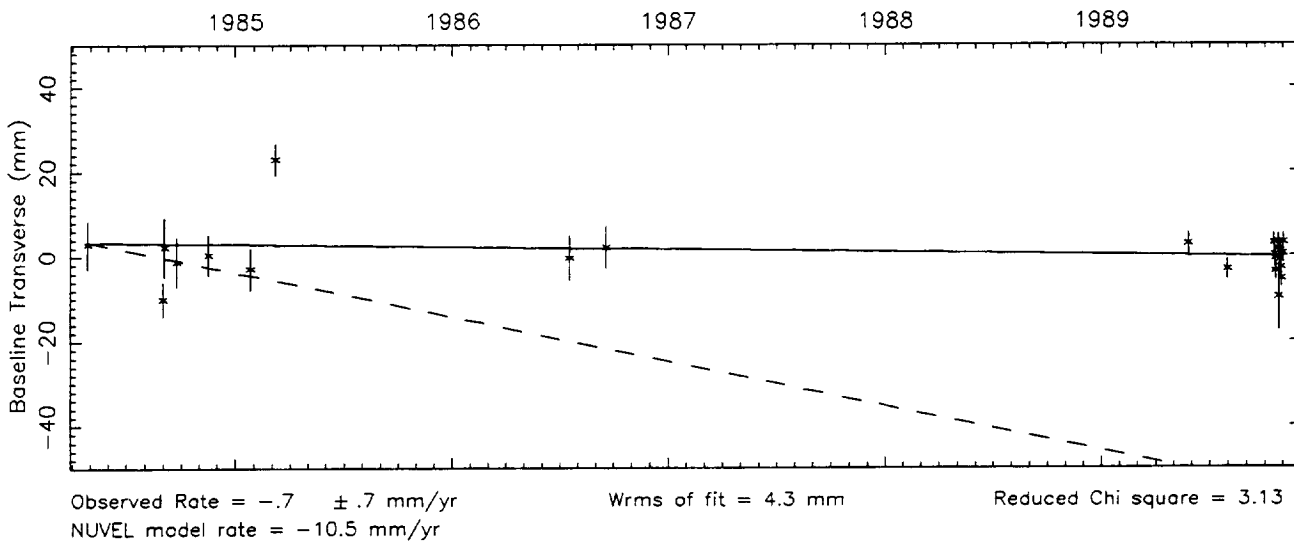
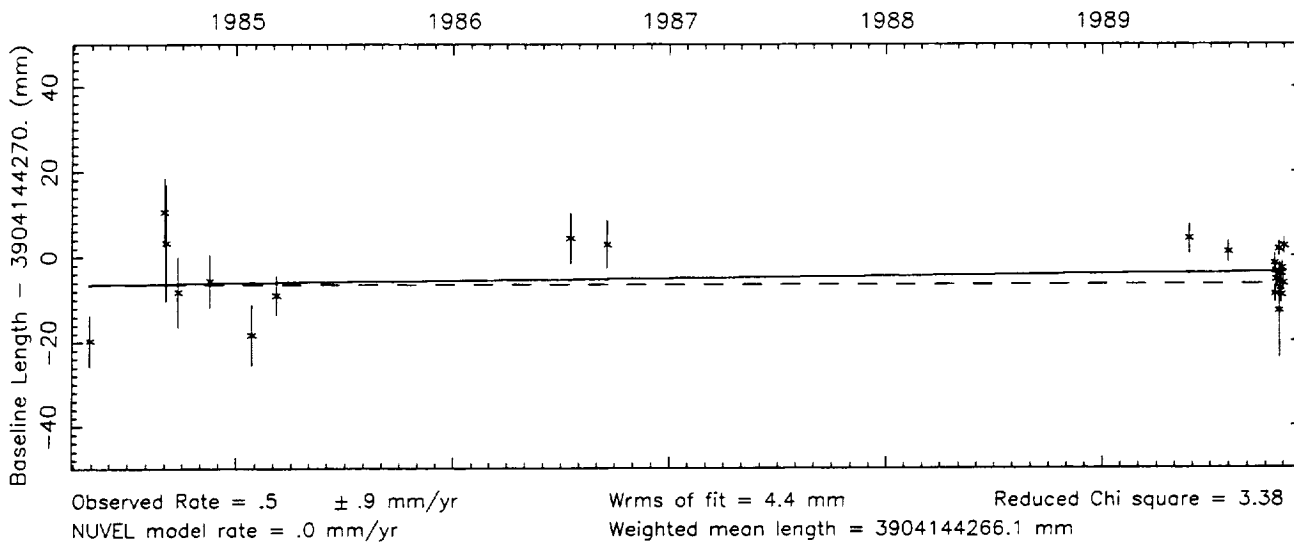
Number of sessions = 36



Vector baseline plots for HAYSTACK-MOJAVE12

Baseline length = 3904 kilometers

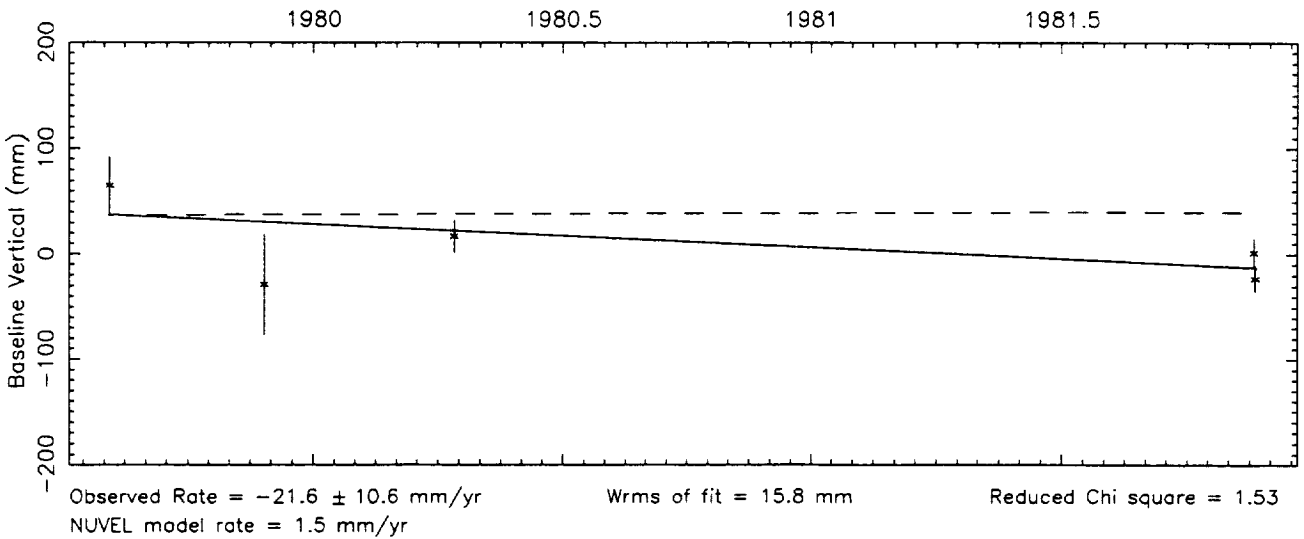
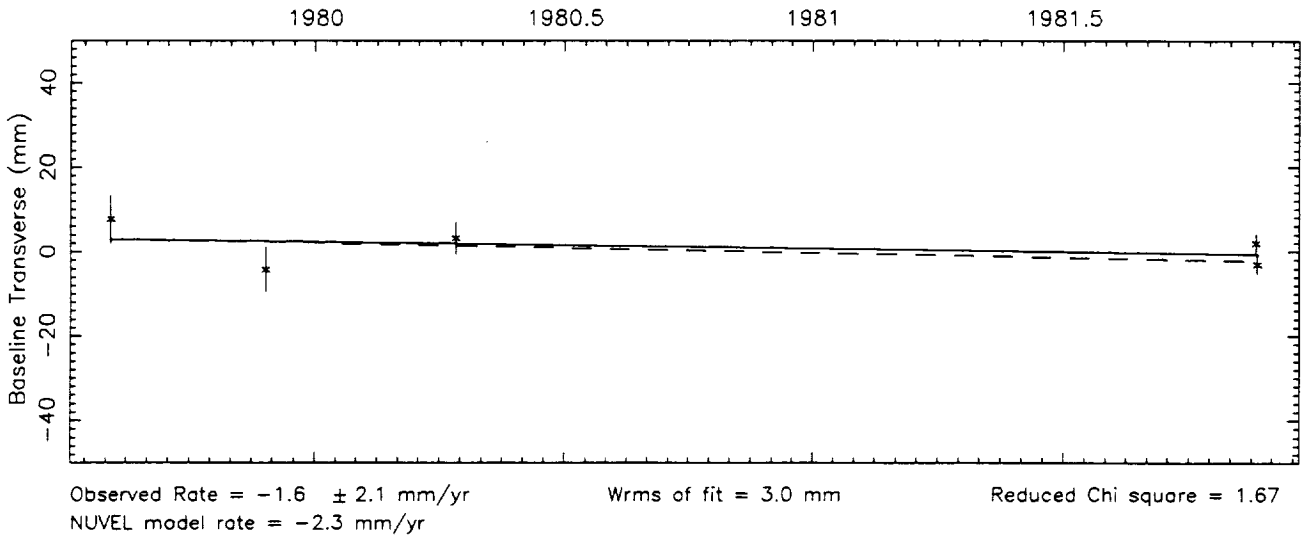
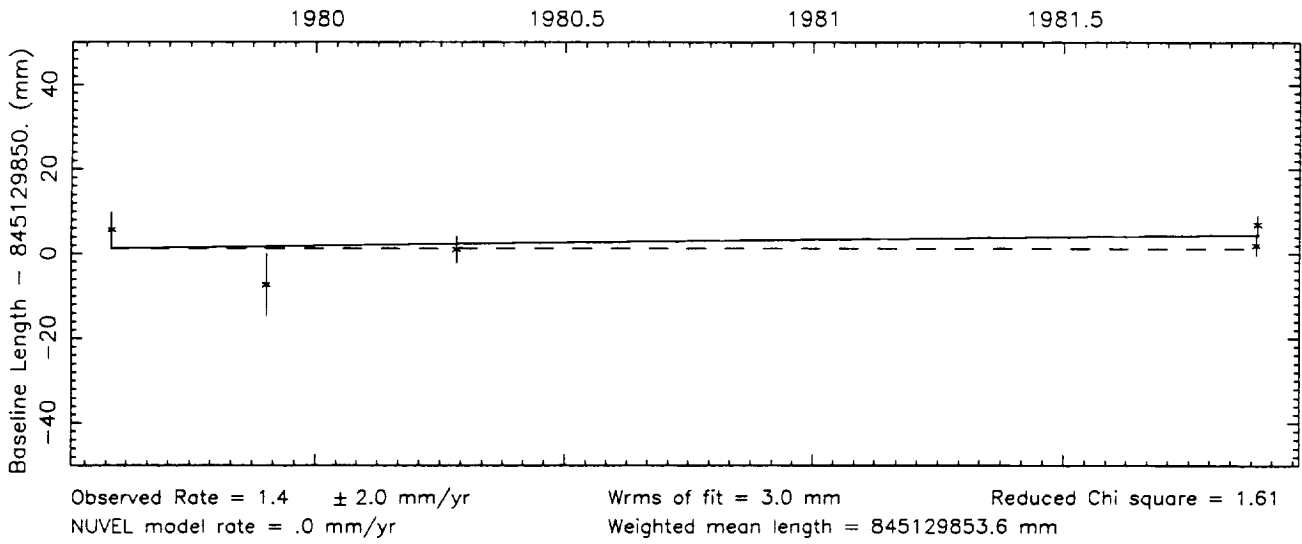
Number of sessions = 24



Vector baseline plots for HAYSTACK-NRAO 140

Baseline length = 845 kilometers

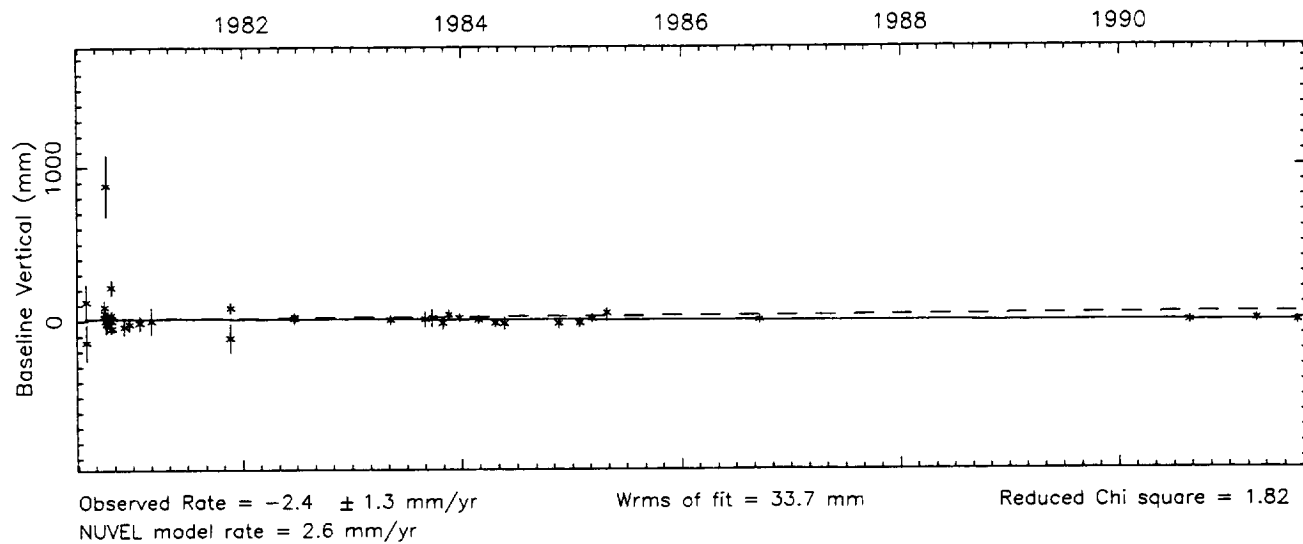
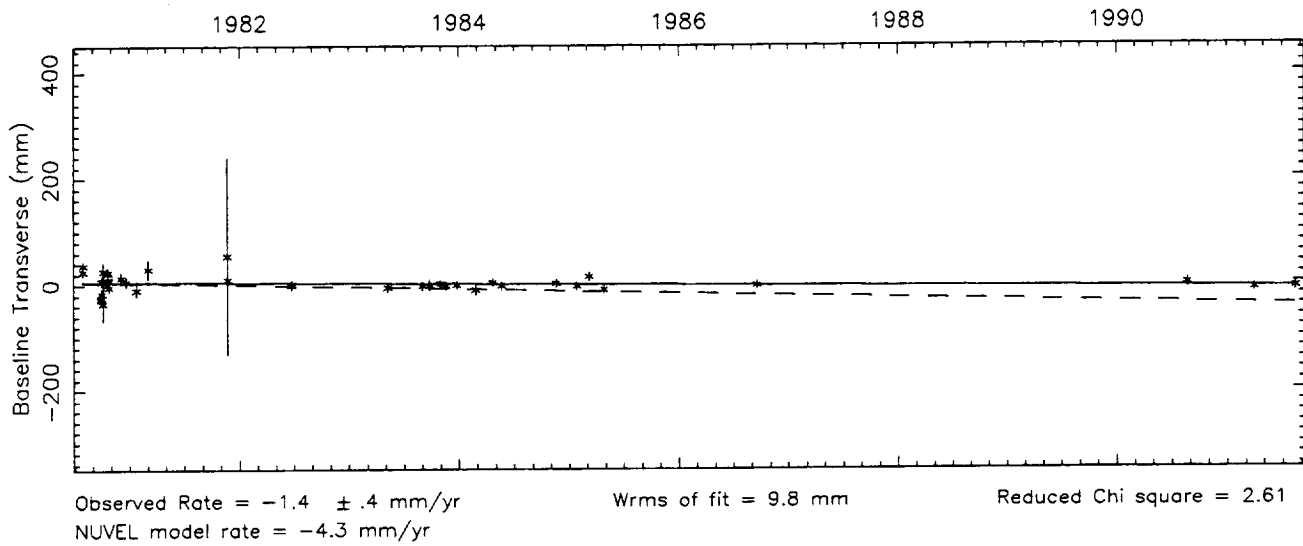
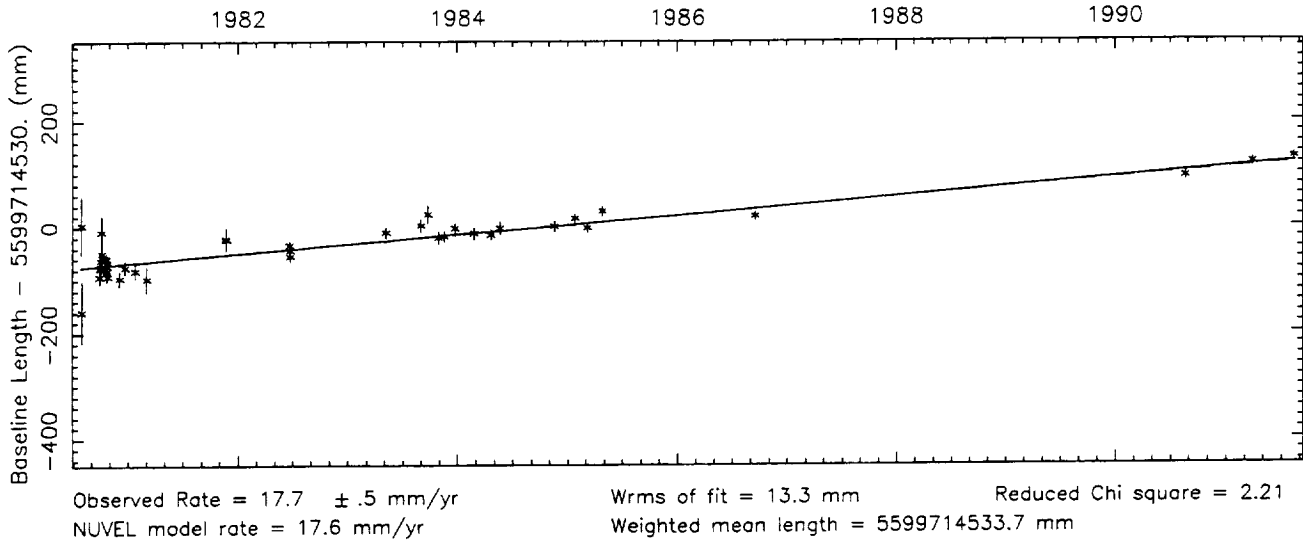
Number of sessions = 5



Vector baseline plots for HAYSTACK-ONSALA60

Baseline length = 5600 kilometers

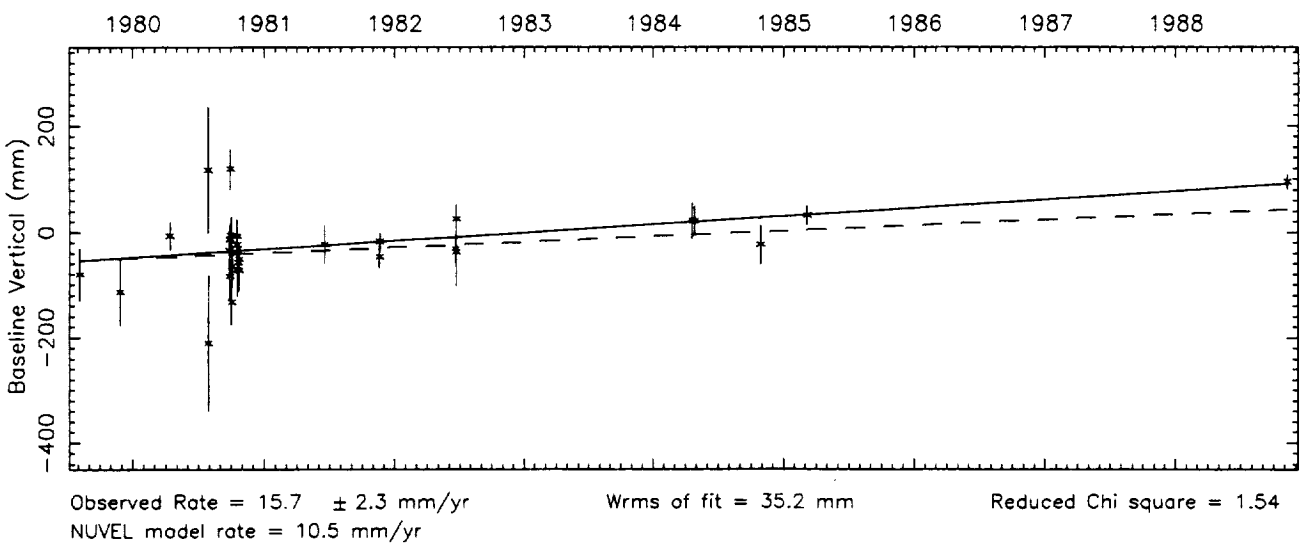
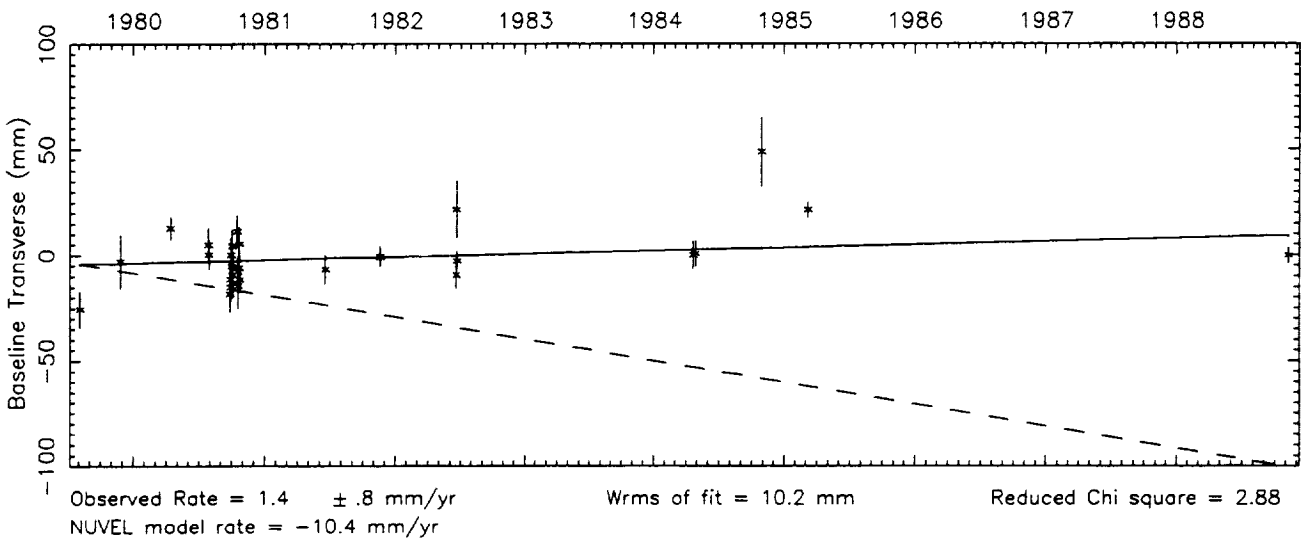
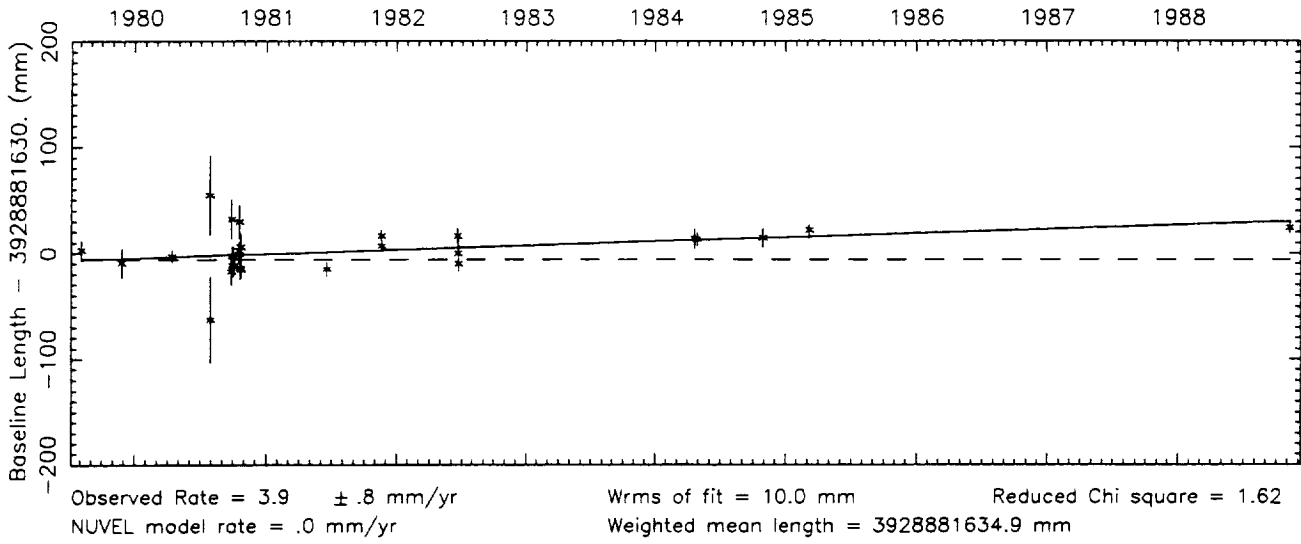
Number of sessions = 42



Vector baseline plots for HAYSTACK-OVRO 130

Baseline length = 3929 kilometers

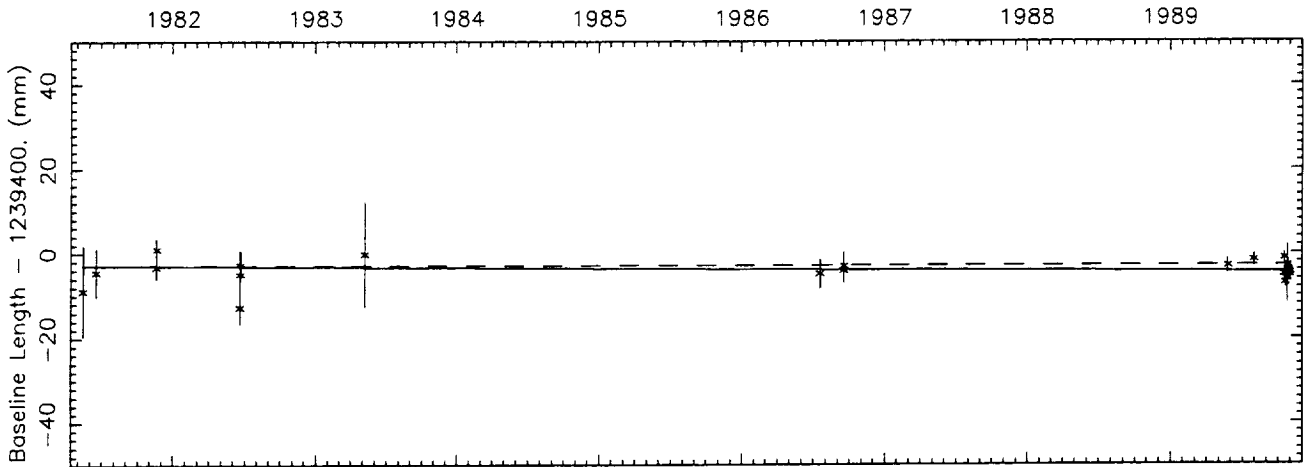
Number of sessions = 29



Vector baseline plots for HAYSTACK-WESTFORD

Baseline length = 1 kilometers

Number of sessions = 26

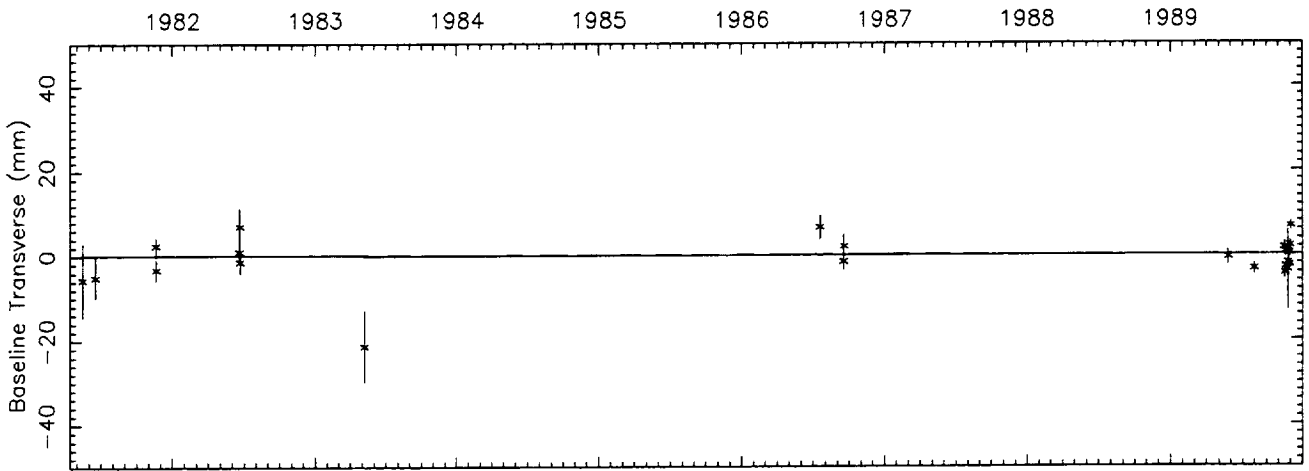


Observed Rate = $-.2 \pm .2$ mm/yr
 NUVEL model rate = $.0$ mm/yr

Wrms of fit = 1.6 mm

Reduced Chi square = 1.34

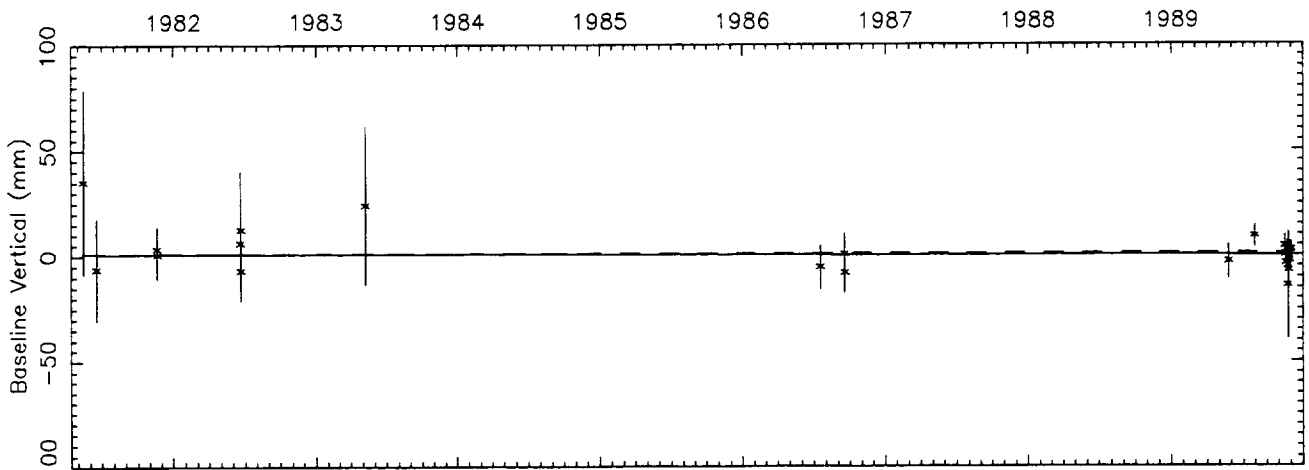
Weighted mean length = 1239395.6 mm



Observed Rate = $.0 \pm .3$ mm/yr
 NUVEL model rate = $.0$ mm/yr

Wrms of fit = 2.9 mm

Reduced Chi square = 4.69



Observed Rate = $-.1 \pm .6$ mm/yr
 NUVEL model rate = $.0$ mm/yr

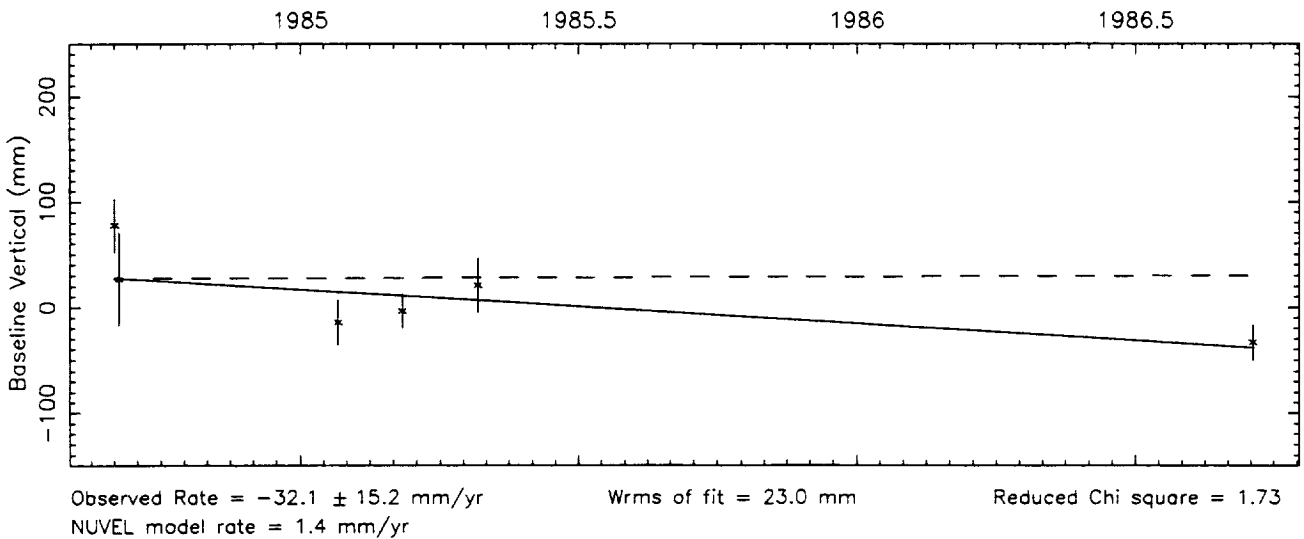
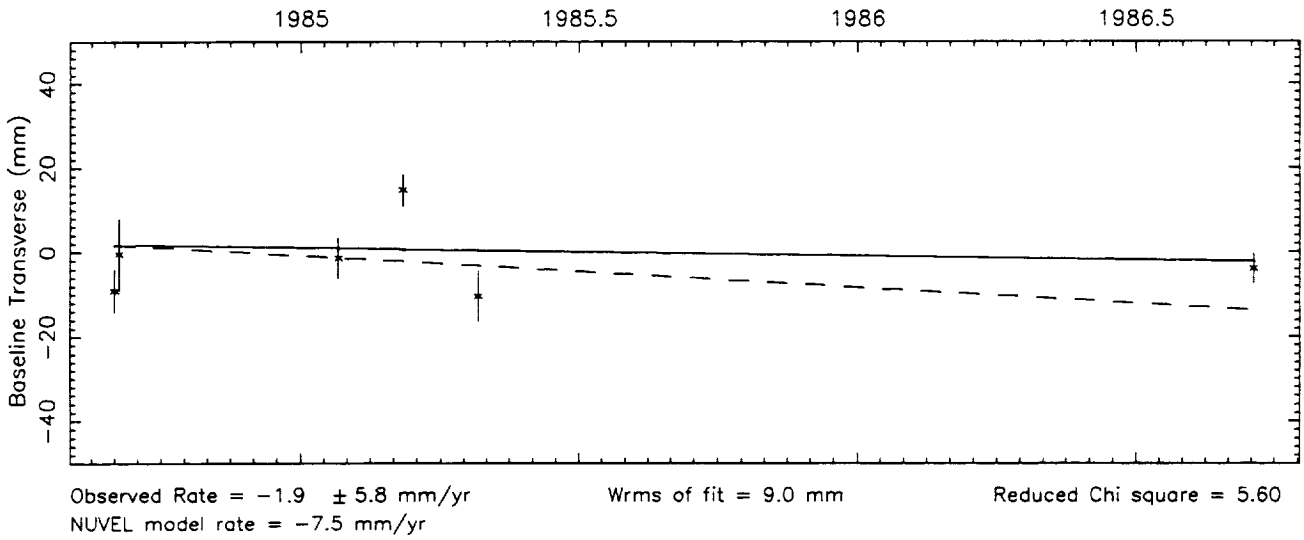
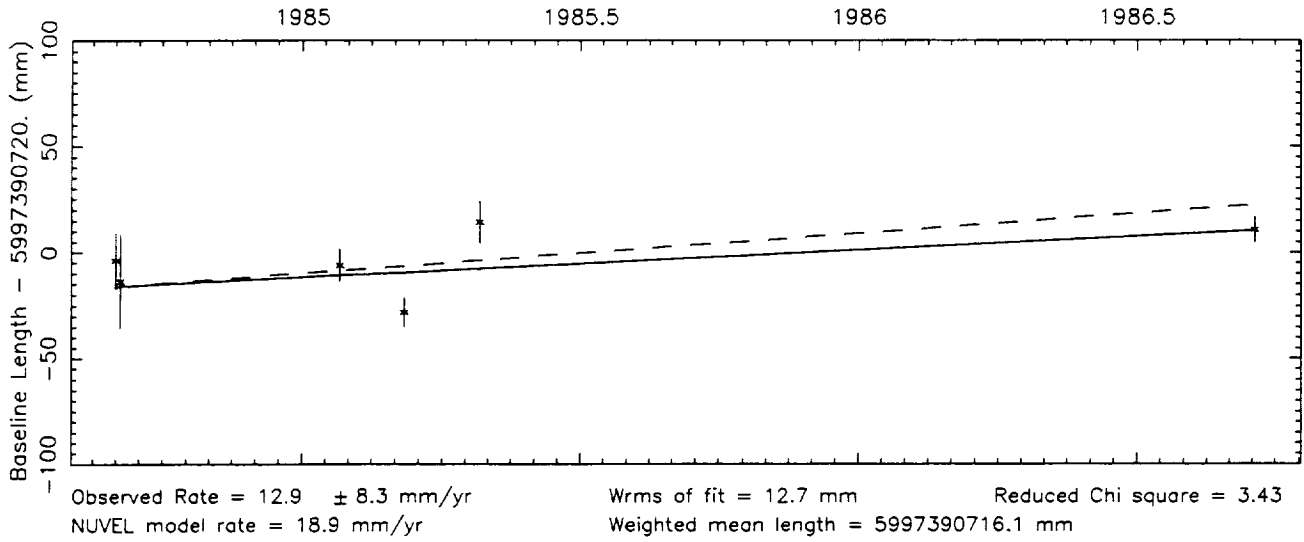
Wrms of fit = 4.3 mm

Reduced Chi square = .69

Vector baseline plots for HAYSTACK-WETTZELL

Baseline length = 5997 kilometers

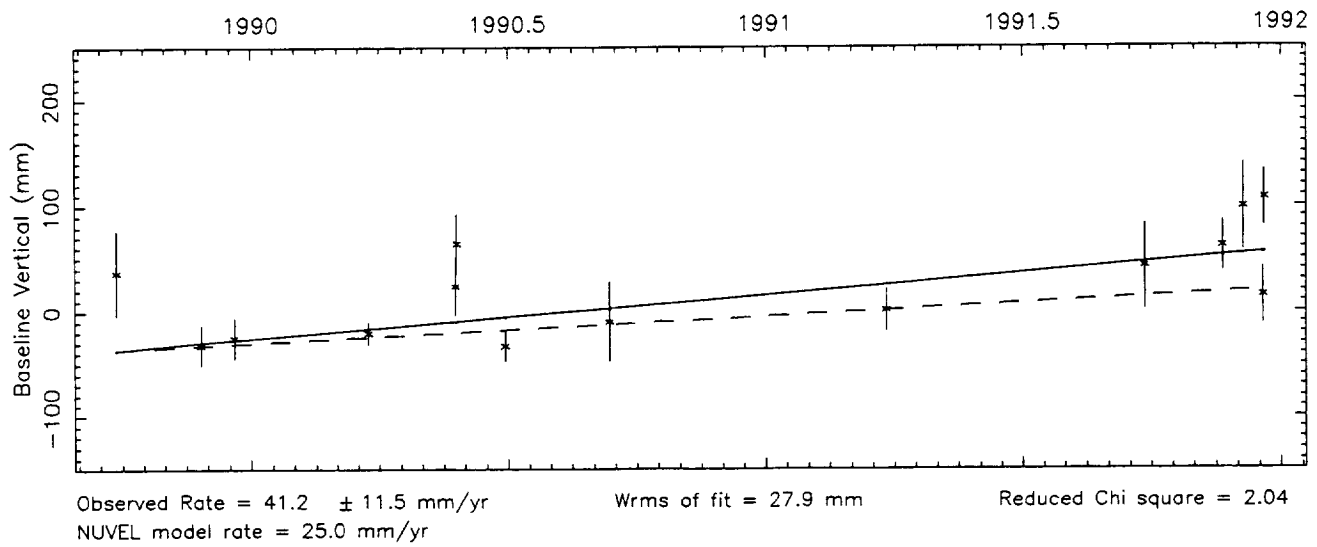
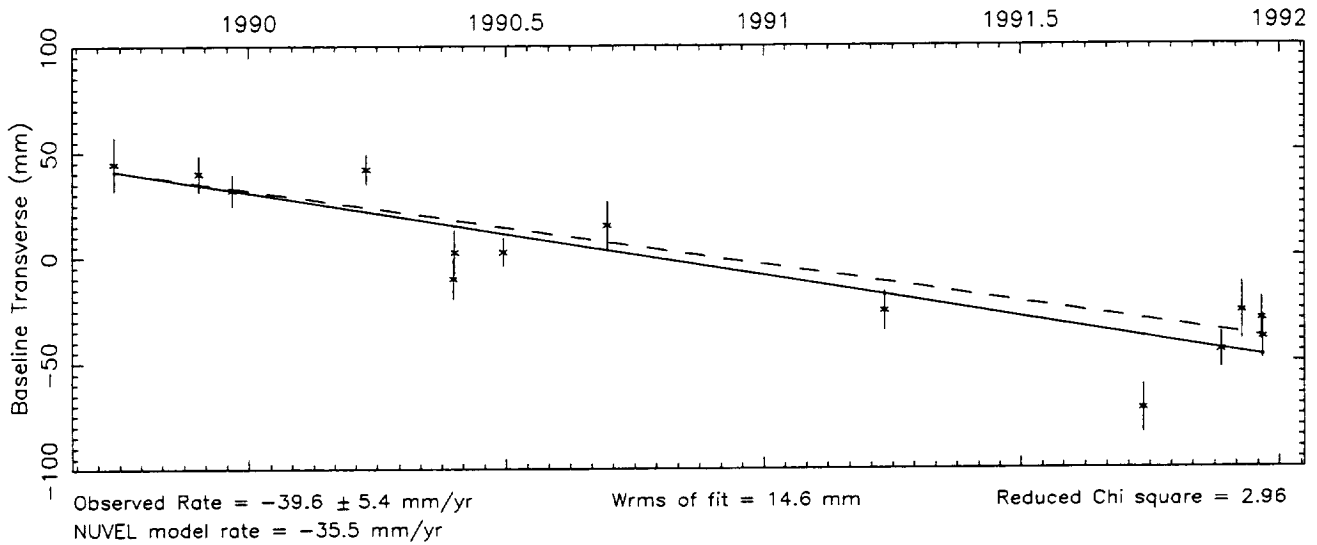
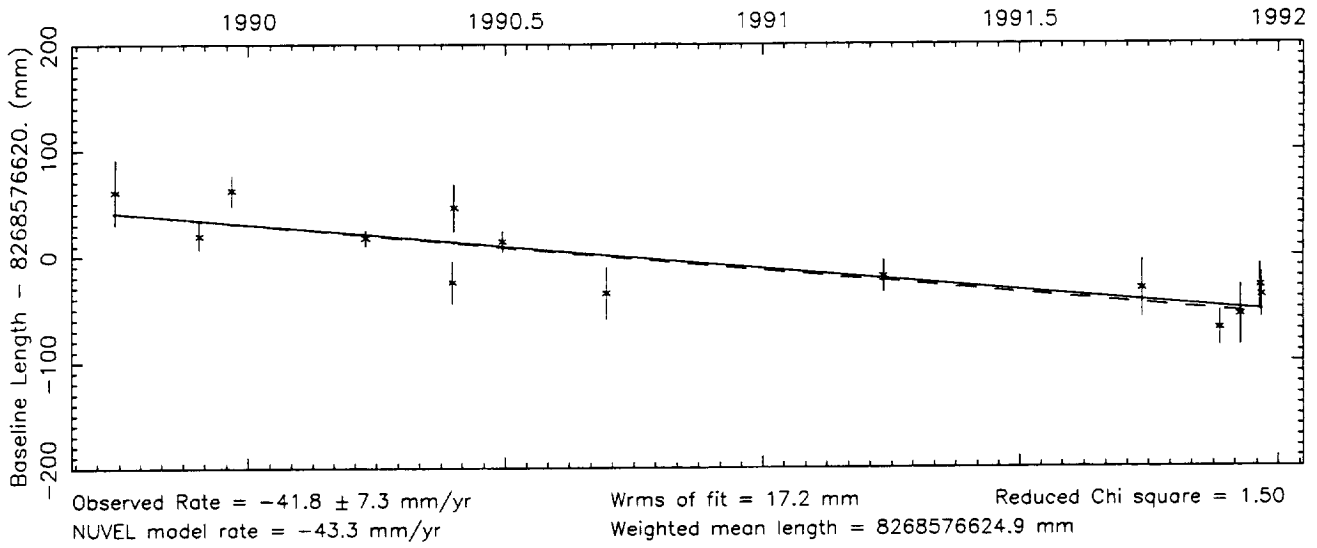
Number of sessions = 6



Vector baseline plots for HOBART26-KAUAI

Baseline length = 8269 kilometers

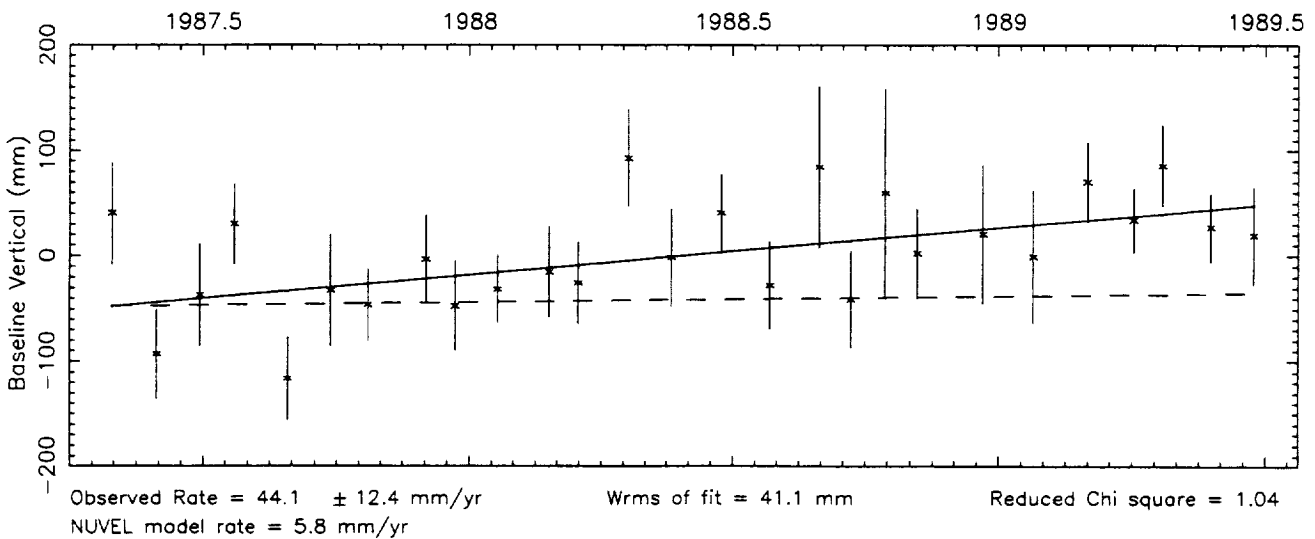
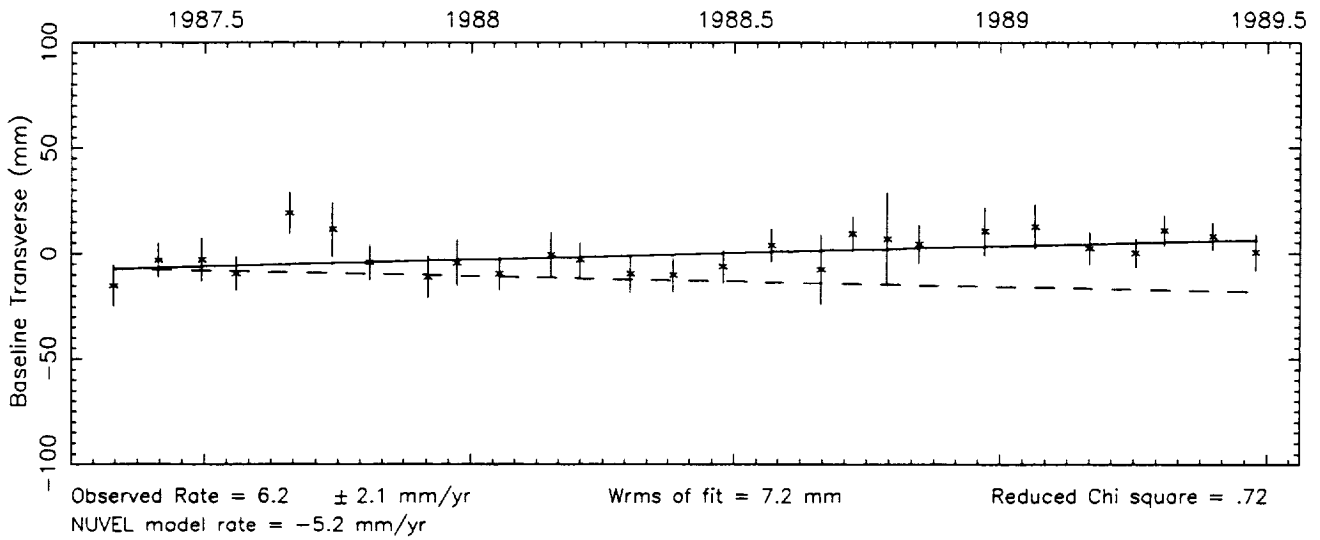
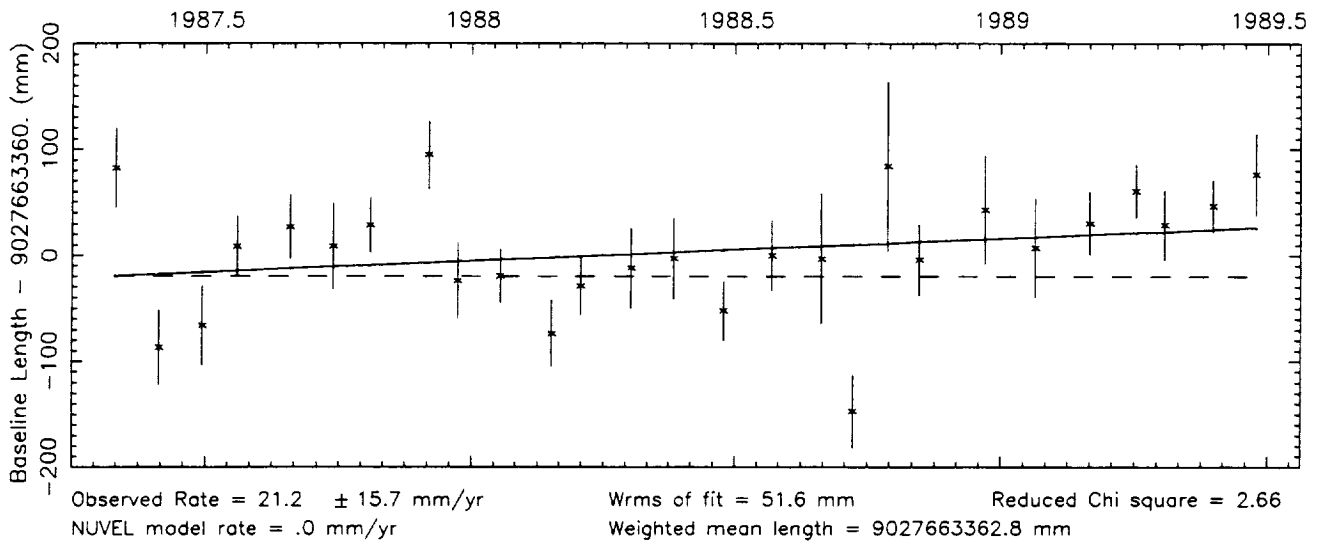
Number of sessions = 14



Vector baseline plots for HRAS 085-KASHIMA

Baseline length = 9028 kilometers

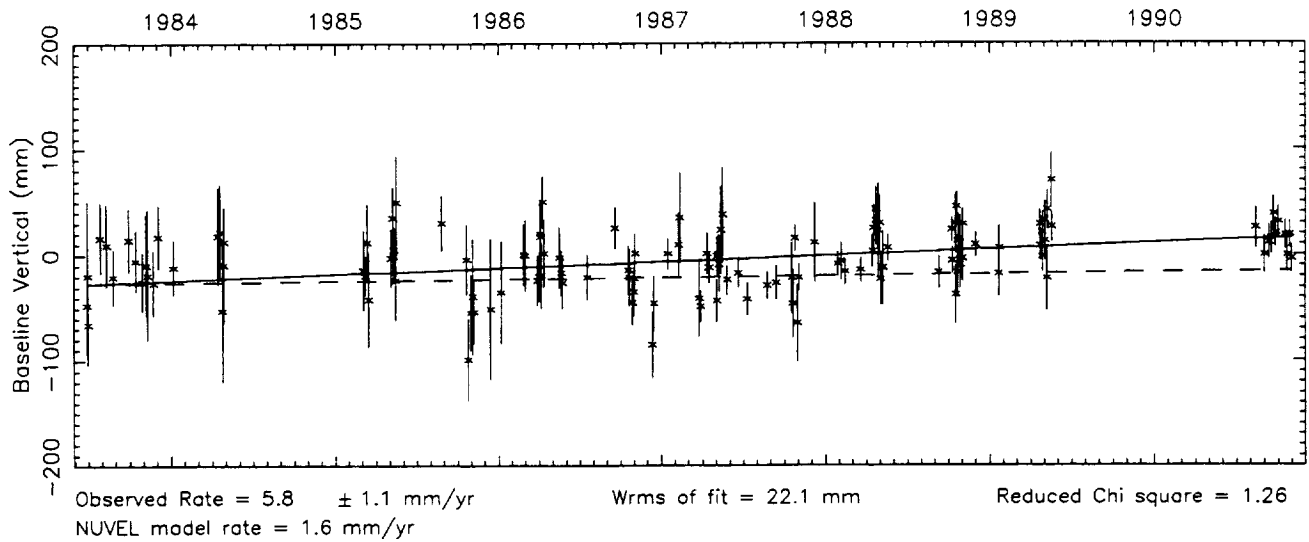
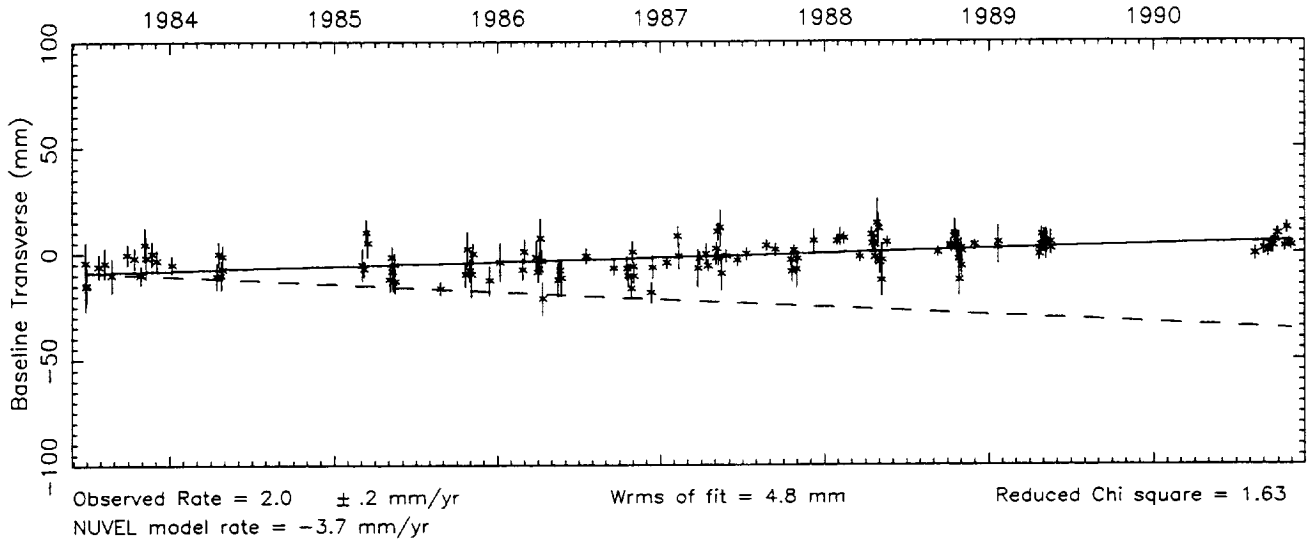
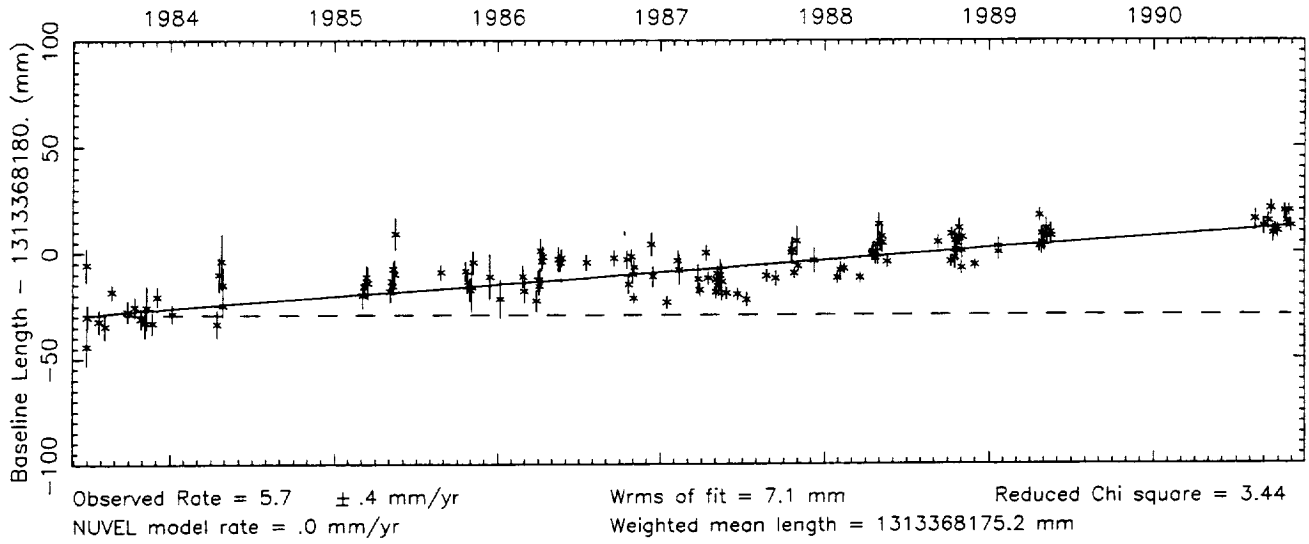
Number of sessions = 27



Vector baseline plots for HRAS 085-MOJAVE12

Baseline length = 1313 kilometers

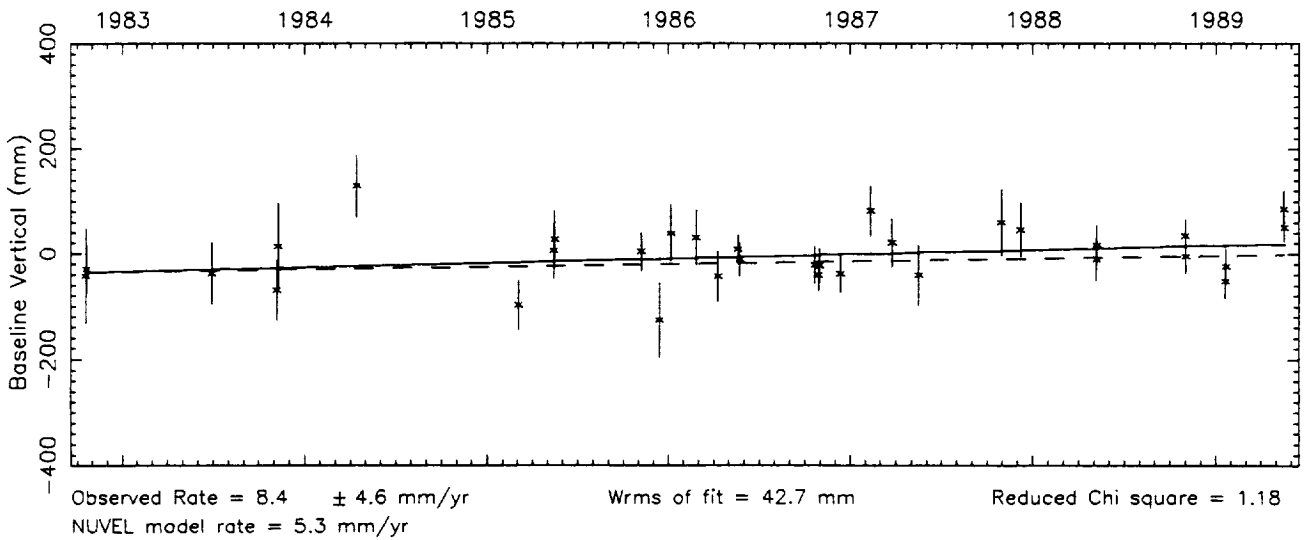
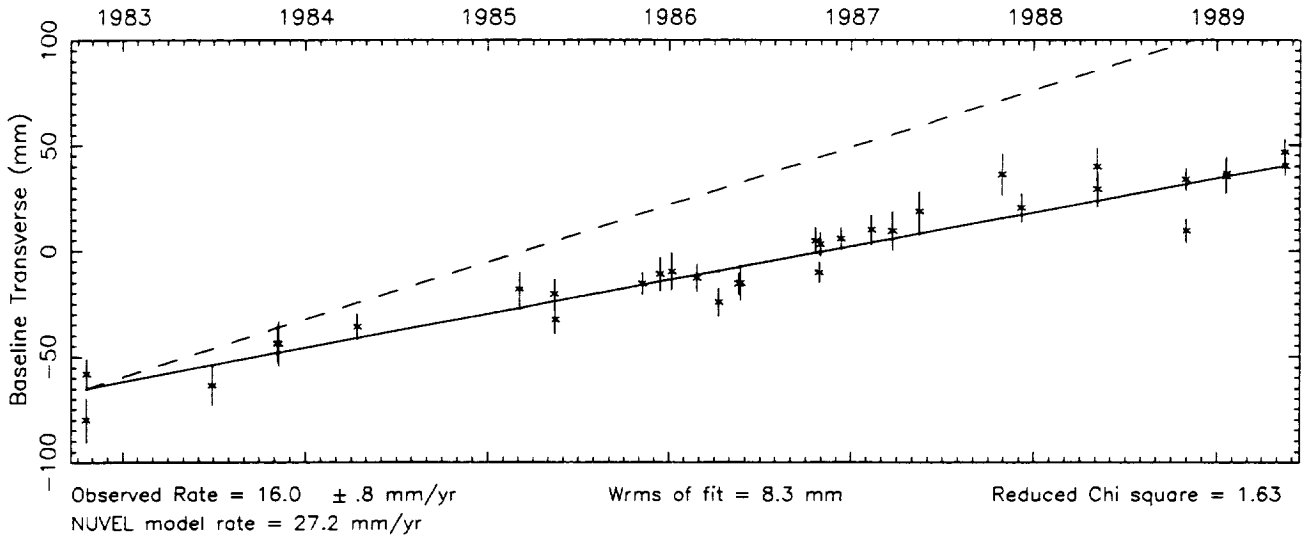
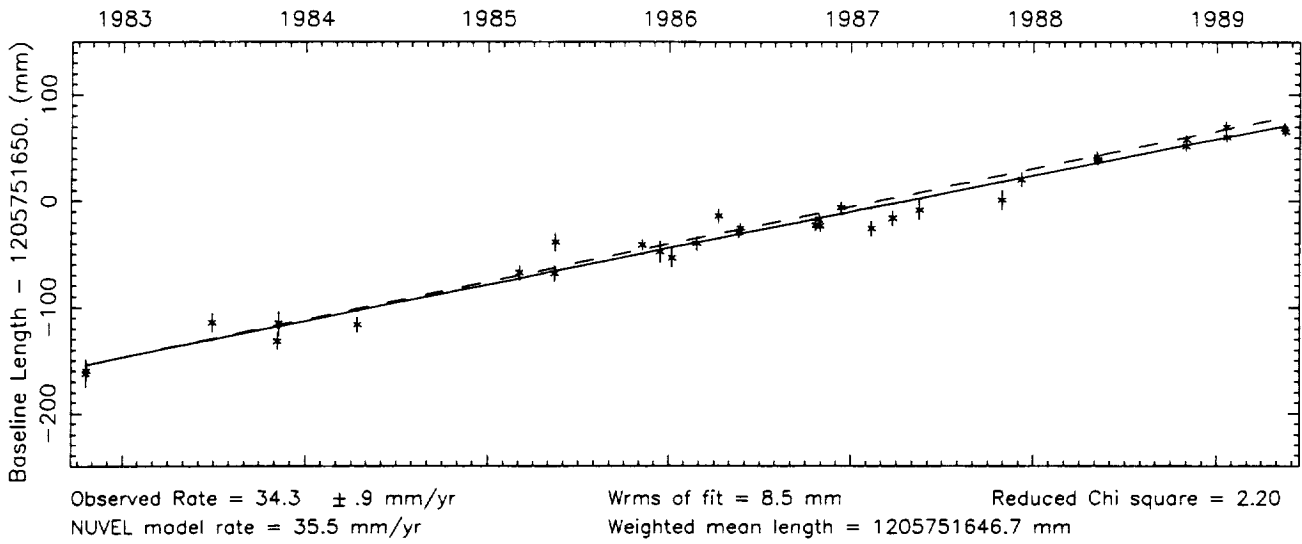
Number of sessions = 134



Vector baseline plots for HRAS 085-MON PEAK

Baseline length = 1206 kilometers

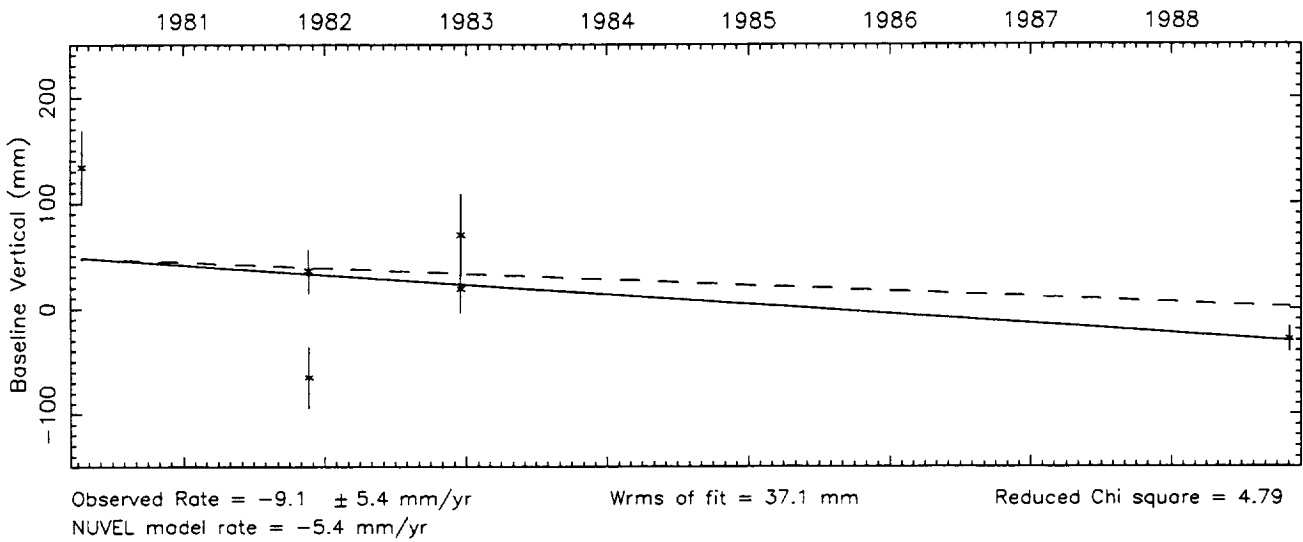
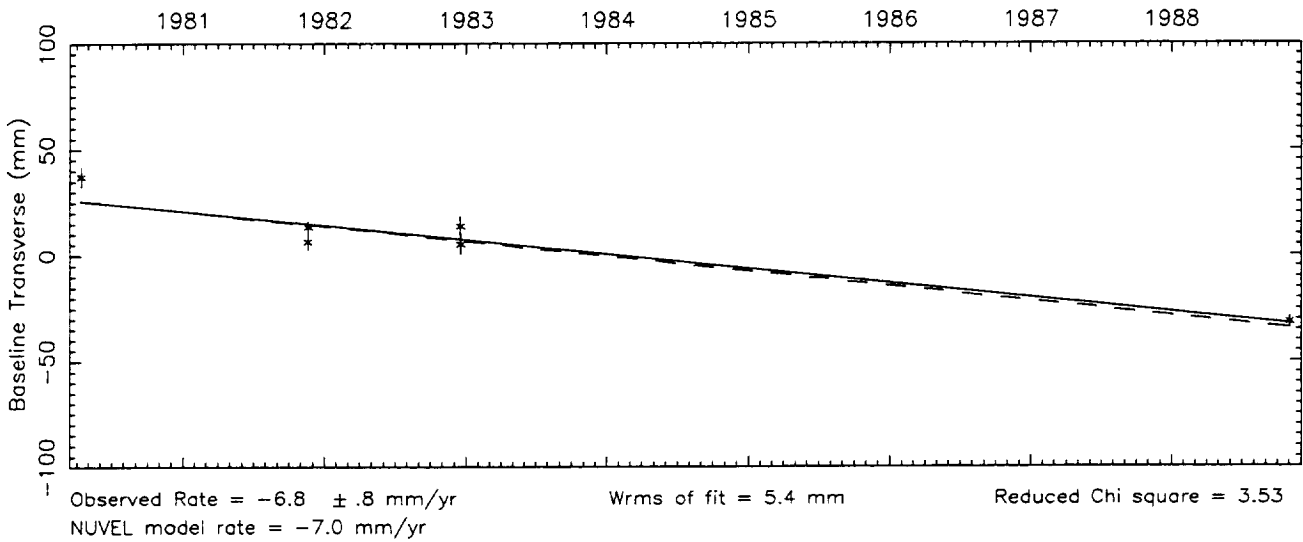
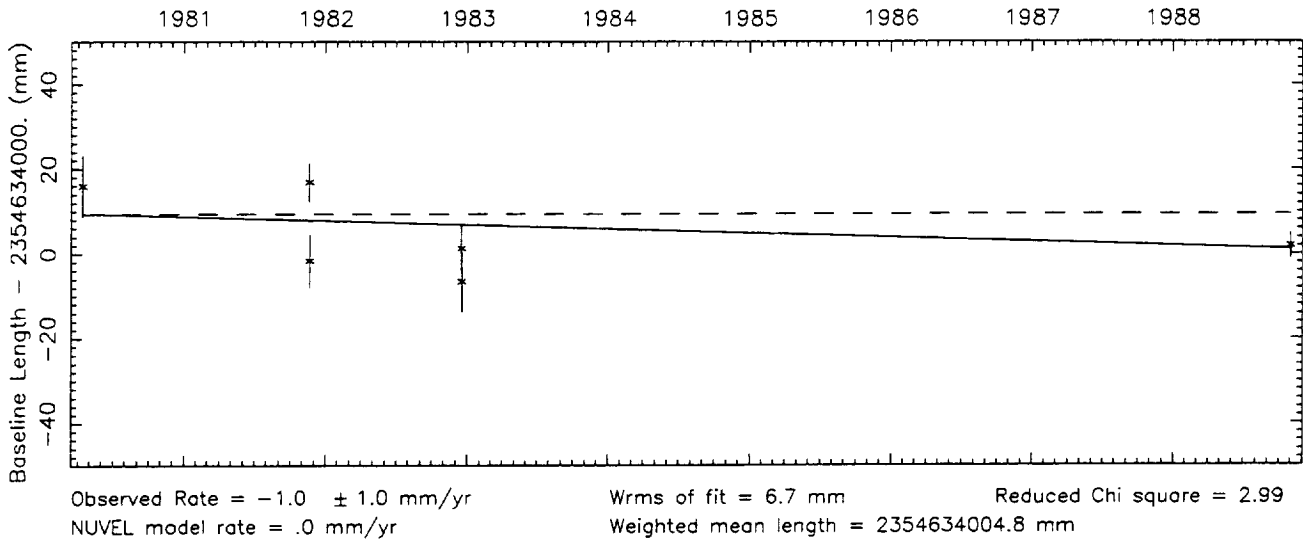
Number of sessions = 33



Vector baseline plots for HRAS 085-NRAO 140

Baseline length = 2355 kilometers

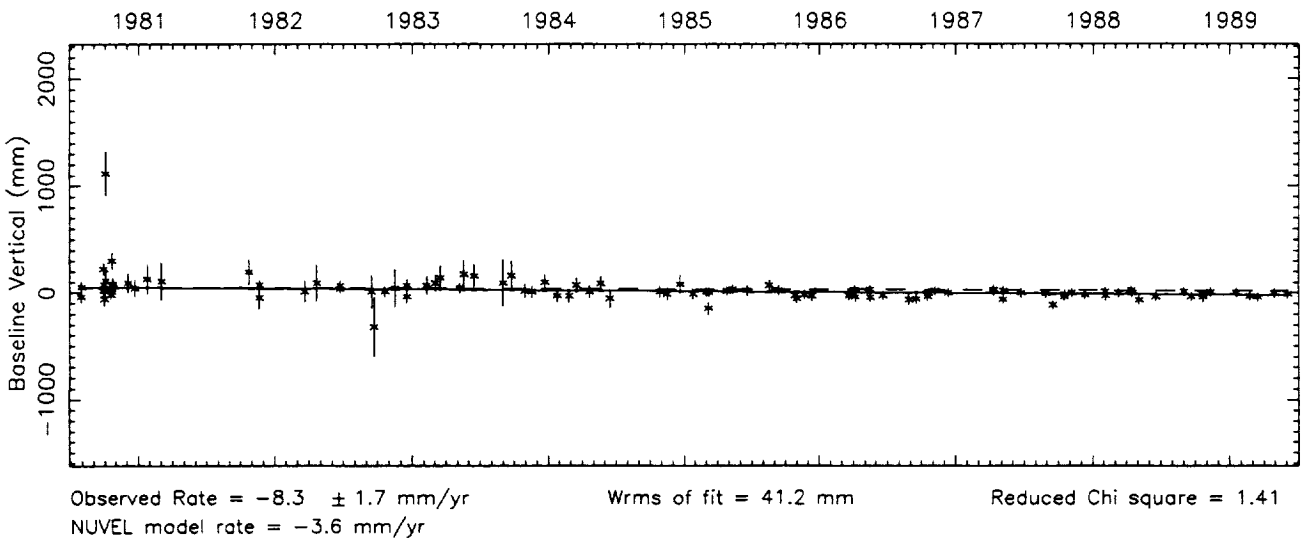
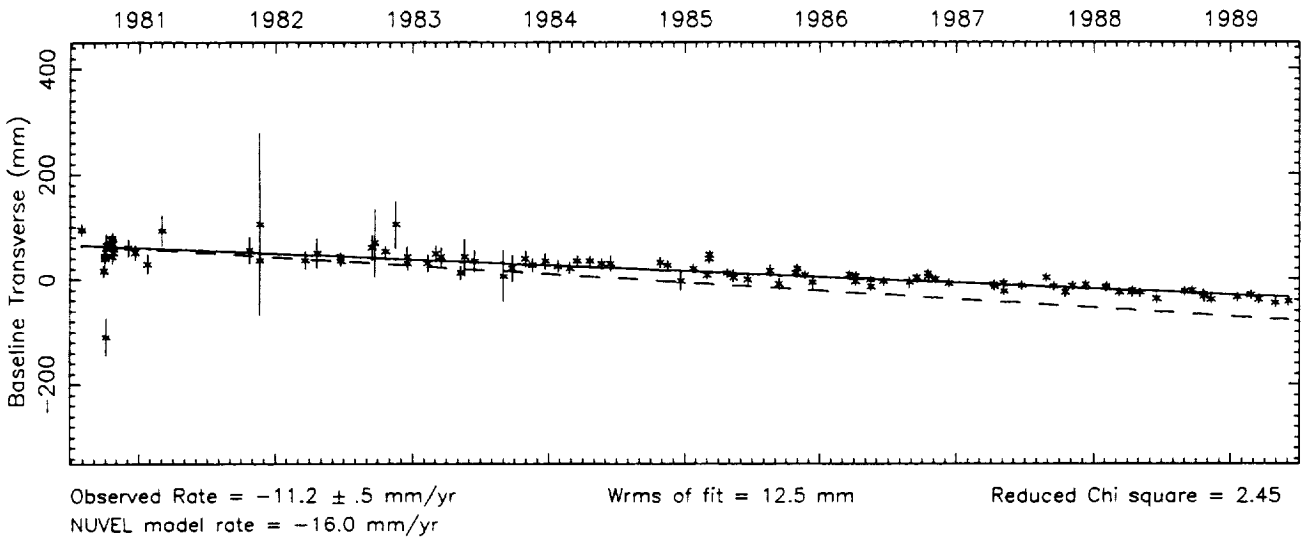
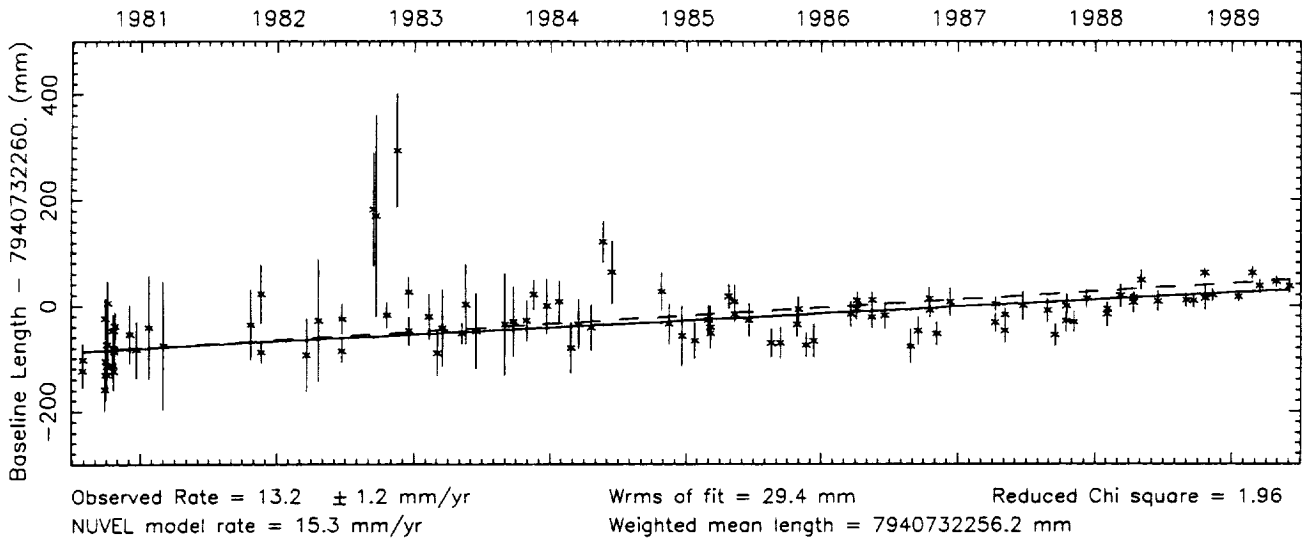
Number of sessions = 6



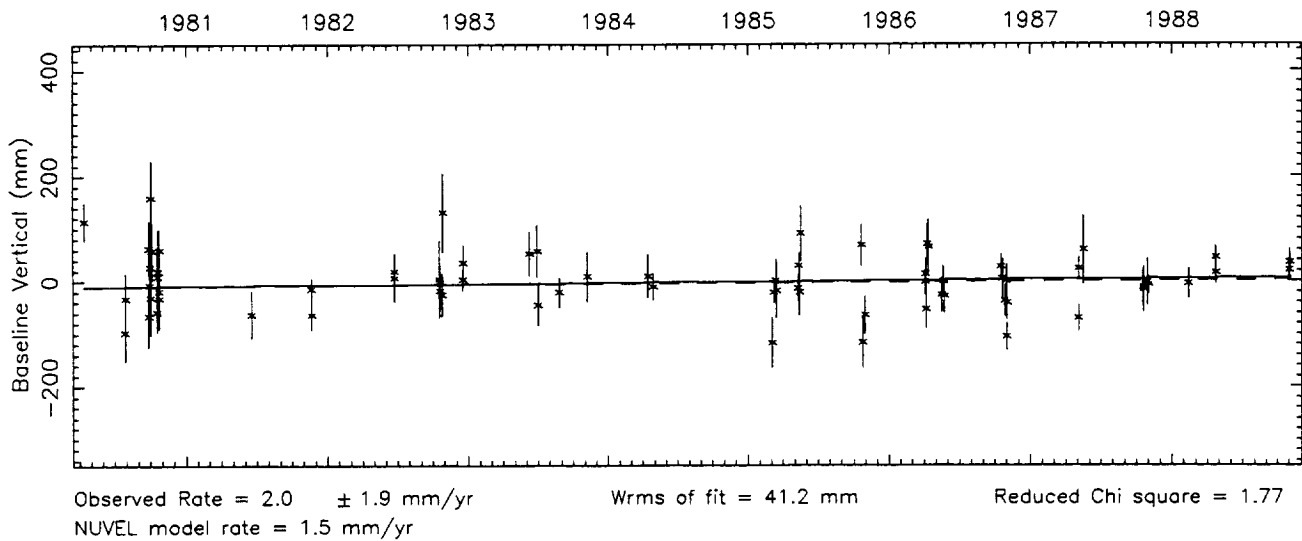
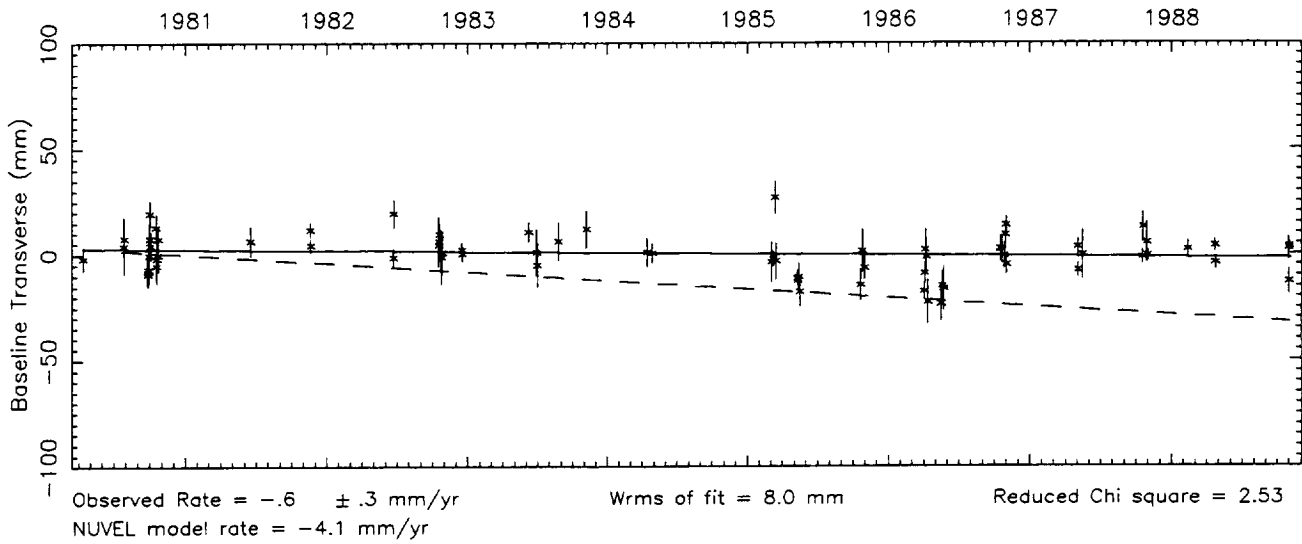
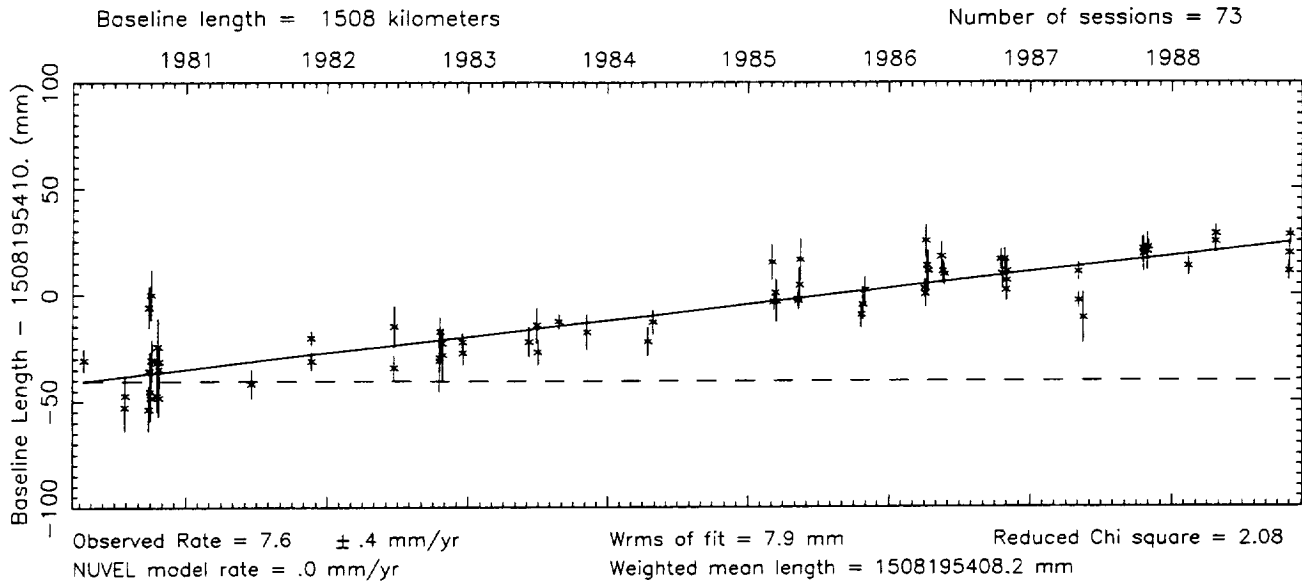
Vector baseline plots for HRAS 085-ONSALA60

Baseline length = 7941 kilometers

Number of sessions = 107



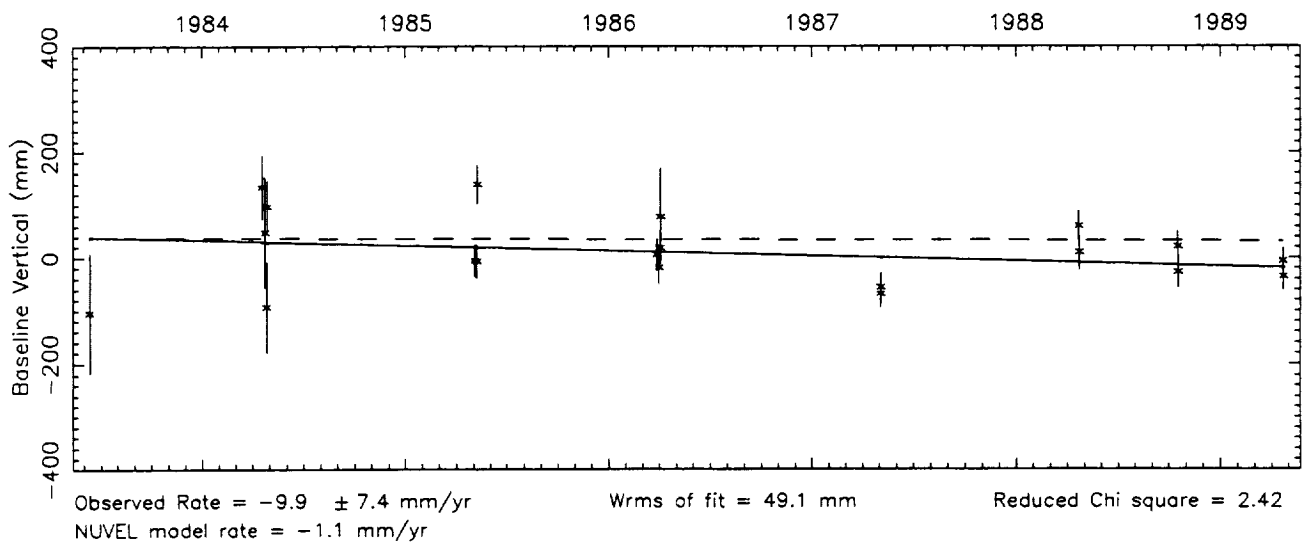
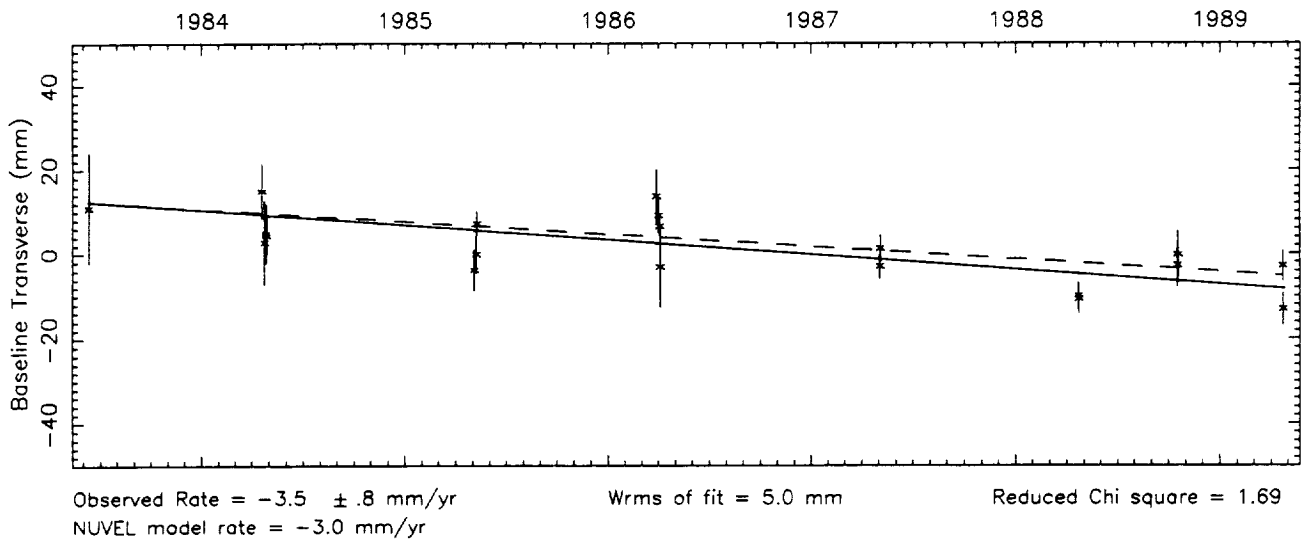
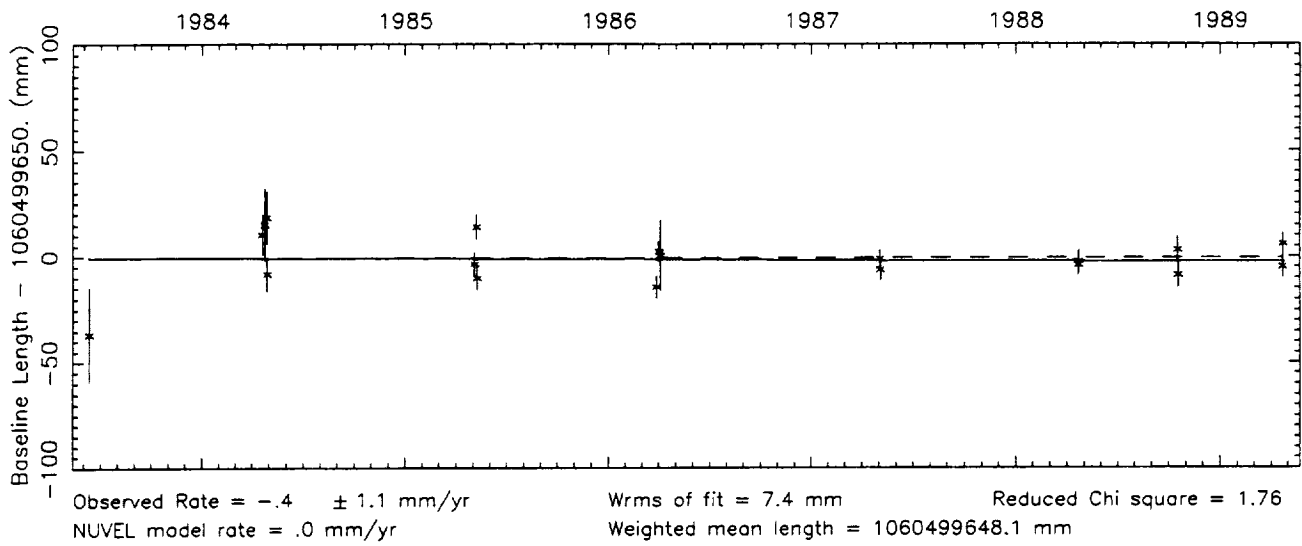
Vector baseline plots for HRAS 085-OVRO 130



Vector baseline plots for HRAS 085-PLATTVIL

Baseline length = 1060 kilometers

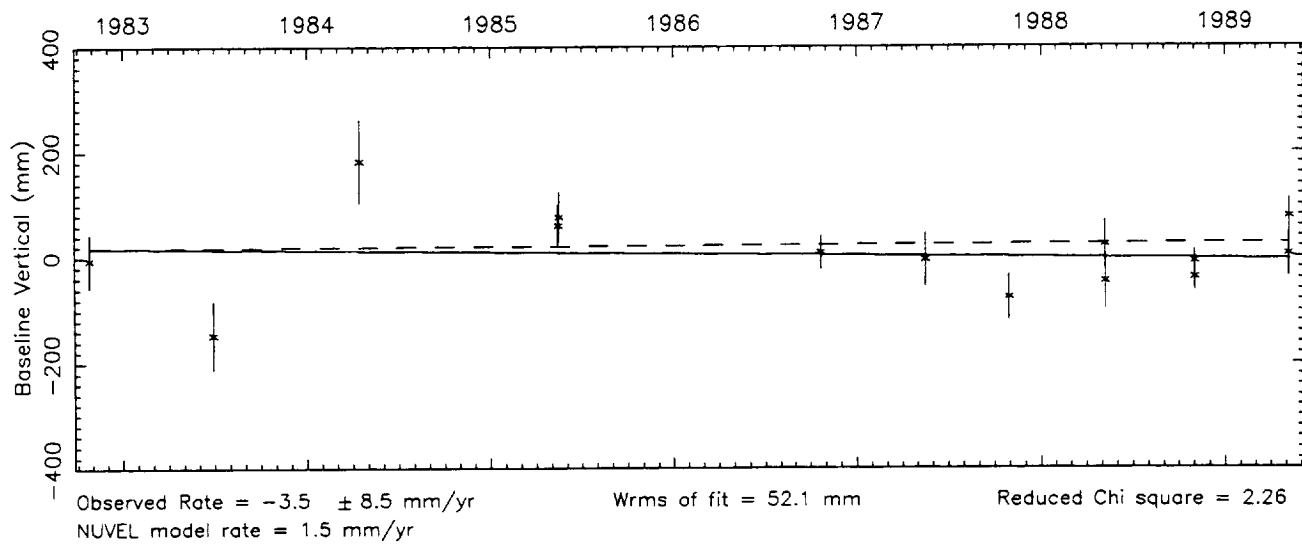
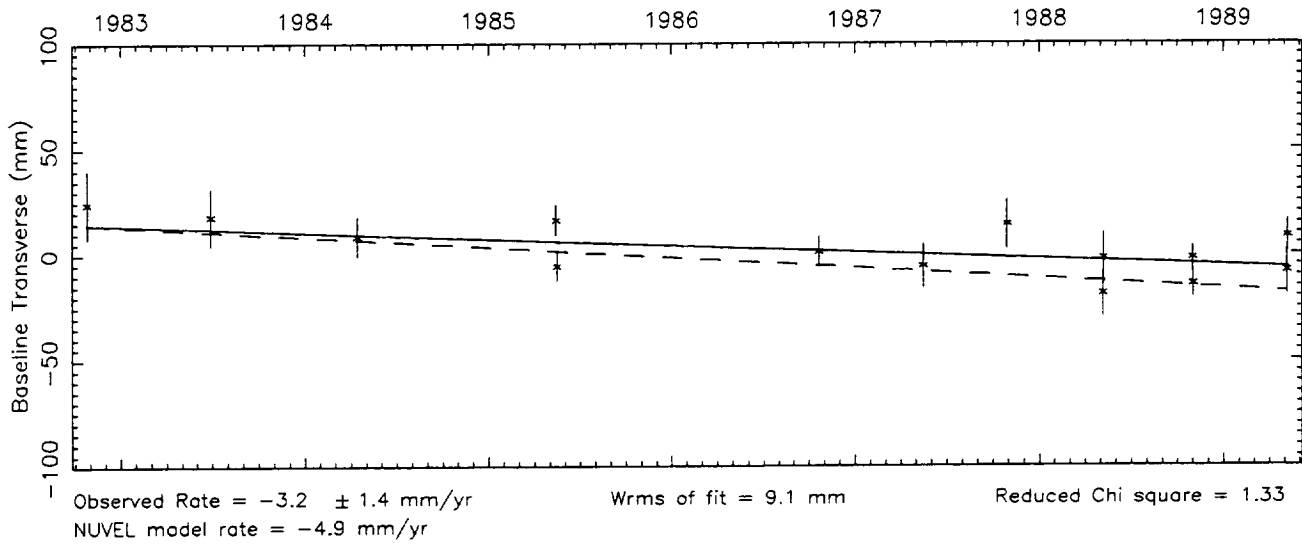
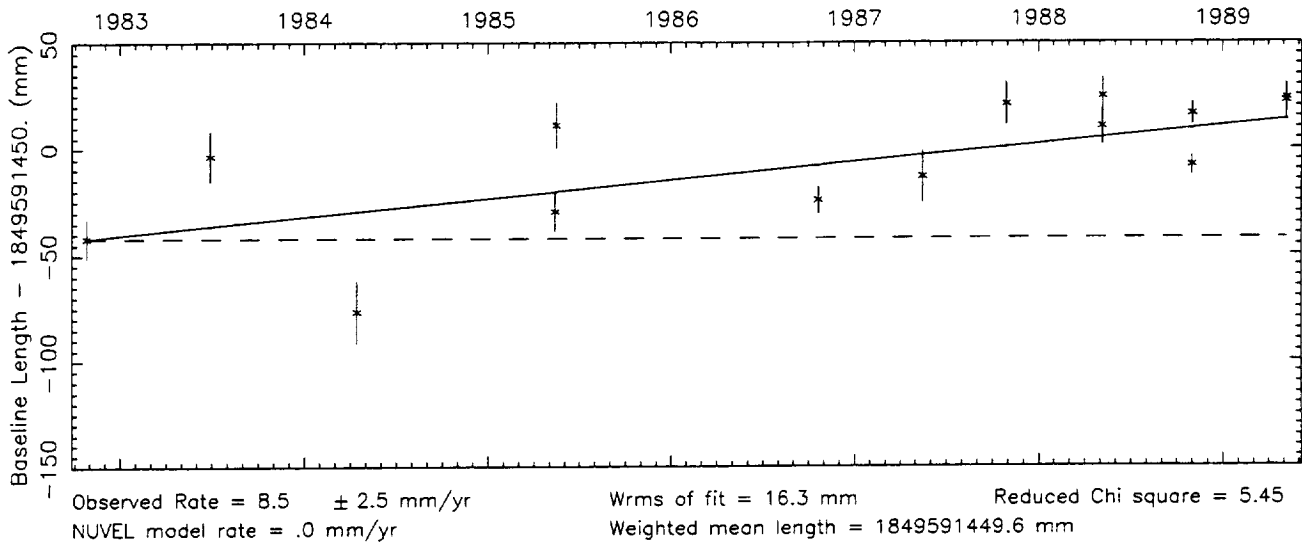
Number of sessions = 20



Vector baseline plots for HRAS 085-QUINCY

Baseline length = 1850 kilometers

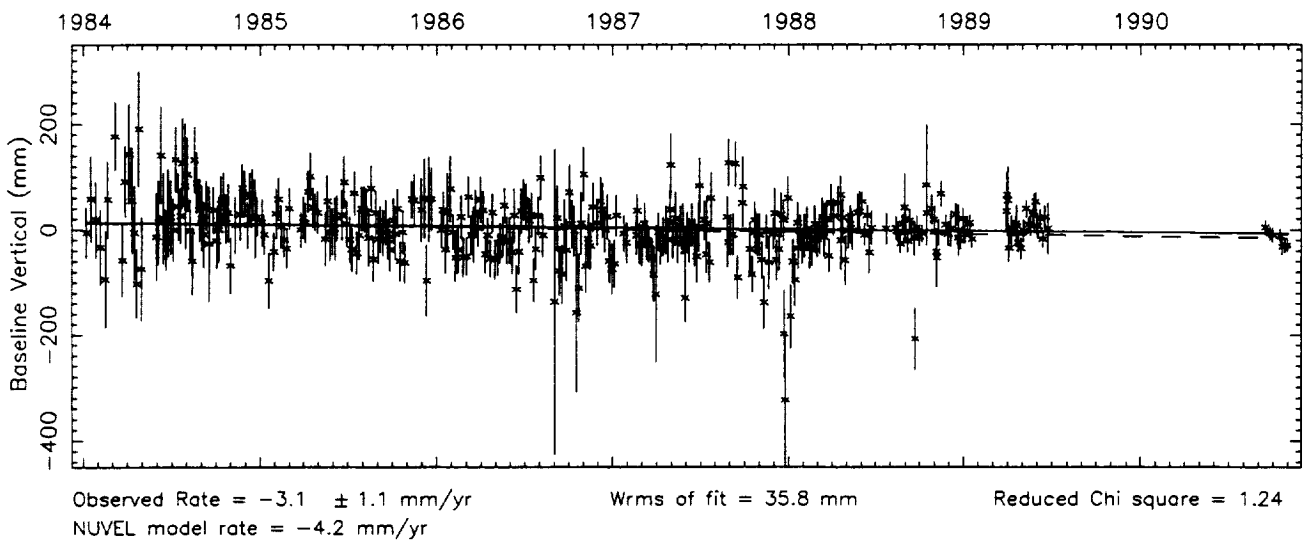
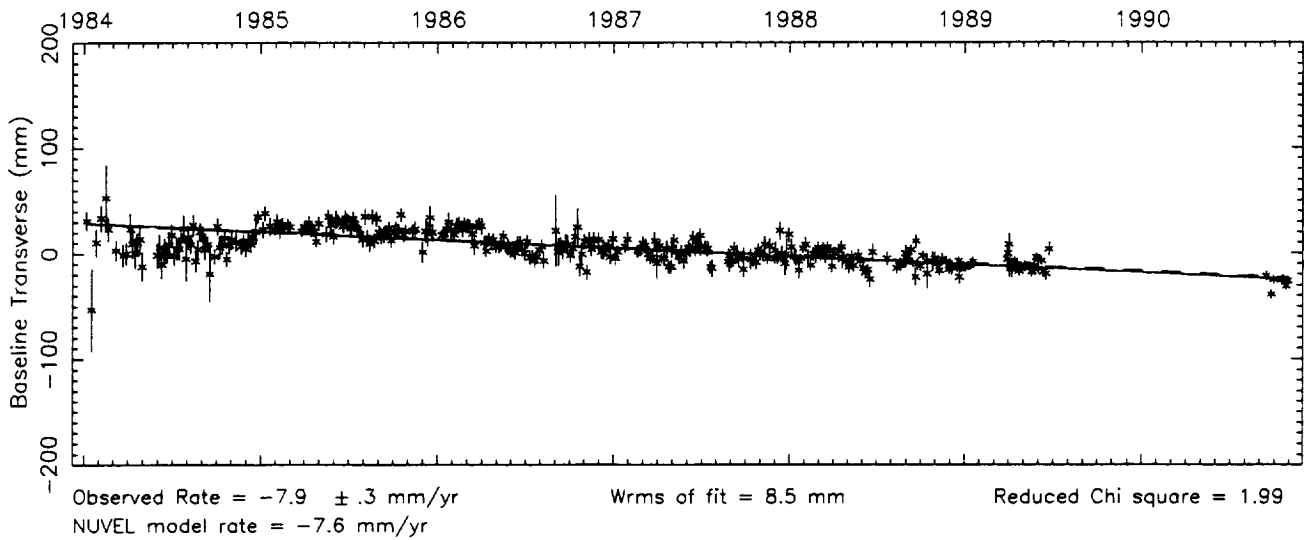
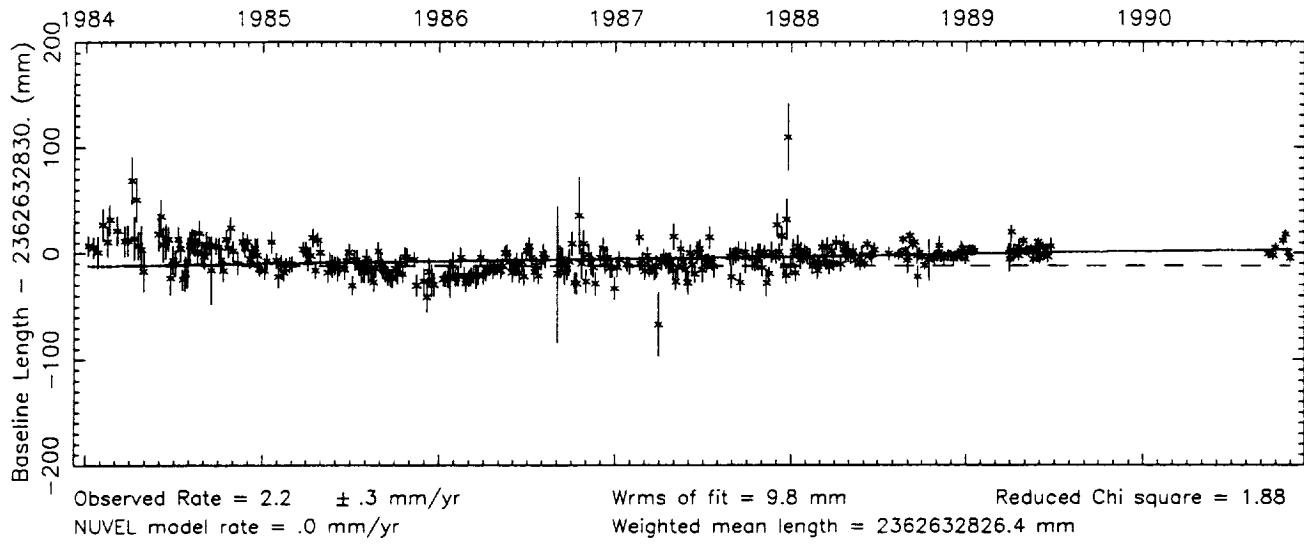
Number of sessions = 14



Vector baseline plots for HRAS 085-RICHMOND

Baseline length = 2363 kilometers

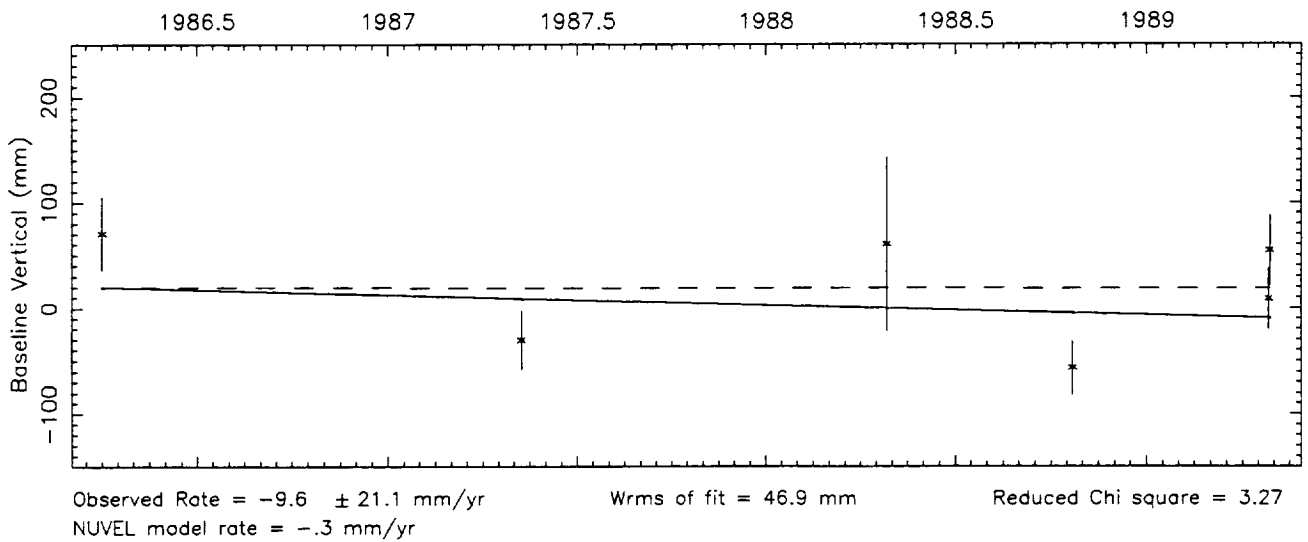
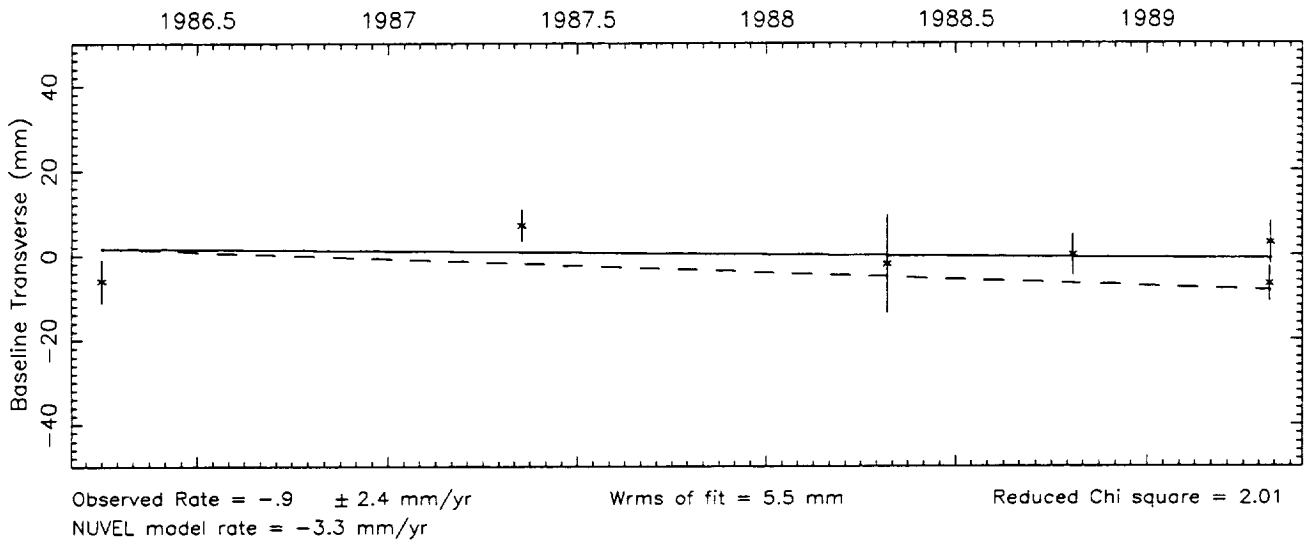
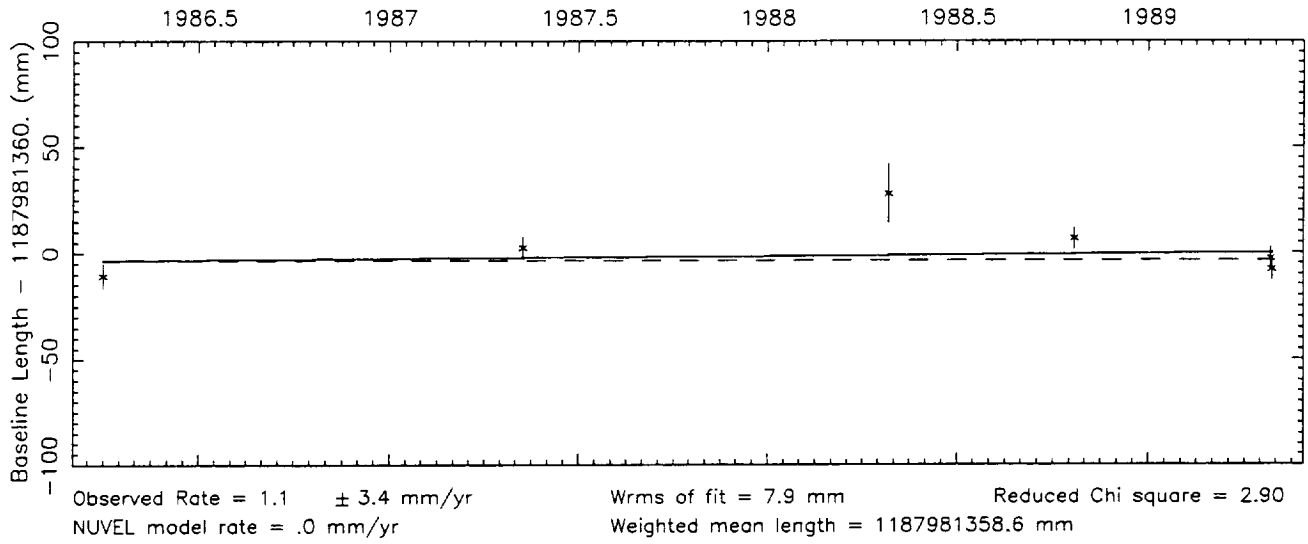
Number of sessions = 350



Vector baseline plots for HRAS 085-VERNAL

Baseline length = 1188 kilometers

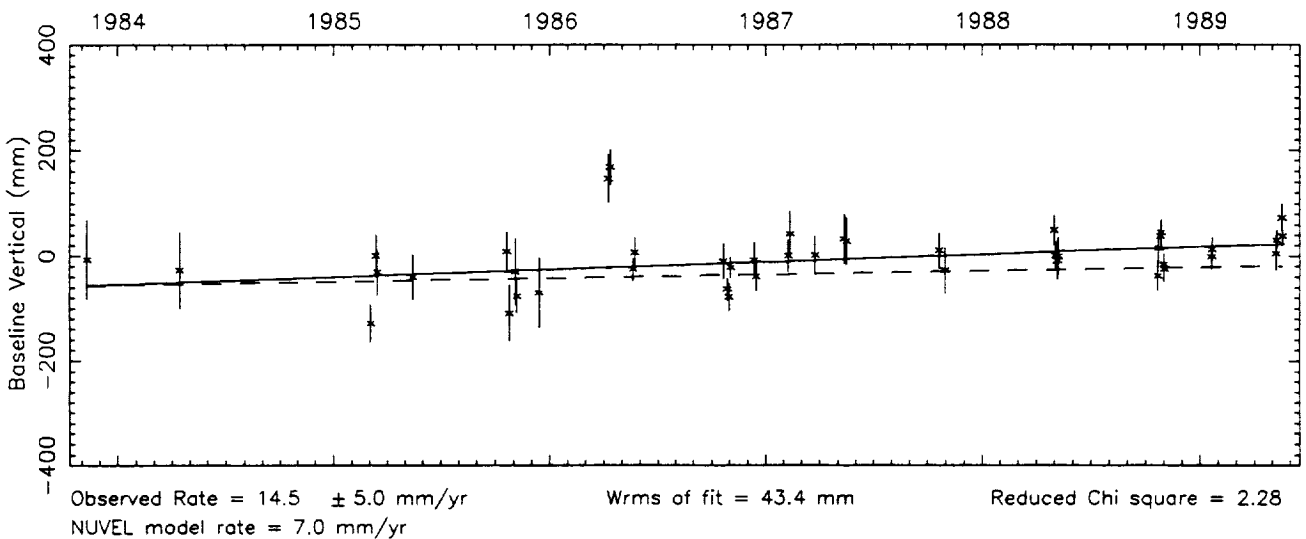
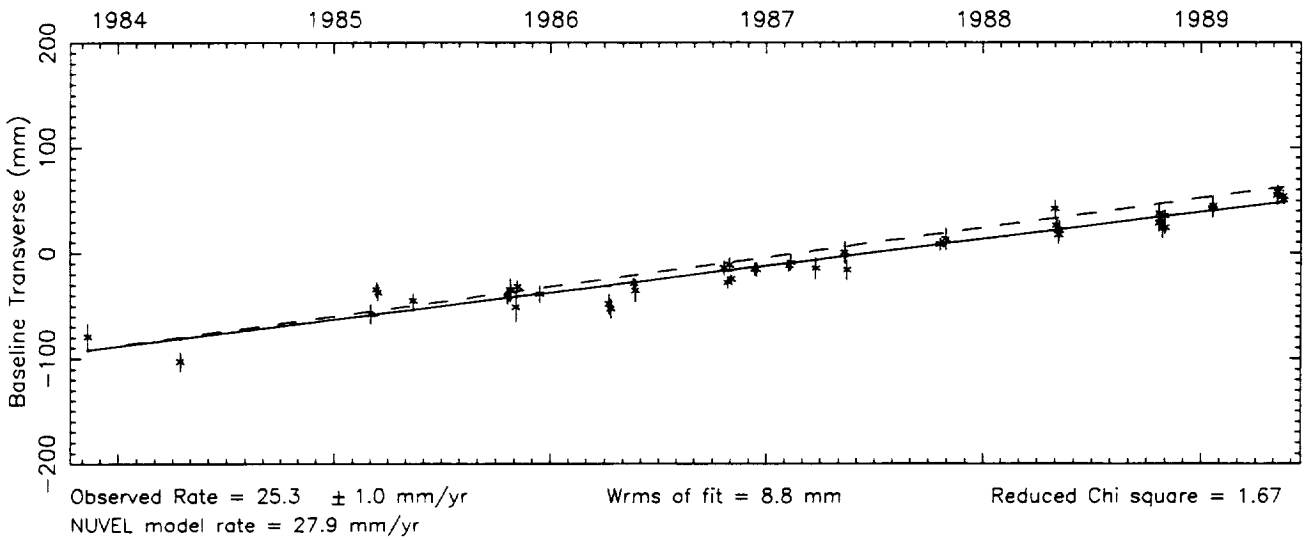
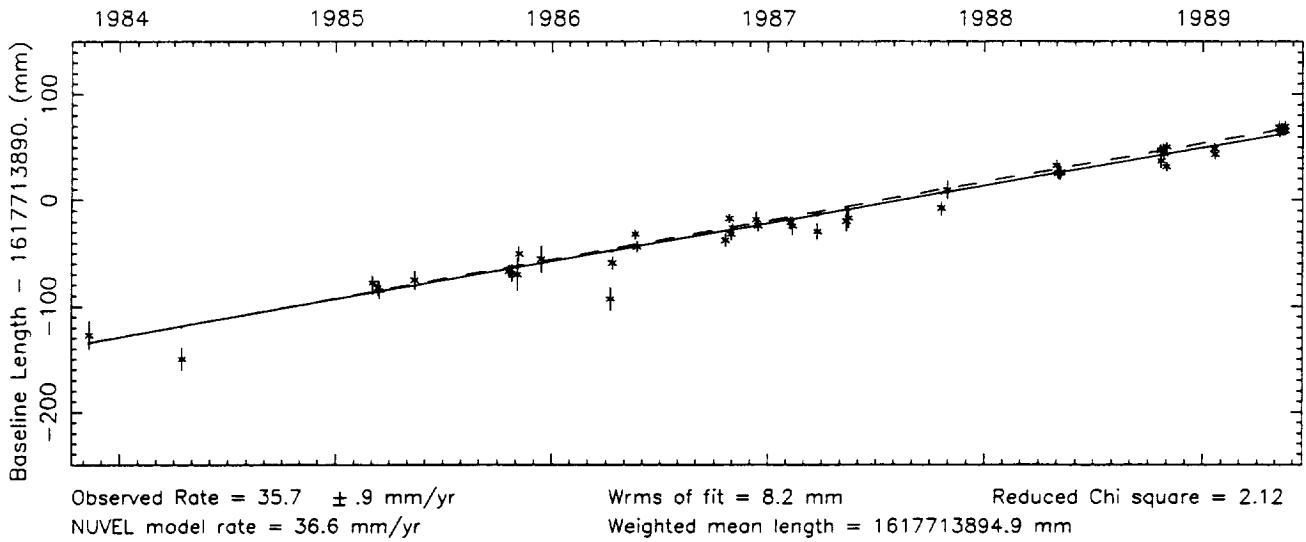
Number of sessions = 6



Vector baseline plots for HRAS 085-VNDNBERG

Baseline length = 1618 kilometers

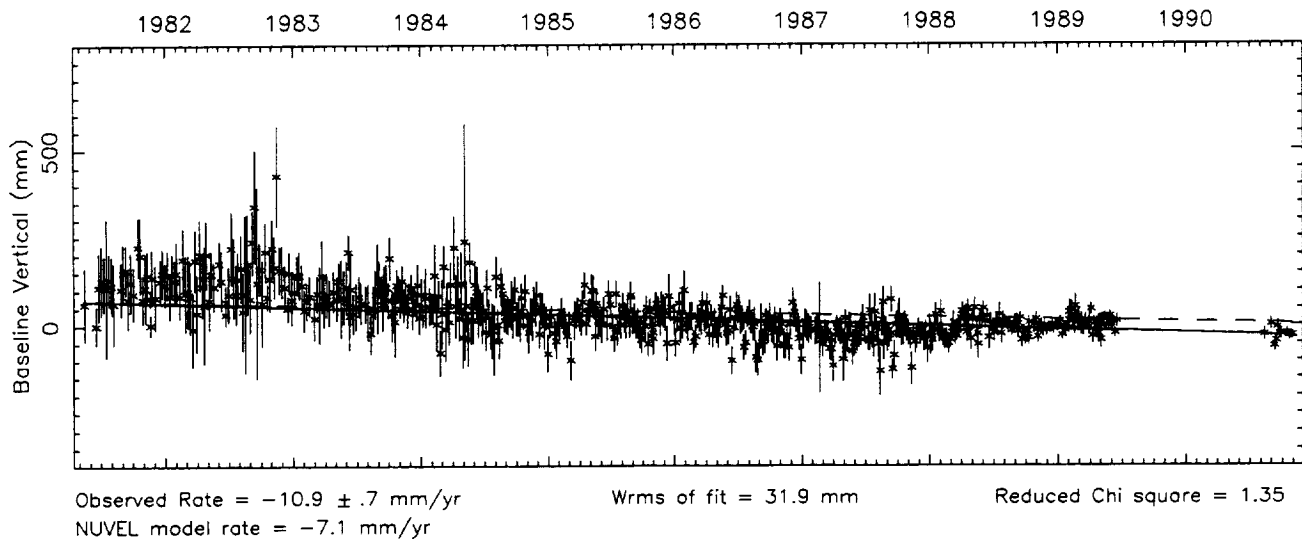
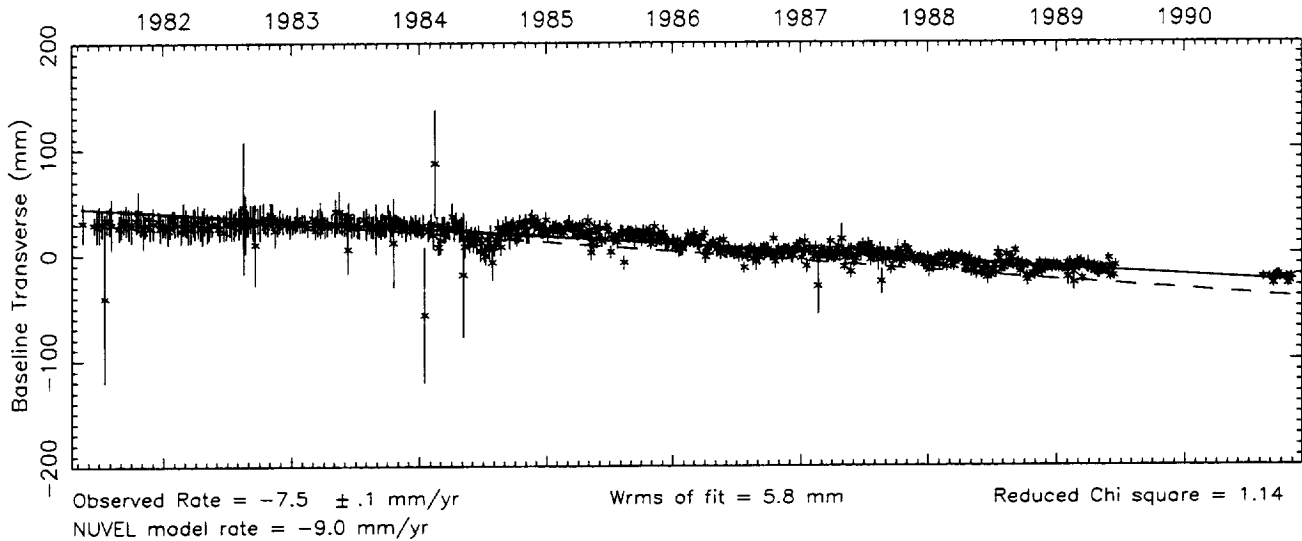
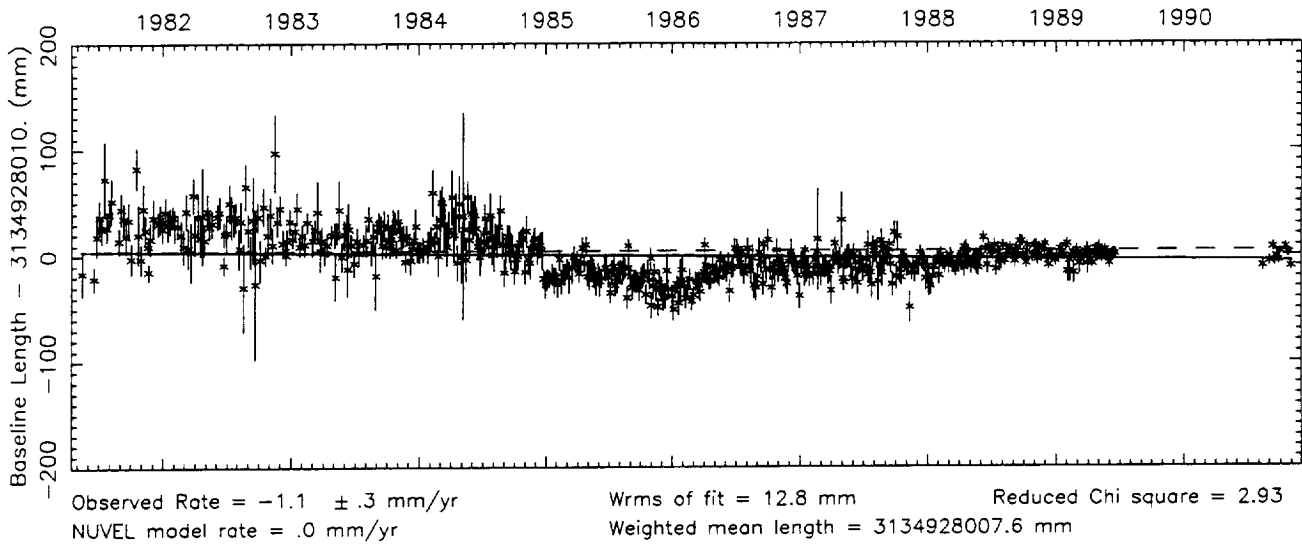
Number of sessions = 44



Vector baseline plots for HRAS 085-WESTFORD

Baseline length = 3135 kilometers

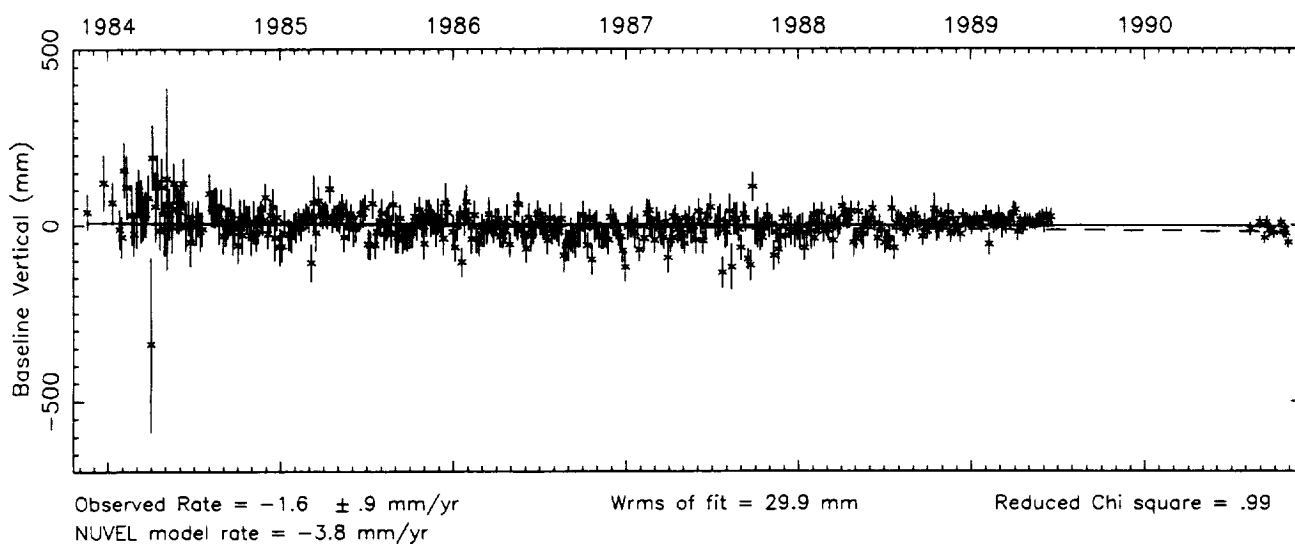
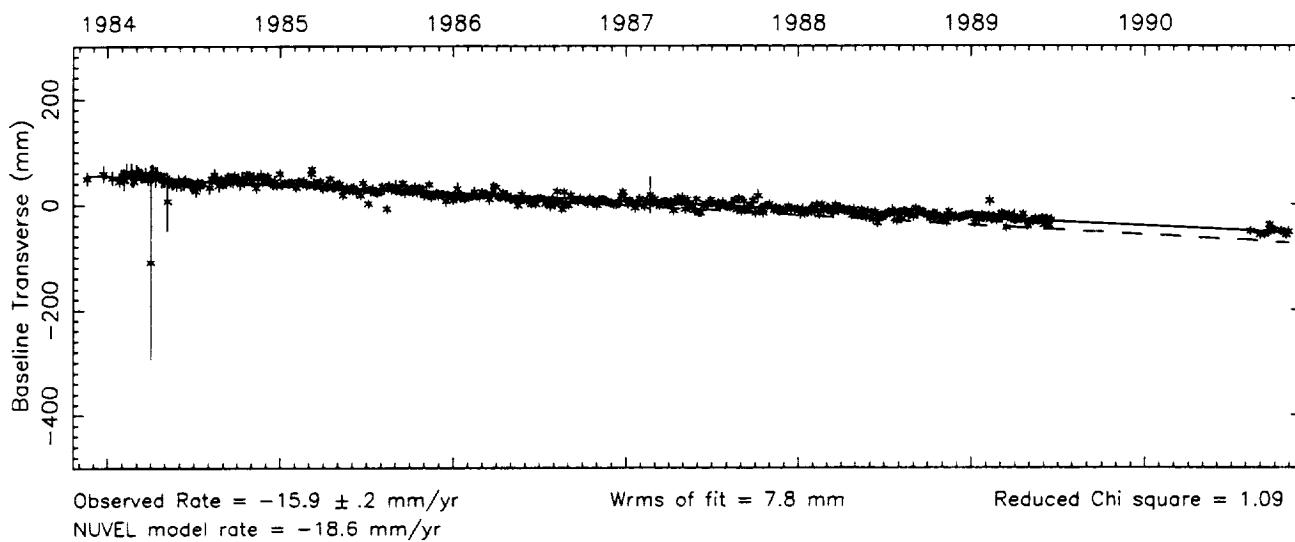
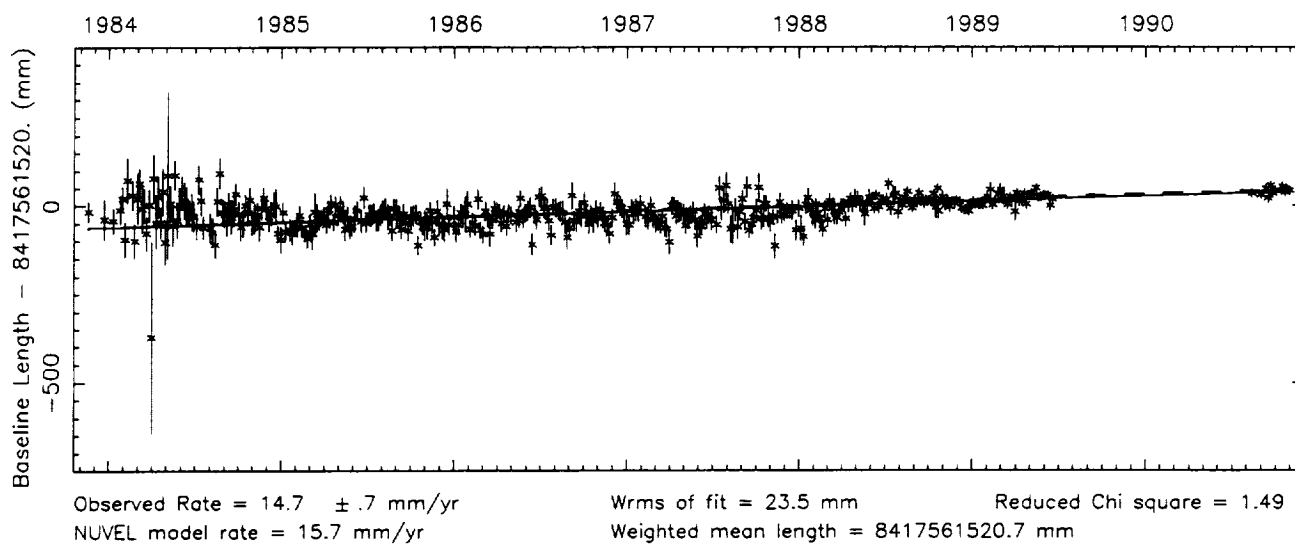
Number of sessions = 597



Vector baseline plots for HRAS 085-WETTZELL

Baseline length = 8418 kilometers

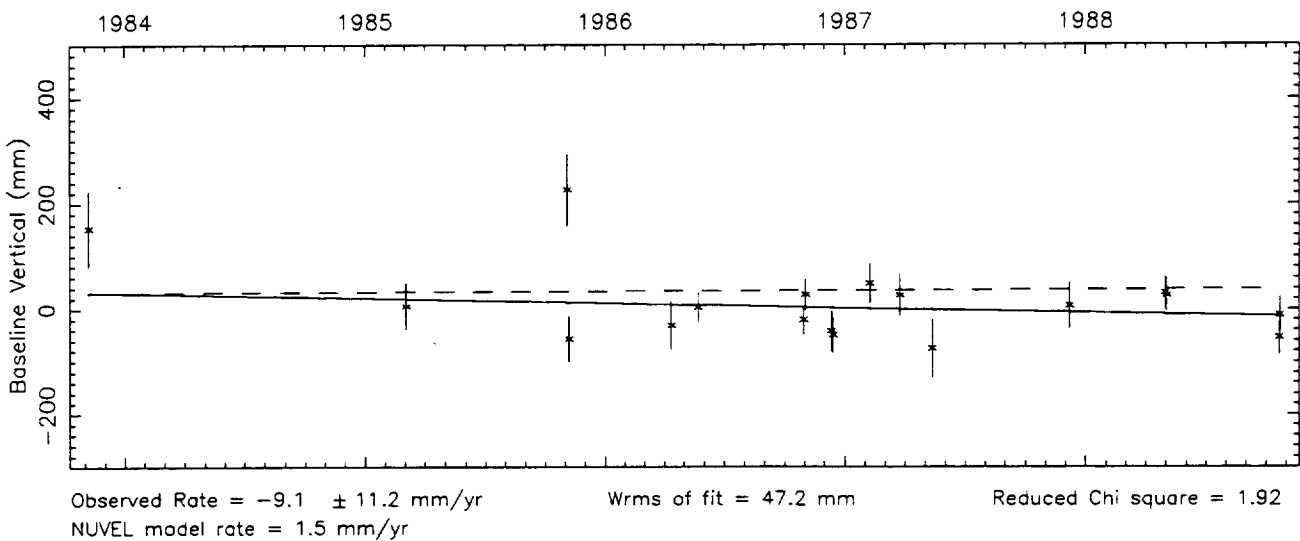
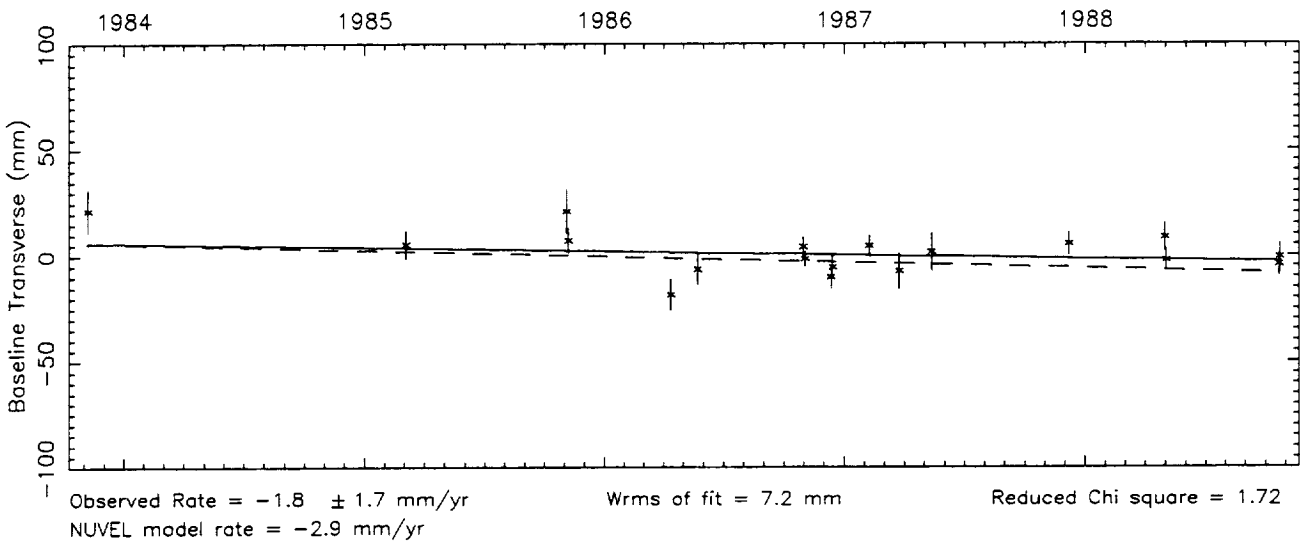
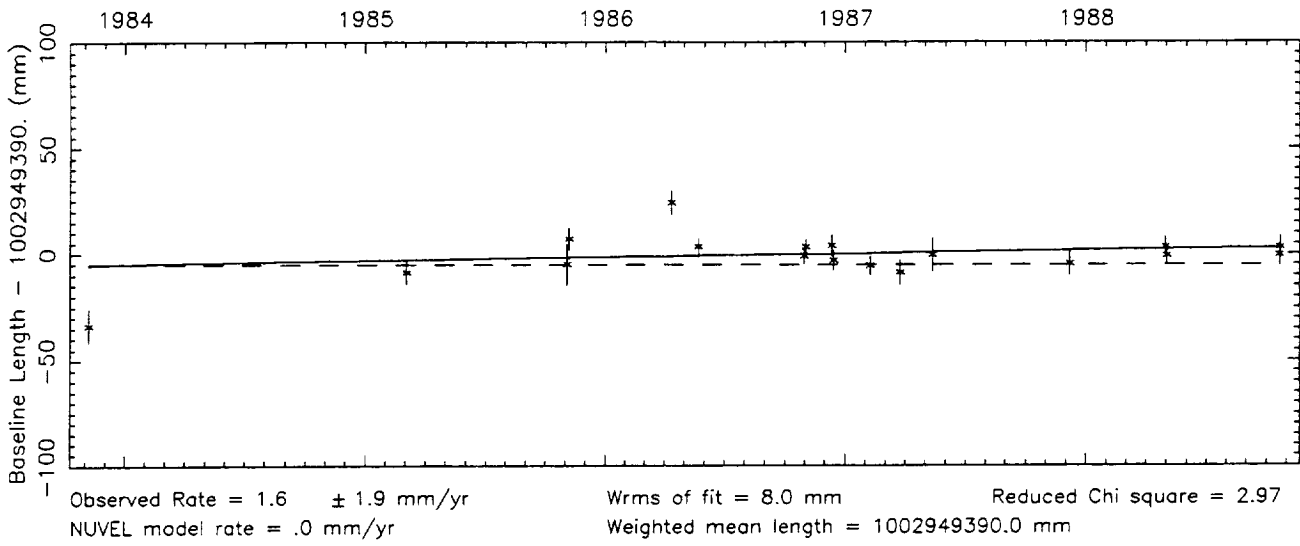
Number of sessions = 415



Vector baseline plots for HRAS 085-YUMA

Baseline length = 1003 kilometers

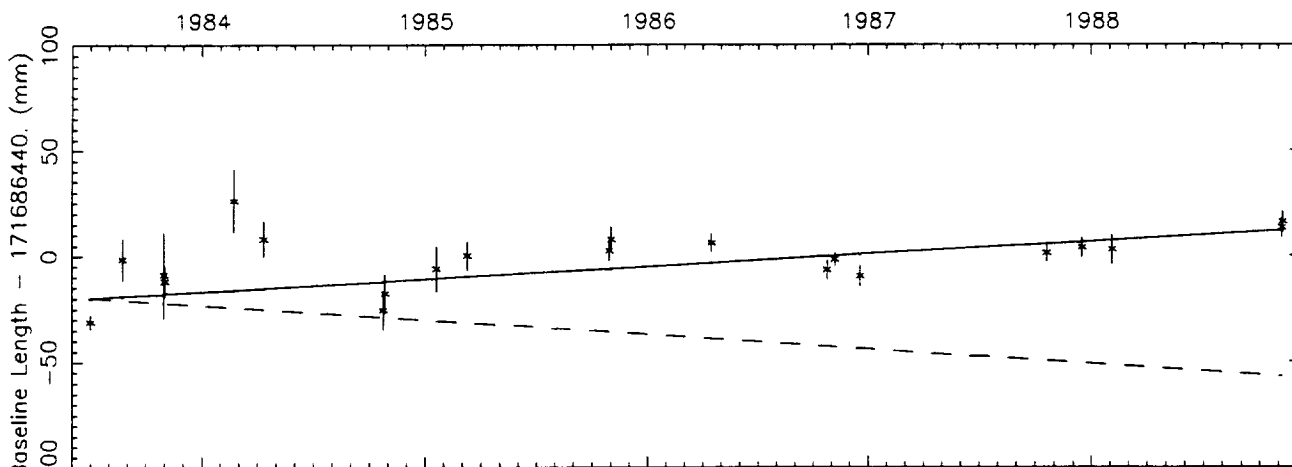
Number of sessions = 18



Vector baseline plots for JPL MV1 -MOJAVE12

Baseline length = 172 kilometers

Number of sessions = 21

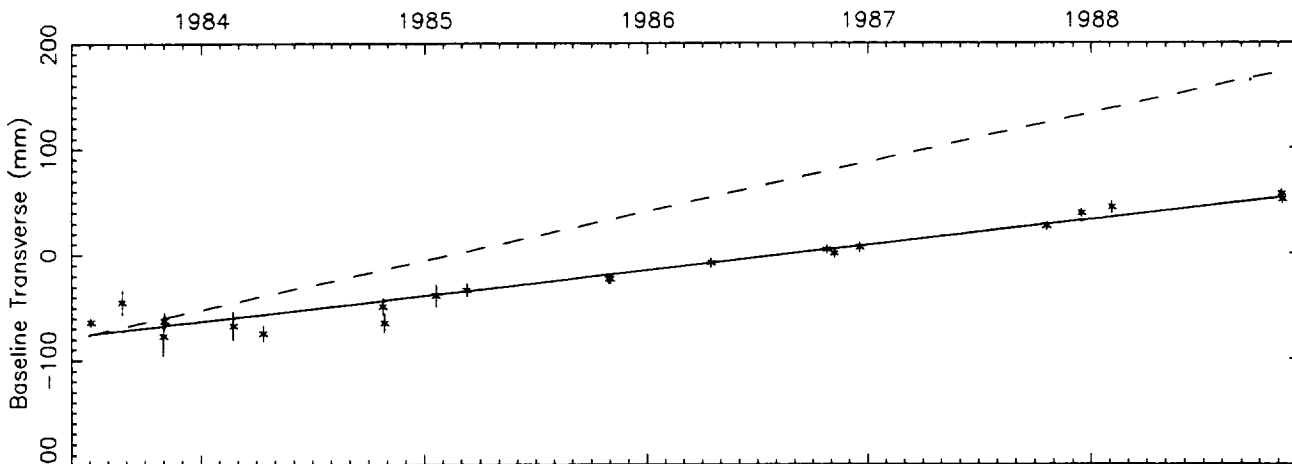


Observed Rate = 5.9 ± 1.2 mm/yr
 NUVEL model rate = -6.9 mm/yr

Wrms of fit = 9.0 mm

Reduced Chi square = 3.15

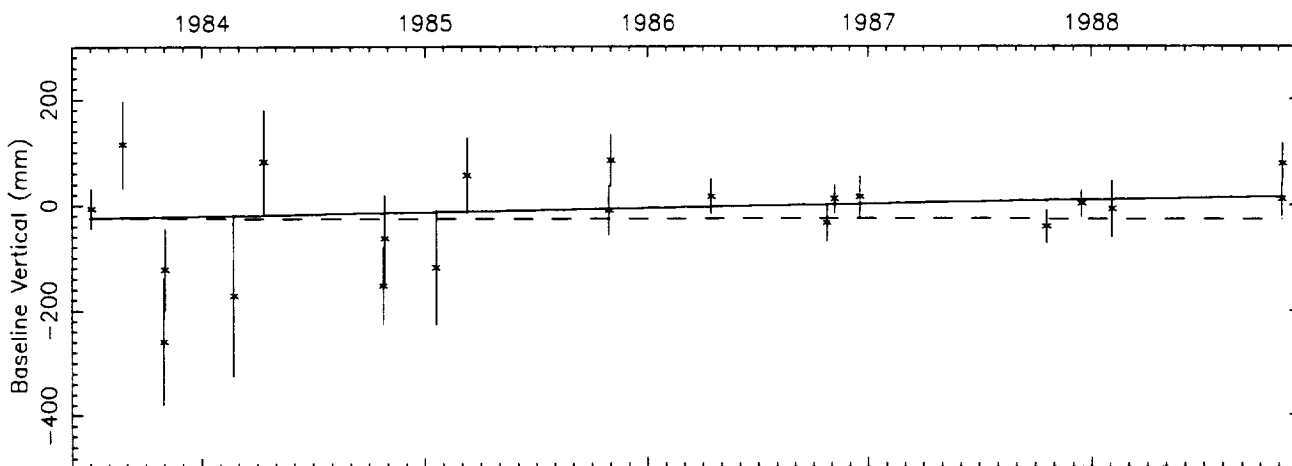
Weighted mean length = 171686437.1 mm



Observed Rate = 24.0 ± 1.0 mm/yr
 NUVEL model rate = 46.4 mm/yr

Wrms of fit = 6.5 mm

Reduced Chi square = 1.86



Observed Rate = 7.5 ± 7.3 mm/yr
 NUVEL model rate = -0.4 mm/yr

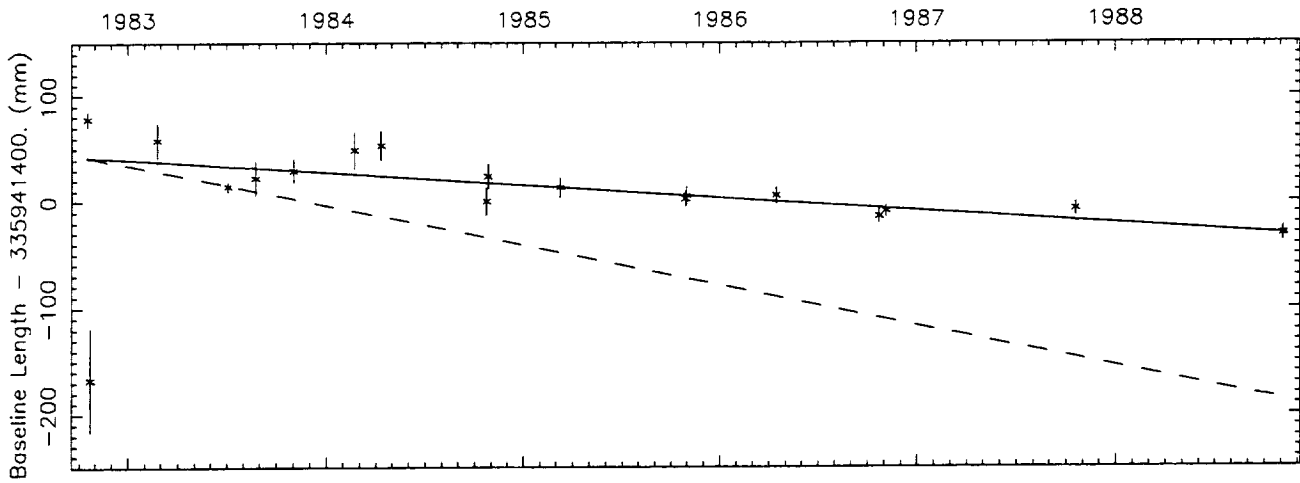
Wrms of fit = 49.2 mm

Reduced Chi square = 1.39

Vector baseline plots for JPL MV1 -OVRO 130

Baseline length = 336 kilometers

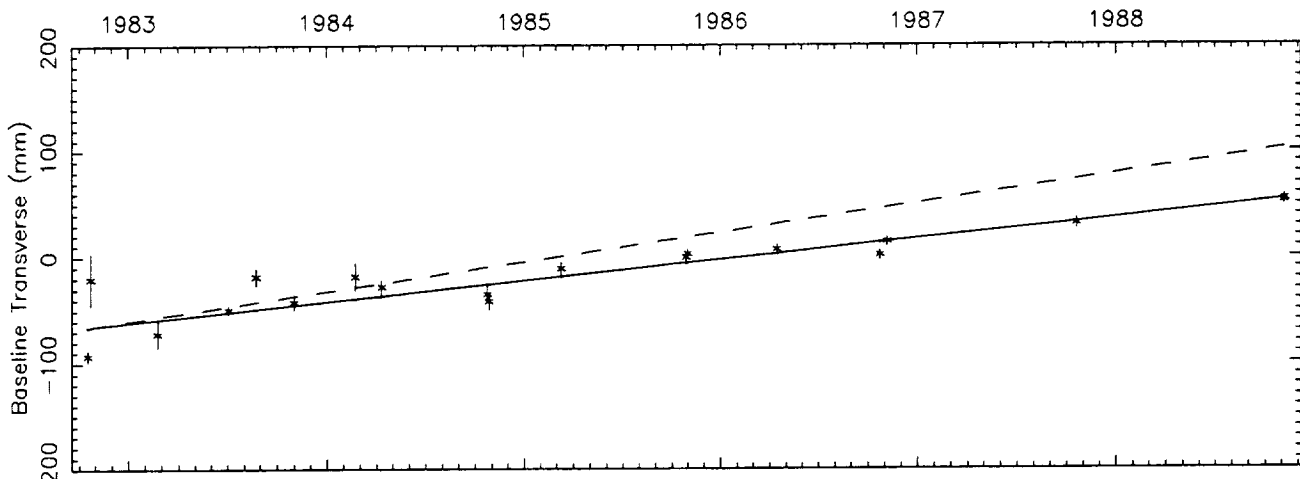
Number of sessions = 19



Observed Rate = -12.0 ± 2.0 mm/yr
 NUVEL model rate = -37.8 mm/yr

Wrms of fit = 16.2 mm
 Weighted mean length = 335941404.4 mm

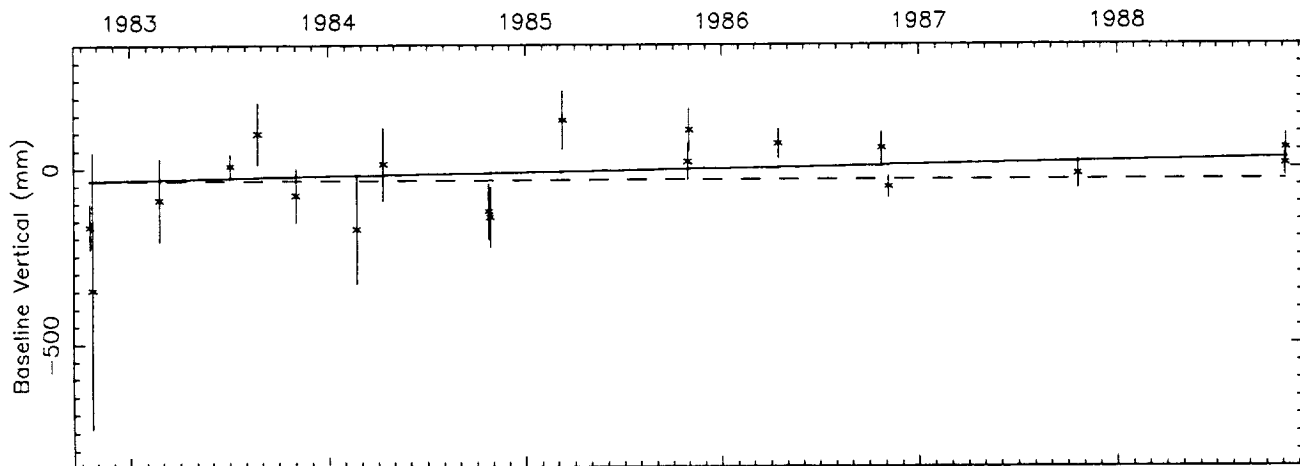
Reduced Chi square = 4.67



Observed Rate = 19.6 ± 1.3 mm/yr
 NUVEL model rate = 27.7 mm/yr

Wrms of fit = 9.8 mm

Reduced Chi square = 4.32



Observed Rate = 10.1 ± 8.4 mm/yr
 NUVEL model rate = $.4$ mm/yr

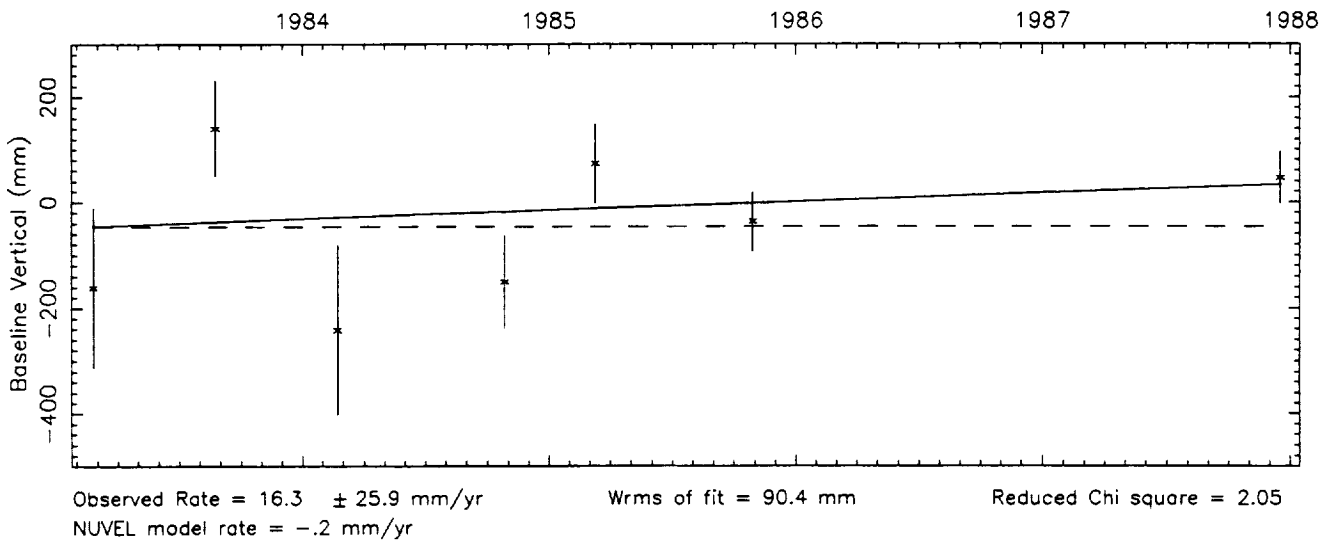
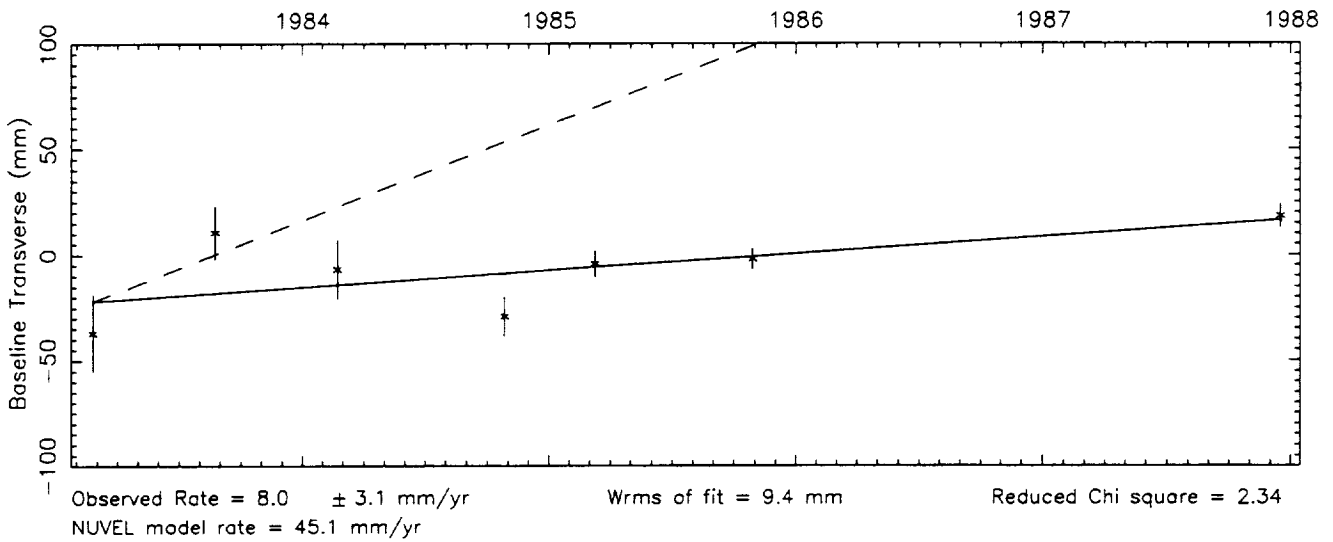
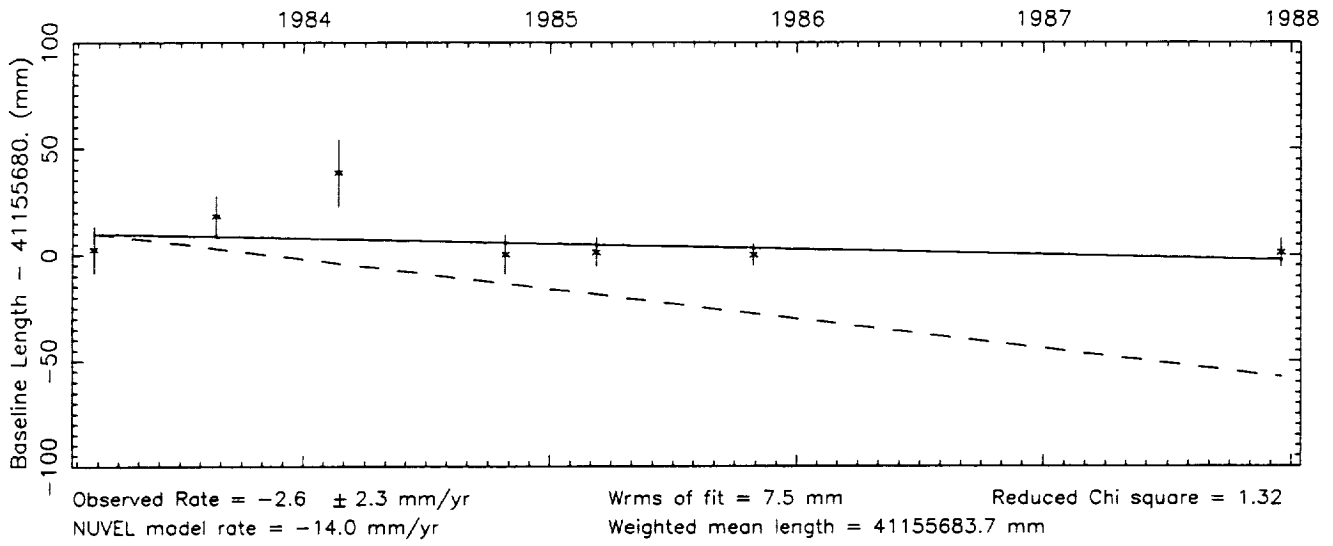
Wrms of fit = 66.2 mm

Reduced Chi square = 1.72

Vector baseline plots for JPL MV1 -PBLOSSOM

Baseline length = 41 kilometers

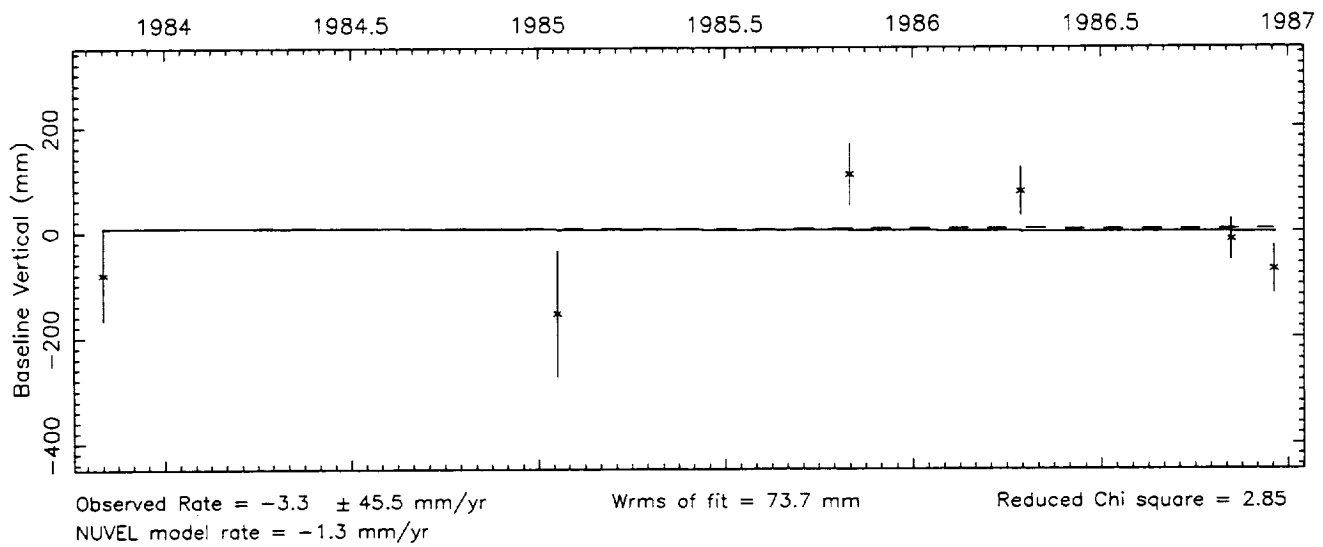
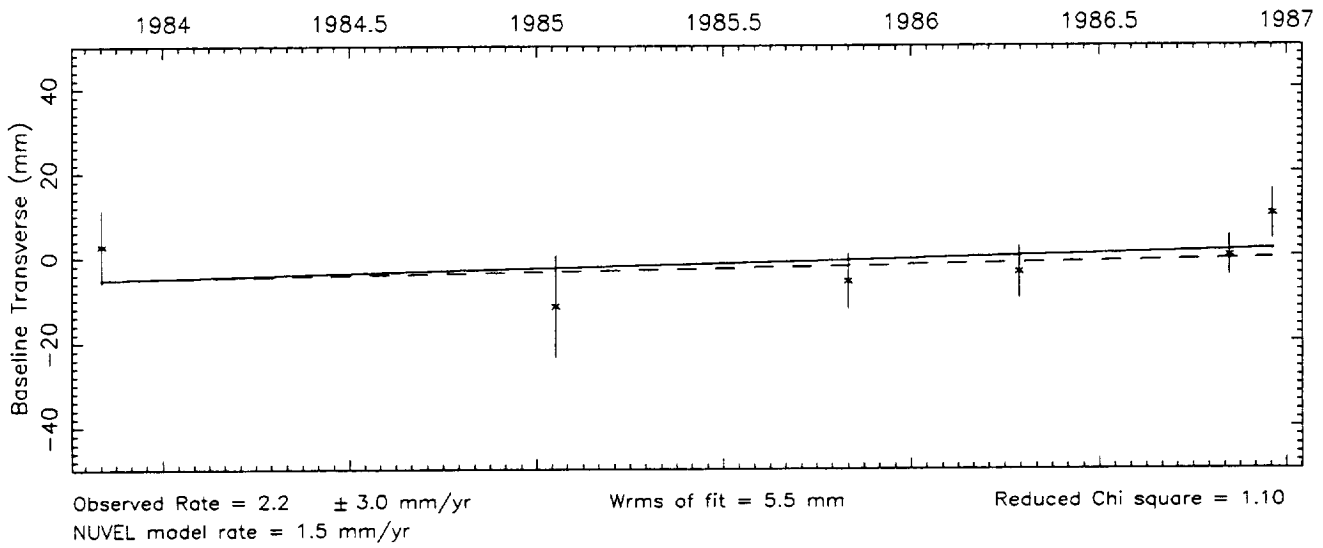
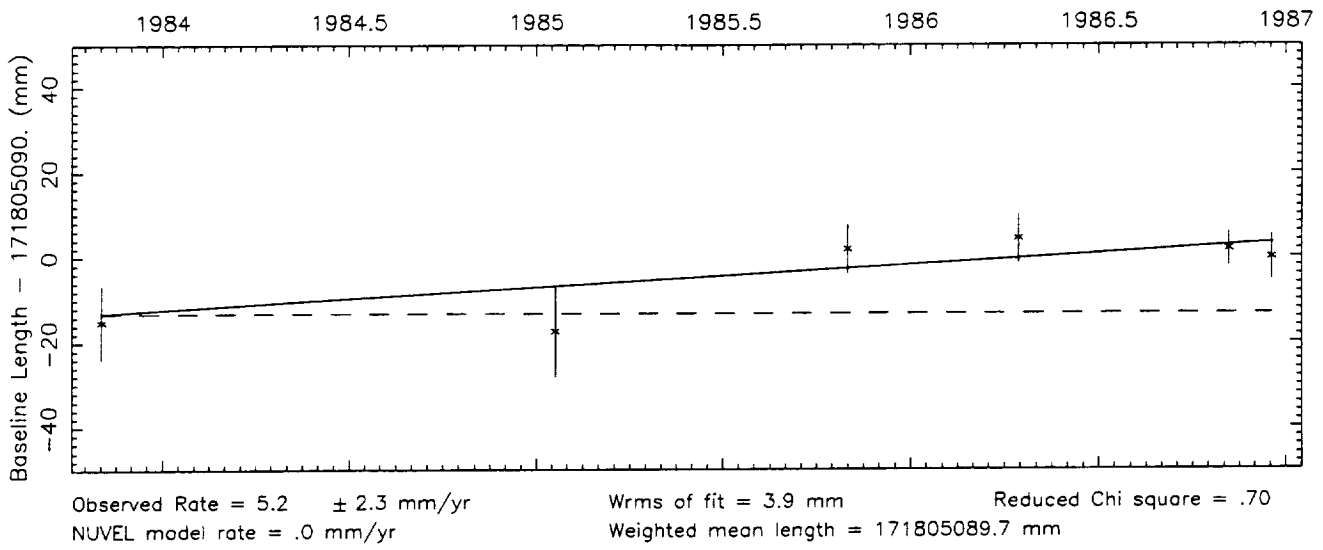
Number of sessions = 7



Vector baseline plots for JPL MV1 -PINFLATS

Baseline length = 172 kilometers

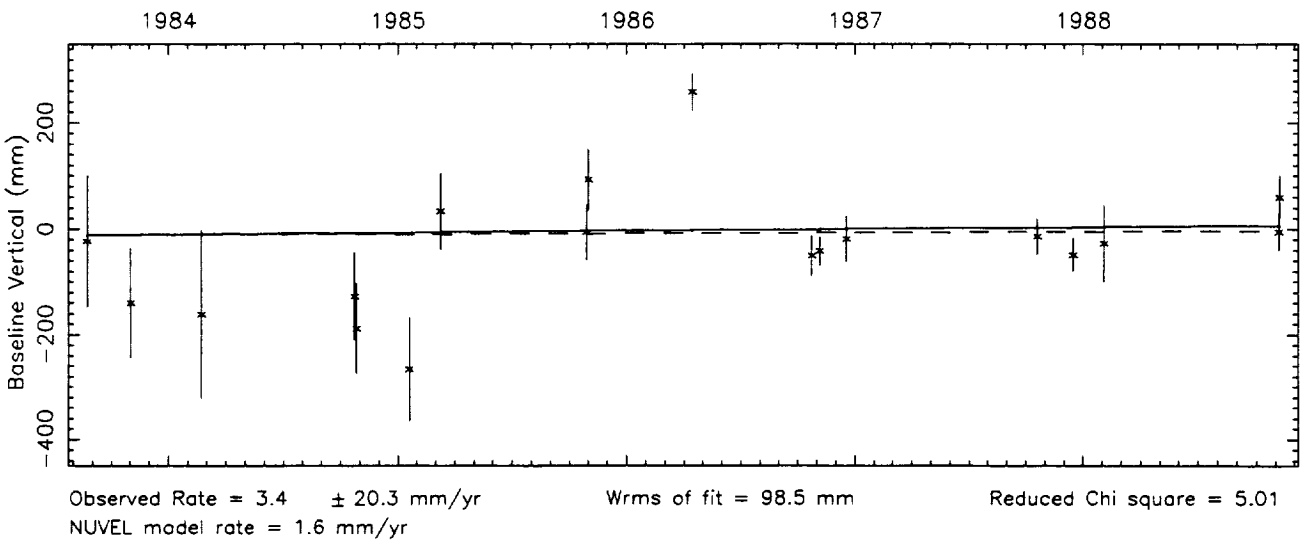
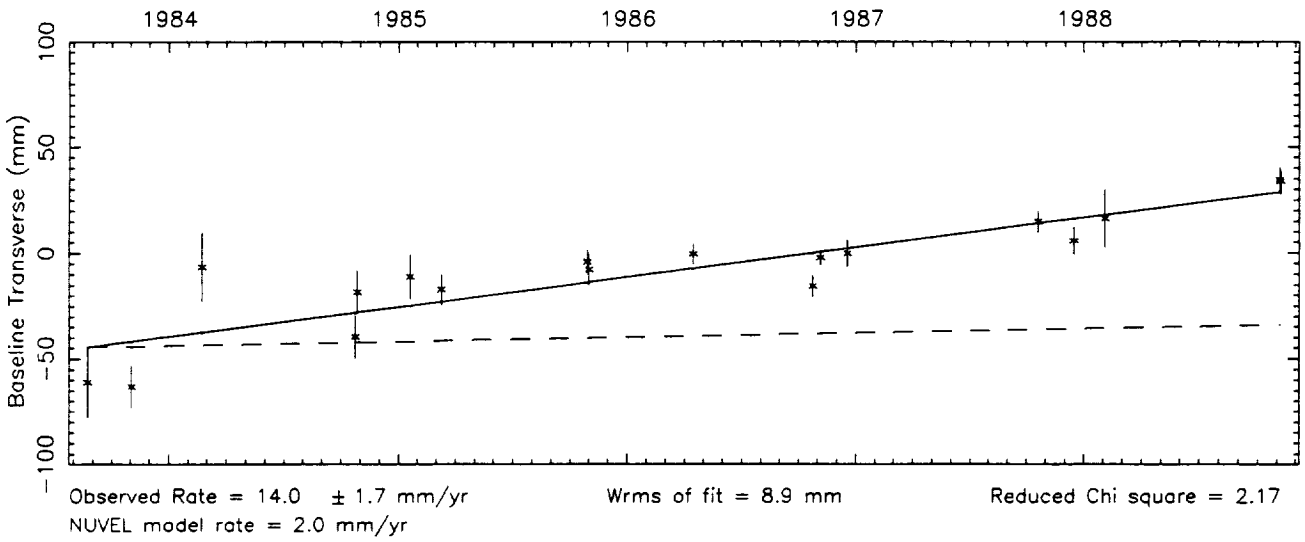
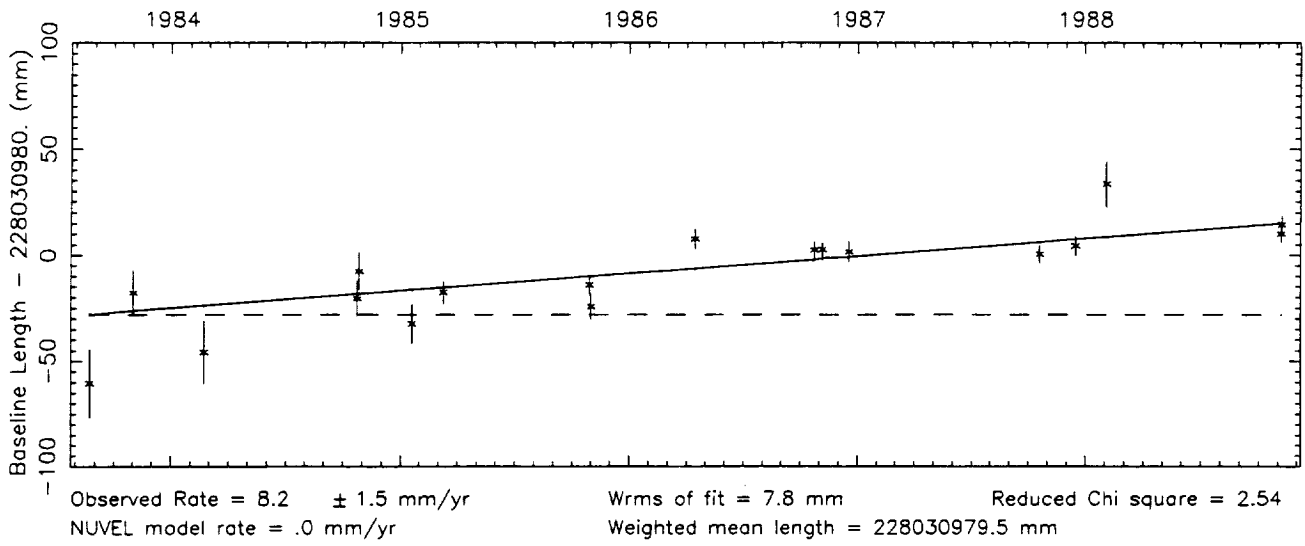
Number of sessions = 6



Vector baseline plots for JPL MV1 -VNDNBERG

Baseline length = 228 kilometers

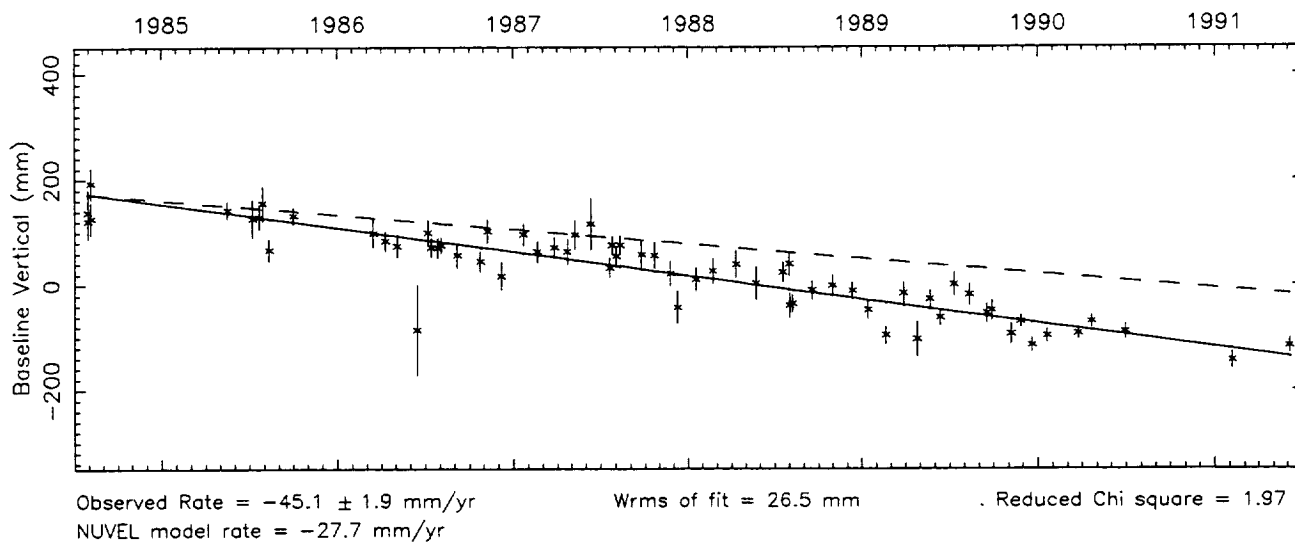
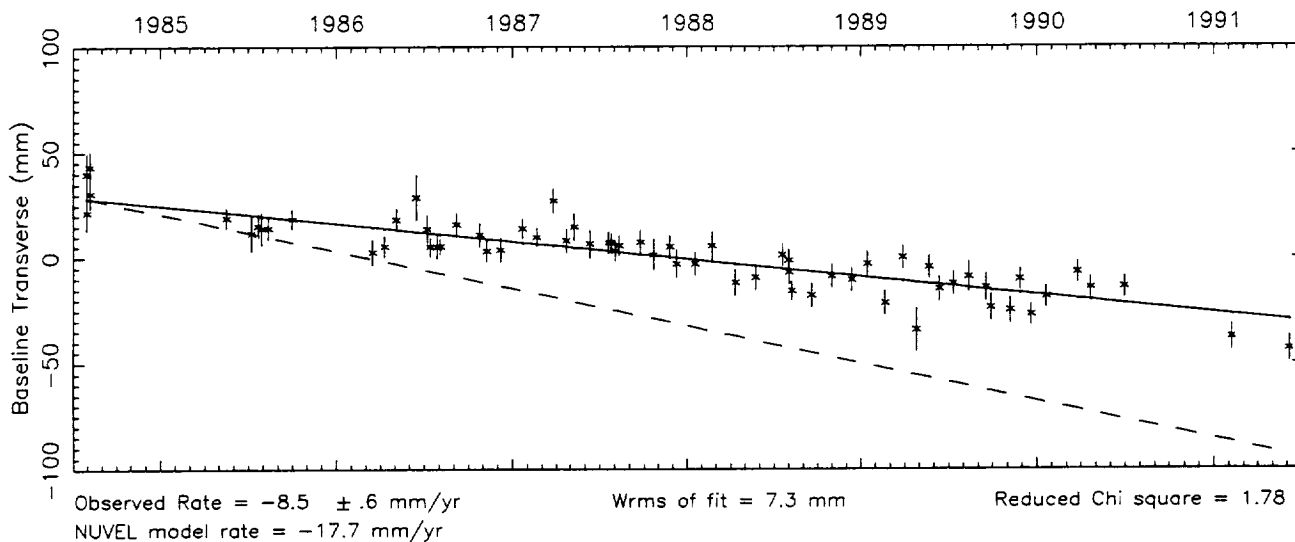
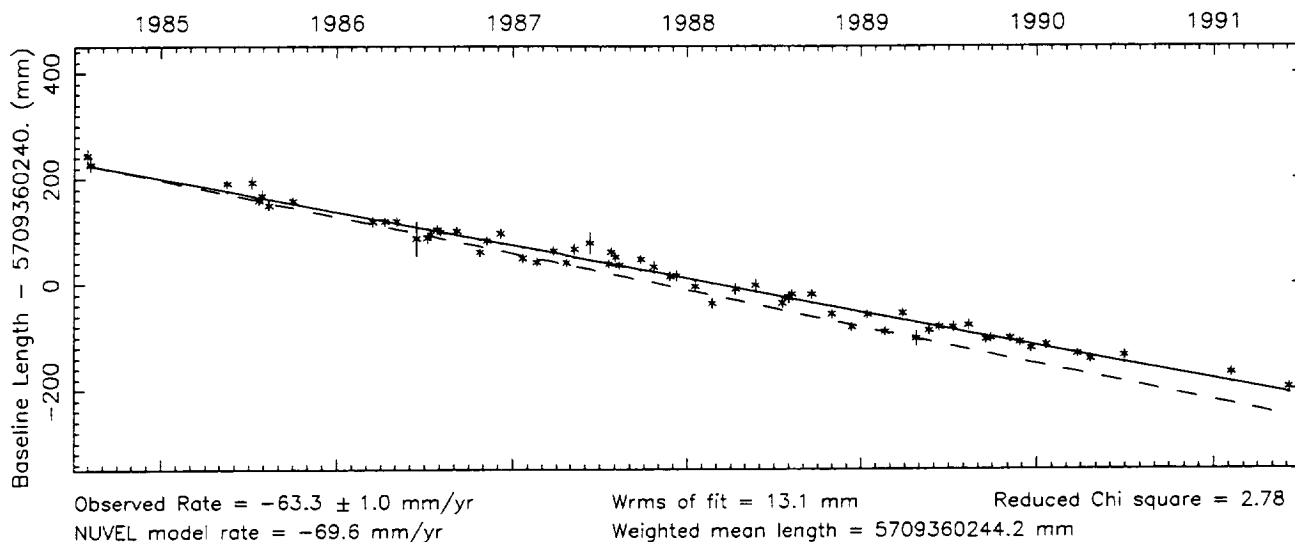
Number of sessions = 18



Vector baseline plots for KASHIMA -KAUAI

Baseline length = 5709 kilometers

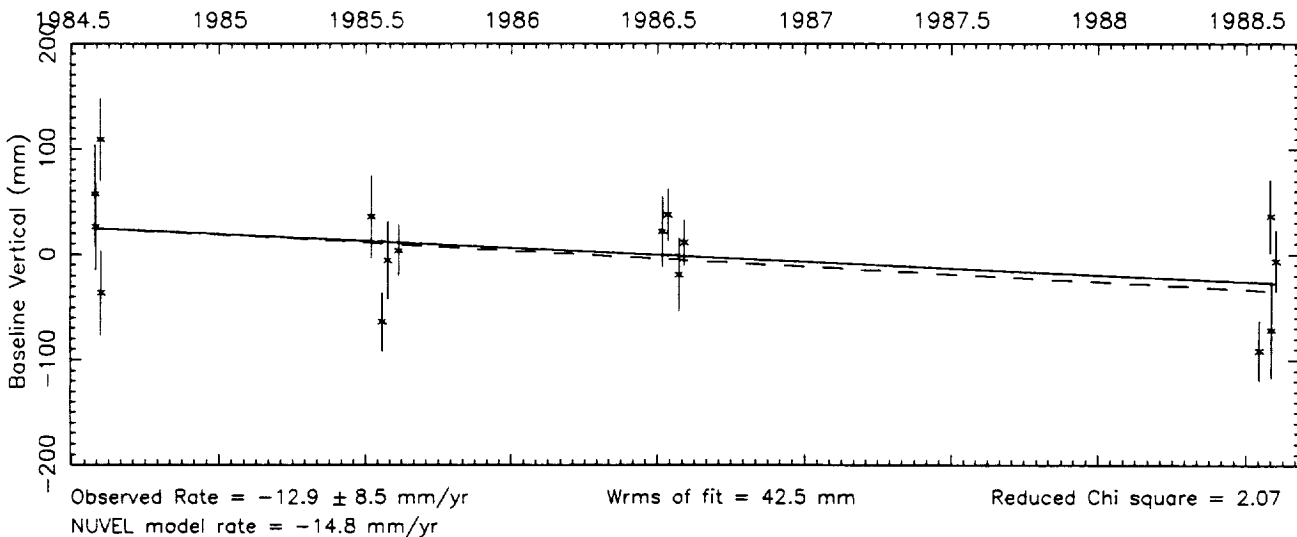
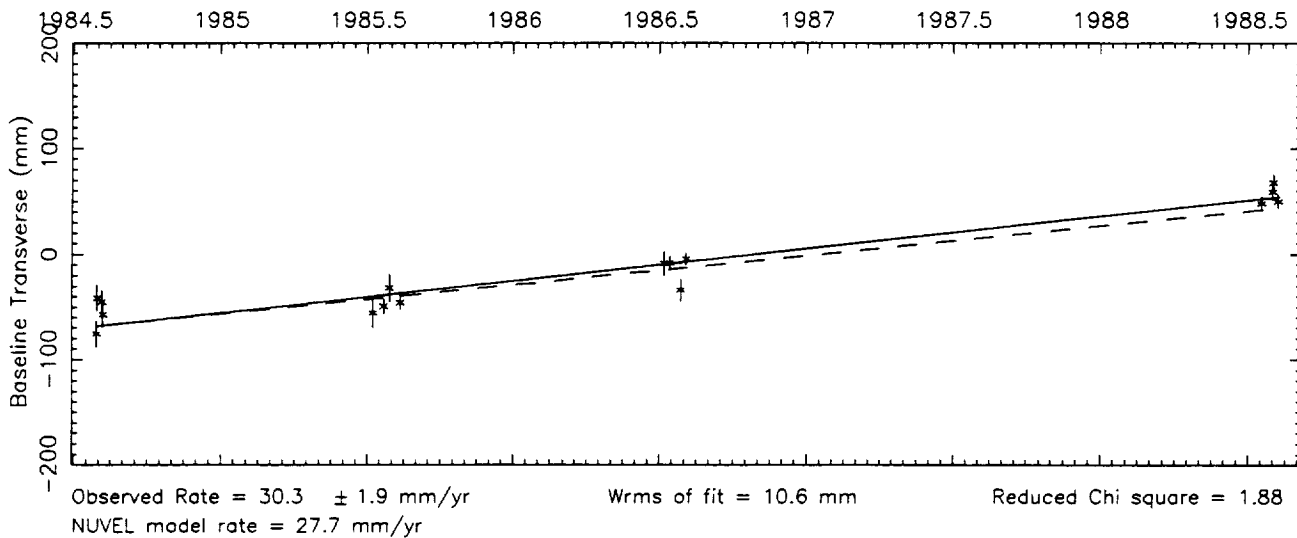
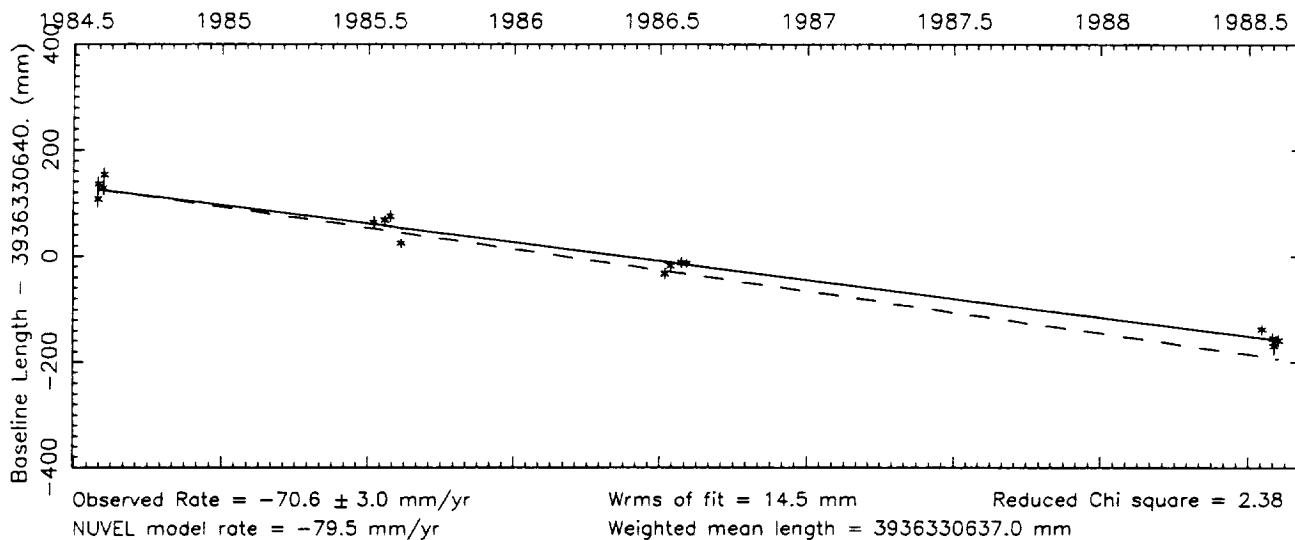
Number of sessions = 66



Vector baseline plots for KASHIMA -KWAJAL26

Baseline length = 3936 kilometers

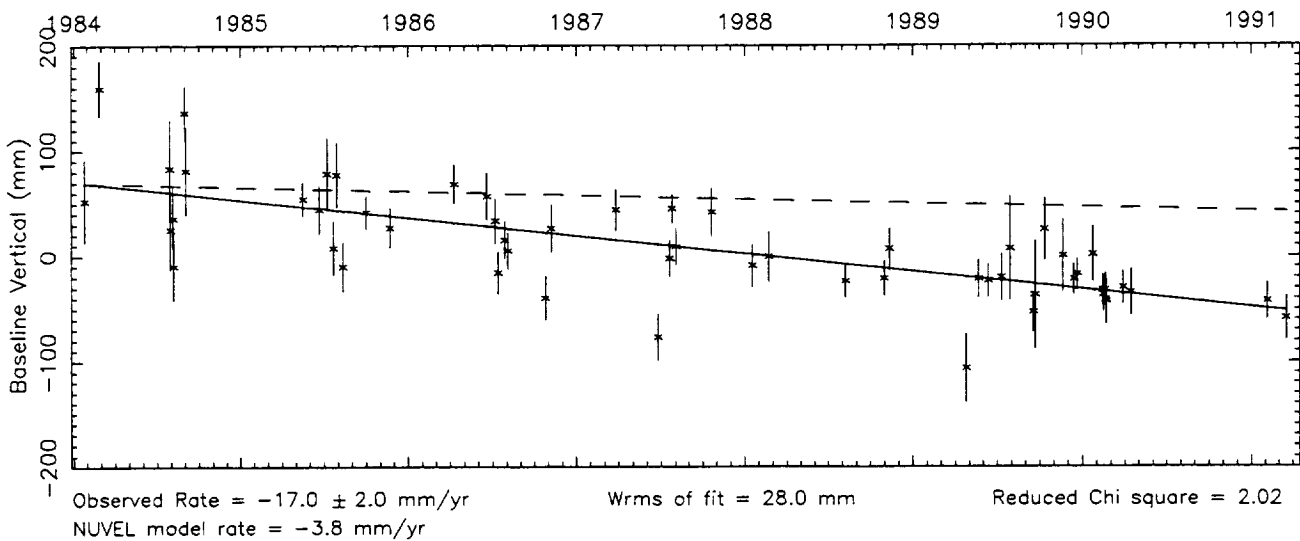
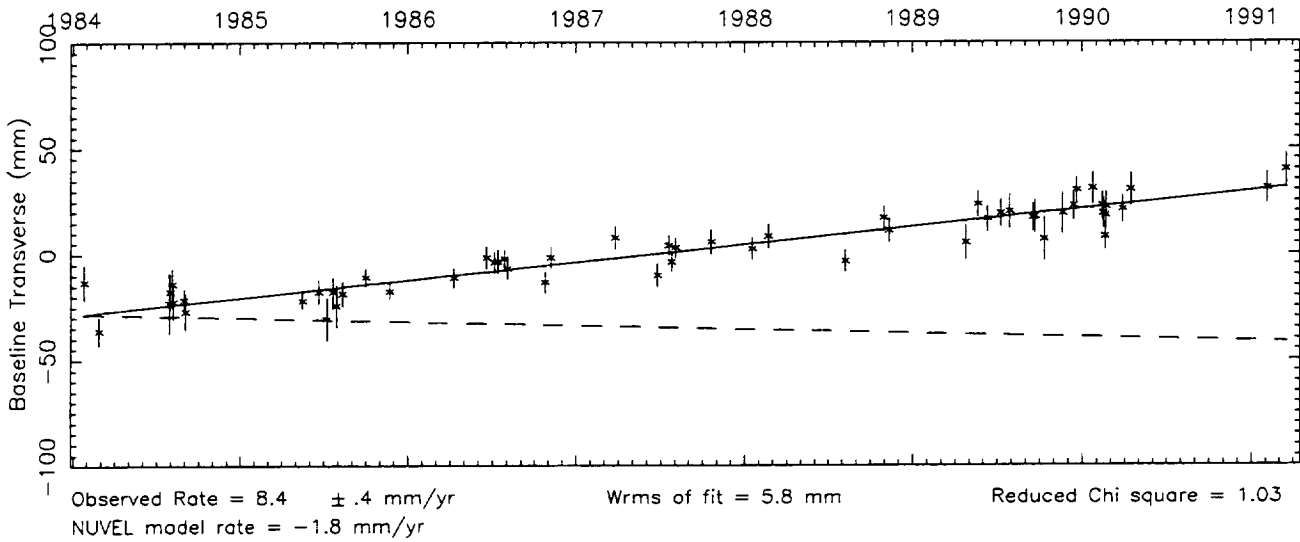
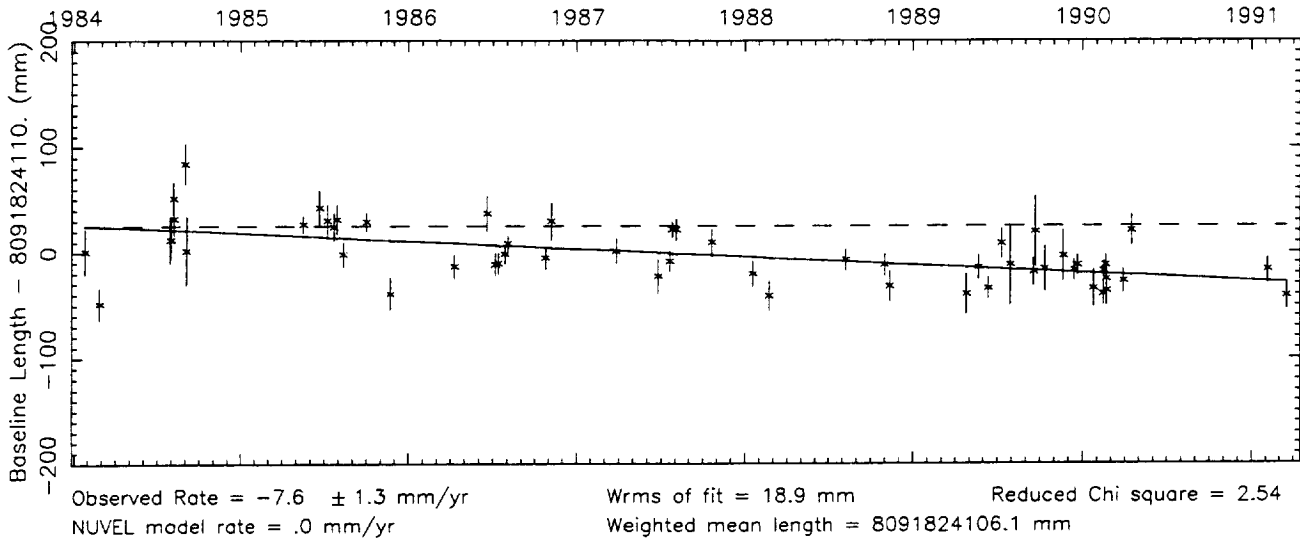
Number of sessions = 16



Vector baseline plots for KASHIMA - MOJAVE12

Baseline length = 8092 kilometers

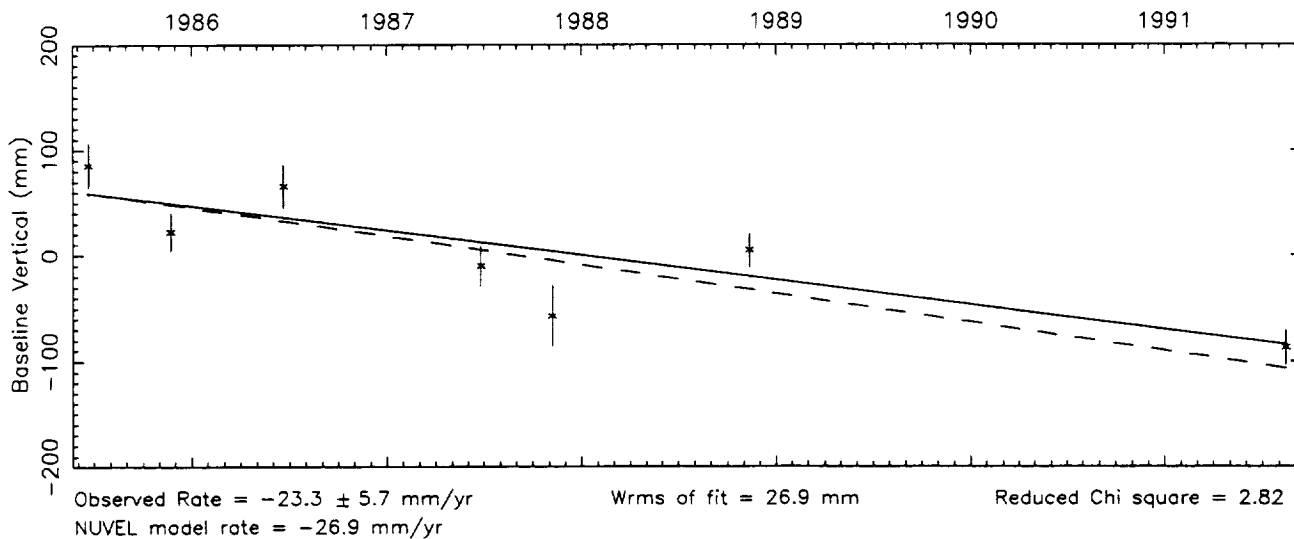
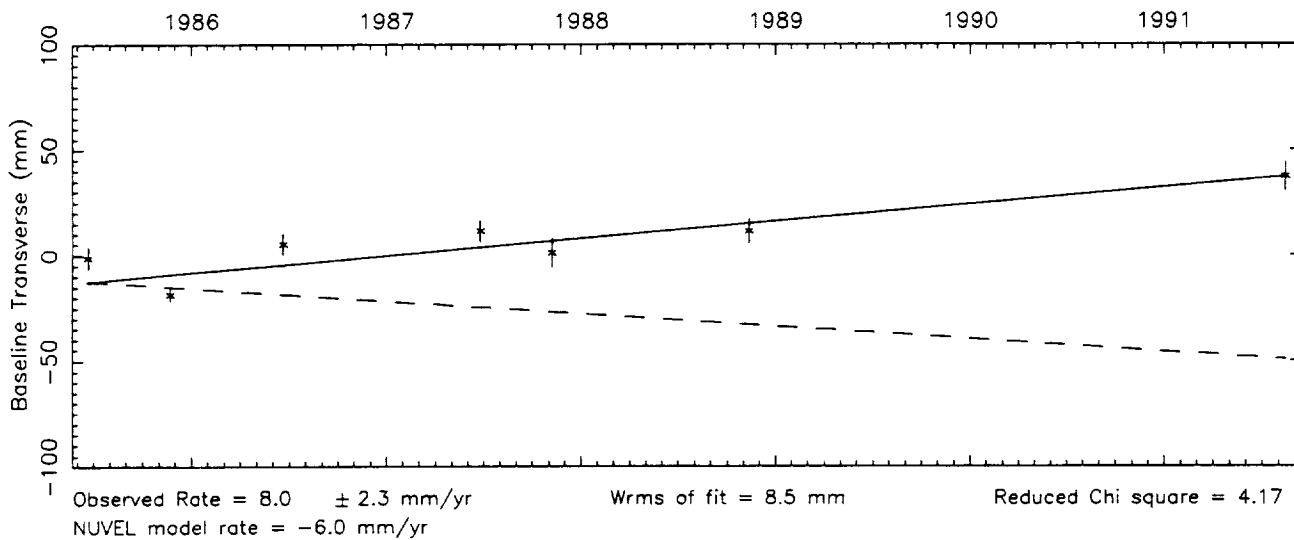
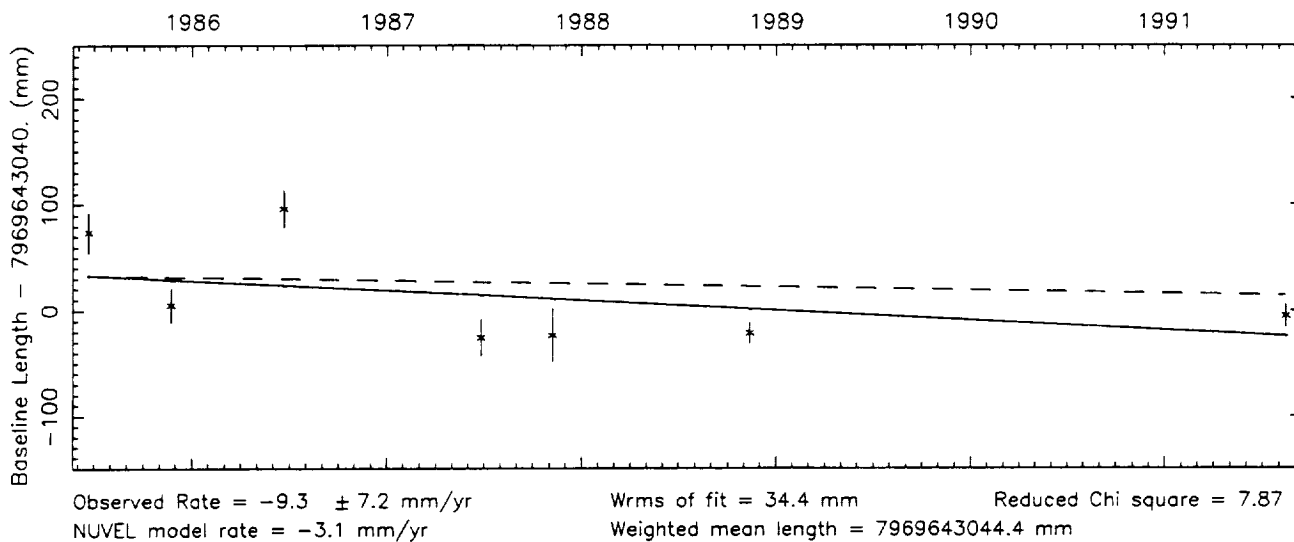
Number of sessions = 56



Vector baseline plots for KASHIMA - ONSALA60

Baseline length = 7970 kilometers

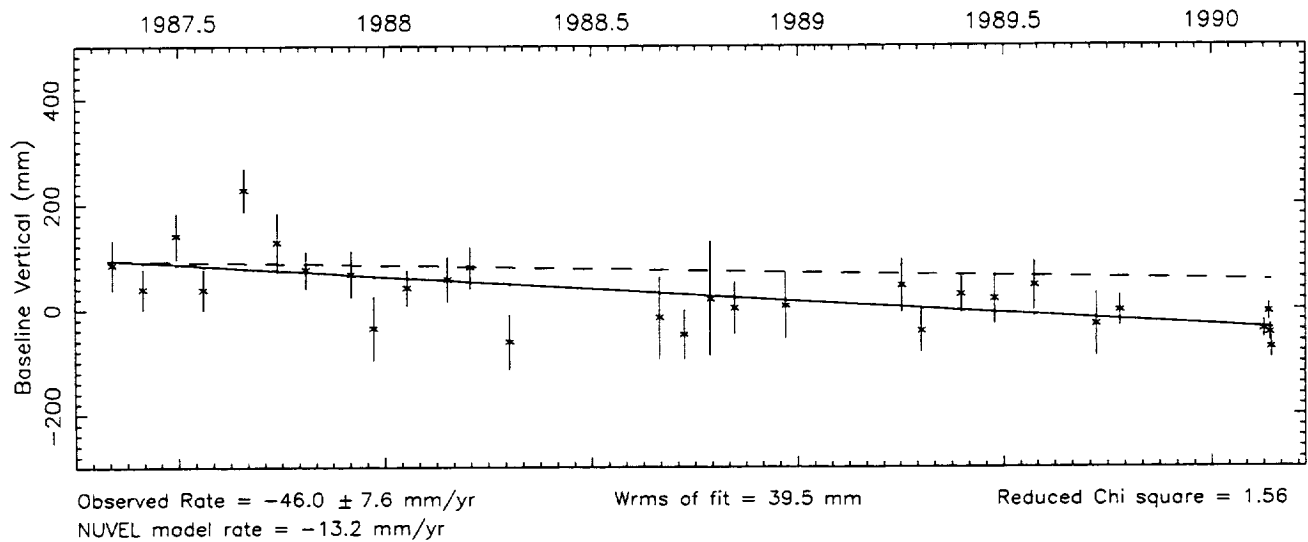
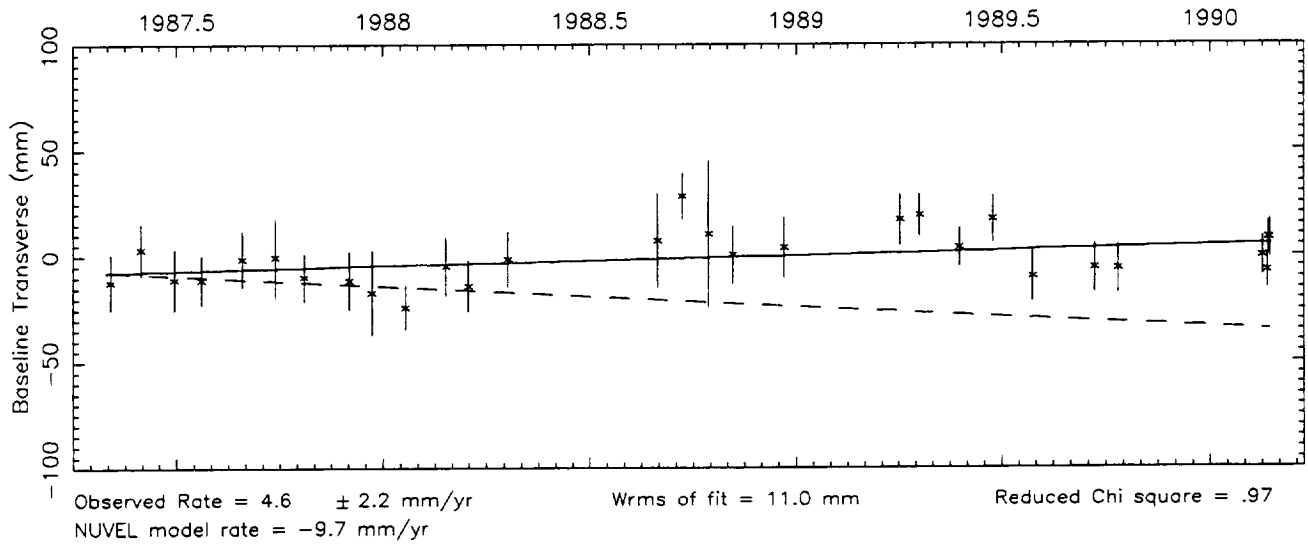
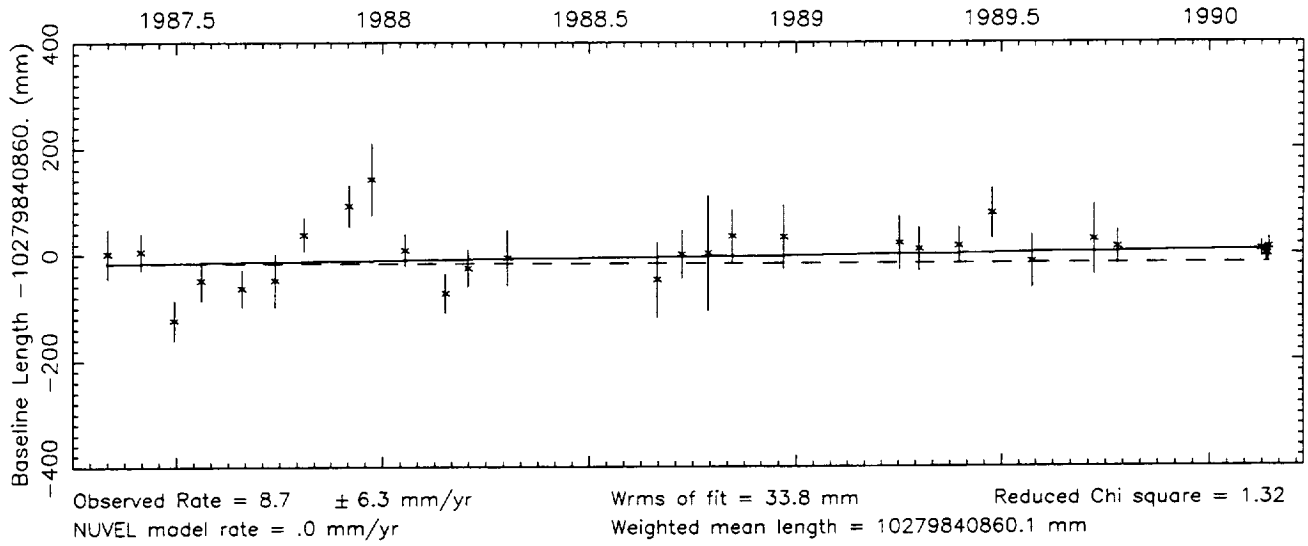
Number of sessions = 7



Vector baseline plots for KASHIMA -RICHMOND

Baseline length = 10280 kilometers

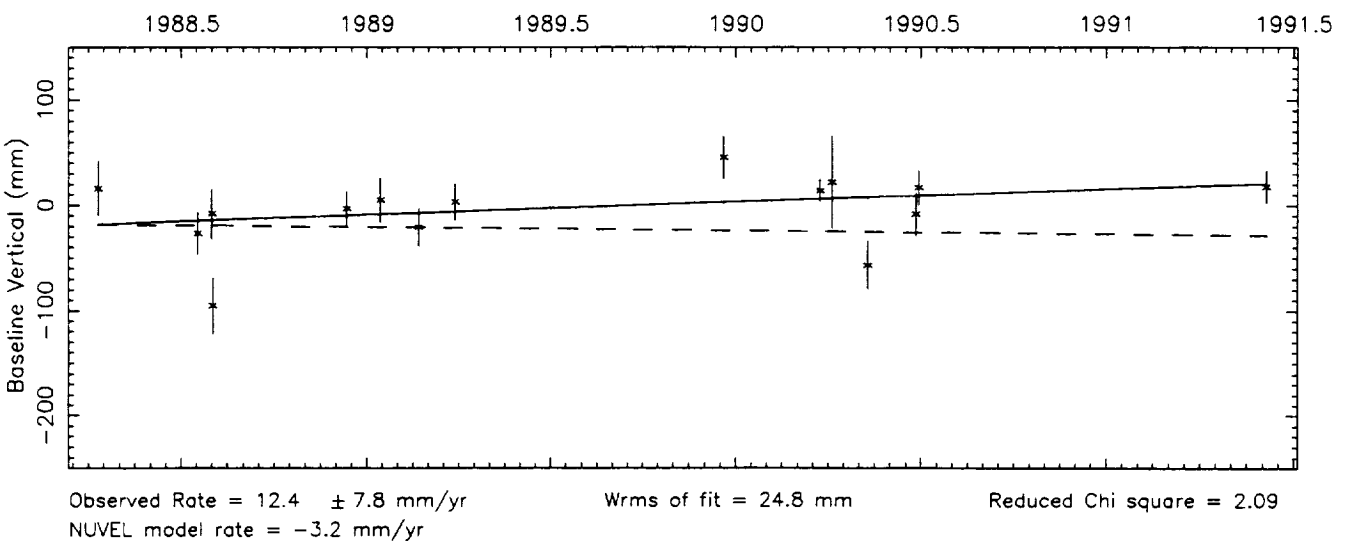
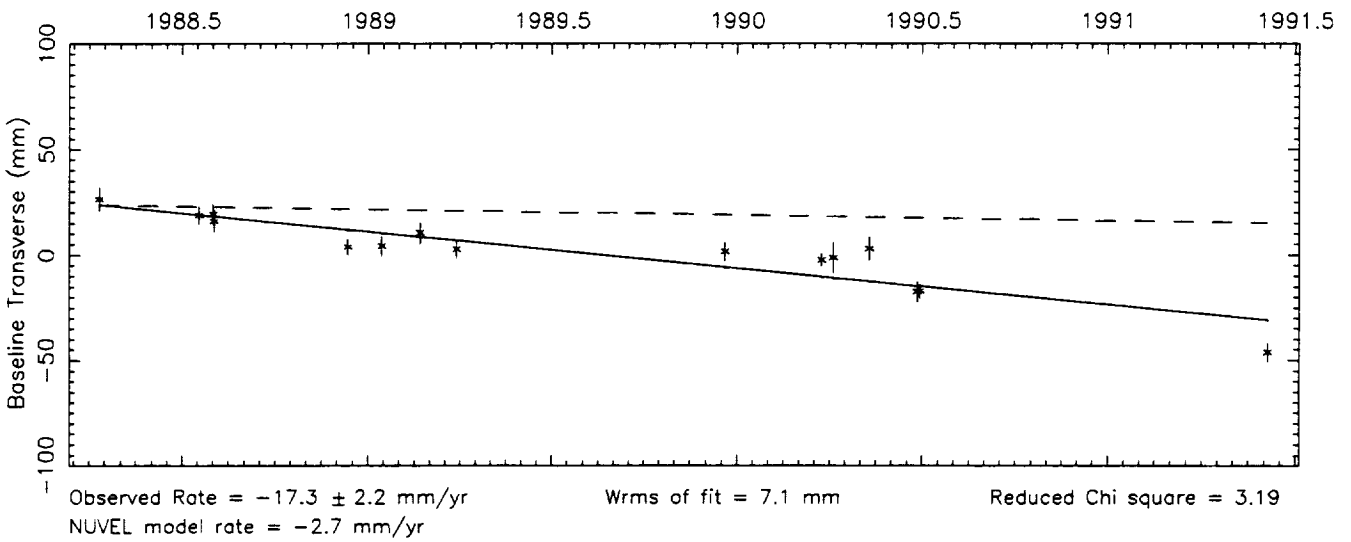
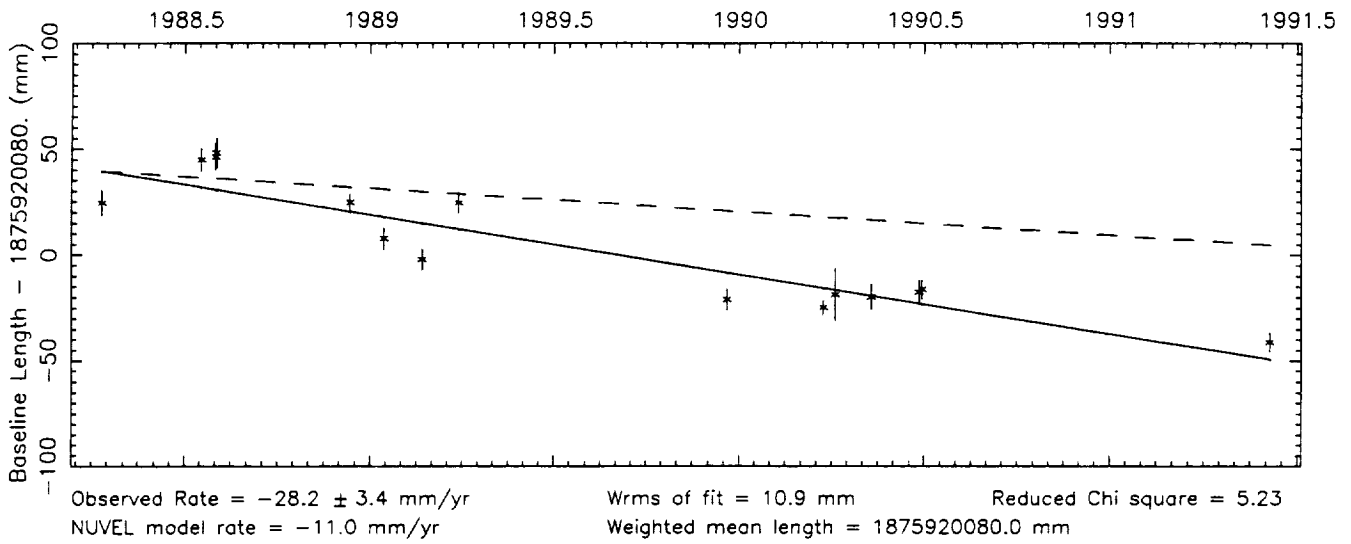
Number of sessions = 29



Vector baseline plots for KASHIMA –SESHAN25

Baseline length = 1876 kilometers

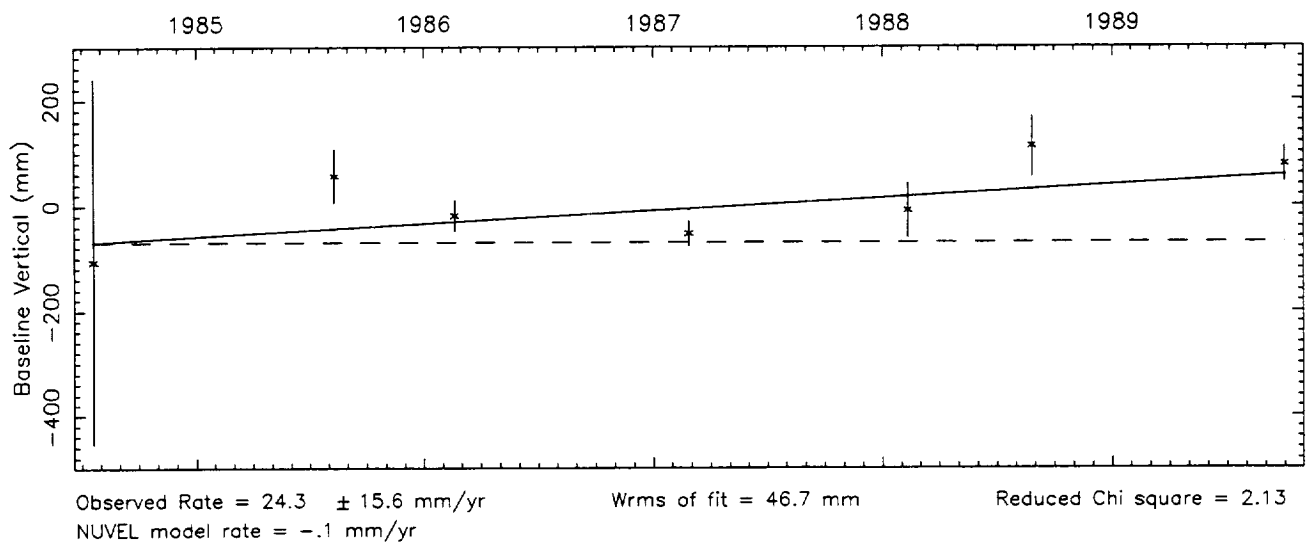
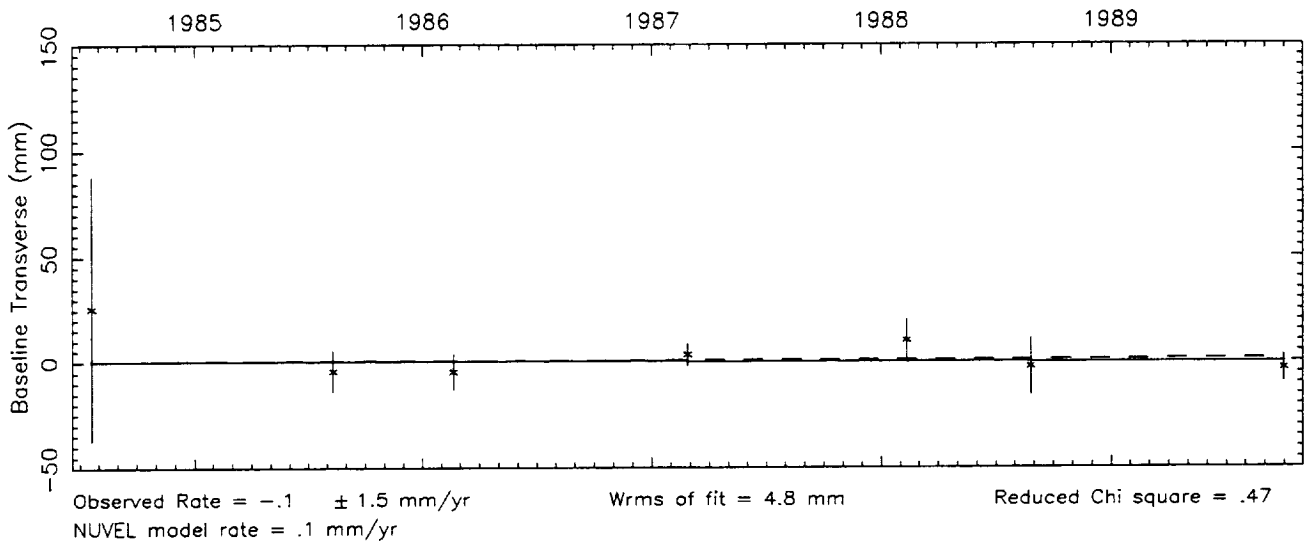
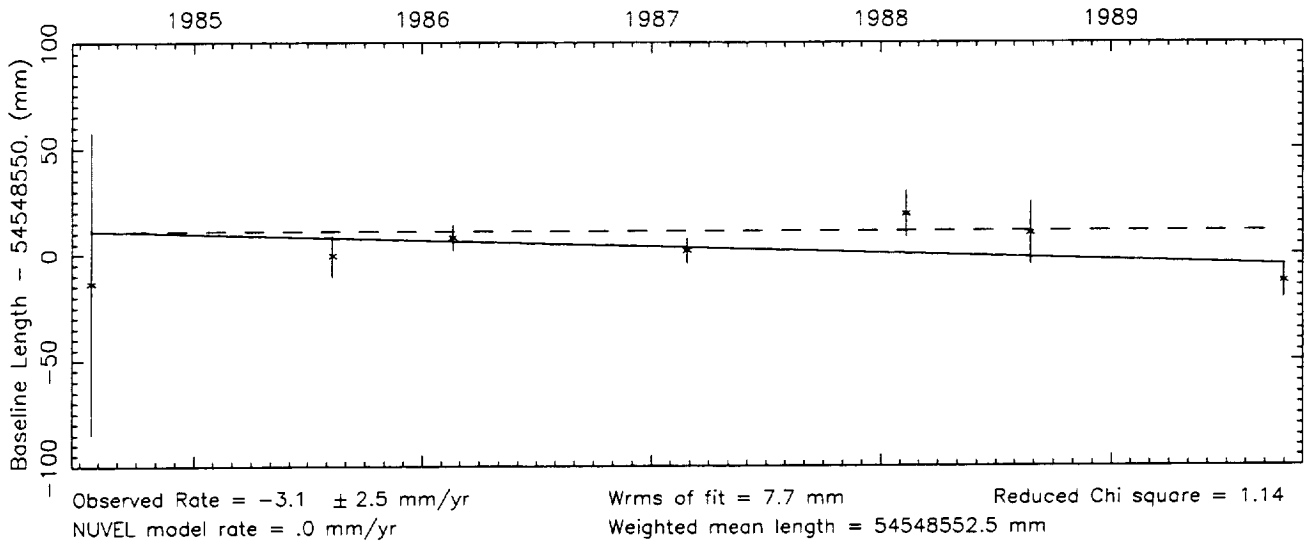
Number of sessions = 15



Vector baseline plots for KASHIMA - TSUKUBA

Baseline length = 55 kilometers

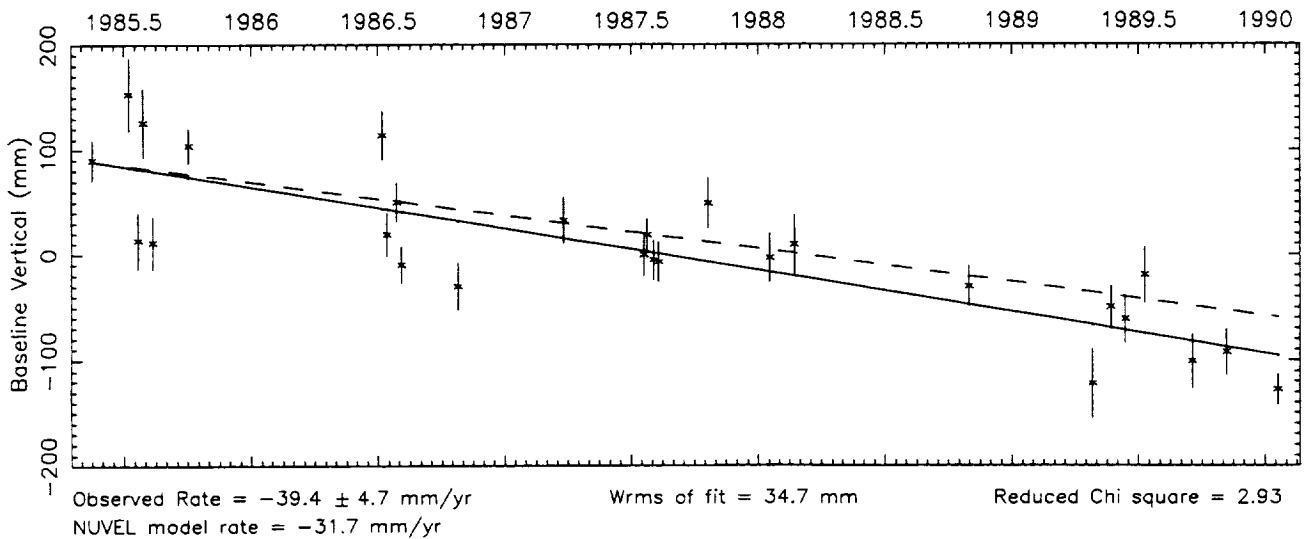
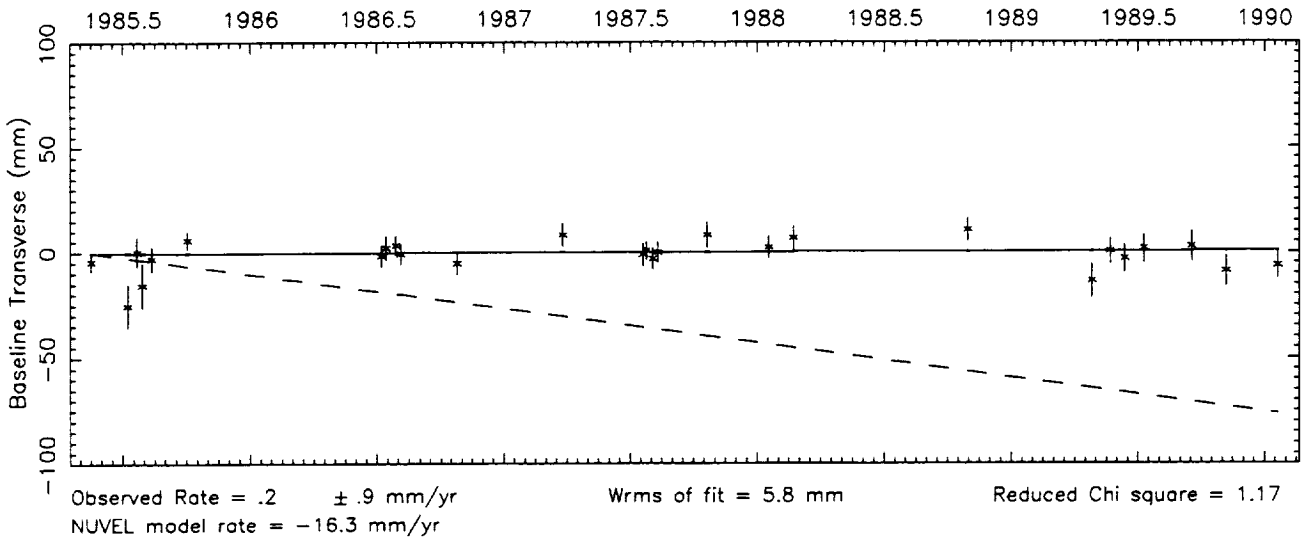
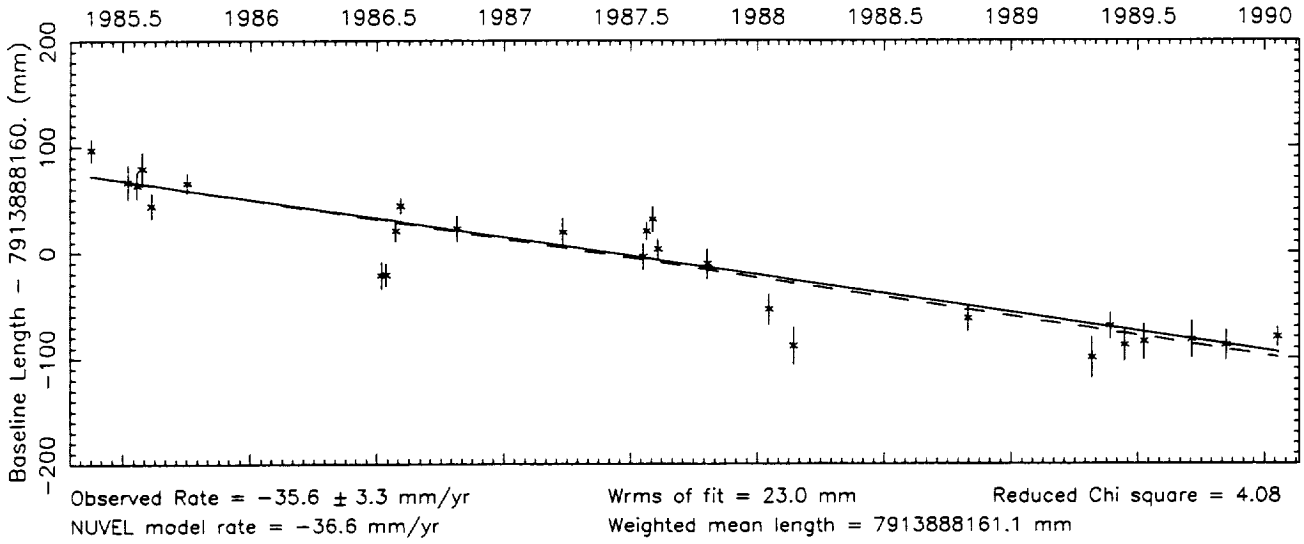
Number of sessions = 7



Vector baseline plots for KASHIMA -VNDNBERG

Baseline length = 7914 kilometers

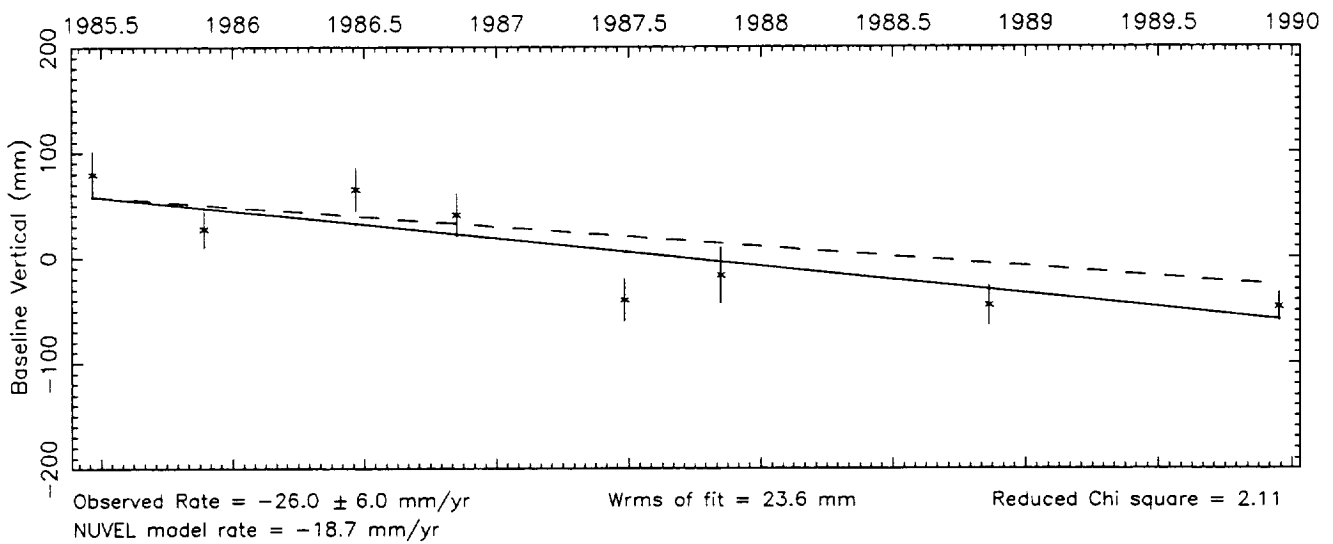
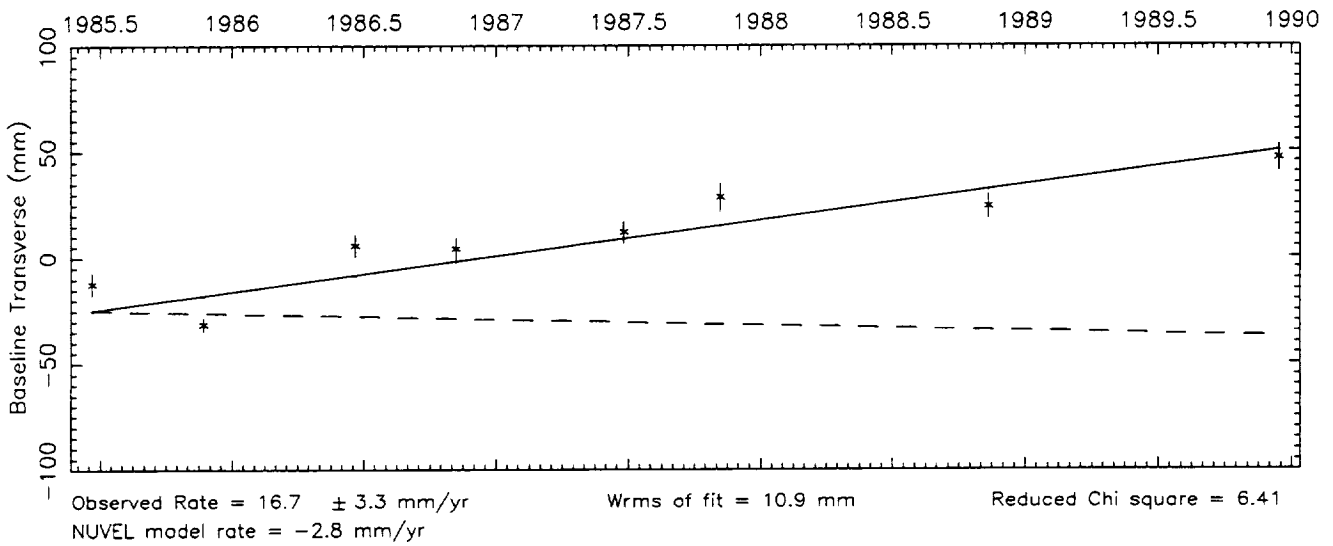
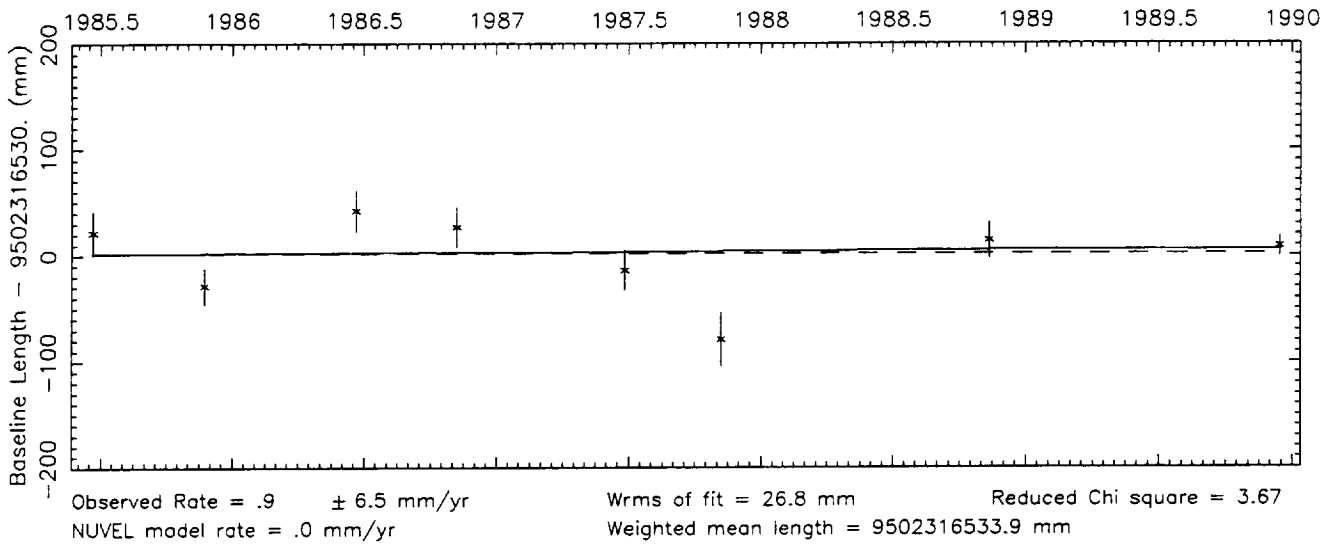
Number of sessions = 27



Vector baseline plots for KASHIMA -WESTFORD

Baseline length = 9502 kilometers

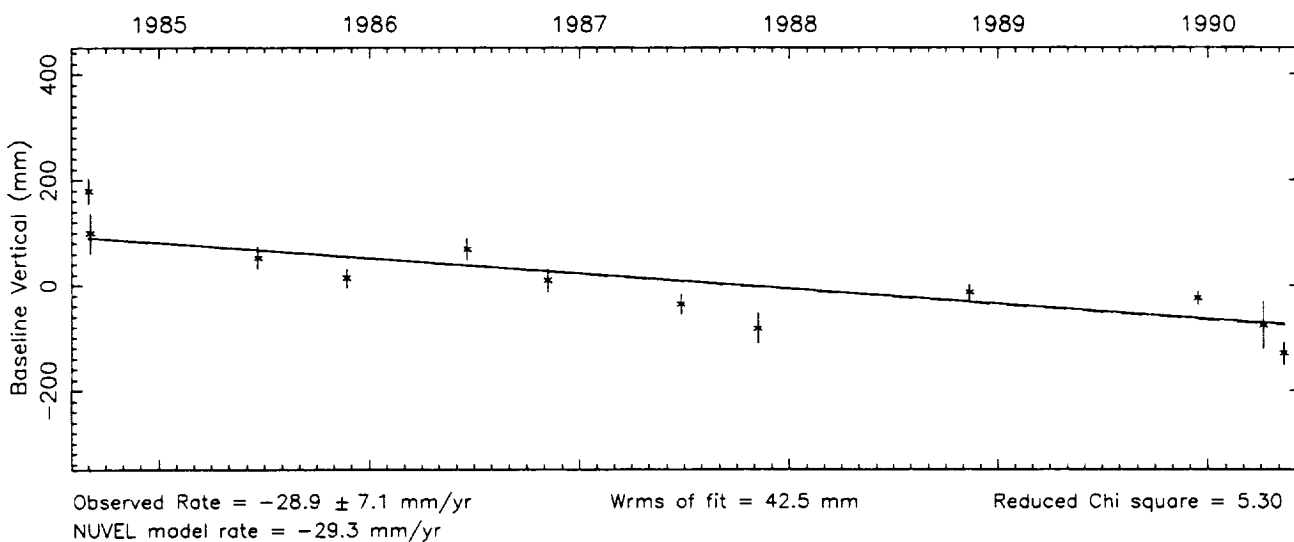
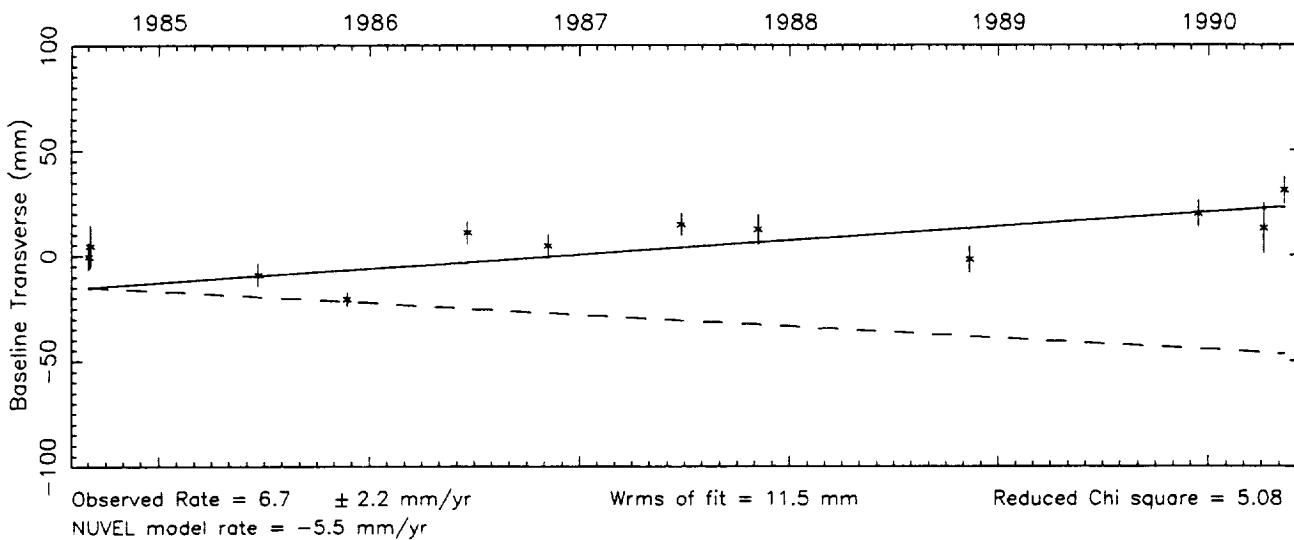
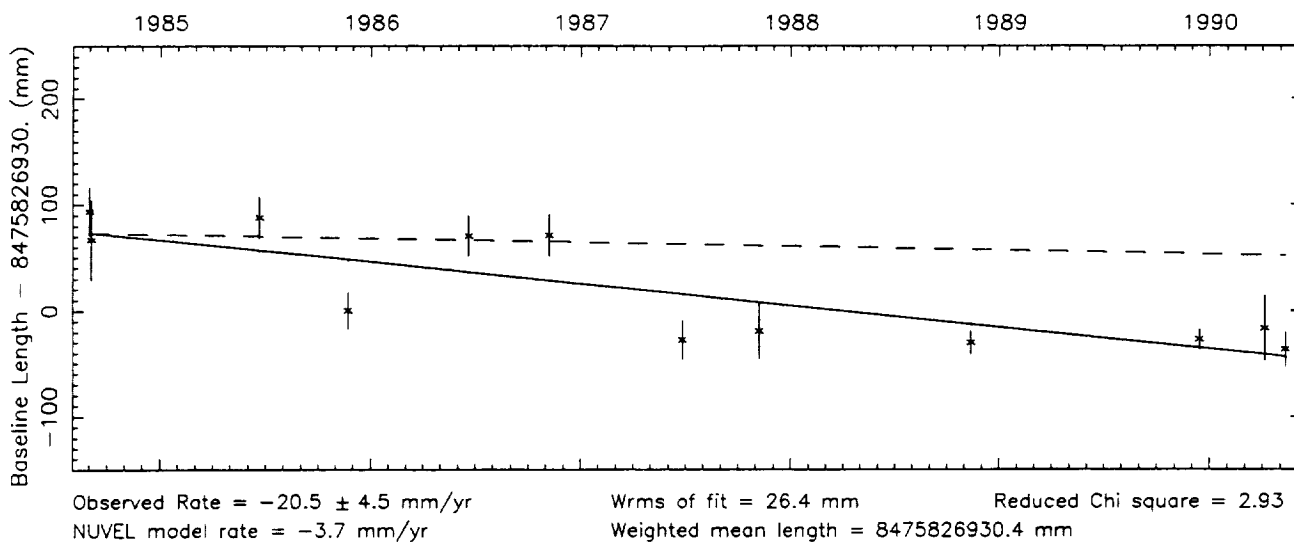
Number of sessions = 8



Vector baseline plots for KASHIMA -WETTZELL

Baseline length = 8476 kilometers

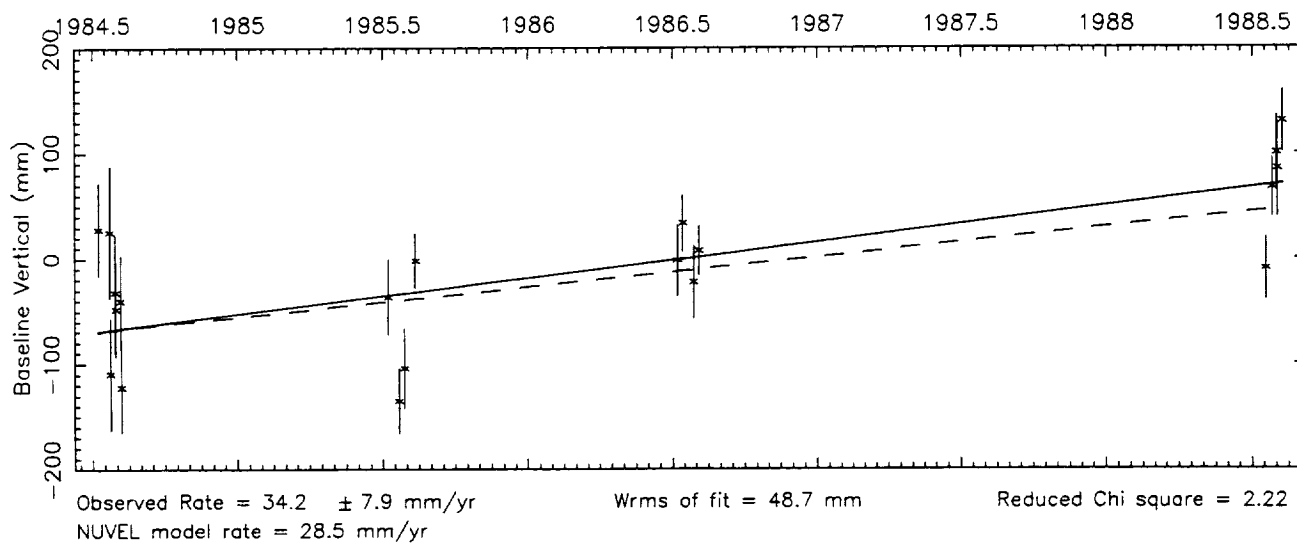
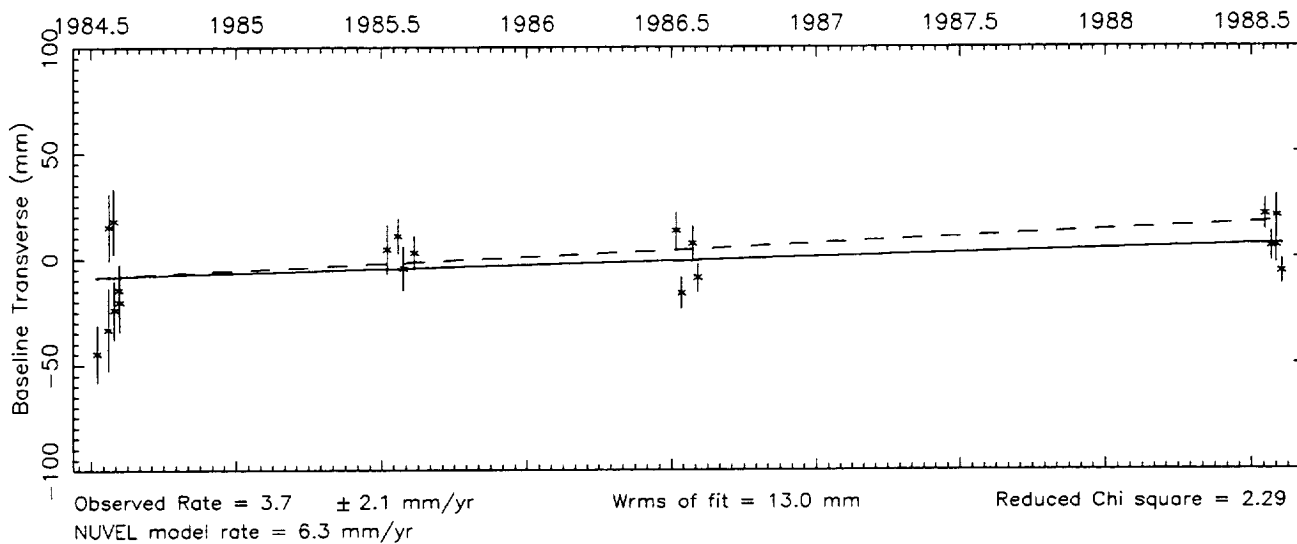
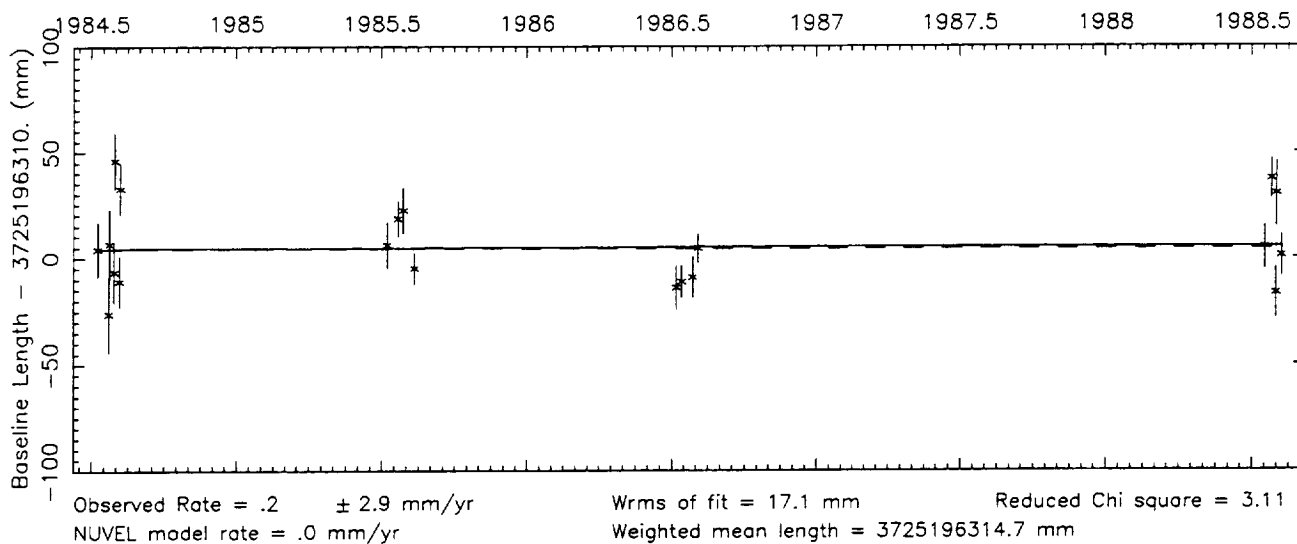
Number of sessions = 12



Vector baseline plots for KAUAI -KWAJAL26

Baseline length = 3725 kilometers

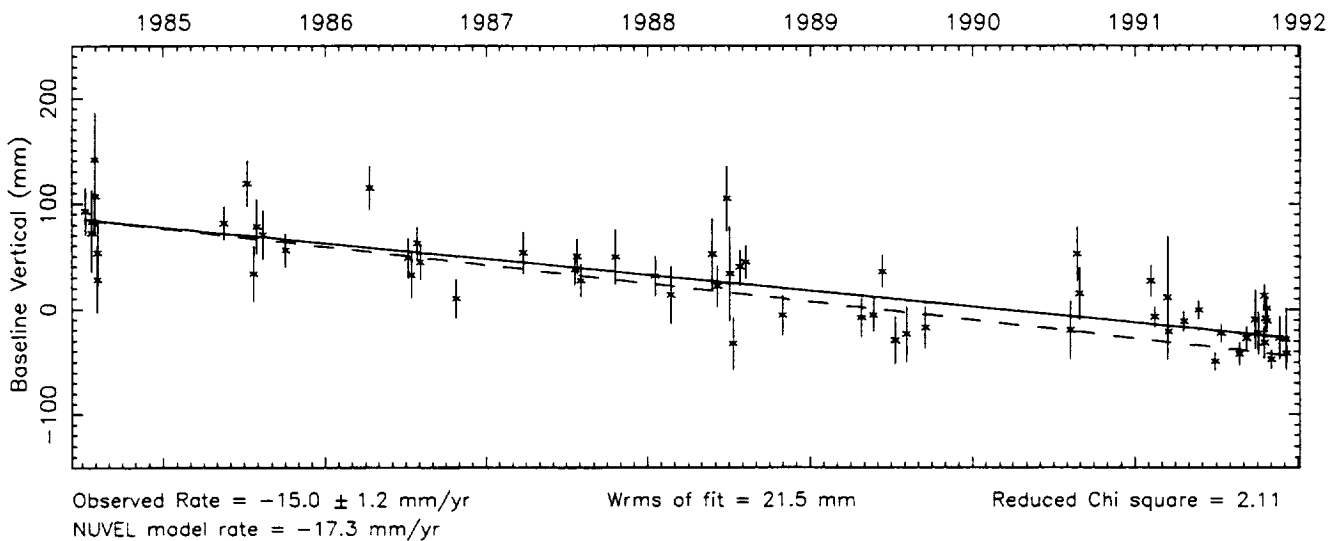
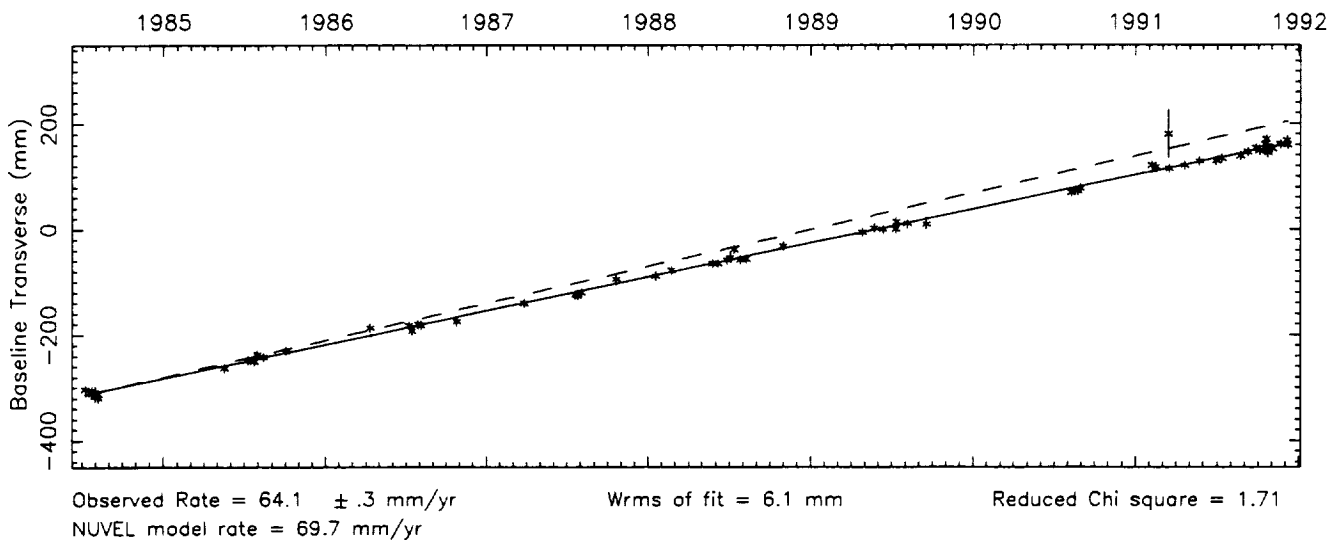
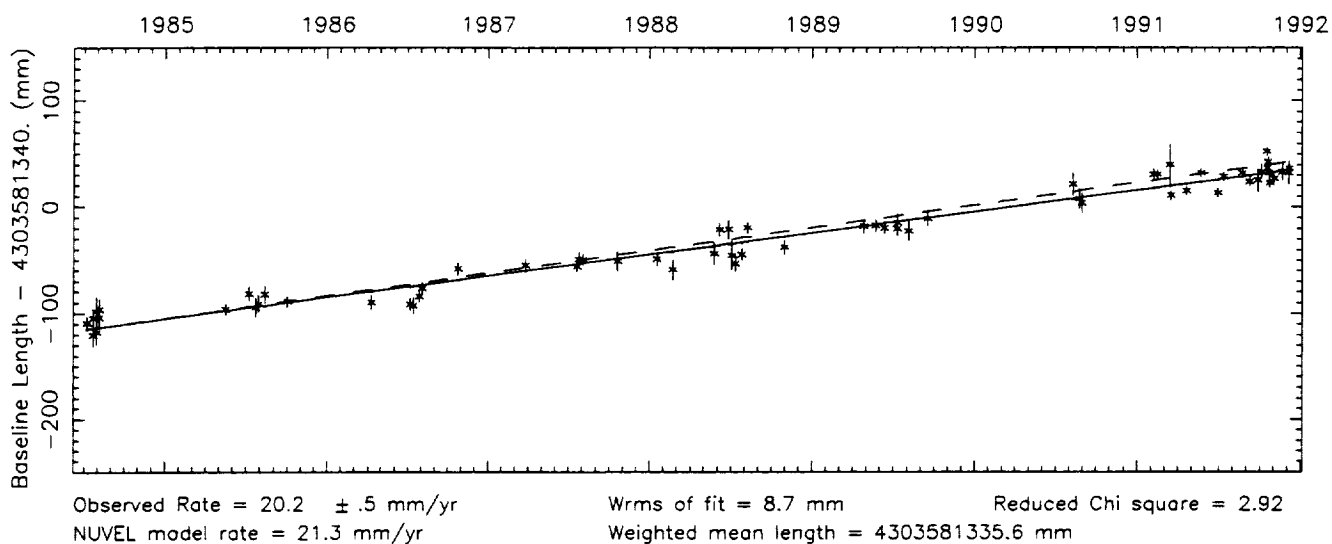
Number of sessions = 20



Vector baseline plots for KAUI - MOJAVE12

Baseline length = 4304 kilometers

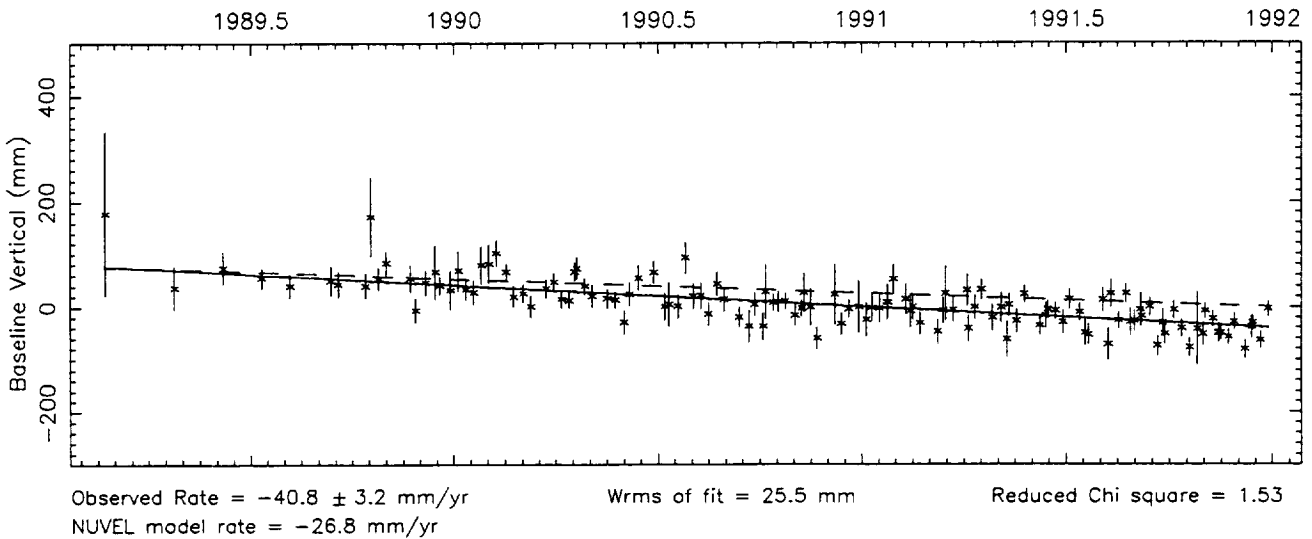
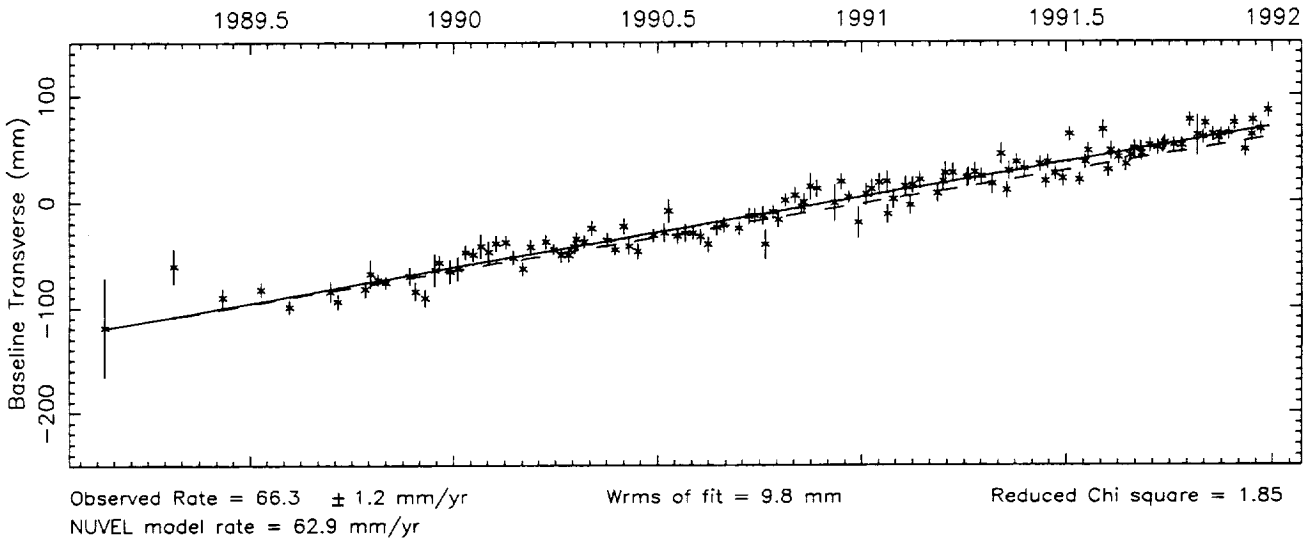
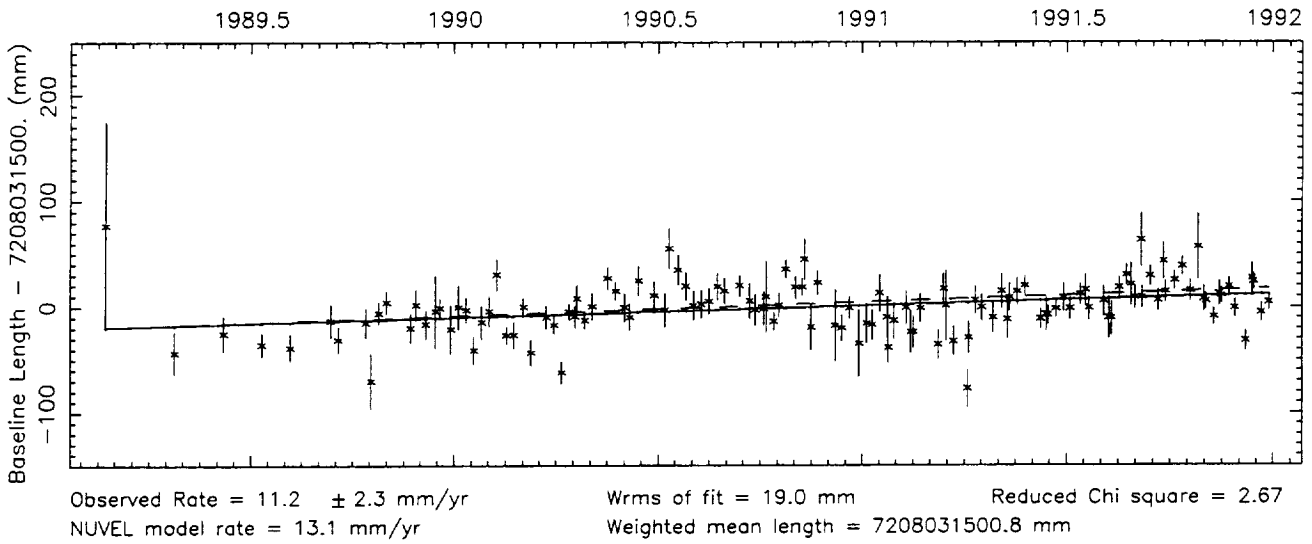
Number of sessions = 65



Vector baseline plots for KAUAI -NRA085 3

Baseline length = 7208 kilometers

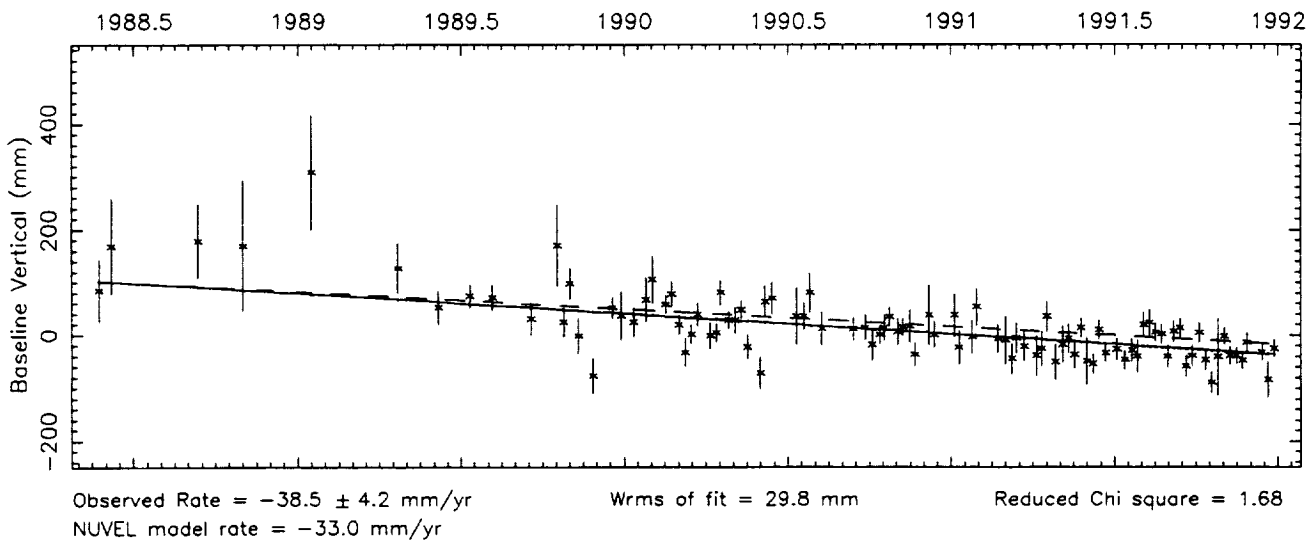
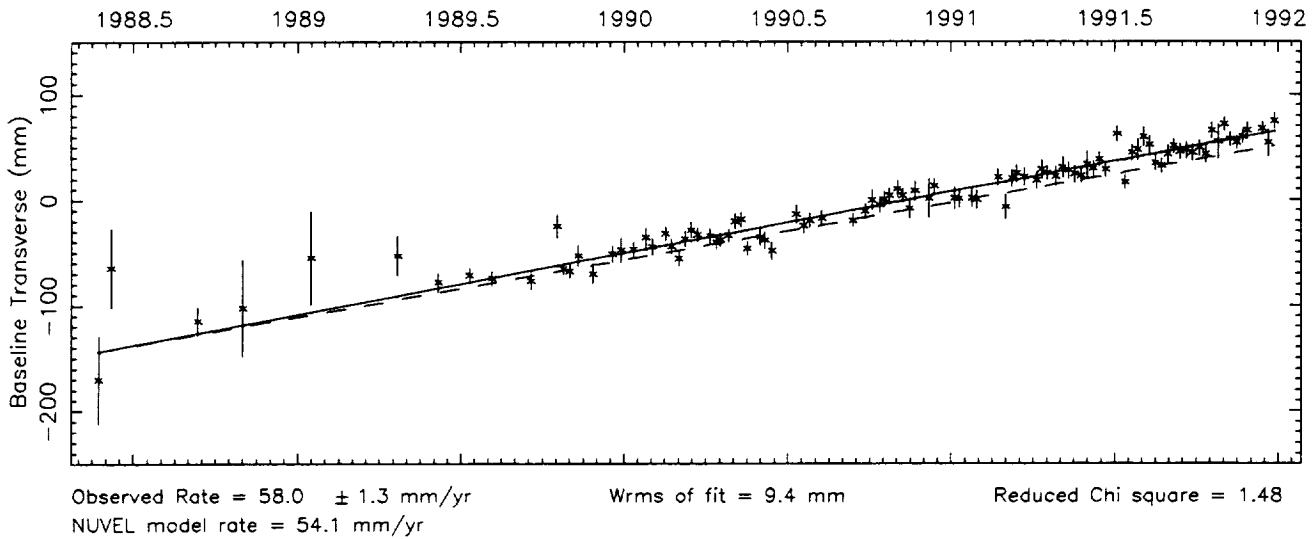
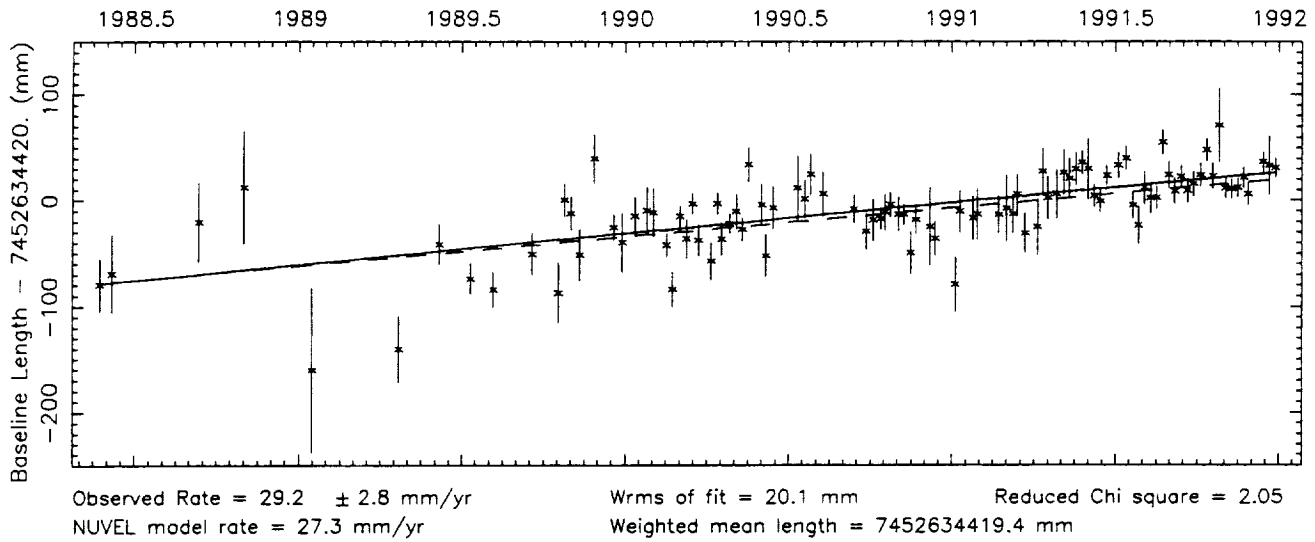
Number of sessions = 129



Vector baseline plots for KAUAI -RICHMOND

Baseline length = 7453 kilometers

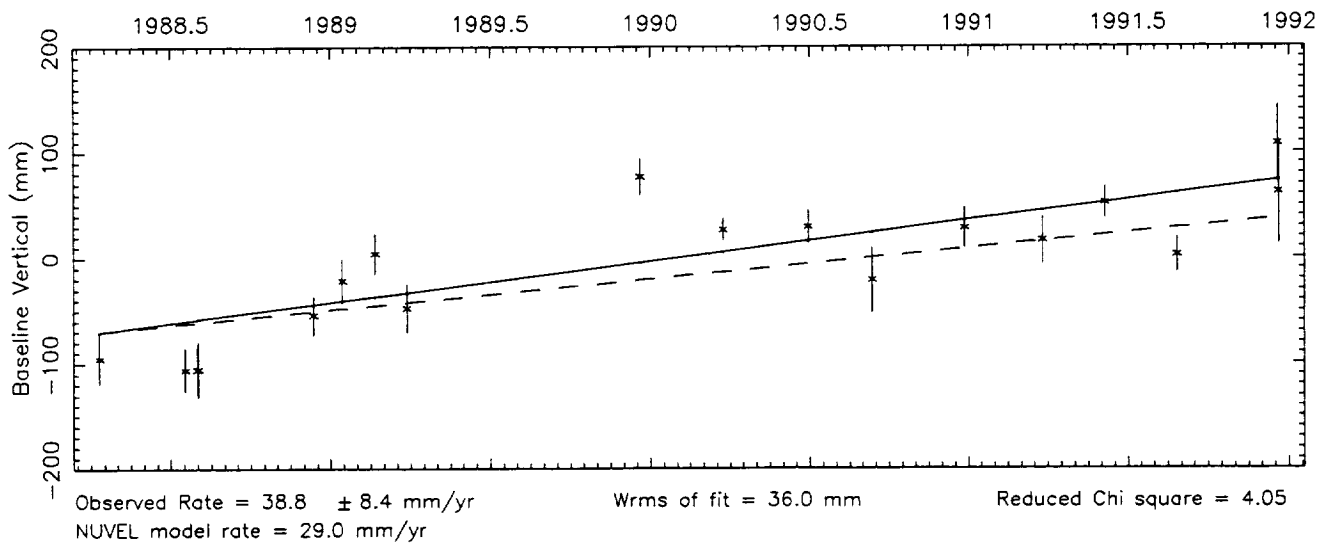
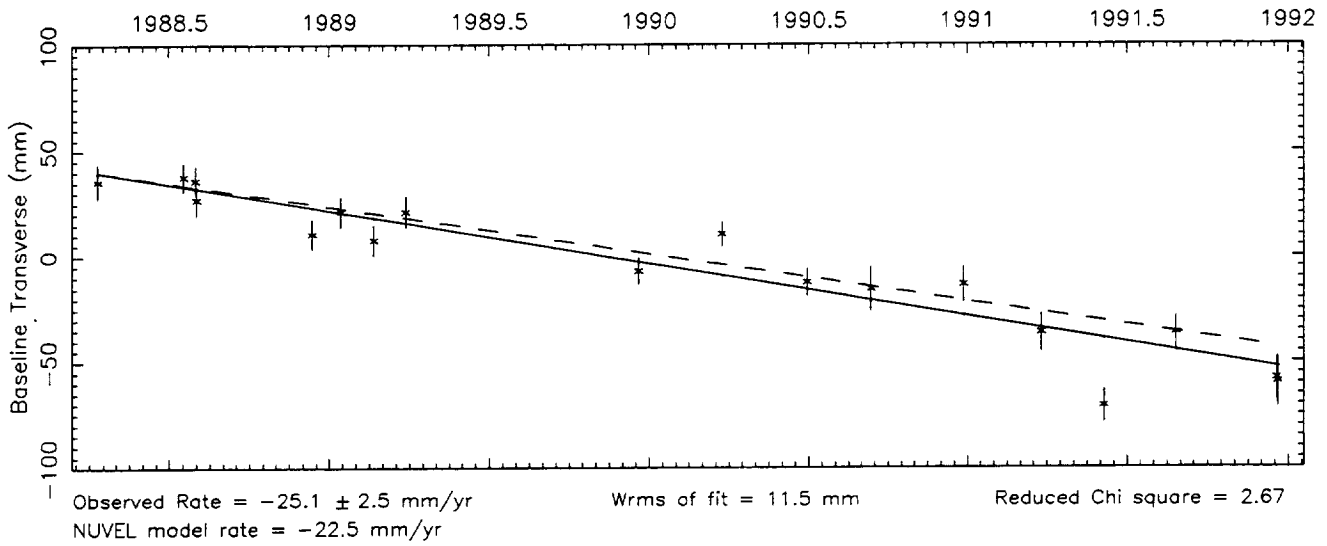
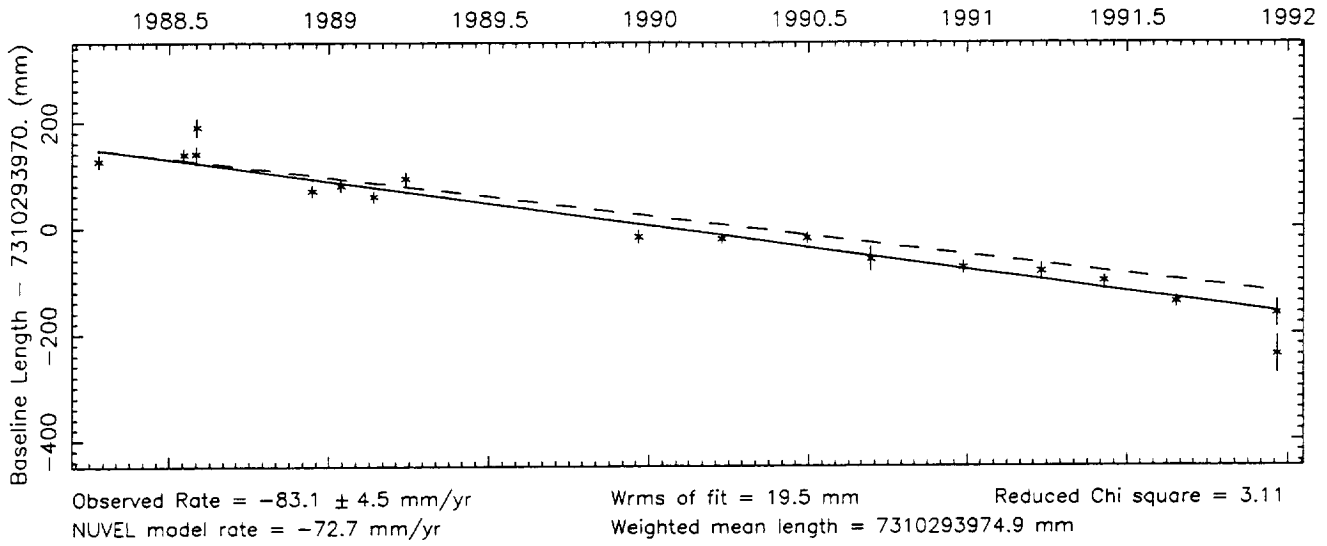
Number of sessions = 98



Vector baseline plots for KAUAI -SESHAN25

Baseline length = 7310 kilometers

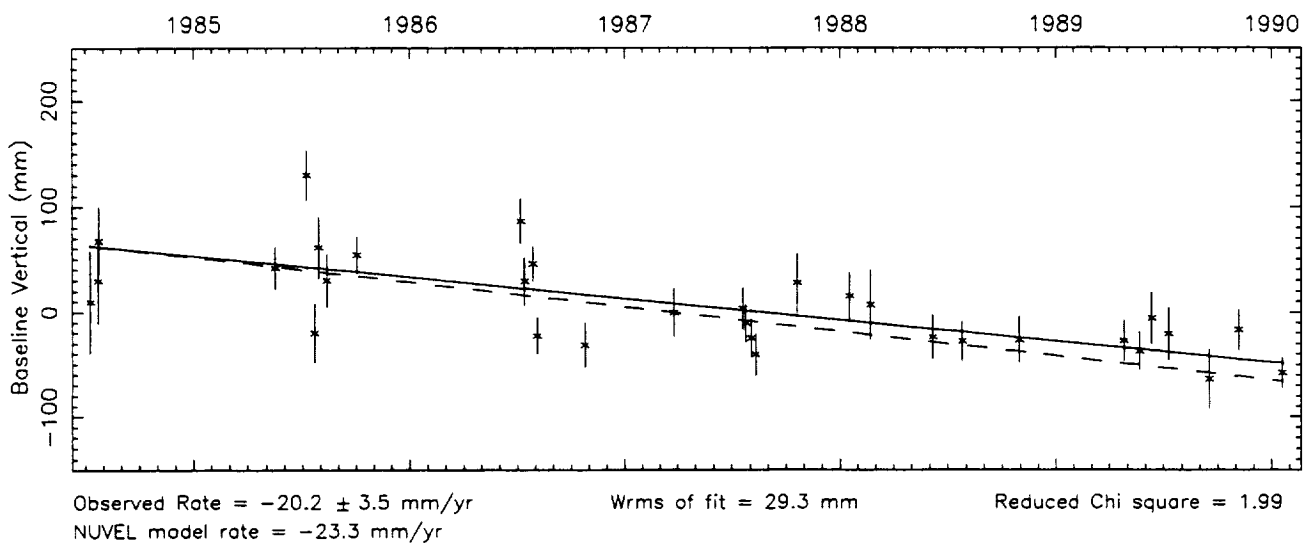
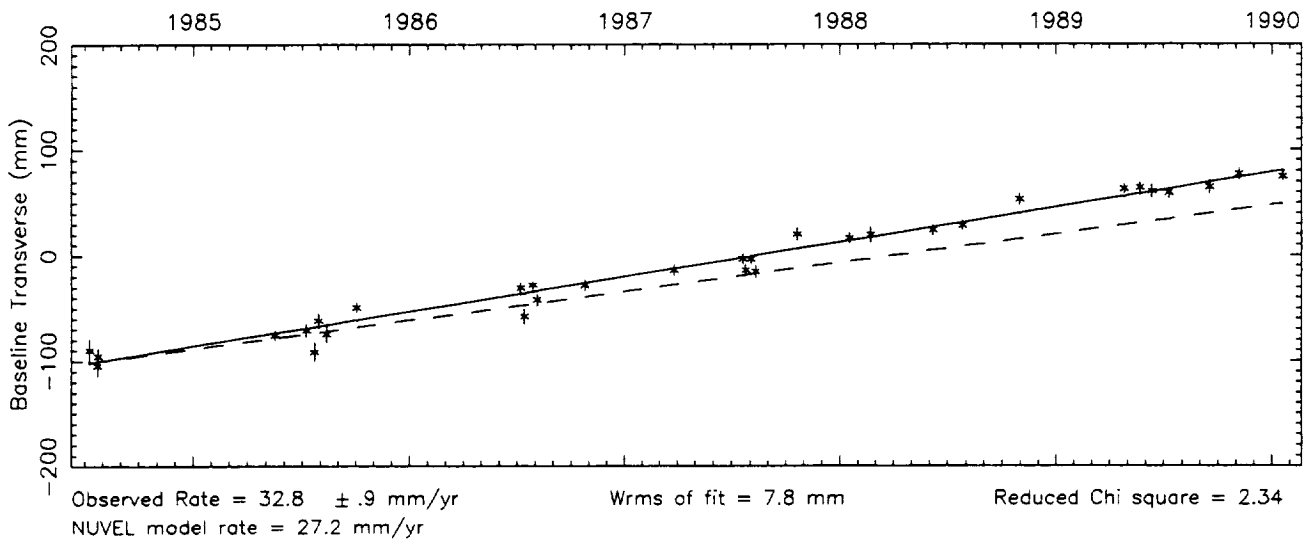
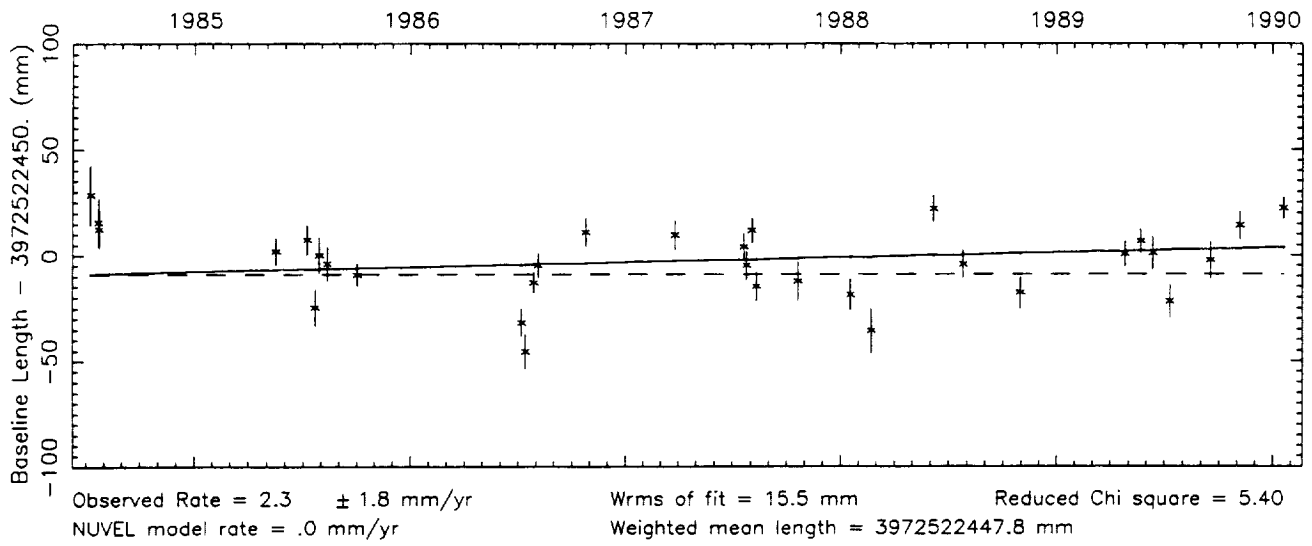
Number of sessions = 18



Vector baseline plots for KAUAI -VNDNBERG

Baseline length = 3973 kilometers

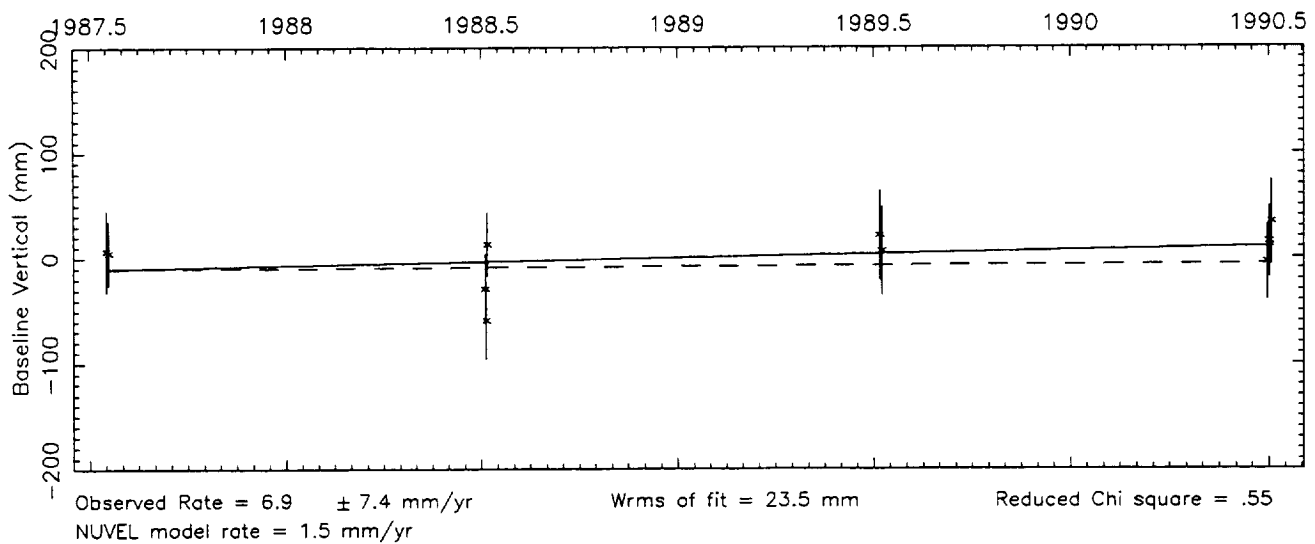
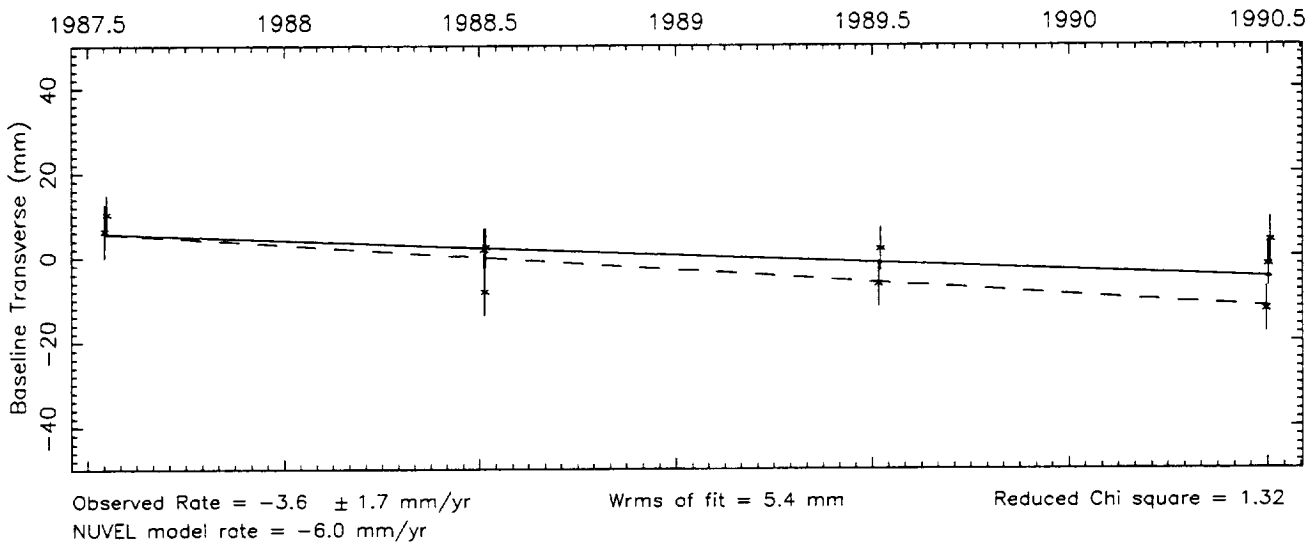
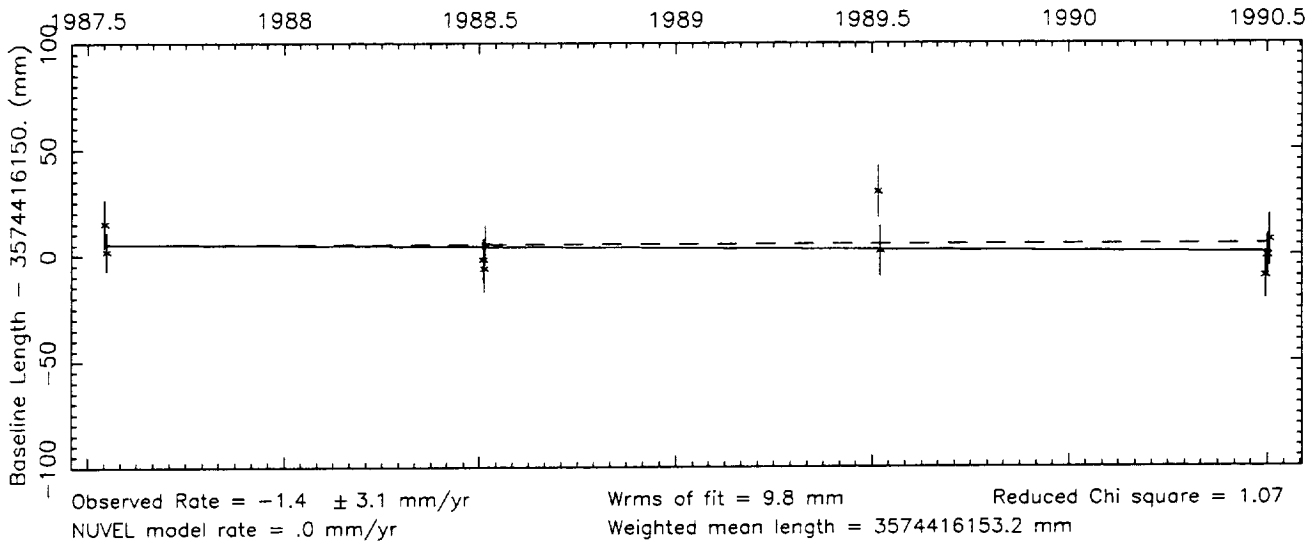
Number of sessions = 32



Vector baseline plots for KODIAK -MOJAVE12

Baseline length = 3574 kilometers

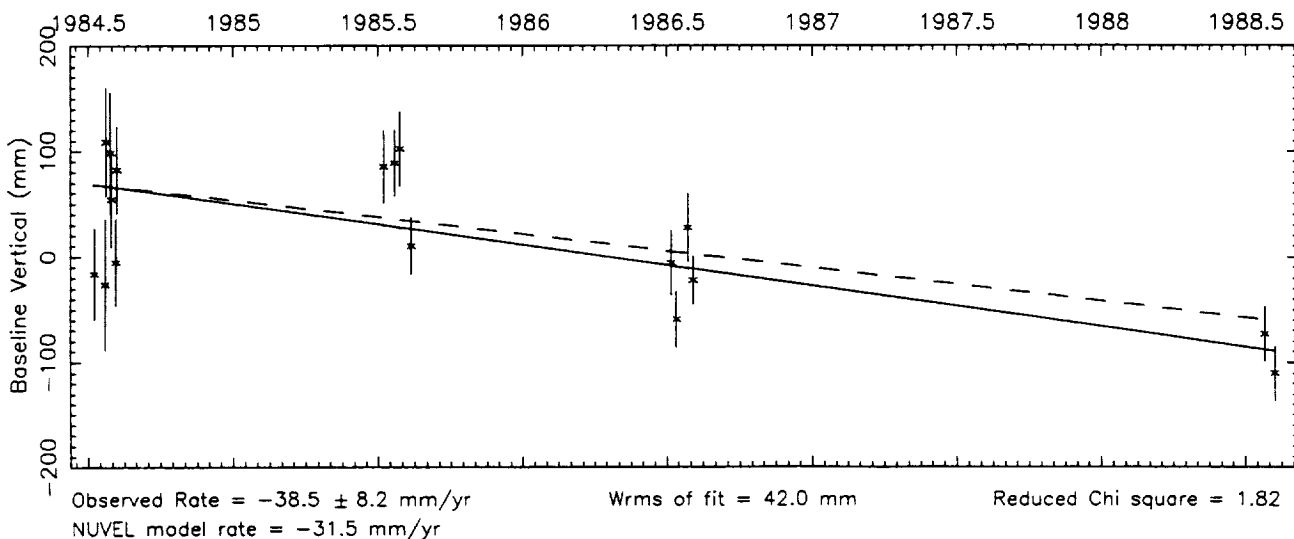
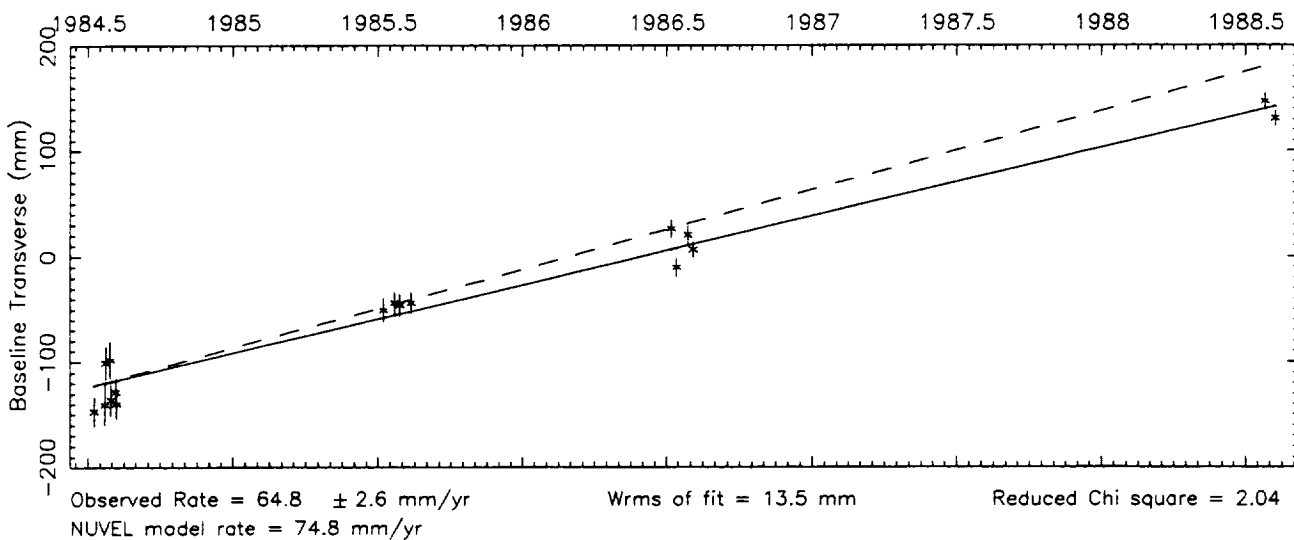
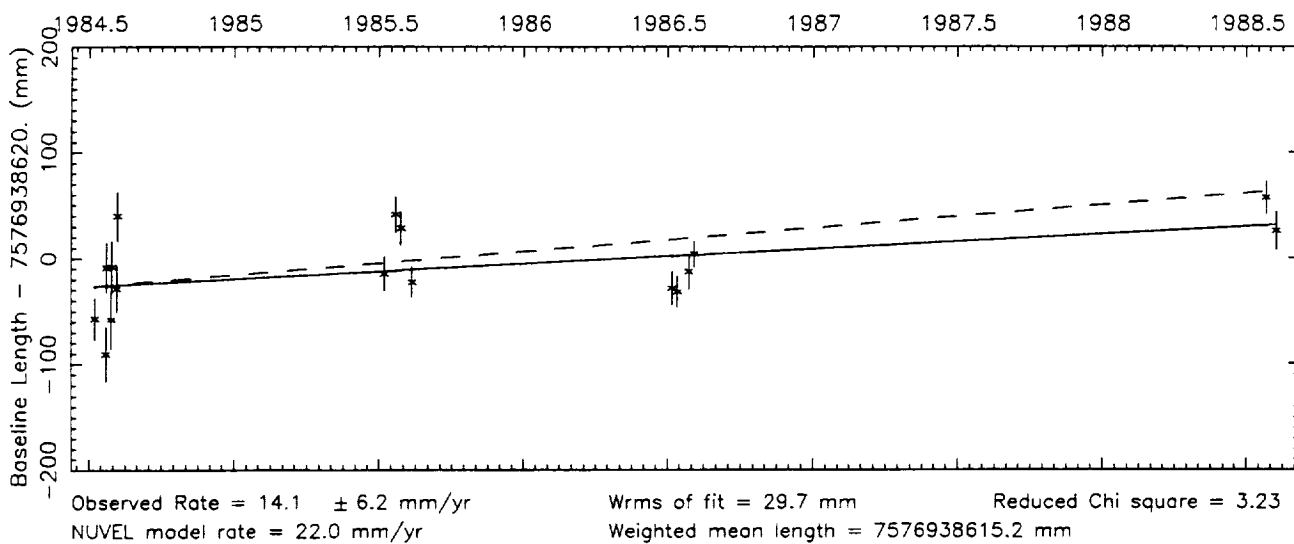
Number of sessions = 10



Vector baseline plots for KWAJAL26-MOJAVE12

Baseline length = 7577 kilometers

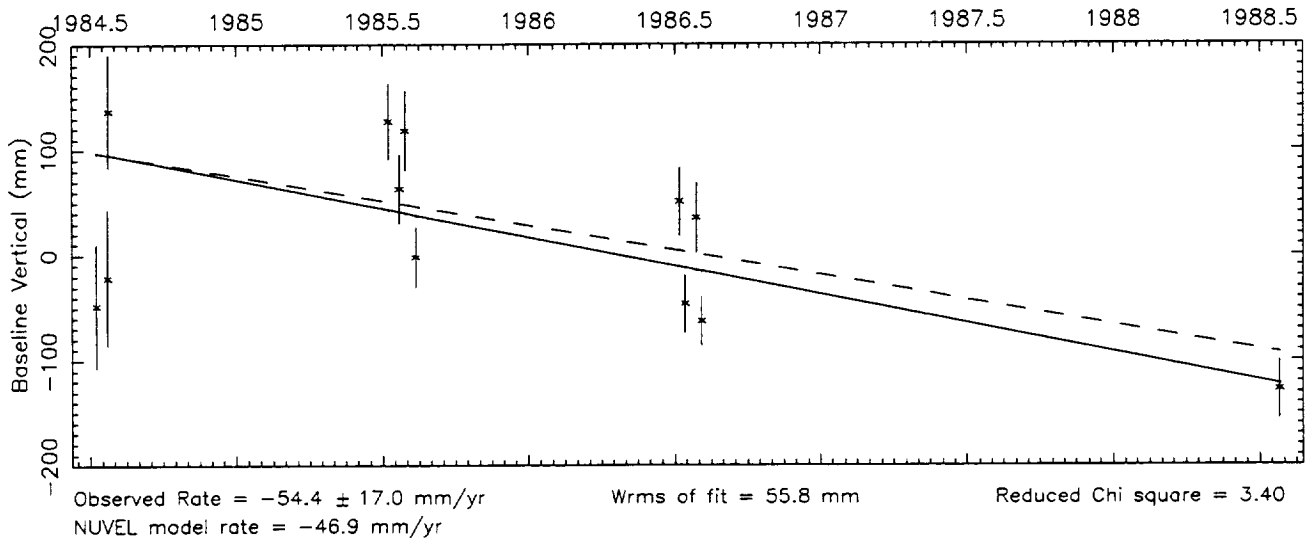
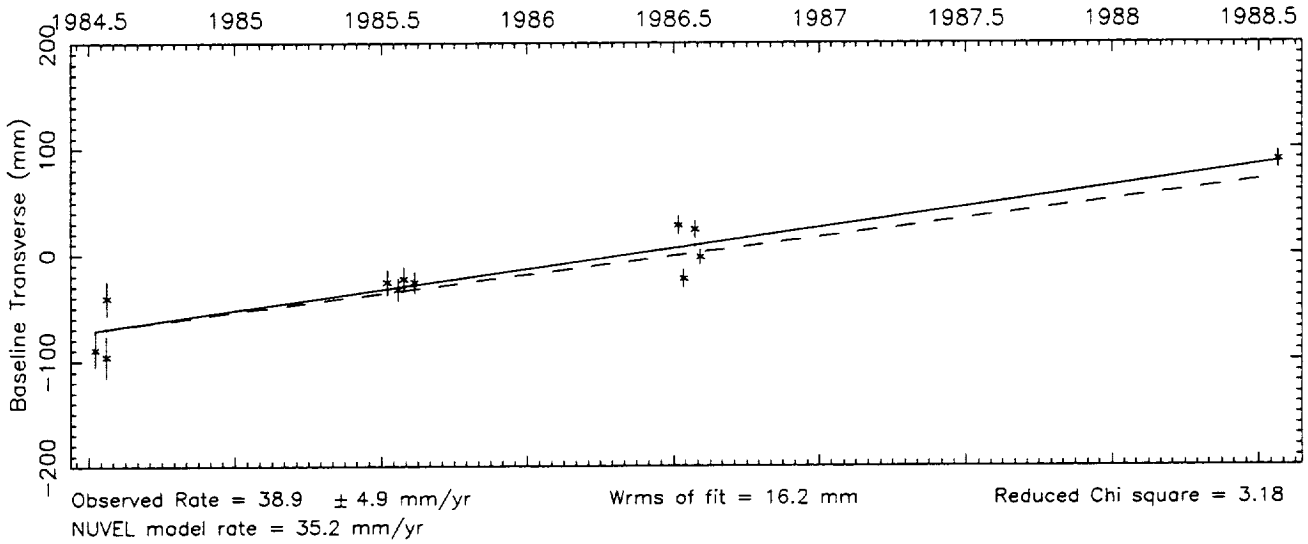
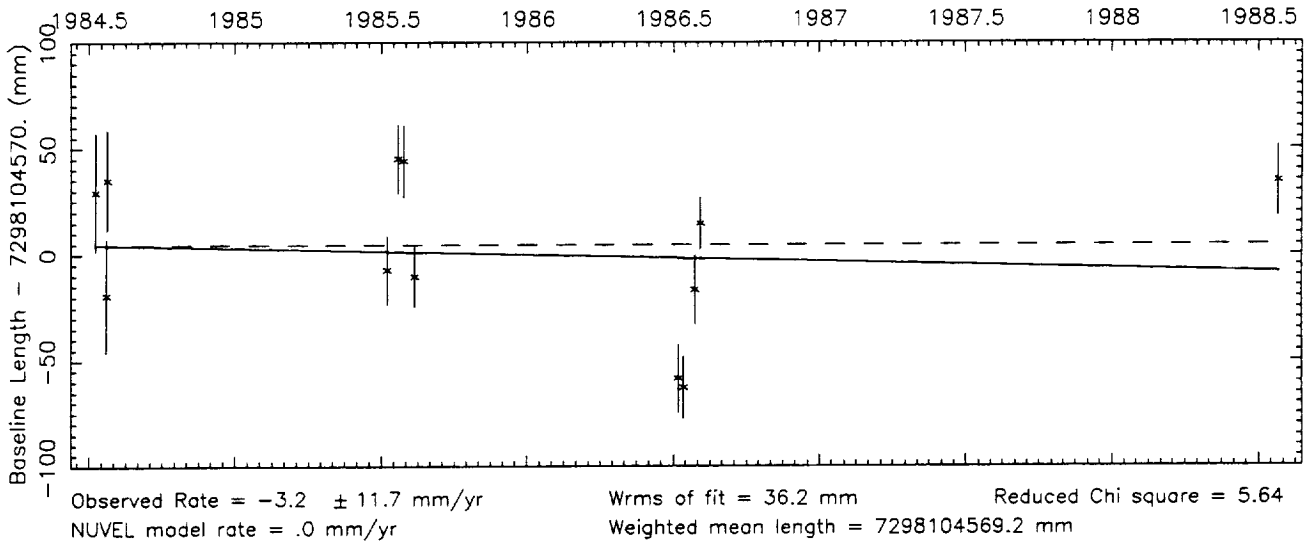
Number of sessions = 17



Vector baseline plots for KWAJAL26-VNDNBERG

Baseline length = 7298 kilometers

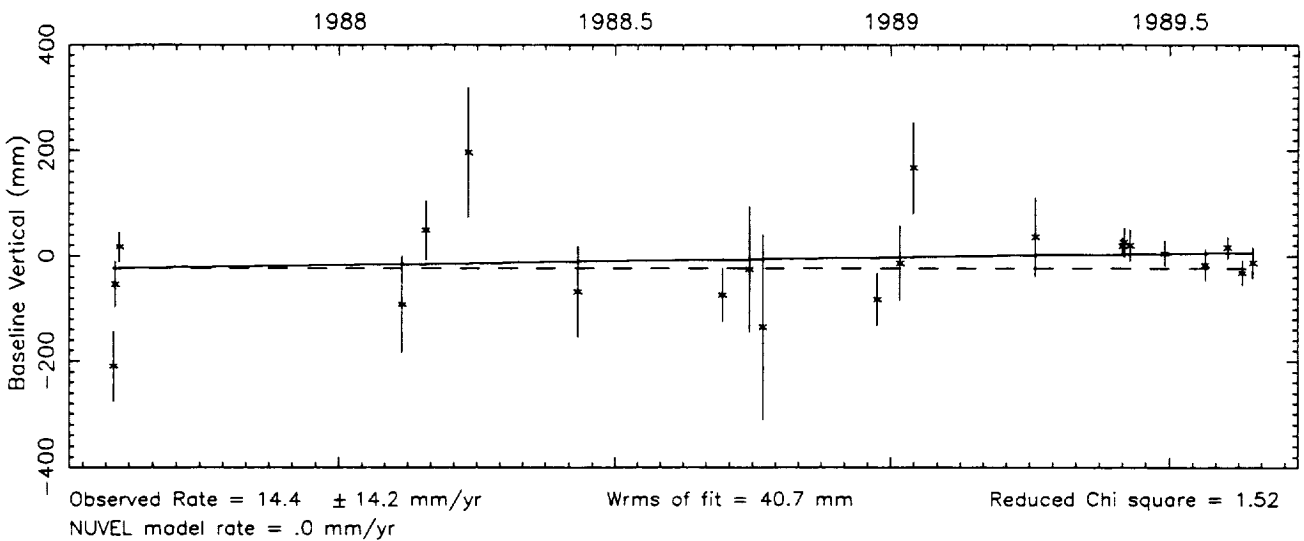
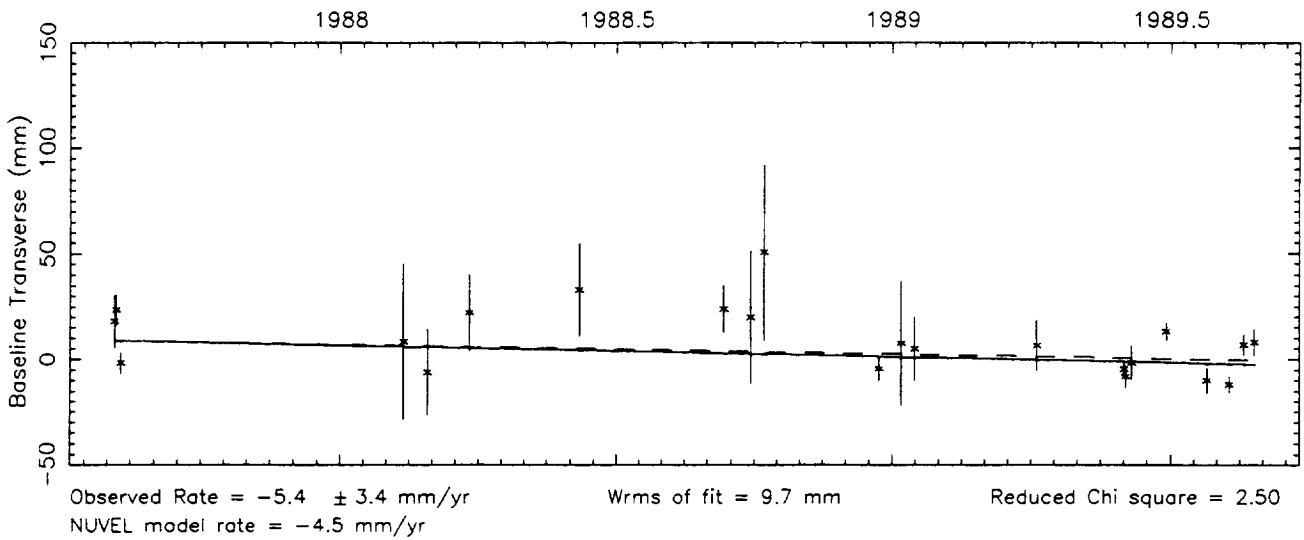
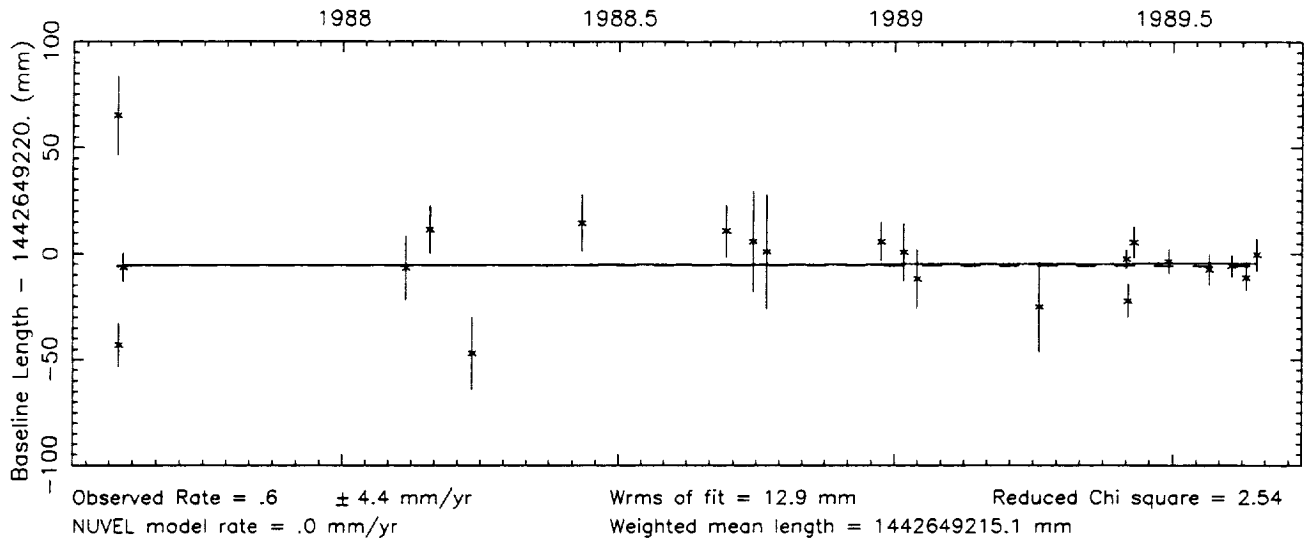
Number of sessions = 12



Vector baseline plots for MARPOINT-RICHMOND

Baseline length = 1443 kilometers

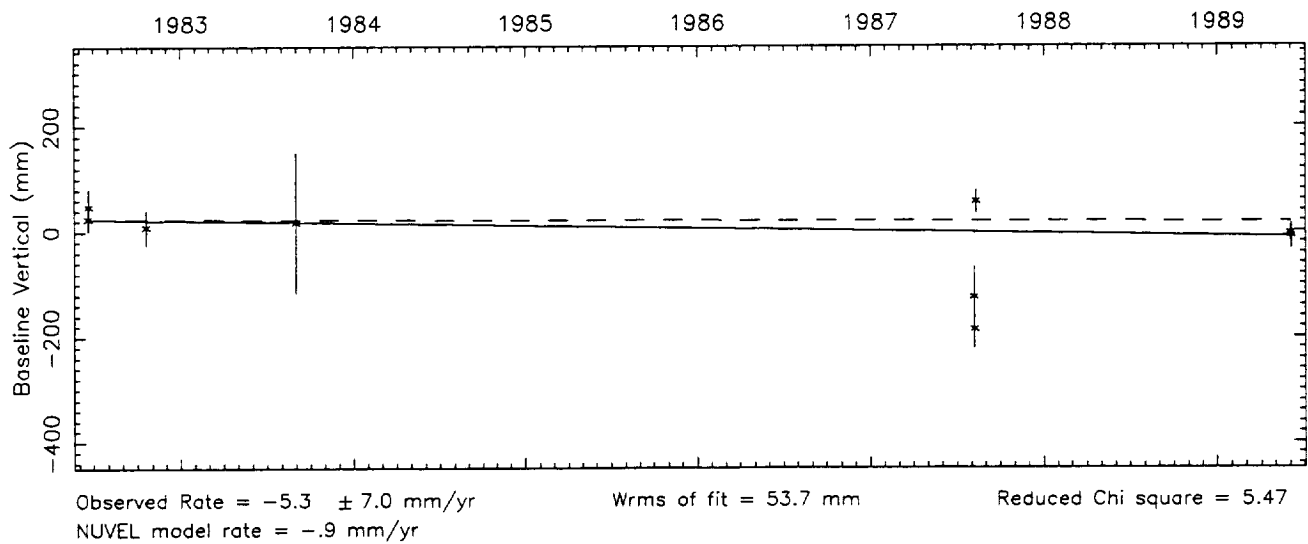
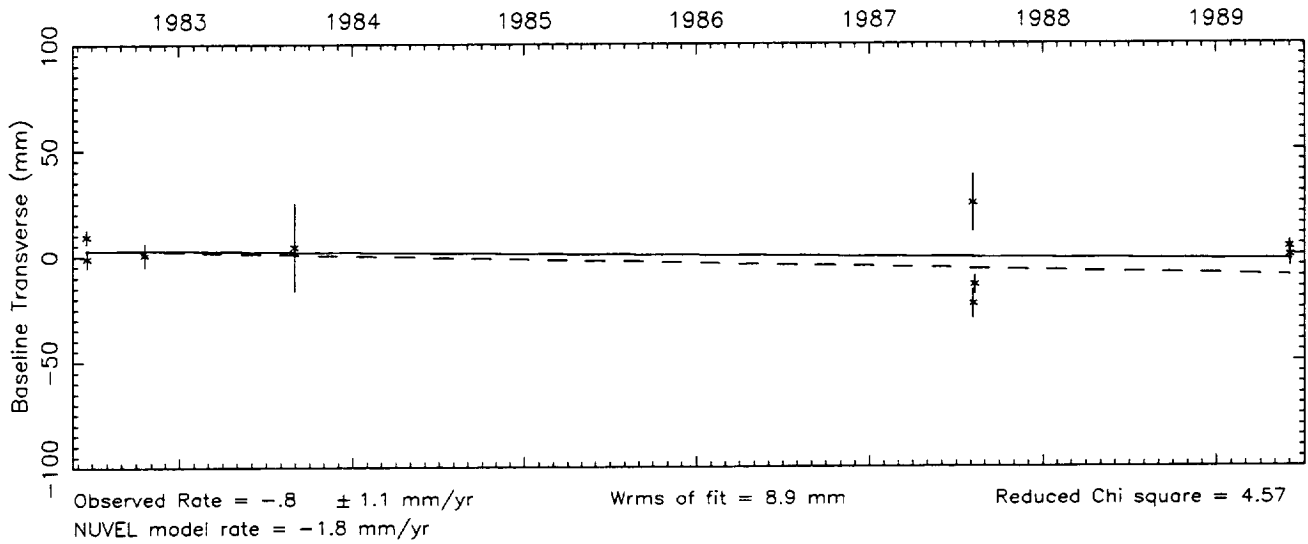
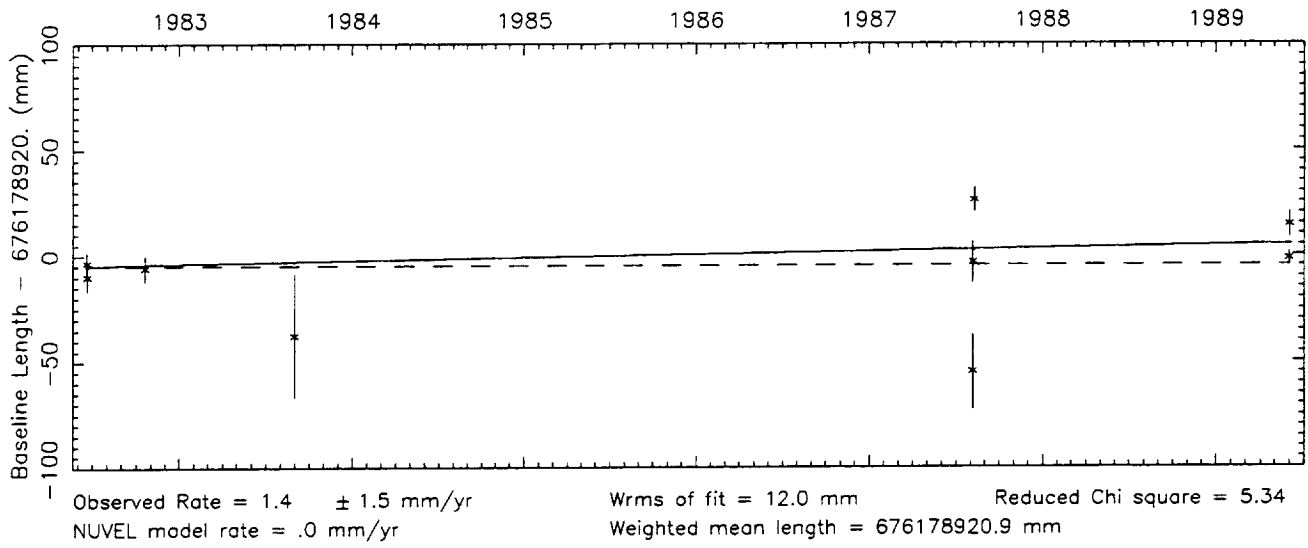
Number of sessions = 22



Vector baseline plots for MARPOINT-WESTFORD

Baseline length = 676 kilometers

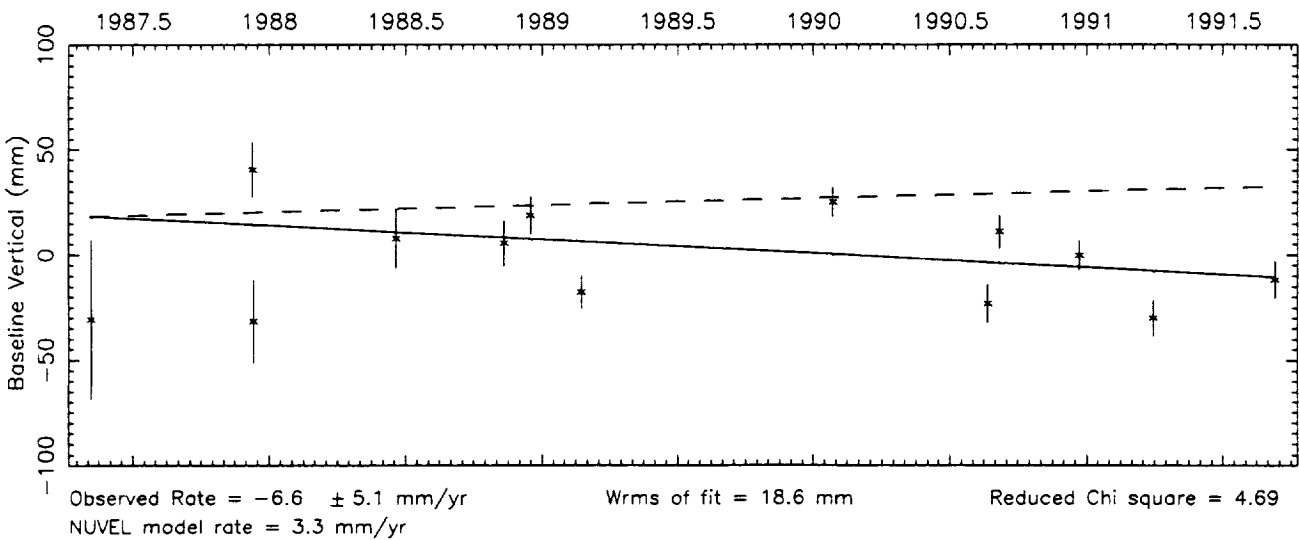
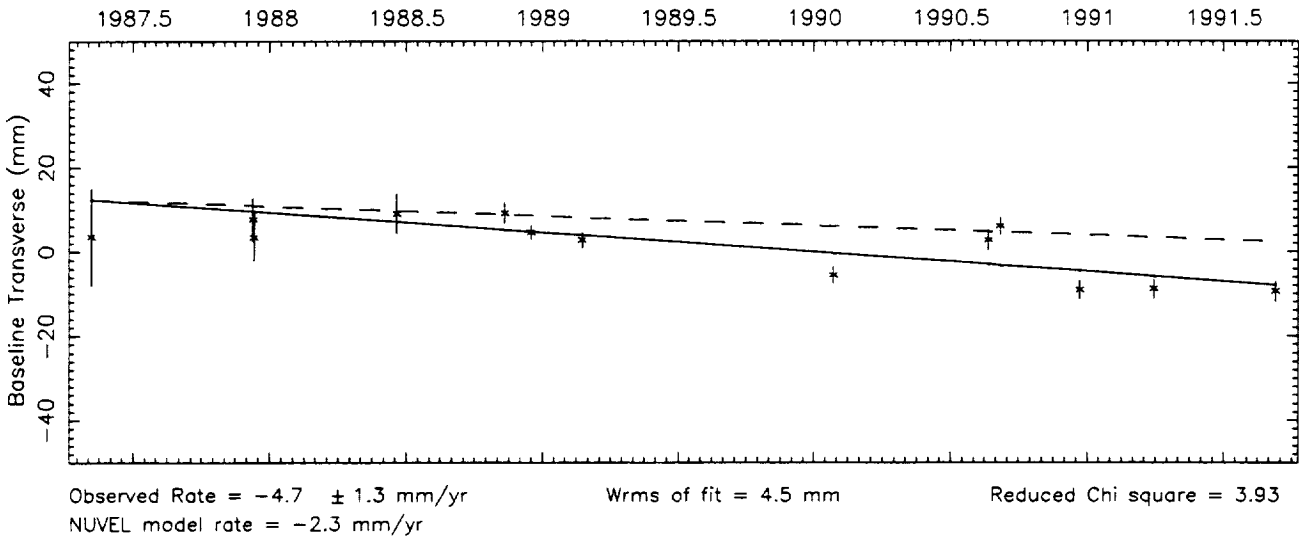
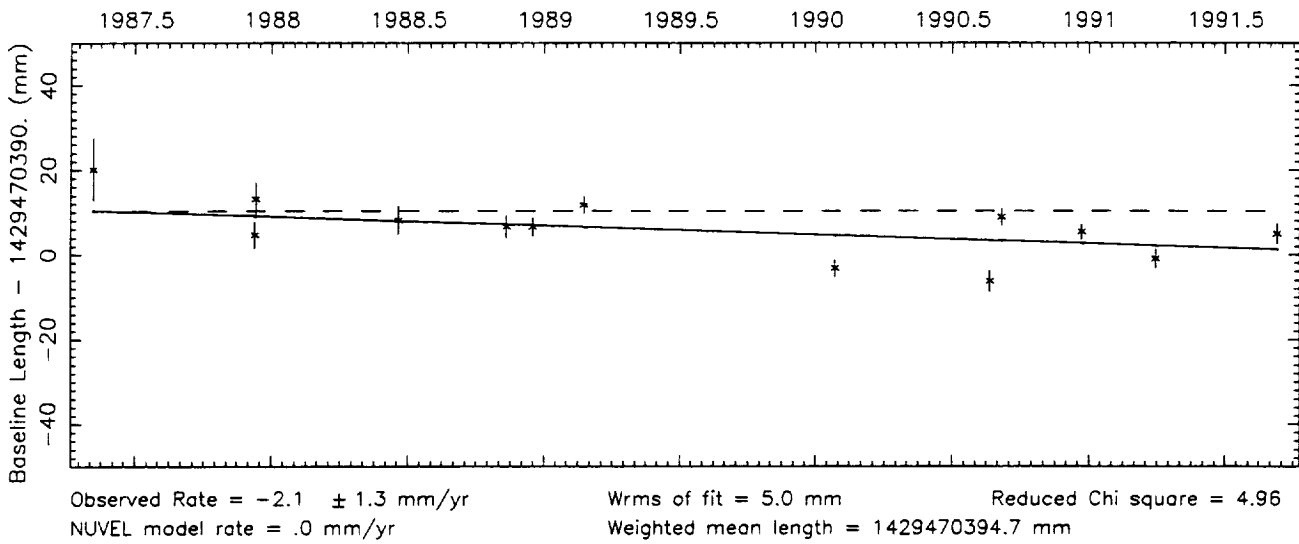
Number of sessions = 9



Vector baseline plots for MEDICINA--ONSALA60

Baseline length = 1429 kilometers

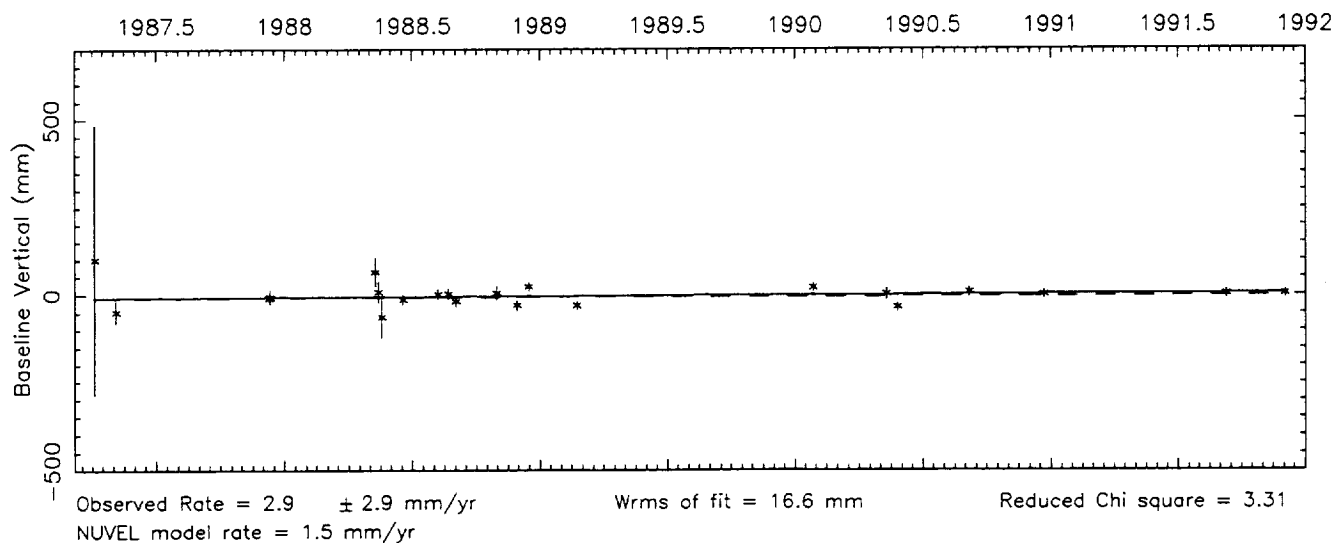
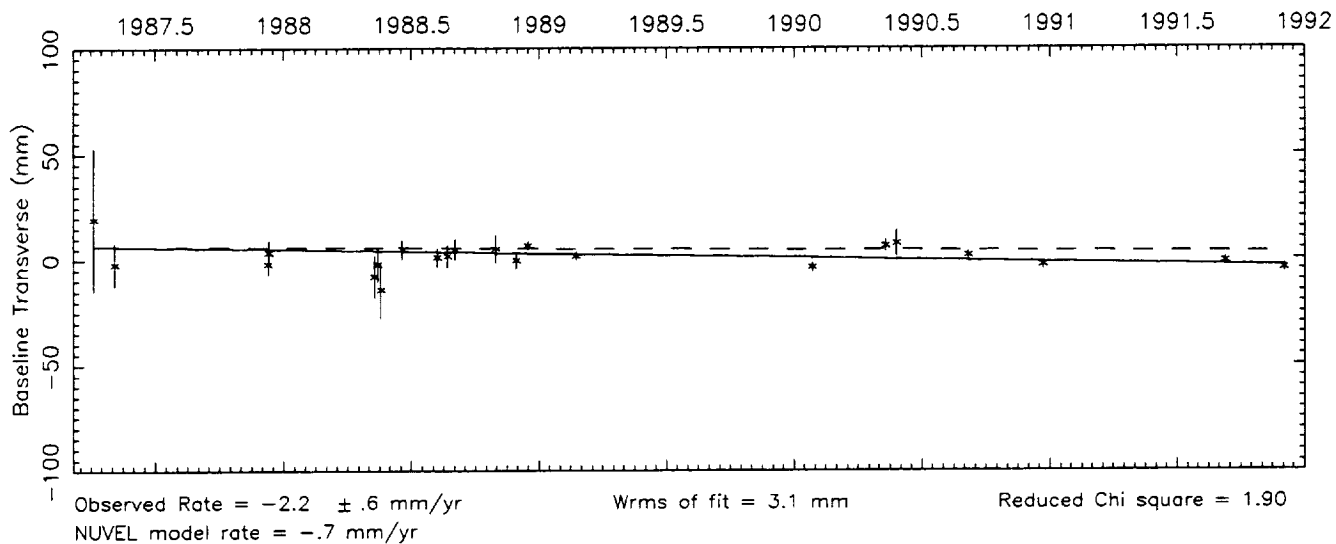
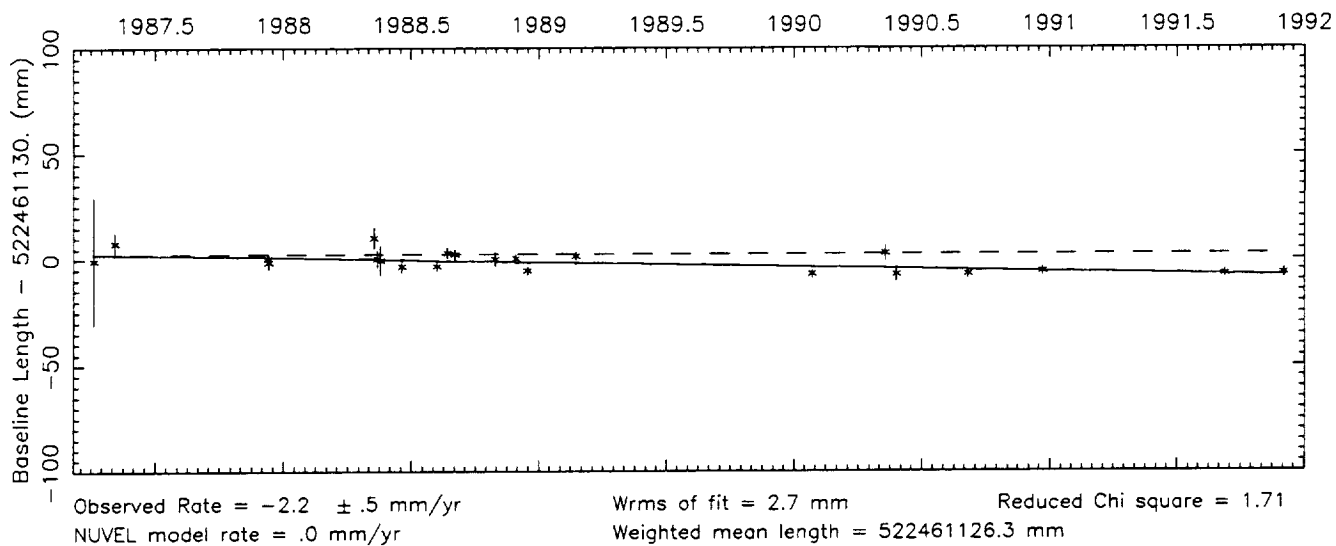
Number of sessions = 13



Vector baseline plots for MEDICINA-WETTZELL

Baseline length = 522 kilometers

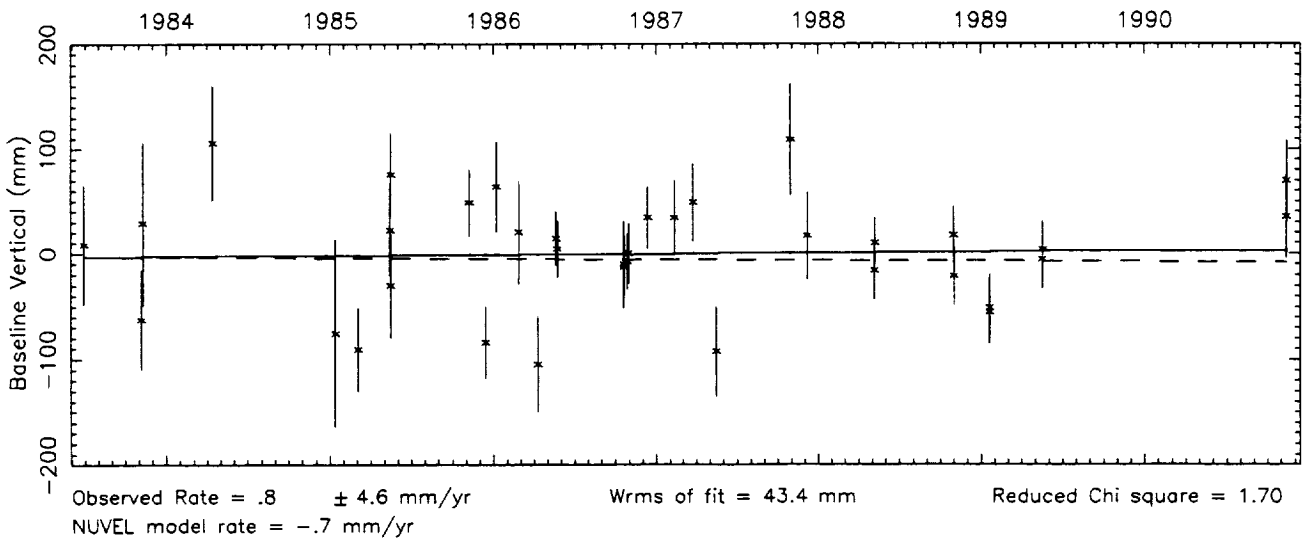
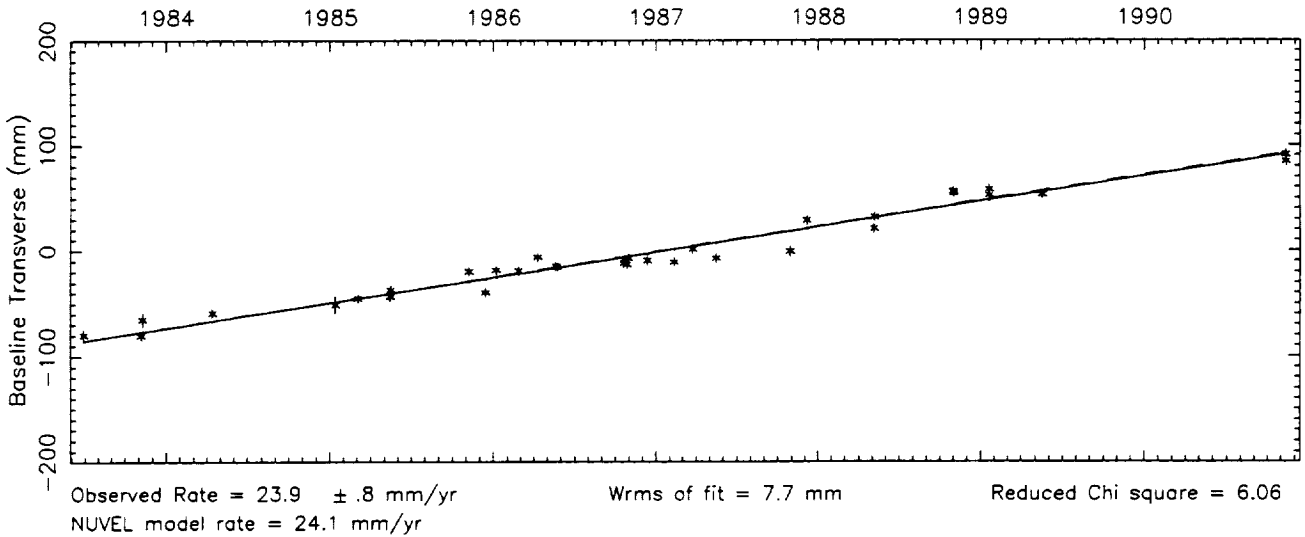
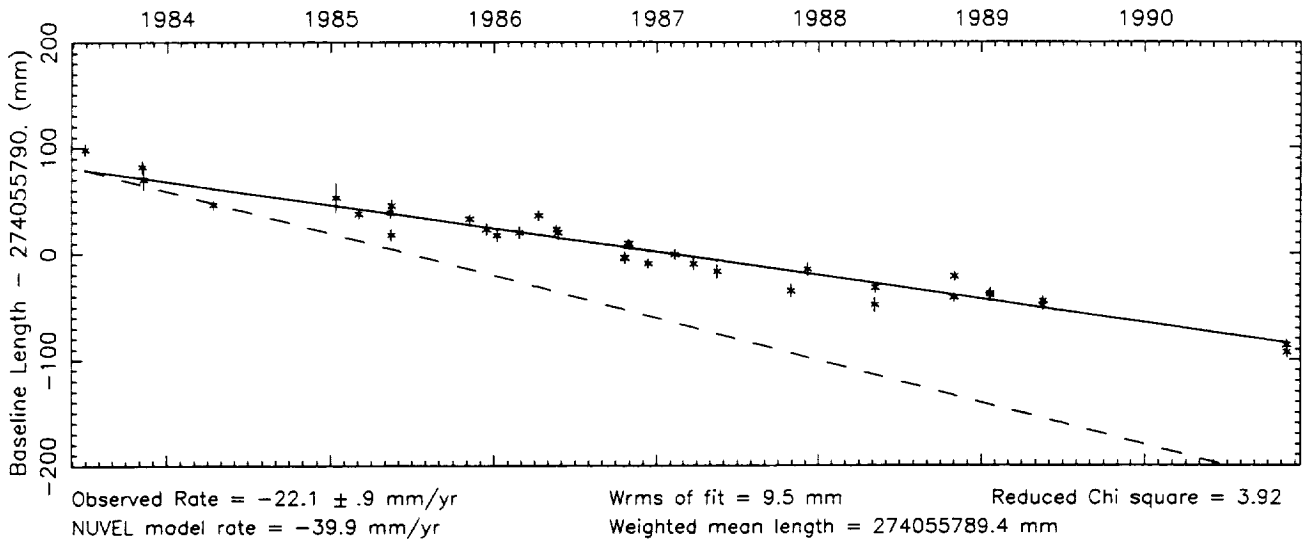
Number of sessions = 22



Vector baseline plots for MOJAVE12-MON PEAK

Baseline length = 274 kilometers

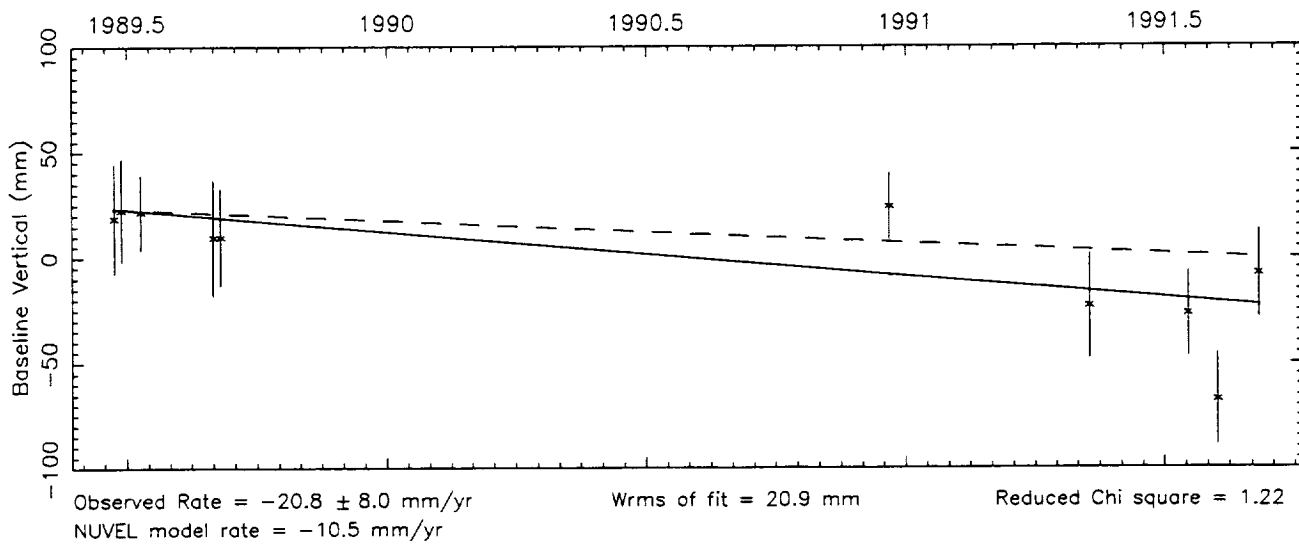
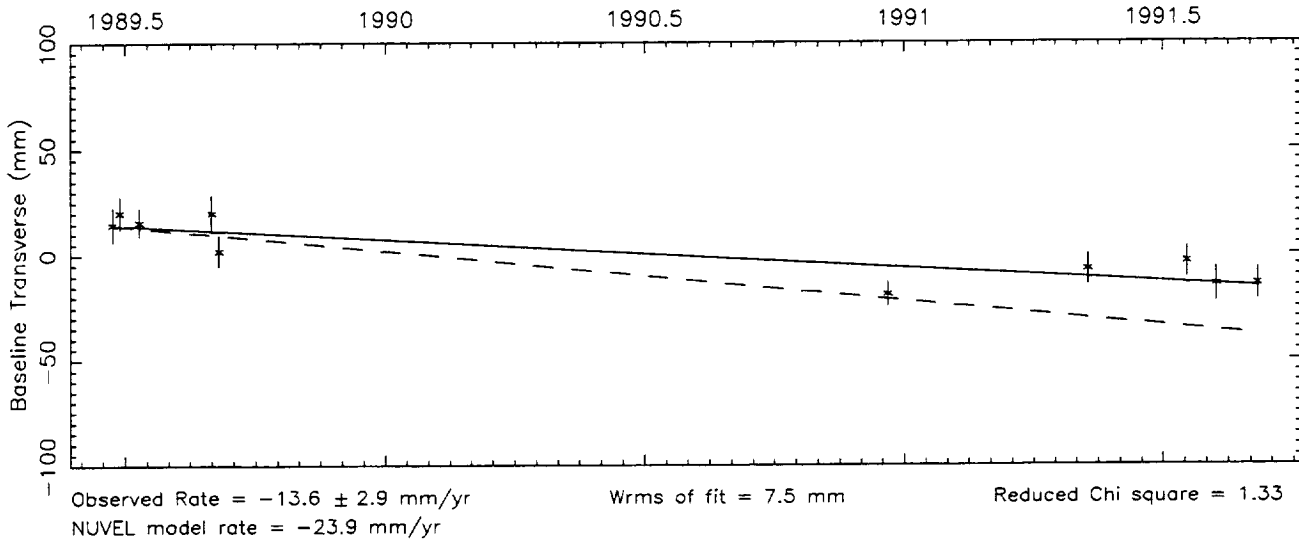
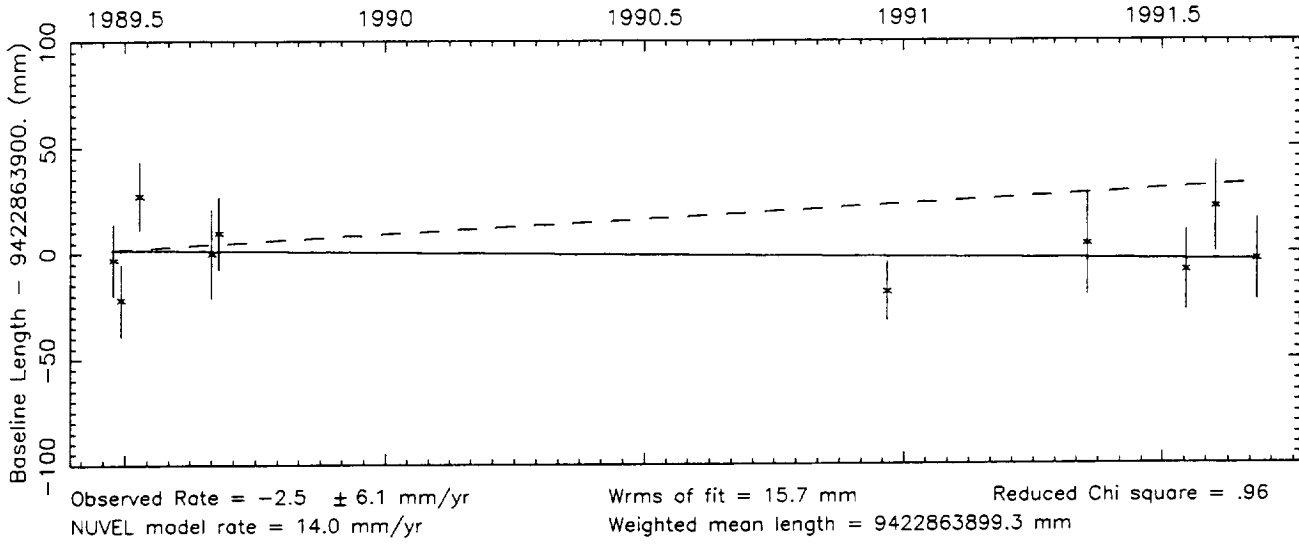
Number of sessions = 36



Vector baseline plots for MOJAVE12-NOTO

Baseline length = 9423 kilometers

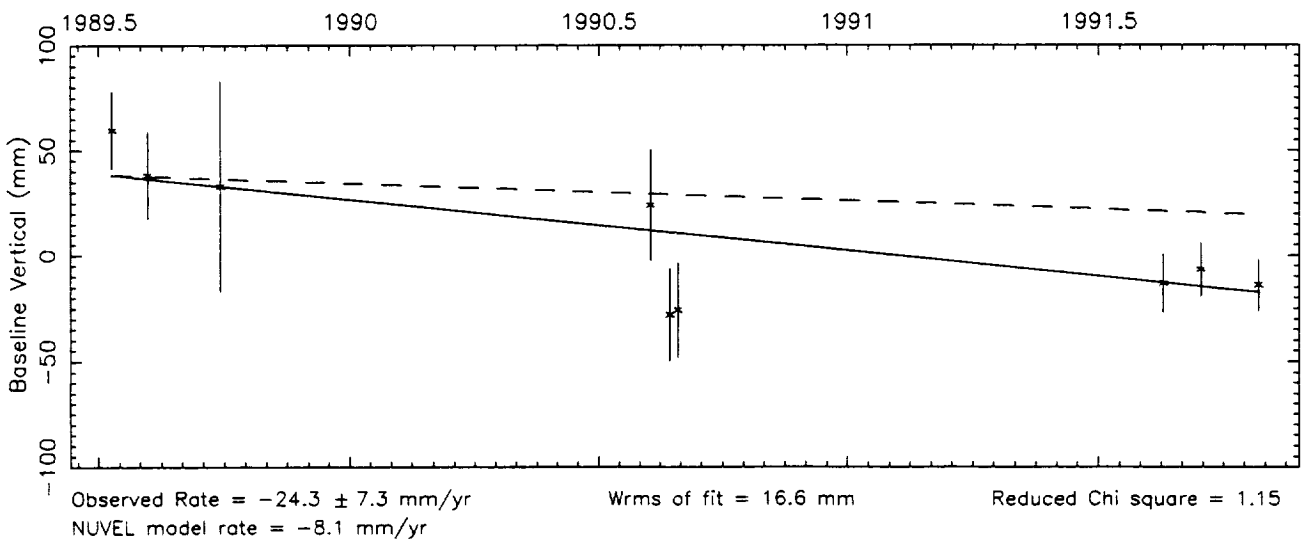
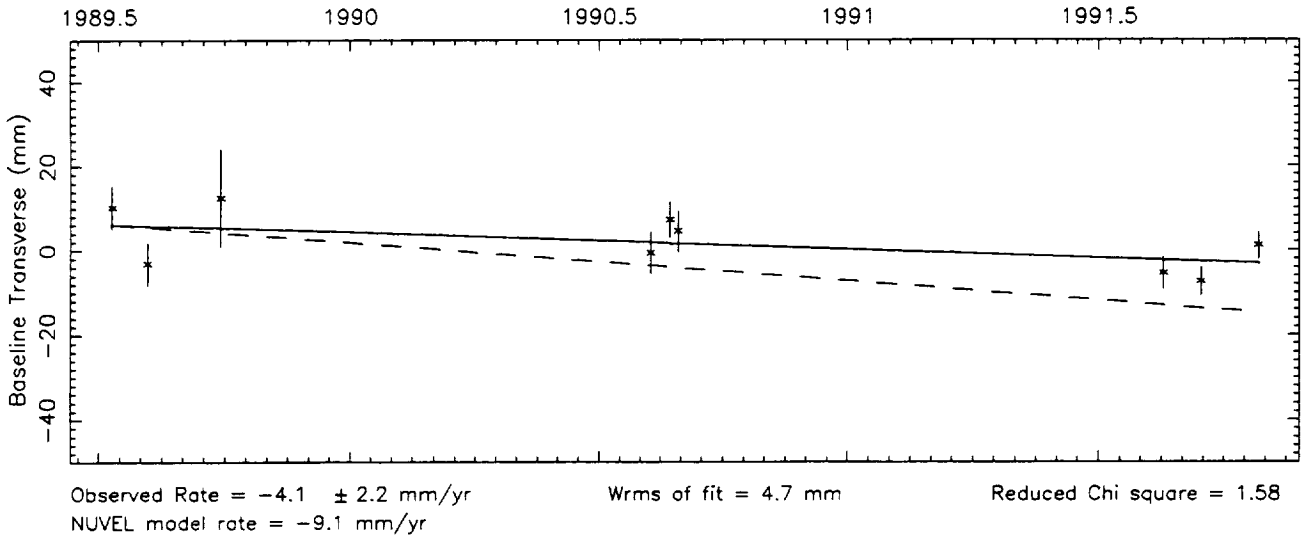
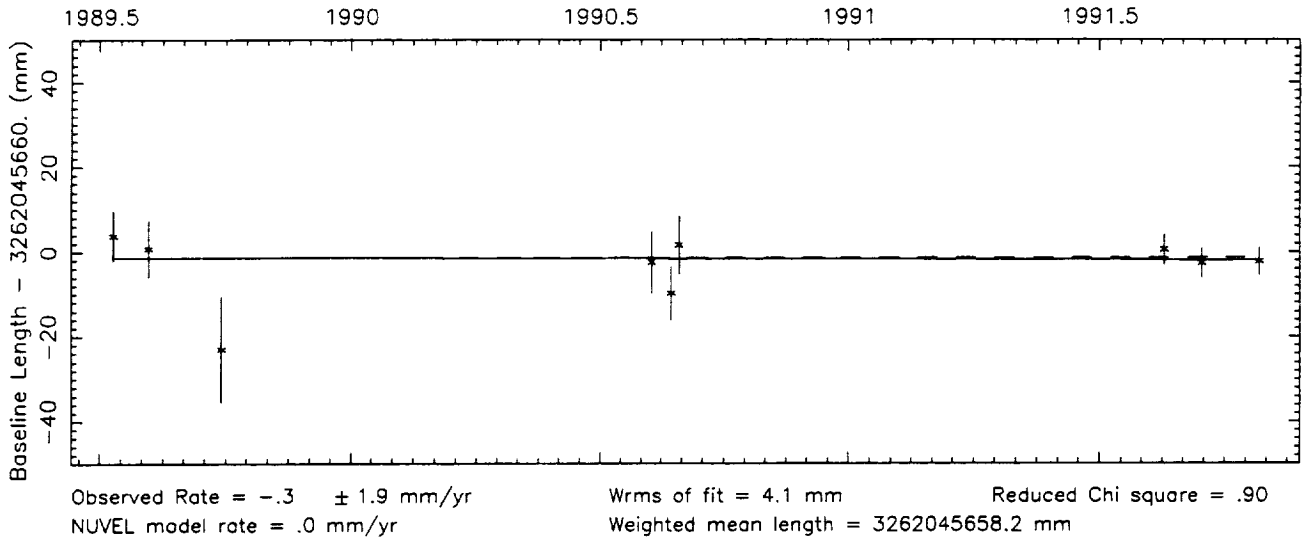
Number of sessions = 10



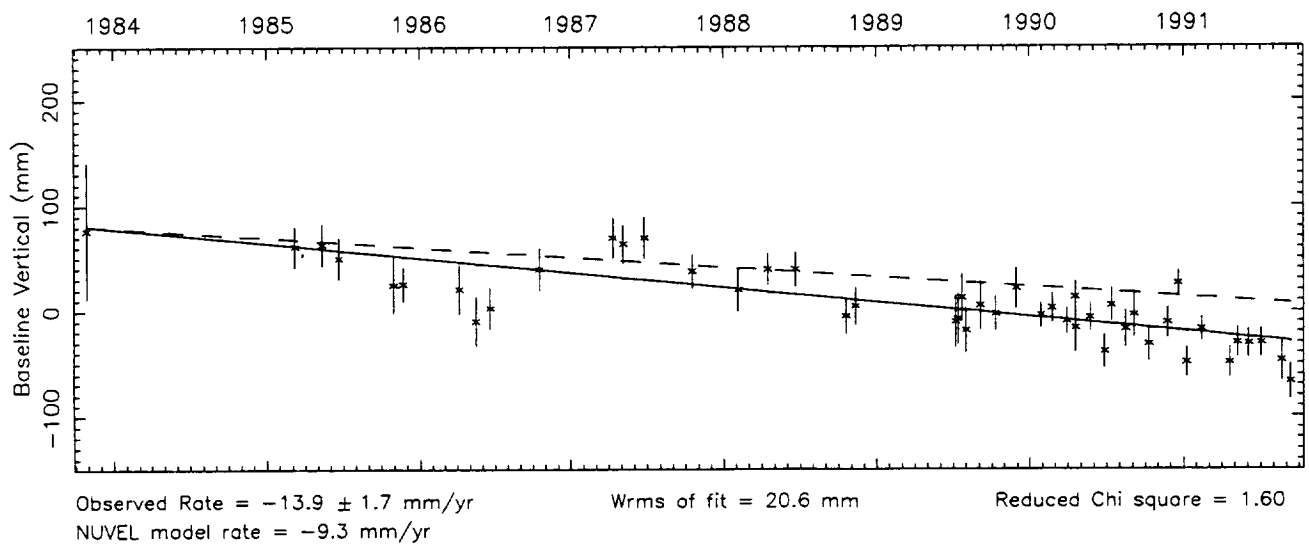
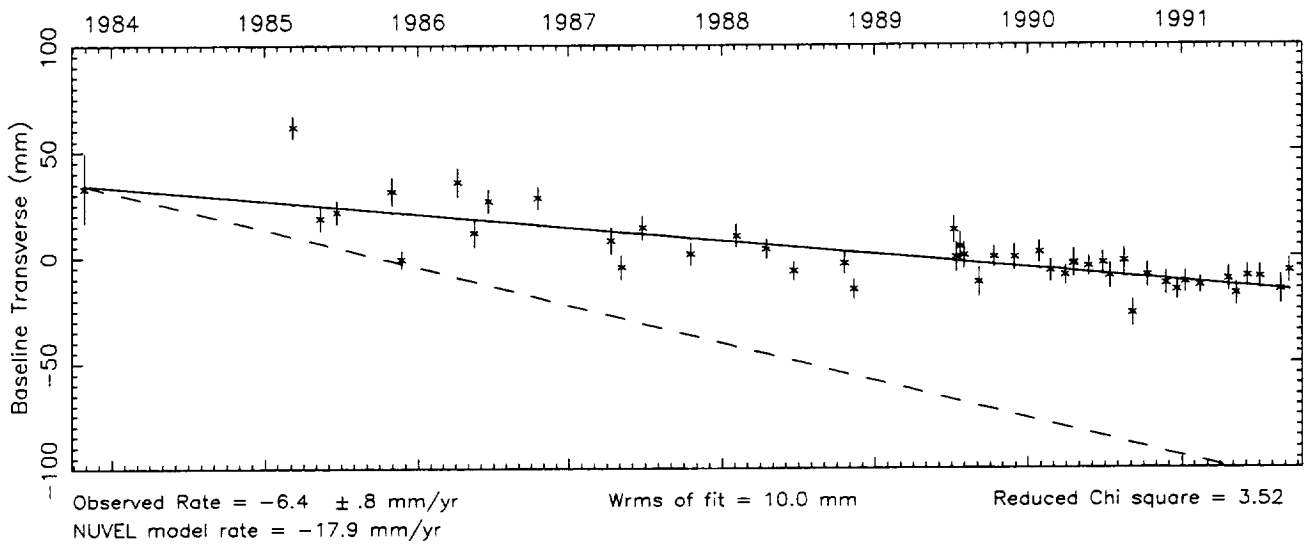
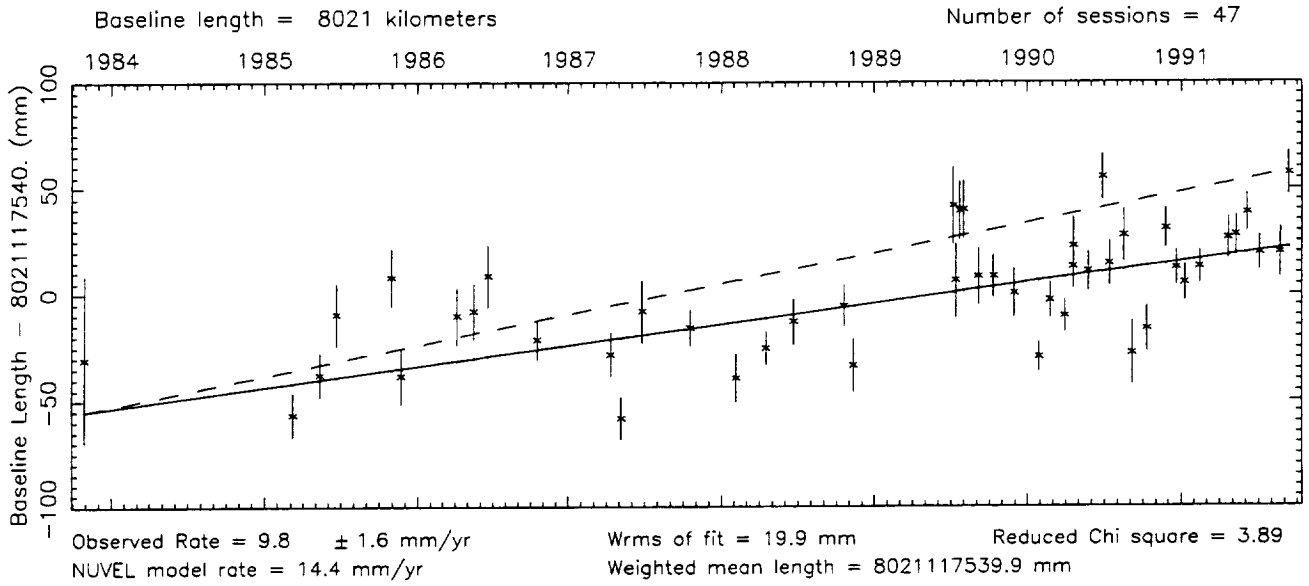
Vector baseline plots for MOJAVE12-NRA085 3

Baseline length = 3262 kilometers

Number of sessions = 9



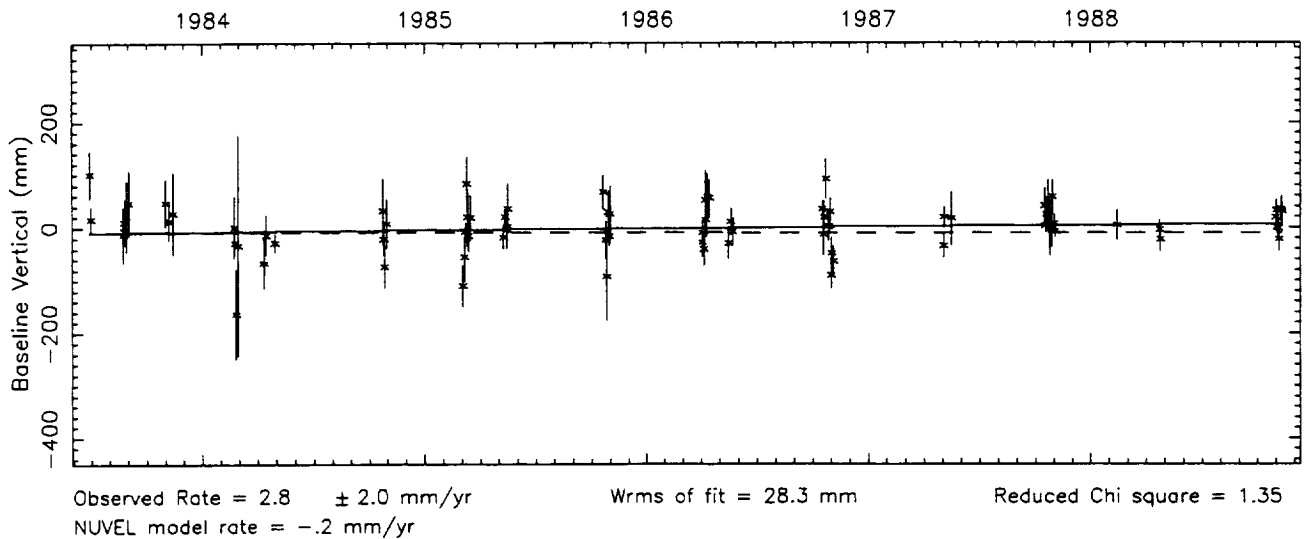
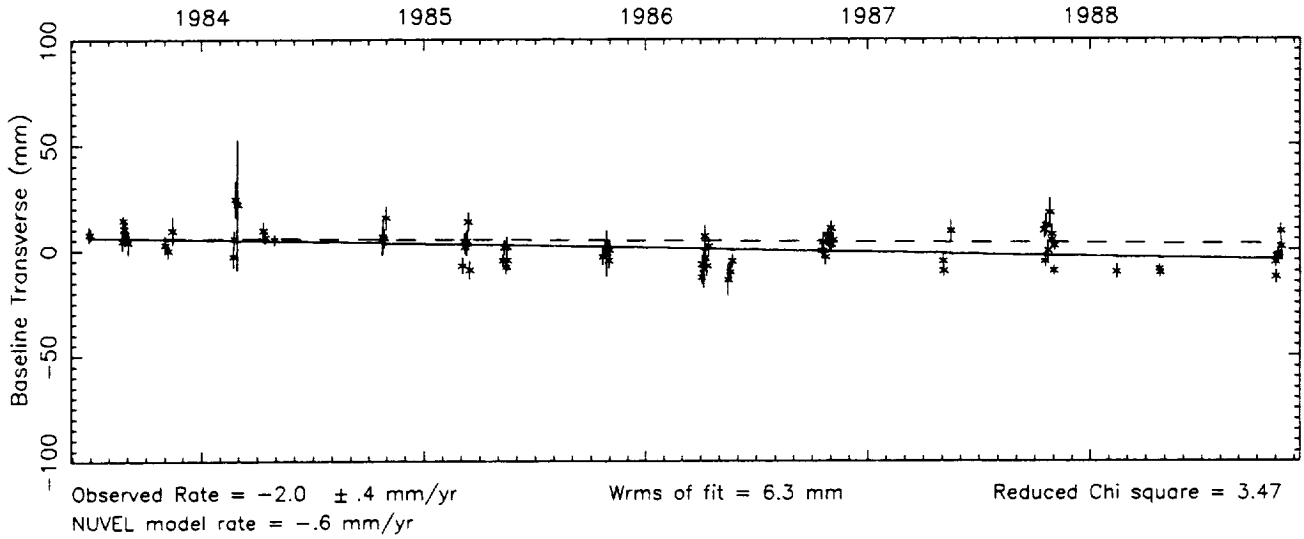
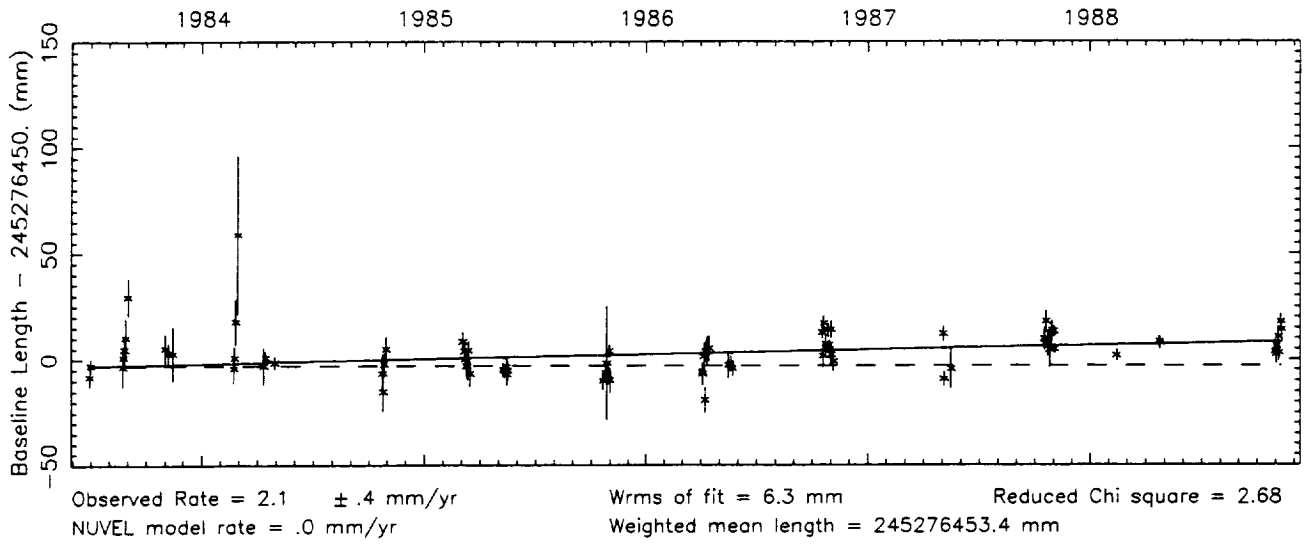
Vector baseline plots for MOJAVE12-ONSALA60



Vector baseline plots for MOJAVE12-OVRO 130

Baseline length = 245 kilometers

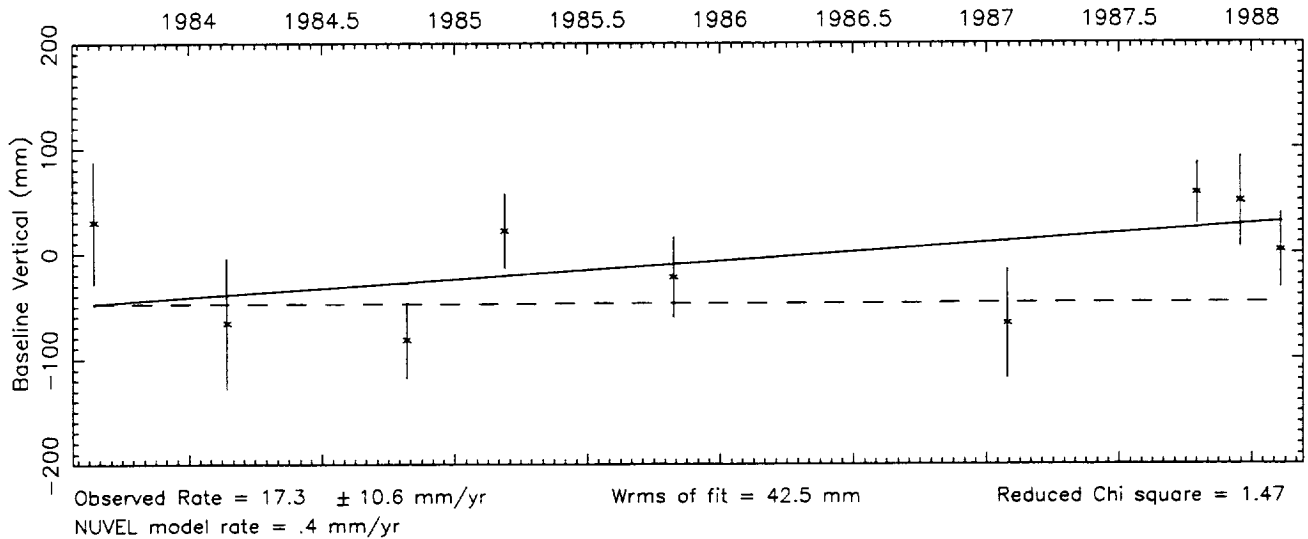
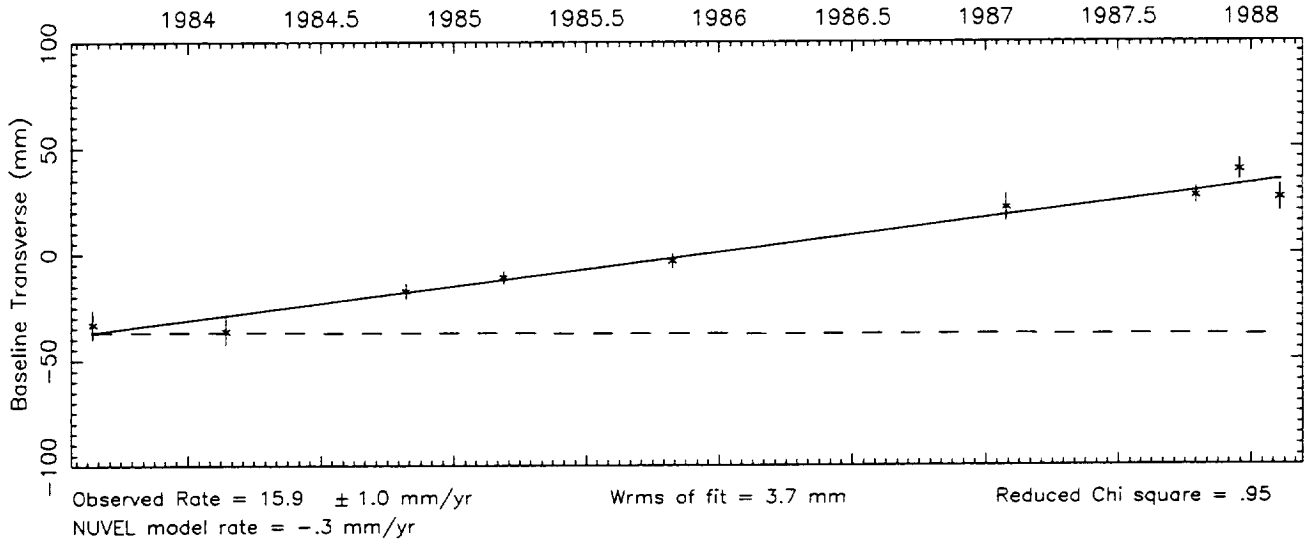
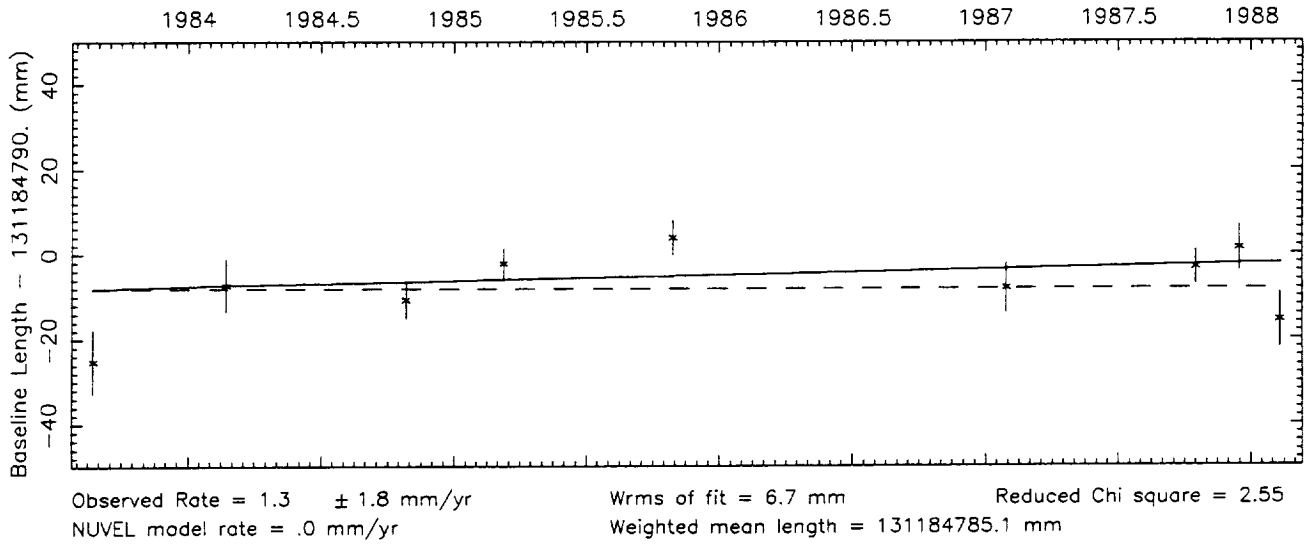
Number of sessions = 81



Vector baseline plots for MOJAVE12-PBLOSSOM

Baseline length = 131 kilometers

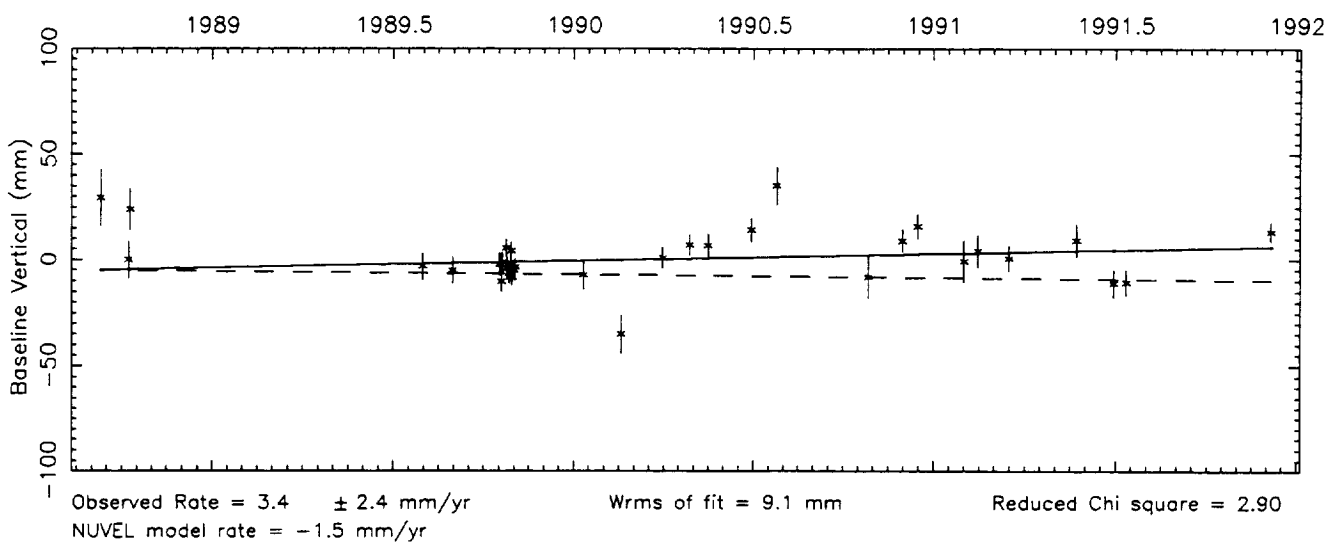
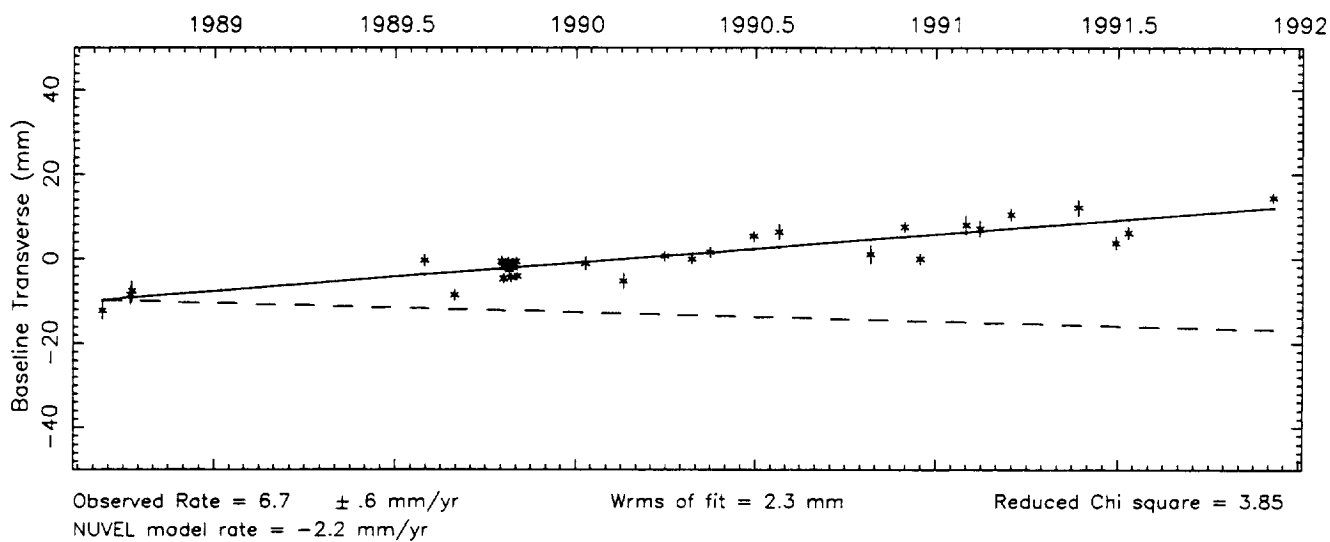
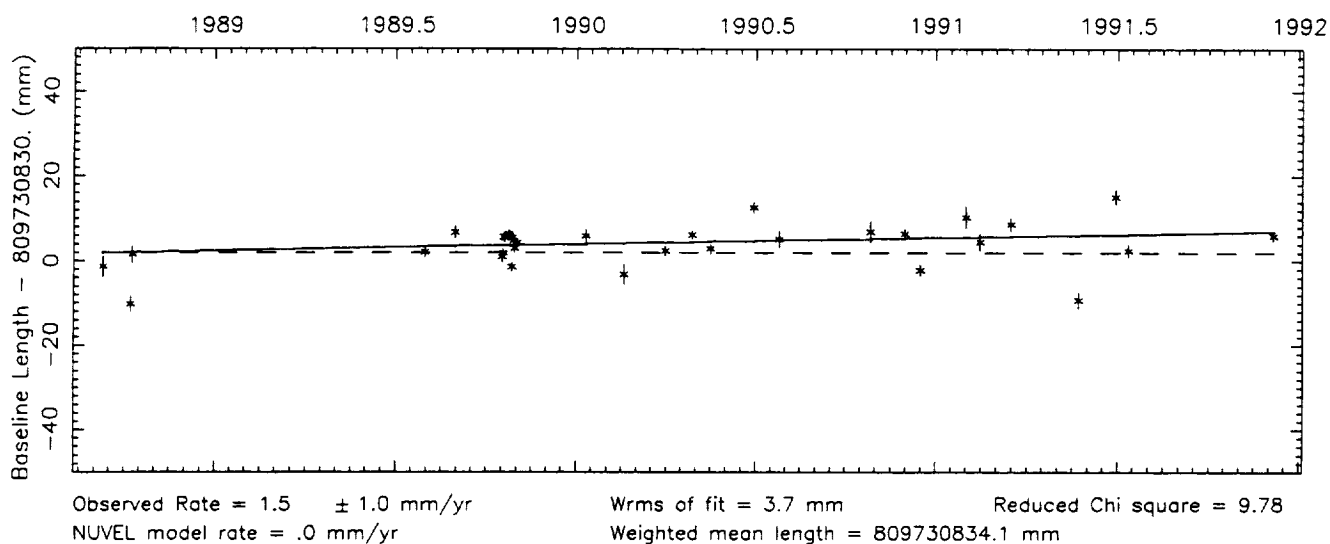
Number of sessions = 9



Vector baseline plots for MOJAVE12-PIETOWN

Baseline length = 810 kilometers

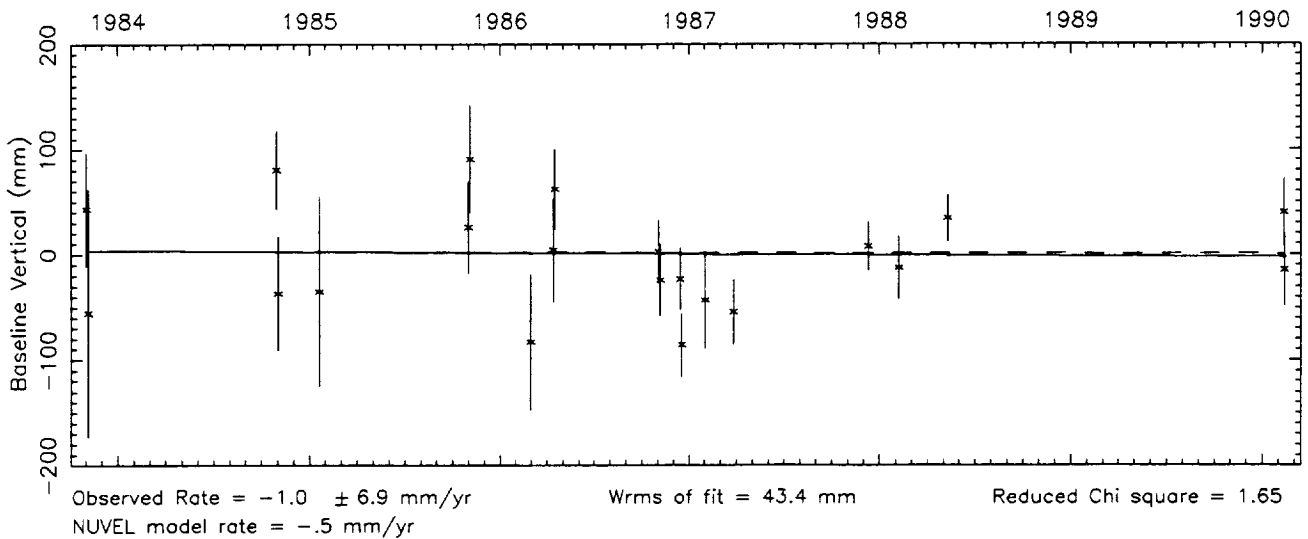
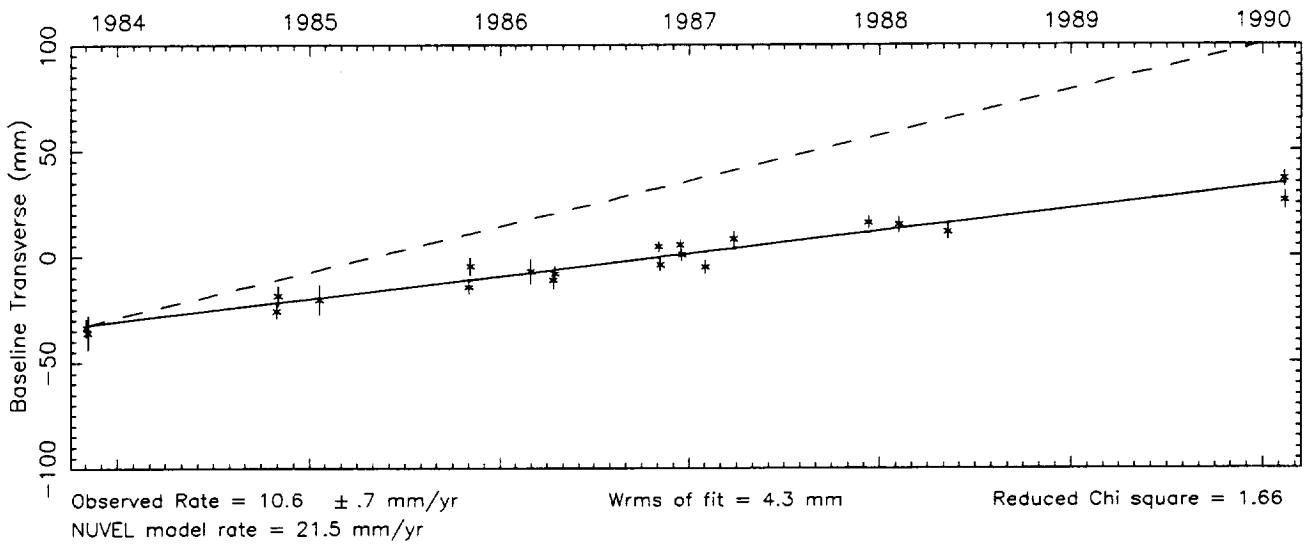
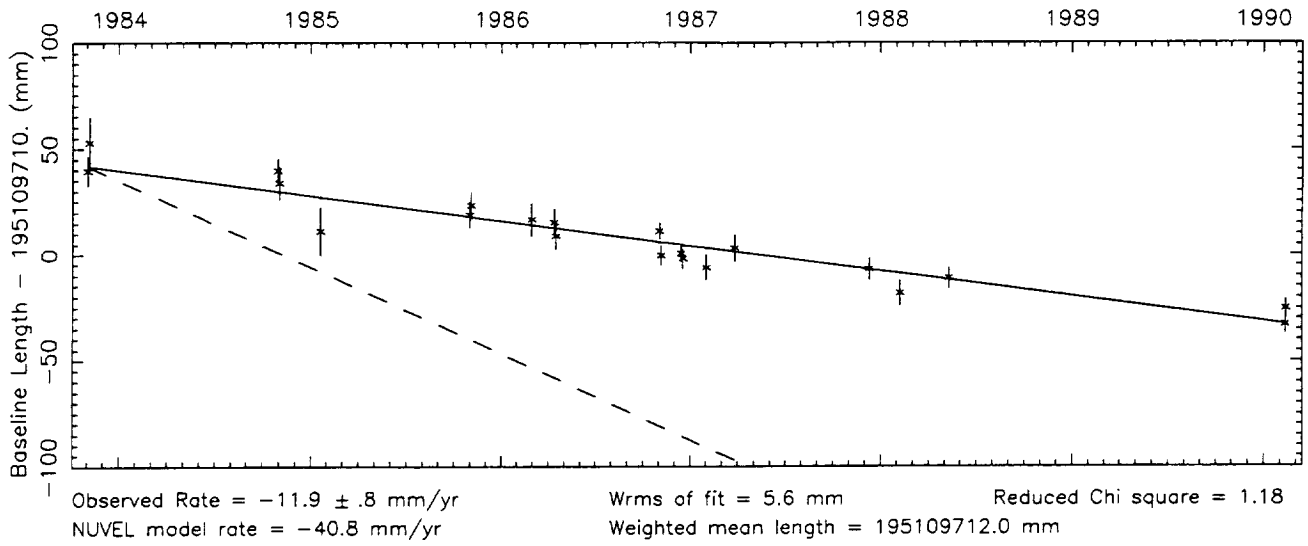
Number of sessions = 34



Vector baseline plots for MOJAVE12-PINFLATS

Baseline length = 195 kilometers

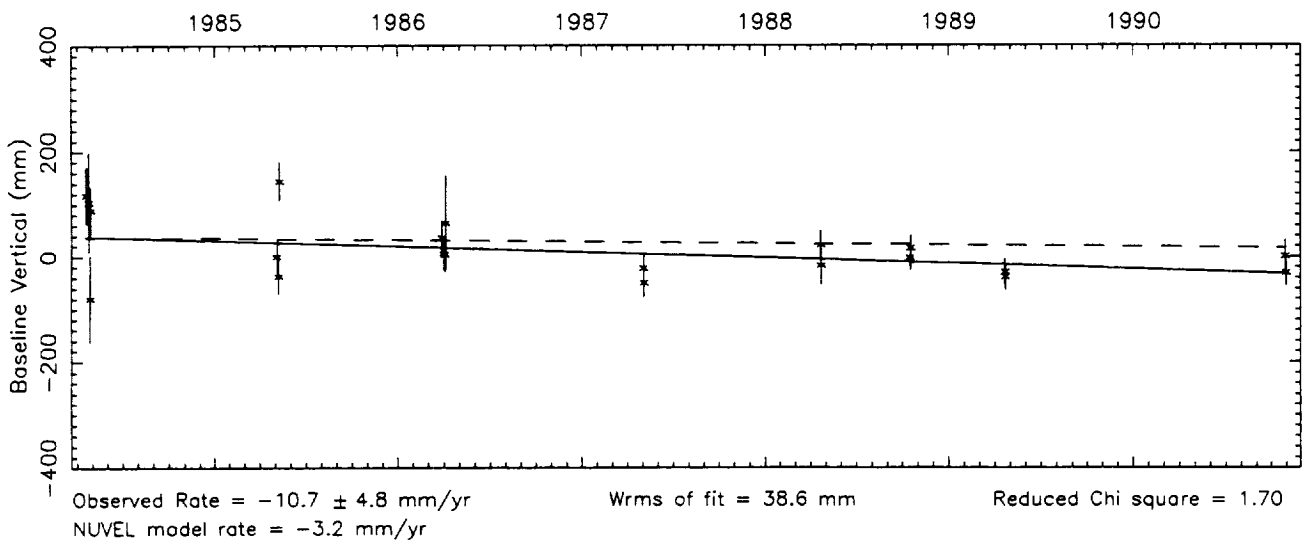
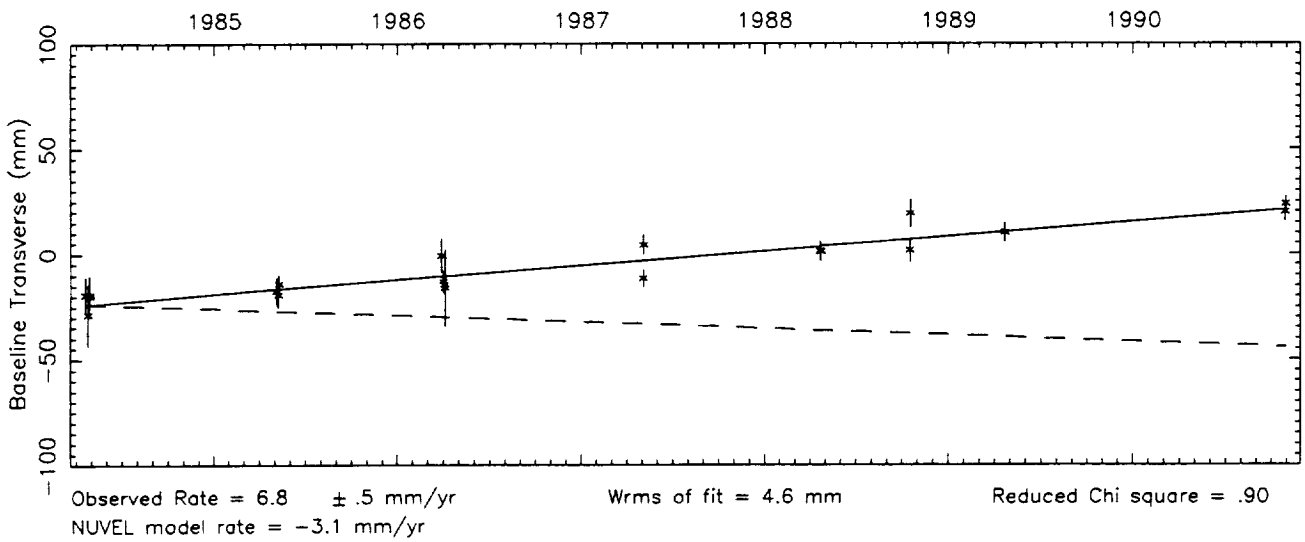
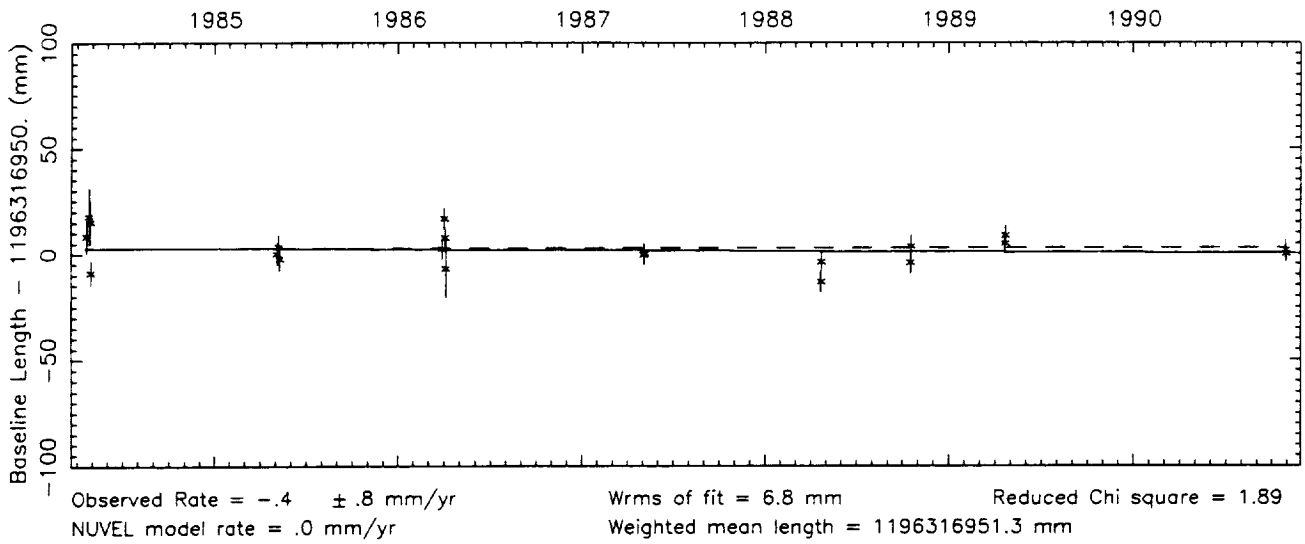
Number of sessions = 21



Vector baseline plots for MOJAVE12-PLATTVIL

Baseline length = 1196 kilometers

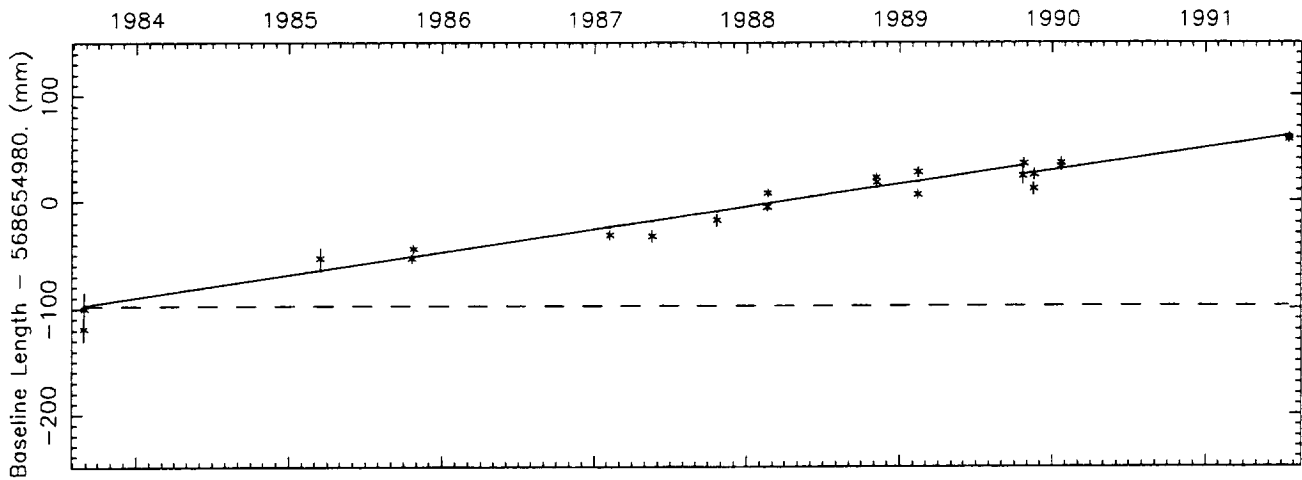
Number of sessions = 21



Vector baseline plots for MOJAVE12-PRESIDIO

Baseline length = 569 kilometers

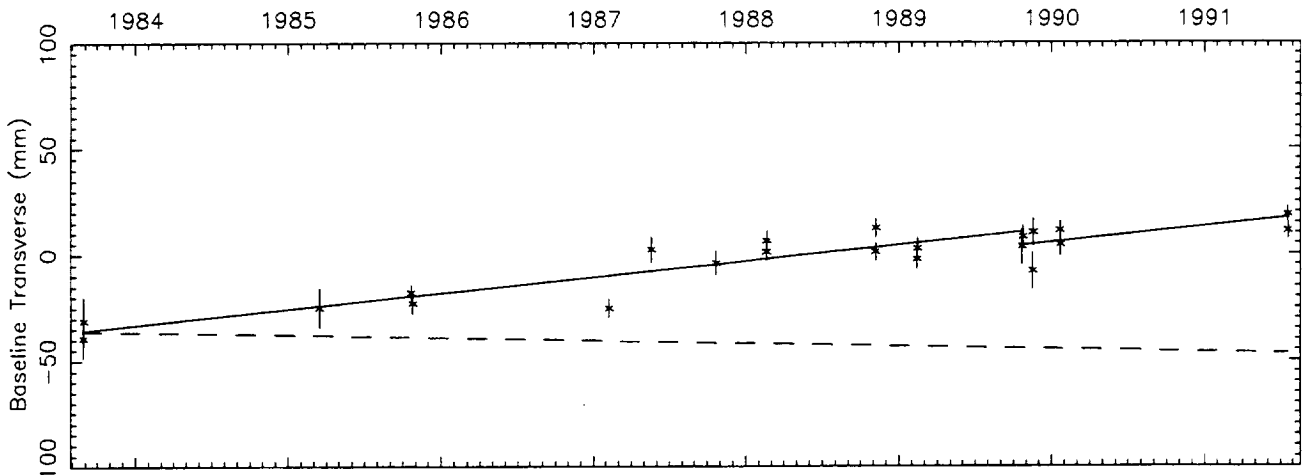
Number of sessions = 22



Observed Rate = 21.3 ± 1.5 mm/yr
 NUVEL model rate = $.0$ mm/yr

Wrms of fit = 7.6 mm
 Weighted mean length = 568654984.7 mm
 Offset = -8.3 ± 5.7 mm

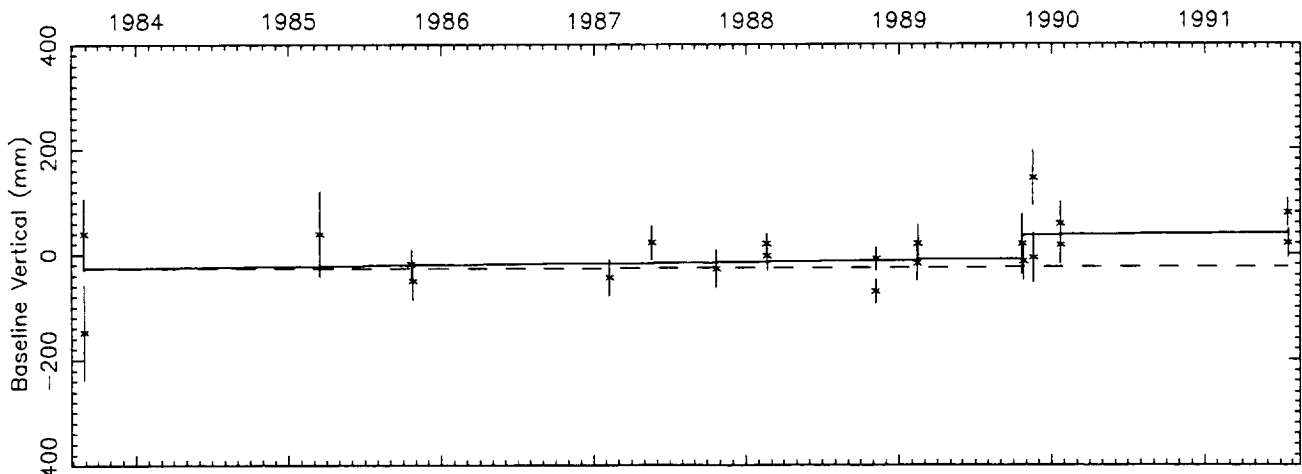
Reduced Chi square = 2.91



Observed Rate = 7.5 ± 1.2 mm/yr
 NUVEL model rate = -1.4 mm/yr

Wrms of fit = 6.4 mm
 Offset = -6.4 ± 4.8 mm

Reduced Chi square = 1.92



Observed Rate = 2.9 ± 7.2 mm/yr
 NUVEL model rate = $.4$ mm/yr

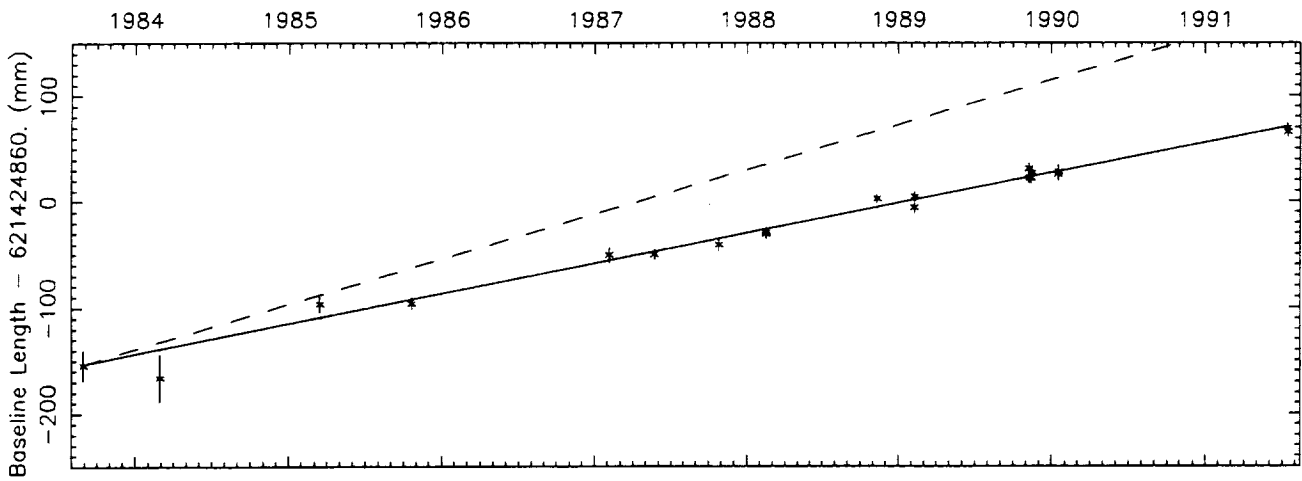
Wrms of fit = 36.3 mm
 Offset = 45.1 ± 27.4 mm

Reduced Chi square = 1.44

Vector baseline plots for MOJAVE12-PT REYES

Baseline length = 621 kilometers

Number of sessions = 20

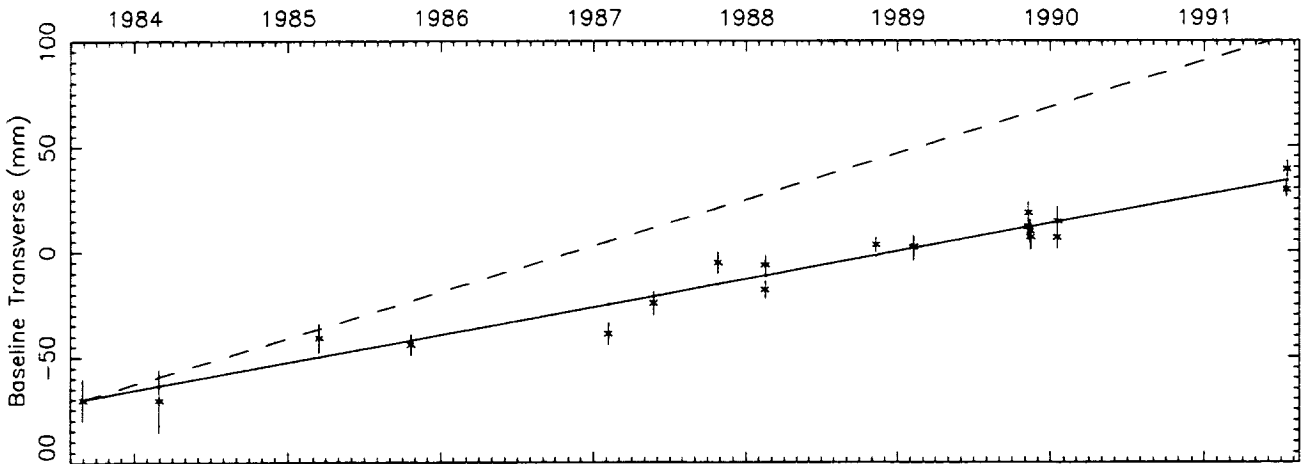


Observed Rate = $28.5 \pm .8$ mm/yr
 NUVEL model rate = 42.3 mm/yr

Wrms of fit = 5.3 mm

Reduced Chi square = 1.26

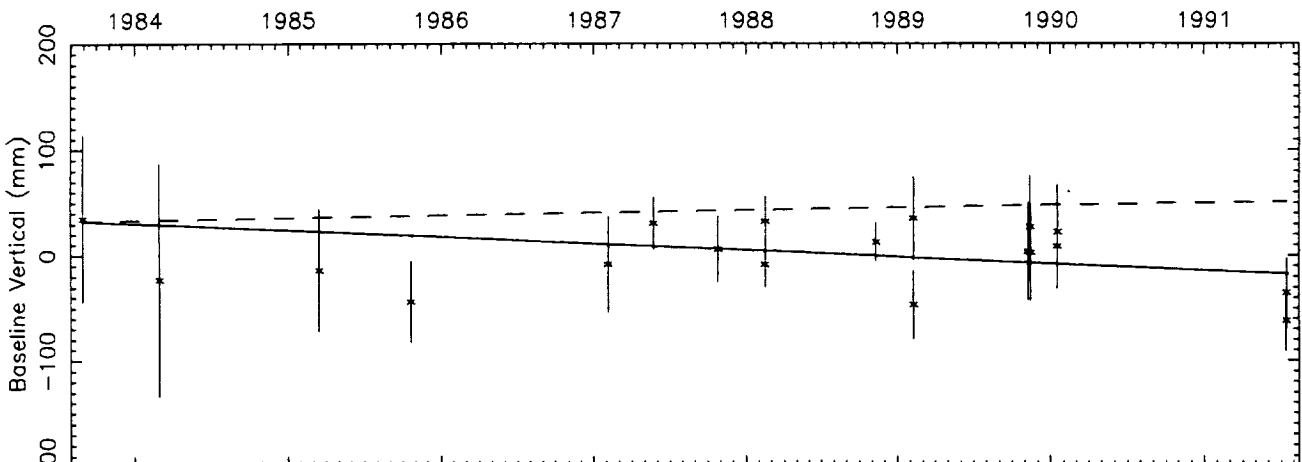
Weighted mean length = 621424857.7 mm



Observed Rate = $13.2 \pm .8$ mm/yr
 NUVEL model rate = 21.9 mm/yr

Wrms of fit = 5.9 mm

Reduced Chi square = 1.50



Observed Rate = -6.4 ± 4.1 mm/yr
 NUVEL model rate = 2.4 mm/yr

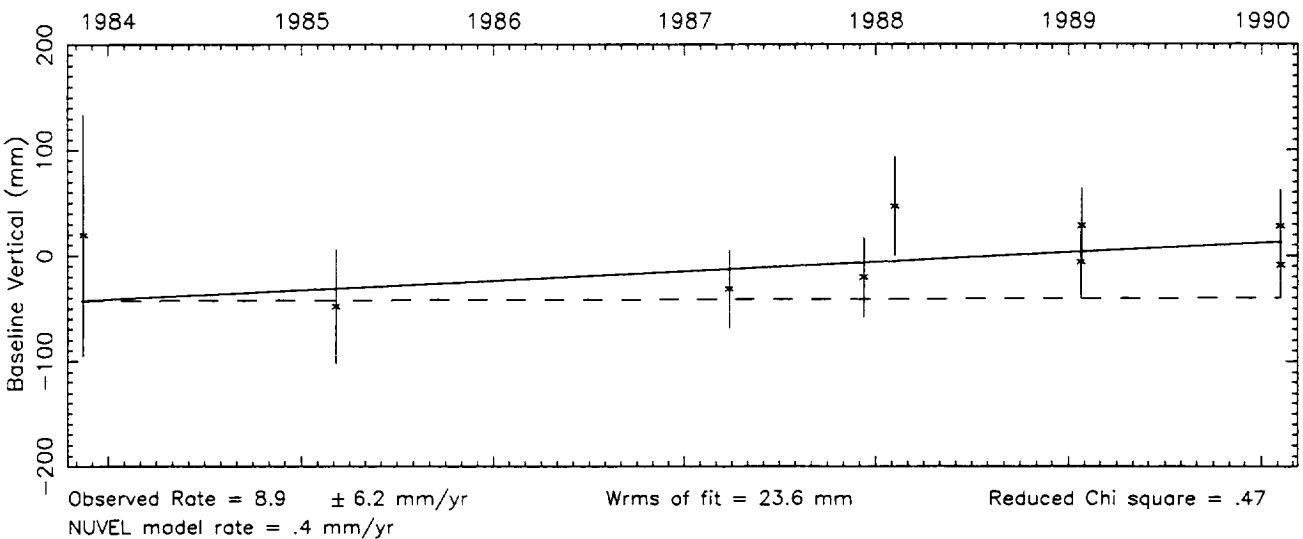
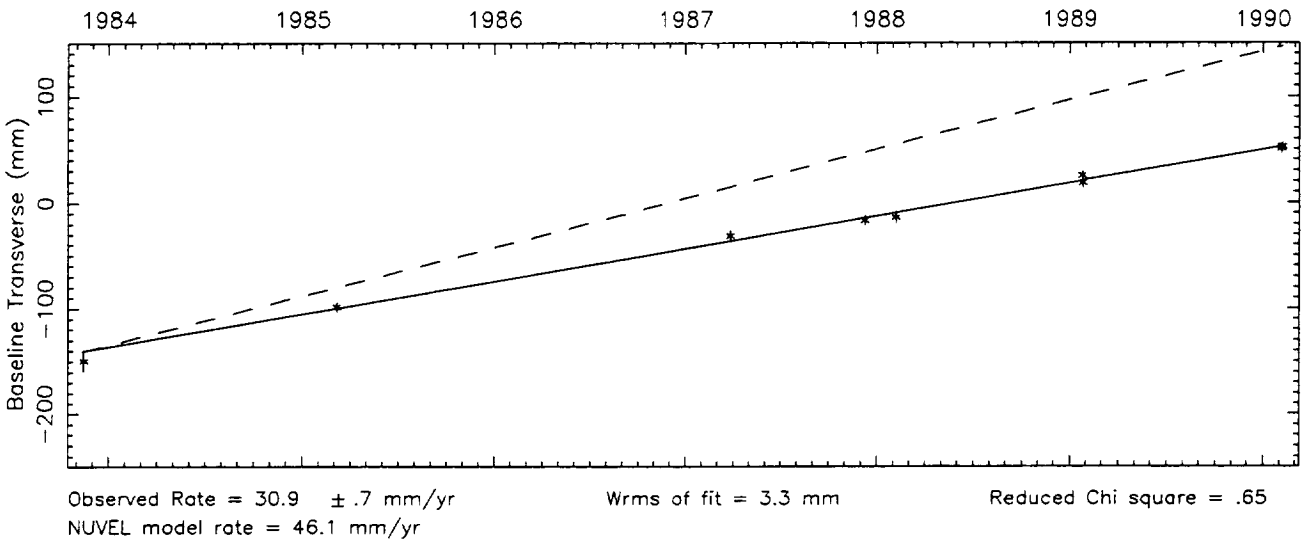
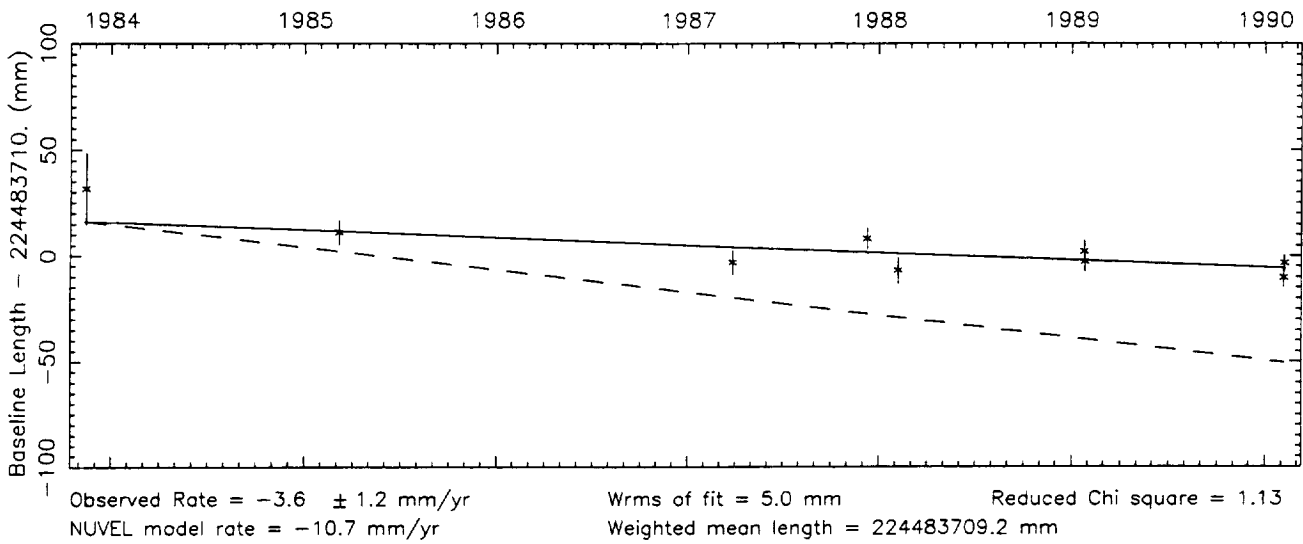
Wrms of fit = 27.1 mm

Reduced Chi square = .74

Vector baseline plots for MOJAVE12-PVERDES

Baseline length = 224 kilometers

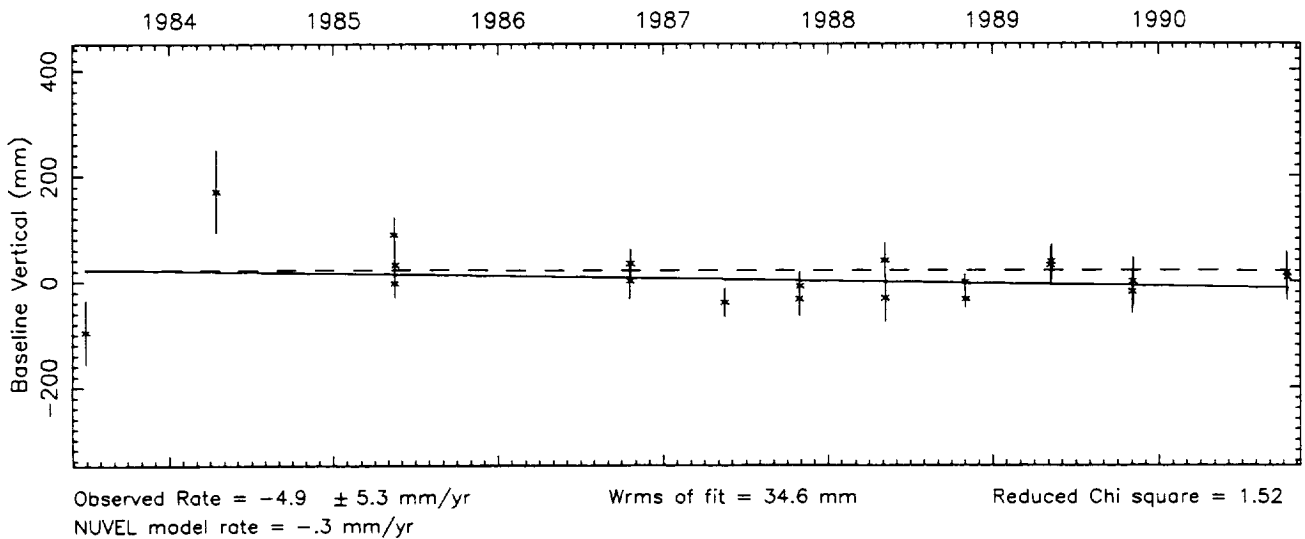
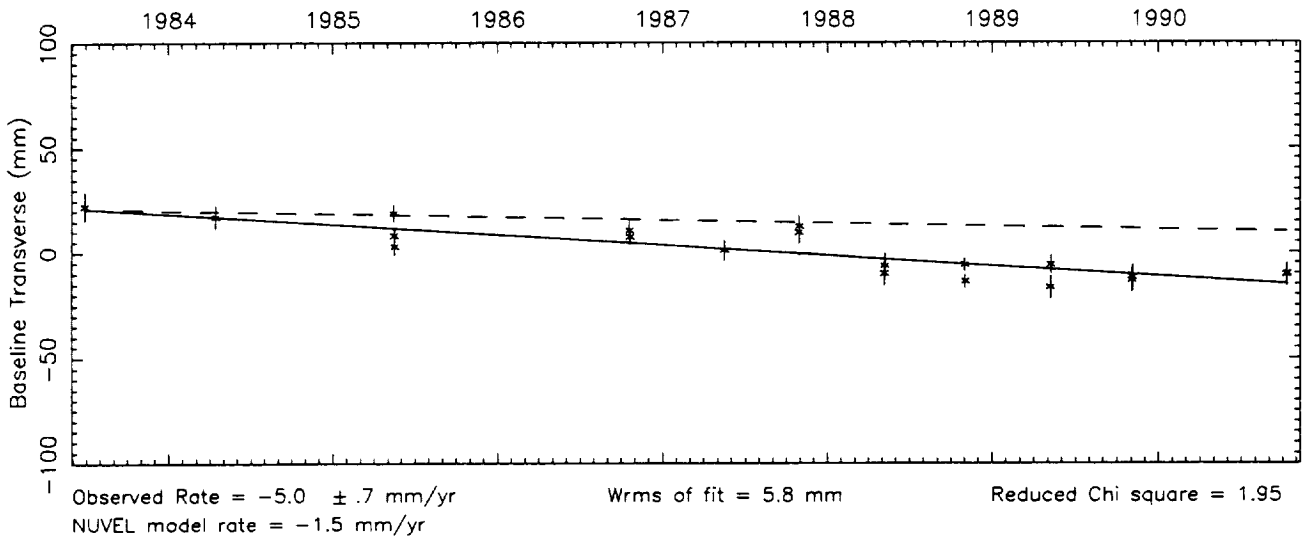
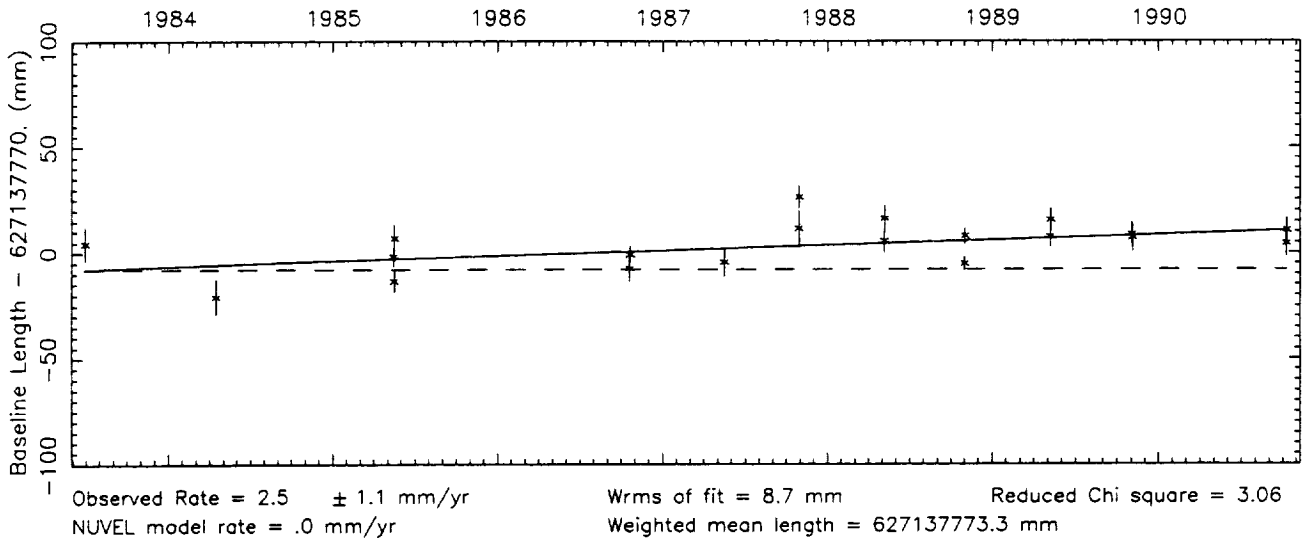
Number of sessions = 9



Vector baseline plots for MOJAVE12-QUINCY

Baseline length = 627 kilometers

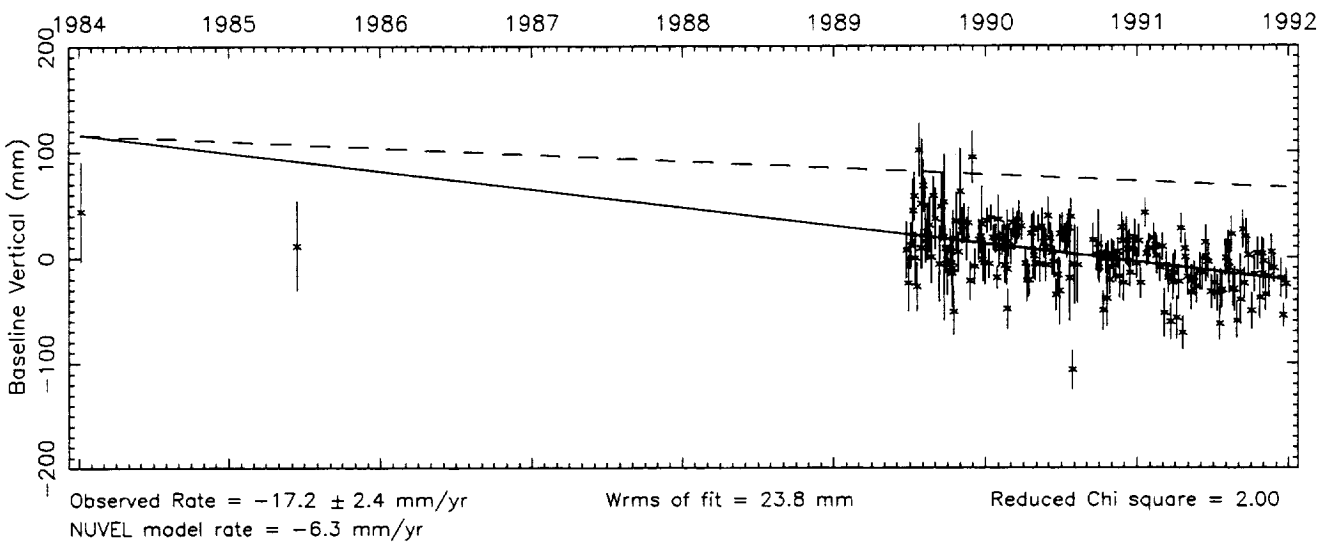
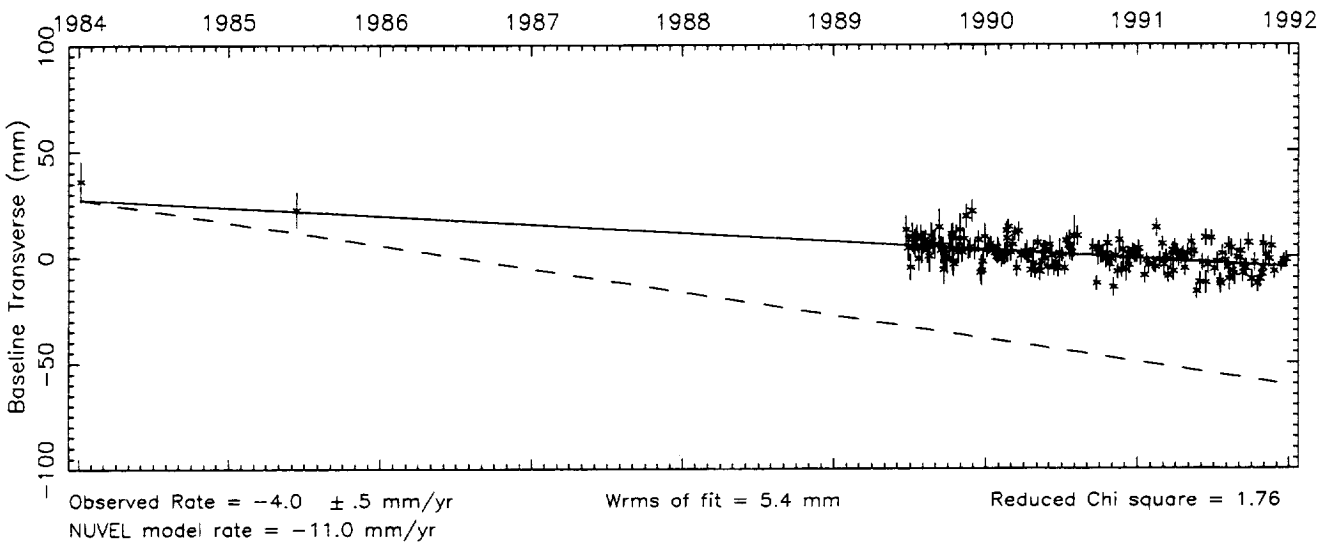
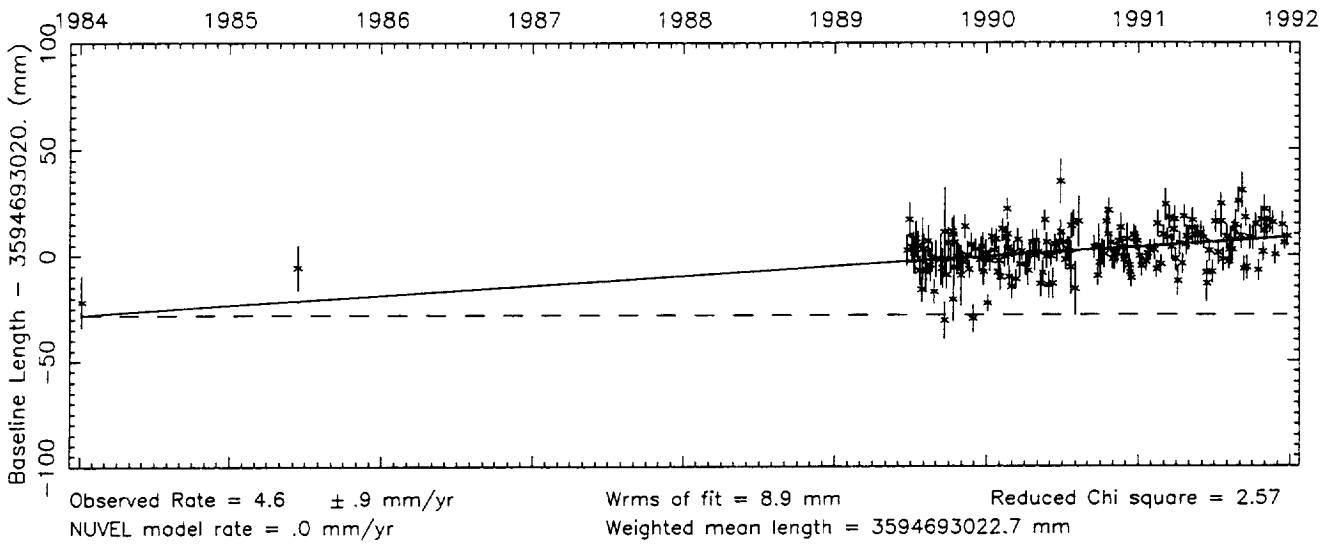
Number of sessions = 20



Vector baseline plots for MOJAVE12-RICHMOND

Baseline length = 3595 kilometers

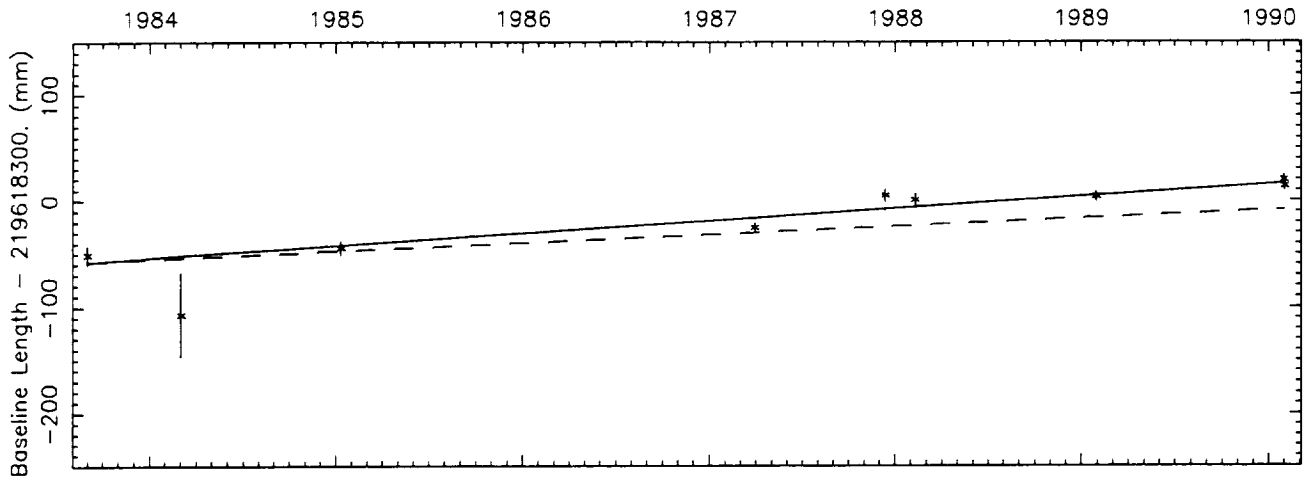
Number of sessions = 191



Vector baseline plots for MOJAVE12-SANPAULA

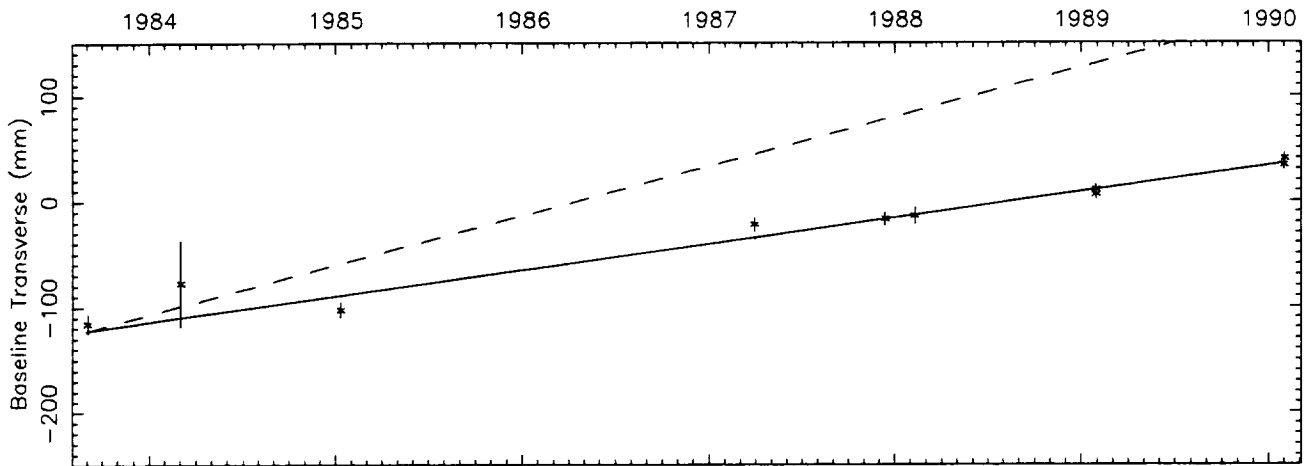
Baseline length = 220 kilometers

Number of sessions = 10



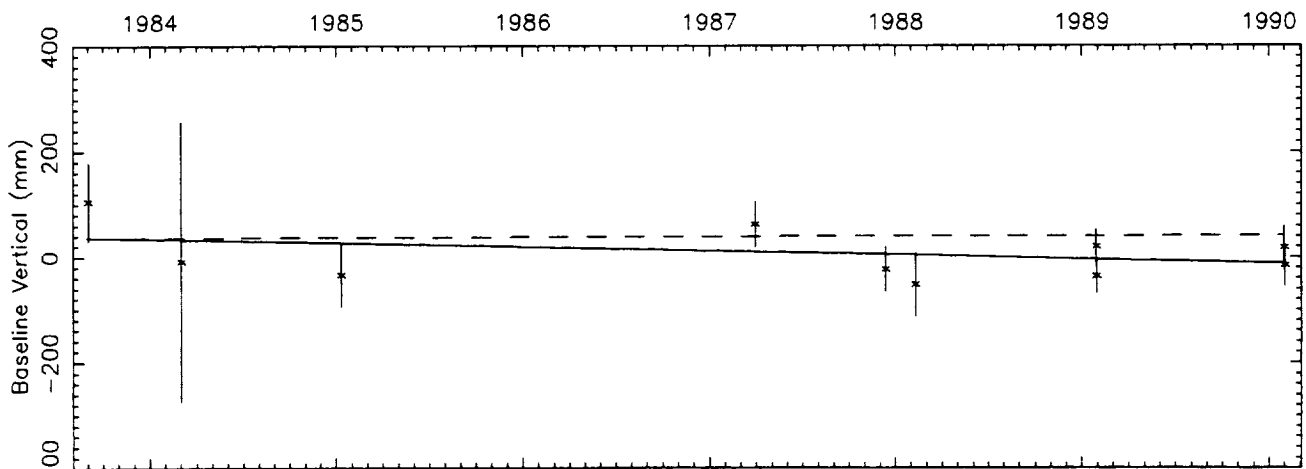
Observed Rate = 11.5 ± 1.3 mm/yr
 NUVEL model rate = 7.7 mm/yr

Wrms of fit = 5.9 mm
 Reduced Chi square = 1.65
 Weighted mean length = 219618298.8 mm



Observed Rate = 24.6 ± 1.3 mm/yr
 NUVEL model rate = 46.7 mm/yr

Wrms of fit = 5.9 mm
 Reduced Chi square = 1.38



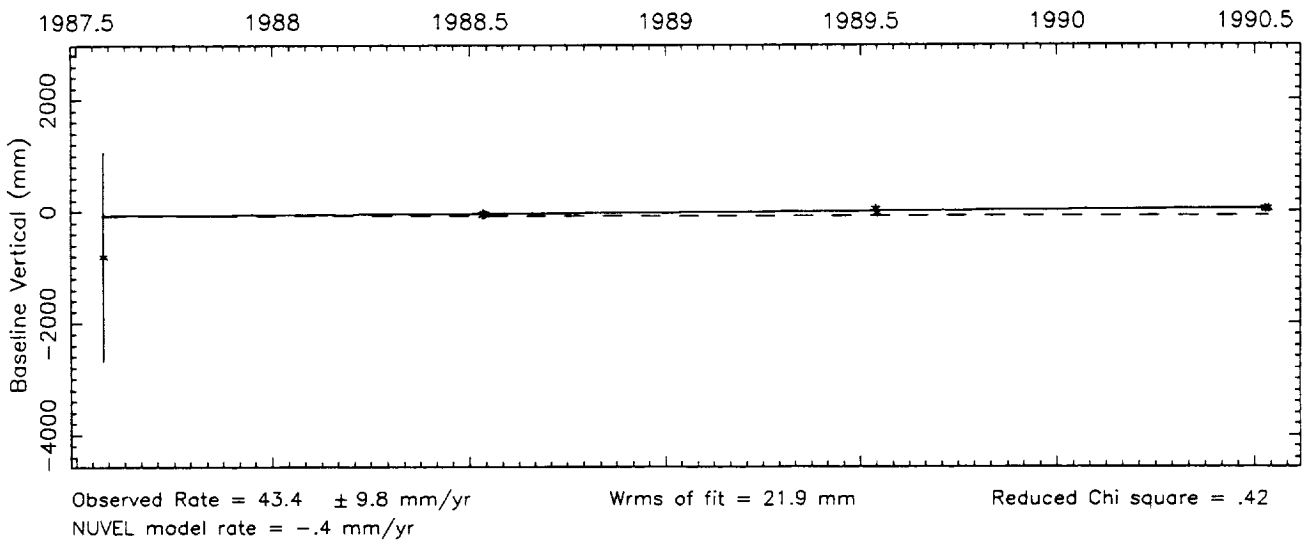
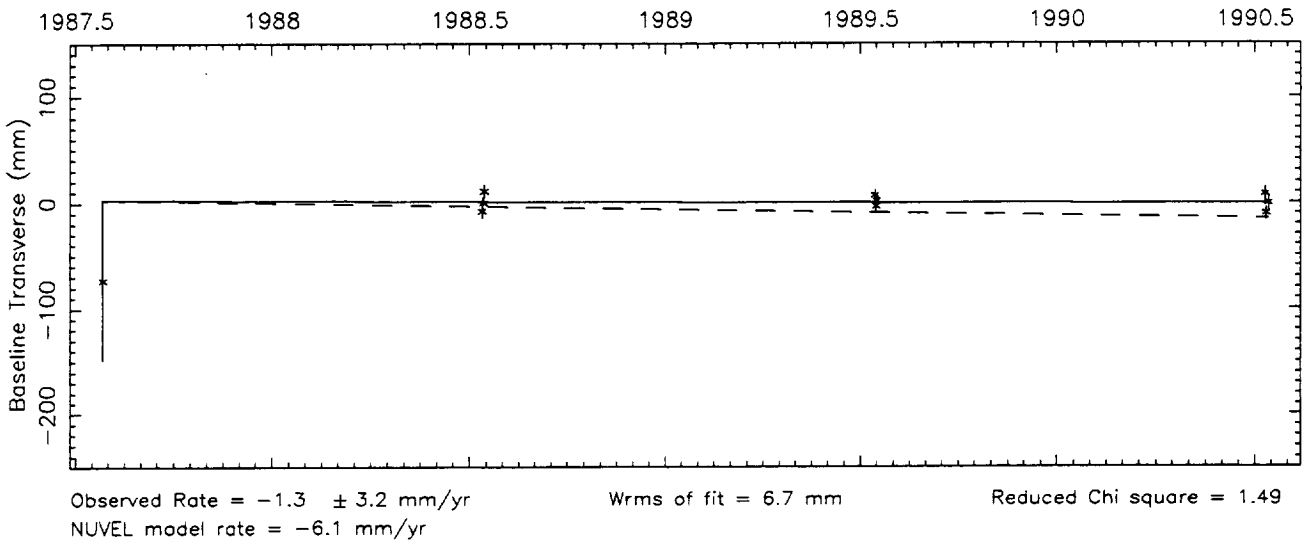
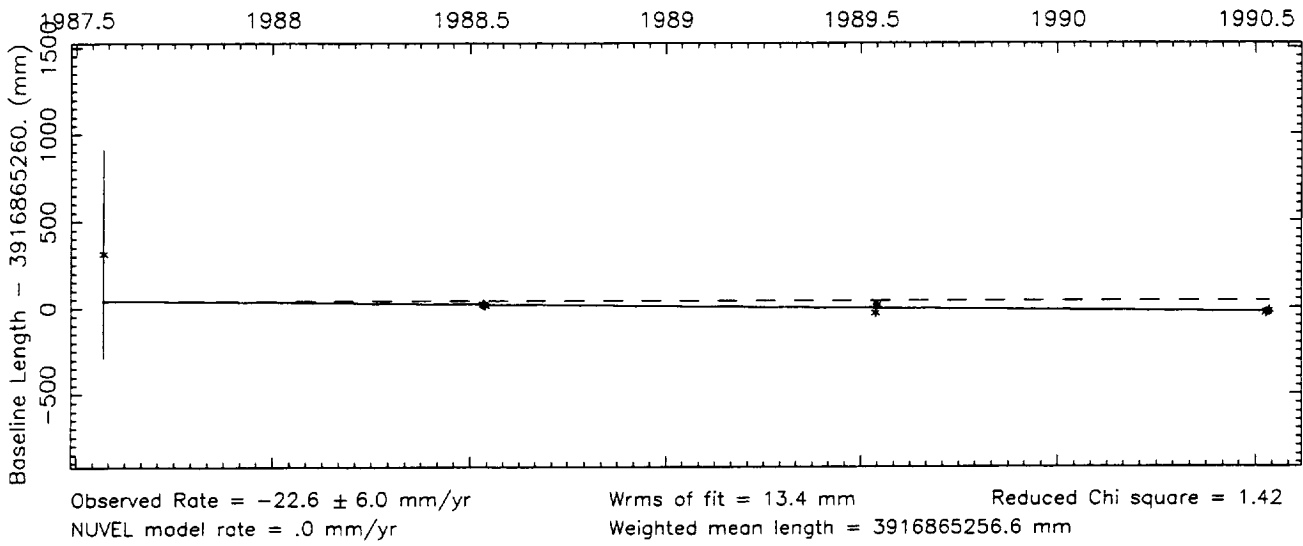
Observed Rate = -7.5 ± 8.2 mm/yr
 NUVEL model rate = .7 mm/yr

Wrms of fit = 36.9 mm
 Reduced Chi square = .86

Vector baseline plots for MOJAVE12-SNDPOINT

Baseline length = 3917 kilometers

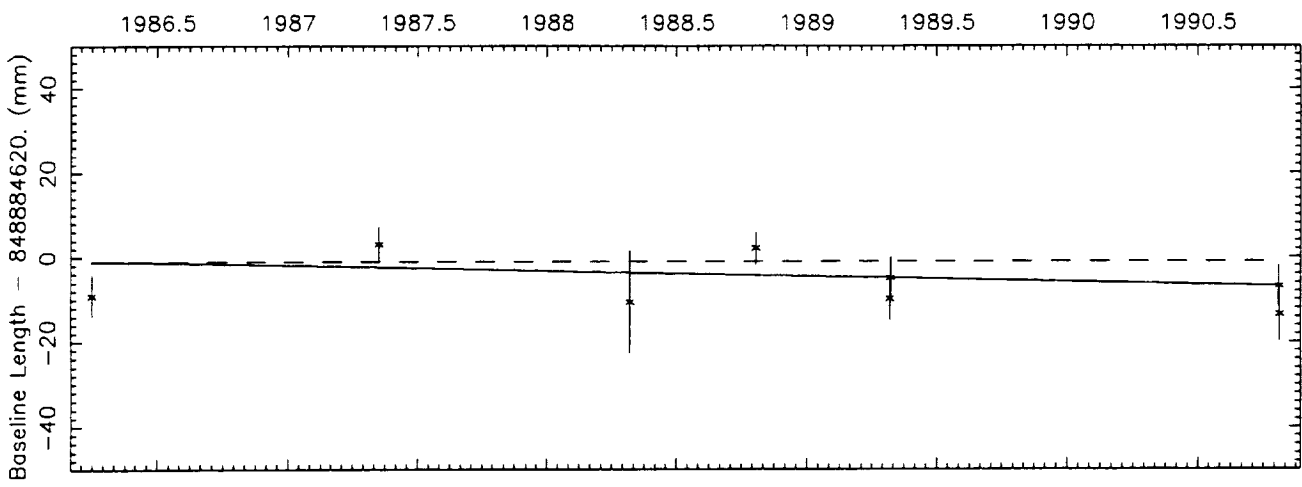
Number of sessions = 10



Vector baseline plots for MOJAVE12-VERNAL

Baseline length = 849 kilometers

Number of sessions = 8

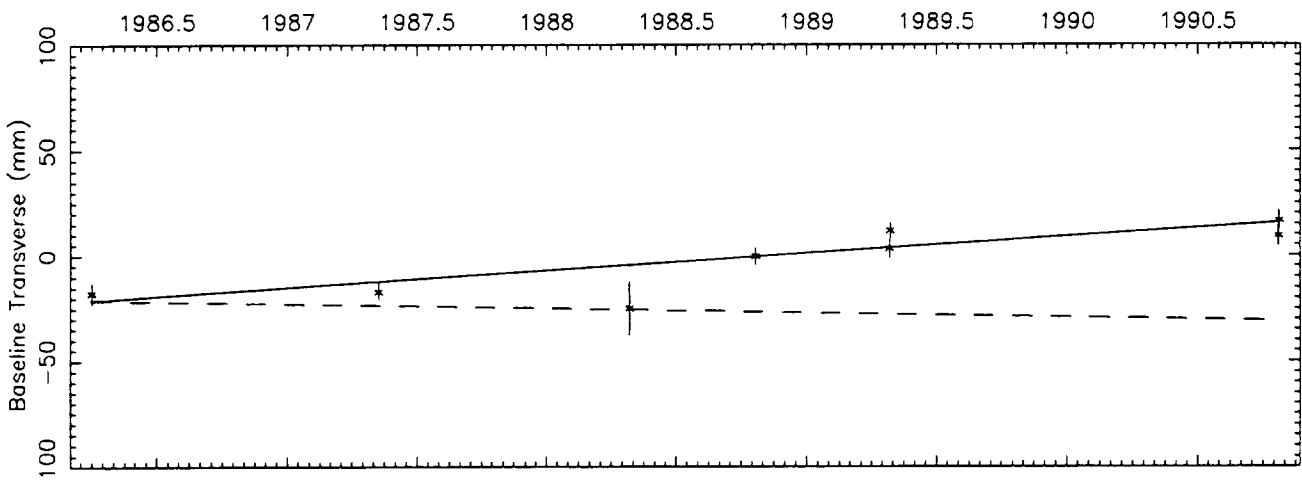


Observed Rate = -1.3 ± 1.5 mm/yr
 NUVEL model rate = $.0$ mm/yr

Wrms of fit = 5.5 mm

Reduced Chi square = 1.64

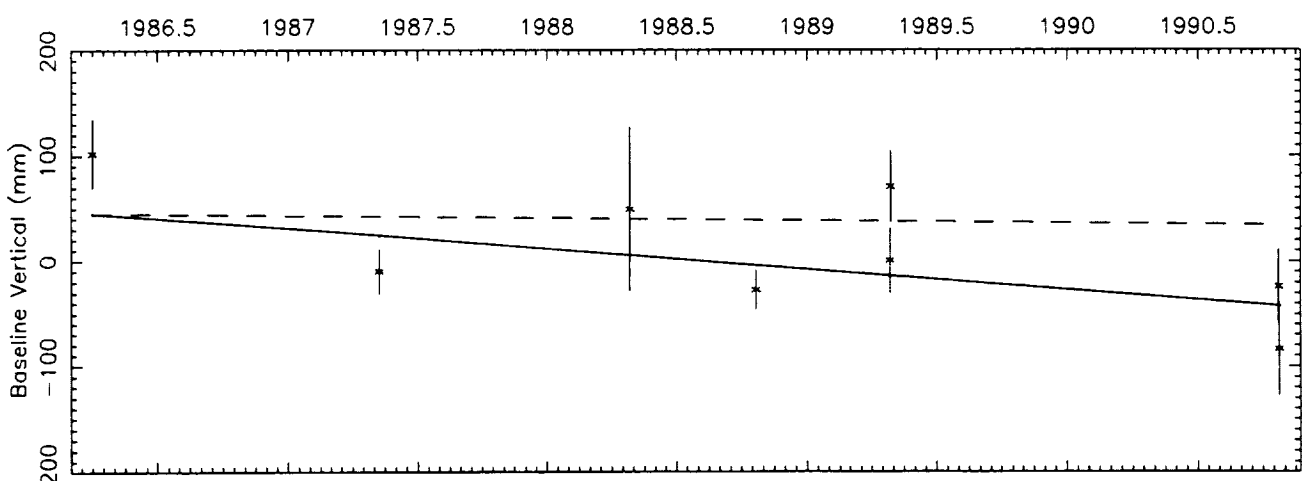
Weighted mean length = 848884615.7 mm



Observed Rate = 8.1 ± 1.6 mm/yr
 NUVEL model rate = -2.2 mm/yr

Wrms of fit = 5.5 mm

Reduced Chi square = 1.95



Observed Rate = -19.2 ± 12.4 mm/yr
 NUVEL model rate = -2.4 mm/yr

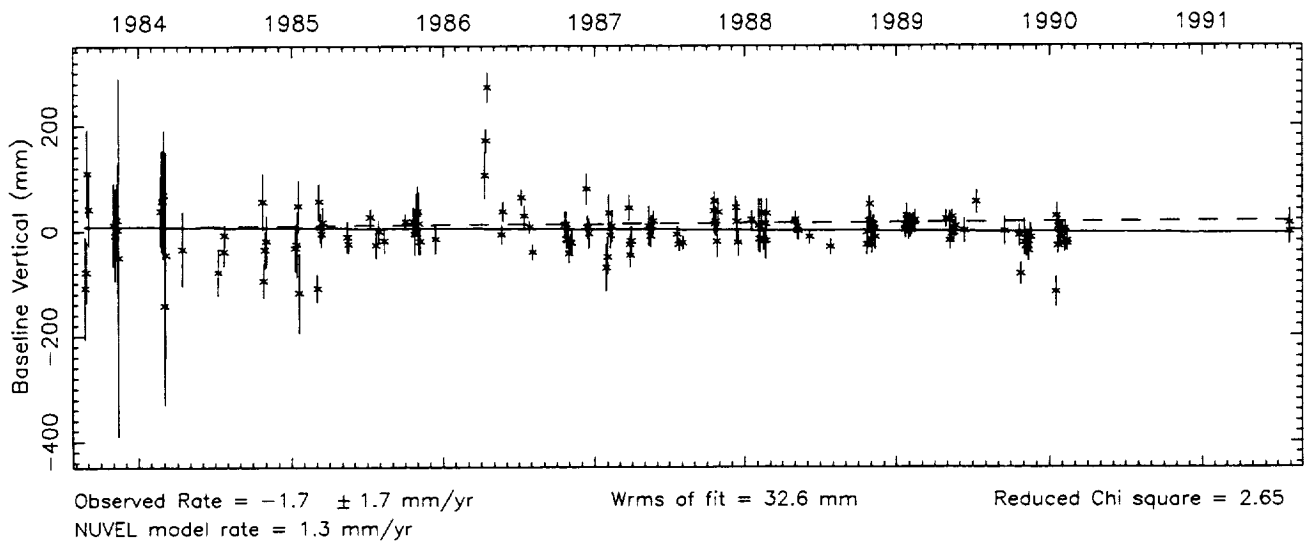
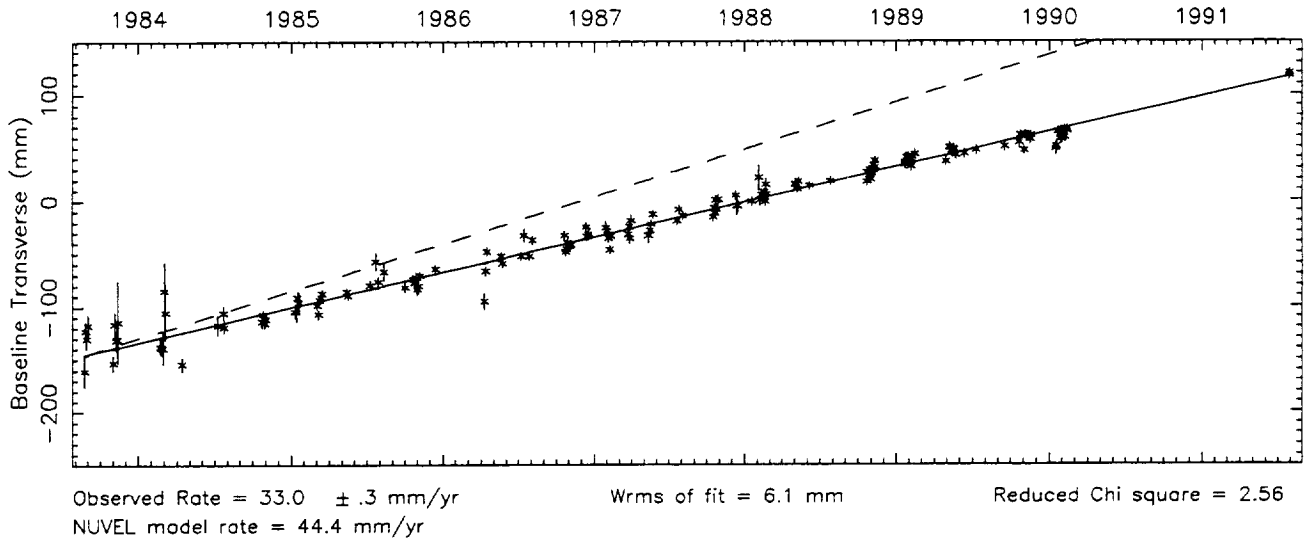
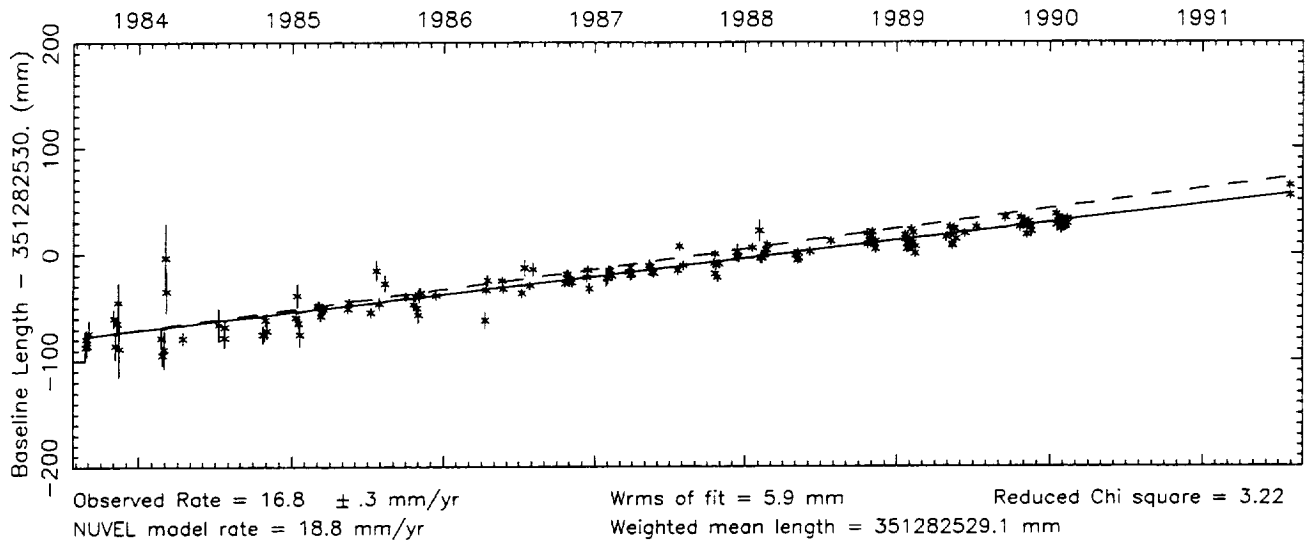
Wrms of fit = 39.5 mm

Reduced Chi square = 2.52

Vector baseline plots for MOJAVE12-VNDNBERG

Baseline length = 351 kilometers

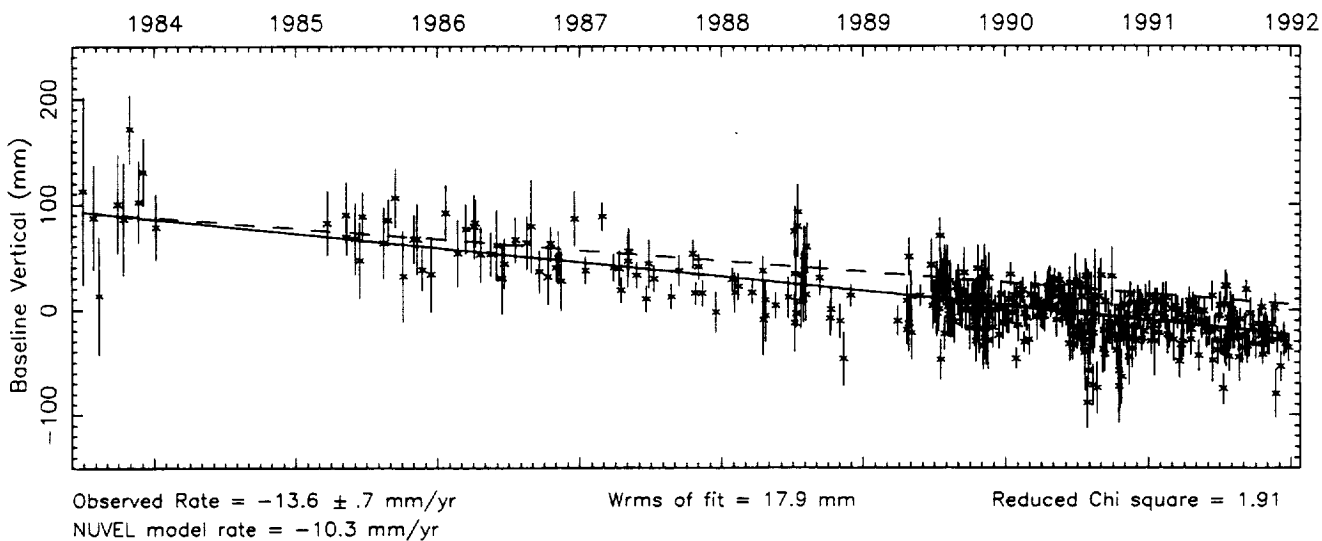
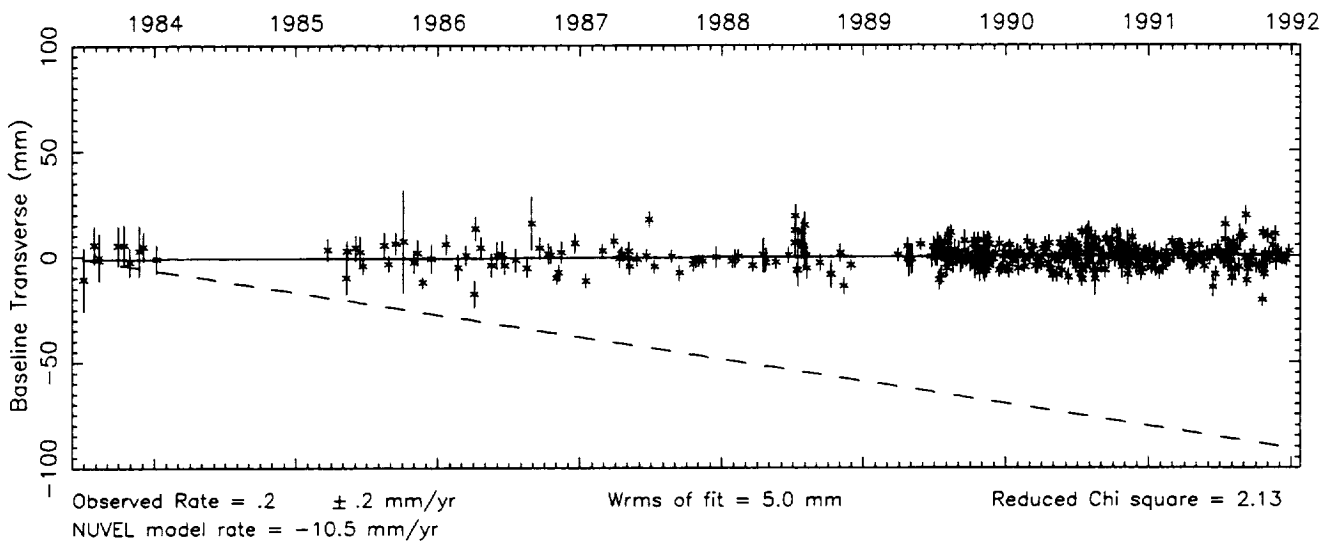
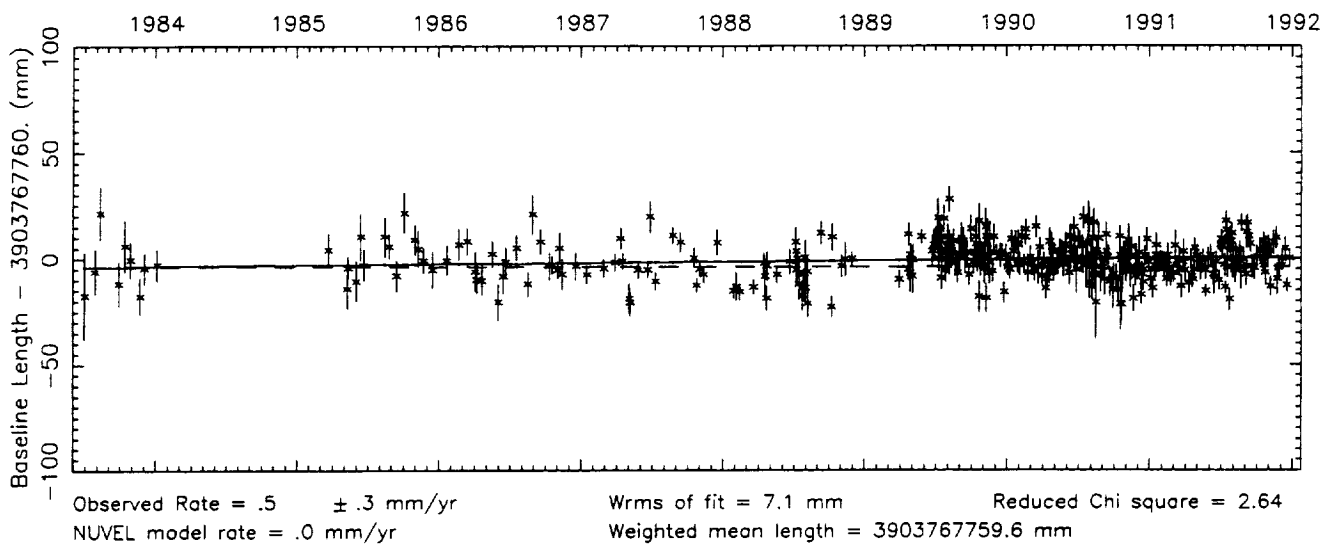
Number of sessions = 163



Vector baseline plots for MOJAVE12–WESTFORD

Baseline length = 3904 kilometers

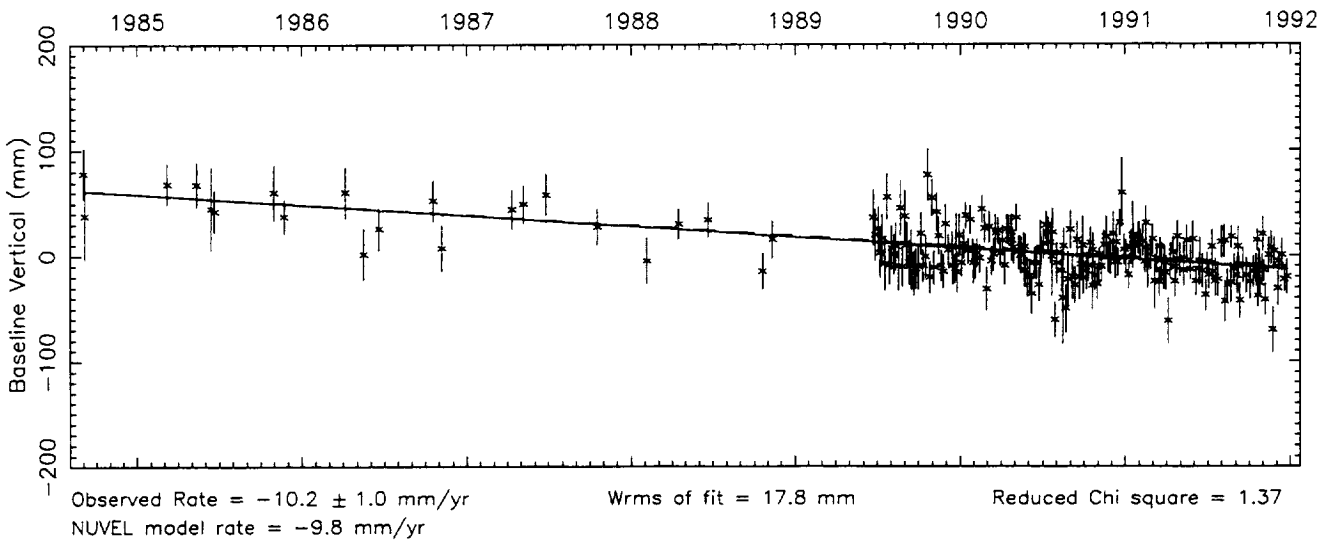
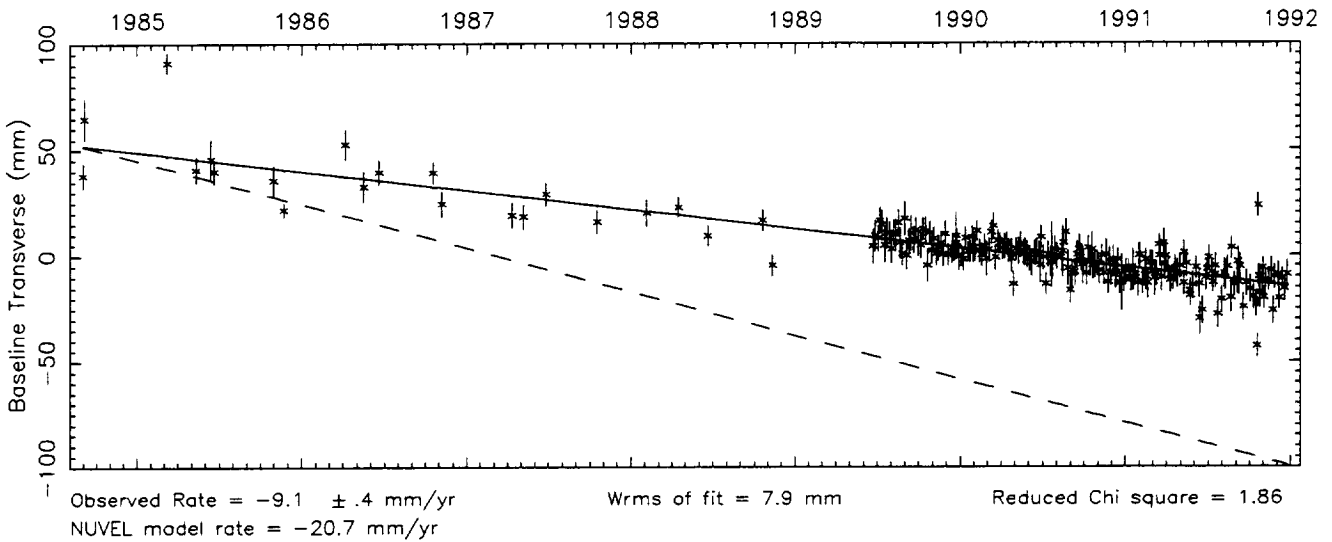
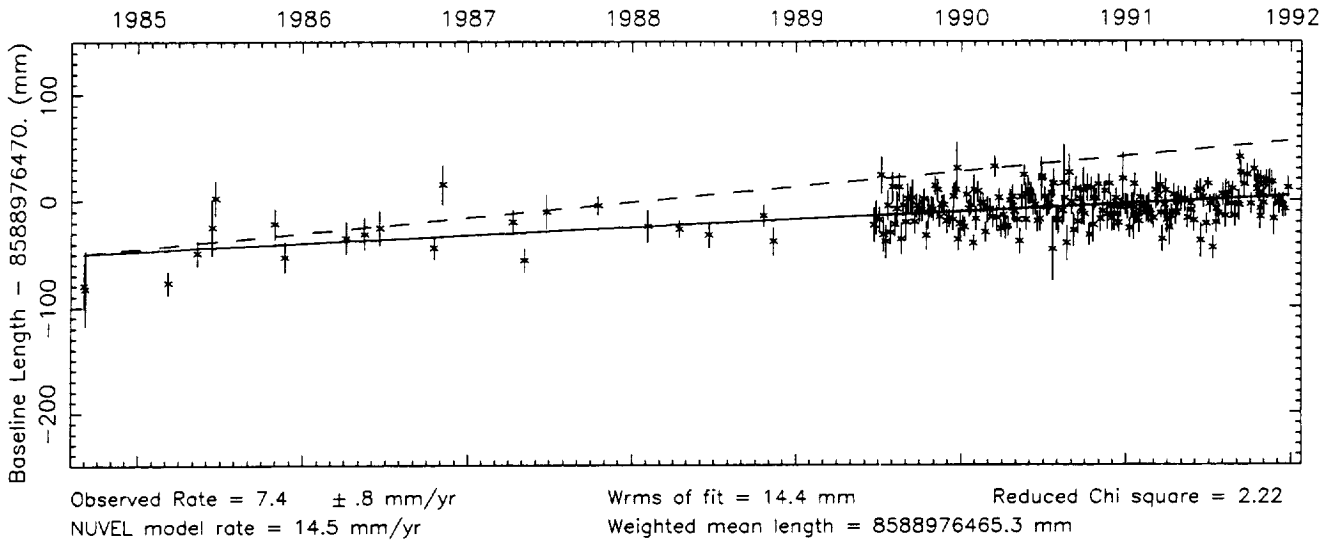
Number of sessions = 403



Vector baseline plots for MOJAVE12-WETTZELL

Baseline length = 8589 kilometers

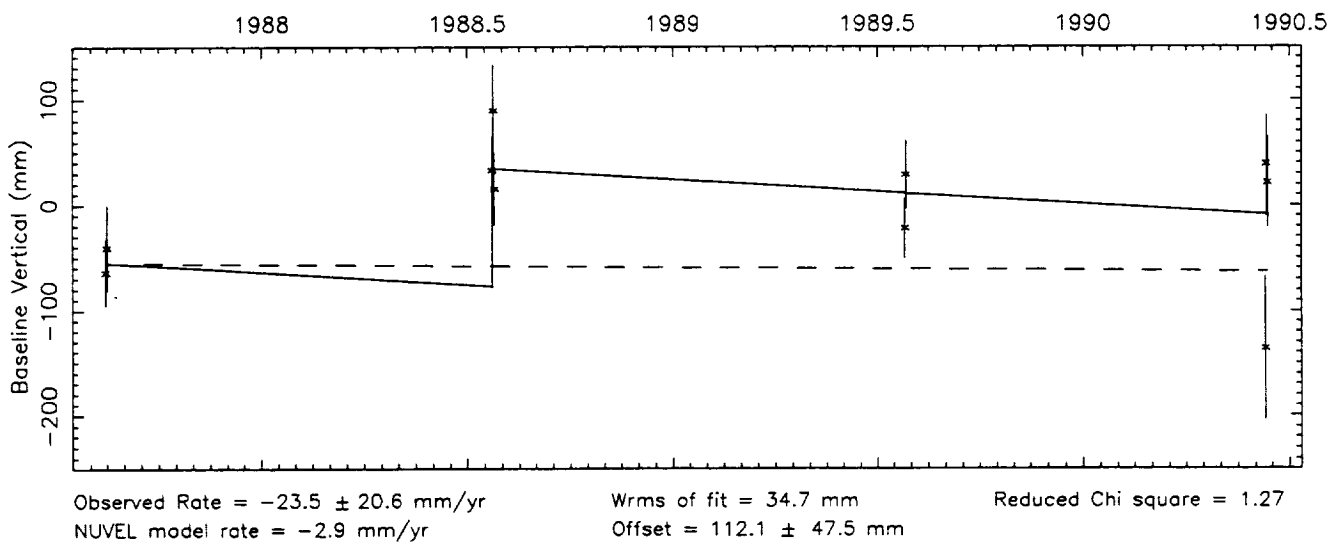
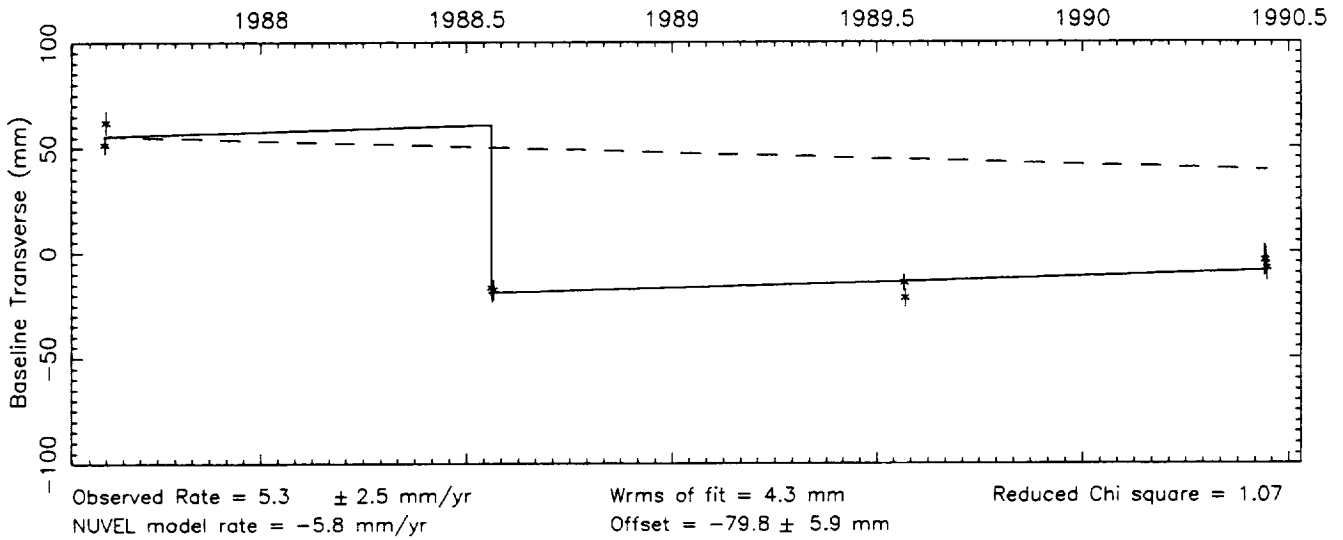
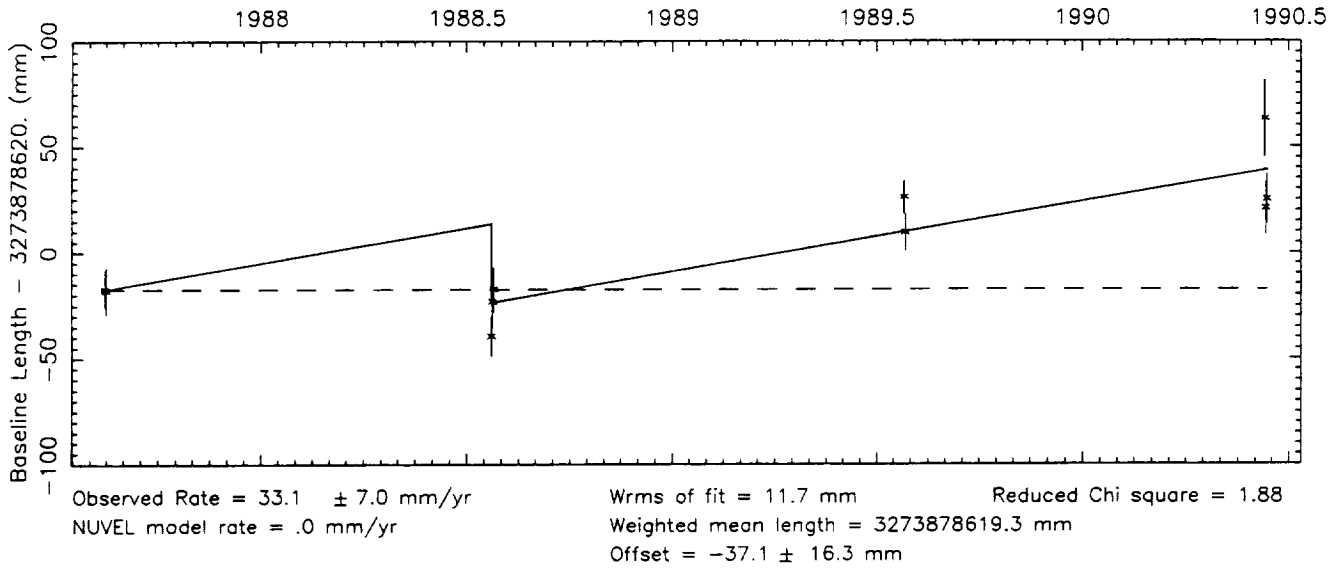
Number of sessions = 230



Vector baseline plots for MOJAVE12-YAKATAGA

Baseline length = 3274 kilometers

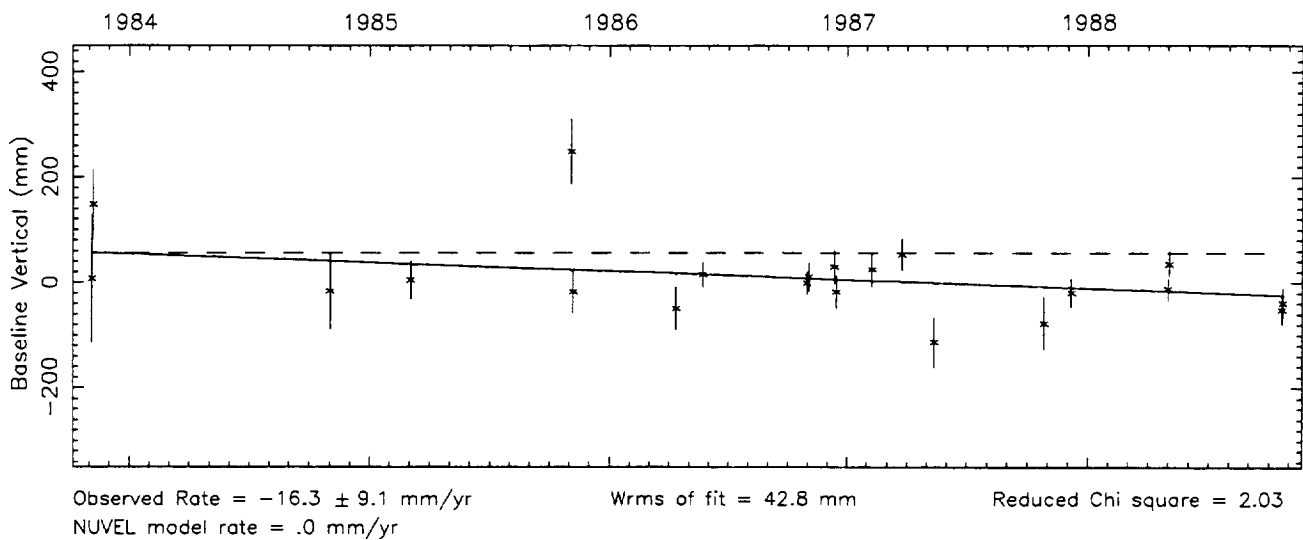
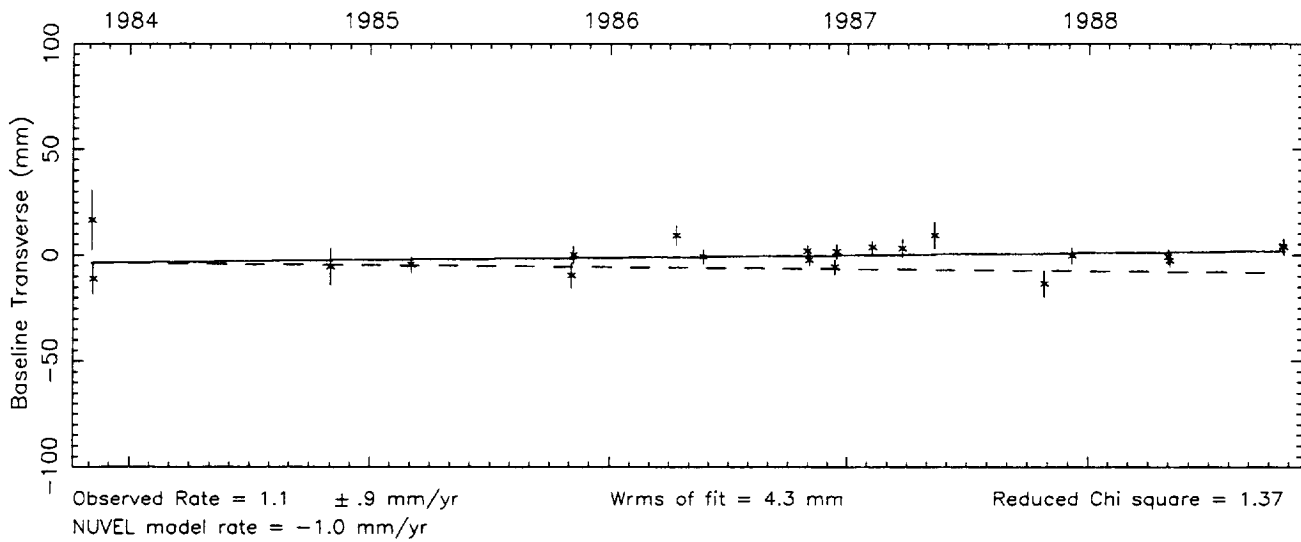
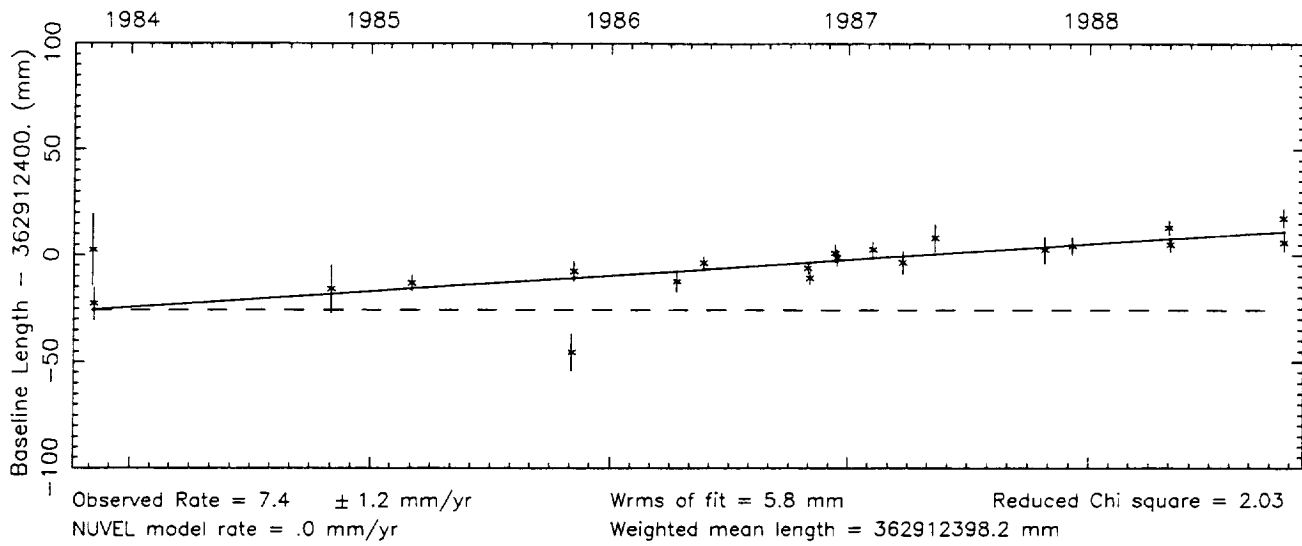
Number of sessions = 10



Vector baseline plots for MOJAVE12-YUMA

Baseline length = 363 kilometers

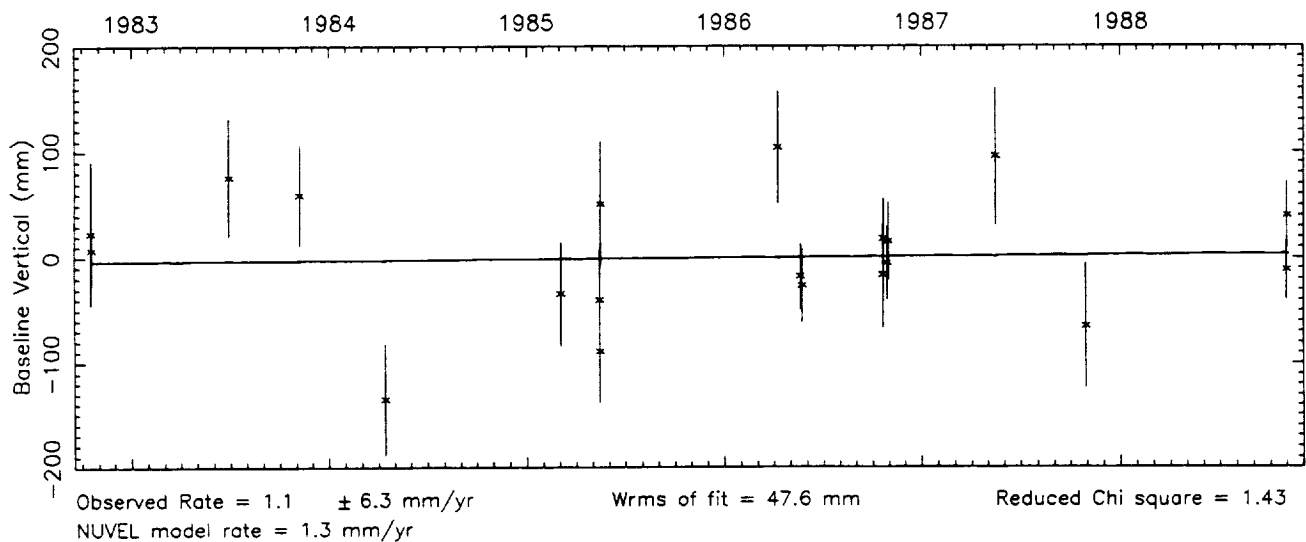
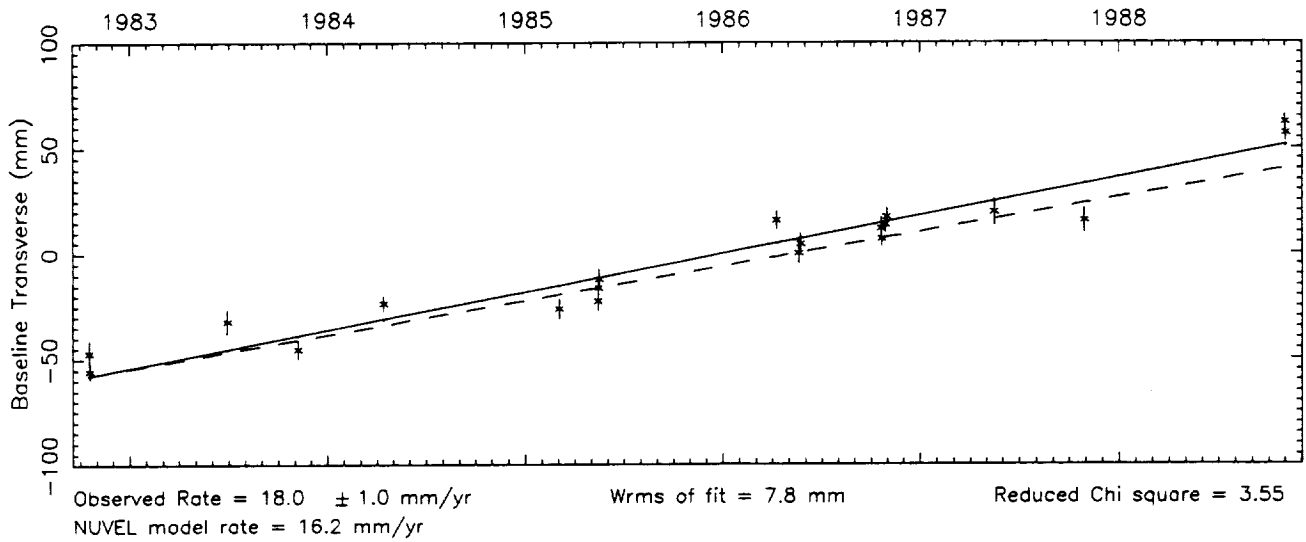
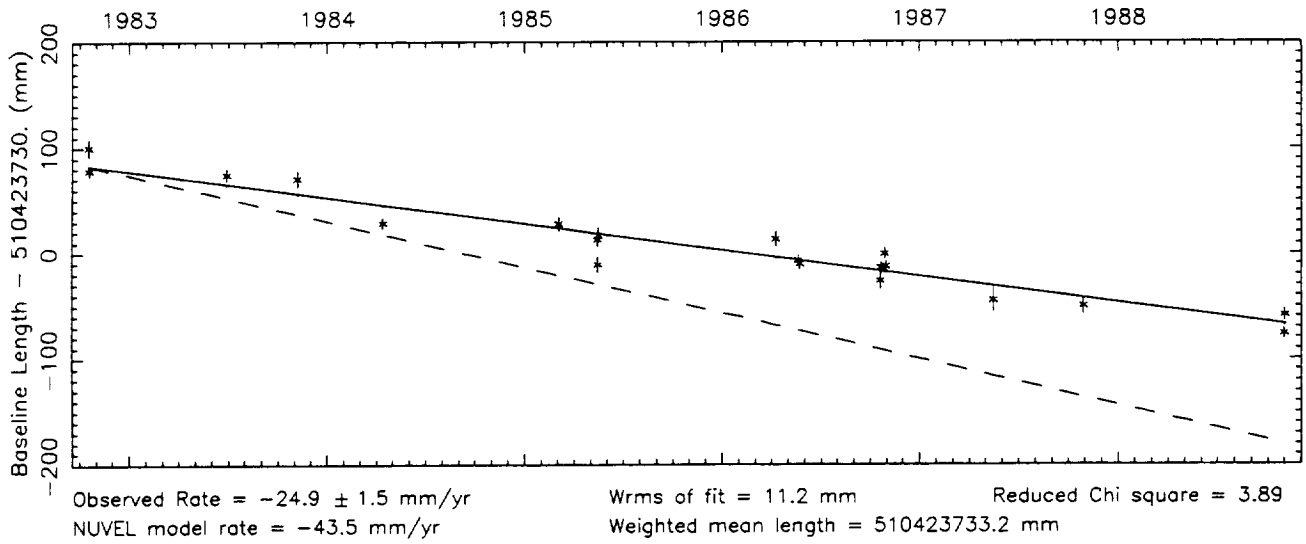
Number of sessions = 21



Vector baseline plots for MON PEAK-OVRO 130

Baseline length = 510 kilometers

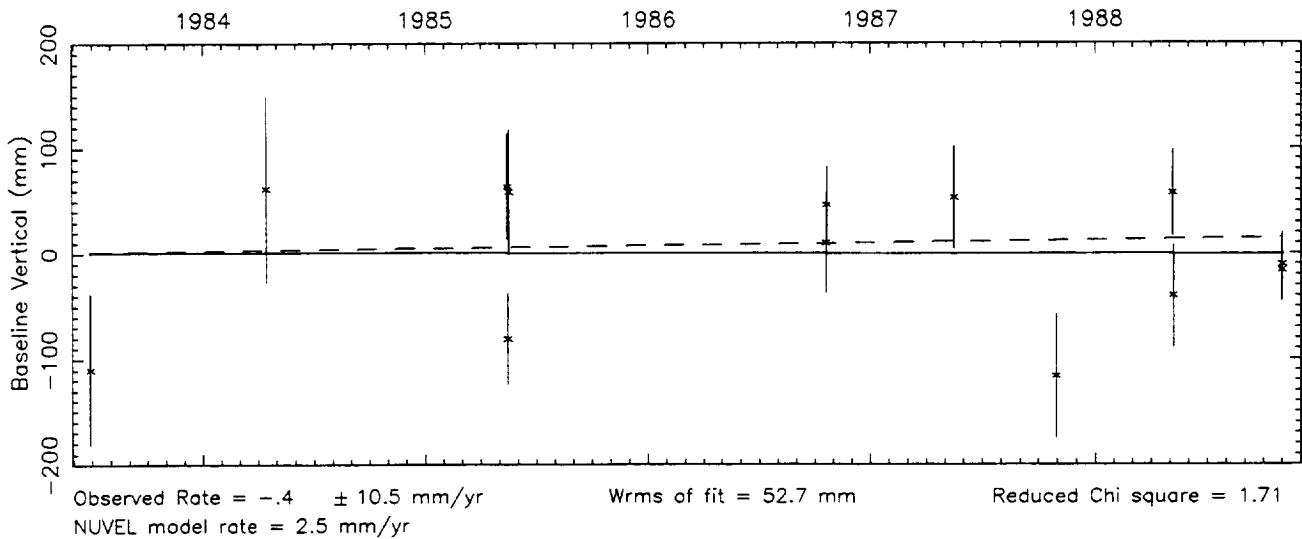
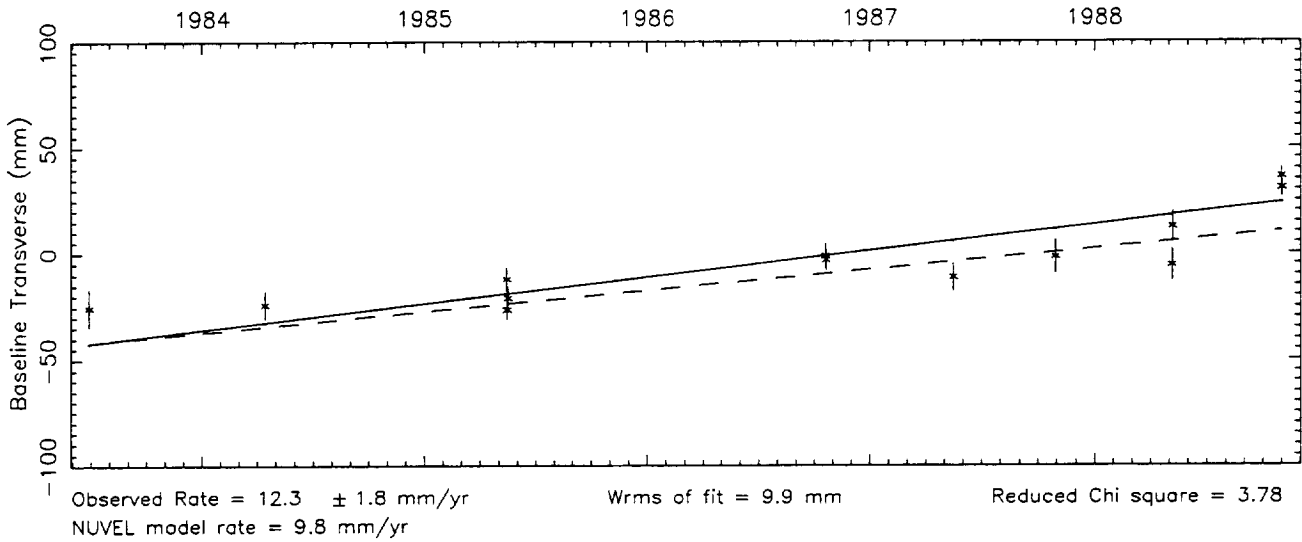
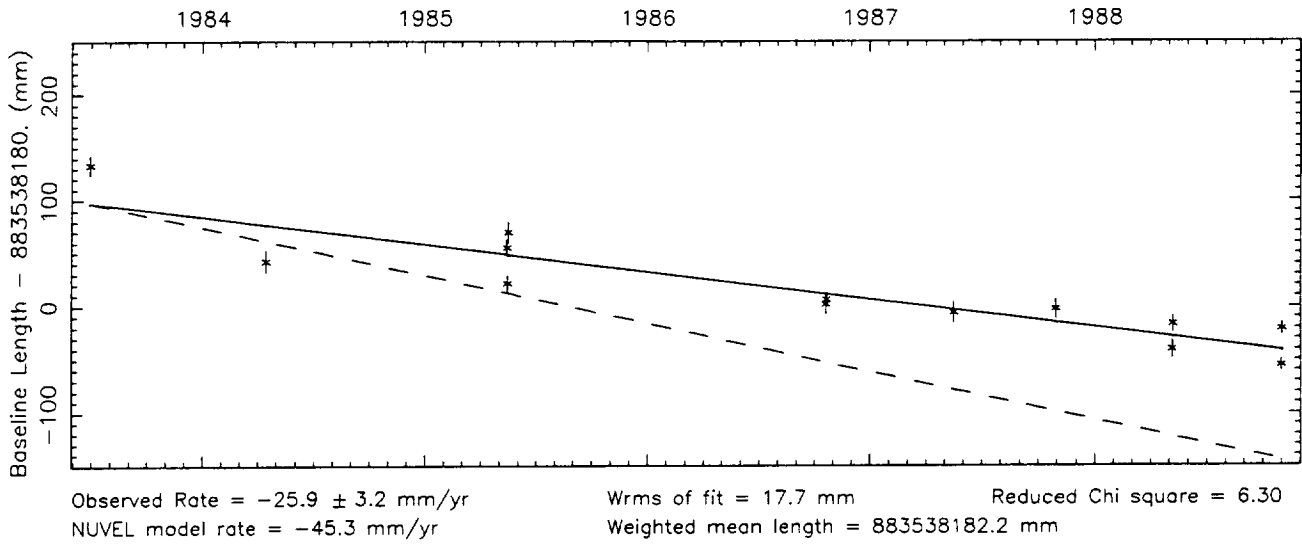
Number of sessions = 20



Vector baseline plots for MON PEAK-QUINCY

Baseline length = 884 kilometers

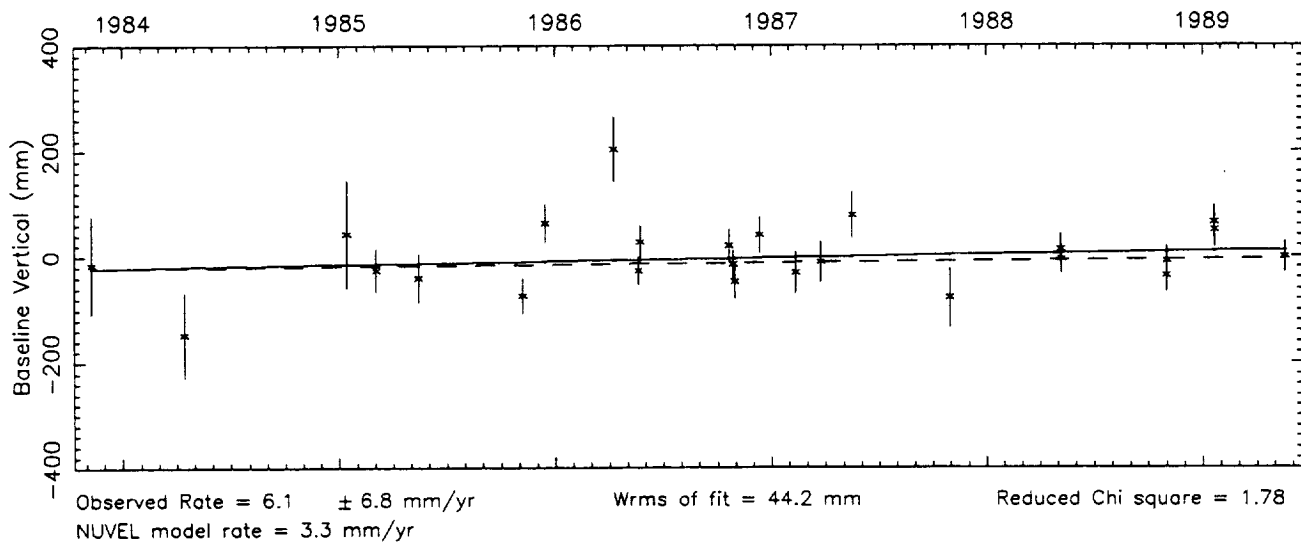
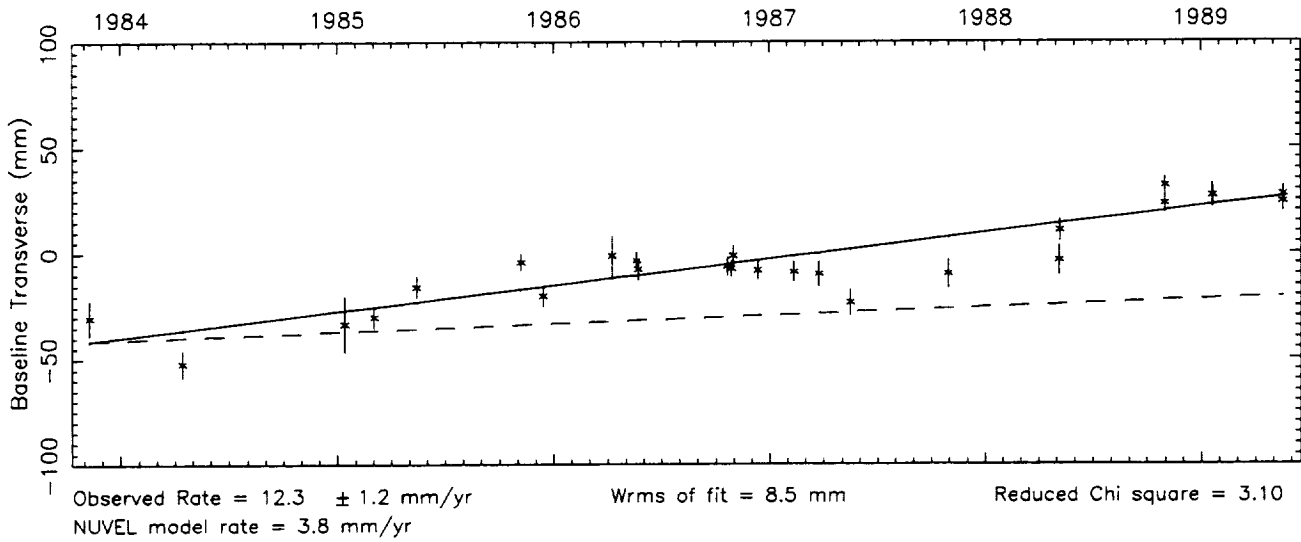
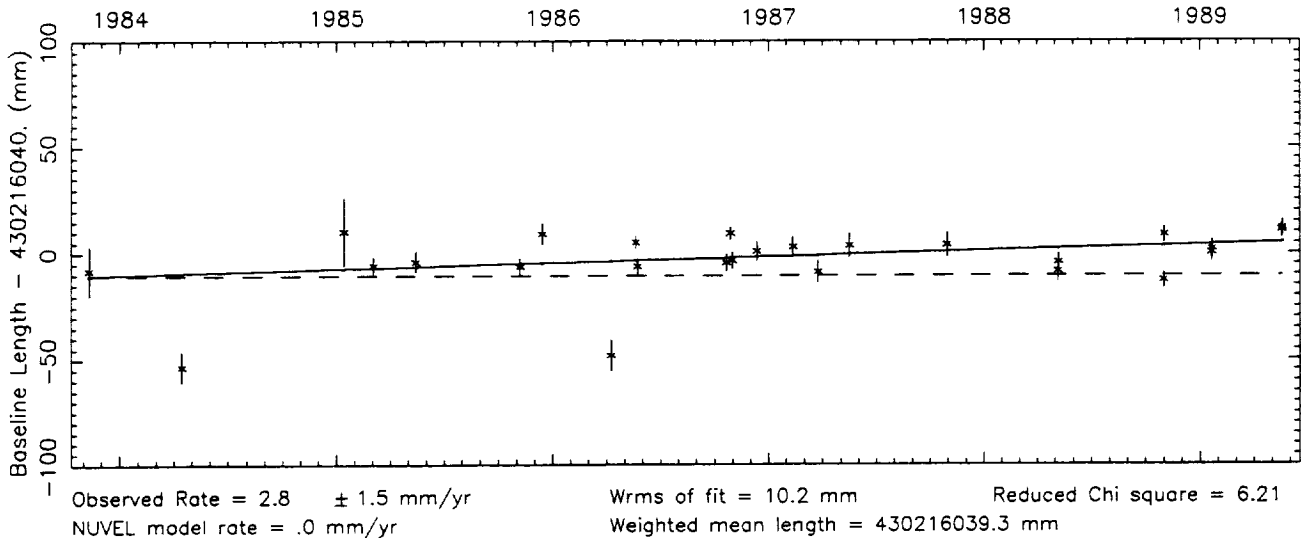
Number of sessions = 13



Vector baseline plots for MON PEAK-VNDNBERG

Baseline length = 430 kilometers

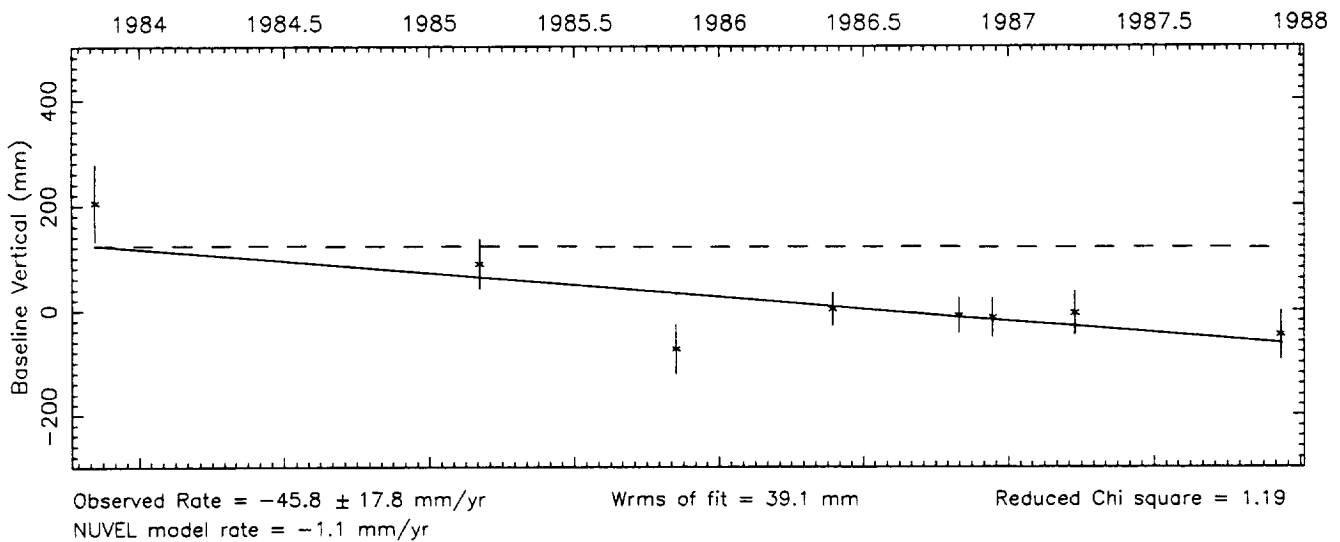
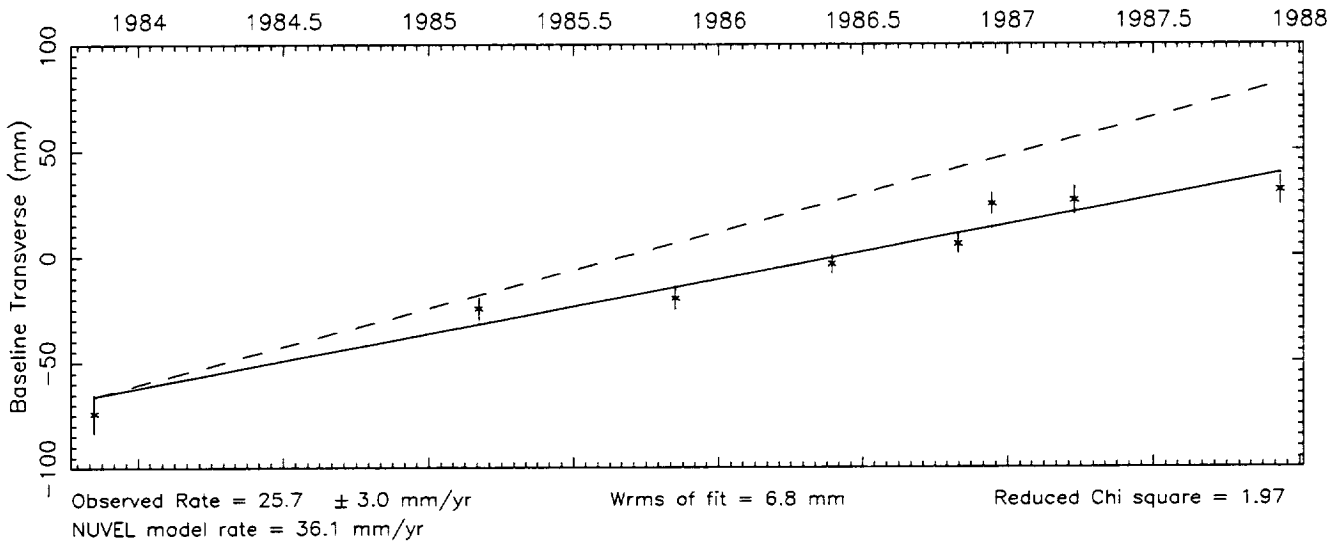
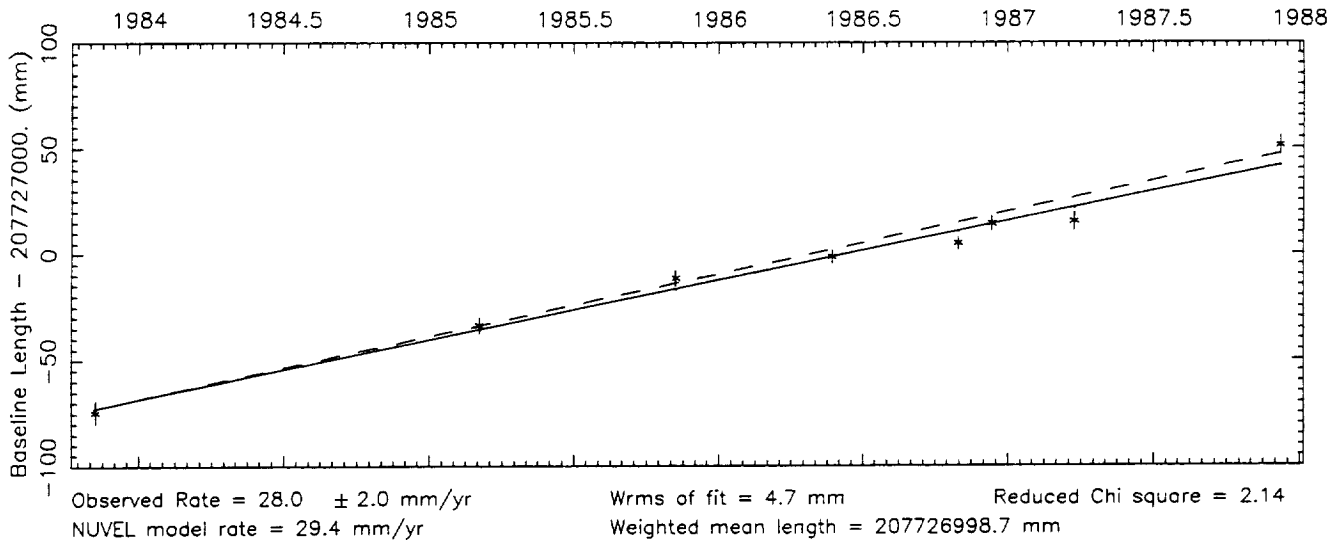
Number of sessions = 26



Vector baseline plots for MON PEAK-YUMA

Baseline length = 208 kilometers

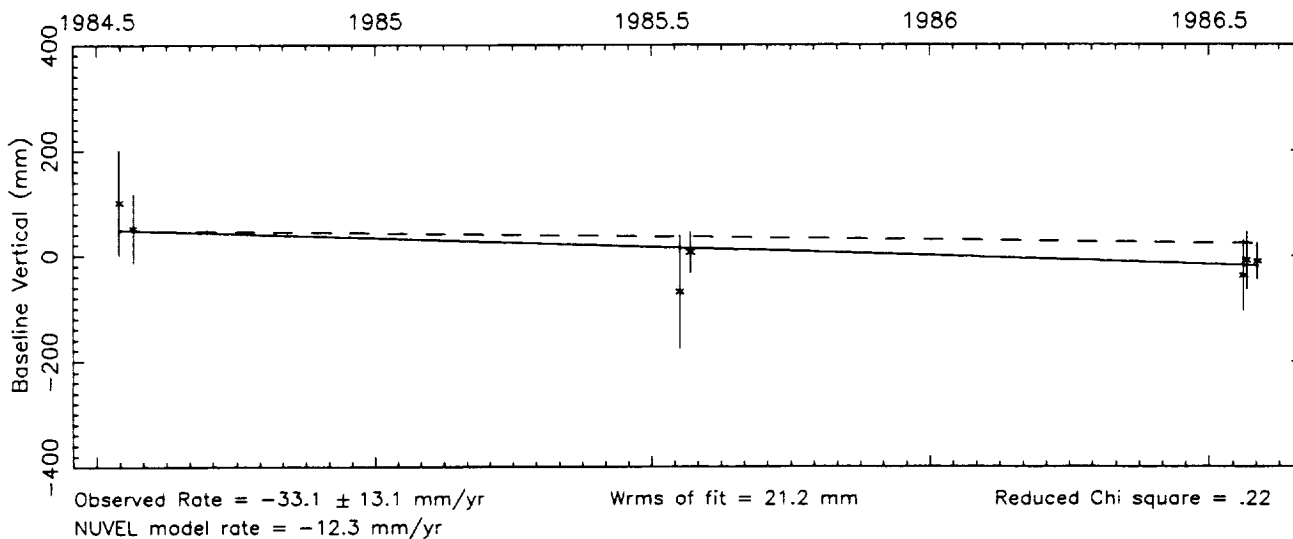
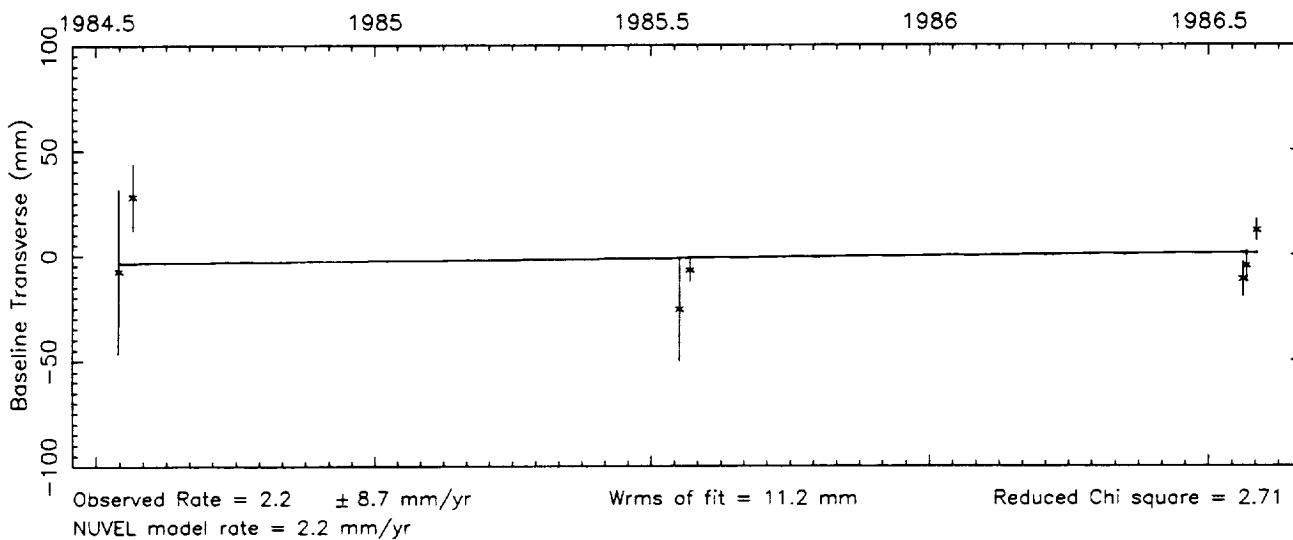
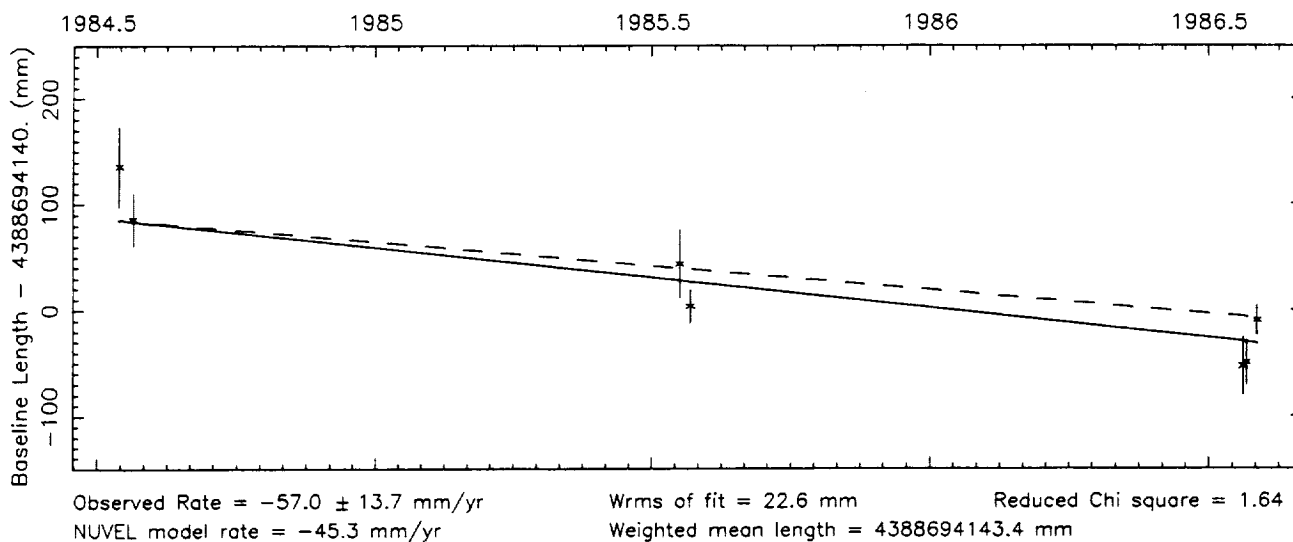
Number of sessions = 8



Vector baseline plots for NOME -VNDNBERG

Baseline length = 4389 kilometers

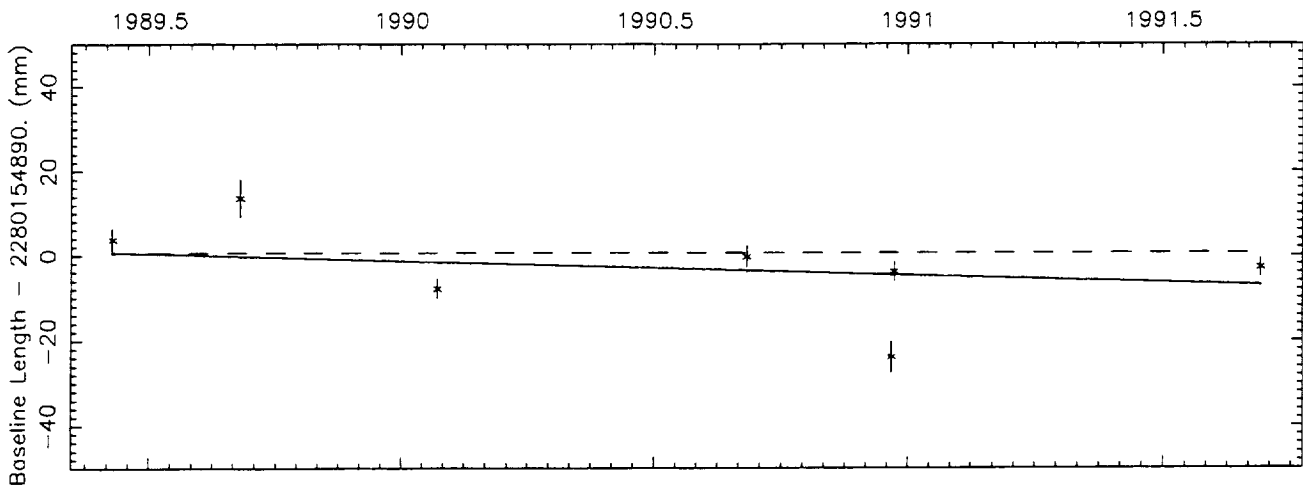
Number of sessions = 7



Vector baseline plots for NOTO - ONSALA60

Baseline length = 2280 kilometers

Number of sessions = 7

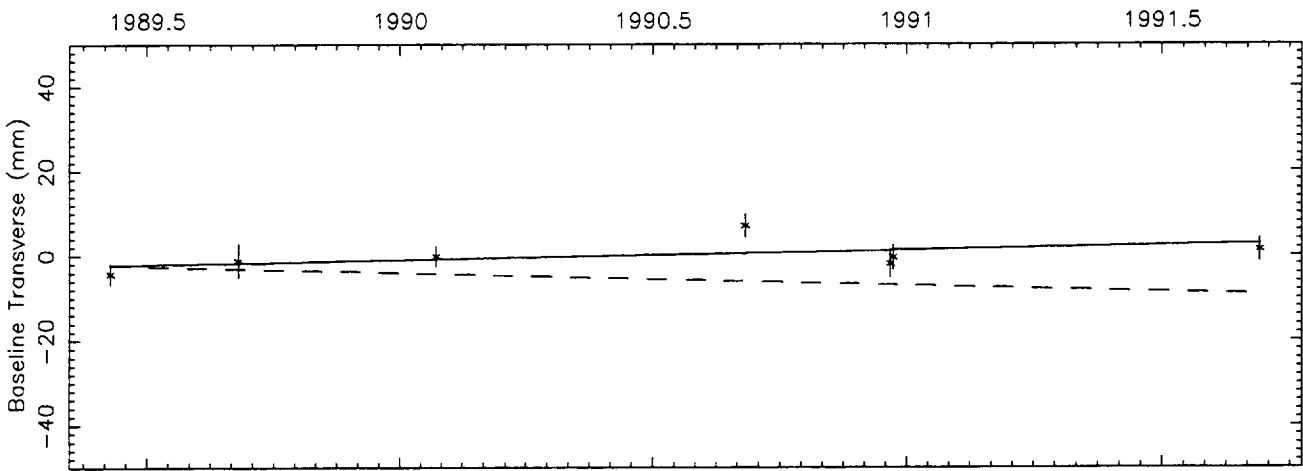


Observed Rate = -3.4 ± 4.3 mm/yr
 NUVEL model rate = 0 mm/yr

Wrms of fit = 7.2 mm

Reduced Chi square = 10.38

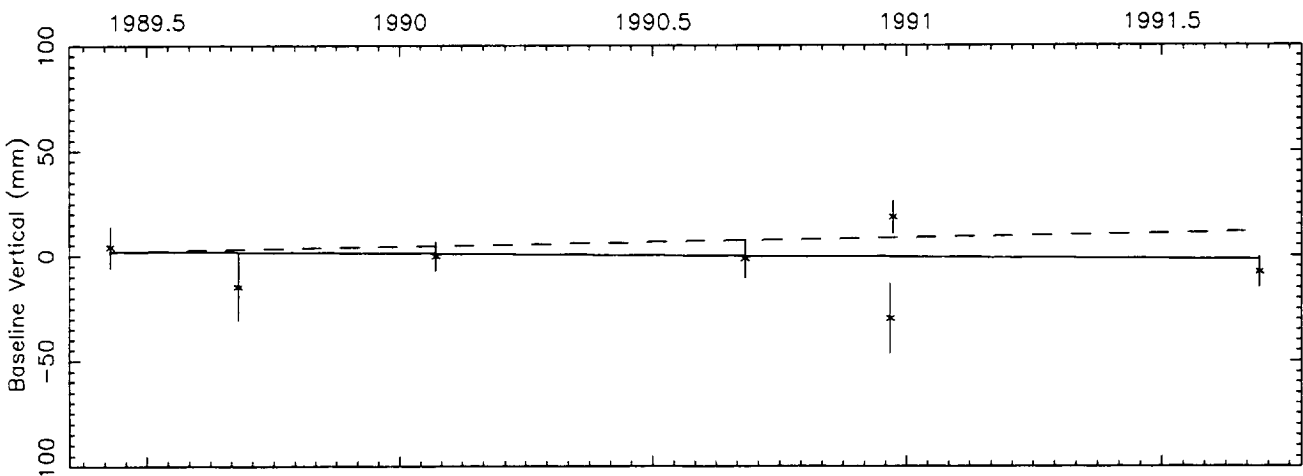
Weighted mean length = 2280154886.5 mm



Observed Rate = 2.2 ± 1.8 mm/yr
 NUVEL model rate = -3.0 mm/yr

Wrms of fit = 3.0 mm

Reduced Chi square = 1.58



Observed Rate = -1.6 ± 6.7 mm/yr
 NUVEL model rate = 4.2 mm/yr

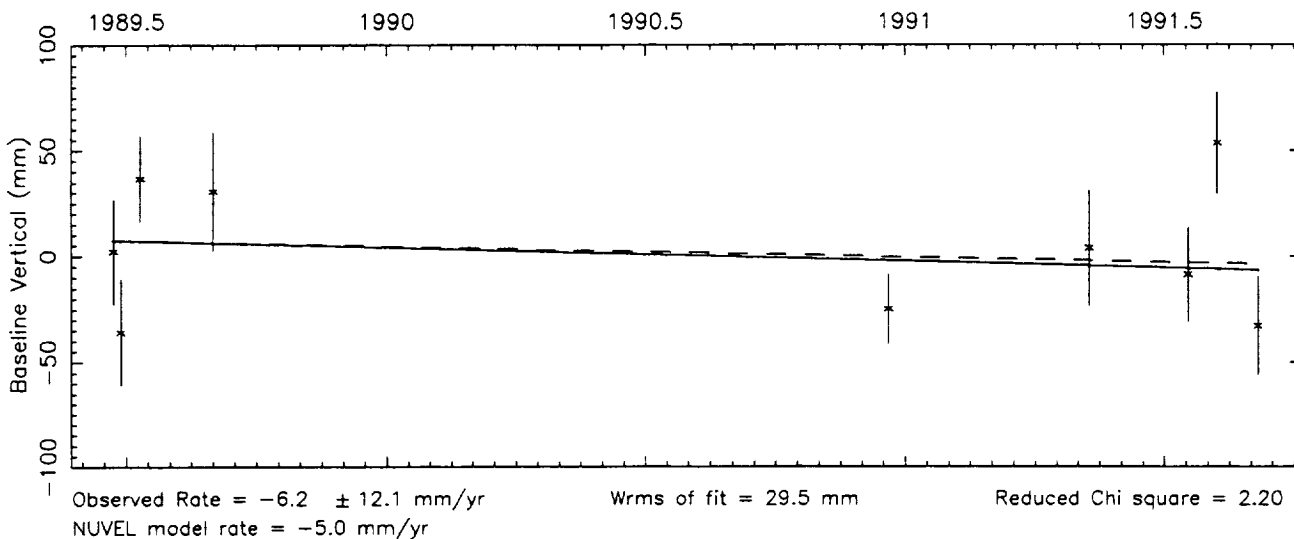
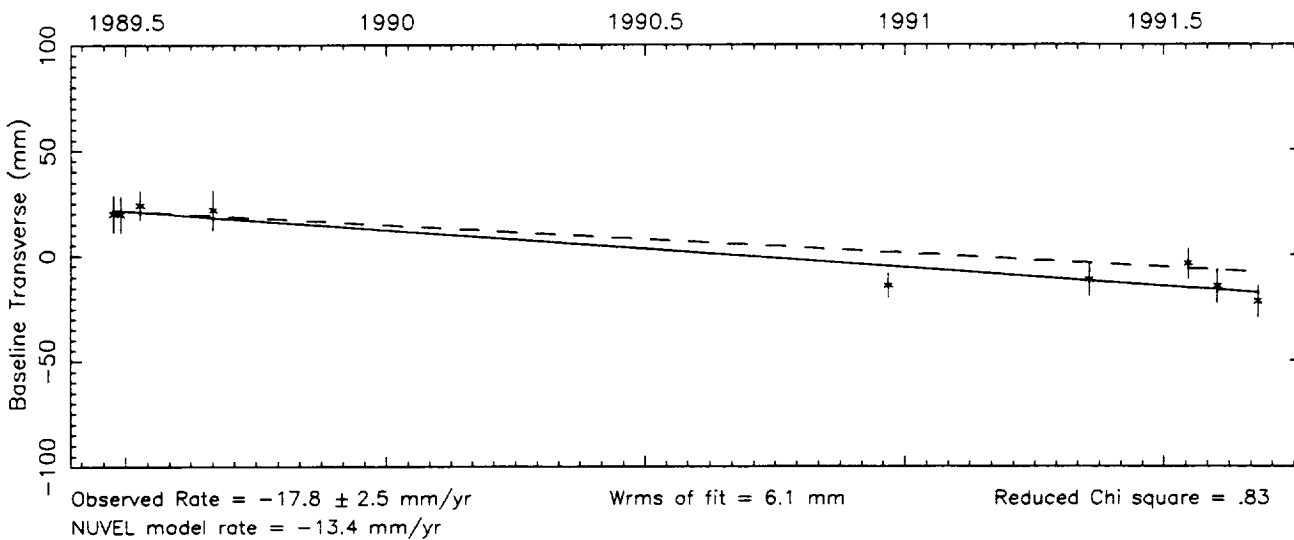
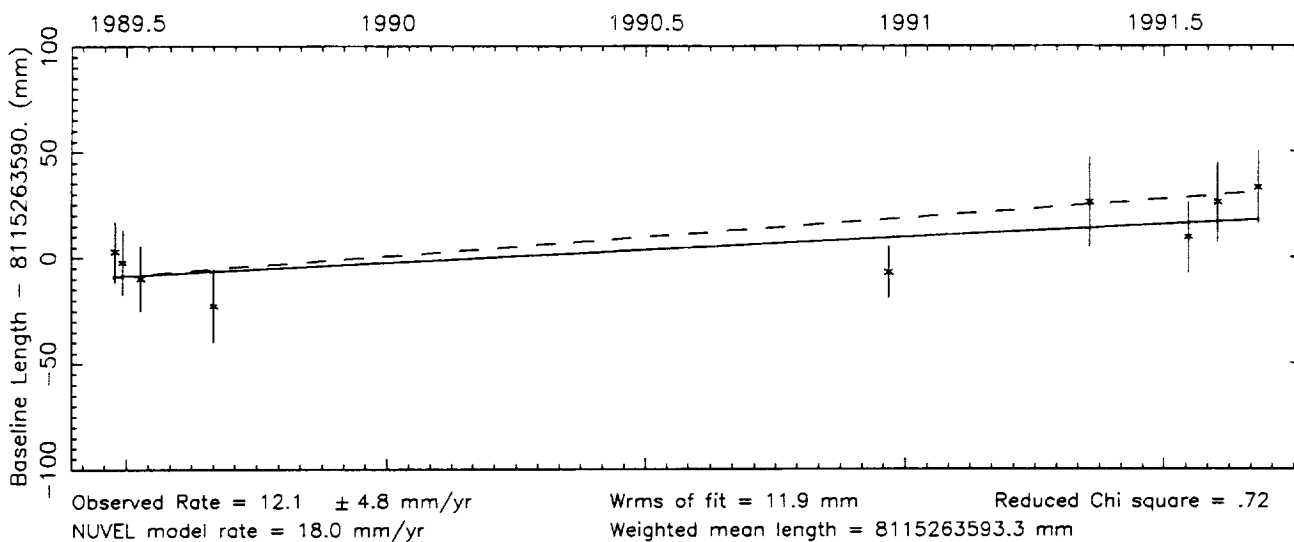
Wrms of fit = 11.2 mm

Reduced Chi square = 2.10

Vector baseline plots for NOTO -RICHMOND

Baseline length = 8115 kilometers

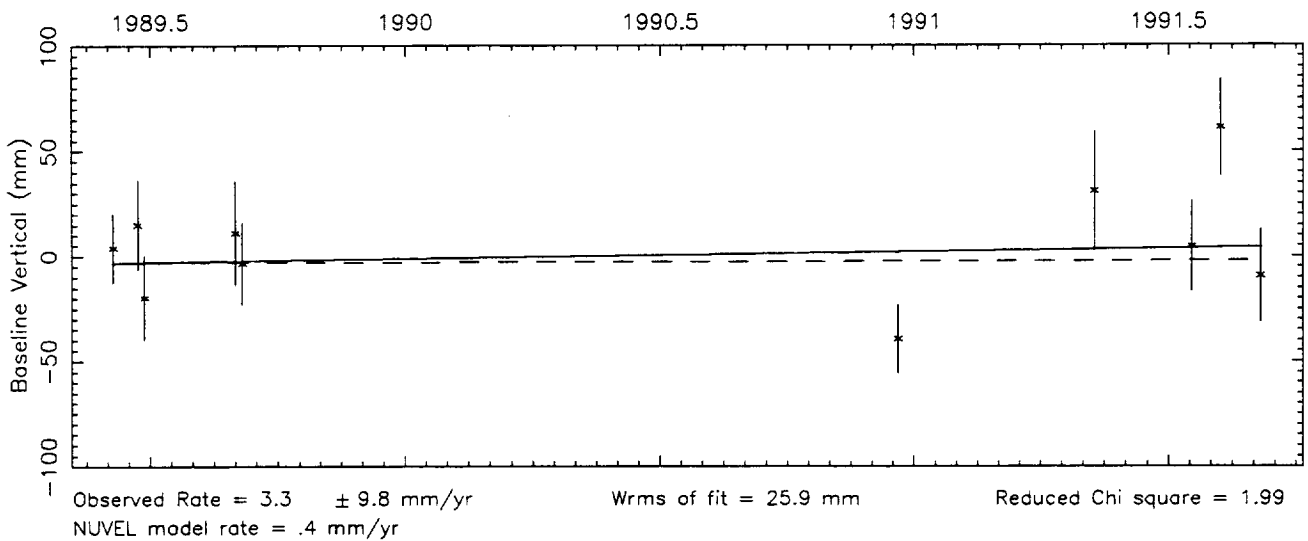
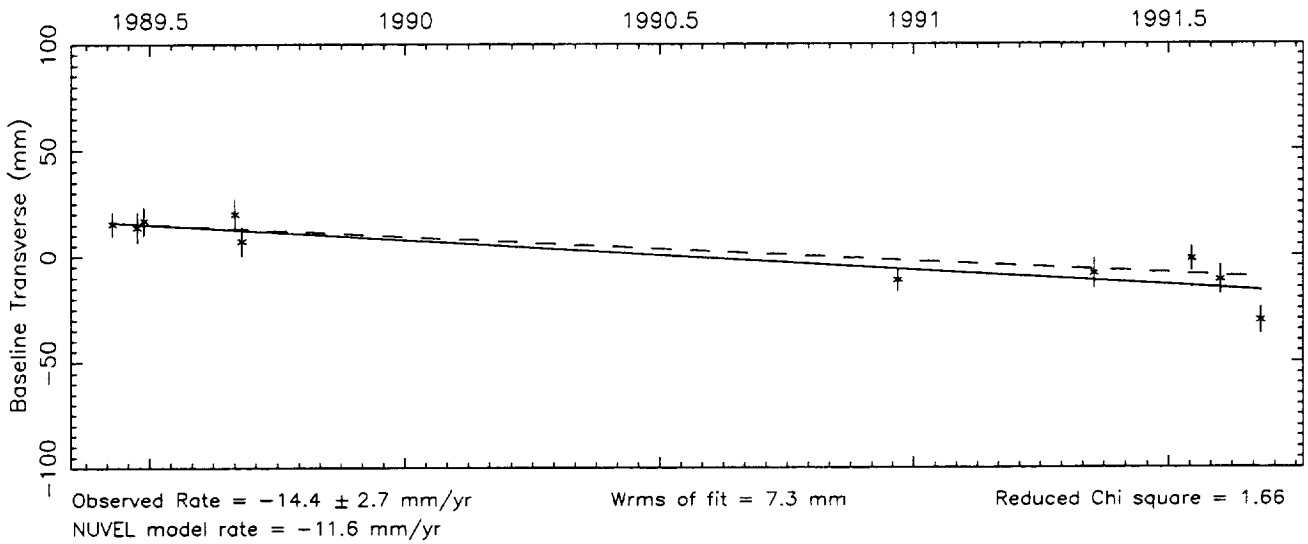
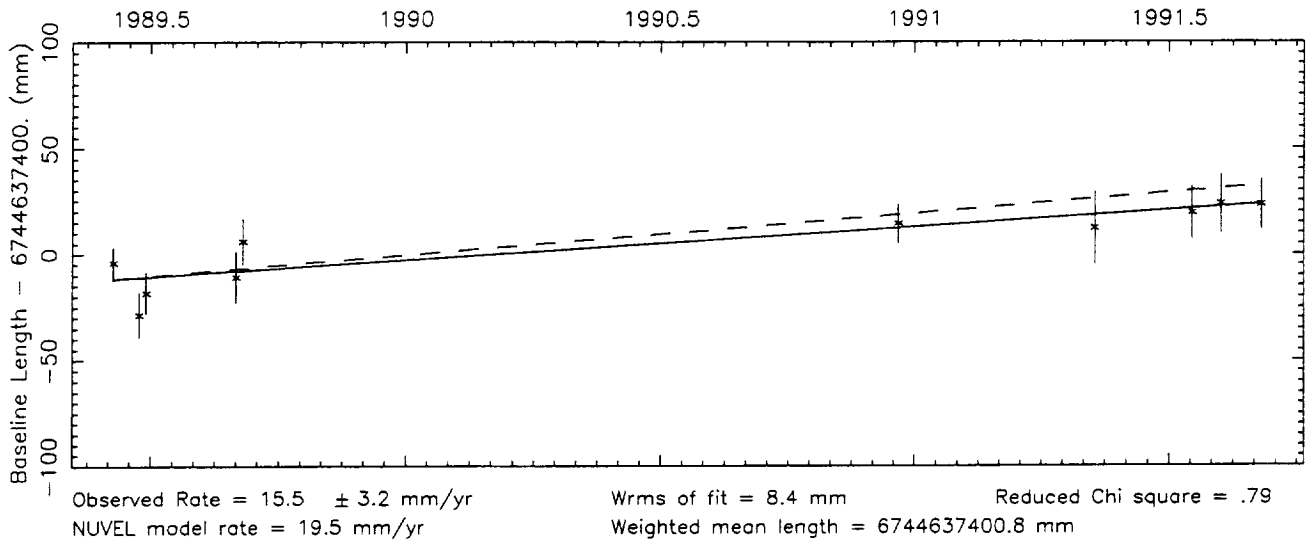
Number of sessions = 9



Vector baseline plots for NOTO -WESTFORD

Baseline length = 6745 kilometers

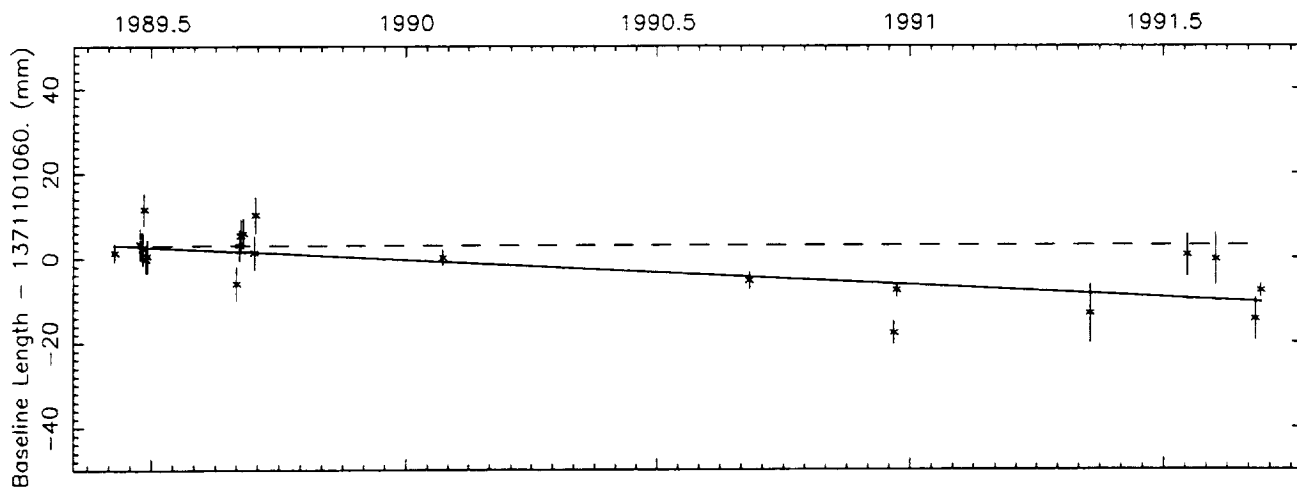
Number of sessions = 10



Vector baseline plots for NOTO -WETTZELL

Baseline length = 1371 kilometers

Number of sessions = 21

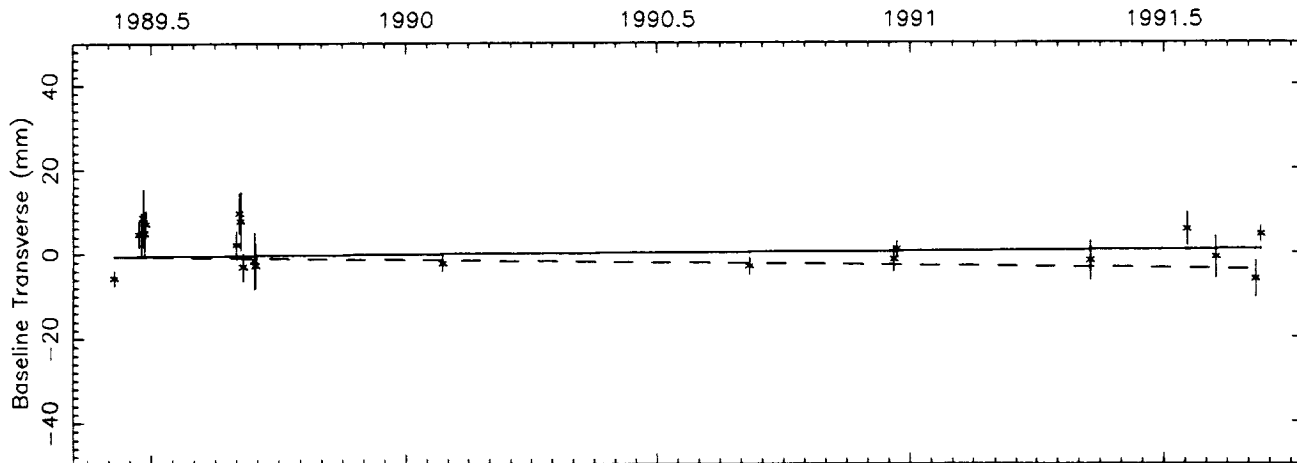


Observed Rate = -6.0 ± 1.2 mm/yr
 NUVEL model rate = $.0$ mm/yr

Wrms of fit = 4.3 mm

Reduced Chi square = 2.50

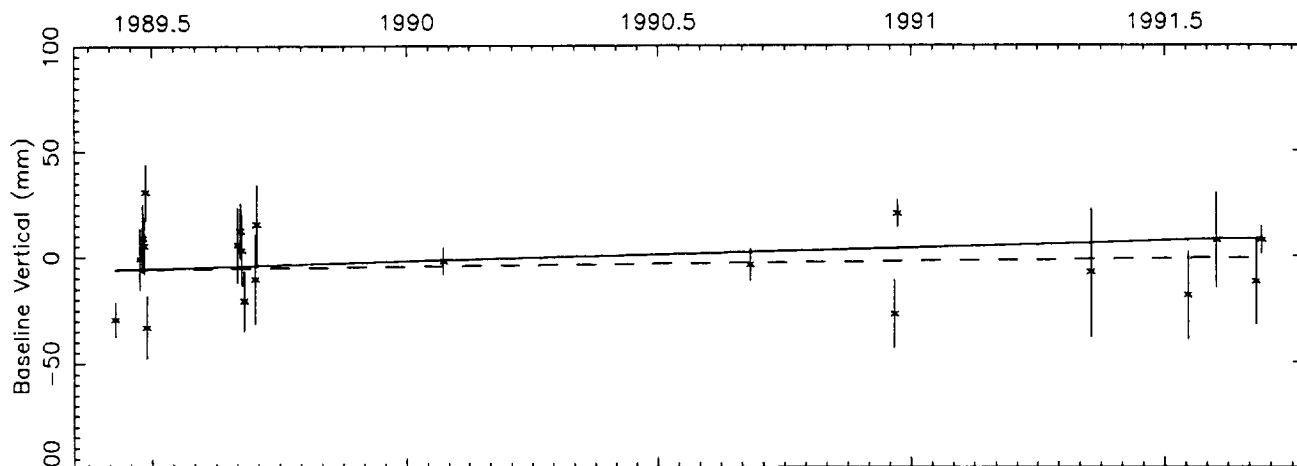
Weighted mean length = 1371101057.1 mm



Observed Rate = $.7 \pm 1.2$ mm/yr
 NUVEL model rate = -1.5 mm/yr

Wrms of fit = 4.2 mm

Reduced Chi square = 2.12



Observed Rate = 6.4 ± 4.4 mm/yr
 NUVEL model rate = 2.4 mm/yr

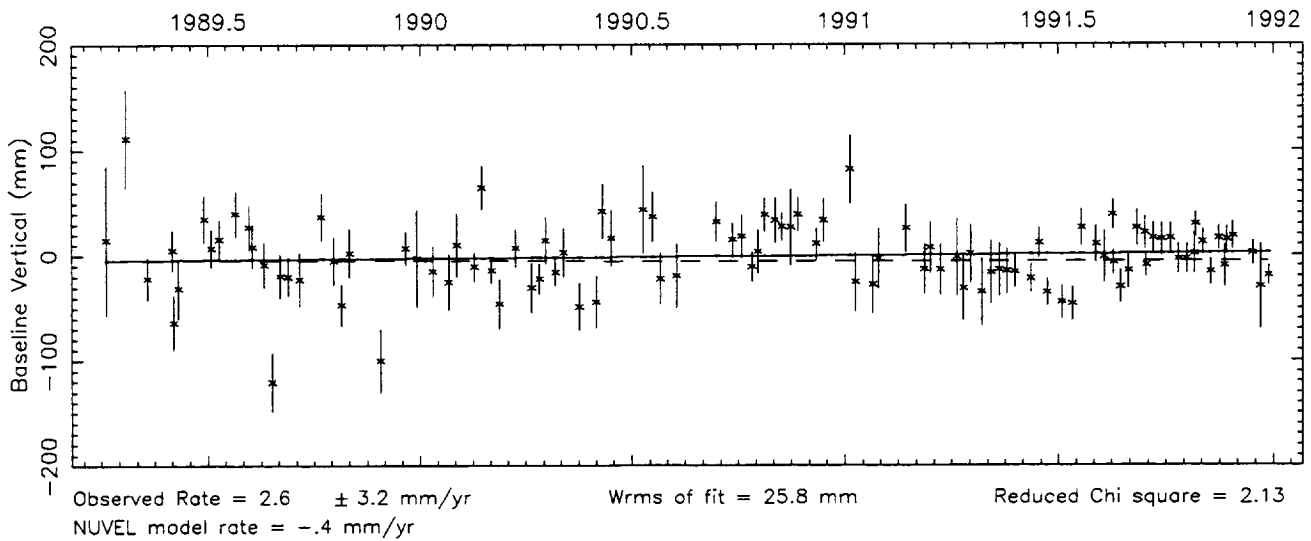
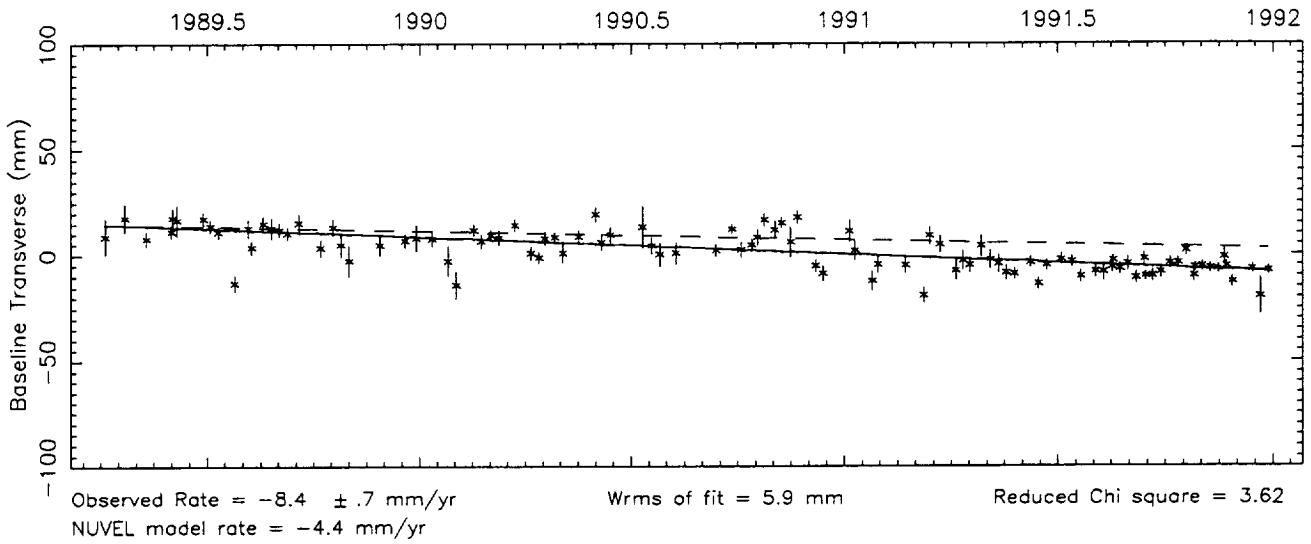
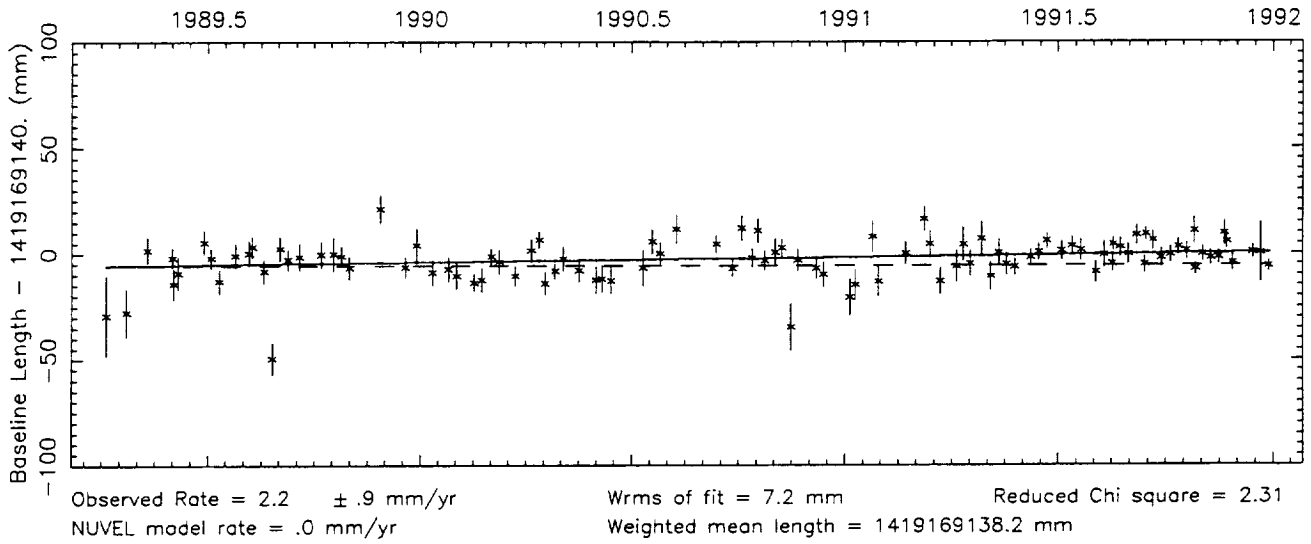
Wrms of fit = 15.5 mm

Reduced Chi square = 2.03

Vector baseline plots for NRA085 3-RICHMOND

Baseline length = 1419 kilometers

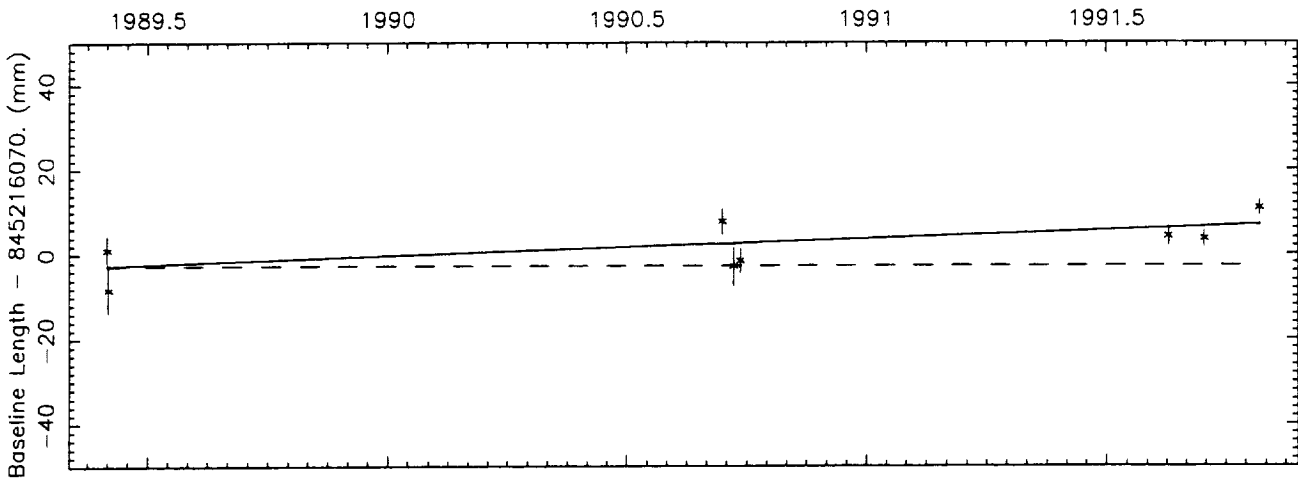
Number of sessions = 104



Vector baseline plots for NRA085 3—WESTFORD

Baseline length = 845 kilometers

Number of sessions = 8

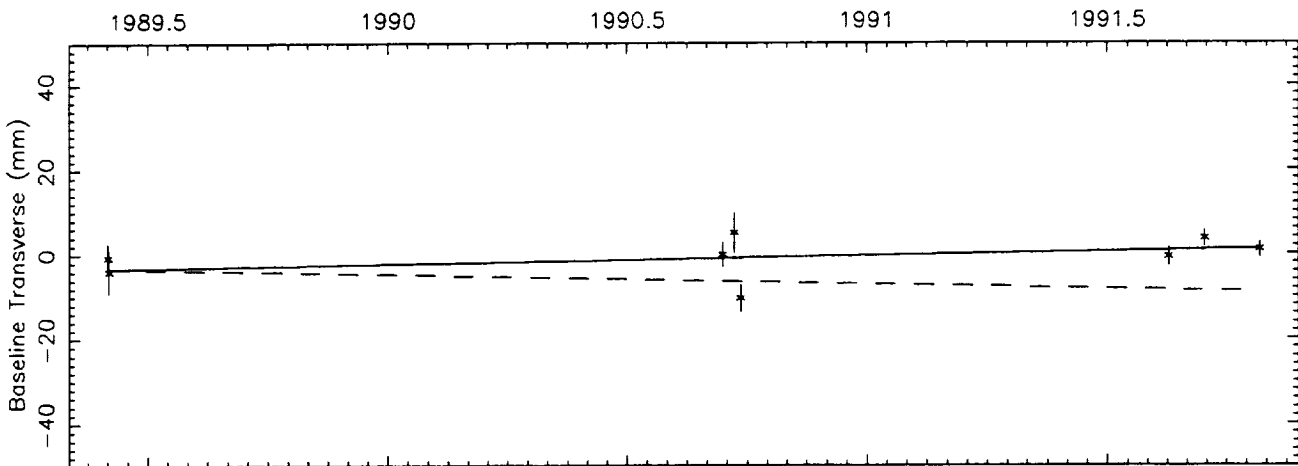


Observed Rate = 4.0 ± 2.0 mm/yr
 NUVEL model rate = $.0$ mm/yr

Wrms of fit = 3.8 mm

Reduced Chi square = 2.82

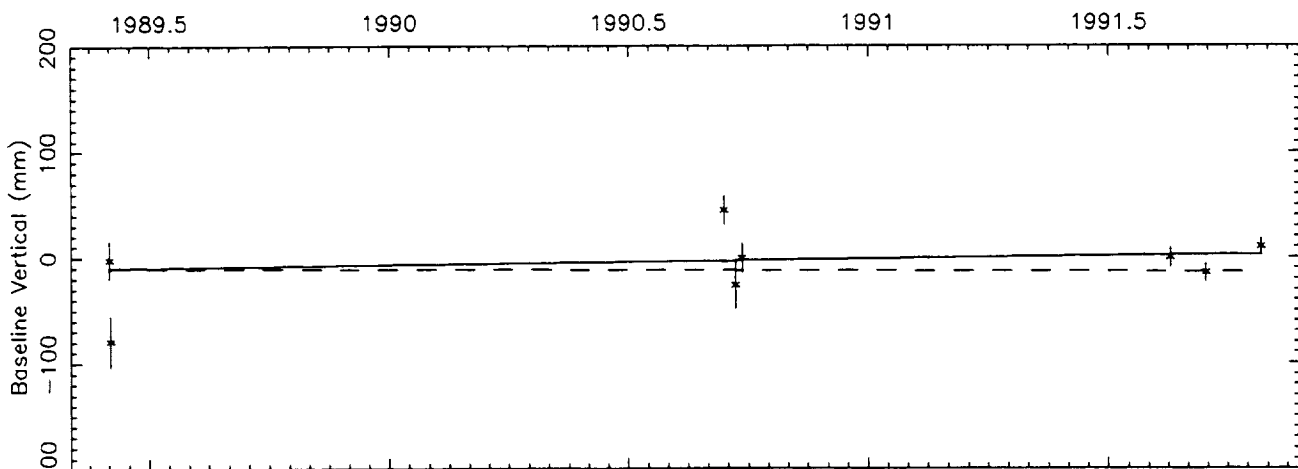
Weighted mean length = 845216074.5 mm



Observed Rate = 1.9 ± 1.8 mm/yr
 NUVEL model rate = -2.3 mm/yr

Wrms of fit = 3.4 mm

Reduced Chi square = 2.29



Observed Rate = 5.5 ± 12.2 mm/yr
 NUVEL model rate = -1.5 mm/yr

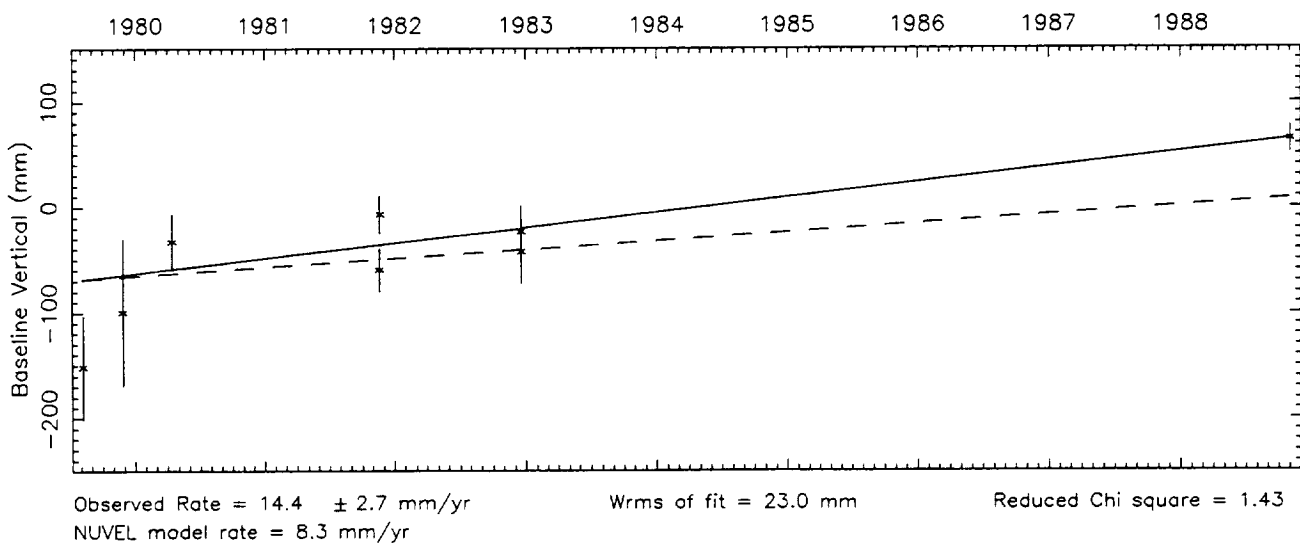
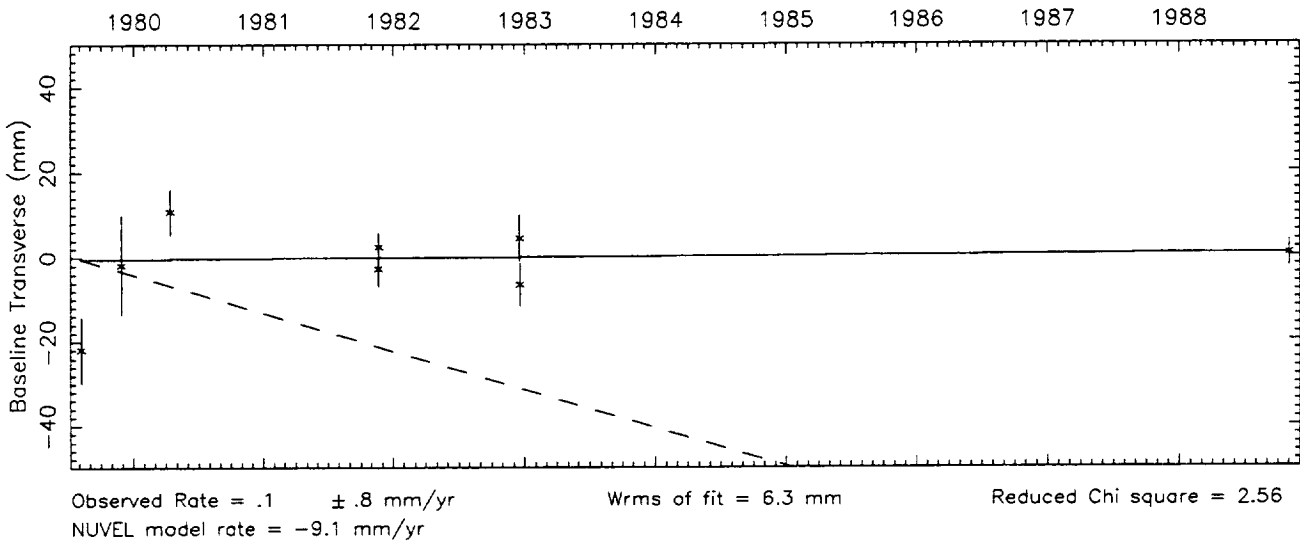
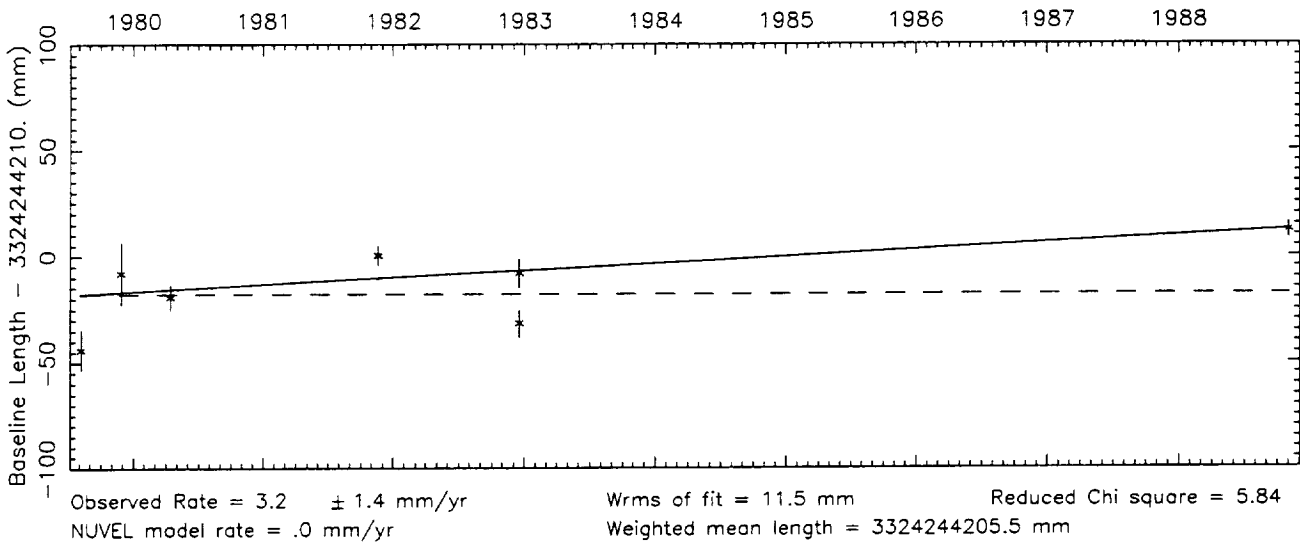
Wrms of fit = 21.2 mm

Reduced Chi square = 4.37

Vector baseline plots for NRAO 140-OVRO 130

Baseline length = 3324 kilometers

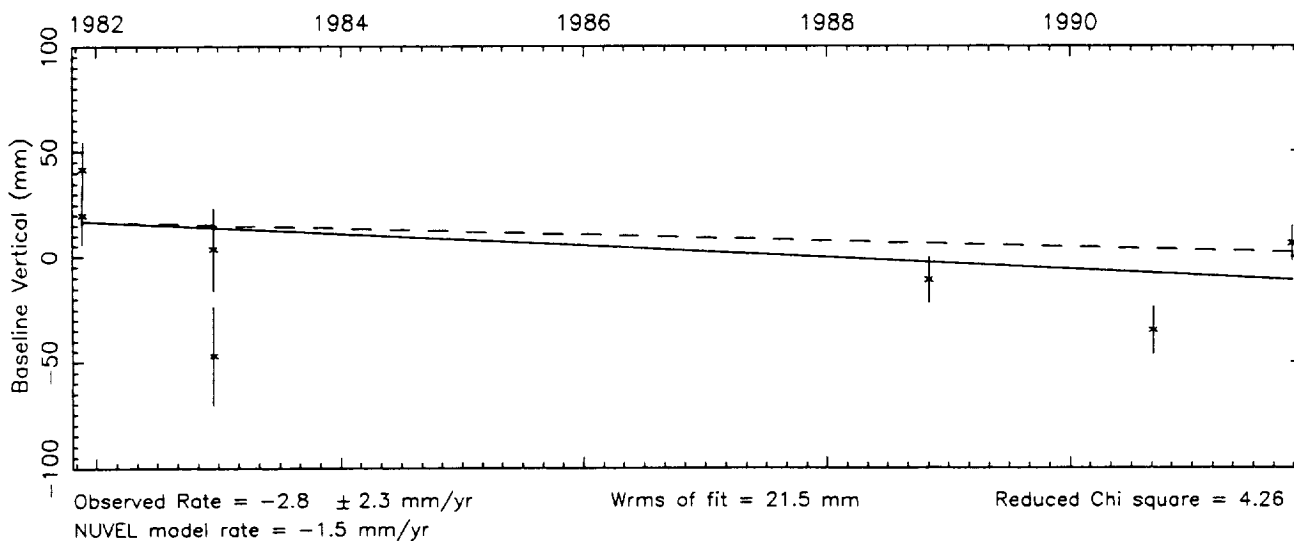
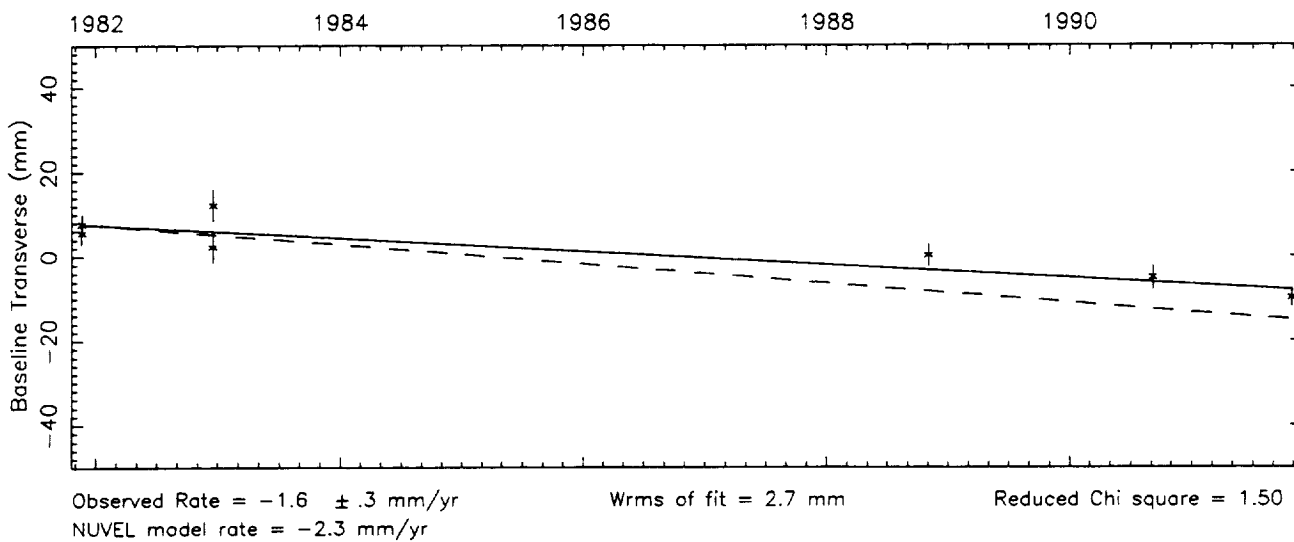
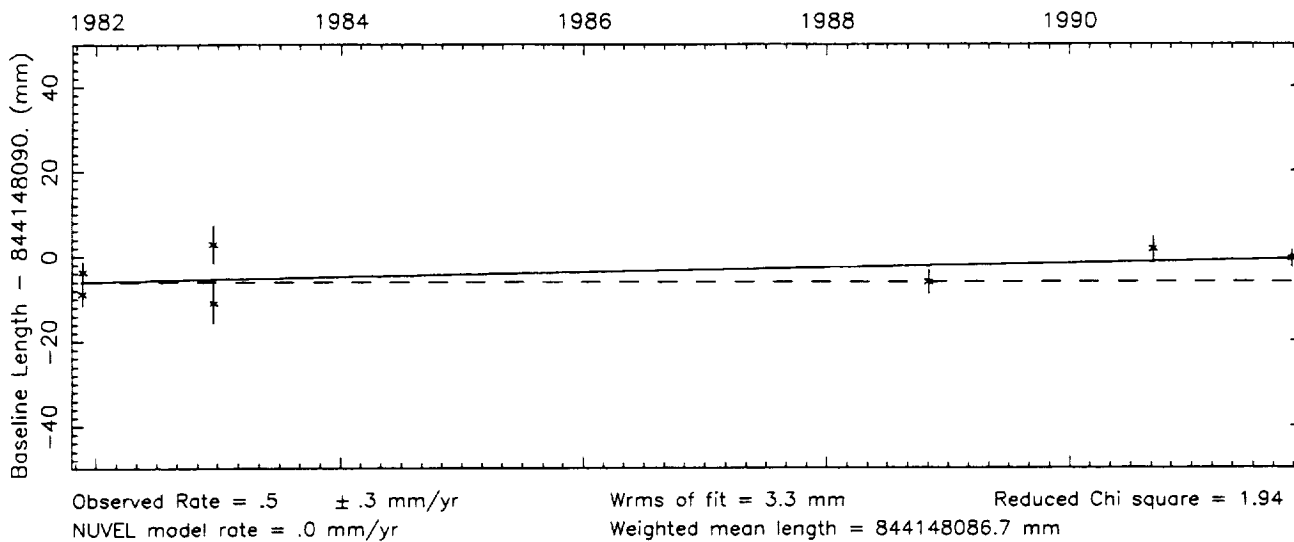
Number of sessions = 8



Vector baseline plots for NRAO 140-WESTFORD

Baseline length = 844 kilometers

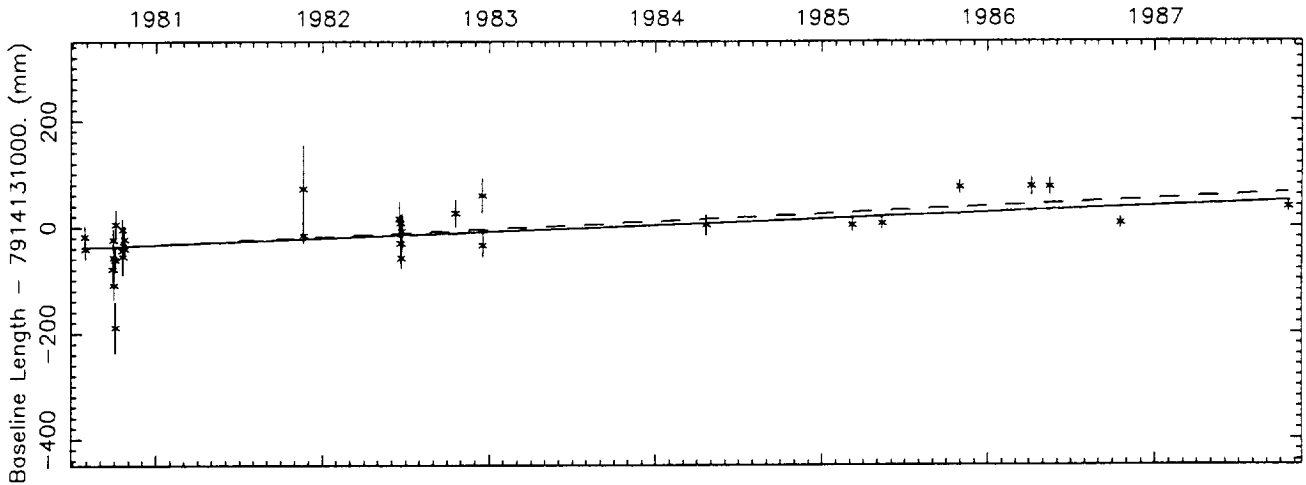
Number of sessions = 7



Vector baseline plots for ONSALA60-OVRO 130

Baseline length = 7914 kilometers

Number of sessions = 33

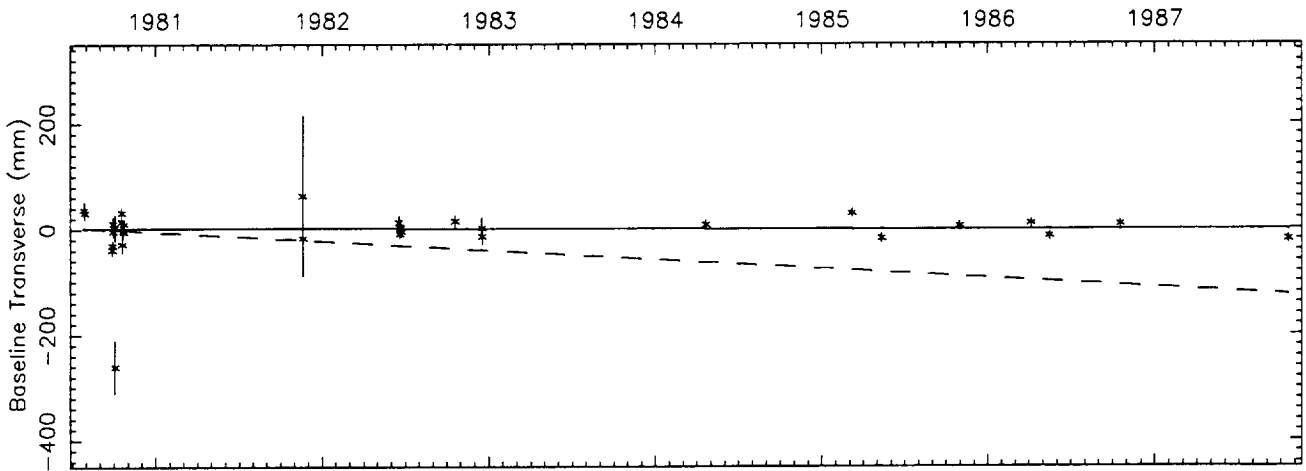


Observed Rate = 12.2 ± 2.1 mm/yr
 NUVEL model rate = 14.3 mm/yr

Wrms of fit = 29.7 mm

Reduced Chi square = 2.98

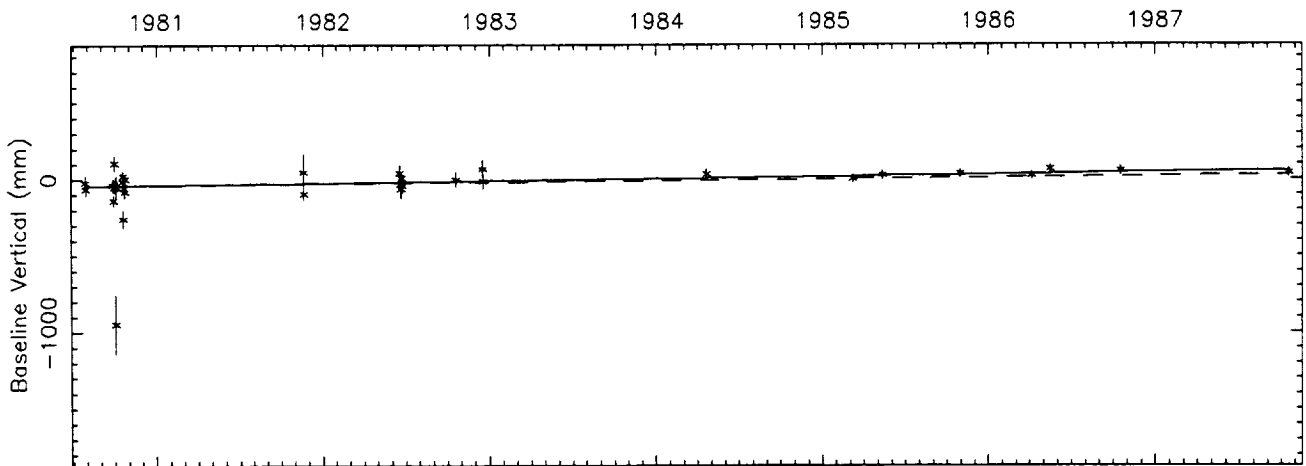
Weighted mean length = 7914131000.9 mm



Observed Rate = -0.7 ± 1.4 mm/yr
 NUVEL model rate = -17.7 mm/yr

Wrms of fit = 19.8 mm

Reduced Chi square = 4.89



Observed Rate = 13.6 ± 3.5 mm/yr
 NUVEL model rate = 10.0 mm/yr

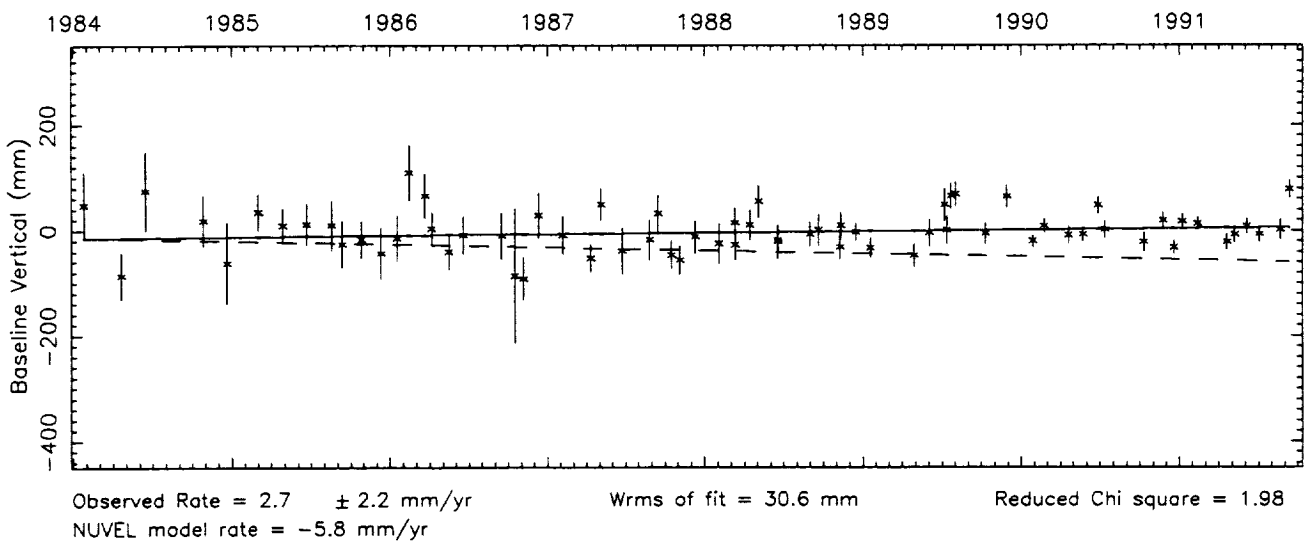
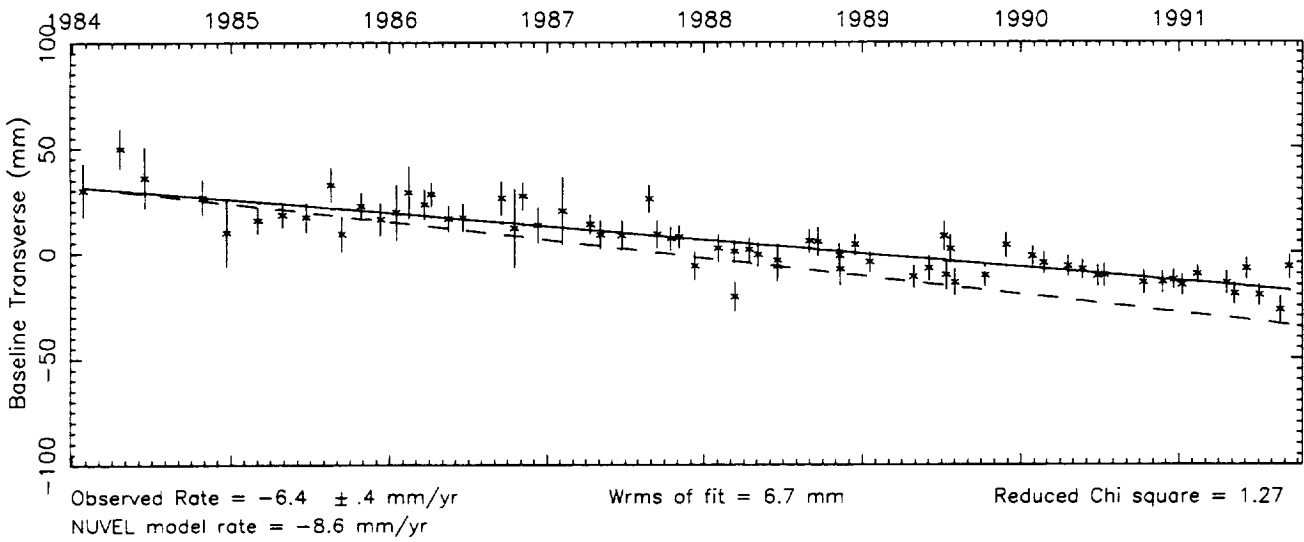
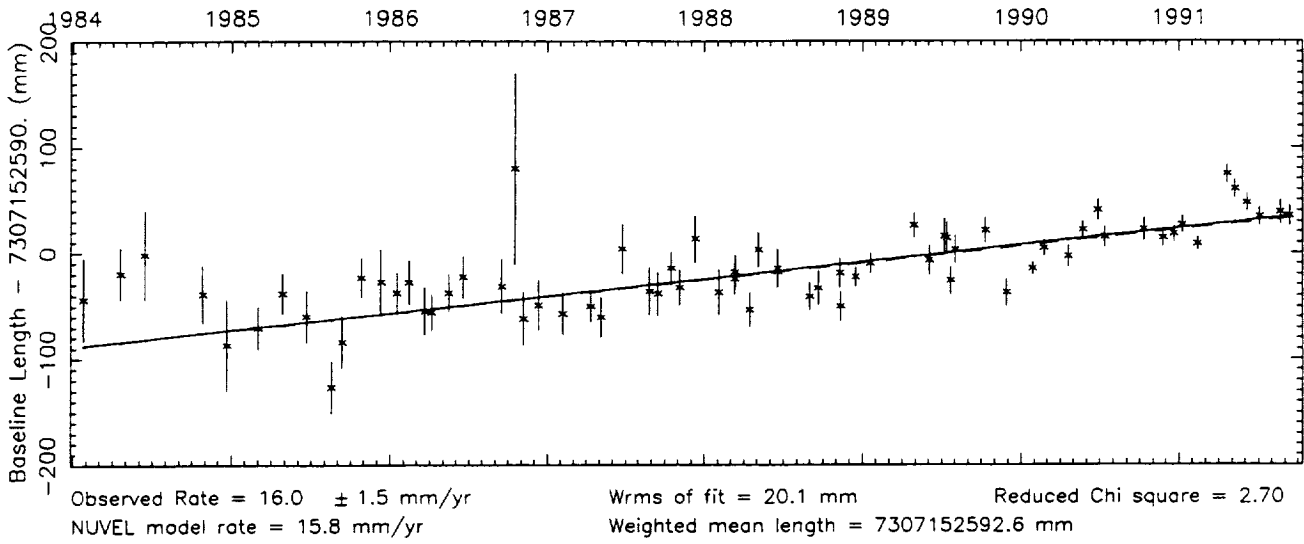
Wrms of fit = 50.3 mm

Reduced Chi square = 2.44

Vector baseline plots for ONSALA60-RICHMOND

Baseline length = 7307 kilometers

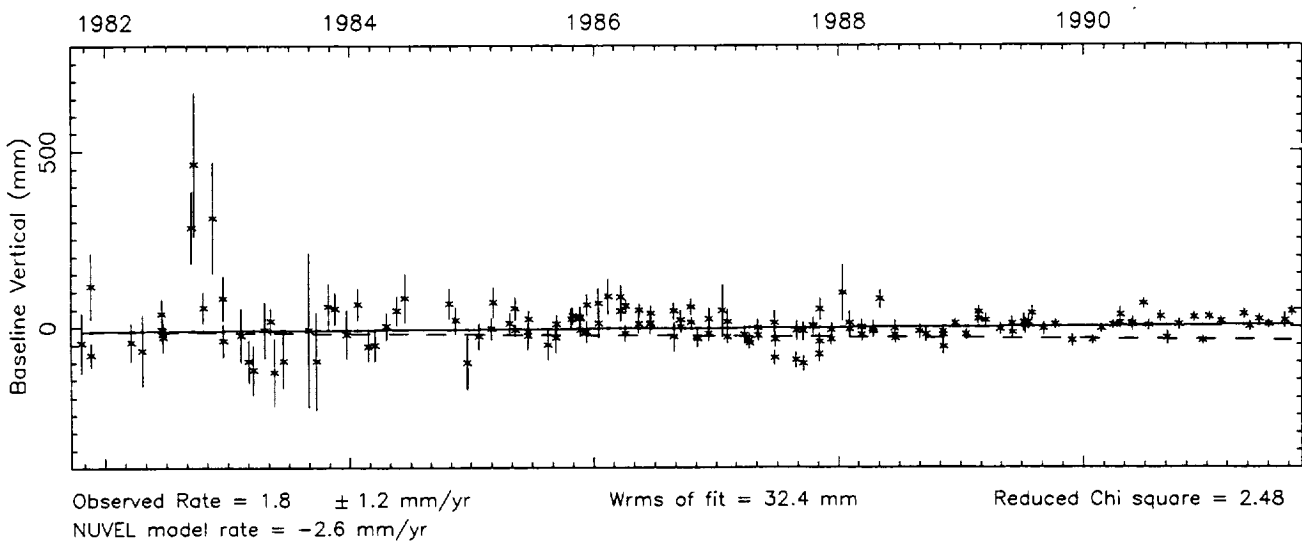
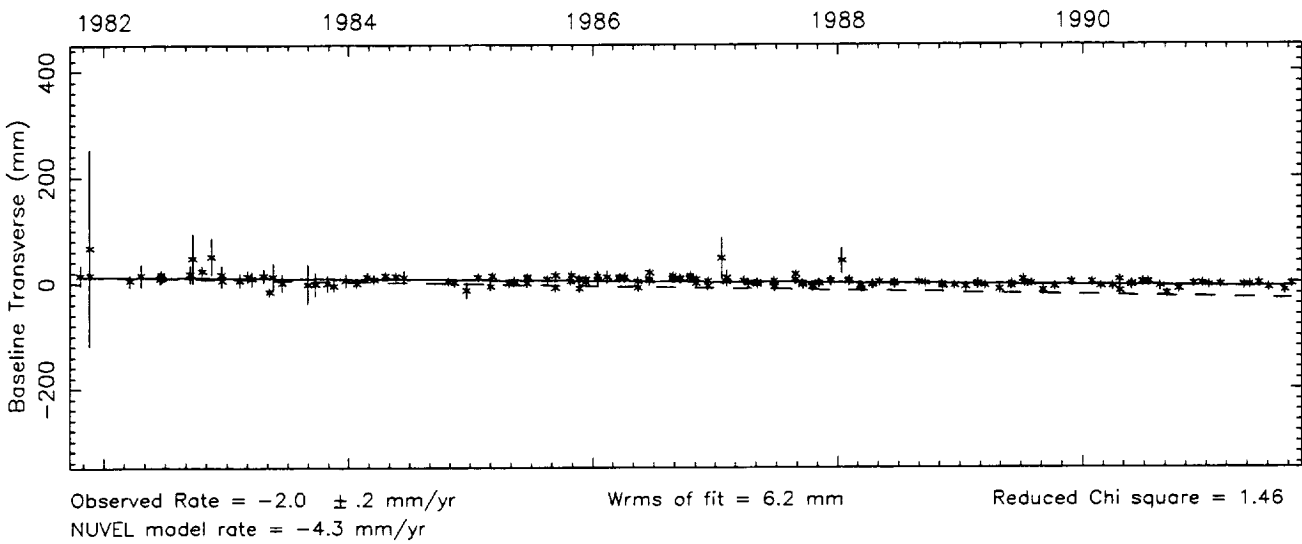
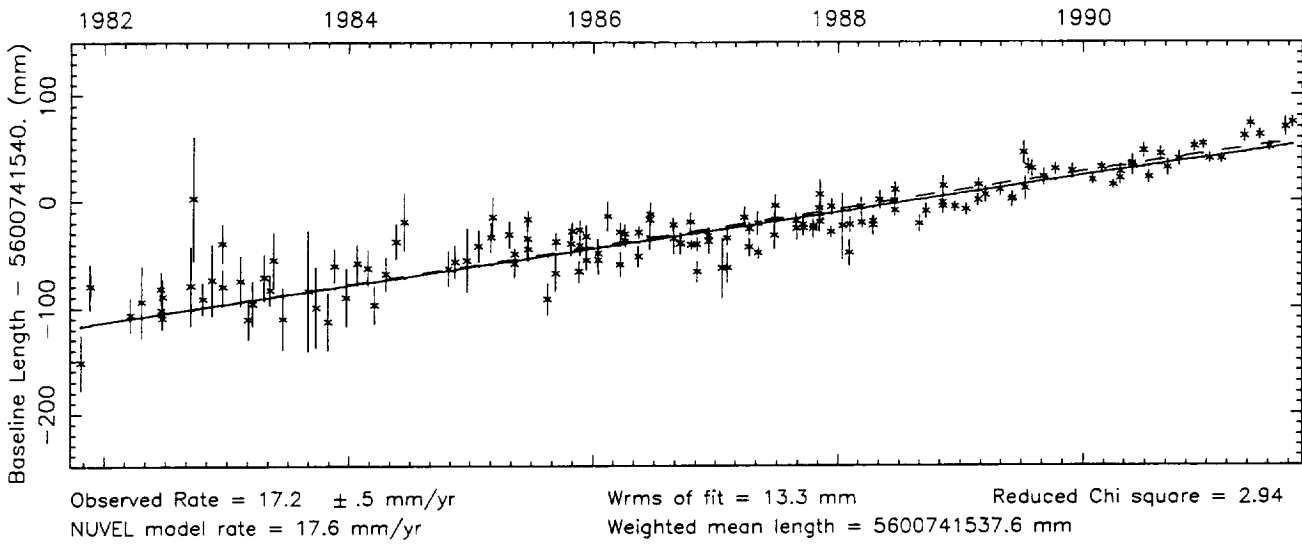
Number of sessions = 69



Vector baseline plots for ONSALA60-WESTFORD

Baseline length = 5601 kilometers

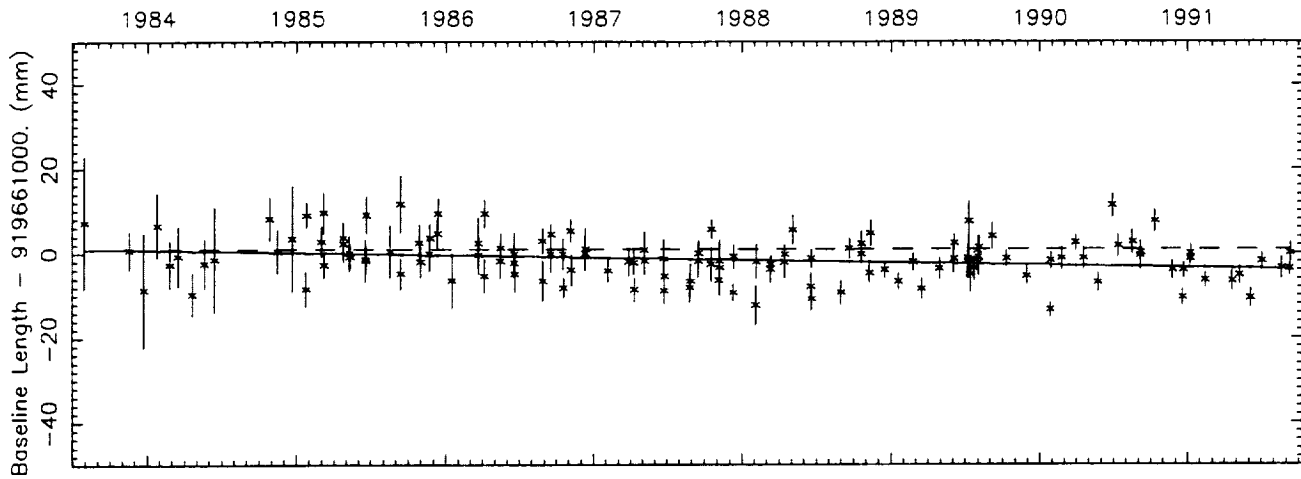
Number of sessions = 154



Vector baseline plots for ONSALA60-WETTZELL

Baseline length = 920 kilometers

Number of sessions = 136

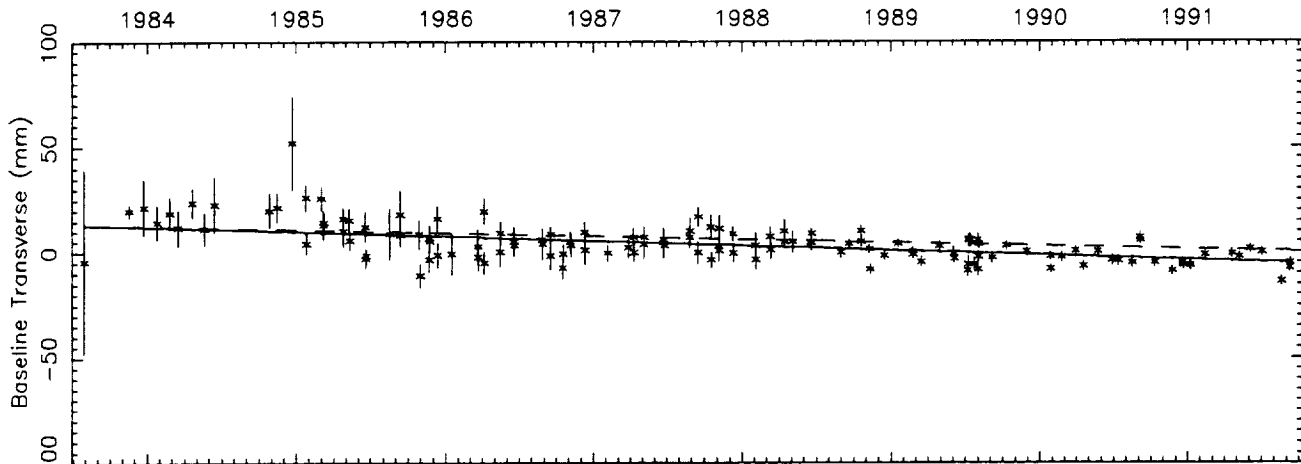


Observed Rate = -0.6 ± 0.2 mm/yr
 NUVEL model rate = 0.0 mm/yr

Wrms of fit = 4.7 mm

Reduced Chi square = 2.71

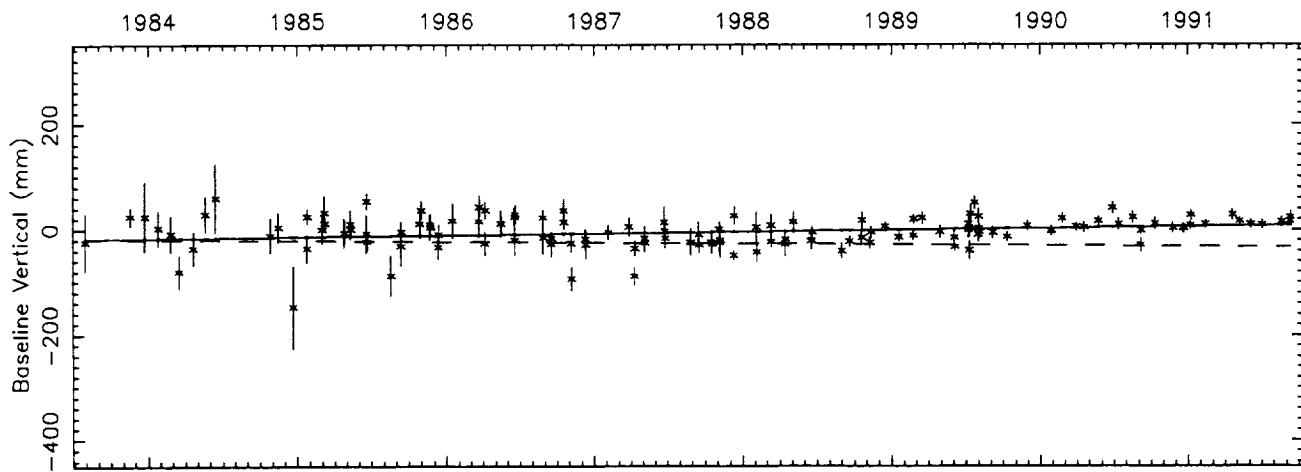
Weighted mean length = 919660997.8 mm



Observed Rate = -2.3 ± 0.2 mm/yr
 NUVEL model rate = -1.6 mm/yr

Wrms of fit = 4.8 mm

Reduced Chi square = 2.73



Observed Rate = 3.2 ± 1.0 mm/yr
 NUVEL model rate = -1.8 mm/yr

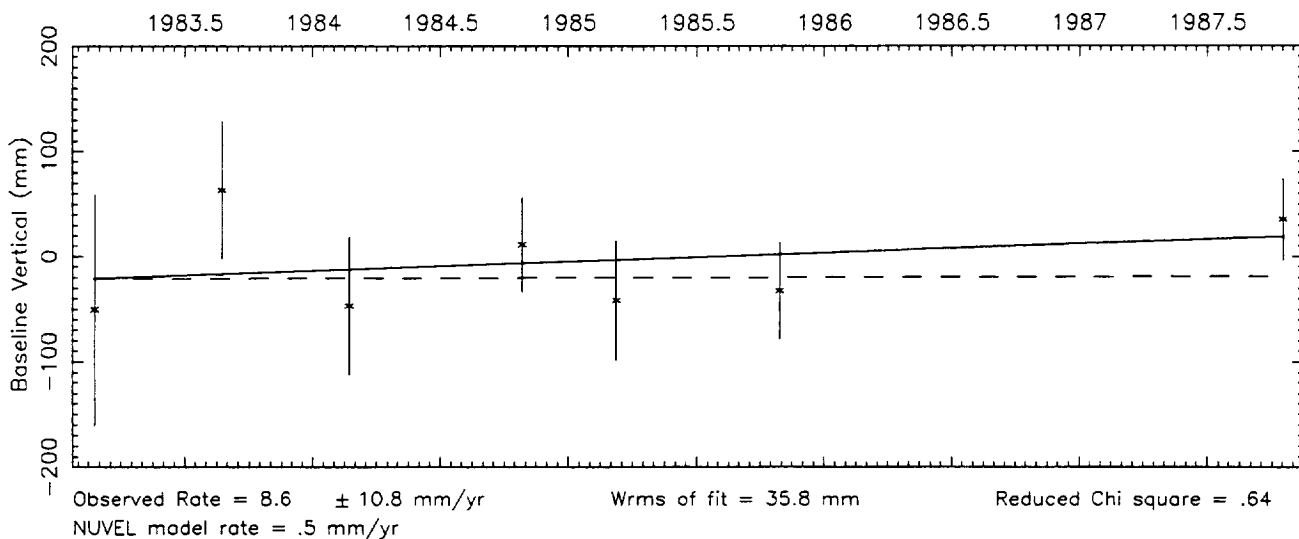
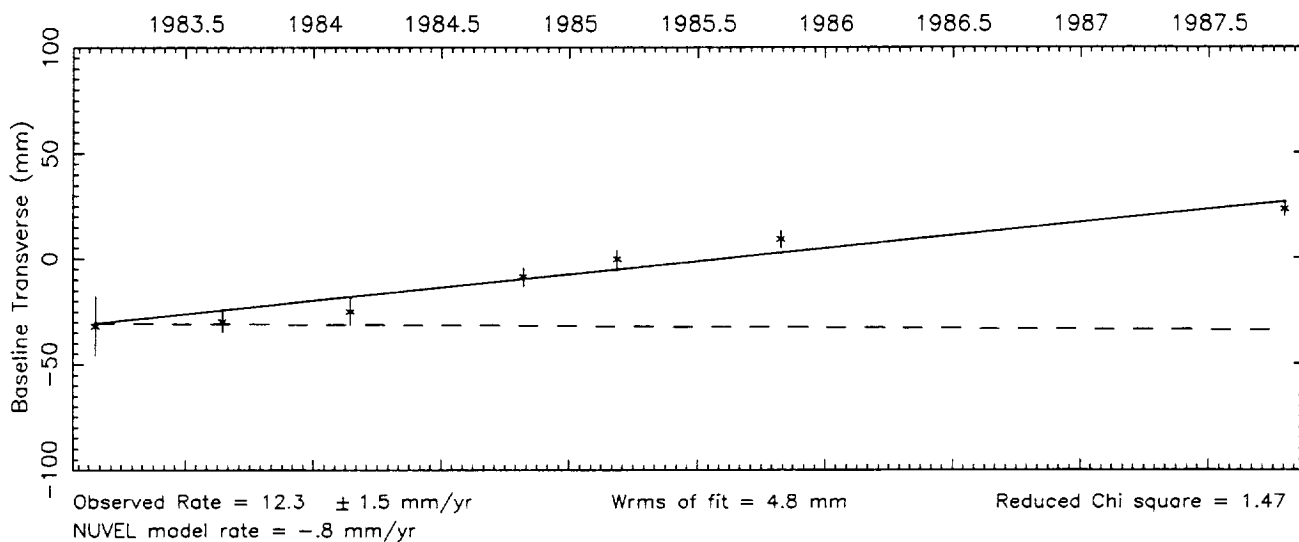
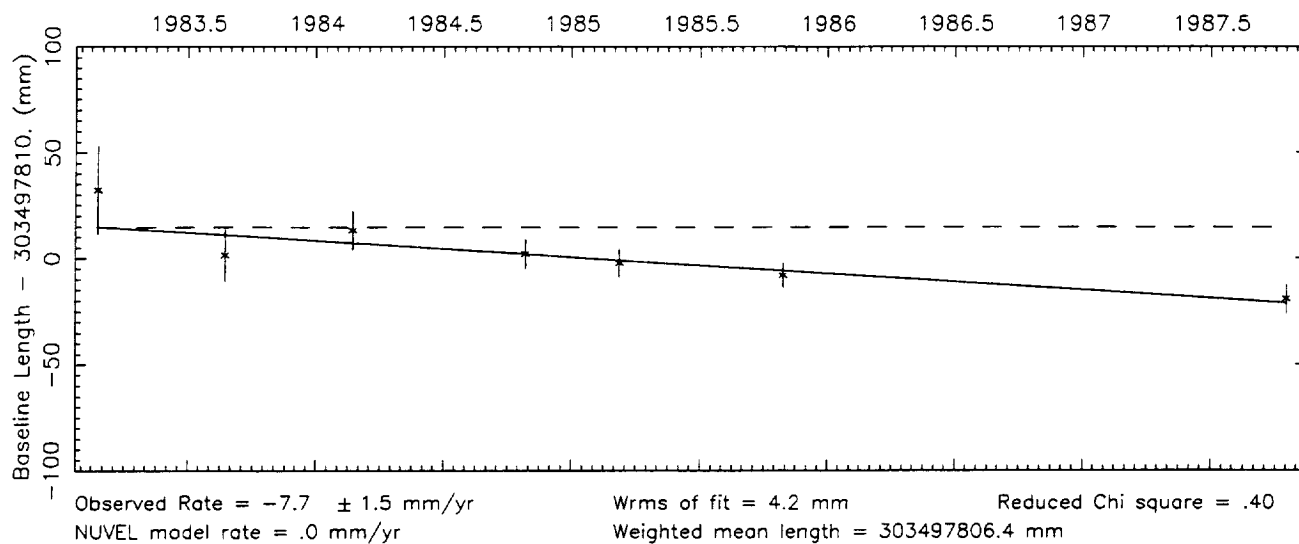
Wrms of fit = 20.1 mm

Reduced Chi square = 2.51

Vector baseline plots for OVRO 130-PBLOSSOM

Baseline length = 303 kilometers

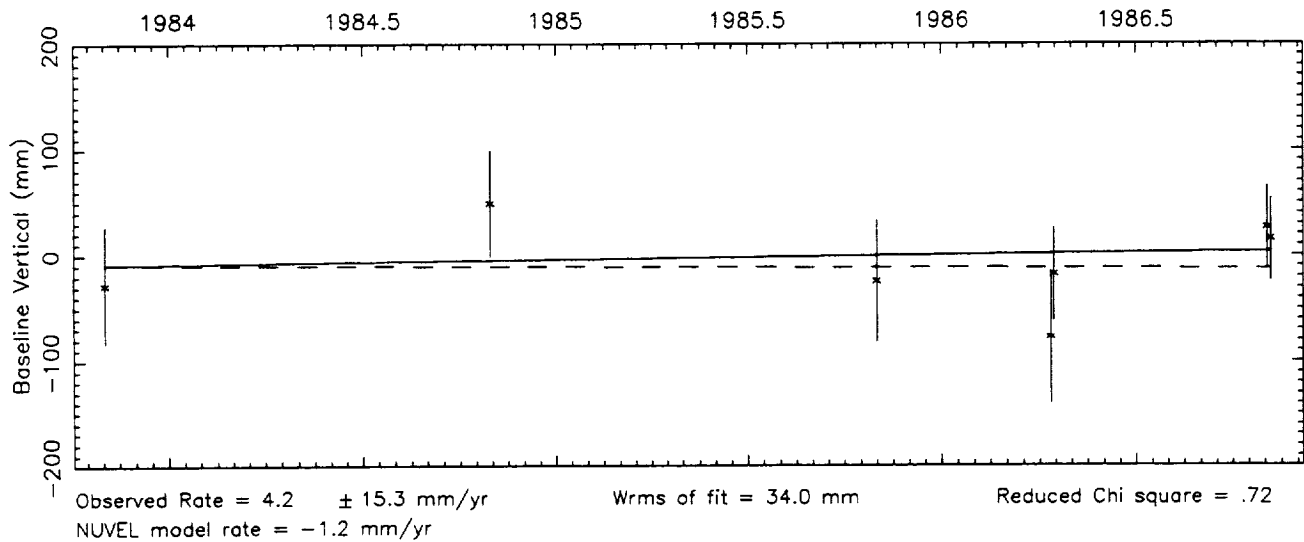
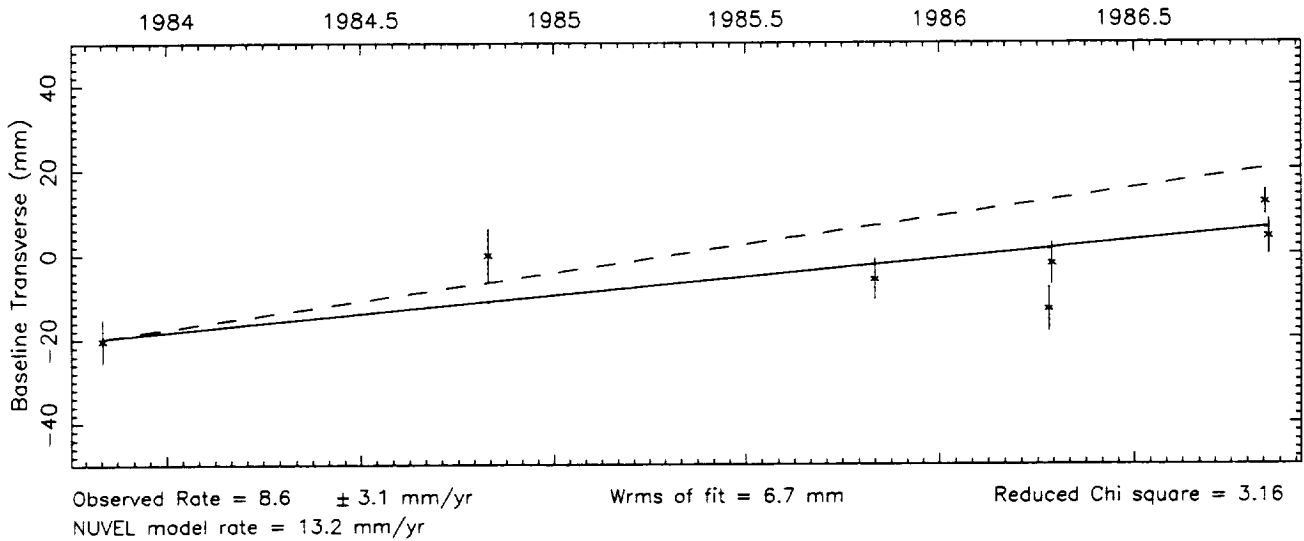
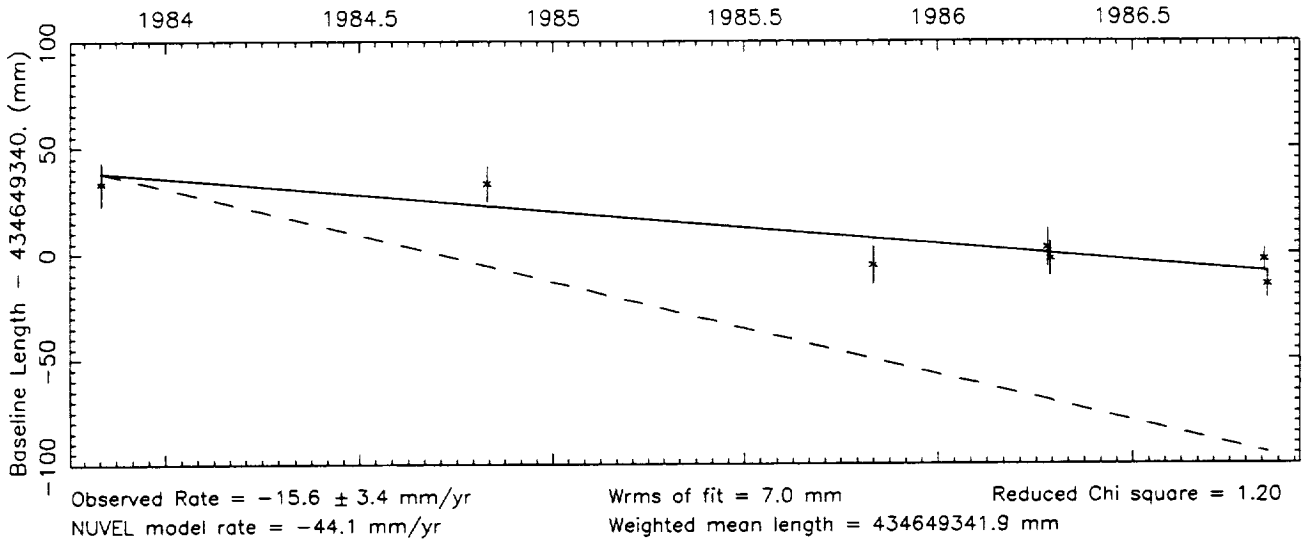
Number of sessions = 7



Vector baseline plots for OVRO 130-PINFLATS

Baseline length = 435 kilometers

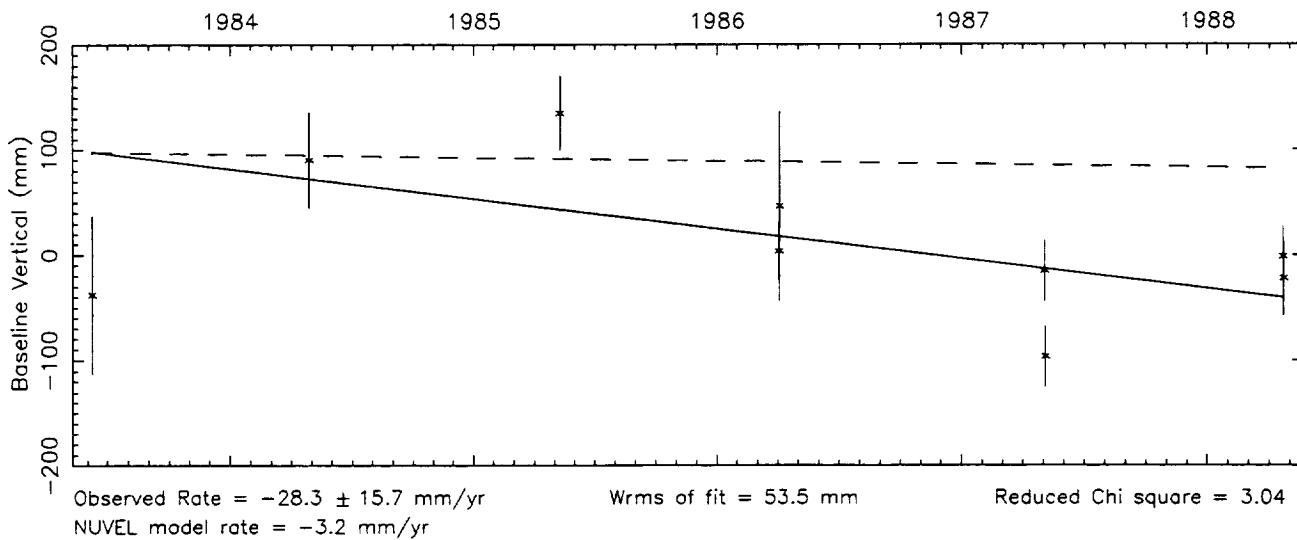
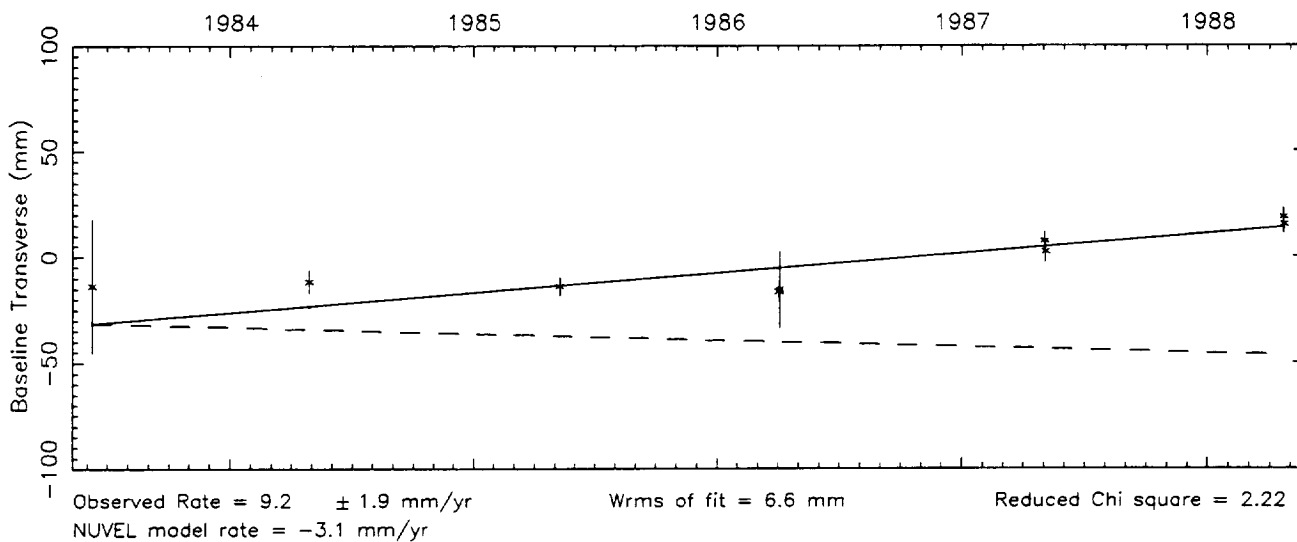
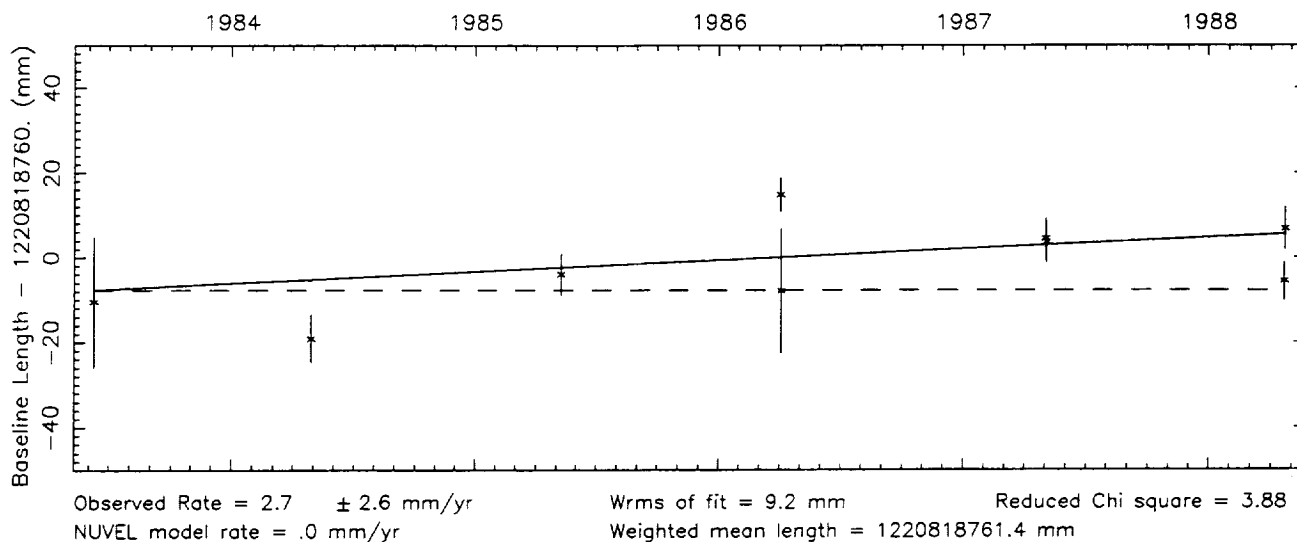
Number of sessions = 7



Vector baseline plots for OVRO 130-PLATTVIL

Baseline length = 1221 kilometers

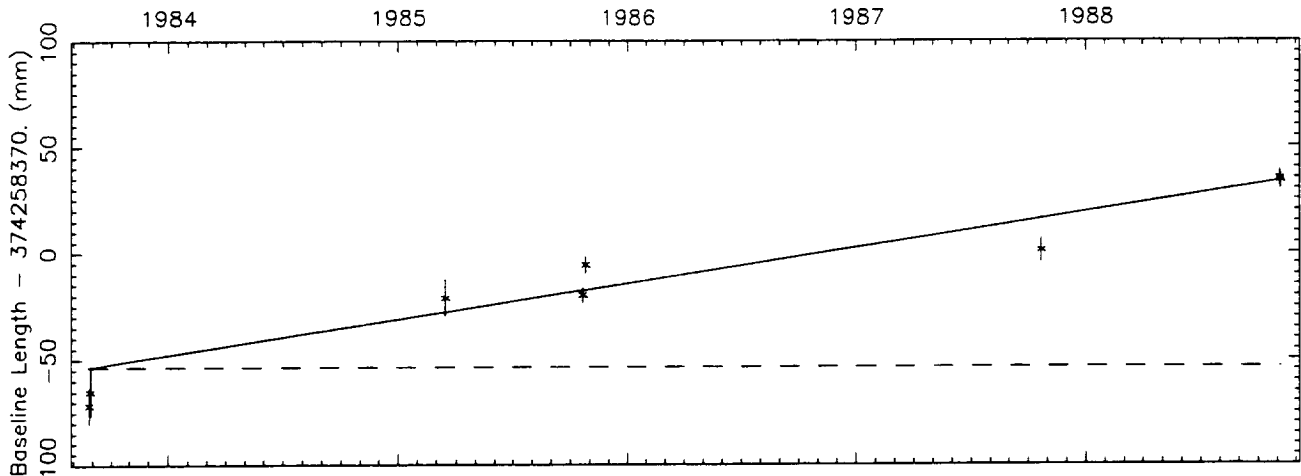
Number of sessions = 9



Vector baseline plots for OVRO 130-PRESIDIO

Baseline length = 374 kilometers

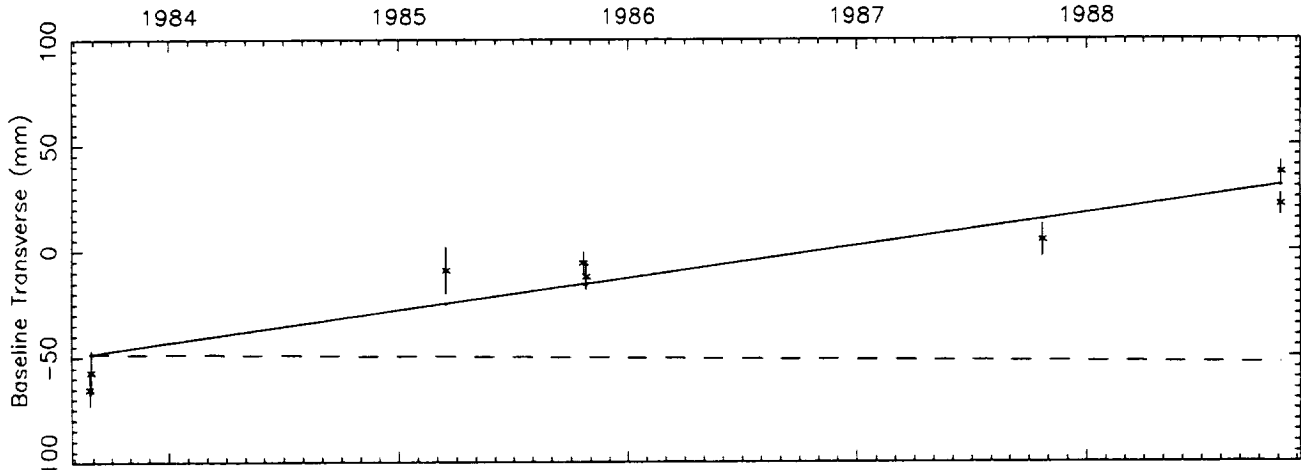
Number of sessions = 8



Observed Rate = 16.8 ± 2.1 mm/yr
 NUVEL model rate = $.0$ mm/yr

Wrms of fit = 8.3 mm
 Weighted mean length = 374258371.0 mm

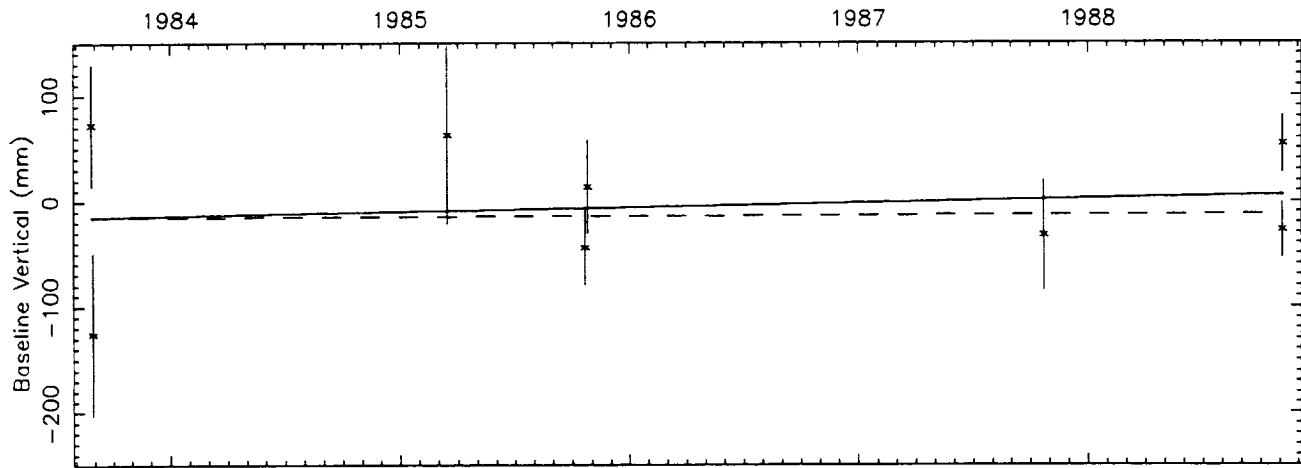
Reduced Chi square = 3.91



Observed Rate = 15.2 ± 2.1 mm/yr
 NUVEL model rate = $-.9$ mm/yr

Wrms of fit = 9.5 mm

Reduced Chi square = 2.92



Observed Rate = 4.2 ± 10.8 mm/yr
 NUVEL model rate = $.6$ mm/yr

Wrms of fit = 47.9 mm

Reduced Chi square = 1.94

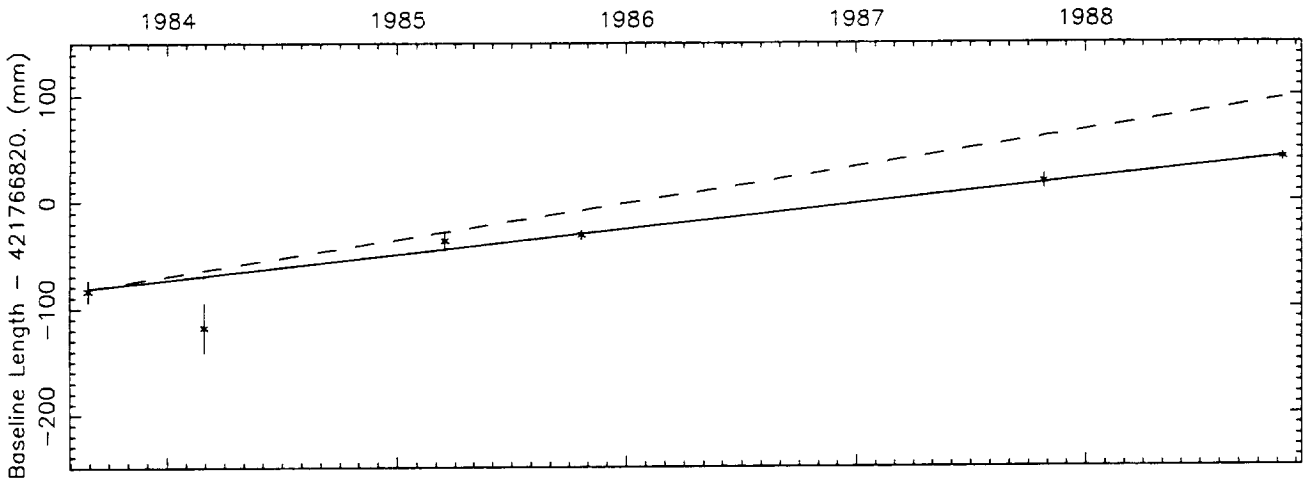
7.180

0-5

Vector baseline plots for OVRO 130-PT REYES

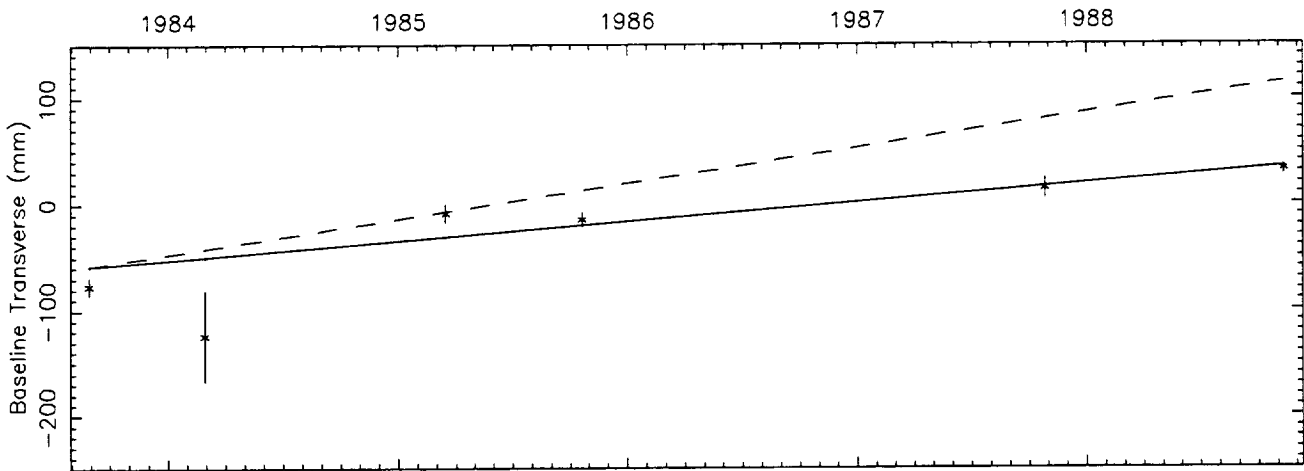
Baseline length = 422 kilometers

Number of sessions = 6



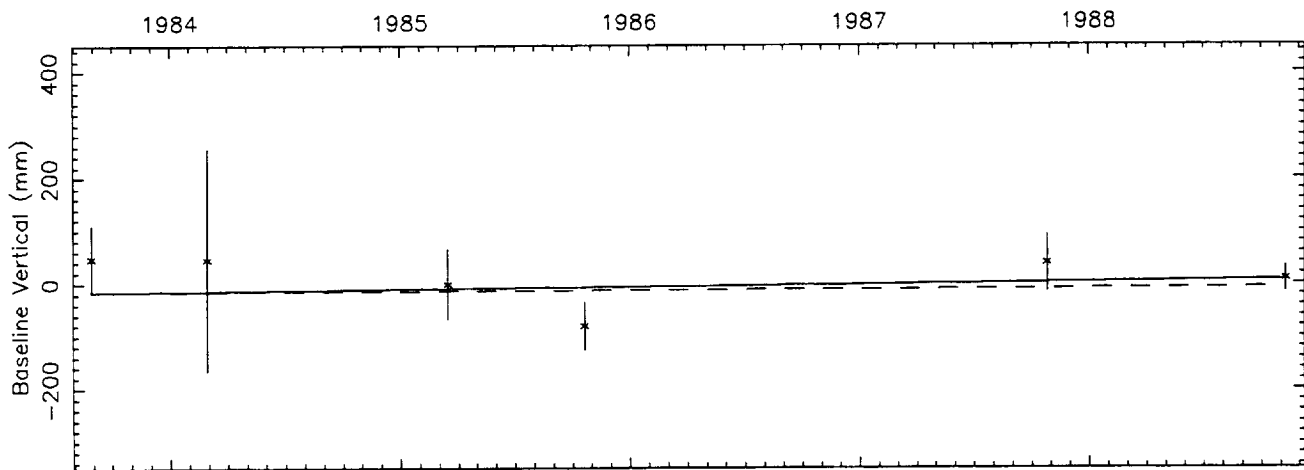
Observed Rate = 23.7 ± 1.7 mm/yr
 NUVEL model rate = 34.2 mm/yr

Wrms of fit = 6.0 mm Reduced Chi square = 1.47
 Weighted mean length = 421766819.4 mm



Observed Rate = 17.8 ± 3.1 mm/yr
 NUVEL model rate = 33.2 mm/yr

Wrms of fit = 11.9 mm Reduced Chi square = 3.90



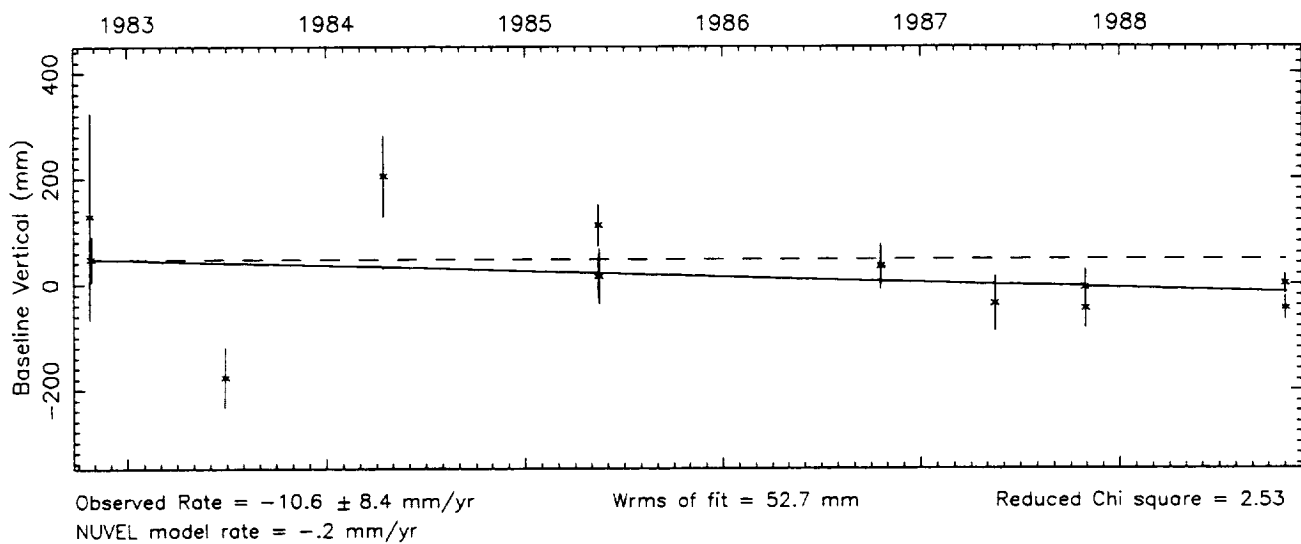
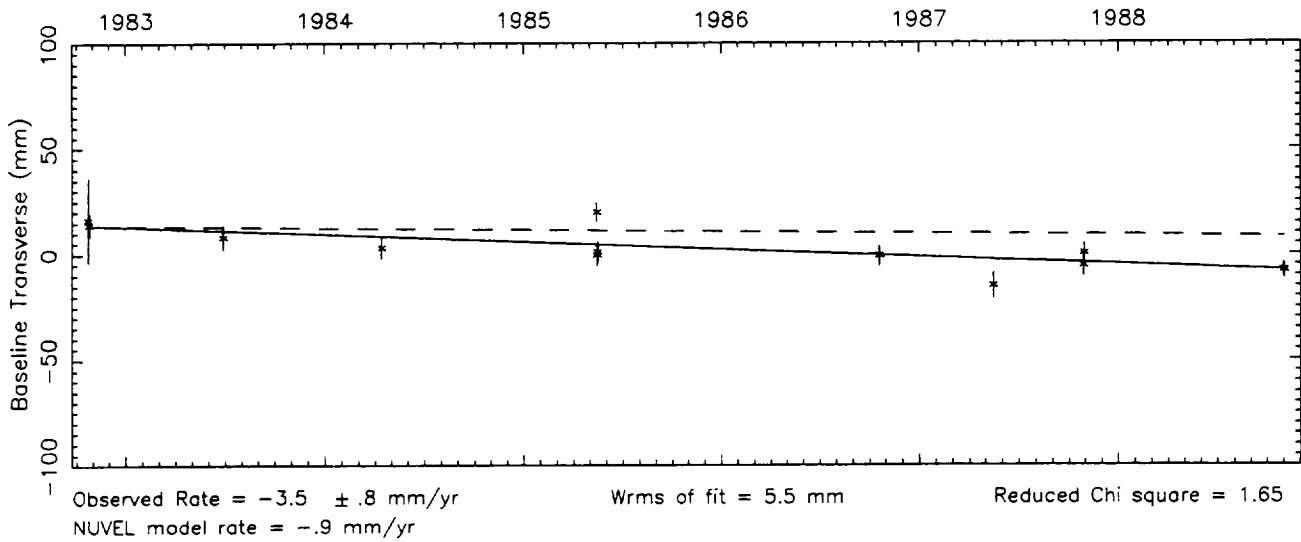
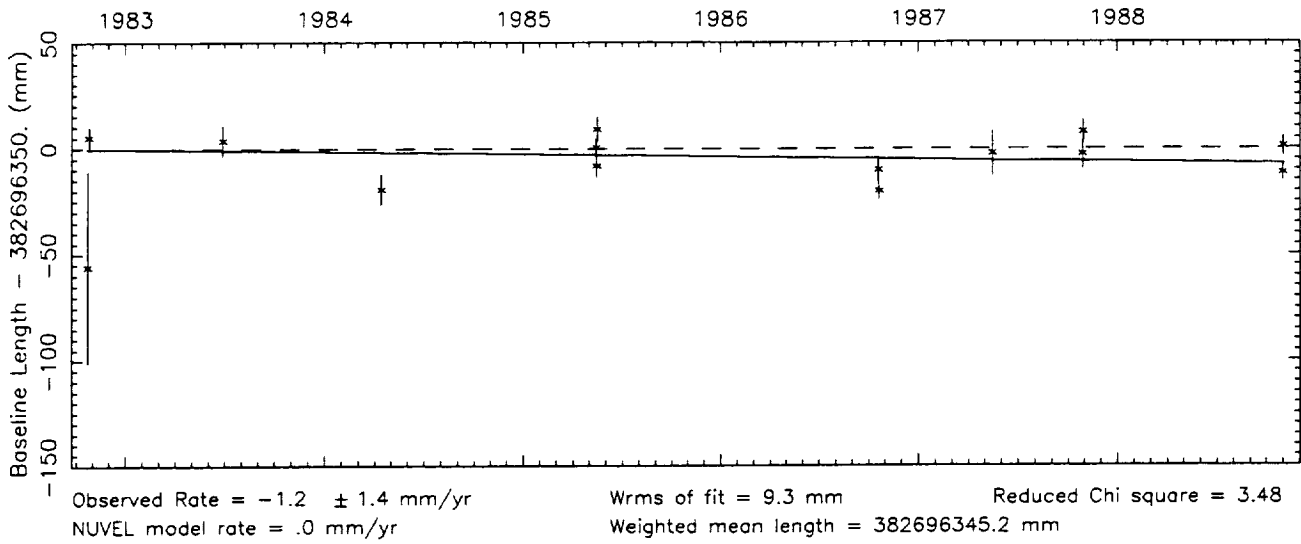
Observed Rate = 4.2 ± 10.4 mm/yr
 NUVEL model rate = 1.6 mm/yr

Wrms of fit = 37.7 mm Reduced Chi square = 1.02

Vector baseline plots for OVRO 130-QUINCY

Baseline length = 383 kilometers

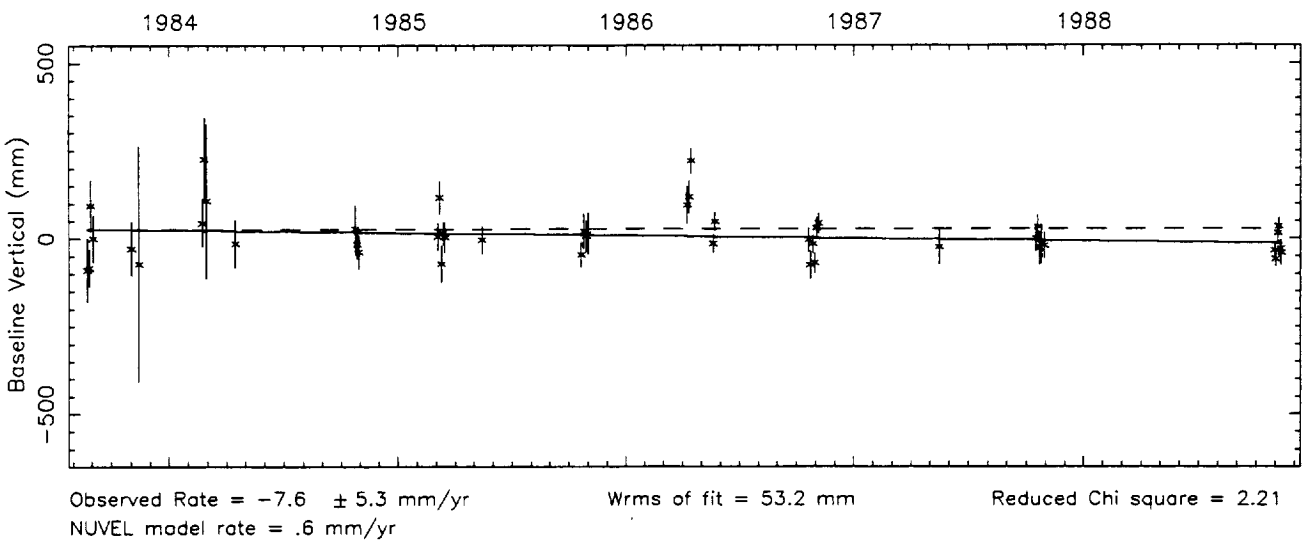
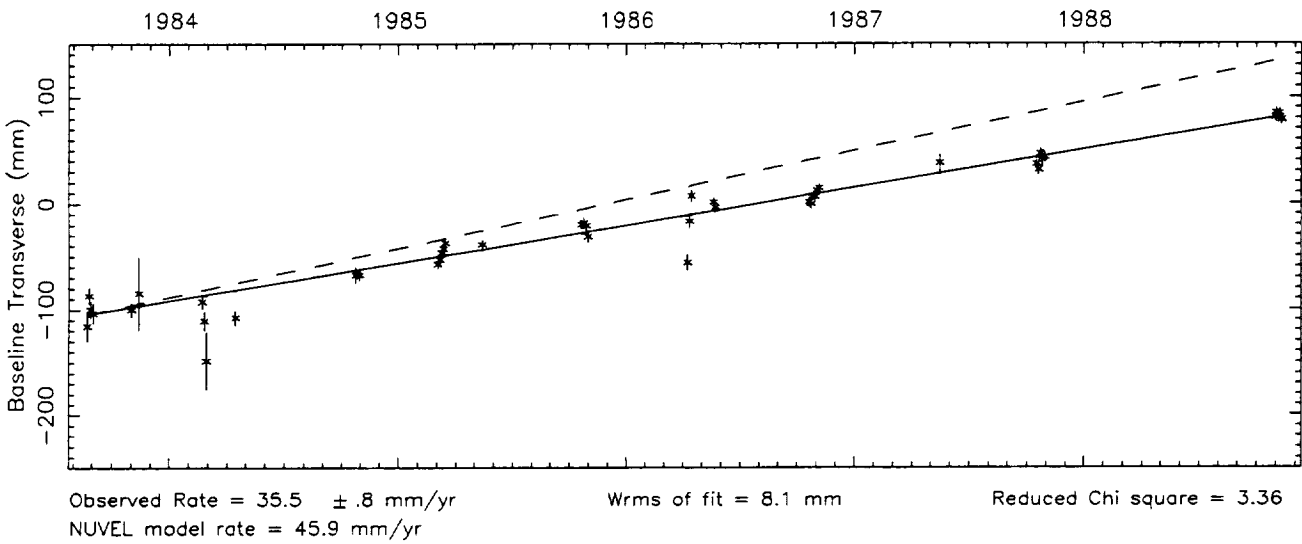
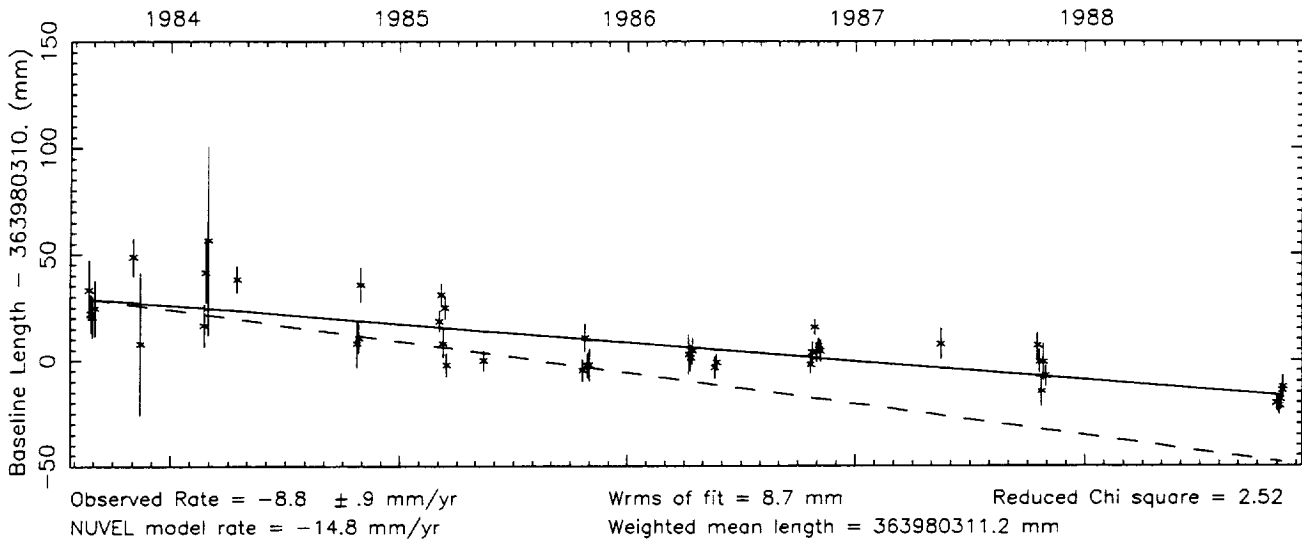
Number of sessions = 14



Vector baseline plots for OVRO 130-VNDNBERG

Baseline length = 364 kilometers

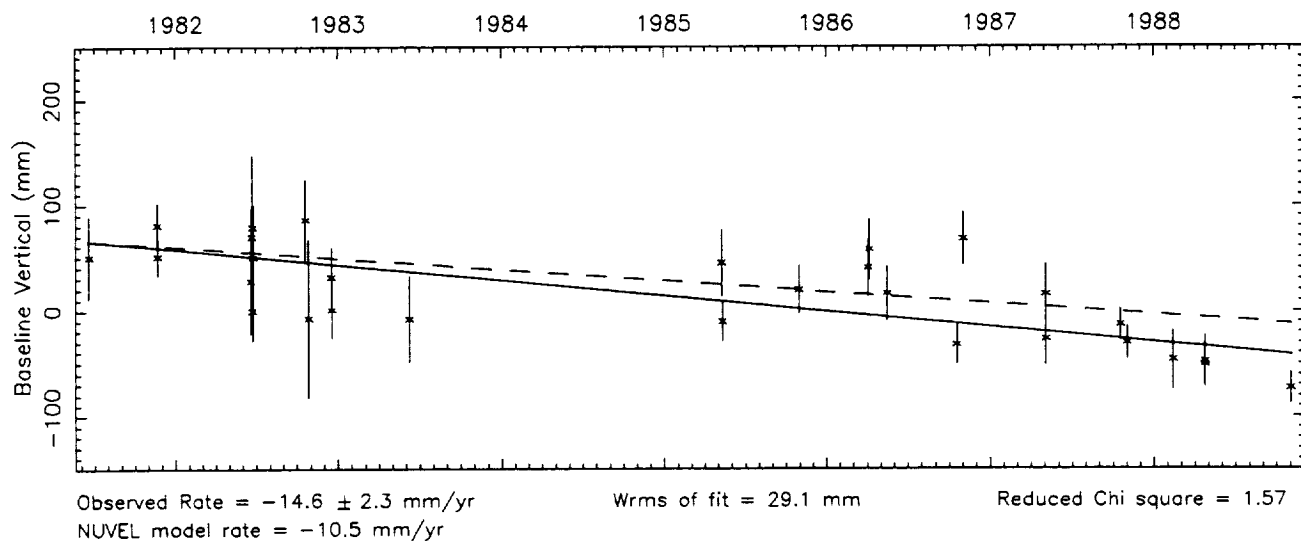
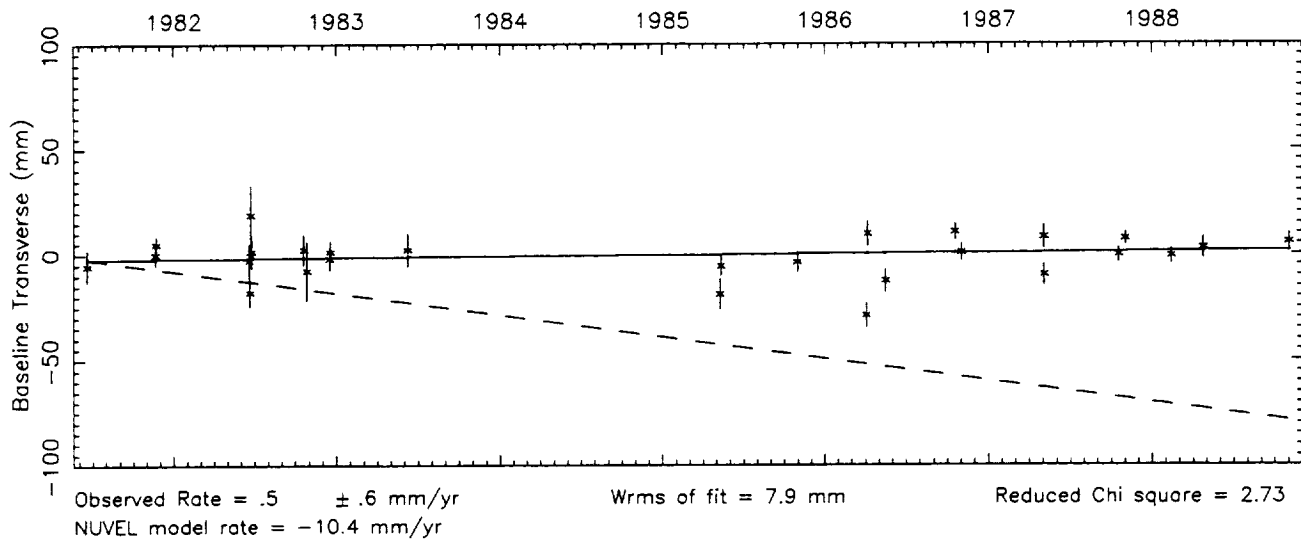
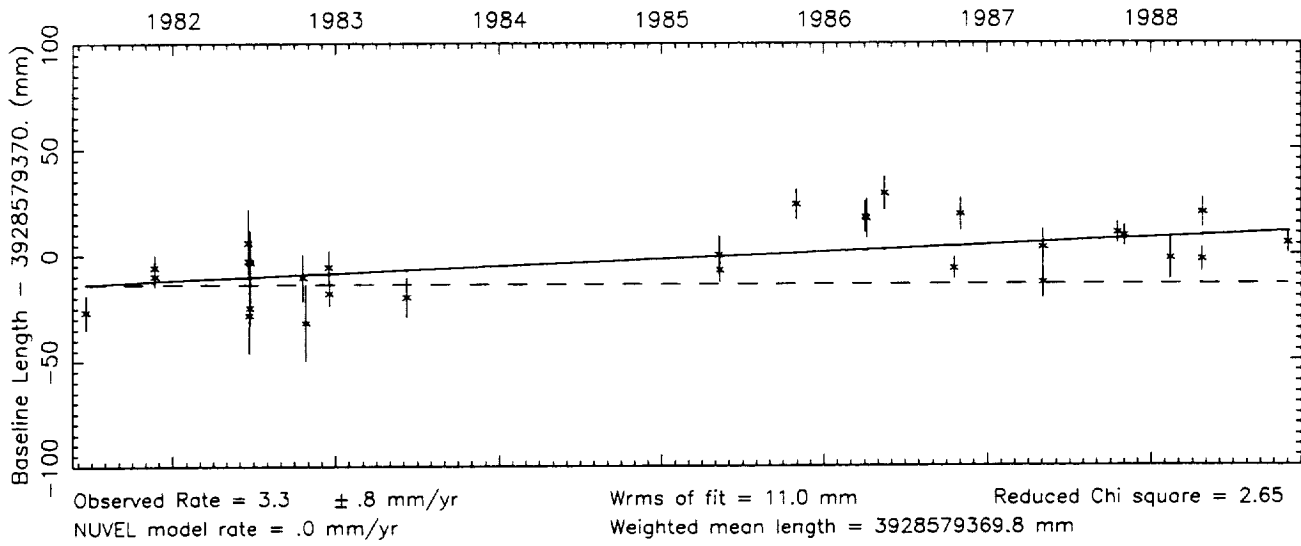
Number of sessions = 46



Vector baseline plots for OVRO 130-WESTFORD

Baseline length = 3929 kilometers

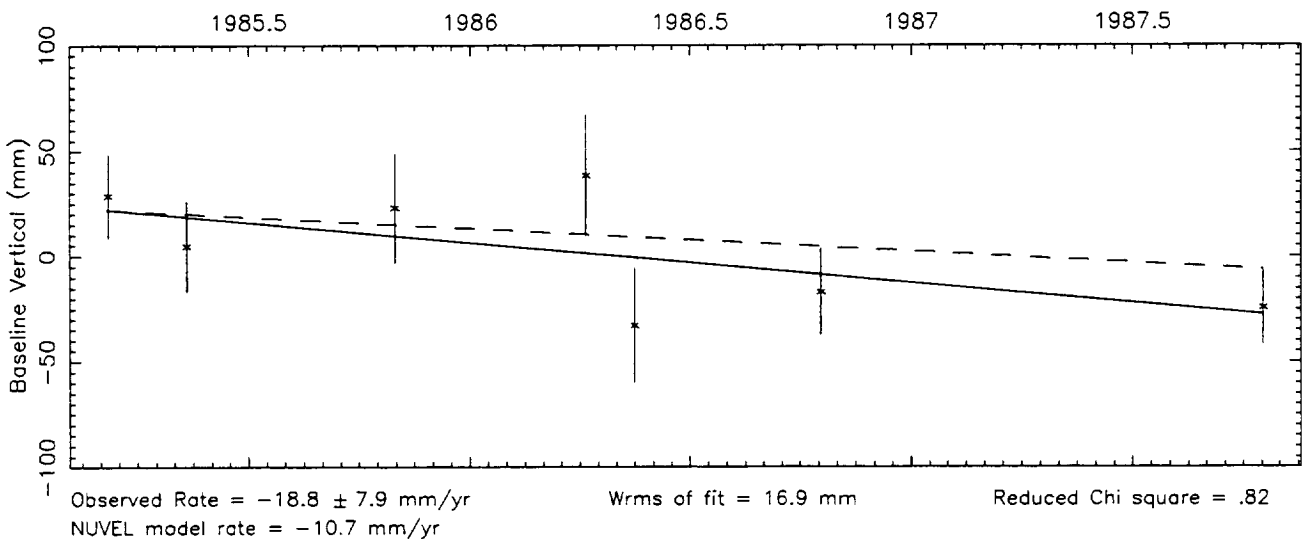
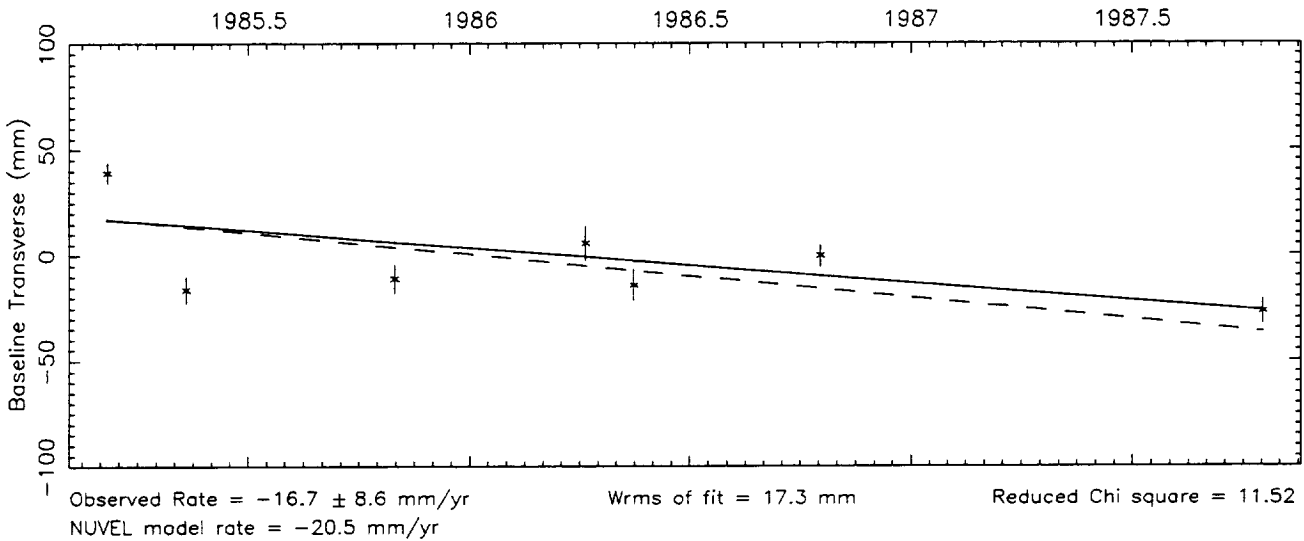
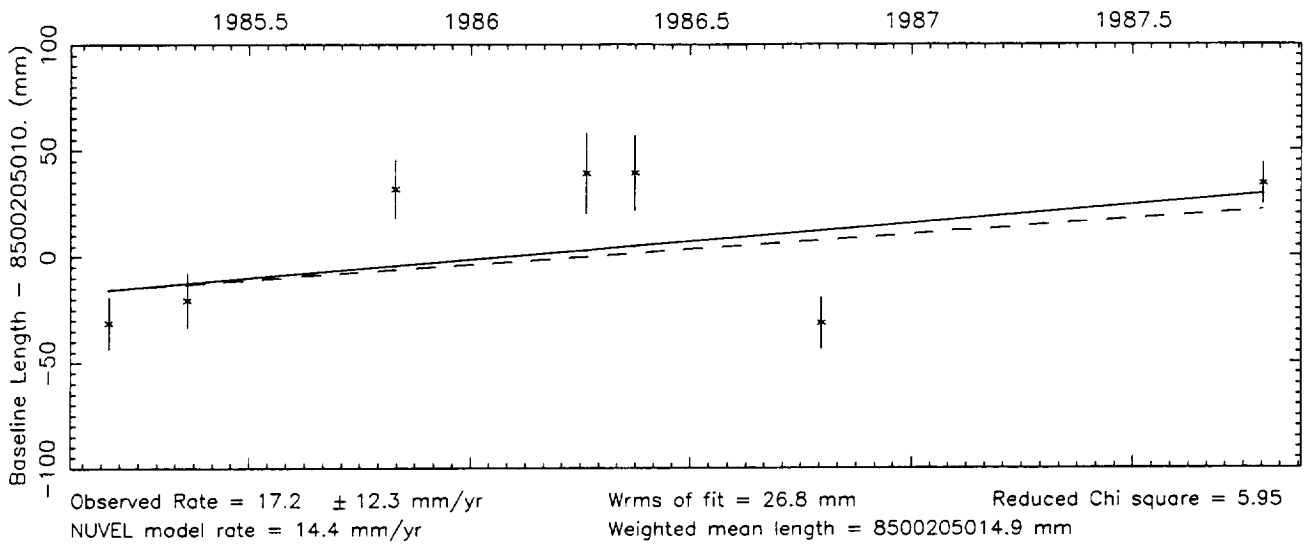
Number of sessions = 29



Vector baseline plots for OVRO 130-WETTZELL

Baseline length = 8500 kilometers

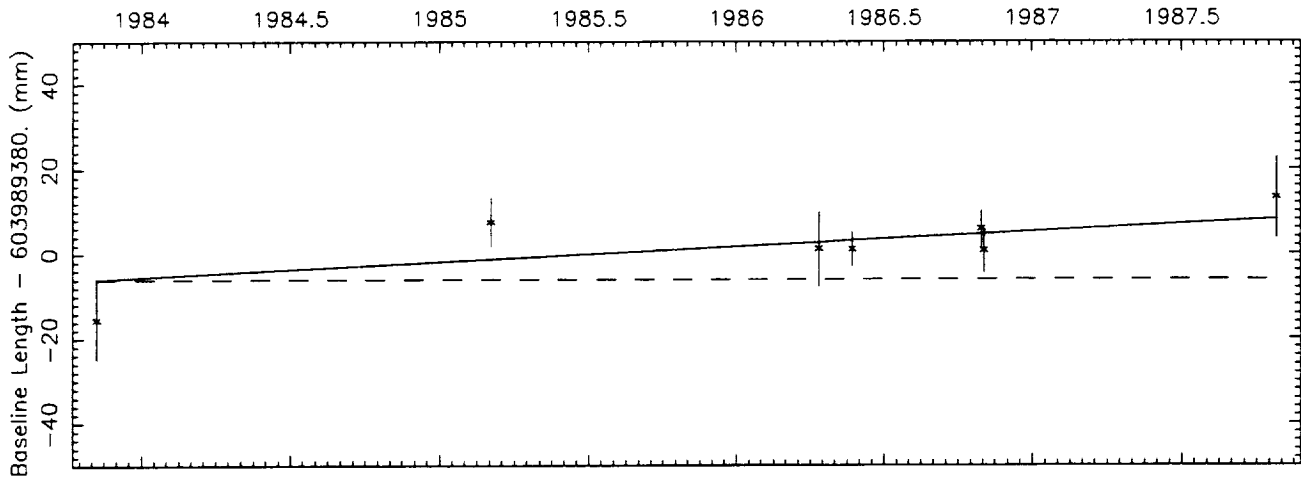
Number of sessions = 7



Vector baseline plots for OVRO 130-YUMA

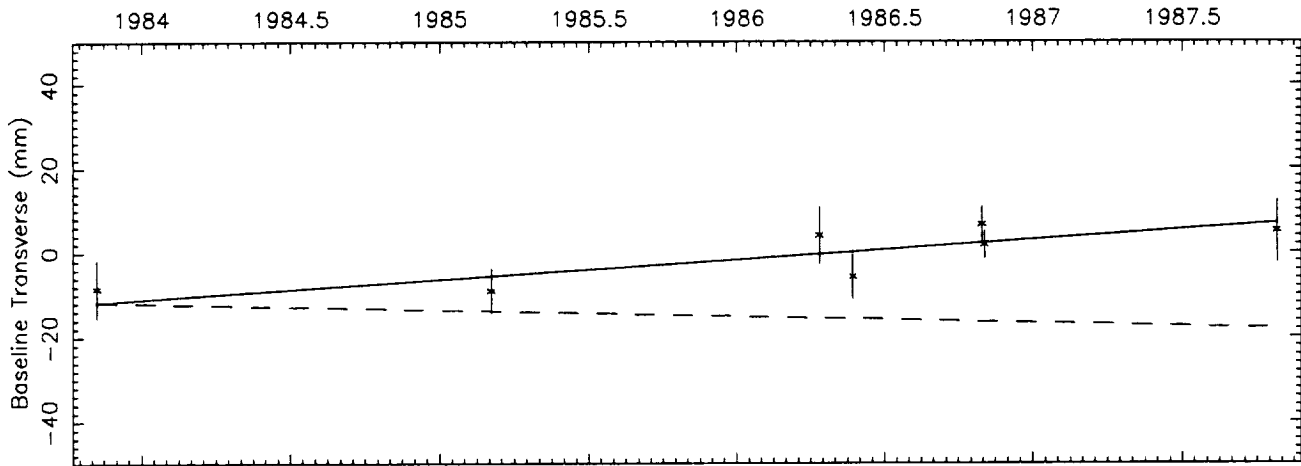
Baseline length = 604 kilometers

Number of sessions = 7



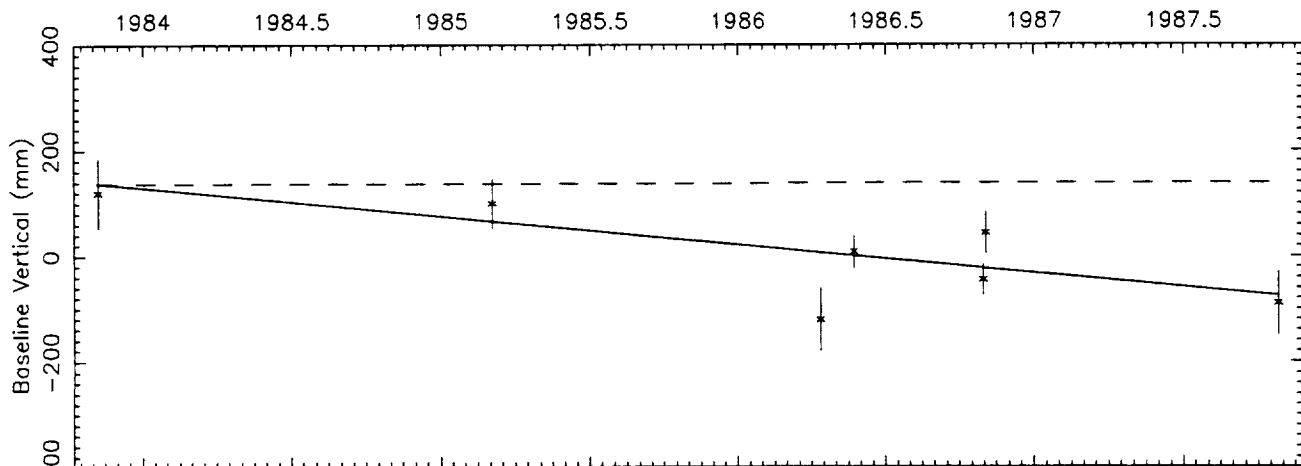
Observed Rate = 3.5 ± 2.4 mm/yr
 NUVEL model rate = .0 mm/yr

Wrms of fit = 4.6 mm Reduced Chi square = .92
 Weighted mean length = 603989382.8 mm



Observed Rate = 4.7 ± 1.6 mm/yr
 NUVEL model rate = -1.6 mm/yr

Wrms of fit = 3.5 mm Reduced Chi square = .70



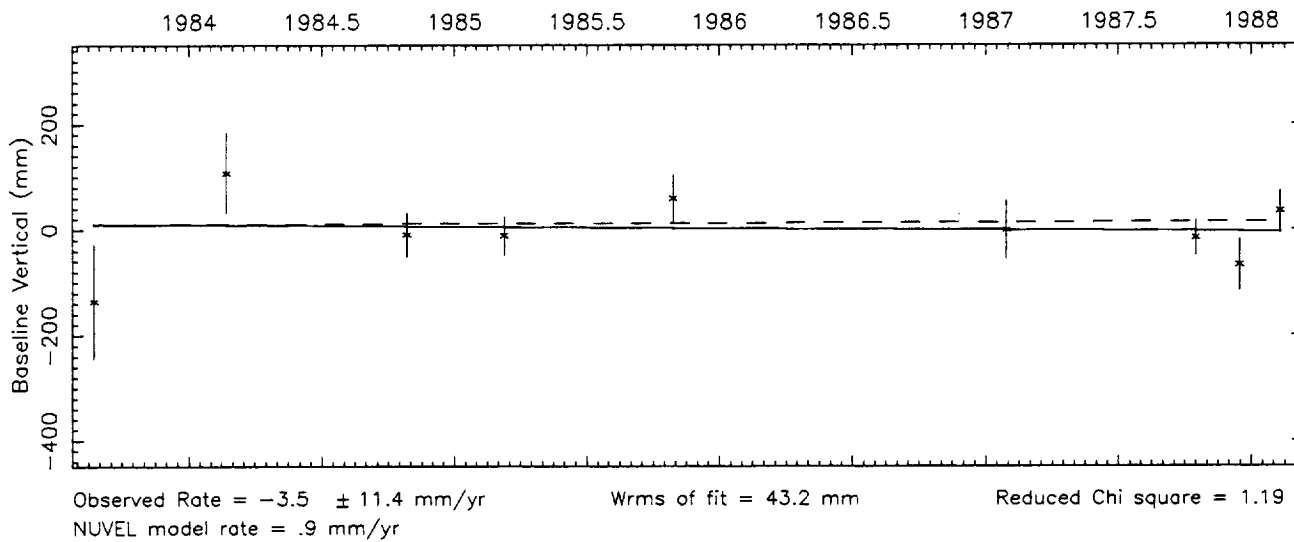
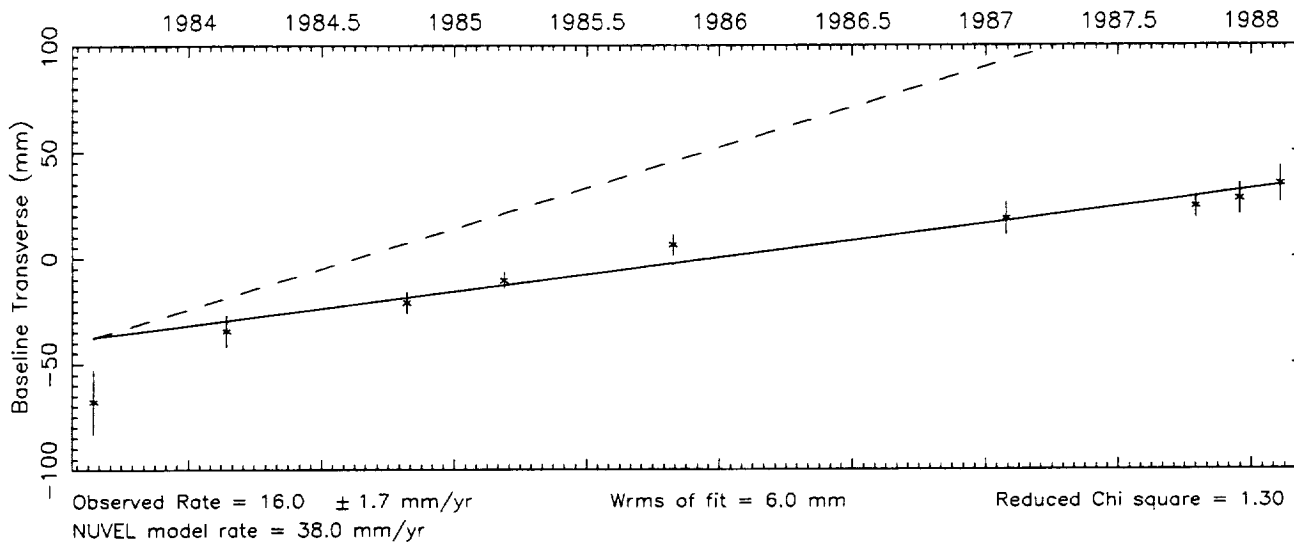
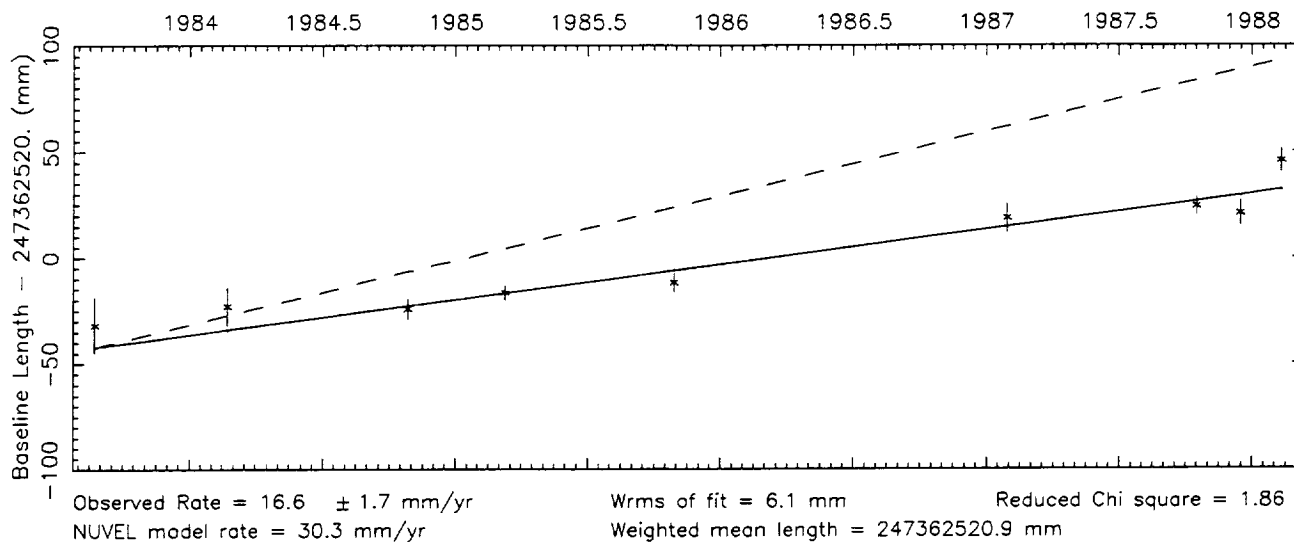
Observed Rate = -54.0 ± 24.0 mm/yr
 NUVEL model rate = .2 mm/yr

Wrms of fit = 46.4 mm Reduced Chi square = 1.80

Vector baseline plots for PBLOSSOM-VNDNBERG

Baseline length = 247 kilometers

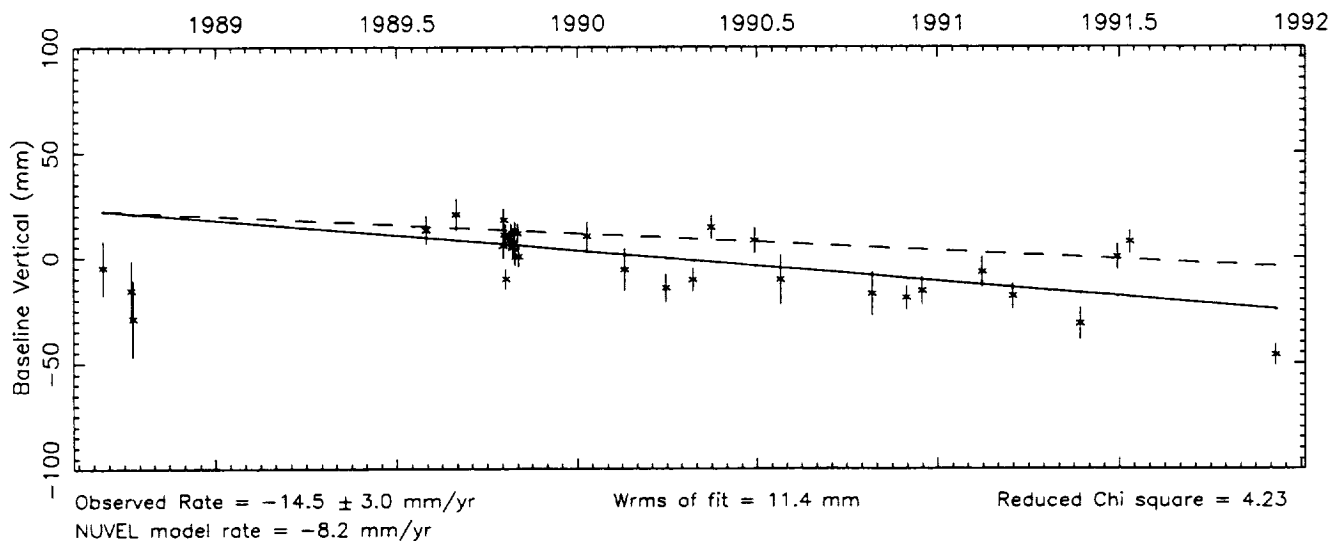
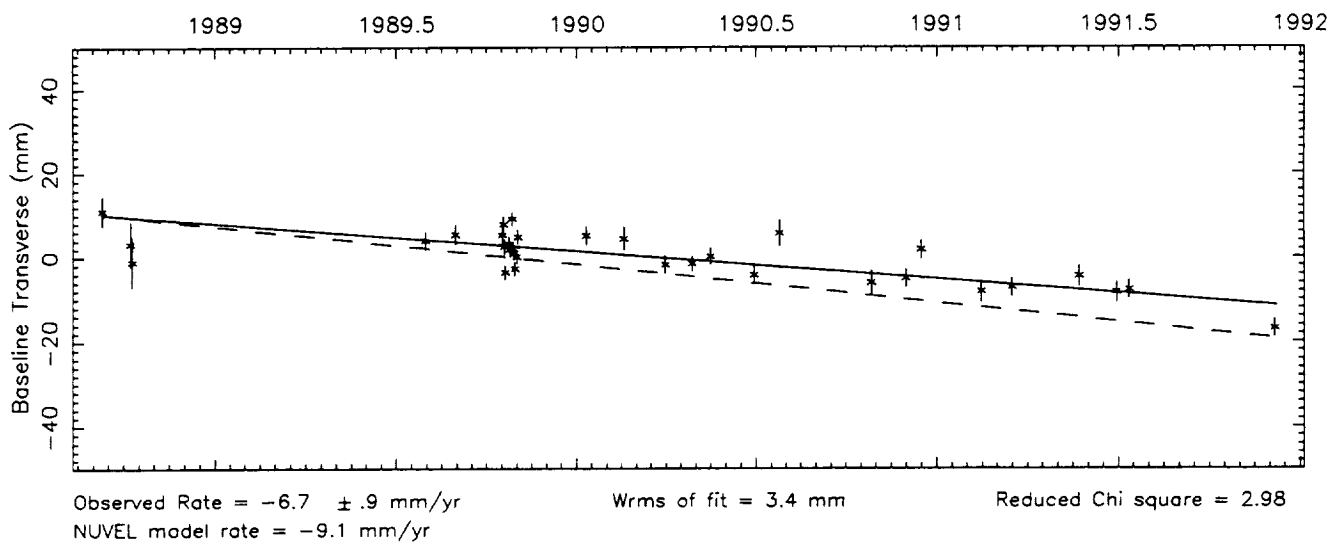
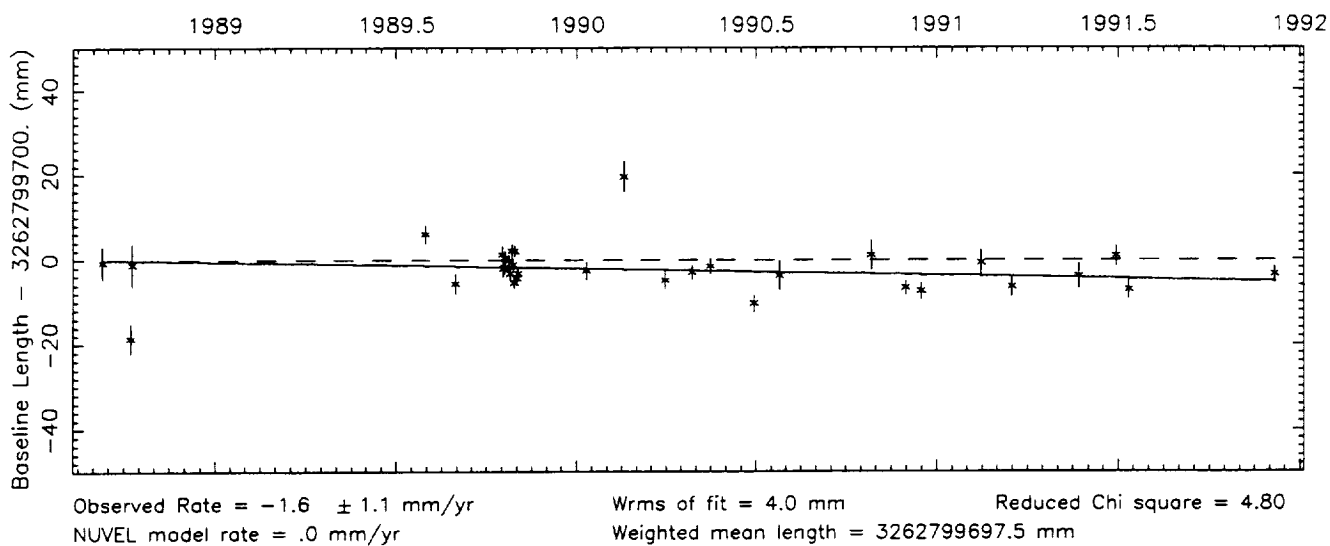
Number of sessions = 9



Vector baseline plots for PIETOWN -WESTFORD

Baseline length = 3263 kilometers

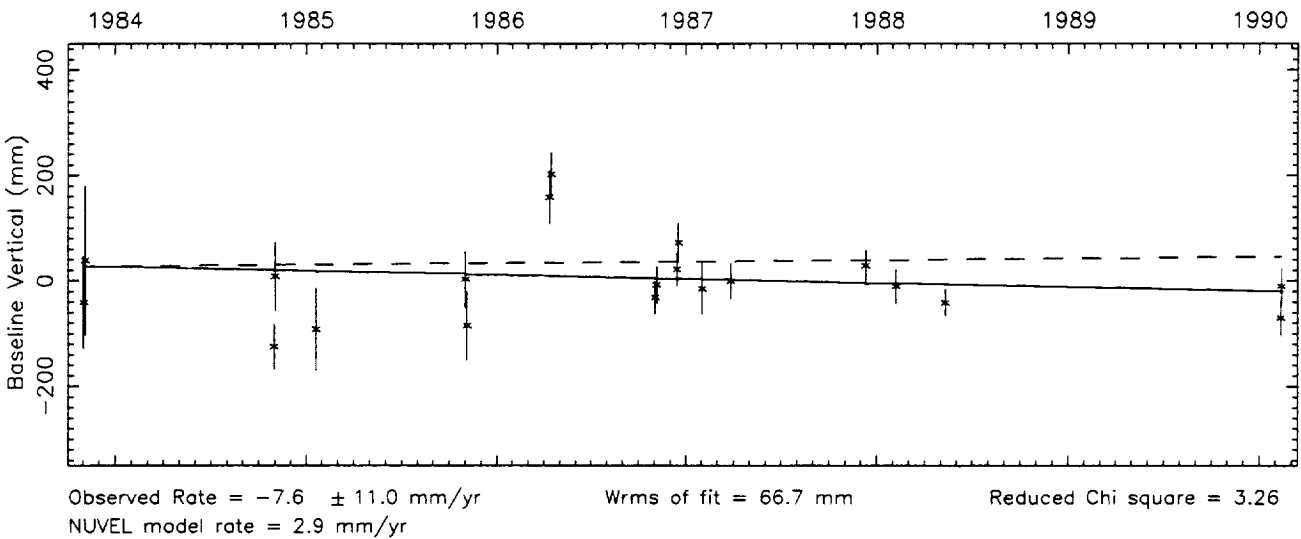
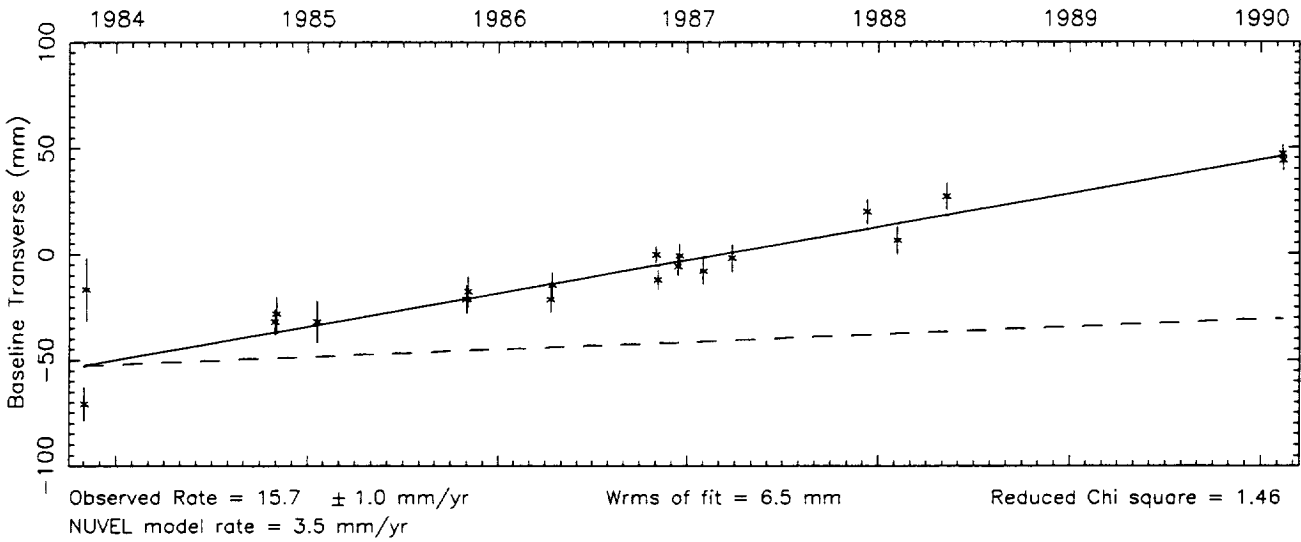
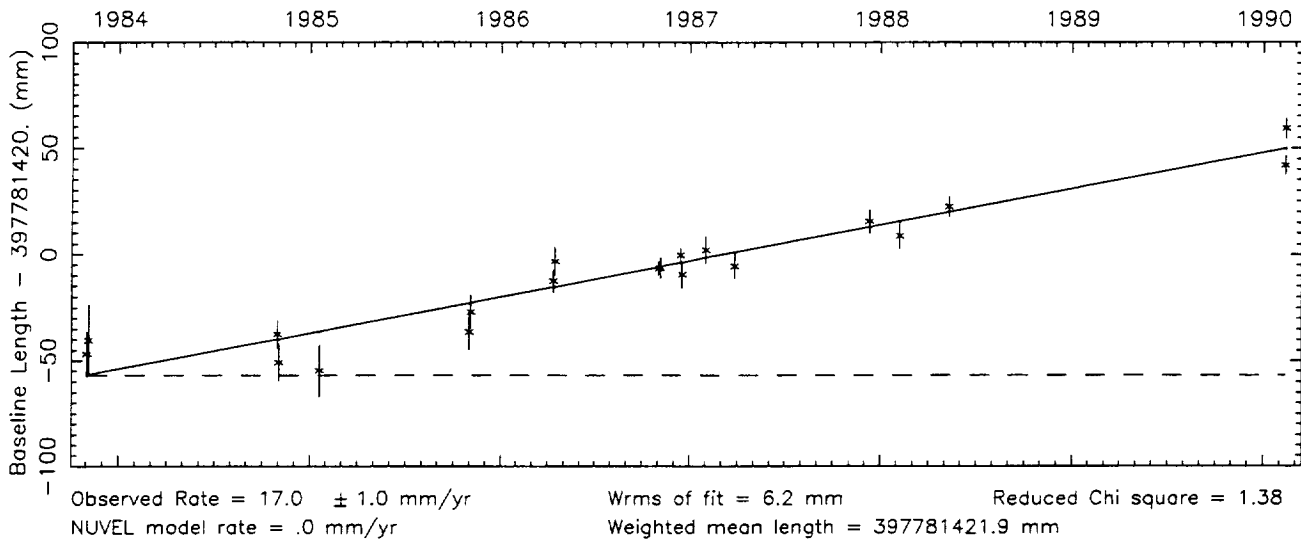
Number of sessions = 33



Vector baseline plots for PINFLATS-VNDNBERG

Baseline length = 398 kilometers

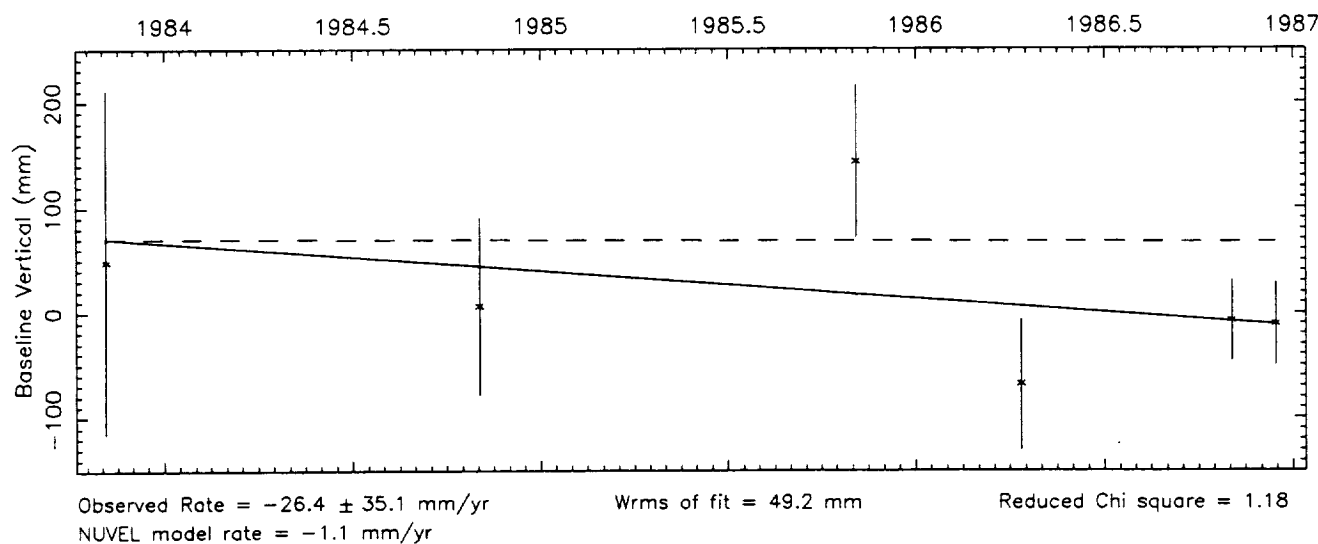
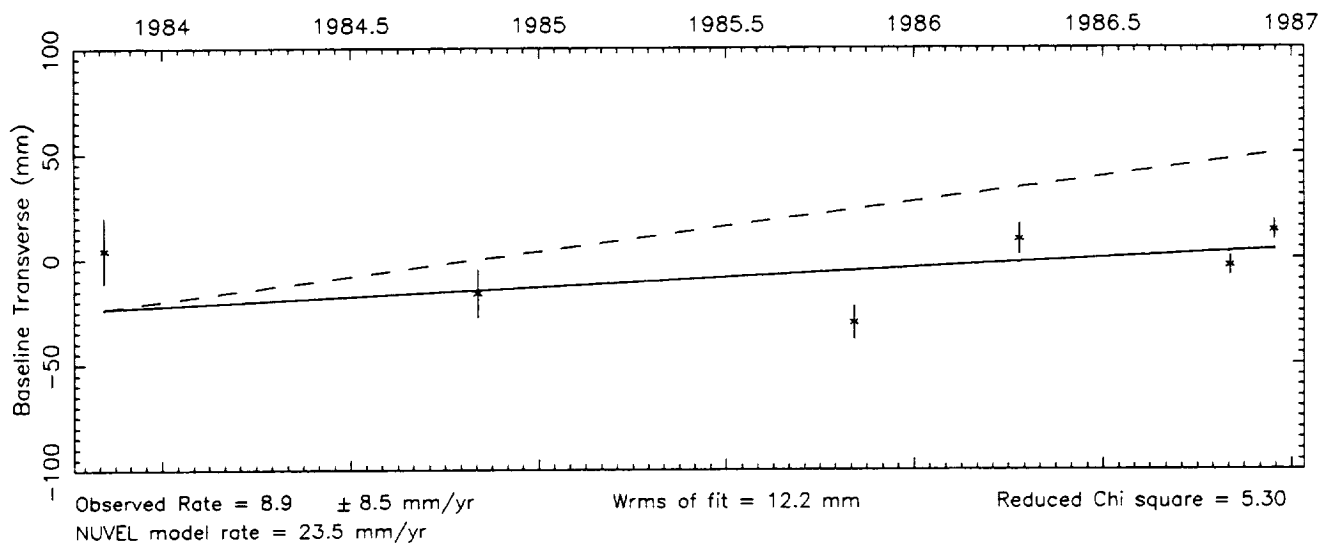
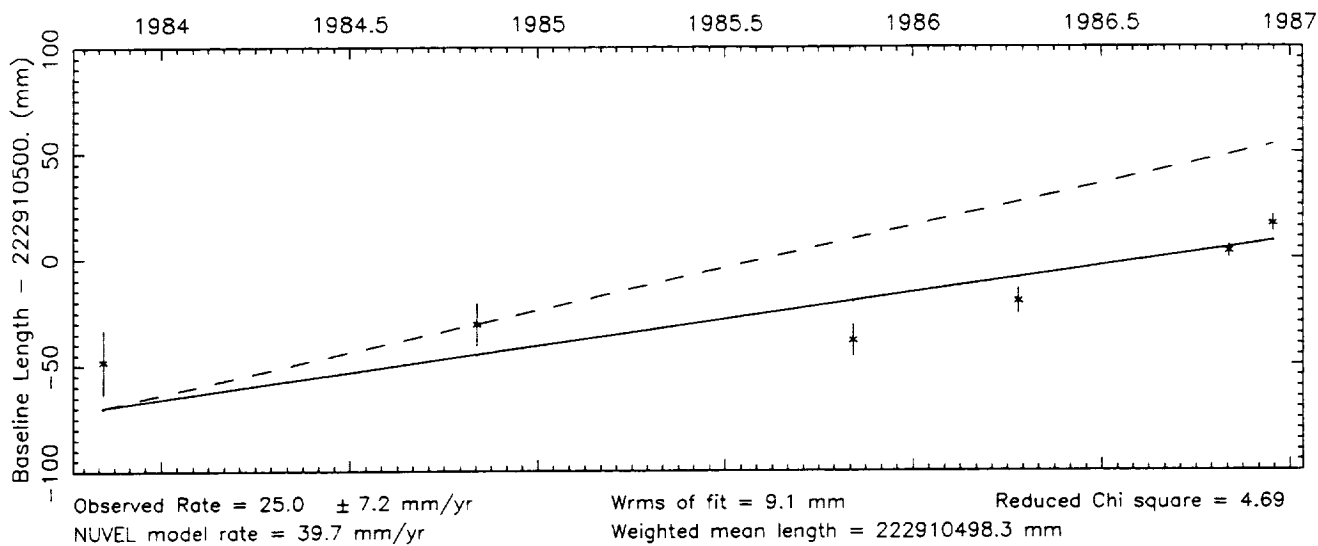
Number of sessions = 20



Vector baseline plots for PINFLATS-YUMA

Baseline length = 223 kilometers

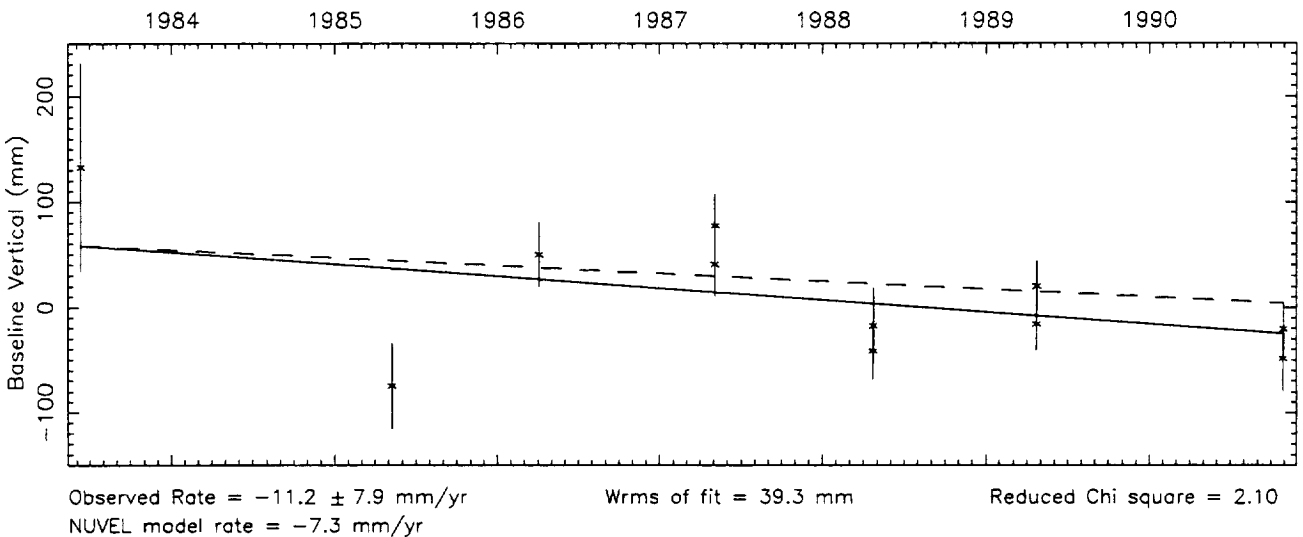
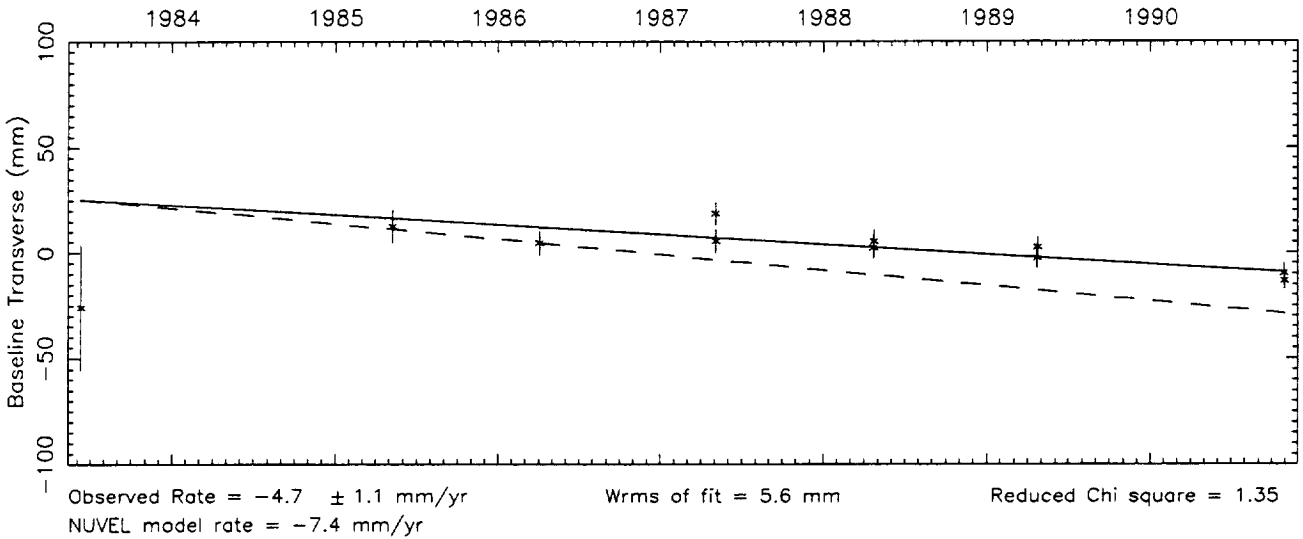
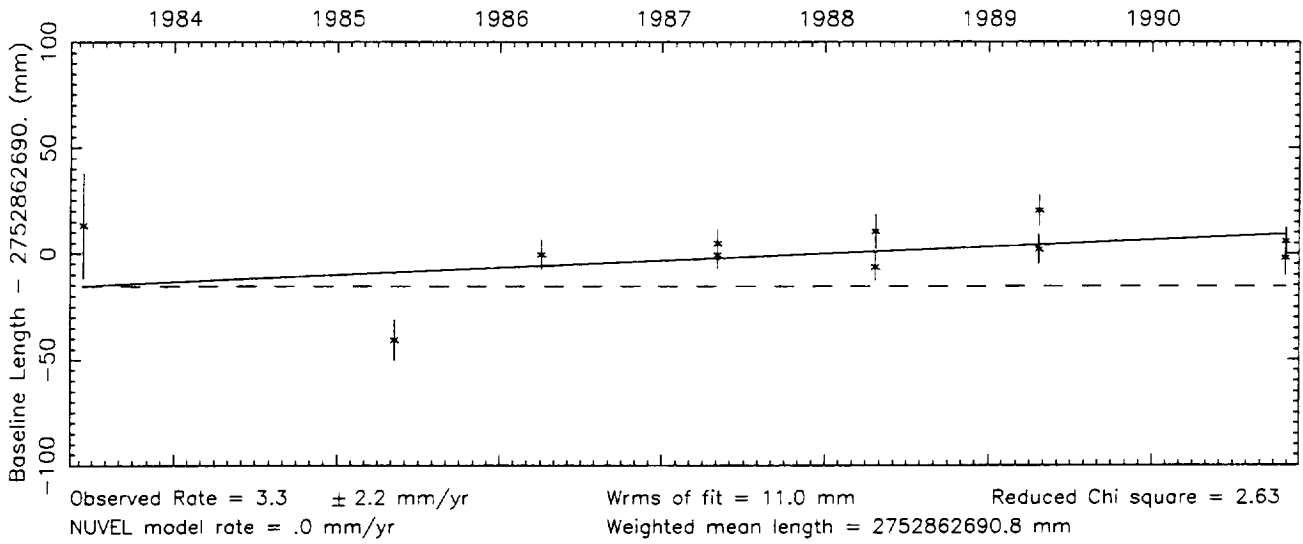
Number of sessions = 6



Vector baseline plots for PLATTVIL-WESTFORD

Baseline length = 2753 kilometers

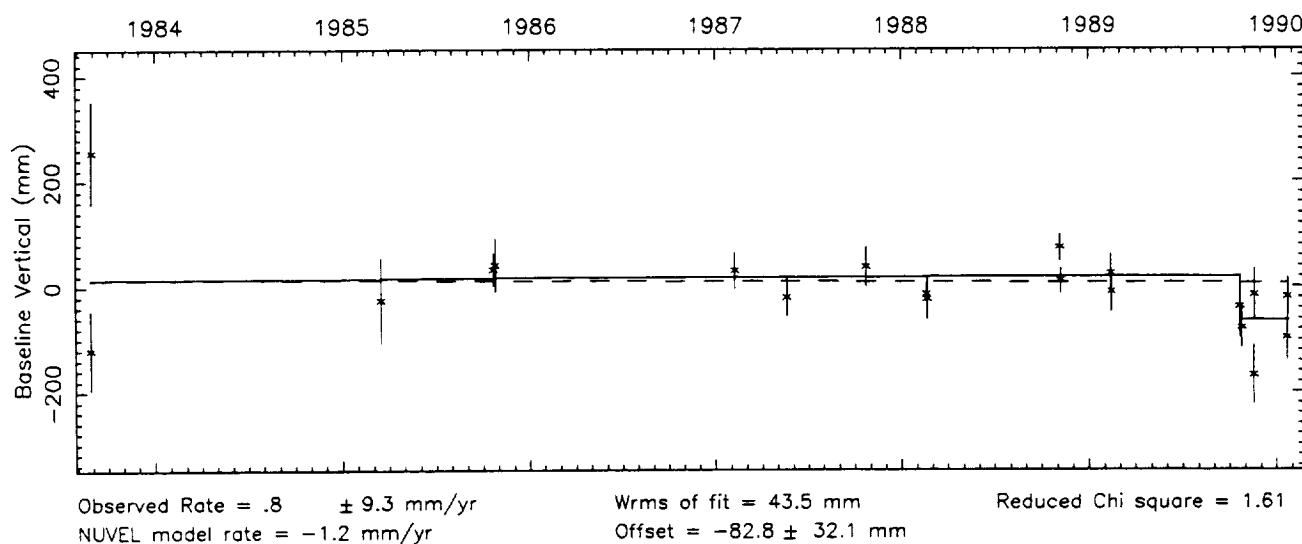
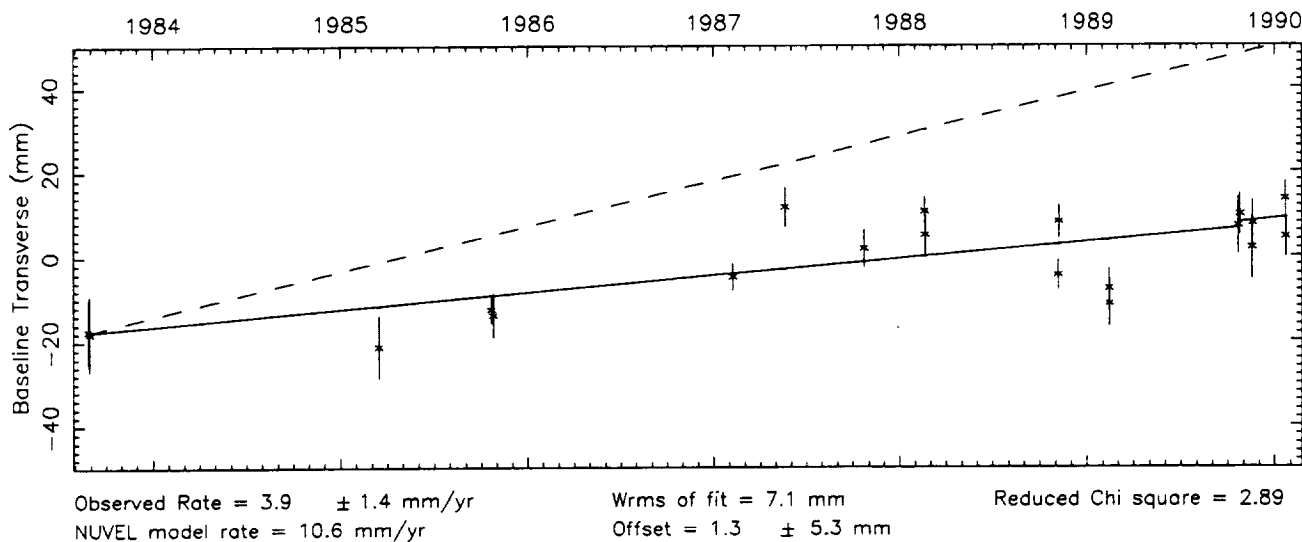
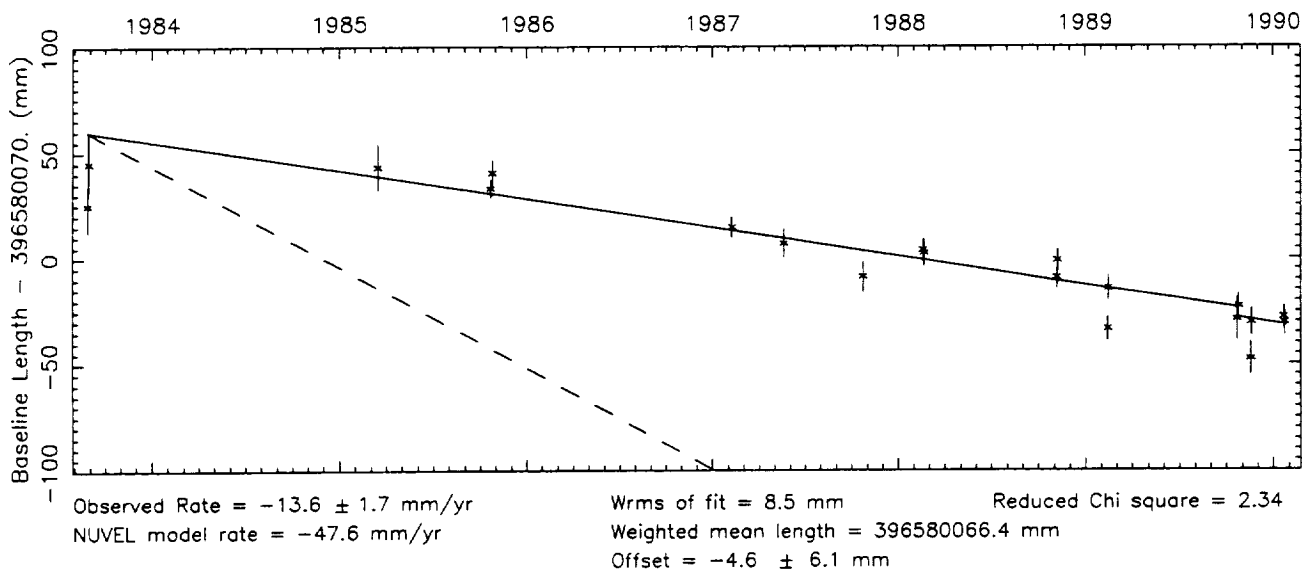
Number of sessions = 11



Vector baseline plots for PRESIDIO-VNDNBERG

Baseline length = 397 kilometers

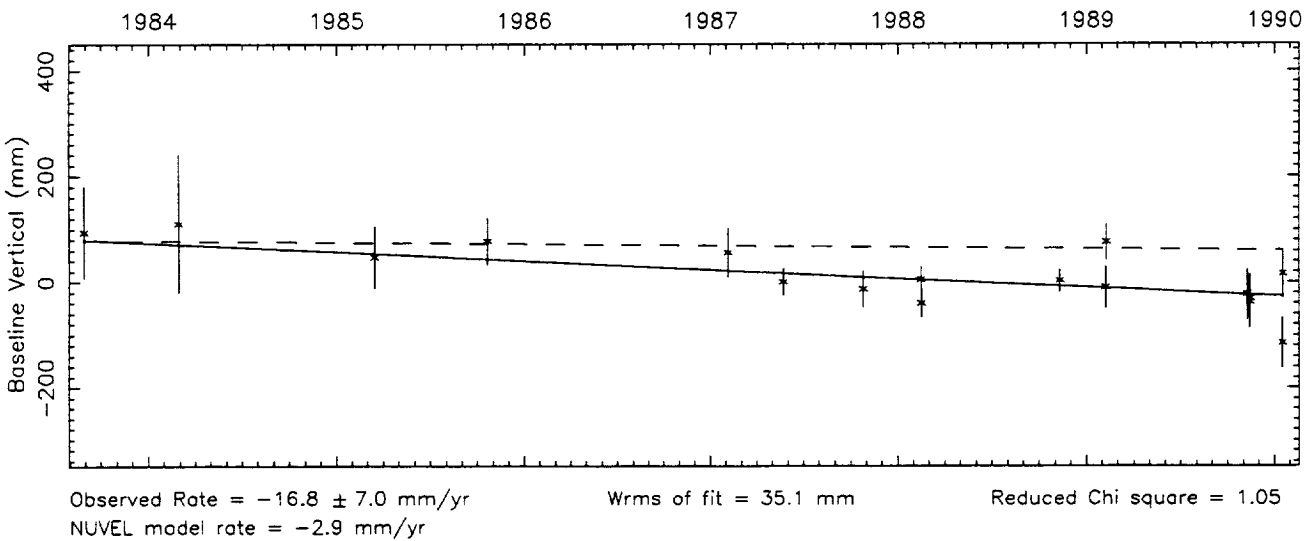
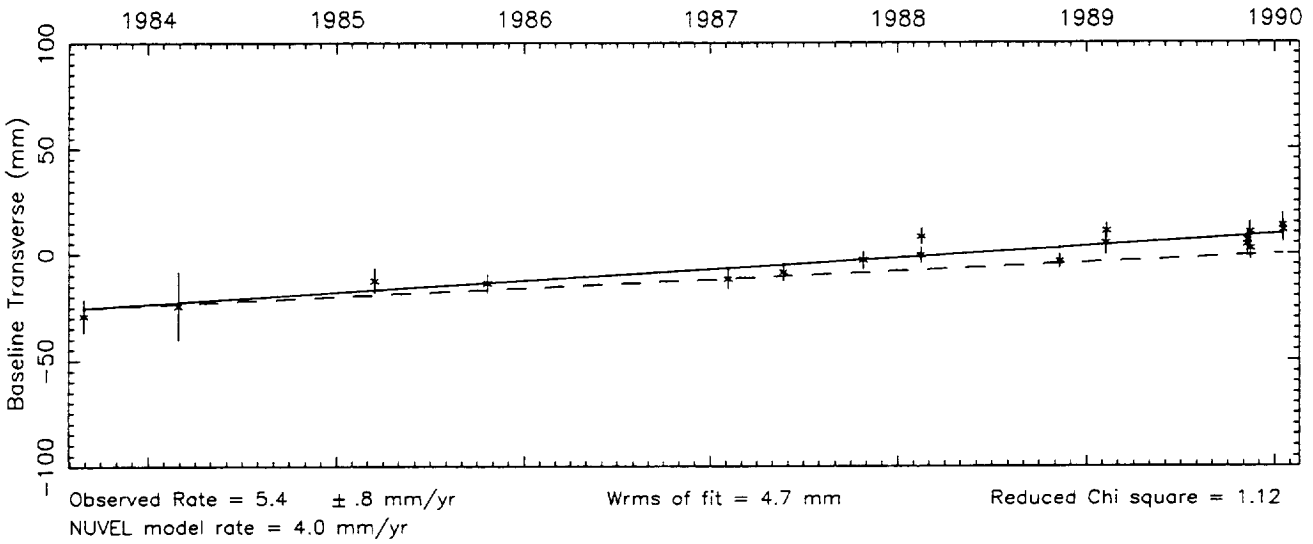
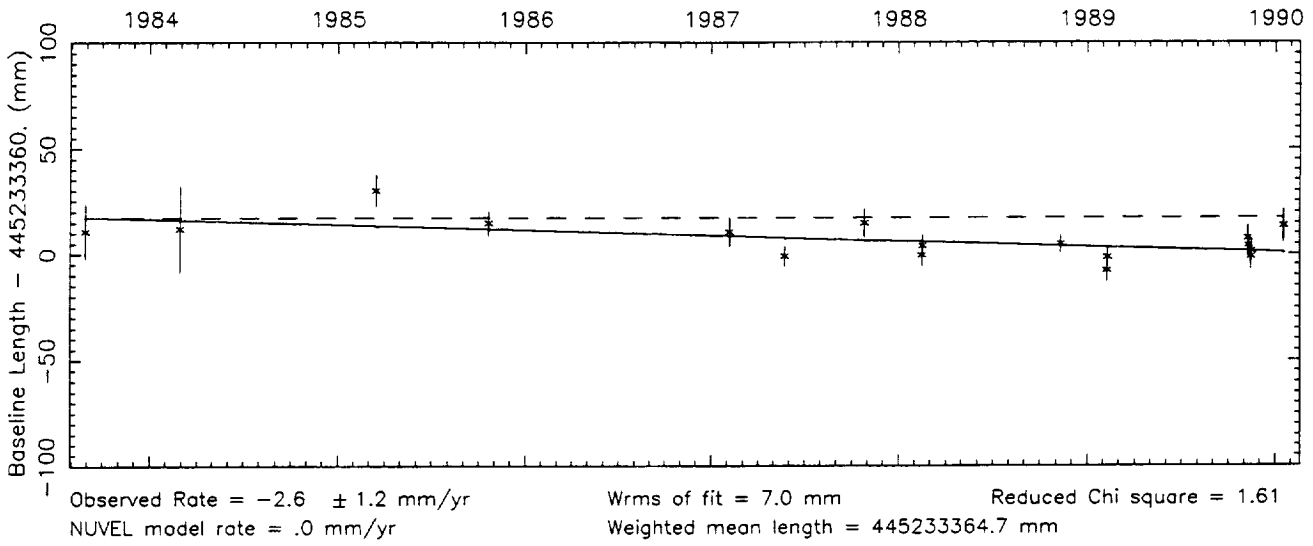
Number of sessions = 20



Vector baseline plots for PT REYES-VNDNBERG

Baseline length = 445 kilometers

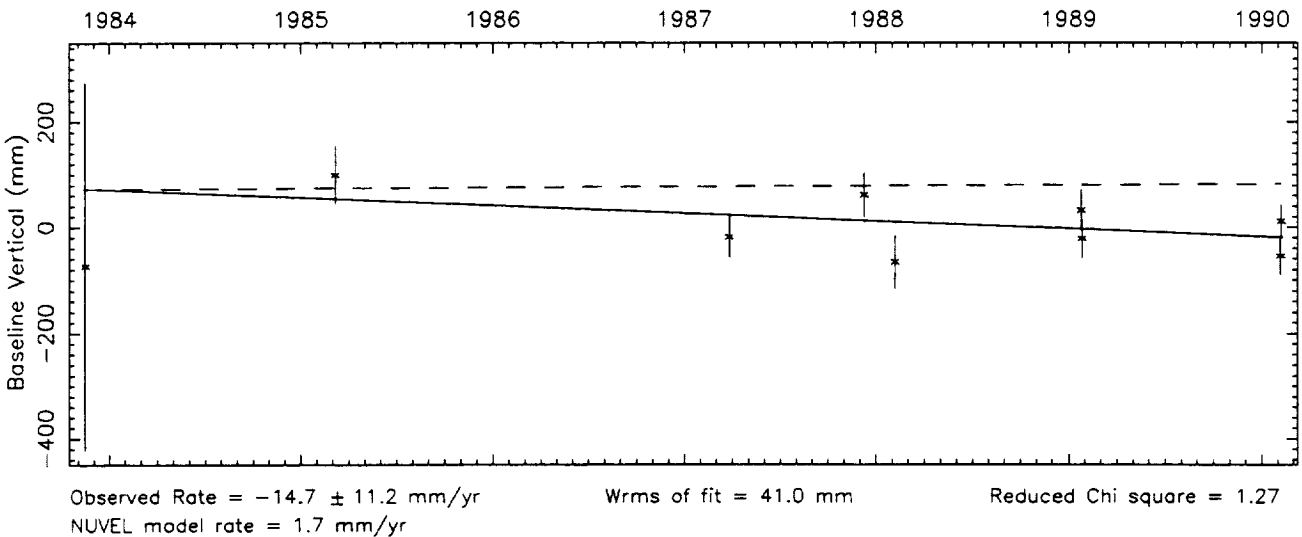
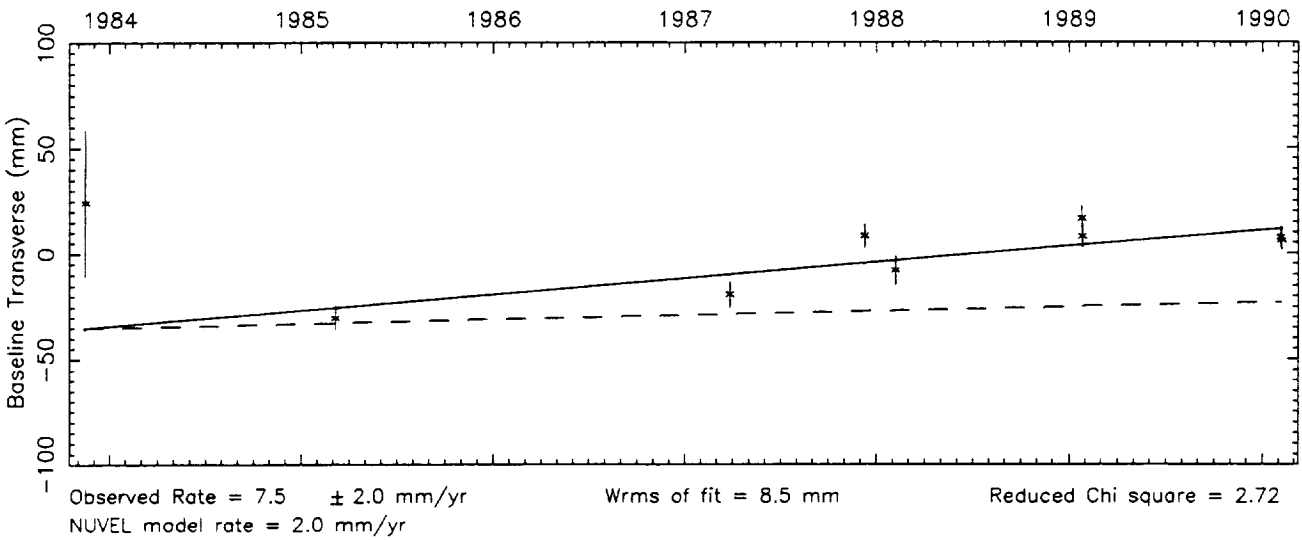
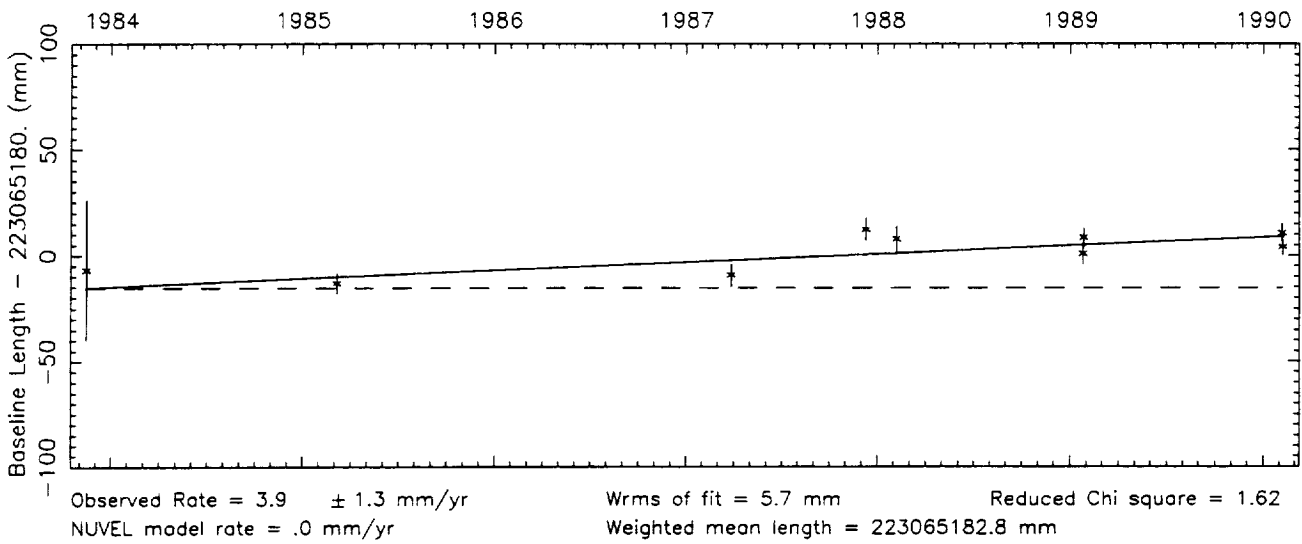
Number of sessions = 18



Vector baseline plots for PVERDES -VNDNBERG

Baseline length = 223 kilometers

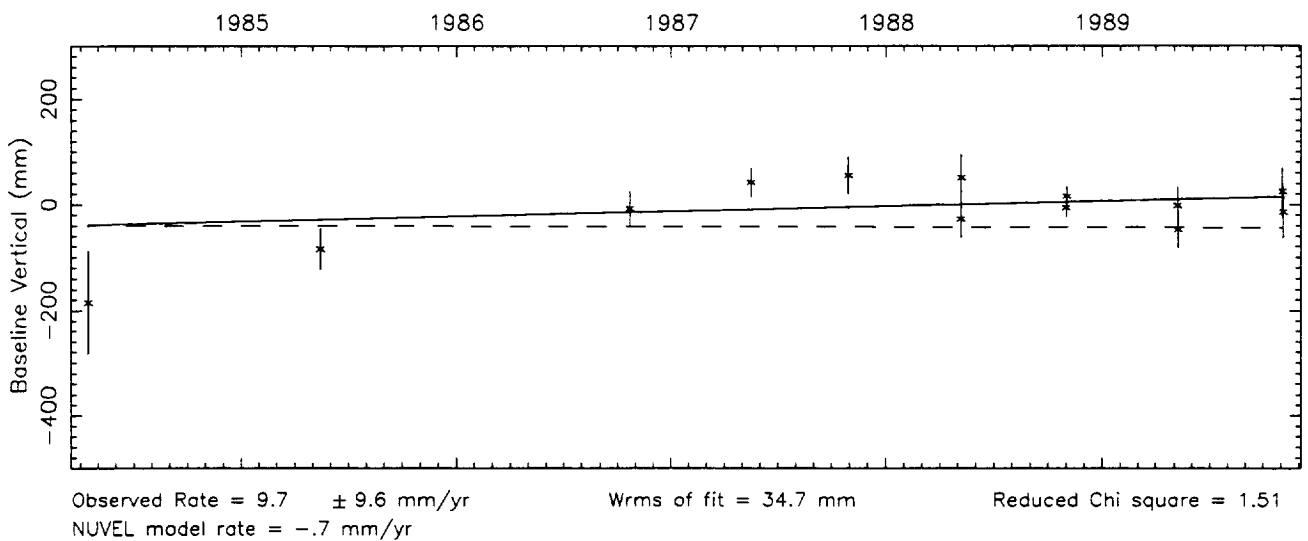
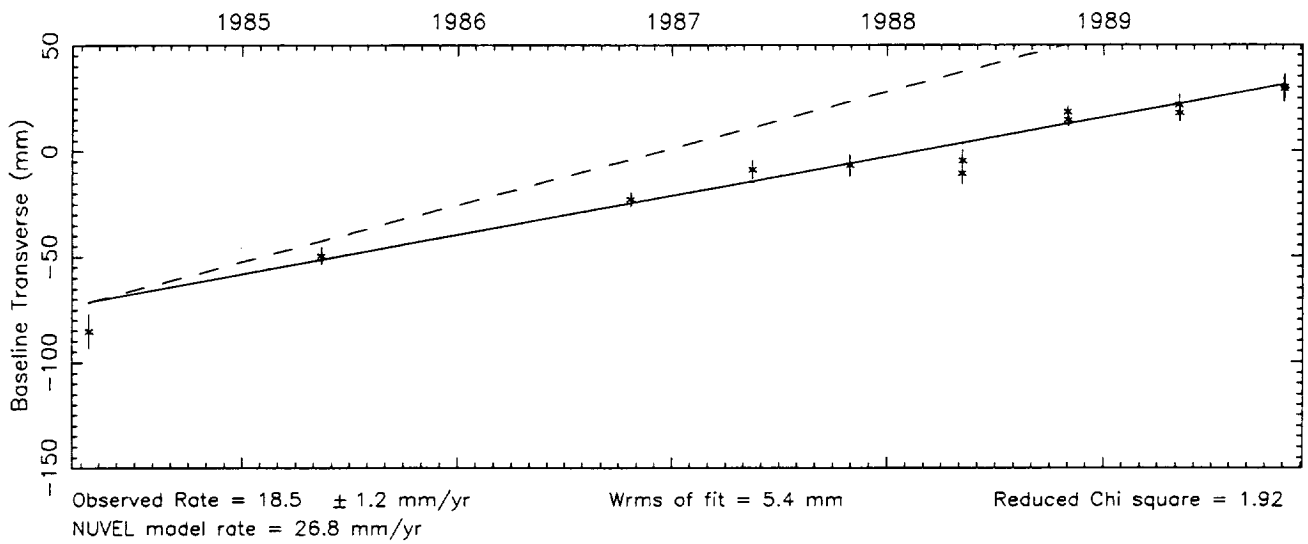
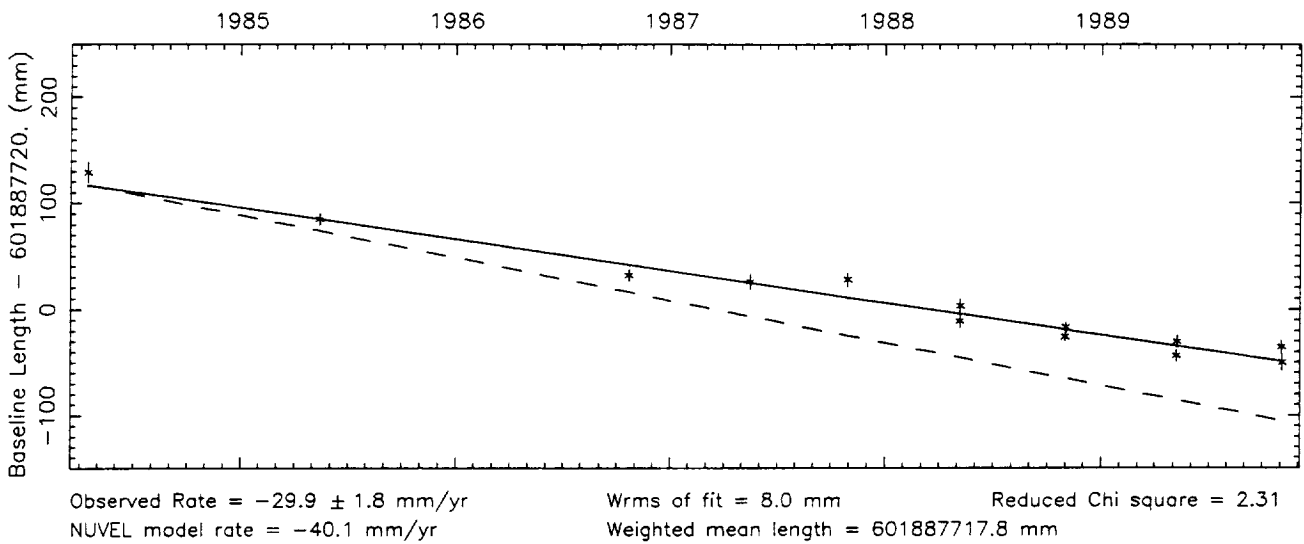
Number of sessions = 9



Vector baseline plots for QUINCY -VNDNBERG

Baseline length = 602 kilometers

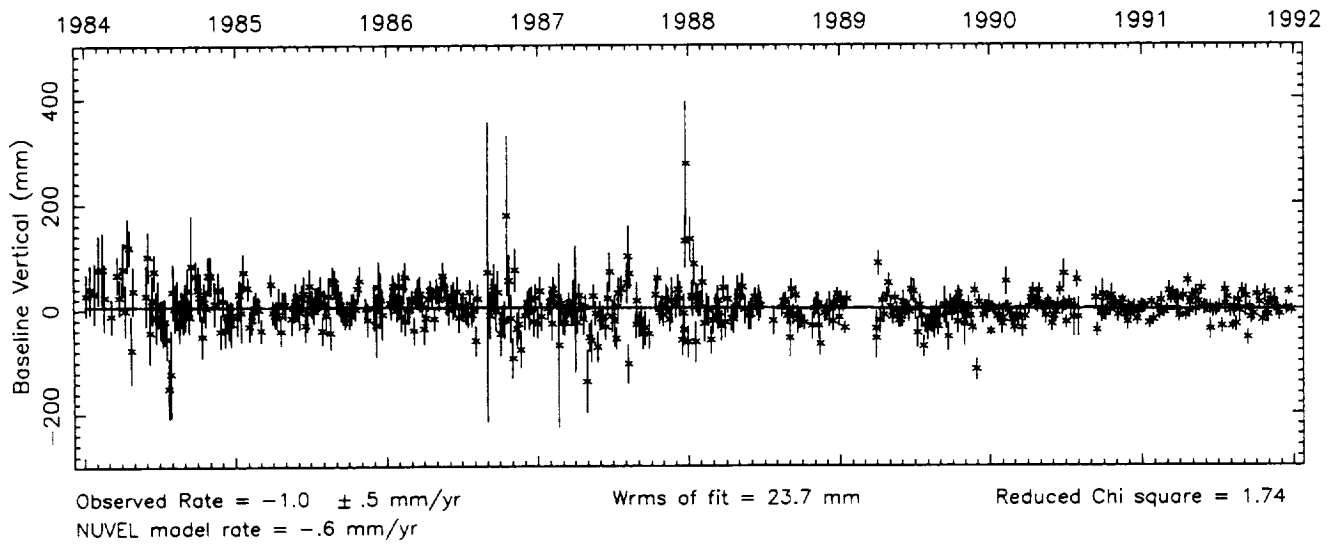
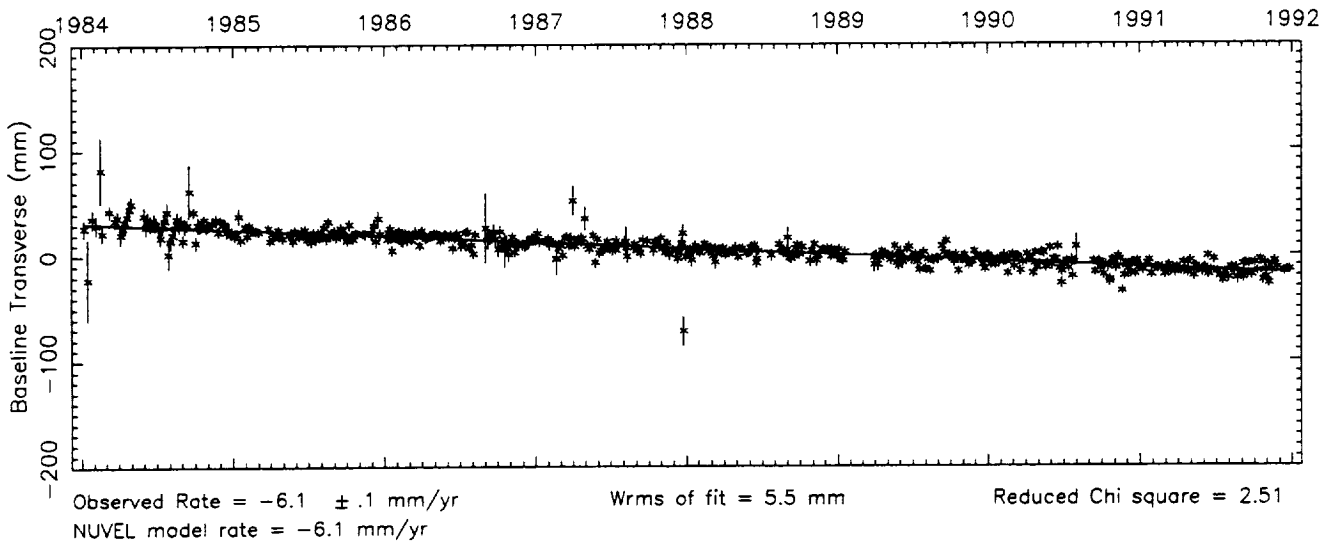
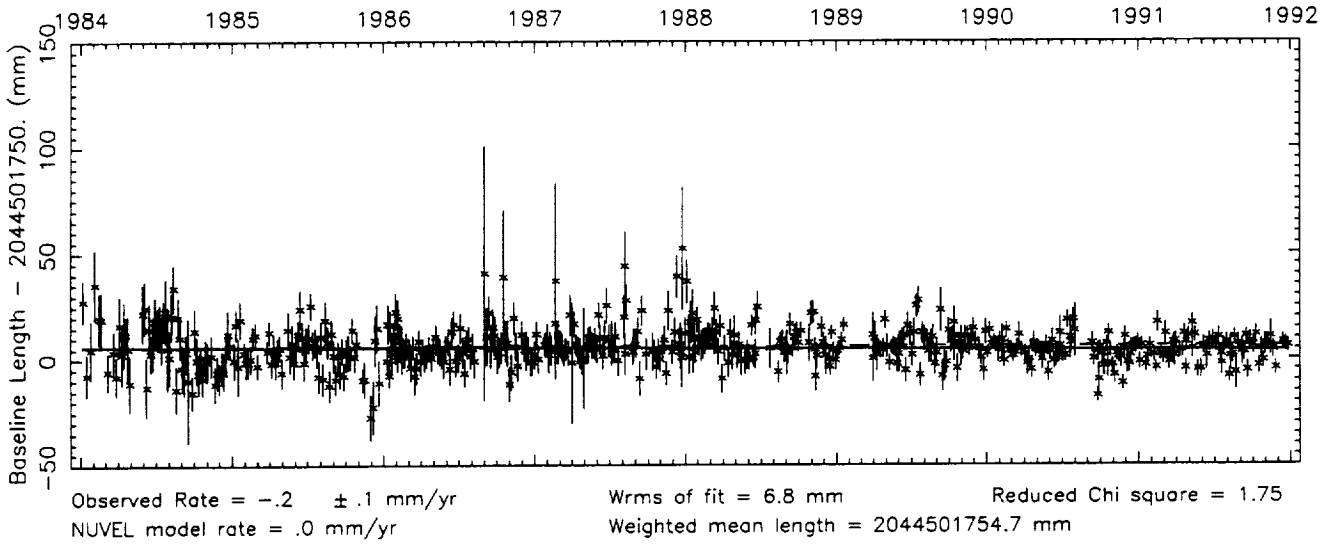
Number of sessions = 13



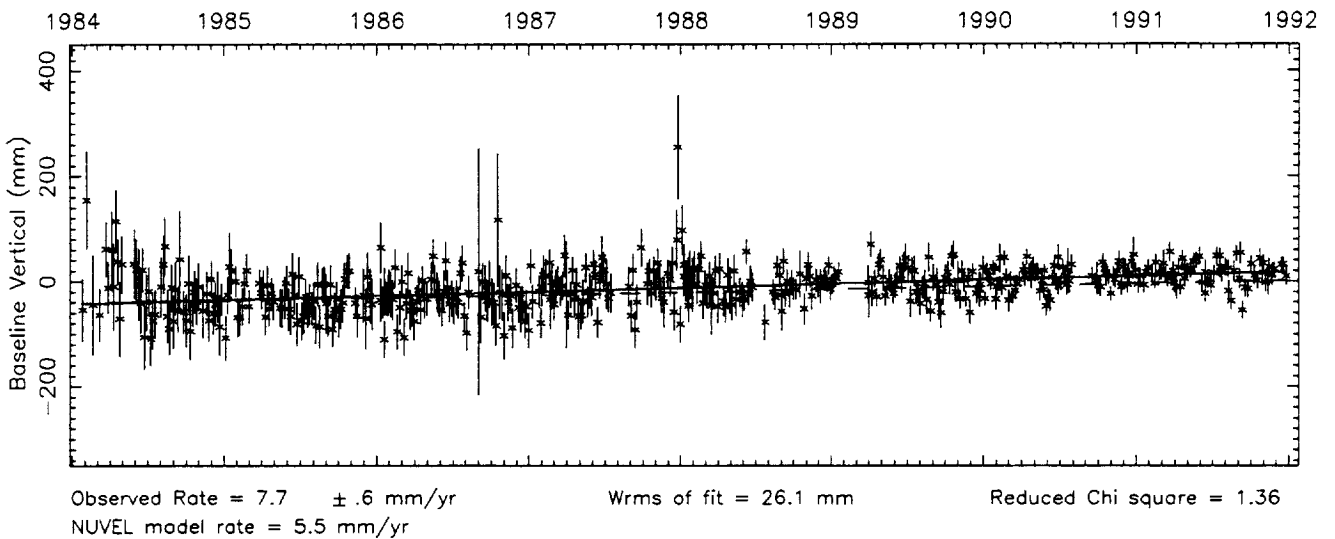
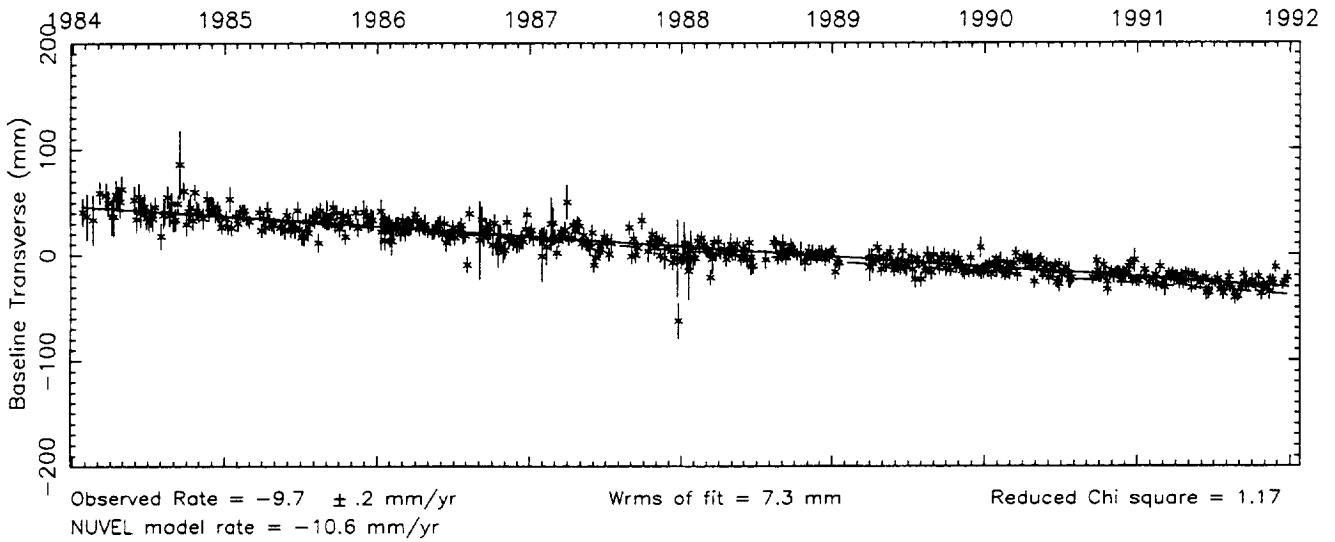
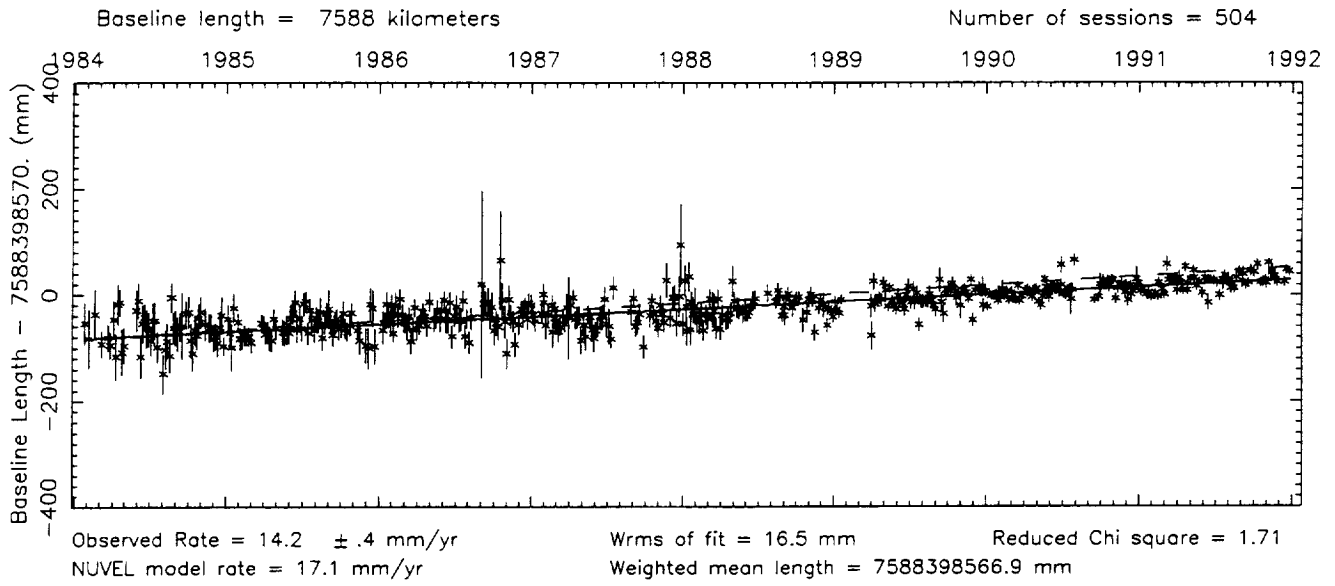
Vector baseline plots for RICHMOND-WESTFORD

Baseline length = 2045 kilometers

Number of sessions = 529



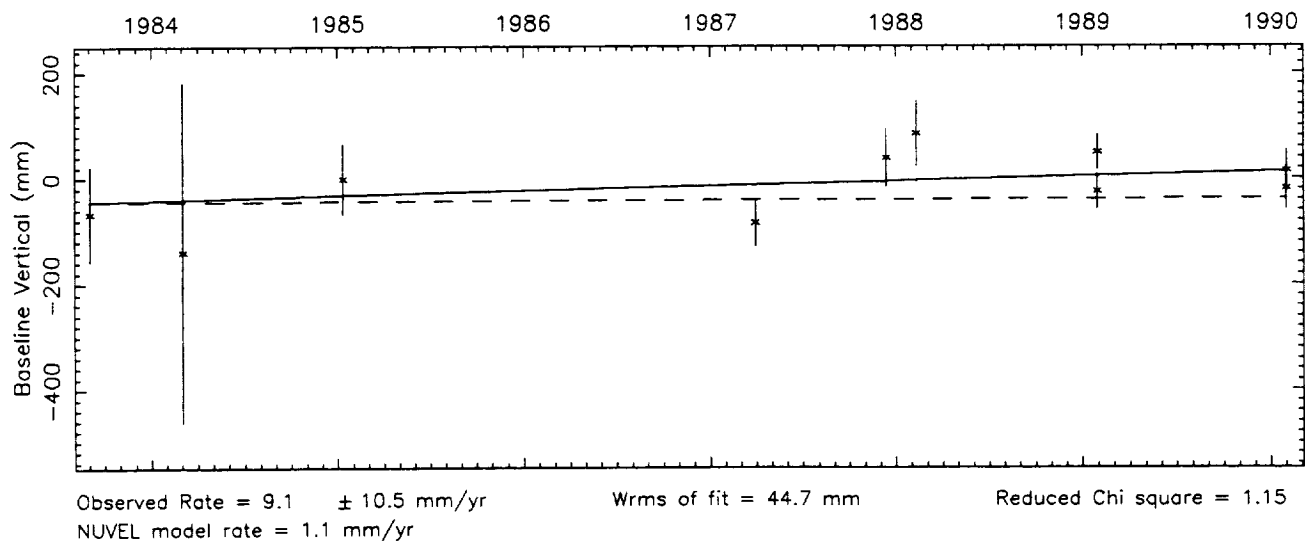
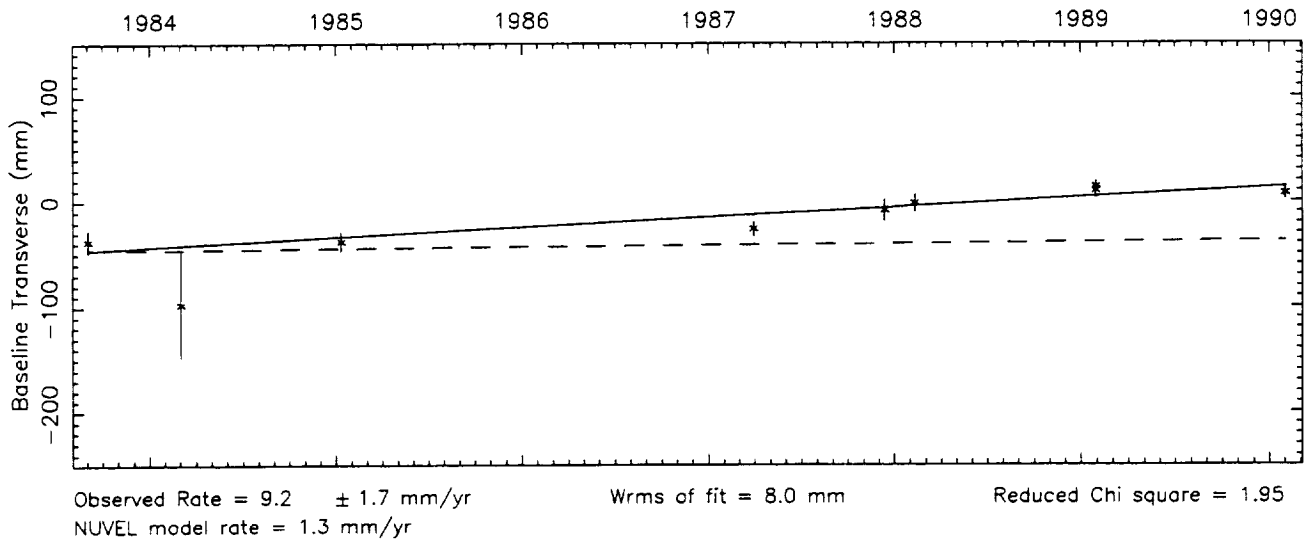
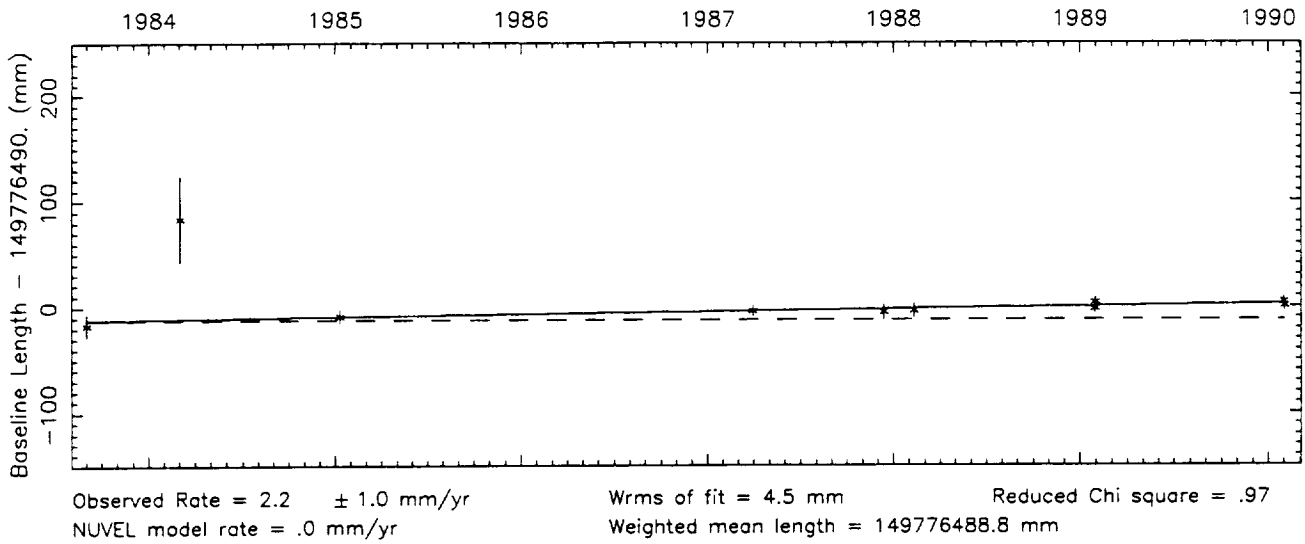
Vector baseline plots for RICHMOND-WETTZELL



Vector baseline plots for SANPAULA-VNDNBERG

Baseline length = 150 kilometers

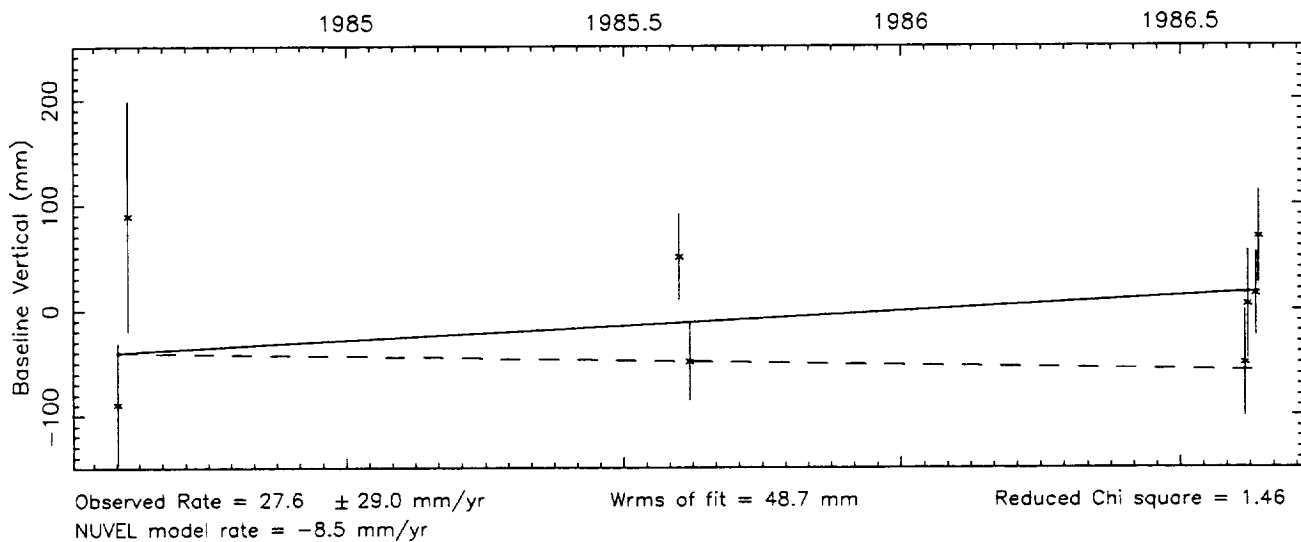
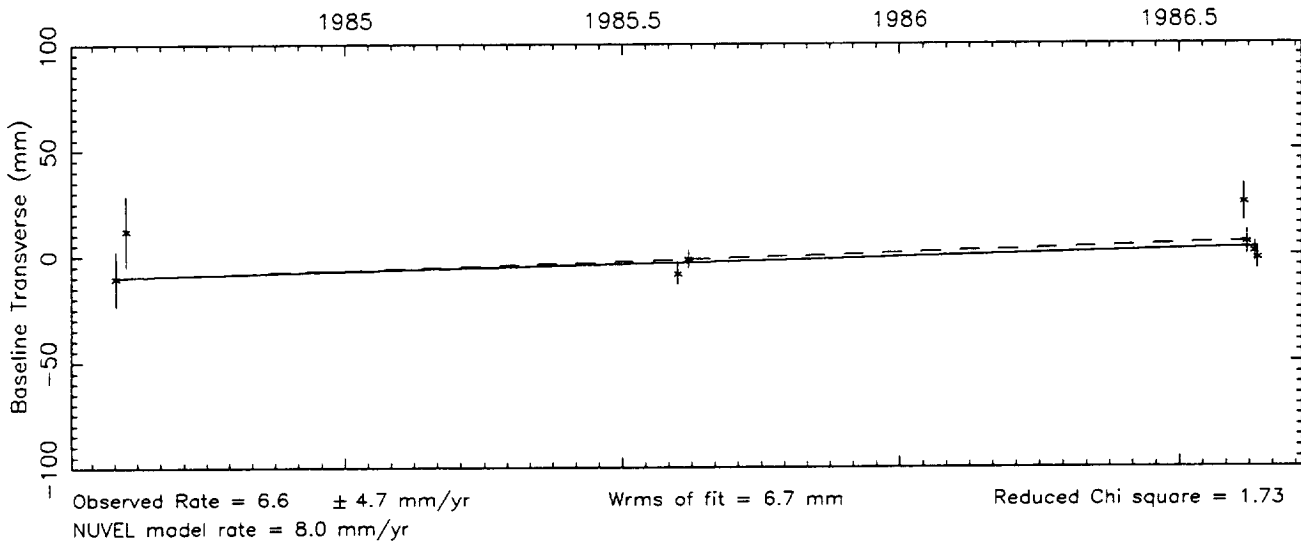
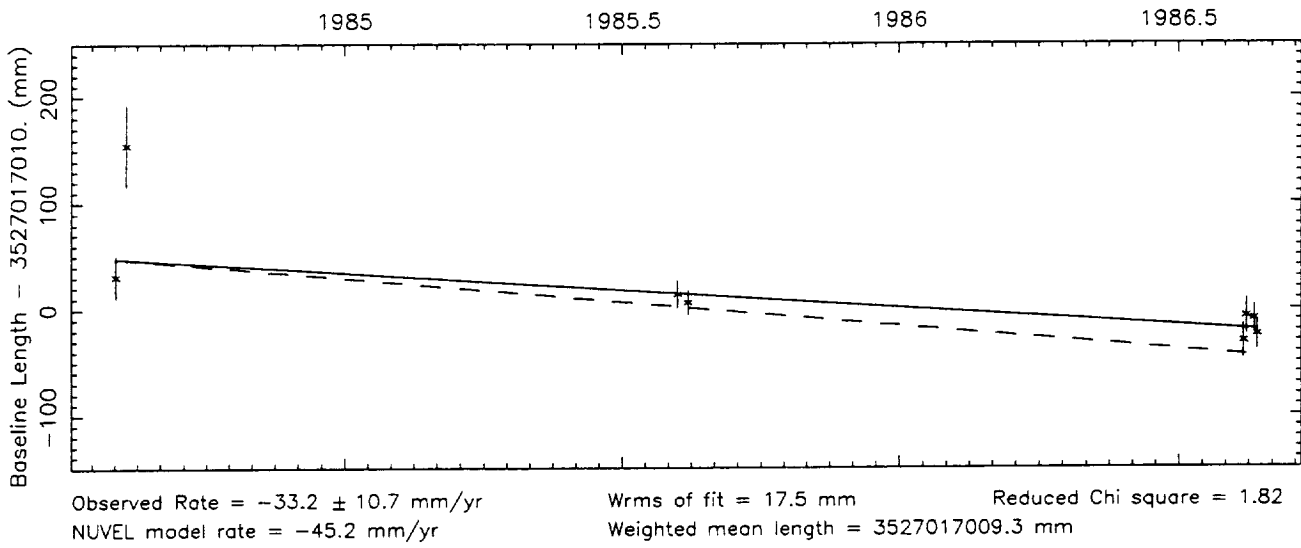
Number of sessions = 10



Vector baseline plots for SOURDOGH-VNDNBERG

Baseline length = 3527 kilometers

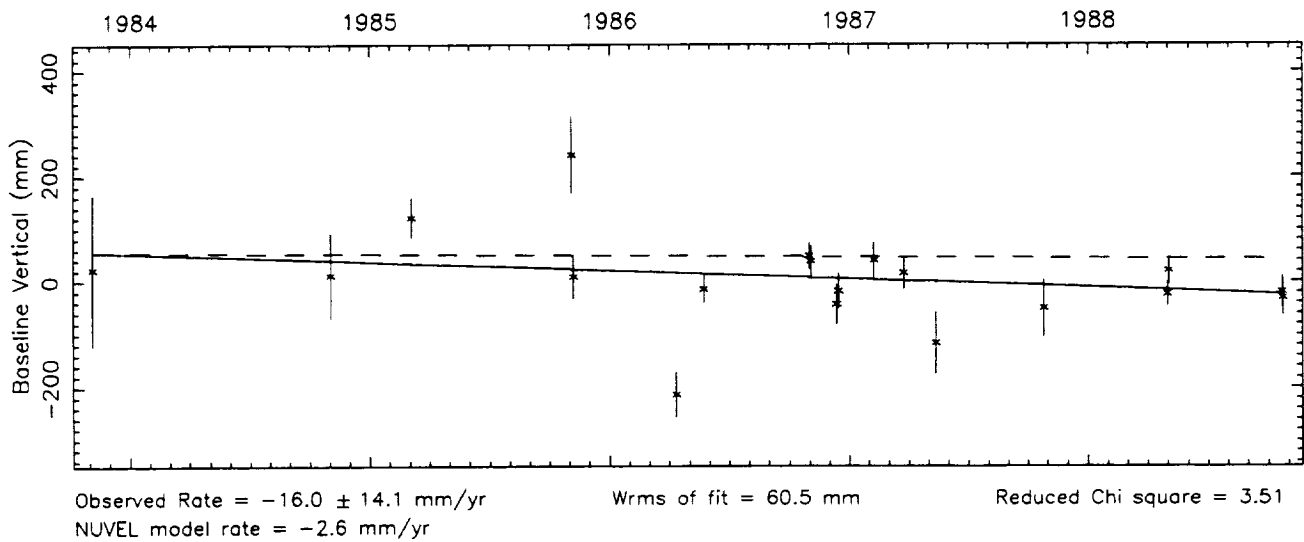
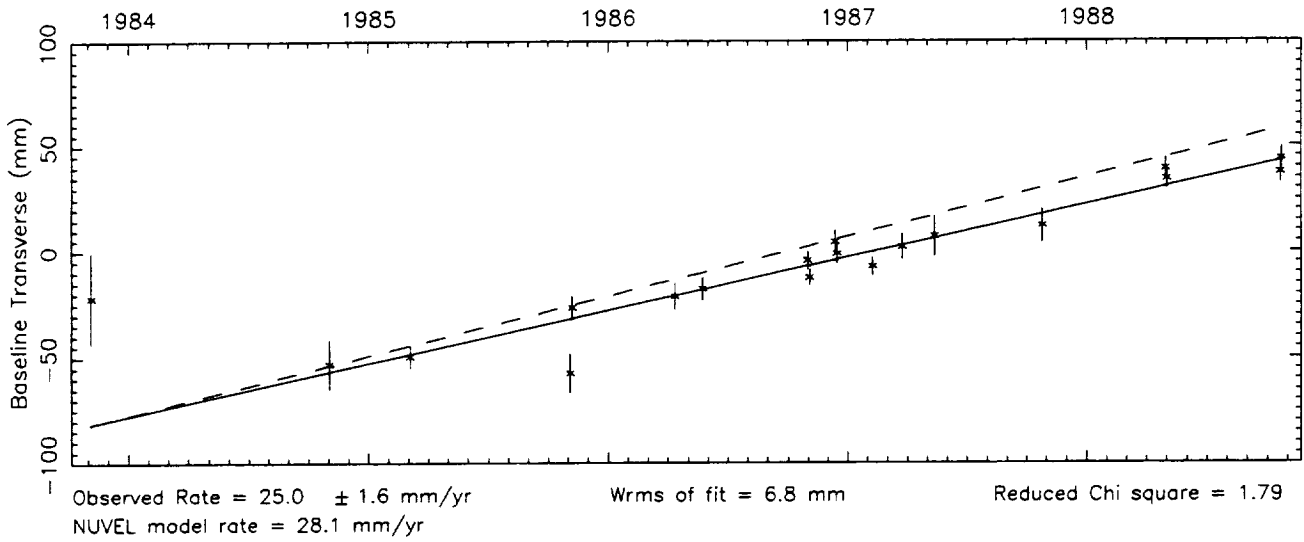
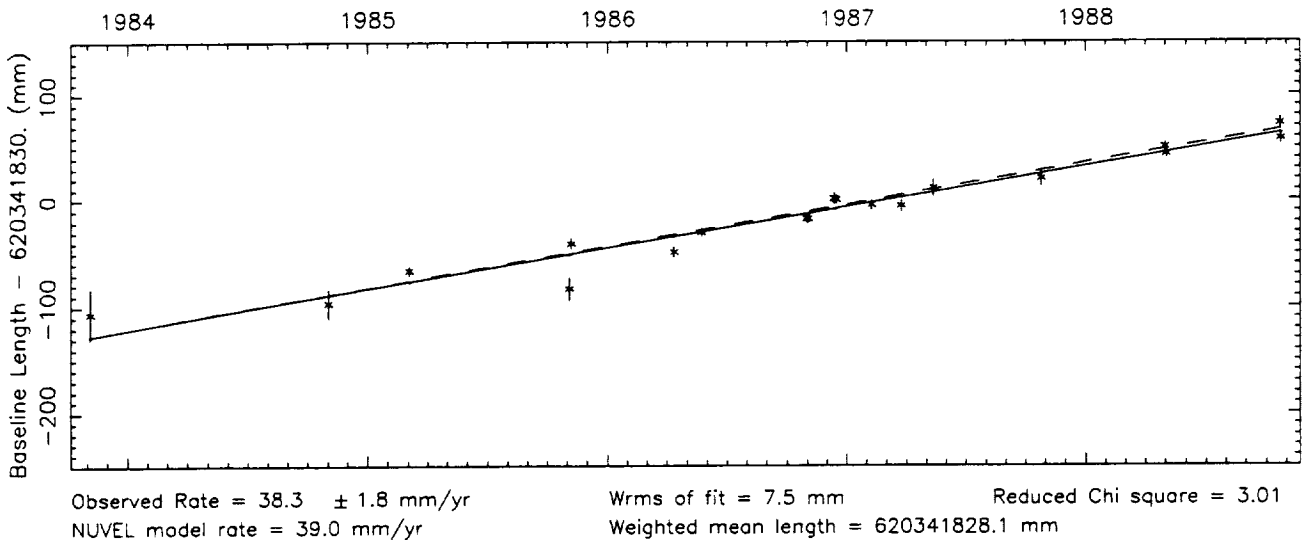
Number of sessions = 8



Vector baseline plots for VNDNBERG-YUMA

Baseline length = 620 kilometers

Number of sessions = 19



Vector baseline plots for WESTFORD-WETTZELL

Baseline length = 5998 kilometers

Number of sessions = 659

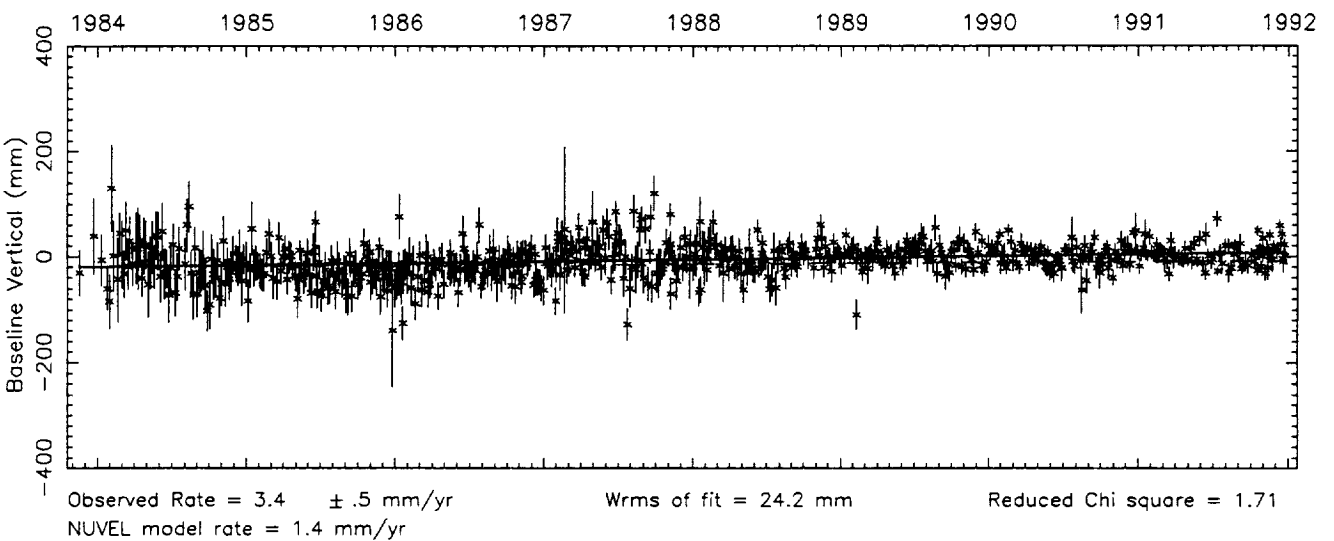
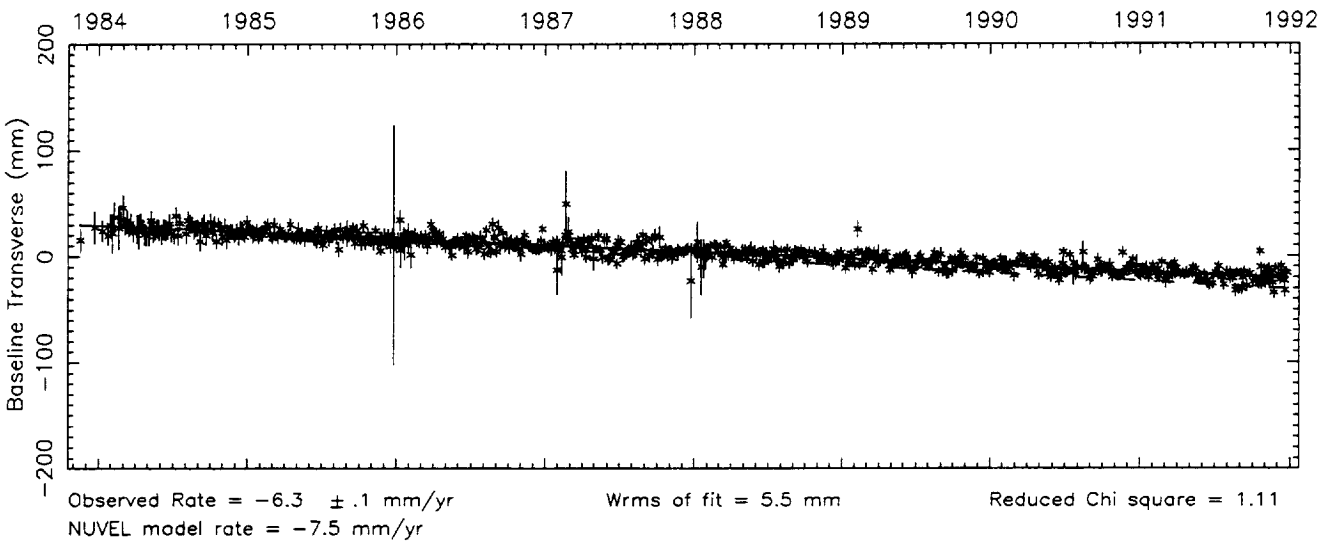
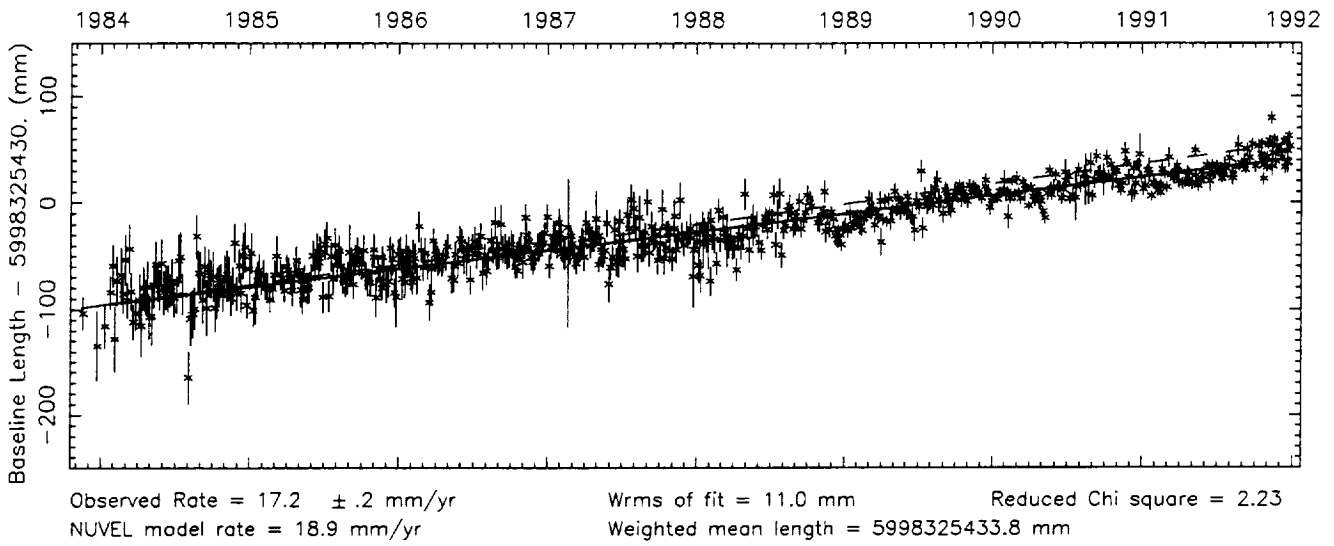


Table 7.202

yy mm dd	Baseline summary for ALGOPARK-HRAS 085								
	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
84 8 25	2787141066.7	-2	7.4	27.1	-6.7	5.1	-67.2	-56.6	29.9
84 8 29	2787141072.7	5.8	6.4	38.7	5.0	3.2	-3.1	7.5	25.3
85 8 25	2787141073.8	6.9	5.9	29.2	-4.6	3.0	-41.2	-30.6	24.2
85 8 29	2787141033.9	-33.0	16.0	37.9	4.2	16.0	126.5	137.1	63.4
85 9 5	2787141053.3	-13.6	8.1	40.7	6.9	5.0	61.9	72.5	32.3

Table 7.203

yy mm dd	Baseline summary for ALGOPARK-KAUAI								
	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 6 27	7192645459.6	-8.7	14.9	219.1	-36.9	6.4	128.3	-94.3	23.0
90 7 6	7192645465.9	-2.4	17.4	223.2	-32.9	8.5	242.8	20.1	27.4
90 7 18	7192645503.1	34.8	20.9	221.0	-35.1	8.1	209.2	-13.4	32.5
90 8 1	7192645487.5	19.2	12.3	234.2	-21.8	6.6	232.4	9.7	21.6
91 6 12	7192645456.9	-11.5	15.7	274.1	18.1	6.4	247.0	24.4	24.0
91 7 17	7192645463.0	-5.3	15.3	294.6	38.5	6.3	242.7	20.0	24.3
91 8 7	7192645434.8	-33.5	19.4	294.1	38.0	6.3	274.7	52.0	27.9

Table 7.204

yy mm dd	Baseline summary for ALGOPARK-KODIAK								
	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 6 30	4887785376.9	-6.9	15.2	50.9	-5.9	6.0	101.3	4.0	34.4
90 7 1	4887785381.8	-2.1	14.3	56.9	.1	5.6	92.7	-4.6	32.8
90 7 3	4887785395.1	11.3	16.7	62.8	6.0	6.2	98.6	1.3	38.5

Table 7.205

yy mm dd	Baseline summary for ALGOPARK-MATERA								
	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 6 12	6854842903.6	6.8	15.4	51.3	10.5	6.5	-101.3	-18.7	23.2
91 7 17	6854842898.5	1.7	13.3	39.3	-1.5	5.7	-80.6	2.0	20.5
91 8 7	6854842884.0	-12.8	18.2	33.4	-7.4	6.0	-58.1	24.5	28.5

Table 7.206

yy mm dd	Baseline summary for ALGOPARK-MRAO85 3								
	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 6 27	848030629.4	-5	4.4	.8	1.5	4.8	-73.5	-30.9	20.6
90 7 6	848030634.9	5.0	6.8	-10.5	-9.9	6.5	-20.6	22.0	25.8
90 7 18	848030636.5	6.5	6.8	7.6	8.2	5.4	-48.7	-6.1	33.5
90 8 1	848030623.4	-6.5	4.7	-1.4	-8	4.4	-2.2	40.3	20.0
91 6 12	848030632.3	2.4	5.0	-4.7	-4.0	4.0	-27.7	14.9	23.4
91 7 17	848030632.8	2.8	4.2	3.5	4.2	3.2	-65.2	-22.7	19.0
91 8 7	848030625.1	-4.8	5.0	-4.5	-3.9	4.1	-58.9	-16.3	28.1

Table 7.207

Baseline summary for ALGOPARK-RICHMOND

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 7 2	2254545234.5	-4.2	4.8	-4.2	8.6	3.1	-2.2	-3.3	16.7
90 7 7	2254545239.6	.9	4.2	-6.3	6.5	2.7	3.6	2.5	14.7
90 7 17	2254545236.3	-2.4	6.3	-7.7	5.1	4.5	23.8	22.7	21.2
90 7 18	2254545251.9	13.2	9.7	1.4	14.2	5.8	14.8	13.8	36.1
90 7 22	2254545243.0	4.3	5.0	-15.4	-2.6	3.4	-9.6	-10.7	18.0
90 7 27	2254545259.6	20.9	5.7	-10.8	2.0	3.8	-63.6	-64.7	19.4
90 7 31	2254545248.2	9.5	12.1	1.3	14.1	12.4	17.9	16.9	37.8
91 6 11	2254545239.8	1.1	5.0	-3.3	9.5	3.2	5.4	4.3	19.5
91 6 18	2254545232.5	-6.2	4.6	-15.2	-2.4	3.0	-5.0	-6.0	16.9
91 6 25	2254545243.1	4.4	4.8	-8.1	4.7	3.1	-7.1	-8.1	16.9
91 7 9	2254545238.7	.0	5.4	-23.1	-10.3	3.6	-4.4	-5.5	19.4
91 7 16	2254545238.6	-1	4.7	-33.0	-20.2	3.0	-54.5	-55.5	16.8
91 7 22	2254545249.3	10.6	5.3	-8.4	4.4	3.3	1.0	-1	17.7
91 7 30	2254545237.7	-1.0	5.0	-25.4	-12.6	3.1	14.6	13.5	17.8
91 8 4	2254545224.5	-14.2	3.6	-9.8	3.0	2.8	51.3	50.3	12.2

Table 7.208

Baseline summary for ALGOPARK-SNDPOINT

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 7 10	5395379477.1	-6.7	20.0	61.5	5.6	7.6	185.6	27.0	41.7
90 7 11	5395379483.2	-.5	16.6	51.4	-4.5	6.7	137.5	-21.1	34.6
90 7 13	5395379489.9	6.2	18.2	56.0	.1	7.5	161.7	3.0	37.7

Table 7.209

Baseline summary for ALGOPARK-VICTORIA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 8 2	3362802081.3	-2.8	12.5	4.1	-5.9	5.7	125.3	37.6	42.6
90 8 3	3362802083.9	-.2	14.1	13.2	3.2	6.5	61.1	-26.6	48.9
90 8 4	3362802088.3	4.2	15.0	14.3	4.4	6.4	63.4	-24.3	50.3

Table 7.210

Baseline summary for ALGOPARK-WETTZELL

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 7 2	6154929649.9	-17.9	7.7	54.3	.7	5.0	-93.1	-8.1	17.0
90 7 7	6154929653.8	-14.0	6.6	58.0	4.4	4.5	-57.6	27.4	15.1
90 7 17	6154929673.9	6.1	10.3	55.8	2.2	6.5	-76.2	8.8	22.3
90 7 22	6154929654.8	-13.0	11.0	62.7	9.1	6.4	-97.6	-12.6	23.4
90 7 27	6154929669.8	2.0	8.3	63.0	9.4	5.4	-107.7	-22.7	18.0
91 6 11	6154929673.8	5.9	9.7	51.8	-1.8	5.4	-107.9	-22.9	18.7
91 6 18	6154929679.0	11.1	8.5	38.1	-15.5	5.7	-98.3	-13.3	17.2
91 6 25	6154929667.4	-.4	7.8	51.3	-2.3	5.3	-103.4	-18.4	16.4
91 7 9	6154929660.3	-7.5	9.5	60.3	6.7	5.7	-48.8	36.2	19.3
91 7 16	6154929663.2	-4.6	7.8	57.2	3.6	5.0	-97.9	-12.9	15.8
91 7 22	6154929678.4	10.6	8.3	40.3	-13.3	5.5	-73.9	11.1	18.1
91 7 30	6154929697.9	30.1	8.2	50.2	-3.4	5.2	-60.7	24.3	17.1

Table 7.211

Baseline summary for ALGOPARK-YELLOWKN

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
84 8 25	2912296008.3	-19.4	11.5	16.0	-3.8	5.8	144.3	1.6	44.2
85 9 5	2912296040.6	12.8	9.3	22.3	2.5	4.7	141.6	-1.1	36.3

Table 7.212

Baseline summary for ALGOPARK-YLOW7296

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 7 1	2912668592.0	-4.2	4.7	-916.3	-11.2	3.2	815.4	-.6	15.8
91 8 4	2912668599.4	3.2	4.2	-894.4	10.7	3.1	816.4	.4	12.9

Table 7.213

Baseline summary for AUSTINTX-BRAS 085

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 7 12	600902670.9	.0	2.9	5.6	.0	3.9	39.3	.0	23.4

Table 7.214

Baseline summary for AUSTINTX-RICHMOND

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 7 12	1773844464.6	.0	5.9	6.8	.0	4.4	-48.1	.0	32.5

Table 7.215

Baseline summary for AUSTINTX-WESTFORD

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 7 12	2677897008.1	.0	6.6	14.8	.0	5.2	-51.1	.0	24.6

Table 7.216

Baseline summary for BERMUDA -MARPOINT

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 8 5	1318010990.1	8.0	12.9	62.1	75.6	19.7	76.6	42.4	60.9
87 8 6	1318010952.5	-29.6	8.3	-1.5	12.1	10.9	159.0	124.8	40.6
87 8 9	1318010993.2	11.1	5.4	-28.0	-14.4	7.0	-21.0	-55.2	25.2

Table 7.217

Baseline summary for BERMUDA -RICHMOND

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 8 3	1696707883.6	-4.1	8.8	2.3	1.4	7.9	-55.0	-46.7	45.4
87 8 5	1696707905.4	17.7	13.8	11.6	10.7	13.7	-132.5	-124.2	65.1
87 8 6	1696707866.0	-21.7	8.6	9.1	8.2	9.1	99.8	108.1	43.4
87 8 9	1696707899.0	11.3	6.6	-6.8	-7.7	6.6	-14.0	-5.7	32.2

Table 7.218

Baseline summary for BERMUDA -WESTFORD

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 8 3	1284684854.8	-9.3	7.6	9.2	3.1	5.9	-17.8	-21.9	28.5
87 8 5	1284684869.9	5.8	11.5	5.5	-.6	10.7	-44.9	-49.0	46.1
87 8 6	1284684869.1	5.1	7.6	11.1	5.0	6.4	-17.6	-21.6	28.8
87 8 9	1284684865.0	1.0	5.6	1.0	-5.2	5.0	43.8	39.7	22.9

Table 7.219

Baseline summary for BLKBUTTE-ELY

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 10 26	629461895.0	-1.9	6.4	-5.8	-4.5	4.5	-34.7	-24.6	37.6
88 10 27	629461898.5	1.7	6.0	4.4	5.7	5.0	8.5	18.6	32.7

Table 7.220

Baseline summary for BLKBUTTE-HATCREEK

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 2 4	942475323.2	17.3	9.1	-1.8	-5.7	5.0	45.7	69.6	50.3
87 5 18	942475299.7	-6.3	8.1	19.5	15.6	6.4	69.4	93.3	40.8
87 10 22	942475275.0	-30.9	9.6	9.6	5.7	5.1	-190.3	-166.4	52.1
88 10 26	942475302.2	-3.7	6.6	-4.5	-8.4	5.3	-49.0	-25.1	36.5
88 10 27	942475319.2	13.3	6.6	.5	-3.3	6.7	-27.5	-3.6	32.8

Table 7.221

Baseline summary for BLKBUTTE-OCOTILLO

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
84 3 4	97160175.3	-34.1	32.2	47.8	9.2	20.5	349.6	135.4	200.4
85 1 16	97160212.3	2.9	9.3	37.8	-.9	6.3	189.5	-24.7	85.6

Table 7.222

Baseline summary for BLKBUTTE-OVRO 130

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
86 5 19	459067510.1	-7.4	4.5	-12.7	-14.3	4.9	43.7	50.4	31.8
86 10 27	459067527.1	9.6	3.9	5.6	4.0	3.2	-30.8	-24.2	29.6
87 10 22	459067502.0	-15.5	7.8	8.3	6.6	5.5	-81.0	-74.3	57.7

Table 7.223

Baseline summary for BLKBUTTE-PRESIDIO

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 5 18	762366287.0	5.9	7.8	12.1	5.1	7.1	107.8	86.6	45.3
87 10 22	762366272.6	-8.5	9.4	1.9	-5.2	7.2	-126.8	-148.0	59.3

Table 7.224

Baseline summary for BLKBUTTE-PT REYES

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 2 4	815918040.6	.0	9.2	-19.6	.0	6.0	12.0	.0	52.0

Table 7.225

Baseline summary for BLOOMIND-BRAS 085

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 8 20	1843913181.4	.0	12.4	3.2	.0	11.6	-13.2	.0	52.3

Table 7.226

Baseline summary for BLOOMIND-WESTFORD

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 8 20	1316252671.5	.0	12.5	-7.9	.0	12.4	8.8	.0	50.6

Table 7.227

Baseline summary for BREST -MOJAVE12

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 8 31	7945694704.3	-17.6	22.0	80.1	12.2	8.0	63.8	-35.4	31.4
89 9 5	7945694736.2	14.3	19.9	57.6	-10.4	7.4	128.9	29.7	28.8

Table 7.228

Baseline summary for BREST -MOTO										
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical			
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma	
89 8 31	2029686970.8	-33.1	7.1	19.5	-7.6	5.6	-112.2	-42.5	30.5	
89 9 2	2029687007.9	4.0	5.8	32.3	5.2	7.1	-101.4	-31.7	23.3	
89 9 3	2029687025.6	21.7	6.4	42.2	15.0	10.2	-2.9	66.9	29.3	
89 9 5	2029687004.4	.5	7.2	26.9	-.2	5.6	-49.8	20.0	27.5	

Table 7.229

Baseline summary for BREST -ONSALAGO										
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical			
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma	
89 9 5	1480502018.6	.0	5.8	15.0	.0	5.3	-6.5	.0	26.8	

Table 7.230

Baseline summary for BREST -RICHMOND										
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical			
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma	
89 8 31	6574959713.7	.0	17.5	51.6	.0	8.6	24.4	.0	32.8	

Table 7.231

Baseline summary for BREST -WESTFORD										
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical			
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma	
89 8 31	4970790330.8	-11.0	12.3	53.2	12.5	6.6	.2	-28.3	30.0	
89 9 5	4970790352.5	10.6	12.0	28.8	-11.9	6.4	53.5	24.9	28.1	

Table 7.232

Baseline summary for BREST -WETTZELL										
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical			
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma	
89 8 31	1275262992.5	-18.0	5.2	11.3	-13.1	4.7	-55.4	-42.3	26.6	
89 9 2	1275263016.4	5.9	4.2	33.3	8.9	5.6	-34.6	-21.5	21.3	
89 9 3	1275263020.2	9.7	4.8	40.9	16.6	7.4	56.0	69.1	24.6	
89 9 5	1275263007.5	-3.0	5.2	24.5	.1	5.2	-18.0	-4.9	25.9	

Table 7.233

Baseline summary for CARNUSTY-MOJAVE12										
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical			
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma	
89 8 21	7568098953.2	.0	19.5	76.8	.0	7.6	117.1	.0	31.4	

Table 7.234

Baseline summary for CARNUSTY-RICHMOND										
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical			
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma	
89 8 21	6586356791.3	.0	18.3	47.4	.0	7.5	51.2	.0	33.9	

Table 7.235

Baseline summary for CARNUSTY-WESTFORD										
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical			
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma	
89 8 21	4848716956.3	.0	12.9	51.8	.0	5.9	36.1	.0	32.1	

Table 7.236

Baseline summary for CARRUSTY-WETZELL									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 8 19	1327033069.6	-20.5	11.3	44.0	16.6	19.8	16.1	15.3	52.5
89 8 20	1327033090.3	.2	9.5	58.0	30.6	15.6	-2.0	-2.8	43.6
89 8 21	1327033096.5	6.4	5.4	23.6	-3.8	4.3	23.7	22.9	27.6
89 8 23	1327033086.3	-3.7	7.8	30.6	3.2	9.2	-31.3	-32.1	30.7

Table 7.237

Baseline summary for CARROLGA-HRAS 085									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 7 19	1799165584.8	.0	12.2	4.4	.0	8.4	77.5	.0	47.0

Table 7.238

Baseline summary for CARROLGA-RICHMOND									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 7 19	992547370.2	.0	7.7	-.3	.0	9.0	-24.7	.0	44.3

Table 7.239

Baseline summary for CARROLGA-WESTFORD									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 7 19	1552637958.3	.0	10.8	8.7	.0	7.8	3.3	.0	42.2

Table 7.240

Baseline summary for CHLBOLTN-HAYSTACK									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
80 10 17	5072314469.0	14.0	11.3	123.0	-7.5	7.3	88.7	3.0	33.4
80 10 18	5072314456.5	1.4	10.4	133.4	2.9	6.7	124.0	38.3	32.3
80 10 19	5072314461.7	6.6	18.5	144.0	13.5	11.6	-115.4	-201.1	59.6
80 10 20	5072314463.5	8.4	10.2	143.1	12.6	7.0	88.0	2.4	31.6
80 10 21	5072314463.5	8.5	10.9	123.1	-7.4	6.7	119.3	33.6	31.3
80 10 22	5072314409.4	-45.7	13.3	123.2	-7.3	8.3	-71.1	-156.8	38.0
80 10 23	5072314452.2	-2.8	8.6	129.9	-.6	6.3	151.9	66.2	27.2

Table 7.241

Baseline summary for CHLBOLTN-HRAS 085									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
80 10 17	7663737336.4	-29.2	26.3	217.6	3.7	9.8	135.8	74.5	43.9
80 10 18	7663737380.5	14.9	30.6	214.9	1.0	8.5	95.4	34.1	46.9
80 10 19	7663737381.1	15.5	52.1	213.7	-.2	13.8	-177.8	-239.1	83.0
80 10 20	7663737350.5	-15.1	36.2	229.1	15.2	9.4	111.8	50.5	52.5
80 10 21	7663737373.0	7.4	32.9	209.1	-4.8	8.5	80.2	18.9	49.8
80 10 22	7663737281.4	-84.2	38.7	211.1	-2.8	10.1	-92.2	-153.4	58.2
80 10 23	7663737423.8	58.2	26.7	206.1	-7.8	7.8	61.3	.0	41.6

Table 7.242

Baseline summary for CHLBOLIN-ONSALA60

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
80 10 17	1109864329.7	5.3	6.3	31.0	-.7	5.2	-3.4	2.1	28.0
80 10 18	1109864323.8	-.5	6.5	40.9	9.2	5.8	-28.1	-22.7	29.2
80 10 19	1109864315.9	-8.4	12.9	20.4	-11.3	12.3	16.2	21.7	52.4
80 10 20	1109864323.9	-.4	6.4	31.8	.1	5.9	35.3	40.7	26.4
80 10 21	1109864324.7	.3	5.9	41.2	9.5	5.2	28.7	34.2	25.5
80 10 22	1109864314.9	-9.4	7.9	21.4	-10.3	7.1	-152.2	-146.7	33.4
80 10 23	1109864326.6	2.2	5.2	24.5	-7.2	4.7	13.6	19.0	23.0

Table 7.243

Baseline summary for CHLBOLIN-OVRO 130

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
80 10 17	7846991262.3	-4.0	23.5	190.9	10.5	10.0	63.4	32.8	39.3
80 10 18	7846991280.8	14.5	22.6	193.7	13.3	9.2	89.0	58.4	36.1
80 10 19	7846991265.1	-1.2	37.9	162.0	-18.4	15.0	-174.9	-205.5	62.8
80 10 21	7846991281.0	14.7	22.7	168.9	-11.6	9.3	49.6	19.0	35.6
80 10 22	7846991196.6	-69.7	27.8	175.2	-5.3	10.6	-131.8	-162.4	43.2
80 10 23	7846991280.7	14.4	18.8	180.4	-.1	8.3	88.8	58.2	31.7

Table 7.244

Baseline summary for DEADMANL-JPL MV1

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 2 3	174643147.1	.0	6.6	19.7	.0	8.9	12.8	.0	58.9

Table 7.245

Baseline summary for DSS15 -GILCREEK

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 11 7	3807400687.4	.0	3.4	38.0	2.3	2.7	7.9	13.7	11.4
89 7 27	3807400687.4	-.1	5.4	31.1	-4.6	3.9	-36.8	-31.0	17.1

Table 7.246

Baseline summary for DSS15 -GOLDVENU

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 11 2	21069152.1	.0	3.1	-2.8	.0	2.5	-.6	.0	13.5

Table 7.247

Baseline summary for DSS15 -HAYSTACK

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 11 7	3899992515.4	2.3	3.3	18.2	.5	3.1	-106.8	9.0	11.1
89 7 27	3899992506.9	-6.3	5.4	16.9	-.8	3.8	-135.0	-19.3	16.2

Table 7.248

Baseline summary for DSS15 -MOJAVE12

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 11 2	10011685.4	.0	3.1	2.2	.0	1.7	-5.6	.0	12.4

Table 7.249

Baseline summary for DSS15 -MOJ 7288

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 11 2	10063344.4	.0	3.6	-.1	.0	2.0	-6.3	.0	16.9

Table 7.250

Baseline summary for DSS15 -OVRO 130

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 11 2	236711198.2	-.5	2.9	4.1	.9	2.7	-18.8	-9.8	13.8
88 11 7	236711199.1	.4	2.7	1.6	-1.6	3.5	-1.8	7.2	11.8

Table 7.251

Baseline summary for DSS15 -OVR 7853

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 11 2	237345165.1	.0	3.0	4.0	.0	2.8	-22.1	.0	13.5

Table 7.252

Baseline summary for DSS15 -YAKATAGA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 7 27	3265203801.2	.0	9.3	37.1	.0	4.8	-50.6	.0	34.2

Table 7.253

Baseline summary for DSS45 -HARTRAO

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 4 16	9589254769.2	9.3	25.2	-112.0	-8.0	9.6	70.4	9.7	23.5
91 7 19	9589254687.9	-72.0	21.1	-91.9	12.2	8.6	74.8	14.0	19.6
91 10 8	9589254760.2	.3	41.0	-99.6	4.5	12.9	8.2	-52.6	36.2
91 12 11	9589254841.3	81.4	23.6	-112.7	-8.6	9.0	52.8	-7.9	23.9

Table 7.254

Baseline summary for DSS45 -KASHIM34

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 3 23	7436905073.2	30.9	6.0	-30.9	20.0	5.4	-14.9	-3.9	10.5
91 3 25	7436905026.4	-15.9	19.3	-57.5	-6.6	8.5	19.0	30.0	29.8
91 4 16	7436905056.0	13.7	15.2	-66.1	-15.2	8.7	21.9	32.9	26.0
91 7 19	7436905027.1	-15.2	12.2	-61.3	-10.3	7.3	41.7	52.7	21.2
91 8 26	7436904974.0	-68.3	9.4	-60.9	-9.9	6.8	-54.7	-43.6	16.3

Table 7.255

Baseline summary for DSS45 -KWAJAL26

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 7 17	5171635896.2	44.2	17.9	-66.4	4.0	8.3	-132.9	8.6	33.8
88 7 31	5171635808.7	-43.3	22.7	-72.4	-1.9	9.9	-115.9	25.6	45.3
88 8 1	5171635817.0	-35.1	25.6	-74.7	-4.3	10.5	-197.1	-55.6	52.8

Table 7.256

Baseline summary for DSS45 -MEDICINA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 10 8	12194863983.9	.0	46.3	20.0	.0	18.3	85.8	.0	25.2

Table 7.257

Baseline summary for DSS45 -MOJAVE12

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
88 5 24	10586283480.9	.0	31.3	-38.6	.0	12.4	-218.9	.0	35.0

Table 7.258

Baseline summary for DSS45 -SANTIA12

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
91 12 11	9928436326.5	.0	32.4	-530.4	.0	12.4	-872.0	.0	26.3

Table 7.259

Baseline summary for DSS45 -WETZELL

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
91 4 16	12156491074.1	-25.0	24.0	59.2	-19.6	10.6	108.6	44.6	15.3
91 7 19	12156491119.2	20.1	21.5	95.4	16.6	9.7	27.6	-36.5	13.9

Table 7.260

Baseline summary for DSS65 -EPLSBERG

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
91 12 2	1414346812.3	.0	1.2	6.0	.0	1.9	26.1	.0	4.6

Table 7.261

Baseline summary for DSS65 -BRAS 085

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
88 10 19	7975454833.5	.0	10.4	57.1	.0	4.7	124.6	.0	17.6

Table 7.262

Baseline summary for DSS65 -MATERA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
90 5 25	1765812130.2	-6.2	4.4	15.5	11.0	22.9	33.7	-2.7	27.1
90 9 6	1765812153.6	17.3	2.4	5.4	.9	2.4	-47.7	-84.1	8.9
90 12 21	1765812130.6	-5.7	2.2	9.0	4.5	2.4	28.8	-7.6	8.8
91 1 7	1765812129.5	-6.9	2.0	10.7	6.2	2.3	50.0	13.6	7.9
91 9 9	1765812140.2	3.9	1.7	2.5	-1.9	2.2	61.8	25.4	7.5
91 12 2	1765812134.3	-2.0	1.4	-5.5	-10.0	2.4	54.5	18.1	6.1

Table 7.263

Baseline summary for DSS65 -MOJAVE12

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
88 10 19	8395867416.4	.0	11.8	77.1	.0	4.6	169.8	.0	18.2

Table 7.264

Baseline summary for DSS65 -RICHMOND

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
88 9 1	6726067089.7	-5.7	18.3	49.6	6.3	9.1	157.5	41.9	41.3
88 11 10	6726067077.6	-17.7	11.9	33.3	-9.9	7.9	134.1	18.5	25.6
88 12 15	6726067102.9	7.5	7.3	45.3	2.0	4.9	103.0	-12.6	15.4

Table 7.265

Baseline summary for DSS65 -WESTFORD									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 9 1	5300362827.6	-7	9.1	45.8	2.9	5.0	91.3	-11.7	25.9
88 11 10	5300362822.6	-5.7	5.7	40.6	-2.3	5.6	99.5	-3.5	16.3
88 12 15	5300362822.0	-6.3	3.6	42.6	-3	3.5	101.8	-1.2	11.2
89 2 21	5300362824.6	-3.7	5.2	45.8	2.9	4.3	103.1	.1	14.7
89 6 4	5300362852.6	24.3	5.5	38.9	-4.0	4.7	112.8	9.8	15.7

Table 7.266

Baseline summary for EPLSBERG-MATERA									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 12 2	1333777570.1	.0	1.2	-5.9	.0	1.9	28.3	.0	4.7

Table 7.267

Baseline summary for EPLSBERG-MEDICINA									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 12 2	757049171.3	.0	1.2	-7	.0	1.5	-26.4	.0	4.8

Table 7.268

Baseline summary for EPLSBERG-BRAO 140									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
79 11 26	6334648486.2	.0	32.6	130.6	.0	25.3	65.0	.0	91.9

Table 7.269

Baseline summary for EPLSBERG-OVRO 130									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
79 11 26	8203742531.4	16.0	35.6	162.5	15.5	35.5	-15.9	-29.4	101.6
80 7 27	8203742536.5	21.0	19.2	189.4	42.4	12.5	49.8	36.3	42.6
80 7 28	8203742507.7	-7.8	16.9	169.4	22.5	10.4	2.1	-11.4	38.3
80 9 27	8203742479.5	-35.9	22.9	118.0	-29.0	10.5	61.0	47.5	40.4
80 9 28	8203742537.7	22.2	21.5	133.2	-13.7	9.0	-48.2	-61.8	34.1
80 9 29	8203742504.3	-11.1	22.3	140.5	-6.4	10.3	33.8	20.3	37.1

Table 7.270

Baseline summary for EPLSBERG-ROBLED32									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
83 5 6	1414092460.0	.0	8.3	40.1	.0	8.9	78.7	.0	53.0

Table 7.271

Baseline summary for EPLSBERG-WESTFORD									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
83 5 6	5592851128.8	.0	14.7	68.8	.0	6.2	93.7	.0	37.9

Table 7.272

Baseline summary for EPLSBERG-WETZELL									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 12 2	457481745.6	.0	.7	6.4	.0	1.0	-16.6	.0	3.3

Table 7.273

		Baseline summary for ELY -OVMO 130						Baseline Vertical		
yy mm dd	Baseline Length			Baseline Transverse			Value	Residual	Sigma	
	Value	Residual	Sigma	Value	Residual	Sigma				
		mm	mm	mm	mm	mm	mm	mm	mm	
86 4 3	378140556.3	.0	4.8	-12.6	.0	5.6	-6.3	.0	36.3	

Table 7.274

		Baseline summary for ELY -PLATTVIL						Baseline Vertical		
yy mm dd	Baseline Length			Baseline Transverse			Value	Residual	Sigma	
	Value	Residual	Sigma	Value	Residual	Sigma				
		mm	mm	mm	mm	mm	mm	mm	mm	
84 4 23	871865372.7	-10.0	13.4	11.0	6.7	16.0	-97.8	-110.4	106.8	
85 5 7	871865384.9	2.2	5.3	4.9	.5	6.8	22.8	10.2	43.7	
86 4 3	871865378.4	-4.3	13.6	-7.7	-12.0	17.8	50.9	38.2	93.9	

Table 7.275

		Baseline summary for ELY -VANDERBERG						Baseline Vertical		
yy mm dd	Baseline Length			Baseline Transverse			Value	Residual	Sigma	
	Value	Residual	Sigma	Value	Residual	Sigma				
		mm	mm	mm	mm	mm	mm	mm	mm	
87 5 11	734889071.3	6.4	8.3	-25.9	-50.1	7.8	41.2	-4.7	42.5	
88 4 30	734889056.7	-8.1	6.1	27.3	3.1	6.4	28.1	-17.8	47.3	
88 5 1	734889039.8	-25.1	14.2	32.3	8.1	18.5	23.5	-22.3	118.0	
88 10 26	734889066.9	2.1	3.9	28.3	4.1	4.3	34.8	-11.1	21.2	
88 10 27	734889066.9	2.1	4.2	39.5	15.3	5.5	63.0	17.2	21.6	

Table 7.276

		Baseline summary for ELY -WESTFORD						Baseline Vertical		
yy mm dd	Baseline Length			Baseline Transverse			Value	Residual	Sigma	
	Value	Residual	Sigma	Value	Residual	Sigma				
		mm	mm	mm	mm	mm	mm	mm	mm	
89 5 1	3580309245.4	2.6	12.4	9.0	2.7	7.8	-67.7	43.7	37.7	
89 5 2	3580309237.0	-5.8	13.1	.8	-5.4	8.5	-161.7	-50.3	41.2	
90 10 16	3580309261.5	18.7	15.5	7.2	1.0	8.5	-89.6	21.8	53.3	
90 10 17	3580309224.0	-18.8	17.6	8.0	1.8	10.5	-141.1	-29.7	58.1	

Table 7.277

		Baseline summary for ELY -YUMA						Baseline Vertical		
yy mm dd	Baseline Length			Baseline Transverse			Value	Residual	Sigma	
	Value	Residual	Sigma	Value	Residual	Sigma				
		mm	mm	mm	mm	mm	mm	mm	mm	
87 5 11	707152520.7	8.0	9.5	3.8	4.1	6.5	-82.4	-51.1	53.6	
88 4 30	707152511.0	-1.7	7.1	-5.5	-1.1	5.4	-7.7	30.6	48.7	
88 5 1	707152487.7	-25.0	21.0	-8.1	-7.7	9.1	38.4	69.7	119.4	

Table 7.278

		Baseline summary for FD-VLEA -BRAS 085						Baseline Vertical		
yy mm dd	Baseline Length			Baseline Transverse			Value	Residual	Sigma	
	Value	Residual	Sigma	Value	Residual	Sigma				
		mm	mm	mm	mm	mm	mm	mm	mm	
91 4 17	300458.2	1.1	3.9	1254.4	7.7	5.4	-513.0	.1	19.1	
91 5 17	300456.9	-.2	.4	1247.0	.3	.4	-515.1	-2.0	2.1	
91 5 31	300457.0	-.1	.4	1246.2	-.4	.4	-512.5	.5	2.6	
91 6 5	300457.8	.7	.7	1246.7	.0	.6	-509.4	3.7	3.2	

Table 7.279

		Baseline summary for FLAGSTAP-VERNAL						Baseline Vertical		
yy mm dd	Baseline Length			Baseline Transverse			Value	Residual	Sigma	
	Value	Residual	Sigma	Value	Residual	Sigma				
		mm	mm	mm	mm	mm	mm	mm	mm	
87 5 7	595755609.4	-.1	6.0	2.5	2.0	3.7	9.5	-6.4	33.6	
88 4 26	595755609.7	.3	13.1	-13.7	-14.2	9.8	50.4	34.6	78.3	

Table 7.280

Baseline summary for FLAGSTAP-WESTFORD

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 11 6	3497279292.2	9.7	13.0	.8	7.3	8.0	-67.3	31.7	45.4
90 11 7	3497279273.1	-9.4	12.8	-11.4	-4.9	6.6	-125.2	-26.1	41.2

Table 7.281

Baseline summary for FORTORDS-HATCREEK

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 11 9	470018690.5	62.3	7.5	25.7	-10.8	4.6	32.7	24.3	43.3
88 11 10	470018685.9	57.6	6.3	16.2	-20.4	3.4	-43.5	-51.9	31.1
89 2 4	470018682.6	54.4	5.6	29.1	-7.5	3.6	-47.2	-55.6	36.9
89 5 11	470018670.1	41.9	6.4	41.4	4.8	4.3	14.4	6.1	39.2
89 5 12	470018685.0	56.8	6.2	38.6	2.1	4.0	66.8	58.5	39.7
89 10 24	470018609.6	-18.7	6.0	35.6	-1.0	4.0	15.5	7.2	27.6
89 11 2	470018616.3	-12.0	4.7	53.6	17.0	4.5	-21.6	-29.9	32.8
89 11 3	470018616.5	-11.8	6.2	40.0	3.4	5.6	-22.2	-30.5	38.8
89 11 7	470018597.8	-30.5	5.8	37.2	.6	3.8	-30.9	-39.2	29.7
89 11 8	470018612.7	-15.6	5.1	33.6	-2.9	3.2	30.4	22.0	24.5
89 11 12	470018600.4	-27.9	5.6	44.2	7.7	3.6	-13.7	-22.0	28.0
89 11 13	470018611.7	-16.5	5.6	46.5	10.0	3.5	12.4	4.1	27.0
89 11 17	470018616.1	-12.1	6.1	35.6	-1.0	4.1	37.5	29.2	30.4
89 11 18	470018618.5	-9.7	5.6	32.3	-4.2	3.7	49.9	41.6	29.8
90 1 26	470018604.3	-23.9	5.6	37.1	.6	4.3	-19.7	-28.0	35.8
90 1 27	470018601.5	-26.8	5.1	51.1	14.5	4.3	66.7	58.4	33.2

Table 7.282

Baseline summary for FORTORDS-HAYSTACK

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 10 24	4225000773.9	.0	14.3	125.8	.0	8.6	-63.4	.0	34.7

Table 7.283

Baseline summary for FORTORDS-OVRO 130

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 11 9	319006658.6	9.5	6.1	19.0	-2.6	7.1	66.0	52.7	46.8
88 11 10	319006644.4	-4.7	4.3	23.5	1.9	6.1	-23.9	-37.3	39.4

Table 7.284

Baseline summary for FORTORDS-PRESIDIO

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 10 24	147938858.0	6.1	7.0	-16.1	3.5	5.7	62.1	-37.9	42.5
89 11 17	147938841.8	-10.1	8.6	-25.5	-6.0	7.7	202.3	102.3	56.5
89 11 18	147938852.6	.7	7.3	-19.8	-.2	5.9	68.6	-31.5	53.2

Table 7.285

Baseline summary for FORTORDS-PT REYES

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 11 9	197185404.7	38.8	6.4	7.8	30.5	6.1	43.0	31.5	44.8
89 11 7	197185349.4	-16.5	7.0	-38.1	-15.3	6.3	-48.0	-59.5	53.2
89 11 8	197185360.4	-5.5	6.1	-26.8	-4.0	5.5	14.8	3.3	46.5
89 11 12	197185348.6	-17.3	7.1	-24.8	-2.1	5.6	11.9	.4	53.2
89 11 13	197185360.3	-5.6	7.0	-31.0	-8.3	6.0	20.8	9.2	50.1

Table 7.286

Baseline summary for FORTORDS-QUINCY

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 11 2	382655480.6	.6	6.2	45.9	2.4	6.6	-45.0	-15.5	48.8
89 11 3	382655479.0	-1.0	7.9	40.8	-2.7	7.1	-7.9	21.6	57.5

Table 7.287

Baseline summary for FORTORDS-VIDMBERG

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 11 9	248717515.9	-30.2	5.9	-8.9	-29.1	5.6	48.9	46.7	43.6
88 11 10	248717516.8	-29.3	6.4	5.2	-15.0	4.2	-53.3	-55.4	36.3
89 2 3	248717509.8	-36.4	5.5	13.4	-6.8	4.5	29.0	26.8	39.3
89 2 4	248717518.2	-27.9	4.3	6.6	-13.6	3.7	14.0	11.8	31.8
89 5 11	248717523.2	-22.9	5.4	-8.6	-28.8	4.5	9.0	6.8	36.9
89 5 12	248717511.0	-35.1	5.2	-8.9	-29.1	4.8	85.9	83.7	41.0
89 10 24	248717561.3	15.2	6.0	30.8	10.6	4.9	-24.4	-26.5	30.6
89 11 2	248717562.5	16.4	5.5	29.2	9.0	5.3	-30.7	-32.8	38.8
89 11 3	248717547.2	1.1	6.6	29.7	9.5	6.0	-31.5	-33.7	44.1
89 11 7	248717575.0	28.9	5.6	38.5	18.3	4.6	-70.4	-72.5	32.6
89 11 8	248717561.7	15.6	4.8	30.6	10.4	4.0	-6.9	-9.1	26.7
89 11 12	248717567.8	21.7	5.7	31.6	11.4	4.3	-24.6	-26.8	30.9
89 11 13	248717559.8	13.6	5.4	30.8	10.6	4.4	-9.0	-11.2	29.8
89 11 17	248717556.2	10.1	6.2	32.5	12.3	5.0	25.7	23.5	34.9
89 11 18	248717560.2	14.1	5.3	32.4	12.2	4.3	44.5	42.3	31.8
90 1 26	248717563.5	17.4	5.1	33.3	13.1	4.7	-10.7	-12.9	36.8
90 1 27	248717572.3	26.2	4.6	26.7	6.5	4.5	84.2	82.1	34.0

Table 7.288

Baseline summary for FORTORDS-WESTFORD

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 10 24	4224718660.6	10.5	11.9	126.4	-26.3	6.3	-75.4	28.7	30.8
89 11 2	4224718636.7	-13.3	12.4	130.1	-22.6	5.8	-129.0	-24.9	34.3
89 11 3	4224718631.3	-18.8	15.1	116.9	-35.8	7.0	-153.6	-49.6	39.9
89 11 7	4224718629.1	-21.0	13.2	139.2	-13.5	6.8	-109.5	-5.4	35.6
89 11 8	4224718618.9	-31.2	10.8	141.3	-11.4	5.6	-112.4	-8.4	28.4
89 11 12	4224718648.3	-1.8	11.5	134.1	-18.6	6.4	-143.6	-39.6	31.8
89 11 13	4224718647.1	-3.0	11.8	131.3	-21.5	6.2	-95.7	8.3	31.8
89 11 17	4224718645.8	-4.3	12.5	123.5	-29.2	7.3	-101.1	2.9	33.9
89 11 18	4224718658.3	8.3	12.3	136.0	-16.7	6.4	-23.0	81.1	33.3
91 7 23	4224718684.1	34.0	9.3	200.7	48.0	4.5	-59.6	44.4	25.2
91 7 24	4224718660.2	10.1	10.0	202.3	49.6	4.6	-162.5	-58.4	27.4

Table 7.289

Baseline summary for FORTORDS-YLOW7296

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 7 23	2897818095.8	1.4	8.1	-1696.3	-5.1	5.2	302.8	48.8	29.0
91 7 24	2897818093.0	-1.4	8.3	-1686.2	5.0	5.1	202.9	-51.2	29.7

Table 7.290

Baseline summary for FORT ORD-GILCREEK

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 2 14	3530381360.7	-7.2	12.8	35.6	-1.7	5.3	2.0	-8.2	40.8
88 2 15	3530381387.3	19.5	15.6	42.8	5.4	6.0	32.6	22.4	44.8
88 2 18	3530381367.3	-5	11.3	31.7	-5.7	4.9	16.6	6.4	37.7
88 2 19	3530381361.1	-6.7	14.4	41.5	4.1	5.3	-13.7	-23.9	47.1

Table 7.291

Baseline summary for FORT ORD-JPL MVI

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 10 19	426048767.7	.0	5.7	3.7	.0	5.5	3.7	.0	38.4

Table 7.292

Baseline summary for FORT ORD-MON PEAK

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 2 10	644206241.4	.0	6.9	-16.4	.0	5.2	-15.1	.0	46.9

Table 7.293

Baseline summary for FORT ORD-PT REYES

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 5 22	189551467.4	-4.3	8.2	1.5	-4.9	6.8	-123.5	-115.7	57.2
88 2 14	189551470.0	-1.7	6.0	2.1	-4.3	5.0	-29.4	-21.6	37.7
88 2 15	189551476.5	4.8	6.7	14.8	8.4	5.5	89.6	97.4	43.9

Table 7.294

Baseline summary for FTD 7900-HRAS 085

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 10 9	104737.7	.0	3.5	-1.5	.0	2.5	-15.8	.0	15.5

Table 7.295

Baseline summary for FTD 7900-MOJAVE12

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 10 9	1313407340.7	.0	3.8	3.4	.0	3.5	12.2	.0	17.2

Table 7.296

Baseline summary for FTD 7900-PIETOWN

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 10 9	564691753.1	.0	3.4	-1.2	.0	2.7	18.5	.0	14.8

Table 7.297

Baseline summary for FTD 7900-WESTFORD

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 10 9	3134986758.2	.0	6.3	-4.0	.0	6.5	-97.0	.0	22.4

Table 7.298

Baseline summary for GILCREEK-HALEAKAL

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 6 26	4837174032.8	-8.7	24.5	72.2	-3.5	8.0	26.7	-8.0	54.7
88 7 2	4837174027.9	-13.6	25.2	69.4	-6.3	8.7	131.7	97.0	59.0
88 7 10	4837174045.0	3.5	9.8	78.5	2.8	4.5	20.2	-14.5	24.0

Table 7.299

Baseline summary for GILCREEK-HARTRAO

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 5 24	11997919451.5	164.6	52.4	156.1	-12.8	12.6	-214.1	17.8	19.9
90 5 25	11997919396.6	109.7	34.7	200.2	31.3	12.8	-234.8	-2.8	17.2
91 12 18	11997919222.7	-64.2	44.7	165.2	-3.7	11.6	-249.3	-17.4	20.5
91 12 19	11997919184.1	-102.7	29.4	157.2	-11.7	11.8	-230.3	1.6	16.5

Table 7.300

Baseline summary for GILCREEK-KASHIM34

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 3 23	5427062793.5	-3.9	4.0	145.5	.7	4.0	93.3	-17.5	11.0
90 3 28	5427062781.7	-15.7	6.0	128.4	-16.4	4.5	94.1	-16.7	14.7
90 4 20	5427062798.5	1.1	4.7	142.6	-2.3	4.4	98.1	-12.7	12.6
90 5 24	5427062805.8	8.4	7.8	132.1	-12.7	5.1	138.4	27.6	18.9
90 5 25	5427062788.3	-9.1	7.5	128.5	-16.3	5.2	130.4	19.6	18.8
90 6 23	5427062811.8	14.4	13.8	141.2	-3.6	7.5	167.5	56.7	30.9
90 6 26	5427062811.7	14.3	8.1	147.7	2.9	5.2	99.6	-11.2	21.2
90 7 21	5427062789.6	-7.8	18.2	135.9	-8.9	9.2	126.9	16.1	39.0
90 8 12	5427062819.8	22.4	8.2	145.6	.8	5.9	94.6	-16.2	19.8
90 8 21	5427062796.6	-.8	4.1	135.7	-9.1	4.2	111.8	1.0	11.2
90 10 6	5427062795.0	-2.4	7.2	142.0	-2.8	5.3	66.5	-44.3	16.7
90 10 11	5427062804.4	7.0	4.5	145.6	.8	4.6	147.1	36.3	13.0
90 11 18	5427062782.7	-14.7	9.5	141.2	-3.6	6.6	64.5	-46.3	23.1
90 12 18	5427062792.9	-4.5	19.1	108.1	-36.8	12.9	226.1	115.3	34.3
91 2 25	5427062786.1	-11.3	8.8	154.9	10.1	6.5	138.9	28.1	20.8
91 3 25	5427062769.9	-27.5	14.6	146.6	1.8	7.5	104.3	-6.5	32.4
91 4 2	5427062805.2	7.8	7.8	161.0	16.2	5.6	71.4	-39.4	20.8
91 5 15	5427062804.3	6.9	10.7	162.1	17.3	6.3	93.9	-16.9	23.2
91 7 10	5427062811.5	14.1	12.3	143.6	-1.2	7.9	124.8	14.0	29.9
91 8 26	5427062798.0	.6	6.5	160.9	16.0	5.5	125.8	15.0	15.7
91 12 18	5427062797.3	-.1	8.0	158.5	13.6	5.4	124.6	13.8	17.9
91 12 19	5427062794.6	-2.8	7.7	163.0	18.2	5.1	121.8	11.0	18.1

Table 7.301

Baseline summary for GILCREEK-LA-VLBA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 5 22	4157847389.8	6.5	2.6	1655.5	1.3	2.9	274.7	-29.3	7.5
91 6 29	4157847375.5	-7.8	2.5	1653.6	-.5	2.9	299.9	-4.1	7.4
91 7 11	4157847390.4	7.1	2.3	1657.5	3.4	2.8	298.5	-5.5	6.9
91 9 7	4157847379.2	-4.1	3.0	1657.9	3.8	3.3	349.8	45.8	8.7
91 10 16	4157847376.9	-6.4	2.6	1646.2	-8.0	2.9	297.9	-6.1	7.5
91 10 17	4157847392.4	9.1	3.3	1639.2	-15.0	3.3	301.6	-2.3	9.4
91 10 19	4157847384.7	1.4	3.0	1666.8	12.7	3.3	297.2	-6.8	8.8
91 10 21	4157847380.0	-3.3	2.3	1657.6	3.5	3.0	316.6	12.6	6.9
91 10 23	4157847382.9	-.4	2.7	1659.2	5.0	3.0	313.1	9.1	7.9
91 11 2	4157847381.6	-1.7	3.0	1647.5	-6.7	3.3	296.2	-7.8	8.3
91 12 5	4157847383.9	.6	1.8	1653.4	-.7	2.8	305.4	1.4	5.9

Table 7.302

Baseline summary for GILCREEK-MARCUS

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 6 26	5885337020.2	.0	10.1	321.1	.0	5.9	79.9	.0	22.4

Table 7.303

Baseline summary for GILCREEK-MARPOINT

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 2 11	5152474990.9	-58.3	27.6	-35.4	-75.8	55.7	-113.1	-49.0	178.6
88 2 26	5152475068.5	19.3	14.3	18.4	-22.1	36.7	-112.5	-48.4	84.8
88 3 17	5152475002.5	-46.7	36.2	13.1	-27.4	76.5	78.8	142.9	94.1
88 3 25	5152474997.7	-51.4	23.1	64.9	24.5	39.7	97.1	161.3	109.2
88 4 1	5152475047.6	-1.6	18.3	54.5	14.1	50.7	21.3	85.5	106.6
88 6 6	5152475027.1	-22.0	16.7	52.0	11.6	18.4	24.4	88.6	53.1
88 7 17	5152475035.6	-13.6	12.6	10.0	-30.4	16.5	-28.3	35.9	41.0
88 9 11	5152475143.9	94.8	38.8	30.9	-9.5	18.7	208.2	272.3	91.7
88 9 22	5152475020.0	-29.2	52.0	114.5	74.0	32.5	40.3	104.5	157.5
88 9 29	5152475035.8	-13.3	24.5	13.3	-27.1	42.3	16.7	80.9	95.9
88 10 7	5152475023.1	-26.0	26.3	-44.5	-85.0	53.9	170.9	235.1	99.7
88 12 16	5152475052.2	3.1	21.2	-10.9	-51.3	34.4	-55.3	8.9	85.7
88 12 22	5152475040.5	-8.6	18.0	49.4	9.0	7.2	-79.4	-15.2	36.2
89 1 6	5152475054.9	5.8	34.3	32.8	-7.6	64.8	8.7	72.9	106.8
89 1 15	5152475027.1	-22.0	26.2	65.1	24.6	25.1	-110.0	-45.8	62.7
89 2 20	5152475029.9	-19.3	28.2	26.9	-13.6	22.7	-165.3	-101.2	75.8
89 4 4	5152475051.5	2.4	17.1	37.7	-2.7	7.6	-9.8	54.4	41.8
89 6 5	5152475069.0	19.9	15.8	37.3	-3.1	7.3	-102.6	-38.4	31.3
89 6 28	5152475083.1	34.0	10.3	38.4	-2.0	4.5	-93.1	-28.9	22.1
89 7 19	5152475018.6	-30.5	13.0	36.3	-4.2	5.8	-76.7	-12.5	25.3
89 7 24	5152475038.6	-10.5	13.6	42.5	2.0	5.8	-63.0	1.1	32.3
89 8 8	5152475063.0	13.8	9.5	50.3	9.8	4.5	-98.7	-34.5	21.4
89 8 18	5152475045.5	-3.6	9.8	42.5	2.1	4.7	-37.9	26.3	21.9
89 8 25	5152475064.3	15.2	14.0	28.4	-12.0	5.9	-73.8	-9.6	29.1

Table 7.304

Baseline summary for GILCREEK-MATERA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 10 5	7659919188.9	60.1	25.6	92.0	13.4	6.9	-242.8	-117.2	37.1
90 11 9	7659919125.9	-2.9	24.7	95.1	16.4	7.5	-32.7	92.9	33.7
90 12 4	7659919137.5	8.8	23.5	84.8	6.2	8.4	-107.6	18.0	43.6
91 1 23	7659919088.2	-40.5	18.9	73.0	-5.7	6.4	-99.4	26.3	25.6
91 2 12	7659919122.6	-6.1	18.9	85.0	6.4	5.2	-160.0	-34.4	25.4
91 3 14	7659919136.8	8.1	15.1	94.7	16.0	5.4	-130.0	-4.3	22.0
91 4 3	7659919172.6	43.8	20.5	81.4	2.7	6.5	-126.1	-.5	26.2
91 5 8	7659919128.3	-.5	15.0	71.5	-7.1	5.5	-116.3	9.4	20.5
91 6 12	7659919140.5	11.8	15.5	86.6	7.9	6.4	-142.4	-16.7	20.6
91 7 17	7659919137.5	8.8	14.4	77.3	-1.4	6.0	-115.6	10.1	18.2
91 8 7	7659919117.3	-11.5	18.0	67.7	-11.0	6.2	-84.6	41.1	21.0
91 9 5	7659919153.6	24.9	21.7	84.2	5.6	6.2	-100.0	25.7	24.3
91 10 30	7659919106.4	-22.4	12.7	67.2	-11.4	5.2	-141.3	-15.7	16.2
91 11 13	7659919115.5	-13.3	9.5	67.5	-11.2	4.7	-128.1	-2.5	15.2
91 12 12	7659919152.2	23.5	18.7	72.2	-6.4	5.3	-151.8	-26.2	20.3

Table 7.305

Baseline summary for GILCREEK-MEDICINA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 12 22	7266952151.2	.7	15.2	112.4	26.1	7.8	-99.8	18.4	26.1
90 8 21	7266952155.9	5.3	5.5	96.7	10.4	4.4	-116.7	1.5	9.6
91 3 29	7266952144.9	-5.6	5.6	67.8	-18.5	4.4	-122.6	-4.4	10.2

Table 7.306

Baseline summary for GILCREEK-MIZUSGSI

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 11 25	5134268165.5	.0	16.4	-1176.0	.0	11.1	-594.5	.0	34.6

Table 7.307

Baseline summary for GILCREEK-BOBEY 6M

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 11 20	5522166146.1	-32.6	30.4	73.0	-27.9	14.0	77.7	27.0	61.8
90 1 24	5522166157.3	-21.4	18.8	86.9	-14.0	8.9	78.3	27.6	40.9
90 3 28	5522166144.8	-33.9	12.7	100.8	-1	6.1	99.5	48.9	25.8
90 7 21	5522166183.5	4.8	36.4	114.6	13.7	14.2	120.8	70.1	72.7
90 8 12	5522166174.7	-4.0	32.3	98.8	-2.1	12.6	114.3	63.6	61.4
90 11 18	5522166225.8	47.1	15.0	108.3	7.4	8.0	-64.0	-114.6	31.0
91 7 10	5522166225.5	46.8	22.1	114.5	13.7	9.5	34.9	-15.7	45.3

Table 7.308

Baseline summary for GILCREEK-WOTO

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 7 10	7973487667.1	-9.3	15.2	128.0	5.4	5.4	-129.1	14.0	19.1
89 7 19	7973487674.0	-2.4	13.5	118.8	-3.7	6.7	-170.2	-27.2	20.7
89 9 11	7973487707.8	31.3	20.1	122.4	-2	6.1	-104.2	38.9	26.0
91 3 14	7973487655.0	-21.4	29.9	111.4	-11.2	10.8	-198.3	-55.2	41.2

Table 7.309

Baseline summary for GILCREEK-NRAO 140

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 9 7	5034558667.3	.0	6.1	35.1	.0	4.4	-89.7	.0	14.7

Table 7.310

Baseline summary for GILCREEK-PINPLATS

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 2 10	3999058533.3	-9.1	11.2	54.0	5.6	4.9	43.8	32.9	33.5
90 2 11	3999058552.6	10.2	11.9	42.1	-6.4	5.3	-22.2	-33.1	33.5

Table 7.311

Baseline summary for GILCREEK-PVERDES

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 2 5	3923759634.4	-8.2	11.9	56.5	-1.8	5.5	-1.5	21.0	34.5
90 2 6	3923759649.4	6.8	10.8	59.5	1.2	4.6	-38.2	-15.7	29.8

Table 7.312

Baseline summary for GILCREEK-QUINCY

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 11 2	3227111803.8	12.9	12.2	45.5	7.1	6.3	-33.5	-25.2	41.7
89 11 3	3227111799.4	8.5	13.1	40.1	1.7	6.9	11.2	19.6	46.7
90 10 8	3227111778.4	-12.5	11.3	33.9	-4.5	5.6	2.3	10.6	40.2
90 10 9	3227111785.6	-5.3	11.8	36.2	-2.1	5.5	-10.1	-1.8	41.4

Table 7.313

Baseline summary for GILCREEK-SANPAULA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 1 31	3841665979.1	-7.2	13.6	63.2	1.1	5.8	-19.3	16.0	39.6
90 2 1	3841665993.3	7.1	13.5	61.2	-.9	5.3	-51.3	-16.0	39.7

Table 7.314

Baseline summary for GILCREEK-SANTIAL2

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 12 18	10696510857.0	4.6	39.4	1562.0	-4.1	10.0	728.1	3.3	28.3
91 12 19	10696510850.0	-2.4	28.7	1569.7	3.6	9.5	722.8	-2.0	21.8

Table 7.315

Baseline summary for GILCREEK-SEATTLE1

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 8 9	2429596196.6	-11.8	9.8	23.2	4.4	5.6	91.0	60.3	42.4
90 8 10	2429596225.7	17.4	11.9	12.3	-6.5	6.7	-61.4	-92.1	52.4

Table 7.316

Baseline summary for GILCREEK-SEST

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 5 24	10483693348.3	17.8	32.6	-55.1	10.0	12.6	-93.6	12.4	24.3
90 5 25	10483693307.0	-23.5	37.5	-78.2	-13.1	14.4	-123.5	-17.5	28.9

Table 7.317

Baseline summary for GILCREEK-SHANGHAI

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
86 6 14	6619027546.9	.0	69.4	141.8	.0	43.2	235.9	.0	155.1

Table 7.318

Baseline summary for GILCREEK-TRYSILMO

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 11 9	5678966116.2	24.5	13.6	205.4	-.5	5.3	-382.1	-23.8	26.4
91 11 16	5678966102.9	11.2	8.9	207.7	1.8	4.3	-359.5	-1.3	18.0
91 12 10	5678966087.9	-3.8	11.5	203.5	-2.5	4.7	-344.9	13.4	23.2
91 12 15	5678966084.4	-7.4	8.4	203.8	-2.1	4.2	-368.5	-10.2	16.8
91 12 21	5678966089.5	-2.2	10.4	207.0	1.1	4.6	-349.9	8.4	20.9
91 12 31	5678966069.4	-22.3	13.6	209.2	3.2	5.5	-331.0	27.3	30.1

Table 7.319

Baseline summary for GILCREEK-VICTORIA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 8 2	2318448276.9	-.1	10.3	11.1	-3.8	5.1	8.2	16.0	42.8
90 8 3	2318448284.3	7.2	12.1	13.3	-1.6	5.9	-6.8	.9	48.4
90 8 4	2318448270.3	-6.8	11.8	20.6	5.6	5.4	-30.7	-22.9	50.1

Table 7.320

Baseline summary for GILCREEK-YELLOWKN

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
84 8 25	1631193649.9	-7.2	7.2	56.1	7.2	5.2	155.3	32.8	43.1
85 9 5	1631193662.2	5.0	6.0	44.0	-4.9	4.3	101.2	-21.3	34.7

Table 7.321

Baseline summary for GILCREEK-YLOW7296

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 7 1	1630815494.0	-2.4	2.8	1015.6	-1.1	2.4	111.5	-7.1	10.5
91 7 13	1630815492.0	-4.3	4.9	1010.3	-6.4	4.6	146.3	27.7	21.2
91 7 14	1630815493.3	-3.0	4.9	1024.5	7.8	4.4	130.6	12.0	20.4
91 7 18	1630815502.0	5.6	3.9	1019.6	3.0	3.6	106.8	-11.7	18.7
91 7 19	1630815495.5	-9.9	3.9	1019.6	2.9	3.5	129.5	11.0	15.8
91 7 23	1630815489.3	-7.1	4.0	1024.8	8.1	4.0	127.0	8.4	18.0
91 7 24	1630815498.1	1.7	3.9	1011.3	-5.4	4.1	109.7	-8.8	16.0
91 8 4	1630815501.7	5.3	2.9	1013.6	-3.1	2.4	115.4	-3.2	10.7

Table 7.322

Baseline summary for GOLDFENU-BRAS 085

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
81 11 20	1302373944.1	-5.5	5.6	-1.1	-7.2	5.2	-9.3	4.4	35.6
82 6 22	1302373955.0	5.4	9.3	29.1	23.0	8.2	-48.0	-34.3	50.1
82 10 24	1302373953.9	4.3	6.1	-3.0	-9.0	10.9	2.5	16.1	39.8

Table 7.323

Baseline summary for GOLDFENU-KASHIM34

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 8 21	8101501399.0	.0	7.1	121.1	.0	6.2	175.5	.0	11.3

Table 7.324

Baseline summary for GOLDFENU-KASHIMA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 8 13	8101442306.4	.0	10.5	117.6	.0	7.4	175.6	.0	15.7

Table 7.325

Baseline summary for GOLDFENU-MEDICINA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 8 21	8838183458.4	19.4	7.2	96.7	15.2	4.8	-136.8	4.3	10.8
91 3 29	8838183419.0	-20.0	7.4	66.8	-14.7	4.7	-146.1	-4.9	11.6

Table 7.326

Baseline summary for GOLDFENU-MOJ 7288

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 11 2	12776768.0	.0	2.2	-3.4	.0	2.3	-5.7	.0	15.6

Table 7.327

Baseline summary for GOLDFENU-BRAO 140

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
81 11 20	3257509151.8	.0	7.0	22.8	.0	5.1	-85.7	.0	28.2

Table 7.328

Baseline summary for GOLDFENU-OVR 7853

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 11 2	258212541.4	.0	2.6	1.2	.0	2.0	-21.5	.0	11.5

Table 7.329

Baseline summary for GOLDVENU-PRESIDIO									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
83 8 28	580657651.9	.0	15.5	-22.3	.0	11.0	-171.8	.0	82.9

Table 7.330

Baseline summary for GOLDVENU-PT REYES									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
83 8 28	633483755.5	.0	14.2	-52.3	.0	9.9	-18.7	.0	70.2

Table 7.331

Baseline summary for GOLDVENU-QUINCY									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
82 10 24	639556785.2	.0	5.5	27.3	.0	6.7	39.0	.0	41.9

Table 7.332

Baseline summary for GOLDVENU-VMDNBERG									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
83 8 28	357563250.0	.0	9.7	-110.2	.0	8.4	73.3	.0	74.9

Table 7.333

Baseline summary for GORF7102-BRAS 085									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
89 5 31	2618744927.6	.0	6.5	-6.8	.0	5.0	20.8	.0	27.5

Table 7.334

Baseline summary for GORF7102-MARPOINT									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
89 5 31	79845258.1	-1.9	4.1	-3.2	-6.2	3.3	-24.9	-6.7	25.4
89 6 1	79845266.5	6.5	7.6	23.3	20.2	6.0	-1.6	16.5	39.8

Table 7.335

Baseline summary for GORF7102-SANTIA12									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
91 11 22	7492886974.3	.0	31.6	1274.3	.0	10.3	1220.7	.0	49.4

Table 7.336

Baseline summary for GORF7102-WETZELL									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
91 11 22	6522072797.8	.0	24.5	47.3	.0	7.8	-98.2	.0	43.9

Table 7.337

Baseline summary for GRASSE -MOJAVE12									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
89 9 15	8701934679.4	.0	21.6	83.9	.0	8.2	134.2	.0	32.1

Table 7.338

yy mm dd	Baseline summary for GRASSE -MOTO								
	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 9 13	1024494286.8	-2.9	4.1	12.6	.2	5.7	-22.8	20.0	24.1
89 9 14	1024494293.0	3.3	4.4	12.3	-.1	4.6	-57.6	-14.7	20.6

Table 7.339

yy mm dd	Baseline summary for GRASSE -RICHMOND								
	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 9 15	7392007137.8	.0	20.6	41.3	.0	9.4	108.8	.0	36.1

Table 7.340

yy mm dd	Baseline summary for GRASSE -WESTFORD								
	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 9 15	5890367638.7	.0	12.8	39.9	.0	7.5	94.4	.0	30.9

Table 7.341

yy mm dd	Baseline summary for GRASSE -WETZELL								
	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 9 13	753160843.8	-1.0	3.4	8.0	2.2	4.4	16.1	7.9	15.6
89 9 14	753160846.0	1.2	3.0	7.5	1.6	3.4	7.2	-1.0	12.7
89 9 15	753160841.4	-3.3	4.1	3.2	-2.6	3.7	-25.7	-33.9	23.9
89 9 17	753160848.0	3.3	4.7	5.2	-.7	3.3	18.3	10.1	17.5

Table 7.342

yy mm dd	Baseline summary for HALEAKAL-KADAI								
	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 6 26	386841603.6	-3.2	8.1	-25.0	-31.8	8.5	-36.0	-74.5	54.5
88 7 2	386841608.0	1.1	8.4	-7.2	-14.0	9.3	-48.5	-86.9	55.4
88 7 10	386841607.1	.3	3.0	14.7	7.9	3.6	59.7	21.2	19.9

Table 7.343

yy mm dd	Baseline summary for HALEAKAL-MOJAVE12								
	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 6 26	4090637528.8	-17.6	19.2	63.9	7.3	9.8	-44.6	52.5	57.3
88 7 2	4090637510.2	-36.1	19.5	51.0	-5.5	11.2	-130.9	-33.9	61.0
88 7 10	4090637555.1	8.7	7.8	55.6	-.9	5.4	-101.5	-4.5	25.5

Table 7.344

yy mm dd	Baseline summary for HARTRAO -HOBART26								
	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 12 21	9167618287.2	-49.7	61.4	-48.5	22.6	16.2	-184.1	-80.9	73.1
90 2 9	9167618305.9	-30.9	51.6	-69.9	1.1	19.4	-192.1	-88.8	79.6
90 3 16	9167618268.4	-68.4	99.5	-96.9	-25.8	32.2	-112.7	-9.5	105.5
90 4 27	9167618305.1	-31.7	34.9	-63.4	7.7	8.3	-133.3	-30.0	43.9
90 5 16	9167618268.3	-68.5	42.1	-61.3	9.8	10.5	-227.4	-124.1	52.7
90 5 24	9167618421.1	84.2	42.8	-41.9	29.1	12.7	67.6	170.8	44.2
90 5 25	9167618475.9	139.0	32.0	-62.6	8.4	10.0	-43.5	59.7	32.3
90 6 20	9167618171.1	-165.7	61.7	-68.9	2.1	11.8	6.3	109.6	82.3
90 7 18	9167618338.8	1.9	36.2	-77.8	-6.8	9.7	-232.5	-129.3	49.3
90 8 9	9167618239.6	-97.2	31.2	-59.9	11.1	9.7	-39.1	64.2	47.5

Table 7.344 (continued)

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 9 14	9167618250.3	-86.5	41.1	-74.5	-3.5	13.8	-161.9	-58.7	61.9
90 10 16	9167618374.0	37.2	37.5	-73.8	-2.8	12.7	-51.9	51.4	59.2
90 11 8	9167618270.7	-66.2	40.3	-73.5	-2.4	13.5	-211.2	-107.9	60.7
90 12 13	9167618315.3	-21.5	61.8	-56.2	14.8	17.0	-89.6	13.6	76.4
91 1 10	9167618249.3	-87.6	50.4	-64.3	6.8	14.3	-211.1	-107.8	66.5
91 2 12	9167618421.3	84.5	46.7	-52.2	18.9	11.4	-95.1	8.1	65.6
91 4 16	9167618358.3	21.5	26.1	-81.6	-10.6	9.9	-105.3	-2.0	25.9
91 5 16	9167618230.6	-106.2	45.9	-69.7	1.4	13.0	-157.7	-54.4	53.5
91 6 25	9167618346.5	9.7	50.8	-75.6	-4.6	14.1	-111.1	-7.9	60.2
91 7 9	9167618330.3	-6.5	45.5	-105.7	-34.7	11.5	-157.0	-53.8	57.1
91 7 19	9167618289.6	-47.2	21.5	-63.4	7.7	9.1	-104.6	-1.3	21.6
91 8 22	9167618343.5	6.7	50.4	-60.1	11.0	13.0	-49.7	53.5	68.6
91 9 10	9167618366.5	29.7	43.3	-67.0	4.0	10.9	30.1	133.3	54.2
91 11 21	9167618359.1	22.2	26.6	-74.2	-3.2	10.0	-155.7	-52.4	29.7
91 12 11	9167618407.3	70.4	22.0	-88.6	-17.6	8.8	-63.4	39.8	24.0
91 12 18	9167618348.7	11.8	40.0	-83.3	-12.3	9.0	-83.6	19.6	37.6
91 12 19	9167618372.2	35.4	29.6	-85.4	-14.4	9.4	-129.2	-26.0	28.2

Table 7.345

Baseline summary for HARTRAO -KASHIM34

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 5 24	11181747911.9	168.5	50.7	140.1	-45.8	14.8	-8.8	75.2	25.8
90 5 25	11181747891.6	148.2	33.8	180.7	-5.2	13.6	-38.2	45.8	19.1
91 4 16	11181747766.5	23.0	31.0	195.3	9.5	12.3	-120.3	-36.3	19.4
91 7 19	11181747667.0	-76.4	23.7	165.4	-20.5	10.7	-101.4	-17.5	14.9
91 12 18	11181747718.1	-25.3	44.0	216.2	30.3	11.6	-87.8	-3.8	26.1
91 12 19	11181747678.9	-64.5	30.2	202.7	16.8	11.5	-105.3	-21.3	19.4

Table 7.346

Baseline summary for HARTRAO -KASHIMA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 4 4	11181845850.2	-83.2	68.8	201.9	-22.0	18.4	-153.5	-86.7	46.5
90 5 9	11181845947.6	14.2	28.4	230.6	6.7	10.1	-52.5	14.2	18.8

Table 7.347

Baseline summary for HARTRAO -KAUAI

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 5 24	12723069165.4	109.5	55.6	-144.2	18.7	14.5	-296.4	62.8	14.5
90 5 25	12723069156.1	100.2	38.8	-137.4	25.6	13.0	-338.4	20.7	14.0
91 12 18	12723069016.7	-39.2	51.8	-174.2	-11.2	11.9	-393.7	-34.5	12.8
91 12 19	12723068932.2	-123.7	37.6	-186.0	-23.0	12.0	-390.4	-31.2	12.7

Table 7.348

Baseline summary for HARTRAO -MATERA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 11 20	7032844472.9	.0	16.6	111.4	.0	6.7	210.0	.0	27.0

Table 7.349

Baseline summary for HARTRAO -MOJAVE12

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 12 22	12260678951.4	-93.8	46.9	-27.2	33.6	16.4	239.2	-65.9	26.5
90 1 30	12260678979.1	-66.1	27.8	-25.1	35.7	11.5	244.6	-60.5	19.3
90 4 24	12260679037.5	-7.7	30.0	-46.8	14.0	11.6	283.9	-21.2	18.1
90 5 22	12260679034.6	-10.6	22.0	-42.6	18.2	10.6	292.8	-12.3	14.8
90 6 26	12260679031.2	-14.1	36.2	-30.1	30.7	12.3	273.0	-32.1	19.4
90 7 20	12260678991.1	-54.1	45.5	-45.8	15.0	14.9	303.4	-1.7	28.8
90 8 14	12260679124.5	79.3	69.3	-33.9	26.9	15.8	352.2	47.1	29.7
90 9 28	12260679045.6	.4	37.7	-47.2	13.6	12.9	279.0	-26.1	20.9
90 10 19	12260678998.9	-46.3	32.6	-27.3	33.5	13.1	304.0	-1.1	19.3
90 11 27	12260679068.3	23.0	23.7	-60.4	.4	11.9	320.3	15.2	15.7
90 12 11	12260679075.8	30.5	25.2	-89.8	-29.0	11.4	315.0	9.9	15.9
91 1 17	12260679060.9	15.6	43.9	-87.1	-26.3	15.4	332.2	27.1	25.0
91 2 14	12260679093.3	48.0	24.3	-71.4	-10.6	11.1	321.0	15.9	15.8
91 3 26	12260679039.8	-5.4	32.8	-54.8	6.0	13.5	289.2	-15.9	20.9
91 4 24	12260679148.2	103.0	27.3	-92.4	-31.6	13.2	329.7	24.6	20.3
91 5 8	12260678968.5	-76.7	34.6	-57.9	2.9	13.6	297.1	-8.0	20.6
91 6 12	12260679041.9	-3.3	29.7	-98.6	-37.8	12.0	347.3	42.2	18.2
91 7 17	12260678981.8	-63.4	24.6	-34.6	26.2	10.2	283.0	-22.1	15.0
91 8 7	12260679059.6	14.3	25.7	-95.6	-34.8	11.0	350.3	45.2	15.9
91 9 5	12260679063.4	18.2	24.9	-75.9	-15.1	11.0	316.1	11.0	15.4
91 10 30	12260679063.7	18.5	26.2	-54.1	6.7	9.7	308.4	3.3	13.6
91 11 13	12260679054.3	9.1	25.9	-74.9	-14.1	10.5	318.0	12.9	14.2
91 12 12	12260679041.1	-4.1	21.5	-82.0	-21.2	8.6	294.9	-10.2	11.6

Table 7.350

Baseline summary for HARTRAO -MOTO

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 5 8	6713445685.7	-35.0	21.5	73.1	5.3	8.9	58.6	-55.8	44.4
91 7 17	6713445718.7	-2.0	14.4	65.8	-2.0	6.8	61.2	-53.1	26.0
91 8 7	6713445741.8	21.1	14.3	69.0	1.3	7.5	145.1	30.7	27.8
91 9 5	6713445717.4	-3.3	13.9	65.3	-2.4	7.2	157.6	43.2	25.4

Table 7.351

Baseline summary for HARTRAO -NRAO85 3

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 11 20	10971697931.3	.0	28.4	-30.9	.0	11.2	290.6	.0	21.3

Table 7.352

Baseline summary for HARTRAO -SANTIA12

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 11 21	8424406048.7	-30.2	25.1	-1753.6	-20.1	10.9	1135.8	-5.4	33.6
91 12 11	8424406133.1	54.1	27.6	-1730.6	3.0	11.1	1146.0	4.9	31.9
91 12 18	8424406077.4	-1.6	42.8	-1729.6	3.9	10.8	1158.6	17.5	50.9
91 12 19	8424406058.9	-20.0	30.0	-1722.6	11.0	10.0	1133.3	-7.8	33.9

Table 7.353

Baseline summary for HARTRAO -SESHAN25

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 4 4	10160763353.3	-92.4	62.2	195.6	-24.2	18.2	-89.0	-75.6	51.6
90 5 9	10160763504.3	58.5	24.3	220.2	.4	9.2	-11.7	1.7	20.1
91 4 16	10160763473.5	27.7	28.4	215.3	-4.5	12.3	-34.5	-21.2	22.1
91 7 19	10160763401.6	-44.2	24.2	190.1	-29.7	11.0	-39.7	-26.4	19.5
91 10 8	10160763455.2	9.5	41.4	231.2	11.3	16.4	32.4	45.7	29.8
91 12 18	10160763407.7	-38.1	47.7	248.6	28.8	12.8	43.8	57.2	38.5
91 12 19	10160763391.8	-53.9	49.0	246.7	26.9	14.5	64.5	77.9	40.7

Table 7.354

		Baseline summary for HARTRAO -SEST						Baseline Vertical		
yy	mm dd	Baseline Length			Baseline Transverse			Value	Residual	Sigma
		Value	Residual	Sigma	Value	Residual	Sigma			
		mm	mm	mm	mm	mm	mm	mm	mm	mm
90	5 24	8572702592.6	22.3	41.7	-98.3	2.8	14.5	229.4	-6.4	49.1
90	5 25	8572702552.2	-18.0	37.5	-104.3	-3.2	15.5	240.4	4.5	41.2

Table 7.355

		Baseline summary for HATCREEK-HAYSTACK						Baseline Vertical		
yy	mm dd	Baseline Length			Baseline Transverse			Value	Residual	Sigma
		Value	Residual	Sigma	Value	Residual	Sigma			
		mm	mm	mm	mm	mm	mm	mm	mm	mm
84	4 27	4032976720.4	-12.9	6.5	35.6	8.8	6.3	-51.1	14.6	26.5
89	10 24	4032976770.3	37.0	11.0	15.7	-11.1	7.1	-80.1	-14.4	26.3

Table 7.356

		Baseline summary for HATCREEK-JPL MVI						Baseline Vertical		
yy	mm dd	Baseline Length			Baseline Transverse			Value	Residual	Sigma
		Value	Residual	Sigma	Value	Residual	Sigma			
		mm	mm	mm	mm	mm	mm	mm	mm	mm
83	6 30	789070042.4	30.9	5.7	-66.2	-43.4	6.7	24.5	-10.1	38.6
87	10 19	789069956.1	-55.5	7.6	2.1	24.9	5.1	50.7	16.2	48.8

Table 7.357

		Baseline summary for HATCREEK-KASHIM34						Baseline Vertical		
yy	mm dd	Baseline Length			Baseline Transverse			Value	Residual	Sigma
		Value	Residual	Sigma	Value	Residual	Sigma			
		mm	mm	mm	mm	mm	mm	mm	mm	mm
90	10 11	7557379013.8	.0	25.8	119.1	.0	8.7	150.1	.0	40.0

Table 7.358

		Baseline summary for HATCREEK-KODIAK						Baseline Vertical		
yy	mm dd	Baseline Length			Baseline Transverse			Value	Residual	Sigma
		Value	Residual	Sigma	Value	Residual	Sigma			
		mm	mm	mm	mm	mm	mm	mm	mm	mm
87	7 16	2870190264.3	-2.9	11.8	30.3	1.3	7.0	-24.2	-47.3	46.0
87	7 18	2870190268.7	1.5	8.7	28.5	-6	4.7	47.0	23.8	32.6

Table 7.359

		Baseline summary for HATCREEK-MAMMOTH						Baseline Vertical		
yy	mm dd	Baseline Length			Baseline Transverse			Value	Residual	Sigma
		Value	Residual	Sigma	Value	Residual	Sigma			
		mm	mm	mm	mm	mm	mm	mm	mm	mm
83	6 30	414535909.7	.0	9.3	-7.4	.0	6.6	-52.4	.0	49.4

Table 7.360

		Baseline summary for HATCREEK-PINFLATS						Baseline Vertical		
yy	mm dd	Baseline Length			Baseline Transverse			Value	Residual	Sigma
		Value	Residual	Sigma	Value	Residual	Sigma			
		mm	mm	mm	mm	mm	mm	mm	mm	mm
90	2 10	914296115.7	-10.1	4.9	16.5	3.6	3.8	10.5	8.5	33.0
90	2 11	914296137.2	11.4	5.2	8.4	-4.5	4.3	-6.7	-8.7	33.6

Table 7.361

		Baseline summary for HATCREEK-PVERDES						Baseline Vertical		
yy	mm dd	Baseline Length			Baseline Transverse			Value	Residual	Sigma
		Value	Residual	Sigma	Value	Residual	Sigma			
		mm	mm	mm	mm	mm	mm	mm	mm	mm
89	1 25	830152849.6	17.2	7.6	27.0	2.5	4.7	1.4	-3.4	37.7
89	1 26	830152858.7	26.2	7.2	21.8	-2.7	5.2	40.7	36.0	37.5
90	2 5	830152817.8	-14.6	5.4	25.9	1.4	4.3	18.7	13.9	33.2
90	2 6	830152825.0	-7.4	4.9	23.4	-1.1	3.5	-25.4	-30.2	29.0

Table 7.362

Baseline summary for HAYCREEK-SANPAULA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 1 29	745783179.7	4.3	5.8	24.4	-1.7	4.8	56.8	70.3	33.8
89 1 30	745783194.5	19.1	5.3	26.3	.3	5.5	-69.6	-56.2	34.2
90 1 31	745783158.7	-16.7	5.5	31.9	5.9	4.7	-25.3	-11.9	38.6
90 2 1	745783167.7	-7.7	5.7	22.5	-3.5	4.1	-21.4	-7.9	38.5

Table 7.363

Baseline summary for HAYCREEK-SHOPOINT

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 7 26	3229864839.0	.0	492.1	-63.0	.0	76.1	-882.5	.0	1904.4

Table 7.364

Baseline summary for HAYCREEK-YAKATAGA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 8 8	2569202492.1	-1.9	15.2	108.8	6.7	12.6	-106.4	-20.1	57.8
87 8 14	2569202503.6	9.5	9.7	105.0	2.9	4.2	-71.2	15.1	41.3
87 8 15	2569202482.7	-11.4	11.1	95.8	-6.3	5.5	-92.4	-6.1	46.3

Table 7.365

Baseline summary for HAYSTACK-KASHIM34

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 8 21	9501718942.1	.0	7.6	173.3	.0	5.9	167.4	.0	11.5

Table 7.366

Baseline summary for HAYSTACK-KASHIMA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
84 8 31	9501780074.3	105.7	19.7	111.7	-26.5	5.2	38.0	-112.1	21.8
84 9 3	9501779991.9	23.4	34.1	104.2	-34.1	8.6	77.7	-72.3	35.5
91 8 13	9501779928.1	-40.5	11.8	203.0	64.8	6.7	220.6	70.6	15.5

Table 7.367

Baseline summary for HAYSTACK-KODIAK

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 7 7	5466172815.5	.0	19.5	63.5	.0	5.9	89.0	.0	42.0

Table 7.368

Baseline summary for HAYSTACK-MARPOINT

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
82 6 19	677293406.4	-1.6	4.4	16.7	4.1	3.2	-25.4	7.9	22.0
82 6 20	677293409.8	1.7	4.5	8.5	-4.1	3.2	-43.3	-9.9	24.6

Table 7.369

Baseline summary for HAYSTACK-MEDICINA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 8 21	6143998947.2	-16.2	4.8	57.5	7.5	4.2	-82.1	-8.9	10.0
91 3 29	6143998978.7	15.3	4.7	42.8	-7.2	4.1	-63.4	9.7	10.4

Table 7.370

Baseline summary for HAYSTACK-PIETOWN

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 7 30	3263328889.3	7.6	2.1	4.0	-2.4	2.1	82.9	3.0	6.8
89 10 16	3263328886.2	4.5	1.8	10.7	4.3	1.9	85.1	5.2	5.5
89 10 17	3263328879.1	-2.5	1.5	7.0	.6	1.8	73.7	-6.2	5.0
89 10 18	3263328881.2	-.5	1.6	7.3	.9	1.8	75.9	-4.1	4.9
89 10 19	3263328878.5	-3.1	1.5	1.2	-5.2	1.7	94.1	14.1	4.7
89 10 23	3263328883.6	2.0	1.4	8.0	1.6	1.7	80.9	1.0	4.4
89 10 24	3263328878.0	-3.6	1.7	7.6	1.2	1.8	70.8	-9.1	5.0
89 10 26	3263328881.9	.3	1.6	10.7	4.2	1.8	75.3	-4.7	4.8
89 10 27	3263328881.5	-.1	1.3	6.1	-.3	1.6	77.1	-2.8	4.0
89 10 28	3263328874.8	-6.9	1.3	3.3	-3.1	1.6	71.7	-8.3	4.3
89 10 29	3263328885.4	3.8	1.3	1.3	-5.2	1.6	88.1	8.2	4.2
89 10 31	3263328880.5	-1.1	1.5	5.8	-.7	1.6	77.7	-2.2	4.6
89 11 1	3263328885.7	4.1	1.5	11.9	5.5	1.7	87.1	7.2	4.6

Table 7.371

Baseline summary for HAYSTACK-PLATTVIL

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
84 4 27	2753205378.2	.0	11.1	39.7	.0	6.7	133.0	.0	47.5

Table 7.372

Baseline summary for HAYSTACK-PRESIDIO

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 10 24	4224649418.2	.0	15.9	57.1	.0	8.5	125.9	.0	40.1

Table 7.373

Baseline summary for HAYSTACK-ROBLED32

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
83 5 6	5299699239.4	.0	26.0	111.6	.0	7.1	-36.2	.0	56.4

Table 7.374

Baseline summary for HAYSTACK-VMDNBERG

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 10 24	4229299763.8	.0	11.5	84.0	.0	7.5	53.0	.0	27.5

Table 7.375

Baseline summary for HAYSTACK-YAKATAGA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 7 27	4895243303.3	.0	14.1	94.1	.0	5.0	64.6	.0	33.2

Table 7.376

Baseline summary for HOBART26-KASHIM34

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 3 23	8071309341.9	18.4	7.0	-4.3	24.4	5.9	-46.1	-14.8	10.9
90 3 28	8071309331.8	8.4	11.2	-18.6	10.1	6.5	-83.1	-51.8	18.1
90 5 24	8071309338.8	15.4	20.5	-39.2	-10.5	8.7	-54.6	-23.4	27.5
90 5 25	8071309380.8	57.3	19.9	-24.8	4.0	9.8	7.5	38.8	27.8
90 6 23	8071309334.7	11.2	25.6	-47.8	-19.1	9.3	20.0	51.2	33.7
90 7 21	8071309340.2	16.8	30.5	6.0	34.7	15.5	-55.7	-24.5	45.4

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 9 11	8071309283.2	-40.3	29.7	-14.5	14.3	12.4	-60.1	-28.9	37.3
90 10 6	8071309312.1	-11.4	15.1	-26.1	2.7	7.7	-107.7	-76.4	23.8
90 11 18	8071309336.1	12.6	18.3	-1.5	27.2	8.8	-63.3	-32.1	29.1
90 12 18	8071309260.0	-63.4	27.3	-12.0	16.8	11.1	55.7	86.9	41.2
91 2 25	8071309326.8	3.3	25.8	-30.3	-1.6	10.3	40.7	72.0	38.7
91 3 25	8071309292.6	-30.9	22.1	-28.1	.6	8.9	-21.5	9.8	29.5
91 4 16	8071309330.4	6.9	19.1	-38.9	-10.2	9.7	-20.0	11.2	26.9
91 5 15	8071309328.2	4.7	20.2	-56.5	-27.8	9.0	-26.7	4.5	32.8
91 7 10	8071309292.9	-30.6	26.7	-36.6	-7.8	10.0	-16.9	14.4	41.3
91 7 19	8071309290.5	-32.9	15.3	-42.8	-14.1	8.2	7.1	38.3	21.7
91 12 18	8071309259.2	-64.3	18.5	-38.4	-9.7	7.7	-1.1	30.2	24.6
91 12 19	8071309287.2	-36.3	17.9	-58.7	-29.9	7.9	58.8	90.1	24.1

Table 7.377
Baseline summary for HOBART26-KASHIMA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 9 27	8071140691.0	51.3	29.8	-11.8	-.4	11.0	-28.4	28.4	42.4
89 11 26	8071140646.1	6.4	12.7	-5.8	5.6	7.4	-71.5	-14.8	18.4
89 12 19	8071140643.2	3.5	14.4	1.3	12.7	5.9	-35.3	21.4	20.2
89 12 20	8071140648.3	8.6	10.7	-14.5	-3.1	5.9	-60.9	-4.2	17.8
90 2 13	8071140651.9	12.2	12.3	-21.3	-9.9	6.6	-28.0	28.7	21.1
90 3 23	8071140628.4	-11.3	7.9	-2.6	8.8	6.1	-35.8	21.0	11.8
90 3 28	8071140634.4	-5.3	11.8	-17.7	-6.3	6.6	-88.9	-32.1	18.6
90 4 14	8071140609.2	-30.5	18.4	-17.0	-5.6	9.6	-116.1	-59.4	32.1
90 6 29	8071140643.4	3.7	10.0	-17.9	-6.5	6.2	-72.5	-15.8	14.5

Table 7.378
Baseline summary for HOBART26-MOJAVE12

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 12 20	10845184296.1	5.3	16.7	-30.7	-7.4	9.2	-212.0	-11.9	13.0
90 2 13	10845184307.4	16.5	19.1	-47.5	-24.2	9.7	-186.9	13.2	14.6
90 3 28	10845184271.3	-19.6	16.9	-60.1	-36.9	10.2	-225.7	-25.5	13.5
90 4 14	10845184270.0	-20.9	29.6	-22.5	.7	14.6	-261.1	-60.9	23.0
90 5 7	10845184299.0	8.1	35.7	-28.2	-5.0	12.5	-191.8	8.4	26.8
90 6 23	10845184378.4	87.5	26.9	-37.8	-14.6	11.6	-181.3	18.8	20.8
90 7 21	10845184295.4	4.5	36.1	-43.4	-20.1	12.4	-233.4	-33.3	29.2
90 9 9	10845184288.0	-2.8	32.5	-43.6	-20.4	12.1	-207.5	-7.4	24.1
90 10 6	10845184234.5	-56.3	23.0	-31.9	-8.6	11.6	-235.8	-35.7	16.8
90 11 18	10845184265.4	-25.5	27.7	-16.2	7.0	13.0	-235.2	-35.0	21.0
90 12 18	10845184371.3	80.5	34.2	-33.3	-10.0	13.7	-192.2	8.0	26.5
91 1 11	10845184374.2	83.3	44.6	2.2	25.4	19.7	-127.3	72.9	43.5
91 2 25	10845184325.3	34.5	38.5	-3.7	19.5	13.5	-173.6	26.6	26.0
91 5 15	10845184263.3	-27.6	28.5	-11.4	11.9	12.5	-165.2	35.0	20.5
91 6 26	10845184363.8	73.0	47.6	-18.8	4.4	13.6	-134.6	65.6	34.3
91 7 10	10845184305.0	14.2	35.8	-15.6	7.6	14.2	-190.9	9.2	26.8
91 8 21	10845184333.4	42.5	54.9	1.5	24.8	13.8	-191.1	9.0	38.3
91 9 26	10845184258.2	-32.7	38.3	-13.9	9.3	14.9	-164.3	35.8	31.9
91 11 20	10845184248.6	-42.2	22.7	31.3	54.6	11.1	-154.3	45.9	19.6
91 12 4	10845184273.6	-17.3	36.7	59.8	83.0	17.9	-132.8	67.4	32.6

Table 7.379
Baseline summary for HOBART26-NOBEY 6M

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 3 28	8086554620.6	-33.8	19.3	19.3	.5	7.7	-66.9	33.9	25.4
90 7 21	8086554632.7	-21.7	53.0	24.9	6.1	19.3	-65.9	34.9	70.7
90 11 18	8086554712.4	58.0	23.6	31.4	12.6	9.9	-175.5	-74.7	33.9
91 7 10	8086554647.5	-6.9	34.3	-2.6	-21.4	11.8	-86.3	14.5	51.2

Table 7.380

Baseline summary for HOBART26-ONSALA60

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 5 24	12256219583.3	-34.3	30.1	131.2	-4.8	12.2	23.4	-6.4	14.7
90 5 25	12256219652.7	35.2	30.5	142.0	6.0	13.5	36.8	7.1	15.4

Table 7.381

Baseline summary for HOBART26-SANTIA12

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 11 21	9522904354.7	-19.1	33.6	-750.7	-12.3	10.4	-678.5	20.9	27.4
91 12 11	9522904400.7	26.9	30.9	-723.9	14.4	12.1	-733.7	-34.4	26.8
91 12 18	9522904338.2	-35.6	41.3	-744.6	-6.3	11.6	-711.4	-12.1	34.8
91 12 19	9522904384.7	10.9	33.6	-730.8	7.6	10.9	-677.9	21.5	26.7

Table 7.382

Baseline summary for HOBART26-SESHAN25

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 12 19	7965496528.7	6.8	17.5	46.5	8.5	6.8	34.6	38.7	23.1
90 3 23	7965496531.7	9.8	7.3	48.2	10.1	5.7	6.8	10.9	10.9
90 6 29	7965496536.6	14.8	11.2	35.6	-2.4	6.4	-39.9	-35.7	16.0
90 9 11	7965496510.3	-11.6	22.9	51.4	13.4	11.6	-53.6	-49.4	32.7
91 3 25	7965496509.8	-12.1	16.4	39.0	.9	8.2	-42.1	-37.9	24.3
91 4 16	7965496522.9	1.0	19.1	17.3	-20.7	9.4	-1.5	2.6	27.0
91 7 19	7965496500.2	-21.7	18.0	9.7	-28.4	8.3	-2.2	2.0	24.2
91 12 18	7965496418.0	-103.9	28.0	32.8	-5.3	9.5	41.2	45.4	36.6
91 12 19	7965496436.2	-85.7	37.7	56.1	18.0	10.9	98.6	102.7	48.2

Table 7.383

Baseline summary for HOBART26-SEST

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 5 24	9773309624.4	-31.2	35.2	-151.4	8.6	11.5	-60.2	-35.7	32.9
90 5 25	9773309693.9	38.3	39.0	-172.3	-12.2	13.6	20.1	44.6	36.8

Table 7.384

Baseline summary for HOBART26-WESTFORD

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 5 24	12346564963.1	-21.4	30.0	-68.5	-49.1	12.8	-212.1	-3.1	13.7
90 5 25	12346565027.1	42.6	30.4	-81.9	-62.6	13.9	-200.0	8.9	15.1
91 12 18	12346564952.6	-31.9	28.4	23.2	42.5	13.0	-232.2	-23.3	12.7
91 12 19	12346564997.7	13.1	27.7	43.8	63.1	13.0	-189.9	19.1	12.5

Table 7.385

Baseline summary for HOBART26-WETTZEIL

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 4 16	12247179534.3	-25.0	27.1	105.5	17.2	11.2	106.0	17.9	15.8
91 7 19	12247179584.8	25.5	23.7	138.5	50.2	10.3	35.0	-53.1	14.4
91 12 18	12247179528.2	-31.1	28.6	61.5	-26.8	11.0	101.6	13.4	14.5
91 12 19	12247179579.1	19.8	27.3	38.2	-50.1	11.4	113.7	25.6	14.5

Table 7.386

Baseline summary for HOHENFRG-MOJAVE12

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 6 22	8257097584.6	- .8	20.6	93.4	-5.5	8.6	85.5	-9.6	30.1
89 6 27	8257097586.1	.8	20.8	103.4	4.5	7.7	104.1	8.9	28.9

Table 7.387

Baseline summary for HOHENFRG-MOTO

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 6 22	1825225878.9	-3.7	5.3	34.4	-.9	4.3	-65.7	-5.1	23.7
89 6 24	1825225881.9	-.8	5.6	37.5	2.2	6.8	-39.2	21.5	21.6
89 6 25	1825225889.5	6.8	4.9	47.3	12.0	9.3	-75.1	-14.4	17.3
89 6 26	1825225883.5	.8	4.6	43.1	7.8	6.8	-69.0	-8.3	18.1
89 6 27	1825225877.2	-5.4	5.6	30.0	-5.3	4.2	-35.9	24.8	26.0

Table 7.388

Baseline summary for HOHENFRG-RICHMOND

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 6 22	7347945820.7	-4.2	17.6	58.0	.1	7.8	35.2	6.1	30.3
89 6 27	7347945829.6	4.8	18.7	57.8	-.1	7.6	22.7	-6.4	30.9

Table 7.389

Baseline summary for HOHENFRG-WESTFORD

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 6 22	5694164261.9	-10.0	13.3	55.2	-4.3	6.7	49.1	4.9	28.1
89 6 27	5694164281.6	9.7	13.1	63.0	3.5	6.0	39.6	-4.6	27.4

Table 7.390

Baseline summary for HOHENFRG-WETTIZELL

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 6 22	465777112.1	-1.4	3.7	8.6	-3.7	3.6	-17.6	-14.6	23.2
89 6 24	465777111.4	-2.1	3.1	11.6	-.7	3.1	18.9	21.9	17.0
89 6 25	465777113.4	-.1	2.8	17.6	5.3	3.4	-20.8	-17.8	14.2
89 6 26	465777114.6	1.1	2.6	17.8	5.5	2.7	11.4	14.4	14.7
89 6 27	465777115.9	2.4	3.8	2.3	-9.9	3.4	-19.5	-16.5	24.4

Table 7.391

Baseline summary for HRAS 085-JPL MV1

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
82 10 17	1391413527.0	-124.2	15.0	-77.9	-54.7	11.5	190.4	157.3	88.3
83 6 30	1391413610.4	-40.8	6.8	-30.6	-7.4	10.2	-21.7	-54.8	46.7
87 10 19	1391413731.0	79.8	7.5	-4.1	19.0	6.3	42.4	9.3	43.2

Table 7.392

Baseline summary for HRAS 085-KODIAK

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 7 7	4645400664.8	.0	17.6	36.4	.0	6.1	61.7	.0	49.5

Table 7.393

Baseline summary for HRAS 085-LEONRDOCK

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 8 25	957117024.1	.0	4.8	2.7	.0	4.8	-8.8	.0	32.1

Table 7.394

Baseline summary for HRAS 085-MAMMOTHL

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
83 6 30	1580143778.0	.0	10.3	-5.3	.0	12.8	-86.0	.0	58.2

Table 7.395

Baseline summary for HRAS 085-MARPOINT

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
82 10 19	2570813388.4	13.9	8.8	44.8	32.0	8.1	21.3	54.9	42.4
83 8 30	2570813393.6	19.1	36.7	23.9	11.1	30.4	41.8	75.4	163.5
89 5 31	2570813370.3	-4.1	4.6	3.6	-9.3	4.3	-45.9	-12.3	19.3

Table 7.396

Baseline summary for HRAS 085-MCD 7850

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 10 7	8125163.0	.0	2.6	.9	.0	2.2	14.0	.0	13.0

Table 7.397

Baseline summary for HRAS 085-MEDICINA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 4 4	8604525608.2	49.4	258.3	117.1	26.3	21.3	-251.0	-139.4	290.1
87 5 4	8604525470.4	-88.5	29.1	118.0	27.2	7.5	-131.7	-20.0	35.6
87 12 10	8604525529.8	-29.1	19.8	106.7	15.9	5.7	-91.6	20.0	26.3
88 5 8	8604525611.3	52.5	29.8	91.6	.8	7.2	-122.3	-10.7	41.0
88 5 13	8604525566.2	7.4	24.5	95.3	4.5	6.6	-149.6	-37.9	33.4
88 5 18	8604525496.8	-62.1	43.8	83.4	-7.4	10.3	-88.1	23.5	54.2
88 8 6	8604525553.6	-5.3	12.7	78.5	-12.4	5.8	-102.0	9.6	18.5
88 8 21	8604525567.0	8.1	12.6	89.9	-.9	6.2	-109.2	2.4	20.5
88 10 30	8604525577.9	19.1	15.5	80.2	-10.6	6.7	-96.6	15.0	21.1
88 11 29	8604525551.3	-7.5	12.5	84.7	-6.2	5.9	-106.3	5.3	17.9
89 2 3	8604525570.4	11.6	25.0	63.5	-27.4	12.5	-106.4	5.2	32.5
89 2 18	8604525603.0	44.2	25.1	72.5	-18.3	13.2	-183.3	-71.7	32.4

Table 7.398

Baseline summary for HRAS 085-MILESMON

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 4 16	1751993829.4	.0	8.3	7.0	.0	4.9	6.2	.0	42.8

Table 7.399

Baseline summary for HRAS 085-MRAO85 3

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 5 31	2353779386.8	.0	4.7	.2	.0	4.2	-62.9	.0	21.2

Table 7.400

Baseline summary for HRAS 085-PENTICTH

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
84 8 25	2443354515.8	-4.5	15.3	32.5	8.0	5.2	181.3	107.2	76.1
85 8 29	2443354549.9	29.6	20.9	14.7	-9.9	12.8	-172.7	-246.9	98.4
85 9 5	2443354514.4	-5.8	10.9	20.0	-4.6	4.4	92.4	18.2	51.2

Table 7.401

Baseline summary for HRAS 085-PIETOWN

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 9 9	564620893.4	.6	2.4	1.8	.8	1.9	28.7	-7.0	11.9
88 10 7	564620892.0	-.7	2.2	.4	-.5	1.7	39.8	4.0	7.7
88 10 9	564620893.1	.3	2.5	.8	-.2	2.1	34.2	-1.5	9.2

Table 7.402

Baseline summary for HRAS 085-PINPLATS

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
85 11 3	1223294523.9	-27.4	11.2	-32.9	-12.5	10.7	85.6	72.5	60.3
86 2 27	1223294538.6	-12.7	9.0	-12.9	7.5	9.1	-48.0	-61.2	68.4
86 4 11	1223294545.6	-5.7	7.8	-31.5	-11.1	9.1	40.2	27.0	56.8
86 11 2	1223294555.4	4.1	4.4	-24.0	-3.6	4.6	40.3	27.1	32.2
86 12 14	1223294558.3	7.0	5.2	-10.0	10.4	5.7	-31.8	-44.9	33.0

Table 7.403

Baseline summary for HRAS 085-PRESIDIO

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
85 3 14	1870585809.9	-21.1	18.5	-16.2	.5	11.9	48.3	47.8	85.3
85 10 20	1870585821.6	-9.4	6.4	-24.4	-7.8	8.0	28.7	28.2	34.9
85 10 24	1870585825.8	-5.2	8.2	-16.6	.0	11.7	-97.1	-97.6	47.5
87 2 7	1870585853.1	22.1	7.7	-11.2	5.4	6.7	19.0	18.5	37.0

Table 7.404

Baseline summary for HRAS 085-PT REYES

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
85 3 14	1921015694.1	-8.1	14.3	-25.6	10.7	10.5	-34.8	-5.6	67.0
85 10 20	1921015704.9	2.7	8.3	-43.7	-7.4	8.7	-26.8	2.4	43.6

Table 7.405

Baseline summary for HRAS 085-ROBLED32

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
83 5 6	7975530221.5	.0	39.8	162.3	.0	11.5	-42.4	.0	59.7

Table 7.406

Baseline summary for HRAS 085-YELLOWKN

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
84 8 25	3572069881.0	6.7	15.6	15.6	-.2	4.5	217.5	68.4	48.4
85 9 5	3572069868.4	-5.9	14.7	16.0	.2	4.2	91.6	-57.5	44.3

Table 7.407

Baseline summary for JPL MV1 -MON PEAK

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
82 10 17	218307721.6	.0	7.6	7.8	.0	6.7	-213.6	.0	83.0

Table 7.408

Baseline summary for JPL MV1 -PRESIDIO

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 11 5	555228195.1	-3.3	6.1	8.4	-6.3	5.5	-51.0	-54.9	37.9
88 11 6	555228202.7	4.2	6.9	21.2	6.6	5.7	76.9	73.0	43.7

Table 7.409

Baseline summary for JPL MV1 -QUINCY

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
82 10 22	685704818.9	.0	86.2	-55.7	.0	30.8	-243.7	.0	430.9

Table 7.410

Baseline summary for KASHIM34-KASHIMA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 3 23	311197.4	1.4	2.7	1.2	2.1	2.8	16.1	13.2	10.7
90 3 28	311195.5	-6.6	3.3	.1	1.0	3.6	-6.6	-9.5	16.0
90 4 20	311200.3	4.2	3.3	-3.1	-2.1	4.2	8.5	5.6	13.4
90 5 11	311200.5	4.5	7.2	10.2	11.1	8.0	-35.0	-37.8	33.2
90 6 26	311196.7	.6	4.6	-4.8	-3.8	5.1	1.0	-1.9	20.4
90 7 1	311193.9	-2.2	1.8	-2.1	-1.1	2.1	-10.9	-13.8	13.9

Table 7.411

Baseline summary for KASHIM34-KAUAI

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 3 23	5709565756.1	42.1	4.8	53.9	14.8	4.6	-176.8	7.8	9.9
90 4 20	5709565746.9	32.9	5.7	45.4	6.2	4.9	-163.2	21.4	12.7
90 5 24	5709565715.1	1.1	10.2	40.7	1.5	6.8	-156.7	27.9	21.1
90 5 25	5709565723.1	9.1	10.2	35.8	-3.4	7.2	-174.5	10.1	21.8
90 9 11	5709565704.4	-9.7	22.1	28.6	-10.6	11.5	-180.0	4.6	42.3
90 10 11	5709565707.9	-6.1	5.5	38.8	-.4	5.3	-196.8	-12.2	13.3
91 3 25	5709565674.5	-39.5	16.6	35.2	-4.0	7.5	-227.0	-42.4	30.7
91 8 26	5709565635.4	-78.6	7.2	36.4	-2.8	6.0	-189.3	-4.7	15.3
91 12 18	5709565655.5	-58.5	12.0	20.2	-19.0	7.0	-251.3	-66.7	24.4
91 12 19	5709565627.7	-86.4	12.0	25.1	-14.1	6.9	-220.0	-35.4	25.8

Table 7.412

Baseline summary for KASHIM34-MARCUS

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 6 26	1812578162.5	.0	5.4	66.9	.0	4.8	-69.0	.0	20.0

Table 7.413

Baseline summary for KASHIM34-MEDICINA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 8 21	8811182224.6	.0	7.2	195.7	.0	6.4	-52.2	.0	10.8

Table 7.414

Baseline summary for KASHIM34-MOJAVE12

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 3 28	8091883097.5	-6.1	10.1	114.5	-10.1	6.2	-157.7	-2.1	15.3
90 6 23	8091883124.0	20.4	20.2	105.8	-18.8	9.1	-231.9	-76.3	28.7
90 7 21	8091883091.0	-12.6	26.5	122.2	-2.3	11.3	-156.5	-.9	34.5
90 8 12	8091883115.4	11.8	13.2	132.0	7.4	7.6	-115.5	40.1	21.1
90 10 6	8091883115.8	12.2	11.1	127.2	2.6	7.2	-135.4	20.2	17.4
90 11 18	8091883101.2	-2.4	15.3	144.2	19.6	8.9	-128.9	26.7	22.7
90 12 18	8091883066.1	-37.5	24.4	71.1	-53.5	15.4	-281.1	-125.5	31.0
91 2 25	8091883084.5	-19.1	13.4	134.2	9.6	8.2	-182.2	-26.6	20.1
91 4 2	8091883108.3	4.7	12.9	138.1	13.5	7.4	-115.5	40.1	20.5
91 5 15	8091883103.7	.1	15.0	133.1	8.5	8.0	-134.6	21.0	21.8
91 7 10	8091883107.6	4.0	17.8	103.5	-21.1	10.0	-194.0	-38.4	28.0

Table 7.415

Baseline summary for KASHIM34-MOBEY GM

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 3 28	197421502.2	-2.3	4.6	5.1	6.7	5.2	19.2	66.3	26.0
90 7 21	197421519.9	15.5	13.3	-10.4	-8.8	14.3	-3.8	43.2	72.9
90 8 12	197421485.9	-18.6	11.8	-3.4	-1.8	10.0	35.9	83.0	66.1
90 11 18	197421508.9	4.5	5.8	-9.0	-7.5	5.8	-135.8	-88.8	29.3
91 7 10	197421505.8	1.4	7.9	1.3	2.9	9.0	-88.0	-41.0	43.5

Table 7.416

Baseline summary for KASHIM34-ONSALA60

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 5 24	7969420813.7	-12.2	12.7	181.9	9.7	7.7	-86.0	-1.0	18.3
90 5 25	7969420804.3	-21.6	12.4	172.2	.0	7.9	-102.7	-17.6	18.1
90 8 21	7969420835.8	9.9	6.7	166.6	-5.5	5.8	-77.8	7.2	11.3

Table 7.417

Baseline summary for KASHIM34-SANTIA12

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 12 18	12419326073.5	2.3	47.5	1316.7	-2.3	13.6	-915.9	7.0	15.0
91 12 19	12419326069.9	-1.3	35.1	1321.1	2.1	13.1	-928.1	-5.2	13.0

Table 7.418

Baseline summary for KASHIM34-SESHAN25

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 3 23	1875725750.0	9.4	2.6	.4	12.2	2.3	58.7	19.0	8.9
90 6 26	1875725751.1	10.5	5.5	-10.3	1.5	4.4	22.3	-17.4	19.5
90 9 11	1875725734.6	-6.0	11.0	-1.2	10.6	7.3	1.5	-38.3	35.0
91 3 25	1875725731.5	-9.1	8.8	-26.8	-15.0	6.6	-9.7	-49.4	35.4
91 4 16	1875725743.9	3.3	8.0	-21.6	-9.8	7.4	40.2	.4	28.2
91 7 19	1875725738.1	-2.5	6.6	-26.1	-14.3	5.6	10.0	-29.7	23.8
91 8 26	1875725727.3	-13.2	4.8	-27.4	-15.6	4.3	12.3	-27.4	15.6
91 12 18	1875725703.5	-37.1	9.5	-34.3	-22.5	7.4	77.5	37.8	38.6
91 12 19	1875725655.5	-85.1	12.6	-46.7	-34.9	9.6	80.5	40.8	55.1

Table 7.419

Baseline summary for KASHIM34-SEST

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 5 24	12389079062.5	11.0	38.6	-58.5	14.9	14.9	-198.9	.9	15.1
90 5 25	12389079037.3	-14.2	43.9	-94.3	-20.9	17.6	-201.1	-1.3	17.6

Table 7.420

Baseline summary for KASHIMA-SINTOTU

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 7 24	846282864.7	.0	7.3	777.0	.0	4.2	-1198.7	.0	22.8

Table 7.421

Baseline summary for KASHIMA-WESTFORD

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 5 24	9502255575.0	8.1	14.2	183.4	-10.4	7.4	-179.4	4.1	16.8
90 5 25	9502255551.5	-15.5	13.3	175.3	-18.5	7.5	-186.4	-2.8	16.8
91 12 18	9502255575.2	8.3	16.2	210.2	16.4	8.2	-191.6	-8.0	18.5
91 12 19	9502255570.9	3.9	15.9	209.7	15.9	7.6	-177.7	5.9	17.7

Table 7.422

Baseline summary for KASHIMA-WETTZELL

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 4 16	8475605267.1	3.5	16.4	207.5	10.4	8.7	-46.2	58.9	23.0
91 7 19	8475605246.3	-17.4	13.6	190.6	-6.4	7.5	-177.0	-72.0	18.3
91 12 18	8475605277.9	14.3	15.1	196.5	-5	7.6	-91.3	13.8	19.7
91 12 19	8475605267.8	4.2	15.0	196.3	-8	7.6	-82.7	22.4	18.0

Table 7.423

Baseline summary for KASHIMA-MARCUS

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 6 26	1812270517.9	.0	5.8	71.8	.0	5.2	-69.6	.0	21.5

Table 7.424

Baseline summary for KASHIMA-MEDICINA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 5 9	8811399460.5	.0	17.6	208.9	.0	6.8	-139.4	.0	21.2

Table 7.425

Baseline summary for KASHIMA-MIYAZAKI

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
86 10 21	948551356.3	7.3	9.7	19.1	5.7	7.7	-41.6	-41.3	40.4
88 10 7	948551333.4	-15.6	12.7	8.7	-4.6	9.1	55.6	55.9	52.7
88 10 13	948551353.0	4.0	15.1	6.6	-6.7	12.7	20.9	21.2	64.4

Table 7.426

Baseline summary for KASHIMA-MIZUSGSI

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 11 25	353521608.6	.0	8.2	805.0	.0	6.7	-1244.4	.0	26.3

Table 7.427

Baseline summary for KASHIMA-BOBEY GM

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 11 20	197660882.9	-8.8	11.2	6.1	4.0	11.3	47.1	22.2	58.0
90 1 24	197660885.2	-6.4	7.4	-6.0	-8.1	7.2	13.1	-11.9	39.3
90 3 28	197660896.2	4.5	4.9	6.2	4.0	5.7	25.8	.9	27.5

Table 7.428

yy mm dd	Baseline summary for KASHIMA -SHANGHAI								
	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
86 6 14	1852075233.4	.0	32.6	46.6	.0	22.1	252.1	.0	171.1

Table 7.429

yy mm dd	Baseline summary for KASHIMA -SINTOTU								
	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
90 7 27	846453901.4	2.4	8.8	769.7	1.7	4.6	-1164.0	42.1	25.7
90 7 28	846453904.8	5.8	9.1	765.4	-2.6	5.0	-1233.5	-27.5	26.5
90 7 31	846453892.4	-6.6	8.2	768.7	.7	5.1	-1225.5	-19.5	28.1

Table 7.430

yy mm dd	Baseline summary for KASHIMA -TITIJIMA								
	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
87 11 19	991640396.9	44.0	25.2	17.7	-3.9	11.6	-71.1	-23.9	84.2
87 11 26	991640352.6	-.3	15.0	6.4	-15.2	7.1	4.8	52.0	56.3
89 11 29	991640324.8	-28.2	20.4	65.4	43.8	11.5	-139.2	-91.9	84.0

Table 7.431

yy mm dd	Baseline summary for KASHIMA -USUDA64								
	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
90 7 31	208219605.9	.0	5.6	-1392.2	.0	5.8	-1280.8	.0	26.0

Table 7.432

yy mm dd	Baseline summary for KASHIMA -WETBORSE								
	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
89 8 11	6047388113.2	.0	23.7	125.4	.0	8.2	82.4	.0	45.9

Table 7.433

yy mm dd	Baseline summary for KAHAI -LA-VLBA								
	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
91 5 22	5199822539.4	.9	3.3	371.8	-12.4	4.1	-362.2	-6.6	7.9
91 6 29	5199822523.5	-15.0	3.1	360.3	-23.8	4.2	-372.9	-17.3	7.7
91 7 11	5199822536.2	-2.3	3.0	374.0	-10.2	3.8	-374.5	-18.9	7.6
91 9 7	5199822521.1	-17.4	4.1	376.3	-7.8	4.5	-291.6	64.0	9.4
91 10 16	5199822560.2	21.7	4.3	397.4	13.2	4.2	-304.1	51.5	9.8
91 10 17	5199822549.7	11.2	5.8	388.0	3.8	5.0	-365.1	-9.5	13.5
91 10 19	5199822552.3	13.8	4.5	411.6	27.4	4.7	-346.0	9.6	10.7
91 10 21	5199822537.7	-.8	3.4	390.4	6.2	4.2	-323.8	31.8	8.4
91 10 23	5199822527.6	-10.9	4.1	382.9	-1.2	4.5	-347.3	8.3	9.5
91 11 2	5199822538.7	.2	3.9	384.0	-.2	4.6	-391.0	-35.4	8.7
91 12 5	5199822545.8	7.3	2.4	396.3	12.2	4.0	-381.8	-26.2	6.4

Table 7.434

yy mm dd	Baseline summary for KAHAI -MARPOINT								
	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
88 6 6	7391325590.5	-33.3	25.9	106.2	-1.7	33.4	-12.4	109.6	59.3
88 7 17	7391325586.3	-37.5	23.7	9.1	-98.8	30.3	-74.2	47.8	45.7
88 9 11	7391325636.6	12.7	32.1	68.7	-39.3	14.9	-8.7	113.3	60.2
89 1 15	7391325611.1	-12.7	60.9	131.1	23.1	41.6	-77.2	44.7	91.0
89 2 20	7391325728.6	104.8	43.6	83.3	-24.7	42.5	-96.0	26.0	74.2
89 6 5	7391325641.0	17.2	18.1	133.4	25.4	9.4	-219.1	-97.2	31.9

Table 7.435
Baseline summary for KAUAI -MATERA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 10 5	10894161077.7	167.4	47.4	299.3	-39.7	10.5	-118.4	-76.8	41.1
90 11 9	10894160931.2	20.9	32.4	313.3	-25.7	9.6	28.3	70.0	26.5
90 12 4	10894160907.6	-2.7	49.0	310.8	-28.3	10.6	-92.3	-50.6	47.8
91 1 23	10894160892.6	-17.7	31.4	312.5	-26.5	8.1	-10.5	31.2	21.6
91 2 12	10894160938.1	27.8	31.1	335.0	-4.1	7.1	-44.0	-2.3	22.0
91 3 14	10894160942.0	31.6	25.2	347.0	8.0	7.4	-45.9	-4.3	19.3
91 4 3	10894160929.0	18.7	28.7	324.5	-14.5	8.6	-73.2	-31.6	21.2
91 5 8	10894160891.2	-19.1	29.0	331.2	-7.9	8.1	-66.0	-24.3	20.8
91 6 12	10894160929.0	18.7	22.8	339.4	.4	8.6	-60.5	-18.8	17.7
91 7 17	10894160909.3	-1.0	22.7	342.6	3.5	8.7	-39.0	2.7	16.8
91 8 7	10894160846.2	-64.1	28.8	334.5	-4.6	8.6	-47.9	-6.3	19.4
91 9 5	10894160964.3	53.9	34.2	352.1	13.1	8.5	13.3	54.9	22.0
91 10 30	10894160873.0	-37.3	20.1	355.2	16.2	7.1	-33.8	7.8	15.0
91 11 13	10894160880.5	-29.8	16.9	359.3	20.2	6.8	-47.3	-5.6	14.2
91 12 12	10894160936.2	25.9	25.6	369.8	30.7	7.2	-44.3	-2.6	16.1

Table 7.436
Baseline summary for KAUAI -NOTO

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 7 10	11099796262.3	-4.1	20.1	270.0	-16.8	6.9	-106.1	3.1	15.8
89 9 11	11099796284.1	17.7	25.8	271.7	-15.0	8.1	-111.9	-2.8	22.0
91 3 14	11099796235.4	-31.0	43.6	368.1	81.3	11.8	-115.8	-6.6	31.7

Table 7.437
Baseline summary for KAUAI -ONSALA60

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 5 24	9792569598.6	-6.8	16.2	286.6	9.4	7.7	-91.9	-3.8	17.5
90 5 25	9792569613.1	7.6	17.1	265.7	-11.5	8.6	-83.8	4.3	18.6

Table 7.438
Baseline summary for KAUAI -PIETOWN

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 2 13	5040441455.0	4.3	3.9	237.5	-14.5	3.8	-146.8	21.8	9.0
91 3 15	5040441438.7	-12.0	3.0	238.7	-13.2	3.7	-161.3	7.2	7.4
91 5 22	5040441441.8	-8.9	3.6	250.5	-1.4	4.2	-140.7	27.9	9.0
91 6 29	5040441451.0	.3	3.1	248.0	-4.0	4.1	-198.4	-29.8	7.8
91 7 11	5040441455.8	5.1	2.9	252.1	.2	3.7	-176.6	-8.0	7.6
91 12 5	5040441457.0	6.3	2.4	286.1	34.2	3.9	-173.3	-4.7	6.5

Table 7.439
Baseline summary for KAUAI -SANTIA12

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 12 18	9834797886.0	20.2	40.4	1363.6	.0	12.0	-415.7	26.2	32.2
91 12 19	9834797853.1	-12.7	31.9	1363.7	.0	11.5	-458.7	-16.7	25.7

Table 7.440
Baseline summary for KAUAI -SEST

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 5 24	9740852566.9	3.1	31.6	-102.2	12.6	13.7	-296.2	-9.5	27.1
90 5 25	9740852559.7	-4.1	36.4	-133.4	-18.6	16.6	-273.7	13.0	31.8

Table 7.441

Baseline summary for KAUAI -SHANGHAI

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
86 6 14	7290813028.6	.0	63.8	121.8	.0	22.1	420.0	.0	165.6

Table 7.442

Baseline summary for KAUAI -WESTFORD

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 5 24	7676223201.4	-20.5	12.0	208.9	-71.6	6.8	-249.0	-8.4	18.8
90 5 25	7676223195.8	-26.1	12.8	190.4	-90.1	7.6	-225.2	15.5	19.8
90 9 12	7676223213.7	-8.3	9.7	222.6	-57.9	6.3	-222.4	18.2	18.1
90 9 21	7676223234.2	12.2	14.3	248.0	-32.5	7.9	-298.3	-57.7	26.3
90 9 26	7676223205.0	-17.0	16.1	232.9	-47.6	7.2	-241.1	-.5	21.8
91 2 13	7676223226.6	4.7	5.4	264.7	-15.8	4.8	-213.5	27.1	8.8
91 3 15	7676223207.0	-15.0	4.4	267.6	-12.9	4.8	-235.9	4.7	7.7
91 4 19	7676223211.7	-10.3	5.2	274.1	-6.4	5.5	-236.3	4.3	9.1
91 5 22	7676223220.9	-1.0	4.6	280.7	.2	5.0	-225.6	15.1	8.2
91 6 29	7676223206.7	-15.2	4.6	277.5	-3.0	5.2	-253.9	-13.3	8.4
91 7 11	7676223206.2	-15.8	4.3	283.1	2.6	4.8	-229.4	11.2	7.9
91 8 22	7676223237.1	15.1	6.1	295.5	14.9	5.2	-250.4	-9.7	10.2
91 9 7	7676223220.5	-1.5	5.8	278.5	-2.0	5.6	-209.2	31.4	9.7
91 10 16	7676223246.8	24.9	6.1	307.2	26.7	5.1	-198.5	42.2	9.7
91 10 17	7676223237.9	16.0	8.1	282.6	2.1	5.9	-268.6	-27.9	13.0
91 10 19	7676223245.6	23.7	6.4	334.2	53.7	5.7	-255.6	-14.9	10.6
91 10 21	7676223240.9	18.9	4.9	297.6	17.1	5.3	-235.6	5.0	8.8
91 10 23	7676223230.3	8.4	5.6	292.5	12.0	5.4	-245.0	-4.4	9.7
91 11 2	7676223222.1	.2	4.9	303.7	23.2	5.6	-276.9	-36.3	8.5
91 12 5	7676223223.7	1.7	3.6	310.9	30.4	5.1	-271.4	-30.8	7.3
91 12 18	7676223232.6	10.7	16.5	316.4	35.9	7.9	-234.4	6.2	21.6
91 12 19	7676223211.7	-10.3	15.9	330.1	49.6	8.0	-258.6	-18.0	23.4

Table 7.443

Baseline summary for KAUAI -WETTZEIL

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 2 13	10357464668.9	10.2	7.3	340.2	-8.2	6.5	-33.7	8.5	8.8
91 3 15	10357464647.2	-11.5	6.0	328.9	-19.5	6.4	-39.2	3.0	7.9
91 4 19	10357464657.8	-.9	6.7	334.1	-14.3	6.6	-50.2	-8.0	9.3
91 5 22	10357464668.4	9.7	6.7	338.7	-9.8	6.5	-48.0	-5.8	8.8
91 6 29	10357464649.8	-9.0	6.4	336.3	-12.2	6.5	-62.4	-20.3	9.1
91 7 11	10357464661.1	2.3	6.2	347.4	-1.1	6.4	-56.7	-14.5	8.5
91 8 22	10357464653.3	-5.4	7.9	356.1	7.6	6.6	-30.1	12.1	10.1
91 9 7	10357464685.0	26.2	7.8	334.1	-14.4	7.3	-42.4	-.3	9.9
91 10 16	10357464703.0	44.3	8.1	356.7	8.2	6.6	-25.4	16.7	9.3
91 10 17	10357464647.8	-10.9	11.3	324.0	-24.5	7.7	-37.0	5.2	11.6
91 10 19	10357464681.6	22.9	8.6	411.9	63.4	7.4	-29.9	12.2	10.3
91 10 21	10357464672.3	13.6	6.7	354.1	5.6	7.2	-17.8	24.3	8.6
91 10 23	10357464650.5	-8.3	7.7	342.9	-5.6	6.7	-39.7	2.4	9.5
91 11 2	10357464645.3	-13.4	6.1	350.9	2.4	7.1	-61.9	-19.7	8.8
91 12 5	10357464636.3	-22.5	5.0	363.1	14.6	7.0	-49.3	-7.1	7.8
91 12 18	10357464671.7	12.9	22.0	359.1	10.6	8.7	-31.6	10.6	18.6
91 12 19	10357464627.5	-31.2	22.3	369.4	20.9	8.9	-48.3	-6.2	18.7

Table 7.444

Baseline summary for KAUAI -WHYBORSE

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 8 11	4587139203.0	.0	17.9	148.3	.0	7.5	110.7	.0	47.6

Table 7.445

Baseline summary for KODIAK -WESTFORD

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 7 4	5466634648.5	-23.7	14.9	53.0	-9.6	6.6	-67.8	39.3	36.4
88 7 5	5466634663.4	-8.9	17.3	74.7	12.1	7.2	-180.4	-73.3	38.1
88 7 6	5466634669.7	-2.5	14.2	75.6	13.1	6.5	-62.7	44.4	33.8
89 7 6	5466634695.5	23.2	18.8	64.2	1.7	6.4	-72.4	34.7	40.4
89 7 8	5466634667.7	-4.6	17.7	67.1	4.6	6.3	-95.5	11.6	40.8
90 6 30	5466634678.9	6.6	16.3	50.6	-11.9	6.1	-145.6	-38.5	32.8
90 7 1	5466634679.4	7.2	15.3	56.9	-5.7	5.6	-122.8	-15.7	31.2
90 7 3	5466634685.9	13.7	18.1	63.1	.6	6.1	-99.1	8.0	36.8

Table 7.446

Baseline summary for KWAJAL26-SESHAN25

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 7 17	5191948417.0	15.5	12.8	51.0	-8.9	8.3	96.6	50.5	29.9
88 7 31	5191948377.8	-23.6	16.0	66.3	6.4	8.9	-8.3	-54.3	35.6
88 8 1	5191948400.4	-1.1	21.4	64.6	4.7	9.9	17.0	-29.1	46.2

Table 7.447

Baseline summary for LA-VLBA -MOJAVE12

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 5 22	964980739.0	-11.0	1.7	185.7	7.2	1.6	-392.0	26.8	6.3
91 6 29	964980757.0	6.9	1.7	172.8	-5.7	1.5	-423.8	-5.0	6.3
91 7 11	964980743.8	-6.2	1.6	182.3	3.8	1.4	-399.8	19.0	6.0
91 9 7	964980763.2	13.2	2.1	172.1	-6.4	1.9	-485.3	-66.5	8.0
91 10 16	964980753.7	3.7	1.8	178.9	.4	1.7	-435.7	-16.9	7.1
91 10 17	964980756.0	6.0	2.2	178.3	-.3	2.1	-415.5	3.3	8.7
91 10 19	964980750.0	.0	2.1	183.4	4.9	1.9	-414.3	4.5	8.6
91 10 21	964980749.3	-.7	1.5	175.2	-3.3	1.4	-427.0	-8.2	5.7
91 10 23	964980745.2	-4.8	1.7	181.3	2.8	1.6	-415.3	3.5	6.5
91 10 24	964980748.8	-1.2	2.2	176.2	-2.3	1.8	-435.6	-16.8	8.1
91 11 2	964980751.9	1.9	2.1	174.1	-4.4	1.9	-405.4	13.4	7.7
91 12 5	964980750.8	.8	1.2	179.1	.6	1.2	-410.3	8.5	4.6

Table 7.448

Baseline summary for LA-VLBA -PIETOWN

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 5 22	236640004.0	-2.5	1.9	-1081.0	7.2	1.8	-514.9	24.4	6.7
91 6 29	236640007.6	1.1	1.4	-1090.4	-2.3	1.3	-567.9	-28.7	4.7
91 7 11	236639999.8	-6.8	1.2	-1084.8	3.3	1.1	-543.3	-4.0	4.3
91 12 5	236640010.7	4.2	.9	-1090.9	-2.7	.9	-529.5	9.8	3.2

Table 7.449

Baseline summary for LA-VLBA -WESTFORD

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 5 22	3044179223.9	6.1	2.3	593.4	.6	2.2	-1033.9	28.7	6.0
91 6 29	3044179215.2	-2.7	2.4	599.7	6.9	2.2	-1053.6	9.0	6.0
91 7 11	3044179219.1	1.3	2.2	592.5	-.3	2.0	-1023.9	38.7	5.5
91 9 7	3044179204.0	-13.9	2.9	585.3	-7.5	2.4	-1086.2	-23.7	7.3
91 10 16	3044179210.0	-7.9	2.4	589.6	-3.2	2.2	-1057.9	4.6	6.4
91 10 17	3044179223.2	5.3	3.1	573.2	-19.6	2.6	-1073.2	-10.7	7.8
91 10 19	3044179215.3	-2.5	2.8	601.0	8.2	2.5	-1084.2	-21.6	7.2
91 10 21	3044179218.8	1.0	2.1	589.9	-2.9	2.1	-1085.8	-23.2	5.4
91 10 23	3044179225.6	7.8	2.4	595.0	2.2	2.2	-1076.2	-13.7	6.1
91 10 24	3044179219.4	1.6	2.8	599.3	6.5	2.4	-1076.0	-13.4	7.1
91 11 2	3044179221.3	3.5	2.9	599.8	7.0	2.5	-1061.5	1.1	7.5
91 12 5	3044179216.9	-1.0	1.7	592.7	-.1	1.9	-1062.0	.6	4.6

Table 7.450

Baseline summary for LA-VLBA -WETZELL									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 5 22	8161830114.1	10.4	4.4	1388.7	.4	4.7	-1314.6	12.6	8.9
91 6 29	8161830101.3	-2.4	4.3	1394.7	6.4	4.7	-1318.6	8.6	9.0
91 7 11	8161830114.0	10.3	4.1	1393.3	5.0	4.6	-1319.6	7.6	8.4
91 9 7	8161830082.5	-21.2	5.1	1381.7	-6.6	5.2	-1366.5	-39.3	9.9
91 10 16	8161830105.5	1.8	4.2	1377.4	-10.8	4.6	-1345.0	-17.8	8.6
91 10 17	8161830115.1	11.4	5.3	1358.9	-29.4	5.2	-1292.3	34.9	9.8
91 10 19	8161830102.1	-1.6	4.8	1421.0	32.7	5.2	-1353.7	-26.5	9.6
91 10 21	8161830095.5	-8.3	3.6	1395.1	6.8	5.0	-1328.0	-.7	8.2
91 10 23	8161830094.7	-9.0	4.2	1386.6	-1.6	4.6	-1324.9	2.3	8.6
91 10 24	8161830103.2	-.6	5.3	1393.8	5.5	5.0	-1352.8	-25.6	11.1
91 11 2	8161830116.5	12.8	4.9	1385.2	-3.1	5.2	-1314.7	12.5	9.4
91 12 5	8161830103.5	-.2	3.1	1382.2	-6.1	5.0	-1312.5	14.7	7.7

Table 7.451

Baseline summary for LEONARDOK-RICHMOND									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 8 25	1854619801.7	.0	6.5	5.1	.0	5.1	-6.8	.0	32.4

Table 7.452

Baseline summary for LEONARDOK-WESTFORD									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 8 25	2205062326.1	.0	6.5	14.1	.0	6.2	-44.9	.0	27.3

Table 7.453

Baseline summary for MAMMOTEL-VINDENBERG									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
84 10 23	373995470.1	23.8	10.3	-87.6	-46.4	7.5	156.3	119.2	68.3
86 10 23	373995441.6	-4.7	4.6	-35.2	6.0	2.7	14.2	-23.0	30.0

Table 7.454

Baseline summary for MARCUS -SESHAN25									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 6 26	3270841161.5	.0	7.5	-3.6	.0	5.8	105.9	.0	21.7

Table 7.455

Baseline summary for MARPOINT-MEDICINA									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 12 22	6721974429.7	.0	22.1	82.3	.0	9.8	-105.4	.0	38.6

Table 7.456

Baseline summary for MARPOINT-MOTO									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 7 19	7291183510.8	.0	15.8	74.3	.0	8.4	-181.8	.0	26.0

Table 7.457
Baseline summary for MARPOINT-NRA085 3

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 2 20	228306390.8	-1.5	26.6	-26.8	-30.5	23.7	-8.2	17.3	171.0
89 4 4	228306399.8	7.5	6.1	3.1	-.7	12.1	-11.3	14.2	50.2
89 5 31	228306389.6	-2.6	2.5	5.4	1.7	3.4	-18.8	6.6	17.4
89 6 1	228306374.8	-17.4	4.1	19.8	16.1	5.8	55.7	81.1	26.3
89 6 5	228306388.1	-4.2	7.1	-5.0	-8.8	6.7	19.5	45.0	26.8
89 6 28	228306401.7	9.5	3.0	12.0	8.3	4.9	-63.8	-38.4	20.0
89 7 19	228306383.3	-8.9	3.8	-11.1	-14.8	5.7	-78.0	-52.5	21.6
89 7 24	228306409.2	17.0	5.1	3.2	-.5	6.7	-89.5	-64.1	30.0
89 8 8	228306389.6	-2.7	3.1	11.8	8.1	4.6	-25.2	.2	19.6
89 8 18	228306396.1	3.9	3.8	5.5	1.7	5.6	-55.8	-30.3	20.8
89 8 25	228306399.4	7.2	5.0	-31.6	-35.3	7.1	79.8	105.2	27.3

Table 7.458
Baseline summary for MARPOINT-ONSALA60

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
82 6 19	6198441063.9	-1.1	12.3	102.9	2.7	5.5	-28.6	.7	28.8
82 6 20	6198441065.2	.2	14.0	95.7	-4.4	6.1	-.7	28.6	31.2
82 10 19	6198441068.6	3.5	20.5	104.5	4.4	10.2	-103.1	-73.8	49.2
83 8 30	6198441047.3	-17.7	89.0	79.8	-20.4	40.0	-17.3	12.0	235.9

Table 7.459
Baseline summary for MARPOINT-OVRO 130

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
82 6 19	3540824489.3	.8	8.3	-2.0	-15.0	7.6	4.9	8.4	32.6
82 6 20	3540824487.7	-.7	16.1	37.7	24.7	14.5	17.1	20.6	68.1
82 10 19	3540824487.2	-1.3	11.6	23.1	10.1	8.3	-28.0	-24.5	44.5

Table 7.460
Baseline summary for MATERA -MEDICINA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 5 25	597262308.4	7.0	3.3	8.2	9.7	8.7	-24.8	-1.3	12.5
90 9 6	597262313.2	11.8	1.9	-2.5	-1.1	1.8	53.1	76.6	8.3
90 12 21	597262299.9	-1.5	1.6	4.1	5.6	1.7	-18.8	4.7	7.1
91 9 9	597262302.2	.7	1.8	-.9	.5	2.0	-31.9	-8.4	8.6
91 12 2	597262295.2	-6.2	1.3	-6.2	-4.7	1.6	-55.3	-31.8	5.4

Table 7.461
Baseline summary for MATERA -MOJAVE12

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 10 22	9255718091.9	-17.1	13.0	64.3	-2.7	7.5	132.8	-11.3	16.1
91 11 26	9255718125.2	16.1	9.5	70.1	3.1	6.4	136.8	-7.3	13.3
91 12 17	9255718103.2	-5.9	8.6	65.9	-1.1	6.3	155.9	11.8	11.8

Table 7.462
Baseline summary for MATERA -MOTO

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 9 6	444532987.5	2.9	1.9	32.5	-1.7	1.8	25.7	76.7	8.9
90 12 21	444532980.3	-4.3	1.7	31.7	-2.5	1.6	-76.5	-25.4	7.6
91 3 14	444532965.6	-18.9	12.6	37.9	3.7	10.7	-49.3	1.7	46.5
91 9 9	444532986.5	1.9	1.5	37.5	3.3	1.5	-75.3	-24.2	6.8

Table 7.463
Baseline summary for MATERA -WRA085 3

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 10 5	7354567962.0	55.7	24.1	57.8	12.1	8.9	157.6	112.7	42.8
90 11 9	7354567883.2	-23.1	20.1	58.1	12.4	8.5	-29.1	-74.0	37.1
91 1 23	7354567882.3	-24.0	20.1	44.0	-1.6	8.8	21.6	-23.3	32.5
91 2 12	7354567899.1	-7.1	20.2	84.6	38.9	10.4	73.1	28.2	30.8
91 3 14	7354567883.4	-22.8	29.9	42.2	-3.5	8.1	91.2	46.3	52.0
91 4 3	7354567886.6	-19.7	19.7	54.1	8.4	7.4	155.6	110.7	30.5
91 5 8	7354567912.5	6.2	16.8	54.1	8.4	7.5	35.4	-9.5	27.2
91 6 12	7354567905.9	-4	16.6	50.7	5.1	6.8	75.1	30.2	23.4
91 7 17	7354567925.8	19.6	13.3	47.0	1.3	6.0	25.8	-19.1	20.1
91 8 7	7354567898.0	-8.2	20.3	40.2	-5.4	6.1	3.0	-41.9	29.0
91 9 5	7354567935.1	28.8	22.6	54.5	8.9	7.8	8.9	-36.0	33.7
91 10 30	7354567908.4	2.2	13.2	34.4	-11.2	6.5	24.2	-20.7	19.3
91 11 13	7354567906.8	.6	11.7	27.0	-18.6	5.3	36.9	-8.0	16.6
91 11 20	7354567877.2	-29.0	13.2	42.1	-3.6	6.9	39.3	-5.6	21.0
91 12 12	7354567933.9	27.6	16.8	42.9	-2.7	6.1	62.9	18.0	23.7

Table 7.464
Baseline summary for MATERA -ONSALA60

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 9 6	1886809349.3	12.7	2.6	12.9	5.0	2.7	72.8	84.8	9.5
90 12 21	1886809334.4	-2.1	2.4	7.9	.0	2.8	-9.1	2.9	8.8
91 1 7	1886809334.2	-2.4	2.3	10.2	2.4	2.7	-46.6	-34.6	8.1
91 9 9	1886809332.2	-4.4	2.1	1.4	-6.5	2.5	-33.3	-21.4	6.8

Table 7.465
Baseline summary for MATERA -RICHMOND

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 10 22	8088948171.2	-16.0	11.0	14.2	-8.8	6.8	20.9	-25.2	17.2
91 11 20	8088948182.9	-4.3	16.1	19.4	-3.5	7.5	54.9	8.8	21.9
91 11 26	8088948184.3	-2.9	8.9	34.9	12.0	6.3	61.4	15.2	13.9
91 12 17	8088948198.9	11.7	7.9	21.2	-1.7	5.7	44.1	-2.0	12.7

Table 7.466
Baseline summary for MATERA -WESTFORD

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 10 22	6647032661.4	-18.4	6.6	33.9	-1.5	5.9	45.1	-13.5	15.3
91 11 26	6647032698.0	18.1	6.3	38.8	3.5	5.4	55.6	-3.0	12.4
91 12 17	6647032678.5	-1.4	5.7	33.4	-1.9	5.0	69.0	10.4	11.6

Table 7.467
Baseline summary for MATERA -WETTZELL

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 5 25	990053387.0	8.8	3.8	8.2	11.7	12.6	-52.8	-28.0	12.2
90 9 6	990053390.6	12.4	2.0	-6.0	-2.5	1.9	67.8	92.5	8.3
90 12 21	990053382.6	4.4	1.8	.9	4.4	1.9	-10.2	14.5	7.5
91 1 7	990053381.2	3.0	1.8	3.2	6.7	1.8	-42.7	-18.0	7.2
91 9 9	990053380.1	1.9	1.5	-4.3	-8	1.6	-21.3	3.5	6.1
91 10 22	990053375.2	-3.0	3.0	-3.7	-2	2.6	-36.7	-12.0	11.3
91 11 20	990053374.1	-4.1	4.8	-4.0	-5	3.2	-34.3	-9.5	15.2
91 11 26	990053374.2	-4.0	2.3	-4.6	-1.1	2.1	-15.1	9.7	9.3
91 12 2	990053372.6	-5.6	1.1	-9.1	-5.6	1.6	-45.2	-20.5	4.2
91 12 17	990053372.7	-5.5	2.4	-2.4	1.1	2.4	-25.9	-1.1	9.4

Table 7.468

Baseline summary for MCD 7850-MOJAVE12

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 10 7	1305462983.6	.0	3.4	5.1	.0	2.8	43.1	.0	14.6

Table 7.469

Baseline summary for MCD 7850-PIETOWN

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 10 7	556665227.4	.0	2.7	-5	.0	2.0	25.8	.0	12.1

Table 7.470

Baseline summary for MCD 7850-WESTFORD

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 10 7	3137645303.0	.0	4.5	-6	.0	5.6	-76.9	.0	17.7

Table 7.471

Baseline summary for MEDICINA-NOTO

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 1 27	893724234.7	6.9	1.8	21.3	1.7	1.8	-17.1	21.6	6.8
90 9 6	893724230.9	3.2	1.7	14.4	-5.2	1.7	-29.1	9.7	7.7
90 12 21	893724223.0	-4.7	1.4	20.5	.9	1.5	-59.4	-20.6	6.1
91 9 9	893724224.7	-3.1	2.0	23.5	3.9	2.1	-45.1	-6.3	9.2

Table 7.472

Baseline summary for MEDICINA-RICHMOND

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 4 4	7658214991.4	48.7	231.5	76.0	8.3	27.9	253.6	155.8	310.2
87 5 4	7658214884.2	-58.4	25.0	85.2	17.5	7.4	121.1	23.3	35.6
87 12 10	7658214954.0	11.4	23.8	58.8	-8.9	7.5	59.7	-38.1	31.0
87 12 19	7658214926.3	-16.4	30.6	62.7	-5.0	25.1	71.5	-26.3	55.1
88 5 8	7658214989.5	46.9	26.5	74.0	6.4	7.6	124.3	26.5	43.3
88 5 13	7658214947.6	5.0	23.2	74.2	6.5	7.0	136.7	38.9	34.8
88 6 18	7658214940.5	-2.1	14.0	60.8	-6.9	7.7	88.9	-8.9	28.1
88 8 21	7658214963.1	20.5	11.5	65.4	-2.3	5.8	70.0	-27.8	20.7
88 9 1	7658214913.6	-29.0	18.8	78.3	10.6	9.2	142.6	44.8	36.6
88 10 30	7658214956.4	13.7	14.9	63.5	-4.2	6.8	99.9	2.1	23.4
88 11 10	7658214905.0	-37.7	13.8	57.7	-10.0	8.1	113.8	16.0	24.7
88 11 29	7658214939.0	-3.6	13.9	68.9	1.3	5.8	82.0	-15.8	21.4
88 12 15	7658214945.6	3.0	8.7	62.6	-5.1	5.3	112.5	14.7	15.8
88 12 22	7658215011.4	68.8	32.0	72.9	5.3	10.9	35.3	-62.5	46.1

Table 7.473

Baseline summary for MEDICINA-SESHAN25

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 5 9	8287102215.2	4.8	15.0	164.3	2.0	6.1	95.3	-12.7	20.1
91 10 8	8287102189.8	-20.7	31.0	148.7	-13.5	15.9	149.9	41.9	36.5

Table 7.474

Baseline summary for MEDICINA-WESTFORD											
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical				
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma		
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
87 4 4	6144872417.2	38.4	185.8	87.4	15.8	23.7	215.5	129.6	339.2		
87 5 4	6144872355.4	-23.3	17.9	88.1	16.6	5.6	52.1	-33.8	32.6		
87 12 9	6144872369.5	-9.2	6.3	77.5	5.9	4.6	88.0	2.2	17.8		
87 12 10	6144872367.4	-11.3	10.5	80.7	9.2	4.2	46.9	-39.0	20.9		
87 12 19	6144872371.0	-7.7	23.6	59.0	-12.6	24.1	46.9	-39.0	54.5		
88 5 8	6144872400.0	21.3	18.8	75.3	3.8	5.9	148.1	62.2	40.8		
88 5 13	6144872388.0	9.3	15.2	74.4	2.9	5.2	124.1	38.2	30.4		
88 5 18	6144872366.2	-12.5	28.4	75.5	4.0	8.6	11.0	-74.9	55.3		
88 6 18	6144872374.7	-4.0	7.2	76.0	4.4	4.6	71.4	-14.5	17.7		
88 8 6	6144872380.8	2.1	7.4	62.8	-8.8	4.3	80.0	-5.9	16.4		
88 8 21	6144872395.0	16.3	8.0	66.8	-4.8	4.8	70.1	-15.8	18.4		
88 9 1	6144872379.3	.6	6.6	72.7	1.2	4.9	76.2	-9.7	19.1		
88 10 30	6144872383.9	5.2	10.0	72.4	.8	5.4	79.8	-6.1	20.3		
88 11 10	6144872374.5	-4.2	6.9	65.4	-6.2	5.9	78.7	-7.2	15.9		
88 11 29	6144872381.4	2.7	7.6	70.6	-9	4.5	63.7	-22.2	16.4		
88 12 15	6144872382.3	3.6	4.7	61.0	-10.6	4.1	111.5	25.6	12.0		
89 2 3	6144872379.0	.3	13.7	61.1	-10.5	9.7	116.0	30.1	33.5		
89 2 18	6144872380.4	1.6	14.5	69.9	-1.7	9.5	211.2	125.3	33.1		
89 2 21	6144872375.9	-2.9	6.2	66.4	-5.1	4.8	90.8	4.9	15.1		

Table 7.475

Baseline summary for METSBOVI-MOJAVE12											
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical				
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma		
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
89 7 7	8149935249.4	-17.2	30.4	116.6	-1.3	8.2	106.5	-33.9	35.0		
89 7 12	8149935301.2	34.6	43.2	120.5	2.5	11.2	195.9	55.5	44.8		

Table 7.476

Baseline summary for METSBOVI-ONSALA60											
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical				
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma		
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
89 7 6	784441967.1	1.7	4.1	2.3	-8.4	4.0	2.9	1.8	24.3		
89 7 7	784441971.6	6.2	6.6	4.0	-6.8	7.1	-12.7	-13.7	40.8		
89 7 9	784441950.7	-14.7	5.6	15.5	4.7	5.9	-30.3	-31.3	31.6		
89 7 10	784441970.8	5.4	4.5	19.1	8.4	4.3	2.9	1.8	24.7		
89 7 12	784441961.4	-4.0	9.7	16.2	5.5	9.4	113.0	111.9	57.8		

Table 7.477

Baseline summary for METSBOVI-RICHMOND											
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical				
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma		
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
89 7 7	7758613749.1	-25.7	29.1	81.2	-.1	8.3	97.9	-22.2	39.8		
89 7 12	7758613823.3	48.5	40.0	81.3	.1	10.8	152.3	32.3	48.1		

Table 7.478

Baseline summary for METSBOVI-WESTFORD											
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical				
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma		
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
89 7 7	6059189127.6	-7.5	21.9	81.6	-3.3	7.4	50.9	-35.8	37.9		
89 7 12	6059189151.6	16.5	32.5	91.2	6.3	10.2	151.4	64.7	51.0		

Table 7.479

Baseline summary for METSHOVI-WETTZELL

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 7 6	1433414947.3	.4	5.4	12.0	-12.8	4.2	-1.6	4.2	24.5
89 7 7	1433414950.5	3.6	6.3	18.4	-6.4	6.7	-5.2	.7	38.6
89 7 9	1433414941.7	-5.2	6.9	23.4	-1.4	5.4	-70.7	-64.8	30.7
89 7 10	1433414948.0	1.2	5.4	40.5	15.7	4.3	3.7	9.6	23.6
89 7 12	1433414944.2	-2.7	9.1	29.0	4.2	9.2	141.6	147.5	57.9

Table 7.480

Baseline summary for MILESOM-MOJAVE12

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 4 16	1534074218.8	.0	8.1	11.4	.0	6.0	50.2	.0	42.7

Table 7.481

Baseline summary for MILESOM-WESTFORD

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 4 16	2722126743.4	.0	10.8	17.7	.0	9.3	-67.6	.0	48.4

Table 7.482

Baseline summary for MOJAVE12-ROBEY 6M

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 11 20	8216104521.8	-36.6	44.2	88.4	-10.2	15.1	129.3	26.1	53.6
90 1 24	8216104519.4	-39.0	28.1	91.8	-6.8	9.8	107.4	4.2	37.2
90 3 28	8216104520.1	-38.2	19.0	98.6	.0	7.7	150.0	46.8	23.3
90 7 21	8216104546.5	-11.8	51.3	103.8	5.2	16.1	145.7	42.5	63.4
90 8 12	8216104520.6	-37.7	45.9	99.2	.6	13.0	115.3	12.1	53.6
90 11 18	8216104632.3	73.9	22.1	118.4	19.7	10.0	9.2	-94.0	28.6
91 7 10	8216104602.3	43.9	31.3	85.5	-13.1	11.2	106.4	3.2	39.7

Table 7.483

Baseline summary for MOJAVE12-HOME

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 6 19	4471763803.3	13.9	15.4	22.5	-4.0	6.1	-10.8	-22.1	41.2
90 6 20	4471763777.1	-12.3	16.3	23.8	-2.6	6.3	10.9	-.4	43.2
90 6 21	4471763787.1	-2.3	13.6	31.7	5.2	5.5	29.1	17.8	36.6

Table 7.484

Baseline summary for MOJAVE12-WRAO 140

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 11 2	3262601940.3	-5.1	3.9	11.1	-4.0	3.1	-109.7	3.7	13.9
90 9 7	3262601933.4	-12.0	4.7	18.3	3.2	3.6	-96.6	16.7	14.9
91 10 26	3262601955.2	9.8	3.3	16.8	1.7	3.2	-128.4	-15.1	12.6

Table 7.485

Baseline summary for MOJAVE12-OCOTILLO

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
84 3 4	299368587.0	-51.7	31.2	14.2	-1.8	24.2	336.0	297.7	197.9
85 1 16	299368628.2	-10.5	8.6	28.9	12.9	5.4	157.3	119.1	65.9
85 3 5	299368644.2	5.4	5.3	11.5	-4.5	3.2	-28.7	-66.9	43.7

Table 7.486

Baseline summary for MOJAVE12-OVR 7853

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 11 2	245893864.5	.0	2.3	6.8	.0	1.7	-16.5	.0	9.4

Table 7.487

Baseline summary for MOJAVE12-PENTICTM

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 7 25	1566267826.9	13.0	9.8	11.4	-5.6	6.7	-86.9	-36.6	56.9
90 7 26	1566267819.3	5.5	7.7	21.1	4.1	5.2	-48.9	1.5	44.5
90 7 28	1566267799.4	-14.5	8.0	16.1	-.9	5.5	-25.3	25.1	48.8

Table 7.488

Baseline summary for MOJAVE12-SANTIA12

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 11 22	8253264764.0	.0	22.5	1565.9	.0	8.3	553.9	.0	32.5

Table 7.489

Baseline summary for MOJAVE12-SEATTLE1

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
86 8 28	1439349365.6	34.0	8.4	22.2	4.2	6.5	-6.1	-28.2	45.6
90 8 9	1439349310.6	-21.1	7.5	11.1	-7.0	5.1	102.0	79.9	42.4
90 8 10	1439349322.4	-9.2	9.0	24.1	6.1	6.0	-63.7	-85.9	52.7

Table 7.490

Baseline summary for MOJAVE12-SEST

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 4 19	7986720624.2	.0	16.0	-105.5	.0	9.1	-104.6	.0	27.2

Table 7.491

Baseline summary for MOJAVE12-SOURDOGE

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 8 21	3577769387.0	5.6	13.3	14.4	-5.7	5.7	32.1	7.3	44.9
87 8 22	3577769354.5	-27.0	12.1	23.9	3.8	4.8	87.2	62.5	39.2
88 7 28	3577769383.3	1.8	10.2	32.6	12.5	4.1	-6.5	-31.2	32.6
88 7 29	3577769409.4	28.0	12.1	26.8	6.8	4.7	-50.2	-75.0	36.9
88 7 30	3577769370.7	-10.8	12.4	33.8	13.8	4.9	1.6	-23.2	39.4
89 8 2	3577769385.3	3.9	8.9	3.5	-16.6	4.3	31.7	6.9	30.2
89 8 3	3577769390.6	9.1	8.4	12.8	-7.2	3.9	19.9	-4.8	27.8
89 8 4	3577769365.3	-16.2	9.9	15.6	-4.4	4.5	81.7	57.0	32.5

Table 7.492

Baseline summary for MOJAVE12-TROMSOWO

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 8 1	7344759272.0	.0	15.6	95.9	.0	7.2	-47.2	.0	26.3

Table 7.493

Baseline summary for MOJAVE12-VICTORIA										
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical			
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	
90 8 2	1545227662.9	-5.6	7.3	22.2	7.4	5.3	-22.3	10.0	44.7	
90 8 3	1545227661.8	-6.7	8.1	14.7	-1	5.9	-58.2	-25.9	50.3	
90 8 4	1545227682.6	14.1	8.3	6.8	-8.0	5.5	-18.2	14.1	51.9	

Table 7.494

Baseline summary for MOJAVE12-WHITEHORSE										
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical			
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	
88 8 4	3076518286.2	22.7	9.3	10.0	-5.2	4.5	-52.8	-47.9	32.8	
88 8 5	3076518274.5	11.0	8.9	9.2	-6.0	4.4	-70.7	-65.8	31.1	
88 8 6	3076518274.4	10.9	9.7	13.5	-1.7	4.2	-49.6	-44.7	33.6	
89 8 9	3076518241.8	-21.7	7.1	17.7	2.5	3.8	82.1	87.0	28.9	
89 8 10	3076518257.2	-6.3	8.3	24.4	9.3	4.4	43.4	48.4	31.7	

Table 7.495

Baseline summary for MOJAVE12-YLOW7296										
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical			
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	
91 7 1	2995740032.7	7.5	3.6	-1874.9	-4.1	3.1	257.5	12.6	12.9	
91 7 13	2995740023.6	-1.6	6.8	-1871.4	-6	5.3	249.7	4.8	21.5	
91 7 14	2995740021.4	-3.7	6.4	-1870.5	.3	5.2	269.9	25.0	21.6	
91 7 18	2995740032.1	6.9	5.9	-1869.6	1.2	4.4	244.4	-5	19.1	
91 7 19	2995740012.9	-12.3	4.8	-1871.0	-2	4.1	253.4	8.6	16.2	
91 7 23	2995740013.3	-11.9	5.8	-1880.4	-9.6	4.6	271.7	26.8	19.3	
91 7 24	2995740029.3	4.1	5.4	-1874.4	-3.6	4.6	237.9	-7.0	17.4	
91 8 4	2995740026.1	.9	3.3	-1861.1	9.7	3.1	218.0	-26.9	11.1	

Table 7.496

Baseline summary for MOJ 7288-MOJAVE12										
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical			
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	
87 11 2	358196.9	.0	1.7	.5	.0	2.4	.6	.0	15.0	

Table 7.497

Baseline summary for MOJ 7288-OVRO 130										
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical			
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	
87 11 2	245135040.7	.0	2.7	4.4	.0	2.2	-12.5	.0	16.2	

Table 7.498

Baseline summary for MOJ 7288-OVR 7853										
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical			
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	
87 11 2	245751411.2	.0	2.9	4.4	.0	2.3	-15.8	.0	16.3	

Table 7.499

Baseline summary for MON PEAK-WESTFORD										
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical			
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	
90 11 11	3985679563.8	9.5	13.7	100.8	-3.3	7.3	-203.0	1.0	43.5	
90 11 12	3985679545.0	-9.3	13.6	107.1	3.1	7.1	-204.9	-9	43.1	

Table 7.500

			Baseline summary for NOME -SNDPOINT								
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical				
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma		
84 7 15	1060002841.6	-29.7	31.0	-35.4	-33.1	26.5	142.8	115.8	180.2		
85 7 26	1060002871.2	-1	8.4	-9.0	-6.7	5.2	-56.0	-83.0	53.6		
86 8 1	1060002873.5	2.2	8.2	3.8	6.2	4.6	101.8	74.7	54.3		

Table 7.501

			Baseline summary for NOME -WESTFORD								
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical				
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma		
90 6 19	5785551166.2	24.9	19.5	42.9	-7	6.8	-108.1	-1.2	39.0		
90 6 20	5785551131.3	-9.9	20.7	42.4	-1.2	6.7	-110.5	-3.6	40.9		
90 6 21	5785551128.4	-12.9	17.4	45.1	1.5	6.0	-103.4	3.5	34.6		

Table 7.502

			Baseline summary for NOTO -NRAO85 3								
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical				
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma		
89 7 10	7446887079.9	-12.5	11.0	56.3	4.5	6.3	119.0	.8	17.6		
89 7 19	7446887113.3	20.9	14.2	58.6	6.8	8.1	113.7	-4.5	23.7		
89 9 11	7446887094.2	1.8	15.1	52.1	.3	8.6	114.1	-4.1	24.9		
91 3 14	7446887077.3	-15.1	42.7	15.1	-36.7	12.9	158.5	40.3	57.6		

Table 7.503

			Baseline summary for NRAO85 3-WETTZEIL								
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical				
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma		
91 11 20	6725781929.3	.0	11.4	63.5	.0	6.2	-56.2	.0	20.6		

Table 7.504

			Baseline summary for NRAO 140-NRAO85 3								
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical				
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma		
91 10 26	1128931.4	.0	1.8	12.3	.0	1.5	-27.6	.0	7.7		

Table 7.505

			Baseline summary for NRAO 140-ONSALAGO								
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical				
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma		
81 11 19	6319317552.5	3.0	27.8	158.1	53.9	184.7	-155.2	-134.0	94.5		
81 11 20	6319317552.0	2.5	10.6	105.2	1.0	7.1	56.6	77.8	35.5		
82 12 16	6319317591.9	42.4	20.7	104.6	.5	17.4	-138.3	-117.1	61.5		
82 12 17	6319317506.9	-42.6	18.4	100.4	-3.7	12.5	-60.0	-38.8	49.5		

Table 7.506

			Baseline summary for NRAO 140-RICHMOND								
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical				
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma		
91 10 26	1420105749.2	.0	2.9	-6.2	.0	2.0	28.1	.0	11.8		

Table 7.507

			Baseline summary for OCOTILLO-OVERO 130								
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical				
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma		
85 3 5	542313250.0	.0	7.2	19.4	.0	4.3	-32.0	.0	55.2		

Table 7.508

Baseline summary for OCOTILLO-PVERDES

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
85 3 5	264927266.1	.0	5.7	-36.6	.0	6.4	-17.2	.0	63.5

Table 7.509

Baseline summary for OCOTILLO-VDRBERG

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
84 3 4	487851076.7	-28.4	33.8	-100.0	-44.0	37.8	-373.5	-401.4	265.5
85 1 16	487851082.8	-22.2	10.1	-35.3	20.7	8.1	-101.7	-129.6	70.0
85 3 5	487851114.1	9.0	6.1	-62.2	-6.2	4.6	91.8	63.9	44.6

Table 7.510

Baseline summary for ONSALAGO-ROBLED32

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
83 5 6	2204783302.9	.0	11.7	62.7	.0	10.2	72.5	.0	54.6

Table 7.511

Baseline summary for ONSALAGO-SEST

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
90 4 19	10459732569.9	6.5	24.2	-2.7	-13.6	12.6	19.2	6.8	23.0
90 5 24	10459732565.6	2.2	33.1	11.5	.6	11.9	19.1	6.7	25.2
90 5 25	10459732544.4	-19.0	38.1	27.7	16.8	14.3	-7.0	-19.4	28.8

Table 7.512

Baseline summary for ONSALAGO-TROMSONO

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
89 7 31	1406156786.0	16.8	5.7	21.0	-1.5	5.6	28.7	-18.3	26.9
89 8 1	1406156767.8	-1.3	6.2	31.3	8.8	4.5	80.7	33.6	25.7
89 8 2	1406156751.1	-18.1	5.5	21.2	-1.3	4.1	29.6	-17.5	24.3
89 8 3	1406156773.2	4.0	5.5	16.4	-6.1	4.5	49.7	2.6	25.2

Table 7.513

Baseline summary for OVRO 130-PVERDES

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
83 11 13	387094608.6	41.5	21.5	-78.3	-19.2	8.7	4.4	-10.7	112.5
85 3 5	387094562.2	-4.8	7.3	-54.5	4.6	4.2	18.4	3.3	62.7

Table 7.514

Baseline summary for OVRO 130-SANPAULA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
83 9 1	322080185.4	.0	11.8	-105.6	.0	7.9	67.4	.0	77.0

Table 7.515

Baseline summary for OVR 7853-OVRO 130

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
87 11 2	991122.2	.0	1.6	-.3	.0	2.4	3.3	.0	12.1

Table 7.516

Baseline summary for PELOSSOM-SANPAULA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 2 9	99880794.2	.0	7.1	-1.5	.0	10.6	-37.3	.0	68.9

Table 7.517

Baseline summary for PERTICTON-WESTFORD

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 7 25	3684967809.4	23.5	19.3	27.9	7.0	7.2	-108.1	-37.3	54.5
90 7 26	3684967790.8	4.8	14.9	19.0	-2.0	5.8	-56.9	13.9	41.6
90 7 28	3684967763.3	-22.6	16.4	18.1	-2.8	6.2	-61.4	9.4	45.6

Table 7.518

Baseline summary for PERTICTON-YELLOWKN

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
84 8 25	1495292882.9	-3.7	13.9	-15.3	-12.9	5.9	42.9	26.3	83.4
85 9 5	1495292888.5	1.8	9.6	4.4	6.8	4.3	5.6	-11.0	53.9

Table 7.519

Baseline summary for PIETOWN-WETTIZELL

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 1 31	8339267316.4	2.4	6.8	68.4	6.4	5.7	-122.5	23.0	13.1
91 2 13	8339267302.7	-11.3	5.1	70.1	8.1	4.9	-137.7	7.8	8.8
91 3 15	8339267302.9	-11.0	4.1	66.7	4.7	4.7	-134.3	11.2	8.0
91 5 22	8339267306.8	-7.1	5.5	61.7	-3	4.9	-168.0	-22.5	9.6
91 6 29	8339267332.0	18.1	4.4	59.0	-3.0	4.8	-134.8	10.7	9.1
91 7 11	8339267322.2	8.3	4.1	61.6	-4	4.6	-148.9	-3.4	8.4
91 12 5	8339267311.9	-2.1	3.3	46.8	-15.2	5.0	-160.3	-14.8	7.8

Table 7.520

Baseline summary for PINFLATS-PVERDES

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 3 26	180972816.0	-2.7	5.5	1.8	4.6	7.5	22.3	10.1	44.2
87 12 9	180972823.3	4.6	4.7	-5.8	-3.0	7.0	-28.5	-40.7	42.9
88 2 6	180972815.1	-3.5	5.4	-4.0	-1.3	7.8	59.1	46.9	52.5

Table 7.521

Baseline summary for PLATTVIL-VERNAL

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
86 3 31	412425202.6	.0	4.0	-7.3	.0	5.7	101.6	.0	39.1

Table 7.522

Baseline summary for PRESIDIO-PT REYES

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
83 8 28	53727229.6	-3.7	12.2	-27.4	-12.6	9.3	153.8	178.8	88.4
85 3 14	53727233.6	.2	9.4	-3.6	11.2	10.0	-81.5	-56.4	95.7
85 10 20	53727233.7	.4	4.3	-14.0	.8	4.9	-54.1	-29.0	41.6

Table 7.523

yy mm dd	Baseline summary for PRESIDIO-WESTFORD								
	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 10 21	4224409686.9	8.7	21.2	55.3	-19.6	11.2	-151.3	23.1	57.8
89 10 24	4224409682.6	4.4	13.8	57.5	-17.4	5.9	-137.8	36.6	36.4
89 11 17	4224409629.8	-48.4	19.6	40.1	-34.8	8.5	-299.0	-124.6	52.7
89 11 18	4224409681.9	3.7	17.8	61.2	-13.7	7.3	-92.7	81.8	48.0
91 7 18	4224409669.9	-8.3	10.1	92.0	17.1	4.6	-186.3	-11.8	27.3
91 7 19	4224409694.3	16.1	10.3	88.4	13.5	4.8	-181.2	-6.7	27.1

Table 7.524

yy mm dd	Baseline summary for PRESIDIO-YLOW7296								
	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 7 18	2775924623.2	-6	8.1	-1710.3	-1.9	5.3	93.2	-33.5	31.6
91 7 19	2775924624.3	.5	7.8	-1706.5	1.9	5.2	157.4	30.7	30.2

Table 7.525

yy mm dd	Baseline summary for PRESIDIO-YUMA								
	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 2 7	922582257.6	.0	6.5	-11.8	.0	5.2	55.3	.0	41.3

Table 7.526

yy mm dd	Baseline summary for PT REYES-WESTFORD								
	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 11 7	4248545118.4	-6.5	18.5	80.3	-30.7	7.3	-72.4	20.6	49.6
89 11 8	4248545078.5	-46.4	15.6	96.2	-14.8	6.1	-131.3	-38.3	42.3
89 11 12	4248545105.1	-19.8	17.2	76.9	-34.1	6.9	-158.6	-65.6	47.9
89 11 13	4248545108.1	-16.8	17.2	83.9	-27.1	6.7	-121.6	-28.6	46.3
91 7 13	4248545156.0	31.1	10.5	135.8	24.8	4.7	-83.5	9.5	28.8
91 7 14	4248545132.9	8.0	12.4	145.1	34.1	5.4	-45.8	47.2	33.0

Table 7.527

yy mm dd	Baseline summary for PT REYES-YLOW7296								
	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 7 13	2750483267.5	7.3	8.8	-1674.8	2.4	5.9	267.9	1.9	34.0
91 7 14	2750483252.0	-8.2	9.3	-1680.0	-2.8	6.3	263.6	-2.3	37.4

Table 7.528

yy mm dd	Baseline summary for PT REYES-YUMA								
	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
87 10 25	975980359.5	.0	9.7	-2.0	.0	7.9	-68.1	.0	53.8

Table 7.529

yy mm dd	Baseline summary for QUINCY -WESTFORD								
	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 11 2	4023819283.6	6.1	14.1	35.2	4.1	6.1	-87.4	27.5	40.4
89 11 3	4023819269.4	-8.1	16.1	25.4	-5.7	7.2	-148.9	-34.1	45.0

Table 7.530

Baseline summary for RICHMOND-TROMSOBO									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
89 8 1	7249939443.2	.0	16.5	65.2	.0	6.8	-46.2	.0	26.9

Table 7.531

Baseline summary for RICHMOND-YLOW7296									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
91 8 4	4696400712.9	.0	5.1	-1463.5	.0	3.7	833.3	.0	12.3

Table 7.532

Baseline summary for ROLED32-WESTFORD									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
83 5 6	5300462984.7	.0	27.5	94.1	.0	7.9	52.9	.0	60.1

Table 7.533

Baseline summary for SANTI12-SESHAN25									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
91 12 18	12693859212.0	7.3	58.3	793.8	-8.3	15.7	1386.3	14.3	13.0
91 12 19	12693859195.9	-8.7	63.4	810.8	8.7	16.1	1355.6	-16.5	13.9

Table 7.534

Baseline summary for SANTI12-WESTFORD									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
91 11 22	7791503447.8	15.2	20.4	1215.2	3.6	8.0	-1293.5	30.7	32.2
91 12 18	7791503430.6	-2.0	28.3	1199.8	-11.8	9.2	-1345.0	-20.7	40.9
91 12 19	7791503417.9	-14.7	20.8	1216.8	5.2	7.9	-1340.1	-15.9	30.4

Table 7.535

Baseline summary for SANTI12-WETTZEEL									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
91 11 22	10460704387.8	31.4	29.8	157.6	11.9	12.9	-1863.4	24.8	23.5
91 12 18	10460704339.8	-16.6	39.9	136.4	-9.3	12.1	-1904.0	-15.8	30.5
91 12 19	10460704335.1	-21.3	29.2	144.9	-.8	10.8	-1903.6	-15.4	23.4

Table 7.536

Baseline summary for SEATTLE1-WESTFORD									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
86 8 28	3895645967.1	20.0	14.1	55.6	39.3	14.1	-12.5	127.8	56.6
90 8 9	3895645928.1	-19.1	13.3	9.1	-7.3	6.4	-274.1	-133.7	41.9
90 8 10	3895645949.0	1.9	16.2	15.4	-1.0	7.5	-45.6	94.7	51.0

Table 7.537

Baseline summary for SESHAN25-WESTFORD									
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
91 12 18	10157033700.3	7.5	32.5	131.5	20.9	10.1	-181.7	-6.6	27.1
91 12 19	10157033678.1	-14.8	45.8	82.6	-27.9	11.7	-163.4	11.7	36.1

Table 7.538

Baseline summary for SESHAN25-WETTZELL

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 4 4	8003555617.5	-6.0	28.6	136.9	-7.0	10.8	-110.0	16.7	45.4
90 5 9	8003555649.1	25.6	14.1	155.2	11.3	6.0	-97.7	29.0	19.5
91 4 16	8003555612.7	-10.8	16.3	158.1	14.2	8.8	-71.7	55.0	23.5
91 7 19	8003555609.0	-14.5	16.4	162.2	18.3	8.1	-183.9	-57.2	21.5
91 12 18	8003555610.2	-13.3	25.9	124.9	-19.0	9.7	-166.2	-39.5	33.6
91 12 19	8003555614.5	-9.1	36.1	84.2	-59.7	10.7	-181.4	-54.7	45.5

Table 7.539

Baseline summary for SEST -WESTFORD

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 4 19	7447845586.4	-.3	12.6	-72.1	-1.6	8.7	48.6	1.5	26.9
90 5 24	7447845601.5	14.8	24.4	-65.6	4.9	10.9	35.1	-12.0	32.3
90 5 25	7447845568.8	-17.9	28.0	-73.6	-3.1	12.8	60.4	13.3	37.4

Table 7.540

Baseline summary for SINTOTU -USUDA64

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 7 31	872851759.3	.0	8.6	22.7	.0	5.8	36.9	.0	31.2

Table 7.541

Baseline summary for SMDPOINT-VNDRBERG

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
84 7 15	3763664148.8	86.0	51.2	110.0	60.5	37.8	-72.2	-18.8	196.5
85 7 26	3763664088.6	25.7	14.4	51.7	2.1	5.3	28.3	81.7	46.4
86 8 1	3763664026.9	-36.0	15.2	46.0	-3.5	5.4	-139.9	-86.5	48.1

Table 7.542

Baseline summary for SMDPOINT-WESTFORD

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 7 13	5963589384.2	5.1	18.1	61.1	1.3	8.2	-23.6	85.2	37.7
88 7 14	5963589384.2	5.1	18.9	63.7	3.9	8.1	15.2	124.0	38.2
89 7 14	5963589342.6	-36.4	16.5	64.0	4.2	6.6	-140.0	-31.2	33.2
89 7 15	5963589385.6	6.5	15.6	57.4	-2.4	5.6	-84.6	24.2	31.1
89 7 16	5963589404.9	25.9	17.1	65.2	5.4	5.9	-68.2	40.6	34.1
90 7 10	5963589358.2	-20.9	20.8	58.5	-1.3	7.3	-188.7	-79.9	38.7
90 7 11	5963589385.7	6.6	17.3	55.6	-4.2	6.6	-167.6	-58.8	32.3
90 7 13	5963589384.6	5.6	19.3	52.6	-7.2	7.4	-193.7	-84.9	35.6

Table 7.543

Baseline summary for SOURDOGH-WESTFORD

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 7 28	4992696139.6	-10.9	13.8	57.5	12.3	5.5	-71.2	13.3	34.1
88 7 29	4992696166.7	16.2	16.7	48.7	3.4	6.9	7.5	91.9	41.4
88 7 30	4992696126.0	-24.4	16.2	55.3	10.1	6.3	-49.4	35.1	39.3
89 8 2	4992696149.3	-1.1	12.0	36.8	-8.4	5.0	-84.8	-.3	29.8
89 8 3	4992696163.2	12.8	11.3	45.3	.0	4.7	-91.7	-7.2	28.1
89 8 4	4992696150.5	.0	13.1	33.6	-11.6	5.4	-166.9	-82.4	32.4

Table 7.544

Baseline summary for SCORDOGH-WHITEHORSE										
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical			
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	
84 8 8	591316596.0	17.0	17.5	29.8	45.0	14.2	28.2	-17.1	142.3	
86 8 19	591316580.7	1.6	5.5	-14.1	1.1	5.1	72.8	27.5	46.9	
86 8 21	591316574.9	-4.2	6.2	-21.8	-6.6	5.0	13.8	-31.6	52.0	

Table 7.545

Baseline summary for TROMSONO-WESTFORD										
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical			
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	
89 8 1	5474070358.4	.0	11.3	77.2	.0	5.8	1.0	.0	25.4	

Table 7.546

Baseline summary for TROMSONO-WETTZELE										
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical			
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	
89 7 31	2296324610.5	20.9	7.1	41.8	6.8	7.0	-41.7	4.9	27.2	
89 8 1	2296324580.2	-9.3	7.2	36.8	1.8	4.9	-58.8	-12.3	25.4	
89 8 2	2296324570.4	-19.1	7.1	30.9	-4.0	4.7	-29.5	17.0	24.3	
89 8 3	2296324596.7	7.1	6.9	34.2	-.8	5.0	-57.1	-10.6	25.3	

Table 7.547

Baseline summary for TRYSILMO-WESTFORD										
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical			
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	
91 11 9	5480563557.5	21.6	12.6	232.3	4.7	5.8	356.1	23.4	27.2	
91 11 16	5480563545.3	9.4	8.2	226.9	-.7	4.5	346.8	14.2	19.1	
91 12 10	5480563533.9	-2.0	10.5	231.8	4.2	4.9	315.0	-17.6	24.3	
91 12 15	5480563534.7	-1.1	7.6	220.1	-7.5	4.5	325.8	-6.9	18.0	
91 12 21	5480563532.3	-3.6	9.4	230.7	3.1	4.8	322.9	-9.8	22.0	
91 12 31	5480563502.7	-33.2	12.9	225.9	-1.7	7.0	333.3	.6	31.2	

Table 7.548

Baseline summary for TRYSILMO-WETTZELE										
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical			
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	
91 11 9	1364743198.3	4.6	4.6	-114.4	1.3	3.3	316.3	1.0	27.0	
91 11 16	1364743194.6	1.0	3.1	-116.9	-1.2	2.2	333.9	18.6	17.8	
91 12 10	1364743192.7	-1.0	4.1	-117.8	-2.2	2.9	318.8	3.5	23.8	
91 12 15	1364743194.2	.6	2.8	-115.2	.5	2.0	313.1	-2.2	16.6	
91 12 21	1364743188.8	-4.8	3.8	-113.6	2.0	2.8	289.8	-25.5	21.0	

Table 7.549

Baseline summary for VERNAL -VINDBERG										
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical			
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	
88 10 21	1165722334.2	.0	4.7	37.4	.0	5.6	27.8	.0	22.3	

Table 7.550

Baseline summary for VERNAL -WESTFORD										
yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical			
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	
89 4 26	3132148589.4	-2.2	10.5	6.4	6.3	8.1	-105.9	-10.8	34.2	
89 4 27	3132148573.0	-18.5	10.9	1.4	1.4	5.8	-107.8	-12.6	33.2	
90 10 22	3132148598.7	7.1	10.0	4.9	4.8	6.3	-78.7	16.4	36.7	
90 10 23	3132148609.9	18.4	13.4	-11.1	-11.2	6.6	-75.9	19.3	47.7	

Table 7.551

Baseline summary for VERNAL -YUMA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 10 21	917552145.3	.0	5.7	.6	.0	5.1	2.4	.0	29.6

Table 7.552

Baseline summary for VICTORIA-WESTFORD

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
90 8 2	3967716613.6	-5.9	14.4	6.6	-5.9	5.8	-113.9	-24.6	41.7
90 8 3	3967716620.1	.6	16.2	10.8	-1.7	6.6	-66.6	22.6	47.8
90 8 4	3967716627.3	7.8	17.2	21.4	8.9	6.4	-79.0	10.3	49.2

Table 7.553

Baseline summary for VMDNBERG-WESTFORD

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
89 10 21	4228947348.5	7.2	10.2	87.0	-13.8	7.8	-115.1	-4.7	27.4
89 10 24	4228947360.1	18.8	8.6	84.7	-16.1	4.6	-65.0	45.5	22.7
89 11 2	4228947336.8	-4.6	9.6	84.9	-16.0	5.2	-112.1	-1.7	25.5
89 11 3	4228947332.2	-9.1	9.8	86.2	-14.7	6.0	-136.0	-25.5	25.8
89 11 7	4228947351.1	9.8	9.5	82.6	-18.2	5.4	-58.4	52.1	26.6
89 11 8	4228947311.6	-29.7	7.4	95.6	-5.2	4.3	-118.7	-8.2	20.5
89 11 12	4228947348.6	7.2	8.6	83.9	-16.9	4.9	-133.3	-22.9	24.1
89 11 13	4228947341.2	-.1	8.9	89.7	-11.2	4.4	-99.9	10.6	24.4
89 11 17	4228947330.3	-11.1	11.0	84.5	-16.3	6.0	-138.4	-27.9	30.5
89 11 18	4228947335.8	-5.5	8.4	95.0	-5.8	5.1	-78.3	32.2	24.0
91 7 28	4228947361.8	20.4	9.2	151.0	50.2	4.6	-151.8	-41.4	25.2
91 7 29	4228947350.1	8.7	10.2	157.5	56.7	4.8	-135.4	-25.0	27.2

Table 7.554

Baseline summary for VMDNBERG-WHTHORSE

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
84 8 8	3058395753.5	130.8	39.9	-13.6	-33.0	19.2	-35.7	-70.4	132.6
86 8 19	3058395611.2	-11.5	11.6	21.6	2.2	4.8	85.5	50.9	40.1
86 8 21	3058395623.2	.5	12.9	19.2	-.2	5.1	-23.4	-58.1	45.9

Table 7.555

Baseline summary for WESTFORD-WHTHORSE

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 8 4	4511164165.3	30.5	13.1	45.9	5.4	5.9	32.2	-52.1	34.4
88 8 5	4511164142.8	8.0	11.9	27.8	-12.7	5.6	-26.9	-111.2	33.0
89 8 9	4511164112.5	-22.3	10.6	40.7	.2	4.2	183.6	99.3	28.3
89 8 10	4511164129.4	-5.5	12.3	45.6	5.1	4.8	106.1	21.8	31.0

Table 7.556

Baseline summary for WESTFORD-YAKATAGA

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
88 7 22	4895738307.7	-39.6	14.6	73.3	-24.1	6.6	61.6	36.3	37.0
88 7 24	4895738329.0	-18.2	14.3	83.3	-14.0	6.1	19.0	-6.3	36.1
89 7 25	4895738363.7	16.4	11.4	101.3	3.9	4.5	-2.0	-27.2	28.9
89 7 26	4895738345.9	-1.3	13.4	93.6	-3.8	4.9	23.2	-2.0	33.2
90 6 9	4895738421.9	74.7	26.3	109.0	11.7	7.9	-110.1	-135.3	65.1
90 6 10	4895738356.9	9.6	18.2	115.4	18.1	7.0	102.2	77.0	43.0
90 6 11	4895738352.9	5.6	17.0	111.5	14.1	6.5	30.1	4.9	40.7

Table 7.557

Baseline summary for WESTFORD-YLOW7296

yy mm dd	Baseline Length			Baseline Transverse			Baseline Vertical		
	Value	Residual	Sigma	Value	Residual	Sigma	Value	Residual	Sigma
	mm	mm	mm	mm	mm	mm	mm	mm	mm
91 7 1	3506849219.6	2.4	3.8	-797.6	1.7	3.2	915.7	-4.4	11.6
91 7 13	3506849229.6	12.4	8.1	-799.1	.2	5.0	948.3	28.3	21.0
91 7 14	3506849221.7	4.5	8.0	-802.2	-2.9	4.9	907.4	-12.7	20.8
91 7 18	3506849217.7	.5	7.1	-803.2	-3.9	4.0	884.3	-35.7	18.9
91 7 19	3506849213.8	-3.4	6.0	-807.5	-8.2	3.7	942.4	22.3	15.2
91 7 23	3506849221.3	4.0	7.1	-809.1	-9.8	4.8	944.1	24.1	18.5
91 7 24	3506849223.3	6.1	6.4	-792.3	7.0	4.9	944.2	24.2	17.5
91 8 4	3506849209.5	-7.7	3.7	-790.2	9.1	3.1	903.1	-16.9	10.7

8.0 Site Coordinates by Session from GLB868

Table 8.0 gives the *a priori* positions of the sites used to define the origin for each session.

Table 8.1 presents, for each station and mobile site, the geocentric, Cartesian site positions in individual sessions in the VLBI reference frame. The user is reminded that the position at a particular epoch is relative to the (arbitrary) reference station for that session and that different observing sessions having unrelated observing networks will have different reference stations. Ninety four of the 95 fixed stations and mobile sites appearing in Tables 1.1 and 1.2 are tabulated. HAYSTACK does not appear as it is always the reference station in each session in which it participates.

Table 8.2 presents, for each session, the geocentric, Cartesian components for each fixed station or mobile site, their $1-\sigma$ standard statistical errors (unscaled), their adjustments, their total adjusted value, and their correlations in lower triangular form. These tables are only available in the machine-readable version.



9.0 Earth Rotation and Nutation from GLB867

Plots 9.1 through 9.4 show the pole in arcseconds over the periods 1979 through 1983, 1984 through 1986, 1987 through 1990, and 1991 respectively. One- σ standard statistical errors of the pole components are of the order of 100 to 300 milliarcseconds. Error bars have been omitted from the plot for clarity. Plot 9.5 shows the variation in the value of UT1 - TAI in seconds of time, with a linear term removed, for the period from 1979 to 1991, inclusive. This term was determined by least squares to be a slope of approximately -572 ms/yr. Formal errors of the points are of the order of 30 to 300 μ s. Once again, error bars have been omitted for clarity.

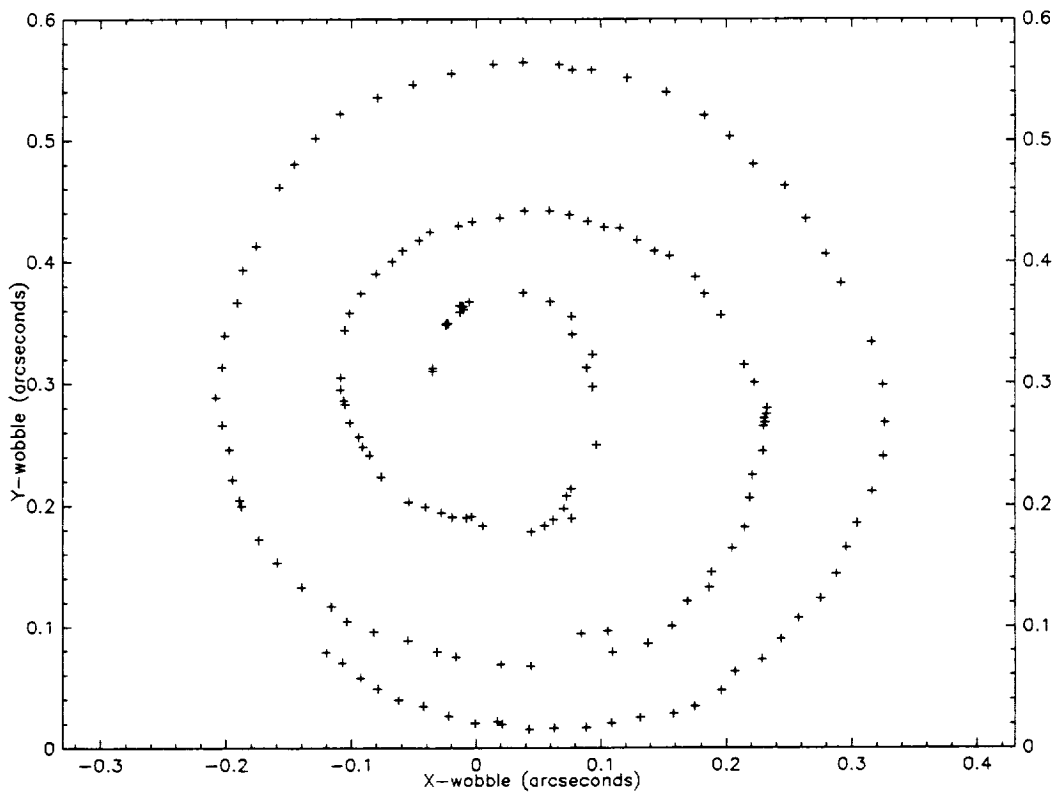
Plot 9.6 shows the nutation offsets $\Delta\epsilon$ and $(\sin\epsilon)*\Delta\psi$ from the 1980 IAU nutation series, estimated in solution GLB867 for the period 1979 to 1991, inclusive. The longitude values have been multiplied by the sine of the obliquity of the ecliptic for plotting only. The values of the longitude and obliquity are in units of arcseconds with 1- σ standard statistical errors of the order of 0.8 to 3 milliarcseconds in longitude and 0.3 to 1.3 milliarcseconds in obliquity. As with the Earth orientation parameters, error bars have been omitted for clarity.

Numerous sessions, typically mobile sessions and single baseline sessions, are unsuitable for the determination of Earth orientation and nutation parameters. Results from these sessions, which have very large uncertainties in one or more component, are not plotted even though the sessions were actually included in solution GLB867. The single baseline POLARIS sessions however, were retained as omitting these would leave a large gap in the early VLBI results. The pole position, UT1 - TAI, and nutation plots include all other relevant data (fixed station CDP, POLARIS, IRIS, and NAVNET).

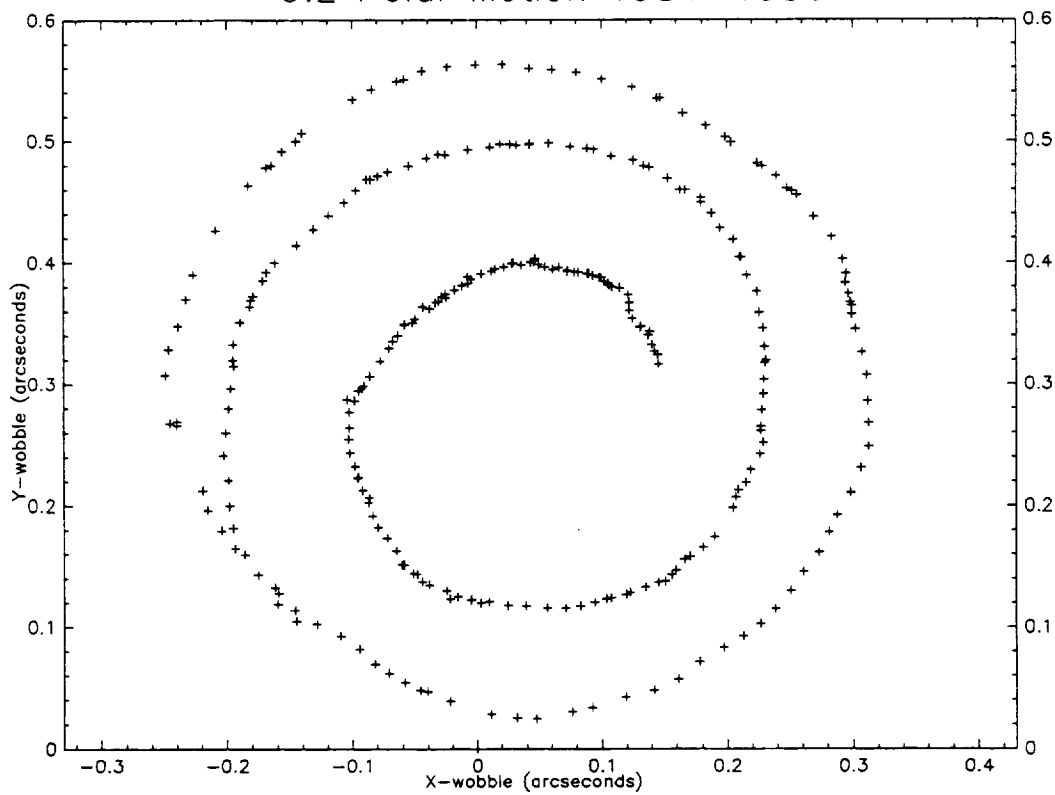
The actual data plotted in 9.1 through 9.6 are available in the machine-readable version in a modified IERS format. In this format UT1 - UTC is included, rather than UT1 - TAI. The tabulated values in machine-readable form include the errors, the weighted rms delay in ps for the corresponding session, and the correlations among the earth orientation and nutation parameters.

Rates for the Earth orientation and nutation parameters were not estimated in the solutions for this report.

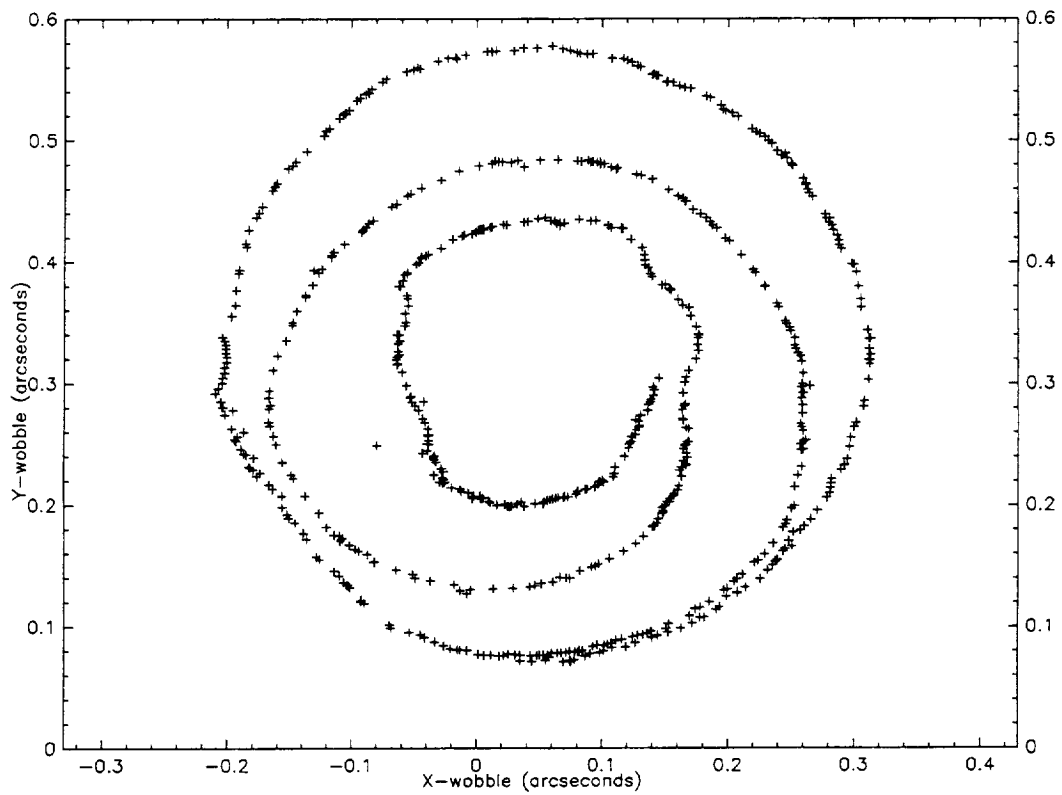
9.1 Polar Motion 1979–1983



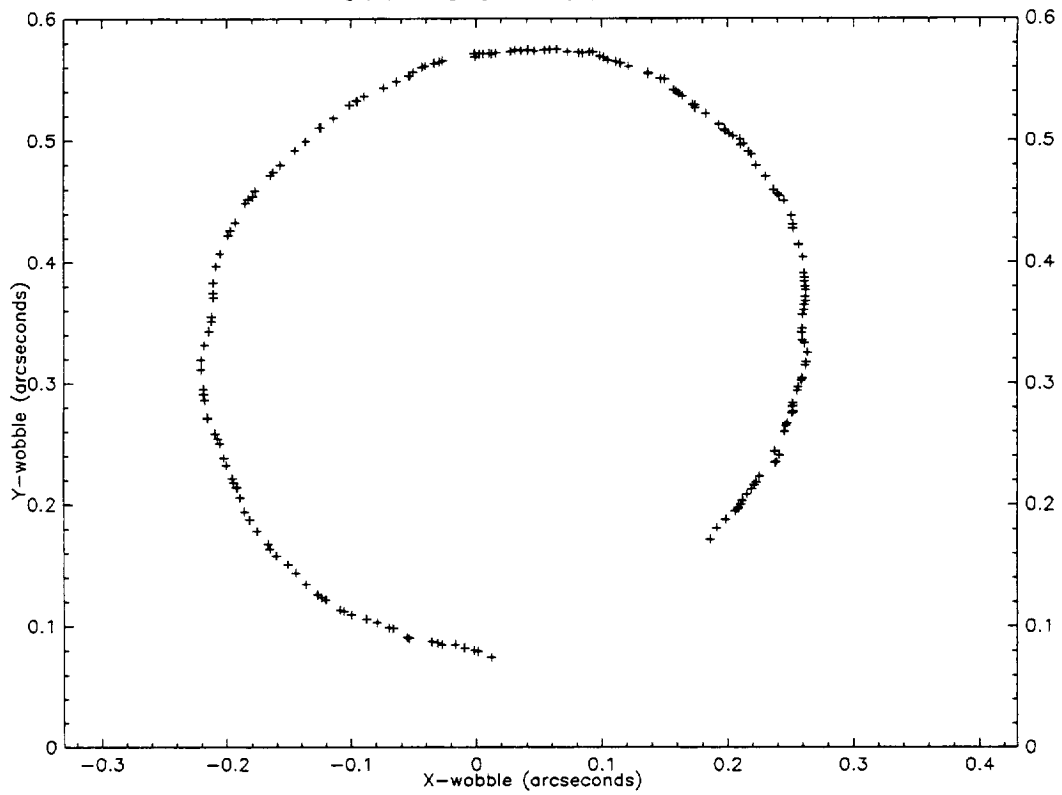
9.2 Polar Motion 1984–1986



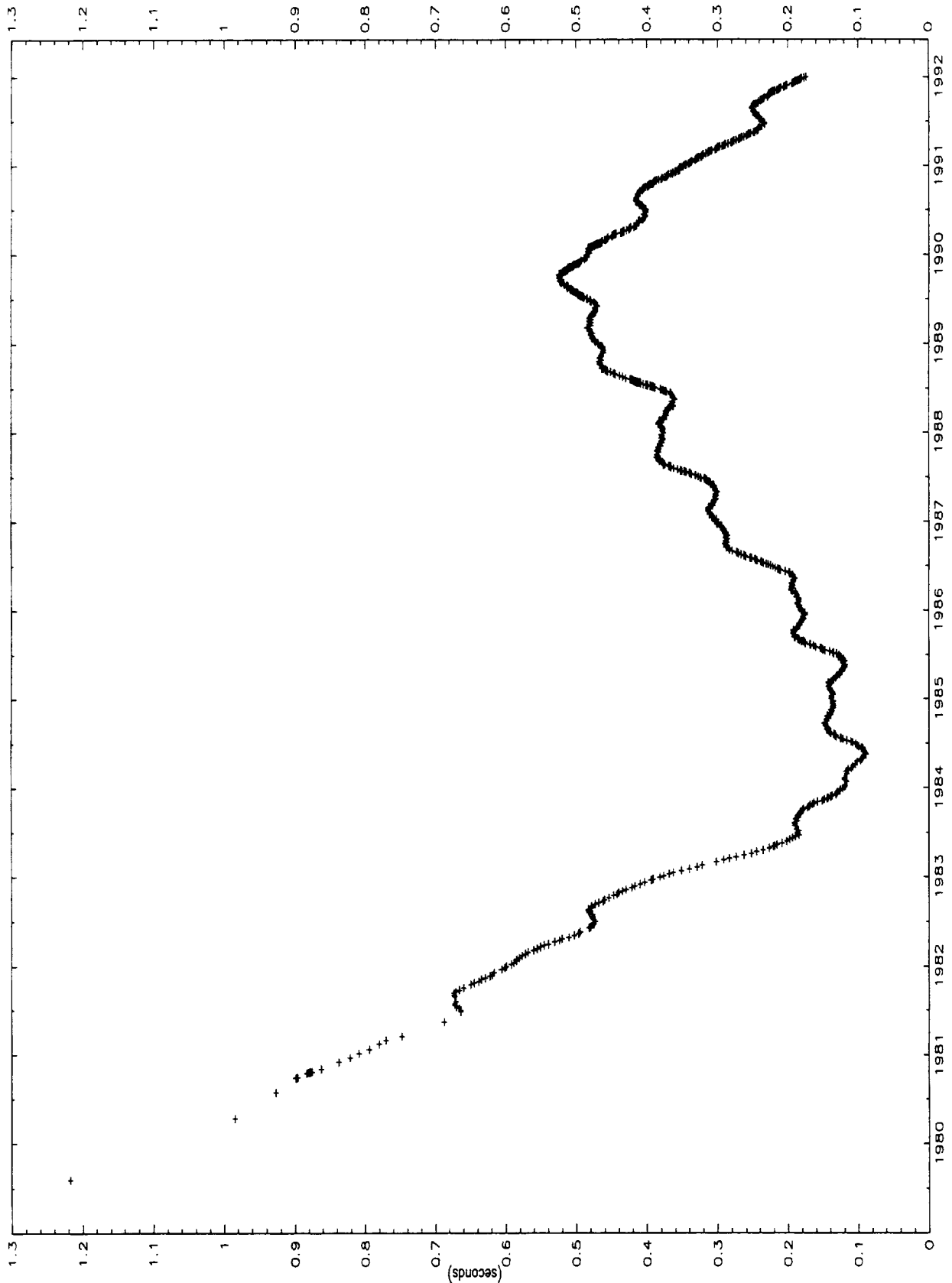
9.3 Polar Motion 1987 – 1990



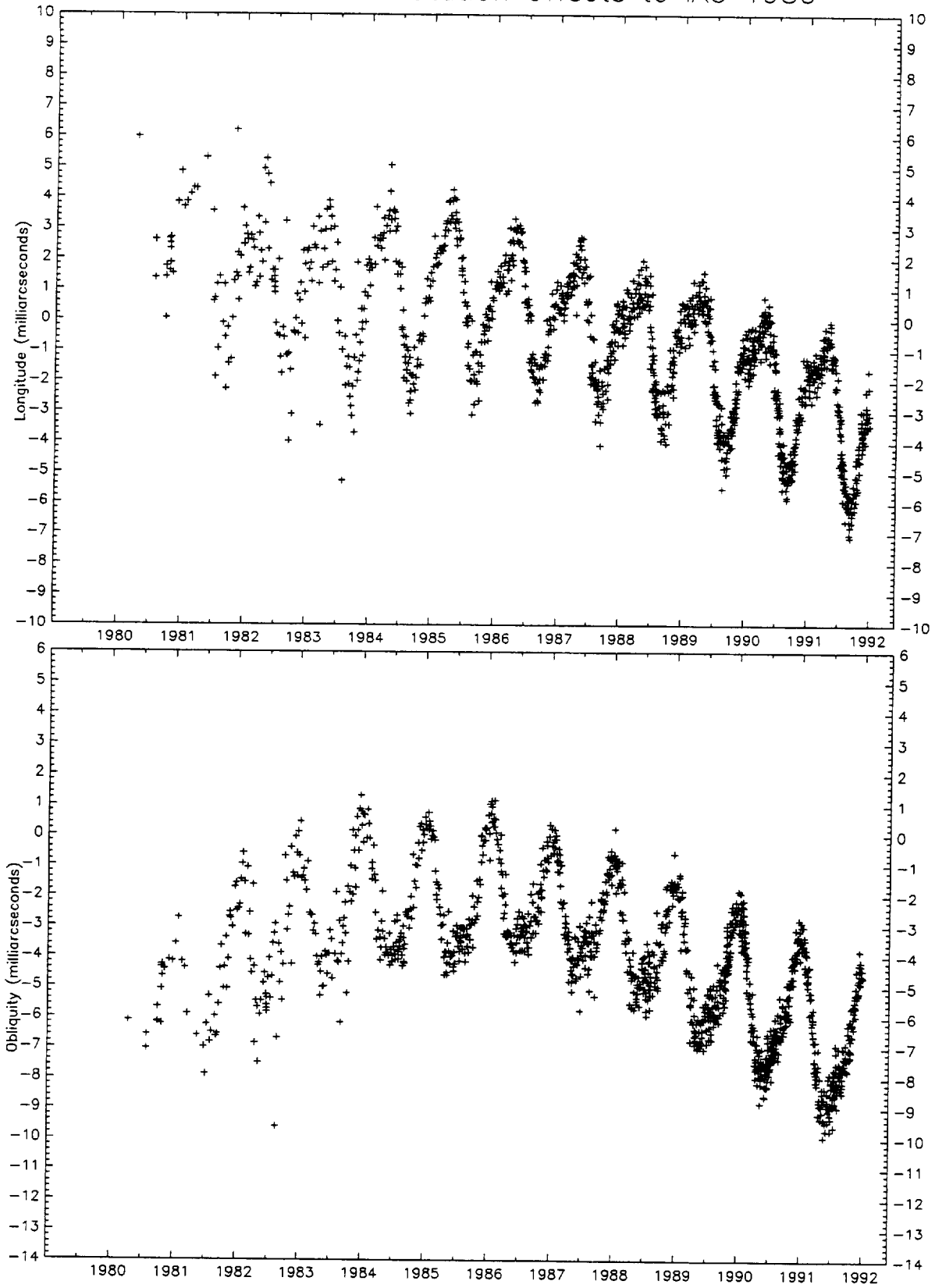
9.4 Polar Motion 1991



9.5 Variation in UT1 - TAI



9.6 CDP VLBI Nutation Offsets to IAU 1980



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13. ABSTRACT (Maximum 200 words) The Goddard VLBI group reports the results of analyzing 1648 Mark III data sets acquired from fixed and mobile observing sites through the end of 1991, and available to the Crustal Dynamics Project. Two large solutions were used to obtain Earth rotation parameters, nutation offsets, radio source positions, site positions, site velocities, and baseline evolution. Site positions are tabulated on a yearly basis for 1979 to 1995, inclusive. Site velocities are presented in both geocentric Cartesian and topocentric coordinates. Baseline evolution is plotted for 200 baselines, and individual length determinations are presented for an additional 356 baselines. This report includes 155 quasar radio sources, 96 fixed stations and mobile sites, and 556 baselines.				
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