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*Lagrangian modelling of precipitation and speleothem proxy oxygen isotope systematics in the East Asian Summer Monsoon region*

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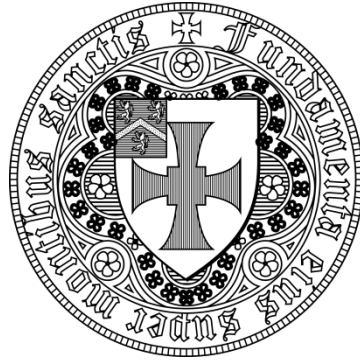
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Lagrangian modelling of precipitation and speleothem  
proxy oxygen isotope systematics in the East Asian  
Summer Monsoon region

Alexander John Baker

**Appendices**

Department of Earth Sciences  
University of Durham

2014

**Appendix 1. Full Gib04a monthly growth rate reconstruction.**

Decimal date	<u>Meteorological data</u>			<u>Modelled dripwater and calcite</u>		
	Temperature (°C)	Rainfall (mm)	Water excess (mm)	Mean [Ca <sup>2+</sup> ] (mmol L <sup>-1</sup> )	R <sub>0</sub> (mm a <sup>-1</sup> )	Gib04a height (mm)
2007.96	15.00	176.00	172.38	3.19	0.84	-
2007.87	17.00	66.60	61.86	3.56	1.07	-
2007.79	20.80	37.20	29.05	4.24	1.40	-
2007.71	22.60	89.80	79.42	4.55	1.59	-
2007.62	24.20	0.40	-13.07	4.85	1.71	-
2007.54	24.30		-14.61	4.87	1.93	-
2007.46	20.20	1.60	-8.41	4.14	1.43	-
2007.37	19.40	43.00	33.82	3.99	1.39	-
2007.29	16.00	83.40	77.77	3.38	0.98	-
2007.21	15.40	23.40	18.55	3.29	0.98	-
2007.12	15.20	86.30	82.49	3.24	0.91	-
2007.04	13.70	114.40	111.25	2.97	0.82	-
2006.96	14.10	38.00	34.76	3.05	0.82	-
2006.87	17.30	100.60	95.66	3.61	1.07	-
2006.79	20.50	128.70	120.75	4.17	1.31	-
2006.71	23.10	6.40	-4.46	4.66	1.57	-
2006.62	24.30	5.80	-7.79	4.87	1.56	-
2006.54	24.70	2.00	-13.10	4.94	1.72	-
2006.46	21.50	2.80	-8.55	4.37	1.64	-
2006.37	19.40	0.60	-8.62	4.00	1.36	-
2006.29	17.10	54.40	47.94	3.58	1.16	-
2006.21	15.30	94.80	89.97	3.26	1.04	-
2006.12	11.80	58.20	55.85	2.64	0.62	-
2006.04	12.50	160.00	157.34	2.75	0.74	-
2005.96	14.30	105.00	101.58	3.08	0.74	-
2005.87	16.00	68.00	63.66	3.39	0.89	-
2005.79	18.10	96.00	89.66	3.75	0.97	-
2005.71	21.60		-9.61	4.39	1.45	-
2005.62	23.70	0.60	-12.41	4.76	1.29	-
2005.54	24.90	0.00	-15.38	4.98	1.80	-
2005.46	22.00	0.00	-11.96	4.46	1.58	-
2005.37	20.30	303.00	292.81	4.11	1.41	-
2005.29	17.30	2.60	-4.13	3.63	1.17	-
2005.21	14.70	96.00	91.42	3.15	0.92	-
2005.12	12.50	268.80	266.09	2.73	0.60	-

2005.04	12.80	0.80	-2.07	2.83	0.71	-
2004.96	13.40		-2.99	2.94	0.73	-
2004.87	18.00	95.60	90.21	3.74	1.15	-
2004.79	19.80	49.20	41.72	4.06	1.31	-
2004.71	22.80	37.30	26.67	4.60	1.61	-
2004.62	24.50		-13.84	4.91	1.74	-
2004.54	24.40		-14.78	4.89	1.94	-
2004.46	21.70		-11.62	4.41	1.56	-
2004.37	18.00	87.60	79.55	3.74	1.27	-
2004.29	15.50	88.10	82.69	3.29	0.75	55.99
2004.21	15.10	56.60	51.82	3.23	0.78	55.93
2004.12	13.30	100.60	97.58	2.90	0.62	55.87
2004.04	13.10	30.80	27.83	2.88	0.64	55.81
2003.96	14.10	191.60	188.42	3.03	0.67	55.76
2003.87	16.70	75.20	70.65	3.51	0.84	55.71
2003.79	19.60	190.00	182.78	4.00	1.01	55.64
2003.71	23.00	3.10	-7.62	4.64	1.28	55.55
2003.62	25.20	0.00	-14.57	5.03	1.30	55.44
2003.54	24.60		-14.95	4.92	1.38	55.34
2003.46	23.10	0.00	-13.00	4.66	1.48	55.22
2003.37	19.60	2.00	-7.32	4.04	1.12	55.10
2003.29	16.60	83.40	77.39	3.49	0.91	55.00
2003.21	15.60	148.00	143.07	3.30	0.89	54.93
2003.12	13.00	137.00	134.23	2.84	0.60	54.85
2003.04	13.10	98.00	95.15	2.87	0.67	54.80
2002.96	15.10	133.00	129.40	3.22	0.65	54.75
2002.87	17.10	259.50	254.77	3.55	0.77	54.69
2002.79	19.90	204.00	196.60	4.05	0.86	54.63
2002.71	21.10	22.00	12.99	4.30	1.15	54.56
2002.62	24.20	0.00	-13.43	4.85	1.02	54.46
2002.54	24.00	0.00	-14.22	4.82	1.41	54.38
2002.46	21.30	12.60	1.57	4.34	1.24	54.26
2002.37	21.90	22.70	11.13	4.44	1.28	54.16
2002.29	16.80	67.30	61.20	3.53	0.92	54.05
2002.21	15.20	94.40	89.76	3.24	0.79	53.97
2002.12	15.20	112.30	108.56	3.24	0.69	53.91
2002.04	15.00	24.20	20.51	3.22	0.73	53.85
2001.96	14.50	265.20	261.86	3.09	0.65	53.79
2001.87	15.40	55.40	51.54	3.28	0.77	53.74

2001.79	20.10	62.20	54.63	4.11	1.11	53.67
2001.71	22.60	39.40	29.06	4.56	1.32	53.58
2001.62	25.10	0.00	-14.45	5.01	1.46	53.47
2001.54	23.80	0.00	-14.00	4.78	1.58	53.35
2001.46	22.80	0.00	-12.65	4.61	1.35	53.22
2001.37	18.30	17.40	9.29	3.80	1.07	53.10
2001.29	17.80	1.20	-5.67	3.72	0.90	53.02
2001.21	16.90	79.00	73.25	3.54	0.90	52.94
2001.12	14.40	47.60	44.22	3.11	0.70	52.87
2001.04	13.90	107.40	104.22	3.01	0.69	52.81
2000.96	14.60	293.00	289.50	3.10	0.70	52.75
2000.87	15.40	90.00	86.03	3.28	0.75	52.69
2000.79	18.40	86.00	79.53	3.81	0.94	52.63
2000.71	22.70	9.00	-1.52	4.59	1.26	52.55
2000.62	23.90	0.00	-13.18	4.80	1.22	52.45
2000.54	23.80	0.00	-14.07	4.78	1.33	52.35
2000.46	22.80	0.00	-12.75	4.61	1.46	52.23
2000.37	19.00	43.00	34.10	3.92	1.08	52.11
2000.29	15.90	145.00	139.35	3.36	0.86	52.02
2000.21	16.10	20.00	14.63	3.41	0.93	51.95
2000.12	15.50	0.00	-4.02	3.31	0.79	51.87
2000.04	13.00	109.00	106.10	2.85	0.67	51.81
1999.96	14.50	35.00	31.61	3.13	0.61	51.75
1999.87	15.80	43.00	38.89	3.36	0.70	51.70
1999.79	19.70	149.00	141.68	4.03	0.85	51.64
1999.71	22.80	27.00	16.44	4.60	1.26	51.57
1999.62	24.50	0.00	-13.80	4.91	1.03	51.47
1999.54	24.50	1.00	-13.85	4.91	1.44	51.38
1999.46	22.30	0.00	-12.16	4.52	1.31	51.26
1999.37	19.40	10.00	0.82	4.00	1.11	51.15
1999.29	17.60	33.00	26.21	3.68	0.98	51.06
1999.21	15.20	77.00	72.27	3.24	0.79	50.98
1999.12	13.60	32.00	28.94	2.97	0.58	50.91
1999.04	13.40	70.00	66.99	2.93	0.62	50.86
1998.96	14.00	64.00	60.85	3.03	0.63	50.81
1998.87	17.40	2.00	-2.95	3.65	0.91	50.76
1998.79	18.80	1.00	-5.67	3.89	1.02	50.68
1998.71	22.90	30.00	19.36	4.62	1.34	50.60
1998.62	24.90	1.00	-13.24	4.98	1.45	50.49

1998.54	24.00	0.00	-14.25	4.82	1.60	50.36
1998.46	21.90	4.00	-7.72	4.44	1.28	50.23
1998.37	18.50	27.00	18.66	3.84	1.08	50.12
1998.29	16.50	21.00	15.04	3.48	0.82	50.03
1998.21	16.30	54.00	48.60	3.44	0.86	49.97
1998.12	15.00	161.00	157.30	3.19	0.74	49.89
1998.04	14.10	75.00	71.69	3.05	0.71	49.83
1997.96	14.90	182.00	178.61	3.17	0.73	49.77
1997.87	17.30	230.00	225.28	3.59	0.87	49.71
1997.79	22.10	70.00	60.98	4.47	1.19	49.64
1997.71	23.30	30.00	19.10	4.69	1.29	49.54
1997.62	23.90	1.00	-12.03	4.80	1.22	49.43
1997.54	22.70	2.00	-10.61	4.59	1.26	49.33
1997.46	22.40	5.00	-7.08	4.53	1.43	49.23
1997.37	19.90	39.00	29.61	4.08	1.14	49.11
1997.29	18.70	24.00	16.60	3.87	1.06	49.01
1997.21	17.00	4.00	-1.65	3.58	1.00	48.93
1997.12	15.90		-3.97	3.38	0.82	48.84
1997.04	13.60	212.00	209.09	2.94	0.70	48.77
1996.96	14.50	652.00	648.50	3.02	0.58	48.71
1996.87	16.20	161.00	156.57	3.41	0.72	48.67
1996.79	18.90	58.00	51.13	3.90	0.81	48.61
1996.71	21.40	25.00	15.57	4.35	1.17	48.54
1996.62	24.30	1.00	-12.64	4.87	1.02	48.44
1996.54	23.50	0.00	-13.77	4.73	1.38	48.36
1996.46	21.90	5.00	-6.85	4.44	1.28	48.24
1996.37	18.60	80.00	71.39	3.85	1.05	48.13
1996.29	17.30	123.00	116.29	3.61	0.95	48.05
1996.21	15.10	130.00	125.19	3.22	0.78	47.97
1996.12	13.10	57.00	54.05	2.87	0.55	47.90
1996.04	14.50	482.00	478.37	3.05	0.66	<b>47.86</b>
1995.96	15.90	357.00	352.92	3.32	0.74	47.80
1995.87	18.50	97.00	91.38	3.82	0.98	47.74
1995.79	21.00	1.00	-7.32	4.29	1.18	47.66
1995.71	21.68		-4.77	4.40	1.26	47.56
1995.62	25.10	0.00	-14.48	5.01	1.46	47.46
1995.54	23.90	1.00	-13.16	4.80	1.59	47.33
1995.46	21.60	27.00	15.55	4.39	1.26	47.20
1995.37	20.00	10.00	0.23	4.11	1.19	47.10

1995.29	16.60	28.00	21.91	3.50	0.82	47.00
1995.21	15.80	21.00	15.87	3.36	0.83	46.93
1995.12	15.30	36.00	32.12	3.27	0.77	46.86
1995.04	14.10	28.00	24.65	3.06	0.71	46.80
1994.96	15.15		-7.28	3.25	0.76	46.74
1994.87	17.70	62.00	57.10	3.69	0.91	46.67
1994.79	19.80	49.00	41.85	4.06	1.03	46.60
1994.71	22.00	18.00	8.36	4.46	1.21	46.51
1994.62	25.00	0.00	-14.27	5.00	1.29	46.41
1994.54	26.00	1.00	-15.66	5.17	1.47	46.30
1994.46	21.80	2.00	-9.37	4.43	1.38	46.18
1994.37	19.50	23.00	14.05	4.02	1.11	46.07
1994.29	16.50	58.00	52.34	3.48	0.91	45.97
1994.21	16.00	2.00	-2.92	3.40	0.93	45.90
1994.12	13.50	83.00	80.21	2.94	0.64	45.82
1994.04	13.50	55.00	52.18	2.95	0.71	45.77
1993.96	14.00	7.00	3.65	3.04	0.58	45.71
1993.87	16.10	143.00	138.54	3.39	0.71	45.66
1993.79	17.80	158.00	151.78	3.69	0.51	45.60
1993.71	21.70	22.00	12.24	4.41	0.87	45.56
1993.62	24.60	5.00	-9.00	4.92	0.67	45.48
1993.54	23.90	0.00	-14.27	4.80	1.03	45.43
1993.46	21.40	1.00	-10.43	4.36	0.92	45.34
1993.37	18.40	58.00	49.45	3.81	0.76	45.27
1993.29	16.30	100.00	93.90	3.43	0.65	45.20
1993.21	14.70	204.00	199.33	3.13	0.55	45.15
1993.12	13.60	101.00	97.75	2.96	0.42	45.10
1993.04	13.20	71.00	67.89	2.89	0.44	45.07
1992.96	14.70	111.00	107.35	3.15	0.49	45.03
1992.87	16.10	10.00	5.57	3.41	0.61	44.99
1992.79	18.20	14.00	7.54	3.79	0.73	44.94
1992.71	21.50	15.00	5.43	4.37	0.94	44.88
1992.62	24.50	1.00	-12.88	4.91	1.04	44.80
1992.54	23.50	1.00	-12.81	4.73	1.21	44.71
1992.46	20.10	147.00	136.87	4.10	0.85	44.61
1992.37	19.70	3.00	-6.68	4.05	0.87	44.54
1992.29	16.90	49.00	42.50	3.55	0.59	44.47
1992.21	15.30	42.00	37.00	3.27	0.58	44.42
1992.12	13.30	10.00	6.90	2.92	0.48	44.37



1992.04	13.15	18.00	14.93	2.89	0.49	44.33
1991.96	14.50	145.00	141.48	3.11	0.53	44.29
1991.87	15.50	66.00	61.90	3.30	0.57	44.25
1991.79	18.10	195.00	188.64	3.74	0.67	44.20
1991.71	23.90	56.00	44.34	4.79	0.98	44.14
1991.62	24.80	3.00	-11.19	4.96	0.89	44.06
1991.54	24.50	1.00	-13.92	4.91	0.99	43.99
1991.46	21.50	4.00	-7.47	4.37	1.04	43.90
1991.37	18.20	3.00	-5.30	3.79	0.75	43.82
1991.29	15.70	64.00	58.39	3.33	0.63	43.76
1991.21	14.90	118.00	113.28	3.18	0.64	43.70
1991.12	12.50	95.00	92.27	2.76	0.43	43.65
1991.04	13.30	61.00	57.90	2.91	0.54	43.61
1990.96	13.30	292.00	289.26	2.87	0.37	43.57
1990.87	15.80	53.00	49.02	3.35	0.50	43.54
1990.79	20.10	77.00	69.51	4.11	0.60	43.50
1990.71	24.70	5.00	-7.31	4.94	1.02	43.45
1990.62	25.60	1.00	-14.01	5.10	0.71	43.36
1990.54	24.50	1.00	-13.78	4.91	1.06	43.30
1990.46	22.30	2.00	-10.03	4.52	0.96	43.21
1990.37	19.70	10.00	0.71	4.05	0.83	43.13
1990.29	16.50	132.00	126.19	3.46	0.66	43.07
1990.21	16.10	89.00	83.87	3.40	0.62	43.01
1990.12	15.80	1.00	-2.98	3.36	0.54	42.96
1990.04	13.80	136.00	132.94	2.98	0.47	42.91
1989.96	16.00	556.00	552.01	3.30	0.54	42.87
1989.87	17.10	369.00	364.33	3.53	0.65	42.83
1989.79	20.70	101.00	93.05	4.21	0.86	42.78
1989.71	22.90	15.00	4.43	4.62	1.01	42.70
1989.62	26.10	0.00	-15.61	5.19	1.12	42.62
1989.54	25.10	0.00	-15.53	5.01	1.31	42.53
1989.46	22.30	1.00	-11.04	4.52	0.96	42.42
1989.37	18.90	42.00	33.45	3.91	1.19	42.34
1989.29	15.60	49.00	43.81	3.32	0.82	42.24
1989.21	15.60	22.00	17.18	3.32	0.88	42.17
1989.12	14.10	101.00	97.83	3.04	0.72	42.10
1989.04	13.70	191.00	187.98	2.96	0.72	42.04
1988.96	14.70	0.00	-3.37	3.17	0.78	41.98
1988.87	17.00	259.00	254.37	3.53	0.91	41.91

1988.79	19.90	103.00	95.64	4.07	1.12	41.84
1988.71	22.70	13.00	2.61	4.58	1.35	41.74
1988.62	25.80	0.00	-15.25	5.14	1.45	41.63
1988.54	23.50	8.00	-5.60	4.73	1.42	41.51
1988.46	20.80	15.00	4.53	4.25	1.40	41.39
1988.37	22.70	19.00	6.61	4.58	1.43	41.27
1988.29	17.10	23.00	16.73	3.59	1.02	41.16
1988.21	15.90	26.00	20.98	3.38	0.98	41.07
1988.12	13.80	50.00	46.96	3.00	0.71	40.99
1988.04	13.90	70.00	66.87	3.01	0.79	40.93
1987.96	15.50	167.00	163.13	3.28	0.72	40.86
1987.87	16.10	261.00	256.72	3.37	0.77	40.80
1987.79	18.90	125.00	118.24	3.89	0.88	40.74
1987.71	23.70	32.00	20.60	4.76	1.42	40.67
1987.62	24.10	135.00	121.63	4.81	1.11	40.55
1987.54	23.80	5.00	-9.04	4.78	1.50	40.46
1987.46	21.50	0.00	-11.33	4.37	1.35	40.33
1987.37	19.50	0.00	-9.29	4.02	1.20	40.22
1987.29	17.10	35.00	28.57	3.59	1.02	40.12
1987.21	16.30	0.00	-5.44	3.45	0.93	40.03
1987.12	13.50	128.00	124.97	2.93	0.61	39.96
1987.04	13.10	216.00	213.11	2.85	0.63	39.90
1986.96	14.30	15.00	11.68	3.09	0.70	39.85
1986.87	17.00	85.00	80.24	3.56	0.94	39.79
1986.79	20.90	51.00	42.76	4.26	1.25	39.71
1986.71	23.30	13.00	1.97	4.69	1.47	39.61
1986.62	24.50	0.00	-13.81	4.91	1.53	39.49
1986.54	23.90	0.00	-14.16	4.80	1.69	39.36
1986.46	22.50	1.00	-11.39	4.55	1.43	39.22
1986.37	19.60	0.00	-9.39	4.04	1.24	39.10
1986.29	14.70	53.00	48.20	3.16	0.77	39.00
1986.21	14.80	61.00	56.49	3.18	0.82	38.93
1986.12	13.60	107.00	103.92	2.95	0.68	38.87
1986.04	13.20	37.00	34.06	2.90	0.69	38.81
1985.96	14.10	53.00	49.78	3.05	0.73	38.75
1985.87	17.10	230.00	225.19	3.55	0.92	38.69
1985.79	21.50	0.00	-8.70	4.37	1.24	38.61
1985.71	23.60	3.00	-8.31	4.75	1.42	38.51
1985.62	23.40	0.00	-12.62	4.71	1.29	38.39

1985.54	24.30	1.00	-13.62	4.87	1.47	38.28
1985.46	22.00	0.00	-11.85	4.46	1.49	38.16
1985.37	18.10	27.00	18.98	3.77	1.10	38.04
1985.29	17.00	55.00	48.65	3.57	1.01	37.95
1985.21	14.60	6.00	1.62	3.15	0.88	37.86
1985.12	14.90	85.00	81.33	3.19	0.79	37.79
1985.04	12.30	108.00	105.45	2.72	0.65	37.72
1984.96	14.50	11.00	7.45	3.13	0.67	37.67
1984.87	16.50	153.00	148.36	3.46	0.80	37.61
1984.79	18.90	15.00	8.07	3.91	0.89	37.55
1984.71	23.41	0.00	-11.23	4.71	1.40	37.47
1984.62	24.30	2.00	-11.66	4.87	1.13	37.35
1984.54	24.10	0.00	-14.48	4.84	1.52	37.26
1984.46	20.10	7.00	-3.12	4.13	1.25	37.13
1984.37	17.10	80.00	72.59	3.58	1.02	37.03
1984.29	16.90	13.00	6.51	3.56	1.00	36.94
1984.21	13.80	209.00	204.89	2.97	0.74	36.86
1984.12	13.70	65.00	61.73	2.98	0.63	36.80
1984.04	13.60	15.00	11.74	2.97	0.68	36.75
1983.96	14.90	131.00	127.49	3.18	0.74	36.69
1983.87	18.30	303.00	297.58	3.75	1.02	36.63
1983.79	21.80	10.00	1.12	4.43	1.32	36.54
1983.71	23.90	0.00	-11.55	4.80	1.51	36.43
1983.62	23.60	3.00	-9.78	4.75	1.46	36.31
1983.54	24.30	0.00	-14.58	4.87	1.72	36.19
1983.46	22.10	0.00	-11.88	4.48	1.69	36.04
1983.37	18.50	1.00	-7.27	3.84	1.40	35.90
1983.29	16.50	42.00	36.10	3.48	1.09	35.78
1983.21	15.60	15.00	10.11	3.32	1.06	35.69
1983.12	12.40	99.00	96.50	2.74	0.70	35.61
1983.04	13.90	1.00	-2.17	3.03	0.90	35.55
1982.96	13.00	39.00	36.17	2.86	0.77	35.47
1982.87	15.80	117.00	112.79	3.34	1.00	35.41
1982.79	18.70	38.00	31.28	3.87	1.25	35.32
1982.71	23.10	7.00	-3.90	4.66	1.67	35.22
1982.62	22.80	9.00	-3.07	4.60	1.55	35.08
1982.54	24.10	3.00	-11.44	4.84	1.78	34.95
1982.46	22.50	0.00	-12.46	4.55	1.83	34.80
1982.37	18.90	5.00	-3.86	3.91	1.40	34.65

1982.29	16.30	129.00	123.02	3.43	1.16	34.54
1982.21	15.70	43.00	37.84	3.34	1.15	34.44
1982.12	14.40	39.00	35.47	3.11	0.90	34.34
1982.04	14.30	128.00	124.48	3.07	0.96	34.27
1981.96	15.70	140.00	136.00	3.32	0.90	34.19
1981.87	17.90	1.00	-4.28	3.74	1.11	34.11
1981.79	19.90	11.00	3.50	4.09	1.18	34.02
1981.71	22.80	2.00	-8.59	4.60	1.64	33.92
1981.62	23.90	0.00	-13.16	4.80	1.40	33.79
1981.54	23.30	1.00	-12.49	4.69	1.77	33.67
1981.46	21.50	2.00	-9.35	4.37	1.64	33.52
1981.37	18.60	22.00	13.50	3.86	1.37	33.38
1981.29	15.90	127.00	121.39	3.36	1.11	33.27
1981.21	16.30	43.00	37.54	3.44	1.12	33.18
1981.12	13.70	8.00	4.86	2.99	0.77	33.08
1981.04	12.90	0.00	-2.83	2.85	0.77	33.02
1980.96	12.90	7.00	4.23	2.85	0.73	32.96
1980.87	16.20	121.00	116.60	3.41	1.05	32.90
1980.79	19.30	22.00	14.88	3.98	1.35	32.81
1980.71	23.90	2.00	-9.63	4.80	1.81	32.70
1980.62	24.90	0.00	-14.27	4.98	1.88	32.54
1980.54	23.00	0.00	-13.19	4.64	1.92	32.39
1980.46	21.90	14.00	2.18	4.44	1.67	32.23
1980.37	18.50	61.00	52.52	3.83	1.39	32.09
1980.29	17.00	29.00	22.55	3.57	1.13	31.97
1980.21	14.90	139.00	134.35	3.18	0.99	31.88
1980.12	14.70	163.00	159.35	3.14	0.91	31.80
1980.04	12.60	114.00	111.25	2.78	0.77	31.72
1979.96	14.30	24.00	20.62	3.09	0.89	31.66
1979.87	15.90	6.00	1.75	3.38	1.02	31.58
1979.79	18.70	204.00	197.29	3.84	1.23	31.50
1979.71	22.90	27.00	16.28	4.62	1.65	31.39
1979.62	24.80	0.00	-14.17	4.96	1.71	31.26
1979.54	23.50	0.00	-13.75	4.73	1.73	31.11
1979.46	21.60	1.00	-10.52	4.39	1.75	30.97
1979.37	19.10	1.00	-8.02	3.95	1.42	30.82
1979.29	16.10	64.00	58.18	3.41	1.14	30.71
1979.21	14.10	82.00	77.81	3.05	0.99	30.61
1979.12	14.30	173.00	169.53	3.07	0.88	30.53

1979.04	14.70	202.00	198.30	3.13	0.99	30.46
1978.96	15.30	179.00	175.09	3.24	0.87	30.37
1978.87	16.90	41.00	36.17	3.55	1.02	30.30
1978.79	19.30	41.00	33.81	3.98	1.13	30.21
1978.71	22.90	2.00	-8.76	4.62	1.65	30.12
1978.62	24.70	0.00	-14.08	4.94	1.46	29.98
1978.54	23.30	0.00	-13.57	4.69	1.77	29.86
1978.46	19.50	17.00	7.46	4.02	1.46	29.71
1978.37	17.10	37.00	29.62	3.59	1.24	29.59
1978.29	15.90	63.00	57.24	3.37	1.22	29.49
1978.21	15.30	45.00	40.03	3.27	1.13	29.39
1978.12	14.70	137.00	133.29	3.14	0.92	29.29
1978.04	13.10	52.00	48.98	2.88	0.85	29.22
1977.96	15.10	123.00	119.10	3.22	0.99	29.15
1977.87	16.30	137.00	132.40	3.43	1.15	29.06
1977.79	19.10	69.00	61.87	3.94	1.44	28.97
1977.71	21.80	0.00	-9.87	4.43	1.76	28.85
1977.62	22.30	1.00	-10.68	4.52	1.80	28.70
1977.54	21.90	1.00	-11.16	4.45	1.96	28.55
1977.46	20.00	13.00	2.88	4.11	1.64	28.39
1977.37	18.30	37.00	28.49	3.80	1.50	28.25
1977.29	17.50	0.00	-7.02	3.66	1.28	28.13
1977.21	15.70	7.00	1.68	3.34	1.17	28.02
1977.12	13.90	70.00	66.58	3.01	0.91	27.92
1977.04	13.30	278.00	274.81	2.87	0.88	27.85
1976.96	14.10	291.00	287.54	3.01	0.92	27.77
1976.87	14.60	12.00	8.22	3.15	0.99	27.69
1976.79	18.10	93.00	86.51	3.75	1.29	27.61
1976.71	21.90	12.00	2.02	4.44	1.70	27.50
1976.62	24.50	0.00	-13.92	4.91	1.84	27.36
1976.54	24.20	0.00	-14.65	4.85	1.95	27.21
1976.46	21.60	17.00	5.30	4.39	1.89	27.05
1976.37	18.10	78.00	69.62	3.76	1.44	26.89
1976.29	14.50	107.00	102.01	3.11	1.09	26.77
1976.21	14.30	109.00	104.48	3.08	1.09	26.68
1976.12	14.00	53.00	49.50	3.03	0.93	26.59
1976.04	12.80	44.00	41.00	2.82	0.89	26.51
1975.96	13.20	305.00	301.98	2.85	0.75	26.43
1975.87	15.70	58.00	53.72	3.34	1.01	26.37

1975.79	19.30	4.00	-3.26	3.98	1.25	26.29
1975.71	21.80	1.00	-8.86	4.43	1.69	26.18
1975.62	24.80	0.00	-14.22	4.96	1.62	26.04
1975.54	23.70	0.00	-14.07	4.77	1.97	25.91
1975.46	20.60	1.00	-9.67	4.21	1.70	25.74
1975.37	17.70	25.00	17.02	3.70	1.41	25.60
1975.29	15.70	58.00	52.28	3.34	1.20	25.49
1975.21	13.90	107.00	102.77	3.01	0.99	25.39
1975.12	14.30	135.00	131.41	3.07	0.88	25.30
1975.04	14.10	133.00	129.46	3.04	0.94	25.23
1974.96	14.70	1.00	-2.69	3.17	0.95	25.15
1974.87	15.90	8.00	3.62	3.38	1.11	25.07
1974.79	18.10	96.00	89.56	3.75	1.32	24.98
1974.71	22.60	0.00	-10.54	4.57	1.81	24.87
1974.62	24.40	0.00	-13.79	4.89	1.97	24.72
1974.54	23.60	0.00	-13.95	4.75	2.10	24.56
1974.46	21.10	9.00	-2.15	4.30	1.71	24.38
1974.37	18.30	6.00	-2.49	3.81	1.47	24.24
1974.29	14.40	136.00	131.13	3.09	0.98	24.11
1974.21	14.10	27.00	22.66	3.06	1.00	24.03
1974.12	13.50	88.00	84.77	2.94	0.85	23.95
1974.04	14.10	34.00	30.46	3.06	0.97	23.88
1973.96	13.10	167.00	163.99	2.86	0.82	23.80
1973.87	16.50	117.00	112.28	3.47	1.14	23.73
1973.79	18.70	7.00	0.13	3.88	1.34	23.63
1973.71	22.90	0.00	-10.82	4.62	1.77	23.52
1973.62	23.90	0.00	-13.29	4.80	1.76	23.38
1973.54	23.10	0.00	-13.43	4.66	1.82	23.23
1973.46	21.20	2.00	-9.28	4.32	1.82	23.08
1973.37	18.50	61.00	52.30	3.83	1.45	22.93
1973.29	15.70	0.00	-5.75	3.35	1.19	22.80
1973.21	14.10	64.00	59.62	3.05	1.06	22.70
1973.12	12.90	17.00	14.01	2.85	0.81	22.62
1973.04	12.90	53.00	49.97	2.84	0.89	22.55
1972.96	13.90	89.00	85.43	3.01	0.82	22.48
1972.87	16.30	130.00	125.16	3.43	1.04	22.41
1972.79	18.60	136.00	128.96	3.84	1.16	22.32
1972.71	20.40	119.00	110.03	4.16	1.52	22.22
1972.62	22.90	0.00	-12.46	4.62	1.45	22.10

1972.54	22.10	0.00	-12.60	4.48	1.78	21.98
1972.46	19.70	11.00	0.86	4.05	1.58	21.83
1972.37	16.70	57.00	49.46	3.51	1.29	21.70
1972.29	15.90	35.00	28.81	3.37	1.20	21.59
1972.21	13.70	167.00	162.57	2.96	0.95	21.49
1972.12	13.00	77.00	73.74	2.85	0.75	21.41
1972.04	11.90	167.00	164.18	2.64	0.71	21.35
1971.96	13.30	128.00	124.84	2.90	0.81	21.29
1971.87	14.60	64.00	60.17	3.14	0.98	21.22
1971.79	21.60	18.00	8.97	4.39	1.67	21.14
1971.71	22.60	0.00	-10.62	4.57	1.81	21.00
1971.62	24.10	4.00	-9.54	4.84	1.94	20.85
1971.54	23.30	0.00	-13.70	4.69	2.07	20.69
1971.46	19.40	10.00	0.33	4.00	1.55	20.52
1971.37	16.30	70.00	63.00	3.44	1.28	20.39
1971.29	15.40	162.00	156.35	3.26	1.06	20.28
1971.21	13.20	98.00	94.04	2.88	0.91	20.19
1971.12	13.90	15.00	11.49	3.02	0.90	20.12
1971.04	12.70	85.00	81.99	2.80	0.83	20.04
1970.96	12.30	178.00	175.35	2.71	0.74	19.97
1970.87	16.80	28.00	23.15	3.54	1.18	19.91
1970.79	18.70	27.00	20.16	3.87	1.40	19.81
1970.71	22.80	0.00	-10.72	4.60	1.84	19.69
1970.62	24.70	0.00	-14.11	4.94	1.92	19.54
1970.54	23.70	0.00	-14.06	4.77	1.96	19.38
1970.46	20.40	34.00	23.52	4.17	1.82	19.22
1970.37	17.40	67.00	59.27	3.64	1.42	19.07
1970.29	16.30	93.00	86.87	3.44	1.30	18.95
1970.21	13.90	75.00	70.77	3.01	1.09	18.84
1970.12	13.70	3.00	-0.32	2.99	0.93	18.75
1970.04	13.90	507.00	503.55	2.94	0.99	18.67
1969.96	12.50	63.00	60.22	2.77	0.73	18.59
1969.87	16.20	333.00	328.41	3.38	1.06	18.53
1969.79	19.10	100.00	92.82	3.93	1.26	18.44
1969.71	20.70	39.00	29.99	4.23	1.63	18.33
1969.62	23.70	1.00	-12.10	4.76	1.60	18.20
1969.54	23.30	0.00	-13.67	4.69	1.99	18.06
1969.46	20.10	9.00	-1.26	4.12	1.70	17.90
1969.37	18.50	33.00	24.26	3.84	1.53	17.76

1969.29	16.10	108.00	101.93	3.40	1.27	17.63
1969.21	15.10	175.00	169.99	3.21	1.13	17.52
1969.12	13.30	351.00	347.80	2.86	0.79	17.43
1969.04	14.30	324.00	320.31	3.04	0.97	17.36
1968.96	13.50	82.00	78.86	2.94	0.87	17.28
1968.87	16.30	111.00	106.43	3.43	1.29	17.21
1968.79	19.90	19.00	11.33	4.09	1.71	17.10
1968.71	22.10	0.00	-10.10	4.48	2.00	16.96
1968.62	24.10	10.00	-3.47	4.83	2.21	16.79
1968.54	23.90	0.00	-14.28	4.80	2.41	16.61
1968.46	20.90	19.00	8.06	4.26	1.93	16.41
1968.37	18.50	11.00	2.35	3.84	1.70	16.25
1968.29	15.80	10.00	4.23	3.36	1.28	16.11
1968.21	13.80	92.00	87.84	2.99	1.10	16.00
1968.12	13.30	186.00	182.87	2.89	0.94	15.91
1968.04	13.10	48.00	44.92	2.88	0.99	15.83
1967.96	12.30	51.00	48.30	2.73	0.86	15.75
1967.87	15.70	207.00	202.67	3.31	1.20	15.68
1967.79	19.10	71.00	63.83	3.94	1.56	15.58
1967.71	21.50	2.00	-7.66	4.37	1.87	15.45
1967.62	24.10	0.00	-13.51	4.84	2.05	15.29
1967.54	23.70	0.00	-14.10	4.77	2.14	15.12
1967.46	20.50	53.00	42.37	4.19	1.98	14.94
1967.37	18.20	17.00	8.52	3.79	1.63	14.78
1967.29	15.60	45.00	39.28	3.32	1.35	14.64
1967.21	15.30	14.00	8.88	3.27	1.34	14.53
1967.12	13.80	162.00	158.59	2.98	1.00	14.41
1967.04	12.90	27.00	23.95	2.84	1.01	14.33
1966.96	13.30	35.00	32.00	2.91	0.88	14.25
1966.87	13.90	70.00	66.66	3.01	0.95	14.17
1966.79	18.30	62.00	55.50	3.80	1.31	14.09
1966.71	22.30	26.00	15.77	4.51	1.95	13.98
1966.62	24.70	0.00	-14.08	4.94	1.85	13.82
1966.54	23.30	0.00	-13.58	4.69	2.17	13.67
1966.46	21.90	1.00	-10.89	4.45	2.04	13.49
1966.37	19.30	11.00	1.71	3.98	1.75	13.32
1966.29	16.90	45.00	38.53	3.55	1.48	13.17
1966.21	14.90	47.00	42.27	3.20	1.22	13.05
1966.12	14.50	163.00	159.38	3.10	1.01	12.95



1966.04	14.10	67.00	63.52	3.05	1.06	12.86
1965.96	13.90	35.00	31.63	3.02	0.99	12.77
1965.87	15.80	67.00	62.63	3.35	1.24	12.69
1965.79	18.70	199.00	192.11	3.84	1.55	12.59
1965.71	20.30	59.00	50.32	4.15	1.80	12.46
1965.62	23.10	0.00	-12.49	4.66	2.11	12.31
1965.54	23.00	0.00	-13.34	4.64	0.83	12.13
1965.46	21.90	9.00	-3.00	4.44	0.59	12.06
1965.37	19.30	23.00	13.57	3.98	0.54	12.02
1965.29	17.00	6.00	-0.69	3.58	0.34	11.97
1965.21	15.10	83.00	78.01	3.22	0.36	11.94
1965.12	12.90	101.00	97.99	2.83	0.30	11.91
1965.04	12.30	108.00	105.21	2.72	0.29	11.89
1964.96	12.50	96.00	93.40	2.76	0.28	11.86
1964.87	15.60	91.00	86.92	3.31	0.36	11.84
1964.79	19.20	3.00	-4.04	3.97	0.46	11.81
1964.71	24.00	7.00	-4.72	4.82	0.61	11.77
1964.62	24.50	0.00	-13.83	4.91	0.50	11.72
1964.54	24.30	0.00	-14.65	4.87	0.59	11.68
1964.46	21.10	14.00	3.01	4.30	0.68	11.63
1964.37	20.50	18.00	7.68	4.19	0.54	11.57
1964.29	15.10	21.00	15.87	3.24	0.38	11.53
1964.21	15.40	123.00	118.06	3.27	0.45	11.50
1964.12	13.90	123.00	119.73	3.00	0.35	11.46
1964.04	13.90	87.00	83.69	3.01	0.40	11.43
1963.96	14.00	418.00	414.76	2.97	0.23	11.40
1963.87	16.60	89.00	84.39	3.49	0.31	11.38
1963.79	20.00	9.00	1.38	4.11	0.33	11.35
1963.71	21.50	31.00	21.51	4.37	0.54	11.32
1963.62	23.70	0.00	-12.98	4.76	0.33	11.28
1963.54	24.50	0.00	-14.89	4.91	0.66	11.25
1963.46	20.80	19.00	8.30	4.25	0.55	11.20
1963.37	18.40	100.00	91.61	3.81	0.47	11.15
1963.29	16.40	55.00	48.98	3.46	0.41	11.11
1963.21	18.60	40.00	32.89	3.85	0.47	11.08
1963.12	12.40	259.00	256.37	2.71	0.22	11.04
1963.04	13.50	293.00	289.87	2.90	0.28	11.02
1962.96	15.80	379.00	374.97	3.30	0.33	11.00
1962.87	14.10	157.00	153.69	3.03	0.32	10.97

1962.79	20.30	122.00	114.22	4.14	0.55	10.94
1962.71	24.10	2.00	-9.78	4.84	0.70	10.90
1962.62	25.00	0.00	-14.36	5.00	0.66	10.84
1962.54	24.10	0.00	-14.39	4.84	0.87	10.78
1962.46	20.50	7.00	-3.33	4.20	0.54	10.71
1962.37	19.20	33.00	23.98	3.96	0.54	10.66
1962.29	16.70	71.00	64.85	3.51	0.34	10.62
1962.21	14.90	194.00	189.43	3.17	0.35	10.59
1962.12	13.50	17.00	13.96	2.95	0.33	10.56
1962.04	14.30	67.00	63.56	3.09	0.36	10.53
1961.96	15.20	230.00	226.29	3.22	0.37	10.50
1961.87	15.70	479.00	474.94	3.26	0.35	10.47
1961.79	19.00	21.00	14.18	3.93	0.45	10.44
1961.71	23.30	3.00	-8.02	4.69	0.59	10.41
1961.62	24.70	0.00	-14.02	4.94	0.50	10.36
1961.54	24.00	0.00	-14.26	4.82	0.58	10.31
1961.46	21.60	14.00	2.58	4.39	0.69	10.27
1961.37	20.40	118.00	107.88	4.16	0.53	10.21
1961.29	17.90	23.00	15.99	3.73	0.46	10.16
1961.21	15.00	69.00	64.40	3.21	0.44	10.13
1961.12	14.30	18.00	14.62	3.09	0.37	10.09
1961.04	12.30	25.00	22.46	2.74	0.34	10.06
1960.96	12.22	67.00	89.28	2.71	0.23	10.03
1960.87	16.11	70.00	147.16	3.39	0.39	10.01
1960.79	18.32	195.00	136.44	3.78	0.48	9.98
1960.71	21.99	3.00	74.69	4.45	0.63	9.94
1960.62	23.56	2.00	1.19	4.74	0.62	9.89
1960.54	23.84	4.00	-8.90	4.79	0.86	9.83
1960.46	22.19	0.00	-14.47	4.50	0.60	9.76
1960.37	19.44	30.00	-14.33	4.01	0.55	9.71
1960.29	17.12	26.00	14.04	3.59	0.35	9.67
1960.21	15.21	153.00	8.71	3.26	0.36	9.64
1960.12	14.21	162.00	202.69	3.05	0.35	9.61
1960.04	12.31	235.00	164.17	2.72	0.29	9.58
1959.96	13.47	37.00	105.56	2.93	0.31	9.56
1959.87	15.66	125.00	25.05	3.33	0.37	9.53
1959.79	19.86	99.00	57.76	4.07	0.48	9.50
1959.71	22.81	4.00	24.25	4.60	0.58	9.46
1959.62	23.60	1.00	56.79	4.74	0.48	9.41

1959.54	23.43	1.00	-12.02	4.72	0.56	9.37
1959.46	21.39	1.00	-14.78	4.36	0.69	9.32
1959.37	17.91	77.00	-7.41	3.74	0.46	9.27
1959.29	16.69	11.00	-6.40	3.52	0.43	9.23
1959.21	14.96	55.00	38.63	3.21	0.44	9.19
1959.12	13.06	45.00	89.37	2.86	0.32	9.16
1959.04	14.05	372.00	71.70	3.04	0.41	9.13
1958.96	14.30	282.00	224.77	3.06	0.24	9.10
1958.87	15.83	50.00	136.21	3.34	0.29	9.08
1958.79	19.32	18.00	111.18	3.97	0.31	9.05
1958.71	22.93	1.00	44.14	4.62	0.58	9.02
1958.62	23.77	1.00	-6.85	4.78	0.34	8.98
1958.54	22.12	0.00	-10.56	4.48	0.59	8.95
1958.46	20.79	23.00	-14.76	4.25	0.55	8.90
1958.37	19.55	10.00	-15.81	4.03	0.51	8.85
1958.29	15.80	10.00	-7.94	3.36	0.39	8.81
1958.21	15.32	57.00	75.70	3.26	0.36	8.78
1958.12	14.68	9.00	130.27	3.14	0.30	8.75
1958.04	12.51	51.00	169.09	2.75	0.25	8.72
1957.96	12.65	159.00	66.79	2.79	0.25	8.70
1957.87	15.12	176.00	65.55	3.23	0.36	8.68
1957.79	19.32	43.00	188.73	3.95	0.51	8.65
1957.71	24.02	39.00	72.62	4.81	0.70	8.61
1957.62	24.63	0.00	-8.97	4.93	0.65	8.55
1957.54	24.25	0.00	-11.06	4.86	0.88	8.50
1957.46	19.96	13.00	-13.81	4.10	0.53	8.42
1957.37	17.72	27.00	-13.26	3.70	0.49	8.38
1957.29	15.48	185.00	-11.14	3.31	0.31	8.34
1957.21	15.94	53.00	-8.85	3.39	0.38	8.31
1957.12	14.10	16.00	91.88	3.05	0.35	8.28
1957.04	11.18	79.00	119.41	2.52	0.25	8.25
1956.96	12.89	42.00	189.34	2.81	0.29	8.23
1956.87	14.44	54.00	194.83	3.09	0.32	8.21
1956.79	19.95	12.00	150.26	4.07	0.48	8.18
1956.71	20.90	49.00	31.65	4.26	0.52	8.14
1956.62	23.64	17.00	-2.37	4.75	0.48	8.10
1956.54	23.05	0.00	-3.49	4.65	1.36	8.06
1956.46	20.81	0.00	-13.71	4.25	1.38	7.94
1956.37	18.34	2.00	-14.19	3.82	1.10	7.83

1956.29	15.42	149.00	-12.09	3.30	0.89	7.74
1956.21	14.21	208.00	90.23	3.06	0.83	7.66
1956.12	10.06	179.00	460.50	2.26	0.37	7.60
1956.04	13.01	133.00	94.15	2.85	0.70	7.56
1955.96	15.40	98.00	129.88	3.27	0.70	7.51
1955.87	16.75	465.00	176.98	3.50	0.80	7.45
1955.79	19.74	98.00	203.68	4.02	0.91	7.38
1955.71	23.69	0.00	143.59	4.74	1.39	7.31
1955.62	24.29	0.00	-6.36	4.87	1.10	7.19
1955.54	23.78	0.00	-11.26	4.78	1.47	7.10
1955.46	21.61	8.00	-13.30	4.39	2.01	6.98
1955.37	21.30	8.00	3.21	4.34	1.97	6.81
1955.29	17.77	38.00	39.08	3.70	1.57	6.64
1955.21	14.20	154.00	3.52	3.08	1.15	6.51
1955.12	14.08	198.00	50.16	3.05	0.98	6.42
1955.04	15.30	193.00	38.82	3.27	1.19	6.34
1954.96	14.35	123.00	76.79	3.09	1.04	6.24
1954.87	17.42	97.00	12.51	3.65	1.43	6.15
1954.79	20.76	0.00	47.92	4.23	1.80	6.03
1954.71	22.54	0.00	179.79	4.53	2.03	5.88
1954.62	23.31	0.00	19.40	4.69	2.13	5.71
1954.54	23.71	0.00	2.79	4.76	2.39	5.53
1954.46	21.89	1.00	-14.44	4.44	2.04	5.33
1954.37	19.46	0.00	-14.74	4.01	1.81	5.16
1954.29	15.88	78.00	26.40	3.37	1.28	5.01
1954.21	14.65	193.00	35.21	3.15	1.20	4.91
1954.12	11.80	68.00	172.02	2.62	0.77	4.81
1954.04	11.31	69.00	156.11	2.54	0.78	4.74
1953.96	15.33	173.00	48.30	3.27	1.19	4.68
1953.87	17.00	135.00	5.27	3.57	1.37	4.58
1953.79	18.99	83.00	52.32	3.92	1.55	4.46
1953.71	23.48	4.00	4.63	4.72	2.08	4.33
1953.62	25.61	0.00	0.91	5.10	2.20	4.16
1953.54	24.62	0.00	12.03	4.92	2.24	3.98
1953.46	21.57	1.00	-12.13	4.39	2.11	3.79
1953.37	20.63	3.00	-12.78	4.22	1.90	3.62
1953.29	16.89	50.00	-10.53	3.56	1.49	3.46
1953.21	14.15	115.00	10.25	3.07	1.21	3.33
1953.12	12.99	139.00	45.70	2.86	0.92	3.23

1953.04	11.72	227.00	278.41	2.59	0.84	3.15
1952.96	14.01	75.00	368.66	2.98	0.92	3.08
1952.87	16.75	94.00	42.01	3.52	1.25	3.01
1952.79	20.32	47.00	50.54	4.16	1.51	2.90
1952.71	21.87	4.00	5.06	4.44	1.91	2.78
1952.62	24.41	7.00	69.30	4.88	1.82	2.62
1952.54	24.64	0.00	-10.57	4.93	2.31	2.47
1952.46	22.89	1.00	-12.52	4.62	2.15	2.27
1952.37	18.77	65.00	-12.59	3.89	1.70	2.10
1952.29	16.68	30.00	-7.41	3.52	1.46	1.95
1952.21	16.58	63.00	90.84	3.48	1.40	1.83
1952.12	13.31	28.00	120.80	2.90	0.89	1.72
1952.04	12.21	108.00	33.79	2.72	0.86	1.64
1951.96	14.90	168.00	232.39	3.16	1.08	1.57
1951.87	15.96	207.00	158.49	3.36	1.25	1.48
1951.79	18.78	16.00	148.39	3.87	1.57	1.38
1951.71	22.37	25.00	19.77	4.52	2.03	1.24
1951.62	24.30	0.00	21.01	4.86	2.23	1.08
1951.54	24.31	0.00	-12.40	4.87	2.46	0.89
1951.46	21.76	3.00	-9.96	4.42	2.03	0.68
1951.37	18.13	9.00	-11.55	3.78	1.66	0.51
1951.29	17.32	81.00	-7.65	3.63	1.43	0.38
1951.21	15.23	141.00	187.99	3.23	1.24	0.26
1951.12	12.81	150.00	65.56	2.82	0.89	0.15
1951.04	12.69	92.00	64.33	2.80	0.94	0.08

## Appendix 2. Geographical areas of moisture source sectors and target domains

Name	Abbreviation	Land area	Area (m <sup>2</sup> )	
			Ocean area	Total area
<b><u>Source sectors</u></b>				
Indian Ocean NW	IndOcNW	5.46E+09	1.18E+10	1.73E+10
Indian Ocean NE	IndOcNE	5.28E+08	1.07E+10	1.13E+10
South China Sea	SCS	9.30E+08	3.04E+09	3.97E+09
Philippine Sea South	PSS	1.12E+09	1.34E+10	1.46E+10
Philippine Sea North	PhiSeaN	9.33E+08	9.91E+09	1.08E+10
China East	CE	2.63E+09	2.14E+08	2.84E+09
China South	CS	1.69E+09	8.78E+08	2.56E+09
India	India	2.42E+09	1.06E+09	3.47E+09
Tibetan Plateau	TibPlat	4.00E+09	0.00E+00	4.00E+09
Mongolia	Mongol	5.64E+09	1.29E+08	5.77E+09
Middle East	ME	8.28E+09	1.51E+09	9.80E+09
<b>Total =</b>		<b>3.36E+10</b>	<b>5.27E+10</b>	<b>8.63E+10</b>
<b><u>Target domains</u></b>				
monsoonal China		5.54E+09	0.00E+00	5.54E+09
Wanxiang Cave		4.15E+07	0.00E+00	4.15E+07
Hulu Cave		4.17E+07	0.00E+00	4.17E+07
Dongge Cave		4.47E+07	0.00E+00	4.47E+07
Dayu Cave		4.14E+07	0.00E+00	4.14E+07

**Appendix 3a. Sectorised monthly time series of boundary layer evaporative moisture uptake from terrestrial areas**

Date	Sector uptake (mm month <sup>-1</sup> ) for LAND-ONLY											Area-weighted total
	IndOcNW	IndOcNE	SCS	PSS	PhiSeaN	CE	CS	India	TibPlat	Mongol	ME	
01 November 1999	0.00	0.00	2.38	0.03	0.44	43.26	20.82	0.36	5.36	1.85	0.20	74.70
01 December 1999	0.00	0.00	1.49	0.41	0.51	22.86	19.22	0.13	3.63	0.69	0.17	49.12
01 January 2000	0.00	0.00	4.29	0.13	0.56	26.10	25.17	1.11	2.73	0.93	0.18	61.20
01 February 2000	0.04	0.04	5.17	0.31	0.40	25.34	27.72	2.52	3.19	0.64	0.20	65.57
01 March 2000	0.05	0.05	4.20	0.17	0.40	24.23	27.05	4.07	3.28	0.41	0.48	64.38
01 April 2000	0.04	0.04	5.73	0.37	0.24	24.44	25.83	4.12	4.63	1.26	0.64	67.34
01 May 2000	0.07	0.07	3.60	0.09	0.26	23.98	21.80	5.81	3.97	1.73	1.13	62.50
01 June 2000	0.02	0.02	4.09	0.17	0.15	24.44	20.05	4.07	4.14	1.31	1.07	59.53
01 July 2000	0.03	0.03	2.68	0.13	0.28	30.70	19.03	2.70	2.22	1.30	1.37	60.46
01 August 2000	0.03	0.03	3.43	0.16	0.51	31.23	18.94	2.40	2.70	1.55	0.70	61.68
01 September 2000	0.02	0.02	2.12	0.20	0.76	31.46	20.68	2.16	3.60	2.57	0.55	64.15
01 October 2000	0.00	0.00	2.40	0.33	0.90	27.00	20.09	0.59	4.00	3.02	0.17	58.51
01 November 2000	0.00	0.00	1.11	0.23	1.13	29.42	19.67	0.71	5.91	2.06	0.15	60.39
01 December 2000	0.00	0.00	2.24	0.08	0.65	30.20	24.96	0.15	3.96	1.03	0.17	63.44
01 January 2001	0.00	0.00	4.83	0.28	0.63	23.40	23.04	0.75	3.48	0.95	0.13	57.49
01 February 2001	0.03	0.03	3.92	0.03	0.60	25.84	26.63	2.16	4.48	1.16	0.37	65.24
01 March 2001	0.01	0.01	5.68	0.44	0.34	22.54	24.19	2.35	4.96	0.82	0.31	61.65
01 April 2001	0.02	0.02	4.91	0.26	0.44	26.88	24.26	2.83	4.39	1.27	0.43	65.71
01 May 2001	0.08	0.08	3.01	0.11	0.24	23.78	24.46	6.55	4.41	1.54	1.08	65.34
01 June 2001	0.03	0.03	3.81	0.12	0.19	24.13	18.71	3.90	3.90	1.76	1.34	57.93
01 July 2001	0.03	0.03	3.58	0.31	0.18	24.79	17.87	2.74	3.12	1.06	1.24	54.94
01 August 2001	0.01	0.01	2.45	0.12	0.69	33.51	17.27	1.49	3.85	3.04	0.55	63.00
01 September 2001	0.01	0.01	1.24	0.15	1.26	34.24	15.68	1.86	4.84	3.45	0.41	63.15
01 October 2001	0.00	0.00	2.77	0.14	0.97	33.20	22.51	0.92	5.09	1.93	0.10	67.62
01 November 2001	0.00	0.00	2.52	0.18	0.71	28.04	18.97	0.44	5.33	1.83	0.29	58.31
01 December 2001	0.00	0.00	2.04	0.34	0.84	23.63	14.60	0.13	3.99	1.38	0.19	47.13
01 January 2002	0.04	0.04	4.32	0.16	0.26	21.39	28.66	2.98	3.66	0.72	0.24	62.48
01 February 2002	0.00	0.00	3.96	0.01	0.54	28.02	22.85	1.01	3.34	0.55	0.11	60.40
01 March 2002	0.01	0.01	5.29	0.45	0.33	21.87	24.03	2.14	4.31	0.90	0.38	59.72
01 April 2002	0.03	0.03	5.30	0.47	0.25	26.99	24.79	3.24	4.10	1.48	0.36	67.05
01 May 2002	0.05	0.05	4.21	0.25	0.37	21.33	20.17	5.31	3.37	1.60	0.86	57.56
01 June 2002	0.02	0.02	4.05	0.05	0.21	25.47	23.01	3.25	4.27	1.62	0.75	62.72
01 July 2002	0.05	0.05	2.63	0.07	0.20	22.17	15.77	5.60	2.73	2.45	1.62	53.33
01 August 2002	0.01	0.01	2.68	0.21	0.47	25.51	15.35	1.35	2.41	2.99	0.81	51.80
01 September 2002	0.01	0.01	2.22	0.26	1.09	28.51	13.52	1.70	4.05	3.61	0.26	55.24
01 October 2002	0.01	0.01	2.91	0.21	0.69	29.33	21.79	0.94	5.05	2.44	0.17	63.55
01 November 2002	0.00	0.00	3.36	0.11	0.58	24.92	24.19	0.45	3.48	0.98	0.16	58.23
01 December 2002	0.00	0.00	3.95	0.15	0.61	26.44	24.16	0.38	3.19	1.17	0.19	60.24
01 January 2003	0.00	0.00	4.13	0.06	0.53	23.94	27.63	0.74	3.21	0.59	0.23	61.06
01 February 2003	0.01	0.01	5.61	0.29	0.41	25.49	22.44	1.70	3.53	0.60	0.22	60.31

01 March 2003	0.02	0.02	4.64	0.40	0.47	23.88	24.17	2.11	3.91	1.34	0.30	61.26
01 April 2003	0.03	0.03	5.72	0.19	0.24	26.61	24.31	3.34	4.94	2.05	0.42	67.89
01 May 2003	0.05	0.05	4.32	0.24	0.36	24.27	22.12	4.30	4.11	1.70	0.49	62.00
01 June 2003	0.06	0.06	3.17	0.02	0.17	23.00	18.04	5.14	4.09	1.51	0.83	56.09
01 July 2003	0.01	0.01	3.46	0.16	0.08	24.35	21.45	1.76	5.53	1.51	0.43	58.75
01 August 2003	0.00	0.00	2.81	0.21	0.48	30.27	17.54	1.31	4.34	3.23	0.39	60.58
01 September 2003	0.00	0.00	2.37	0.40	0.60	31.52	17.35	1.26	5.06	2.25	0.35	61.16
01 October 2003	0.00	0.00	2.82	0.08	0.88	30.60	27.02	1.10	6.03	2.93	0.12	71.59
01 November 2003	0.00	0.00	2.45	0.22	0.71	36.54	17.93	0.22	6.15	2.27	0.25	66.74
01 December 2003	0.01	0.01	2.53	0.01	0.35	32.12	31.13	0.70	4.71	0.84	0.16	72.57
01 January 2004	0.01	0.01	4.25	0.02	0.46	25.42	30.76	1.37	3.60	0.56	0.27	66.73
01 February 2004	0.01	0.01	5.22	0.15	0.31	24.28	28.99	1.91	3.75	0.62	0.25	65.49
01 March 2004	0.02	0.02	4.45	0.15	0.45	22.26	24.91	3.09	6.86	1.73	0.72	64.67
01 April 2004	0.08	0.08	4.39	0.07	0.23	24.32	27.59	6.48	3.88	1.27	0.93	69.32
01 May 2004	0.03	0.03	4.75	0.30	0.12	22.25	24.36	5.01	4.41	1.75	0.49	63.49
01 June 2004	0.04	0.04	2.73	0.06	0.33	25.89	18.59	4.91	3.78	2.05	1.37	59.80
01 July 2004	0.03	0.03	3.62	0.21	0.11	20.79	19.69	3.41	3.03	2.26	0.93	54.11
01 August 2004	0.02	0.02	2.16	0.17	0.66	30.02	15.40	1.89	2.49	1.97	0.51	55.31
01 September 2004	0.02	0.02	2.36	0.23	0.62	30.74	18.67	2.88	4.62	1.57	0.55	62.28
01 October 2004	0.01	0.01	2.38	0.01	0.38	36.84	29.54	1.06	6.49	1.28	0.13	78.14
01 November 2004	0.00	0.00	2.62	0.02	0.45	38.45	21.45	0.32	4.77	1.05	0.20	69.33
01 December 2004	0.00	0.00	2.81	0.38	0.68	29.75	18.96	0.85	4.46	1.12	0.29	59.30
01 January 2005	0.02	0.02	5.03	0.18	0.39	24.12	30.06	1.52	3.63	0.42	0.25	65.63
01 February 2005	0.02	0.02	4.74	0.61	0.47	19.69	21.74	2.89	3.78	0.79	0.43	55.18
01 March 2005	0.05	0.05	3.40	0.31	0.27	18.36	27.42	5.28	4.31	1.17	0.63	61.24



**Appendix 3b. Sectorised monthly time series of combined boundary layer and free troposphere moisture contributions from oceanic areas**

Date	Sector contribution (mm month <sup>-1</sup> ) for OCEAN-ONLY										
	IndOcNW	IndOcNE	SCS	PSS	PhiSeaN	CE	CS	India	TibPlat	Mongol	ME
01 November 1999	0.05	0.04	5.86	0.34	3.19	2.13	0.08	0.03	0.00	0.14	0.04
01 December 1999	0.04	0.55	6.18	6.95	10.42	1.57	1.14	0.04	0.00	0.04	0.02
01 January 2000	0.08	0.33	10.85	1.71	4.61	2.70	1.15	0.10	0.00	0.07	0.04
01 February 2000	0.10	1.26	7.87	2.71	2.91	1.60	2.98	0.49	0.00	0.02	0.06
01 March 2000	0.15	1.40	9.91	1.25	2.78	2.19	2.07	0.52	0.00	0.01	0.06
01 April 2000	0.15	1.48	10.41	2.58	1.27	1.20	2.18	0.60	0.00	0.01	0.03
01 May 2000	2.09	3.52	7.70	0.54	1.58	1.35	2.09	1.56	0.00	0.00	0.10
01 June 2000	7.37	3.56	6.87	0.83	0.34	0.57	2.44	1.76	0.00	0.01	0.14
01 July 2000	5.84	3.99	6.50	1.25	1.61	0.81	1.78	1.94	0.00	0.01	0.11
01 August 2000	4.51	3.16	6.48	1.76	1.87	1.06	2.05	1.37	0.00	0.02	0.06
01 September 2000	3.66	2.38	5.27	0.95	2.57	1.71	1.30	1.11	0.00	0.13	0.07
01 October 2000	0.75	0.68	6.80	2.52	5.41	2.14	1.26	0.21	0.00	0.18	0.02
01 November 2000	0.08	0.12	3.20	2.22	6.68	1.99	0.19	0.04	0.00	0.19	0.03
01 December 2000	0.11	0.22	5.99	1.86	6.13	2.30	0.26	0.04	0.00	0.07	0.04
01 January 2001	0.03	0.19	13.19	2.59	4.76	2.95	1.25	0.08	0.00	0.10	0.05
01 February 2001	0.18	0.71	7.74	0.66	3.45	2.89	1.80	0.29	0.00	0.08	0.09
01 March 2001	0.11	0.39	12.57	3.54	2.98	2.47	1.63	0.22	0.00	0.01	0.04
01 April 2001	0.10	0.86	11.36	1.88	2.51	1.78	1.91	0.41	0.00	0.03	0.02
01 May 2001	1.70	4.01	6.03	0.67	0.78	0.71	2.39	1.69	0.00	0.01	0.07
01 June 2001	6.90	4.25	6.97	0.81	0.40	0.64	1.94	2.28	0.00	0.00	0.13
01 July 2001	8.57	3.64	8.30	1.95	0.75	0.88	1.76	2.08	0.00	0.00	0.16
01 August 2001	4.48	2.21	5.74	0.65	2.51	1.06	1.50	1.21	0.00	0.07	0.05
01 September 2001	1.67	1.35	3.79	0.94	5.32	1.51	0.58	0.73	0.00	0.30	0.04
01 October 2001	0.49	0.40	6.39	1.04	4.07	2.12	0.91	0.16	0.00	0.15	0.01
01 November 2001	0.25	0.52	9.77	1.00	5.34	3.06	0.66	0.10	0.00	0.13	0.03
01 December 2001	0.06	0.07	8.12	5.42	10.96	2.60	0.15	0.02	0.00	0.12	0.07
01 January 2002	0.20	1.42	10.88	1.92	3.50	2.37	1.65	0.61	0.00	0.03	0.08
01 February 2002	0.05	0.17	15.83	0.15	3.36	4.30	0.59	0.07	0.00	0.01	0.02
01 March 2002	0.13	0.47	14.83	2.65	3.26	2.10	1.83	0.23	0.00	0.01	0.04
01 April 2002	0.12	1.25	14.45	2.39	1.20	1.20	1.42	0.49	0.00	0.02	0.02
01 May 2002	2.09	3.36	10.03	1.22	1.53	1.18	2.80	1.49	0.00	0.05	0.04
01 June 2002	5.63	3.27	6.41	0.26	0.56	0.60	2.07	1.68	0.00	0.03	0.09
01 July 2002	9.58	5.03	5.65	0.55	0.94	0.83	1.59	2.64	0.00	0.03	0.15
01 August 2002	8.89	4.10	7.82	1.44	1.30	1.34	2.00	2.01	0.00	0.10	0.10
01 September 2002	1.36	1.55	8.92	1.26	4.74	1.91	1.56	0.84	0.00	0.23	0.02
01 October 2002	0.76	0.59	7.50	0.99	4.38	2.81	1.22	0.41	0.00	0.18	0.03
01 November 2002	0.21	2.69	8.96	1.17	4.50	2.81	2.73	0.36	0.00	0.05	0.03
01 December 2002	0.06	0.32	11.91	1.61	5.70	2.99	0.77	0.10	0.00	0.15	0.08
01 January 2003	0.08	0.21	13.69	0.53	3.23	4.42	1.60	0.08	0.00	0.01	0.04
01 February 2003	0.09	0.42	14.96	2.15	3.37	2.43	1.05	0.15	0.00	0.05	0.04

01 March 2003	0.08	0.31	14.98	2.29	3.17	2.44	1.31	0.19	0.00	0.07	0.03
01 April 2003	0.09	0.86	14.60	1.12	1.14	1.19	1.57	0.43	0.00	0.03	0.03
01 May 2003	1.33	2.43	9.75	1.22	1.71	1.23	1.87	1.21	0.00	0.03	0.02
01 June 2003	6.87	6.38	6.17	0.12	0.47	0.74	1.56	2.13	0.00	0.00	0.09
01 July 2003	8.21	3.50	6.57	0.86	0.26	0.48	2.02	1.58	0.00	0.01	0.07
01 August 2003	5.33	2.73	7.06	1.23	1.37	1.20	1.72	1.29	0.00	0.04	0.05
01 September 2003	2.82	1.94	6.96	2.33	2.69	1.55	1.47	0.91	0.00	0.10	0.04
01 October 2003	0.60	0.49	5.60	0.33	3.26	1.33	0.32	0.29	0.00	0.09	0.01
01 November 2003	0.04	0.01	6.63	1.62	5.35	1.89	0.02	0.00	0.00	0.17	0.02
01 December 2003	0.10	0.71	7.92	0.17	2.60	2.51	0.67	0.13	0.00	0.04	0.04
01 January 2004	0.21	0.56	11.92	0.15	2.50	3.27	0.91	0.23	0.00	0.03	0.04
01 February 2004	0.07	0.36	12.47	0.80	2.64	2.14	2.49	0.20	0.00	0.01	0.03
01 March 2004	0.14	0.64	10.08	0.74	2.45	1.74	1.89	0.42	0.00	0.02	0.06
01 April 2004	0.21	2.71	8.67	0.23	0.81	1.17	1.72	1.09	0.00	0.02	0.07
01 May 2004	3.17	2.47	8.72	1.64	0.49	0.79	2.20	1.22	0.00	0.01	0.05
01 June 2004	6.99	3.68	4.85	0.38	0.68	0.93	1.36	2.03	0.00	0.01	0.18
01 July 2004	8.77	3.73	7.70	1.29	0.43	0.70	2.48	1.91	0.00	0.02	0.11
01 August 2004	6.06	2.66	5.80	1.31	3.07	1.42	1.24	1.61	0.00	0.08	0.09
01 September 2004	2.99	2.46	5.98	1.40	1.79	0.96	1.79	1.21	0.00	0.07	0.06
01 October 2004	0.80	0.69	3.81	0.63	1.76	0.79	1.53	0.29	0.00	0.05	0.02
01 November 2004	0.04	0.10	8.27	0.58	4.84	2.37	0.18	0.04	0.00	0.05	0.02
01 December 2004	0.21	0.03	9.88	3.04	6.61	2.79	0.10	0.07	0.00	0.17	0.09
01 January 2005	0.29	0.34	15.21	0.77	1.97	2.58	1.15	0.16	0.00	0.03	0.06
01 February 2005	0.48	0.37	14.81	4.36	3.91	2.21	1.31	0.30	0.00	0.08	0.08
01 March 2005	0.33	1.40	9.62	2.13	2.86	1.68	1.41	0.76	0.00	0.02	0.08

**Appendix 3c. Sectorised monthly time series of combined boundary layer and free troposphere total moisture contributions**

Date	Sector contribution (mm month <sup>-1</sup> ) for LAND AND OCEAN											Area-weighted mean
	IndOcNW	IndOcNE	SCS	PSS	PhiSeaN	CE	CS	India	TibPlat	Mongol	ME	
01 November 1999	0.09	0.04	8.24	0.37	3.59	45.39	20.90	0.35	5.36	1.99	0.24	14.70
01 December 1999	0.08	0.56	7.67	7.36	10.96	24.43	20.36	0.18	3.63	0.73	0.19	12.94
01 January 2000	0.19	0.33	15.14	1.84	5.15	28.80	26.32	1.12	2.73	1.00	0.22	14.07
01 February 2000	0.19	1.30	13.04	3.02	3.27	26.94	30.70	2.91	3.19	0.66	0.26	14.52
01 March 2000	0.42	1.46	14.11	1.42	3.15	26.42	29.12	4.29	3.28	0.42	0.54	14.38
01 April 2000	0.24	1.53	16.14	2.95	1.48	25.64	28.01	4.32	4.63	1.28	0.67	14.76
01 May 2000	2.43	3.60	11.30	0.63	1.80	25.33	23.89	6.71	3.97	1.73	1.23	14.04
01 June 2000	9.08	3.60	10.96	1.00	0.46	25.01	22.49	5.25	4.14	1.32	1.21	14.36
01 July 2000	7.85	4.05	9.18	1.38	1.82	31.51	20.81	4.19	2.22	1.31	1.48	14.58
01 August 2000	5.71	3.21	9.91	1.92	2.27	32.29	20.99	3.39	2.70	1.57	0.76	14.39
01 September 2000	4.75	2.42	7.39	1.15	3.21	33.17	21.98	2.99	3.60	2.70	0.62	14.26
01 October 2000	1.02	0.69	9.20	2.85	6.21	29.14	21.35	0.74	4.00	3.19	0.19	13.35
01 November 2000	0.17	0.12	4.31	2.45	7.71	31.41	19.86	0.65	5.91	2.24	0.18	12.74
01 December 2000	0.29	0.22	8.23	1.94	6.76	32.50	25.22	0.18	3.96	1.09	0.21	13.69
01 January 2001	0.06	0.19	18.02	2.87	5.34	26.35	24.29	0.74	3.48	1.05	0.18	14.03
01 February 2001	0.45	0.74	11.66	0.69	3.98	28.73	28.43	2.25	4.48	1.24	0.46	14.12
01 March 2001	0.24	0.40	18.25	3.98	3.29	25.01	25.82	2.33	4.96	0.83	0.35	14.52
01 April 2001	0.18	0.89	16.27	2.14	2.90	28.66	26.17	3.02	4.39	1.30	0.45	14.67
01 May 2001	1.95	4.11	9.04	0.78	0.98	24.49	26.85	7.40	4.41	1.55	1.15	14.05
01 June 2001	8.66	4.30	10.78	0.93	0.55	24.77	20.65	5.61	3.90	1.76	1.47	14.16
01 July 2001	11.15	3.69	11.88	2.26	0.89	25.67	19.63	4.49	3.12	1.06	1.40	14.48
01 August 2001	6.05	2.24	8.19	0.77	3.10	34.57	18.77	2.43	3.85	3.11	0.60	14.22
01 September 2001	2.05	1.36	5.03	1.09	6.43	35.75	16.26	2.34	4.84	3.74	0.45	13.48
01 October 2001	0.57	0.41	9.16	1.18	4.89	35.32	23.42	0.99	5.09	2.07	0.11	14.13
01 November 2001	0.28	0.52	12.29	1.18	6.02	31.10	19.63	0.51	5.33	1.96	0.32	13.44
01 December 2001	0.15	0.07	10.16	5.76	11.73	26.23	14.75	0.12	3.99	1.49	0.26	12.69
01 January 2002	0.33	1.47	15.20	2.08	3.75	23.76	30.31	3.48	3.66	0.75	0.32	14.46
01 February 2002	0.12	0.17	19.79	0.16	3.87	32.32	23.44	0.97	3.34	0.56	0.13	14.42
01 March 2002	0.36	0.48	20.12	3.10	3.58	23.97	25.86	2.15	4.31	0.91	0.42	14.49
01 April 2002	0.23	1.29	19.75	2.86	1.41	28.19	26.21	3.46	4.10	1.50	0.38	15.18
01 May 2002	2.41	3.43	14.24	1.47	1.85	22.51	22.97	6.22	3.37	1.64	0.90	13.76
01 June 2002	6.90	3.31	10.46	0.31	0.73	26.07	25.08	4.38	4.27	1.65	0.84	14.27
01 July 2002	11.20	5.11	8.28	0.62	1.11	23.00	17.36	7.60	2.73	2.48	1.77	13.80
01 August 2002	11.10	4.13	10.50	1.65	1.69	26.85	17.35	2.91	2.41	3.09	0.91	14.03
01 September 2002	1.64	1.57	11.14	1.52	5.66	30.42	15.08	2.28	4.05	3.83	0.28	13.16
01 October 2002	0.80	0.61	10.41	1.20	4.99	32.14	23.01	1.25	5.05	2.61	0.20	13.98
01 November 2002	0.24	2.71	12.32	1.28	5.04	27.73	26.92	0.77	3.48	1.03	0.19	13.88
01 December 2002	0.11	0.32	15.86	1.76	6.24	29.43	24.93	0.44	3.19	1.31	0.27	14.25
01 January 2003	0.20	0.21	17.82	0.59	3.73	28.36	29.23	0.76	3.21	0.60	0.27	14.44
01 February 2003	0.23	0.43	20.57	2.44	3.77	27.92	23.49	1.70	3.53	0.65	0.26	14.44

01 March 2003	0.22	0.33	19.62	2.69	3.59	26.32	25.48	2.11	3.91	1.41	0.33	14.61
01 April 2003	0.17	0.89	20.32	1.31	1.34	27.80	25.88	3.43	4.94	2.08	0.45	15.05
01 May 2003	1.41	2.48	14.07	1.46	2.01	25.50	23.99	5.05	4.11	1.73	0.51	13.99
01 June 2003	8.09	6.47	9.34	0.14	0.60	23.74	19.60	6.66	4.09	1.51	0.92	13.79
01 July 2003	10.51	3.53	10.03	1.02	0.33	24.83	23.47	3.00	5.53	1.52	0.50	14.31
01 August 2003	6.77	2.75	9.87	1.44	1.78	31.47	19.26	2.31	4.34	3.27	0.44	14.22
01 September 2003	3.59	1.96	9.33	2.73	3.19	33.07	18.82	1.98	5.06	2.35	0.39	14.01
01 October 2003	0.66	0.49	8.42	0.41	4.02	31.93	27.34	1.27	6.03	3.02	0.13	14.22
01 November 2003	0.08	0.01	9.08	1.84	5.95	38.43	17.95	0.19	6.15	2.44	0.27	14.00
01 December 2003	0.31	0.73	10.45	0.18	2.94	34.63	31.80	0.80	4.71	0.88	0.20	14.88
01 January 2004	0.48	0.57	16.17	0.17	2.92	28.69	31.67	1.51	3.60	0.59	0.31	14.73
01 February 2004	0.18	0.37	17.69	0.95	2.94	26.42	31.48	1.99	3.75	0.63	0.28	14.72
01 March 2004	0.34	0.67	14.53	0.89	2.85	24.00	26.80	3.31	6.86	1.75	0.78	14.06
01 April 2004	0.45	2.80	13.06	0.30	1.01	25.49	29.31	7.01	3.88	1.29	1.00	14.54
01 May 2004	3.61	2.51	13.47	1.94	0.58	23.04	26.56	5.68	4.41	1.76	0.54	14.29
01 June 2004	8.41	3.74	7.58	0.44	0.96	26.82	19.95	6.19	3.78	2.06	1.55	13.84
01 July 2004	10.67	3.79	11.32	1.50	0.53	21.49	22.17	4.85	3.03	2.28	1.04	14.04
01 August 2004	7.97	2.70	7.96	1.48	3.61	31.44	16.64	3.15	2.49	2.04	0.60	13.61
01 September 2004	3.65	2.50	8.34	1.63	2.29	31.70	20.46	3.75	4.62	1.64	0.61	13.79
01 October 2004	1.01	0.71	6.19	0.64	2.07	37.63	31.07	1.23	6.49	1.33	0.15	15.04
01 November 2004	0.09	0.10	10.89	0.60	5.24	40.82	21.63	0.34	4.77	1.09	0.22	14.57
01 December 2004	0.48	0.03	12.69	3.42	7.19	32.54	19.06	0.83	4.46	1.29	0.38	13.99
01 January 2005	0.68	0.36	20.24	0.95	2.32	26.70	31.21	1.55	3.63	0.45	0.31	15.02
01 February 2005	1.06	0.39	19.55	4.97	4.35	21.90	23.05	2.83	3.78	0.87	0.51	14.14
01 March 2005	0.74	1.45	13.02	2.44	3.13	20.04	28.83	5.66	4.31	1.19	0.71	13.85

**Appendix 3d. Sectorised monthly time series of combined boundary layer and free troposphere moisture contributions (summary dataset)**

Date	Mean oceanic contribution (mm month <sup>-1</sup> )	
	N Indian Ocean	NW Pacific Ocean
01 November 1999	0.27	5.03
01 December 1999	0.82	24.77
01 January 2000	1.13	8.35
01 February 2000	3.60	8.12
01 March 2000	1.98	7.57
01 April 2000	2.33	10.78
01 May 2000	9.49	4.01
01 June 2000	14.89	3.45
01 July 2000	12.73	5.69
01 August 2000	10.59	5.93
01 September 2000	8.06	5.94
01 October 2000	2.90	12.22
01 November 2000	0.45	14.06
01 December 2000	0.76	11.71
01 January 2001	0.89	9.46
01 February 2001	1.13	5.79
01 March 2001	1.15	10.79
01 April 2001	1.38	8.34
01 May 2001	8.50	3.58
01 June 2001	14.76	3.25
01 July 2001	15.17	5.57
01 August 2001	9.08	5.23
01 September 2001	3.97	6.54
01 October 2001	1.75	8.32
01 November 2001	1.65	9.13
01 December 2001	0.40	19.04
01 January 2002	3.30	7.46
01 February 2002	0.62	5.82
01 March 2002	1.19	8.92
01 April 2002	1.36	8.57
01 May 2002	7.98	5.22
01 June 2002	12.15	2.32
01 July 2002	15.25	3.04
01 August 2002	14.37	5.84
01 September 2002	4.28	8.28
01 October 2002	2.19	7.43
01 November 2002	4.77	7.70
01 December 2002	1.51	10.38
01 January 2003	1.74	5.65
01 February 2003	1.70	8.32

01 March 2003	1.27	7.68
01 April 2003	1.08	7.21
01 May 2003	6.22	6.57
01 June 2003	16.54	1.85
01 July 2003	15.40	3.68
01 August 2003	10.45	5.34
01 September 2003	6.28	8.70
01 October 2003	2.19	4.72
01 November 2003	0.11	10.22
01 December 2003	1.59	4.58
01 January 2004	1.82	4.85
01 February 2004	1.41	5.76
01 March 2004	1.16	5.23
01 April 2004	4.15	3.45
01 May 2004	9.03	5.77
01 June 2004	14.26	2.89
01 July 2004	17.15	4.61
01 August 2004	12.48	7.20
01 September 2004	8.02	6.05
01 October 2004	4.25	3.56
01 November 2004	0.82	8.81
01 December 2004	0.39	11.34
01 January 2005	1.16	5.46
01 February 2005	1.38	10.65
01 March 2005	2.42	7.35

**Appendix 4a. Example Isotra3 input file: Input Wanxiang 20010916\_00 traced**

Reference date 20010916\_0000 / Time range -28800 min

time	lon	lat	p	T	Q	BLH	RH	SST	PS	U10M	TD2M	T2M	SKT
0	105.38	32.6	730	285.54	11.991	2632	97	-999.99	873.364	-0.971	17.161	17.839	291.518
-6	105.34	32.17	768	287.33	12.806	1163	97	-999.99	901.076	-0.732	18.678	19.45	292.179
-12	105.12	31.08	792	289.24	13.269	819	91	-999.99	958.104	-0.776	21.667	24.381	295.979
-18	105.35	29.72	796	290.38	13.324	567	86	-999.99	966.654	-0.2	21.239	26.492	302.429
-24	105.59	28.53	783	289.85	13.038	2418	85	-999.99	931.217	0.302	20.655	21.33	293.471
-30	105.74	27.63	834	290.7	14.673	2007	97	-999.99	880.435	-0.597	19.967	21.159	292.372
-36	106.06	27.03	839	293.28	15.334	2049	86	-999.99	862.489	-1.547	18.215	24.112	293.362
-42	106.46	25.98	861	296.72	15.112	2297	71	-999.99	882.806	1.304	19.341	28.173	302.15
-48	106.53	25.02	793	291.49	11.526	3609	69	-999.99	917.214	-0.772	20.477	21.902	294.769
-54	106.16	24.08	746	286.32	9.993	1190	78	-999.99	920.811	-0.278	20.713	22.228	293.41
-60	106.33	23.08	738	285.66	9.991	919	81	-999.99	934.283	-0.894	21.89	25.868	295.694
-66	106.96	22.43	745	286.94	10.043	718	75	-999.99	964.332	0.029	23.484	29.539	303.281
-72	107.59	22.11	767	287.62	10.628	2536	79	-999.99	982.311	-0.261	23.811	25.429	298.698
-78	108.38	21.67	792	287.84	11.35	553	85	-999.99	998.804	-1.137	24.211	26.79	298.068
-84	109.35	21.5	807	289.16	12.024	163	85	299.95	1003.56	-2.326	24.685	28.014	299.602
-90	110.46	21.54	819	290.39	12.297	788	81	-999.99	1000.189	-2.759	24.475	30.783	304.783
-96	111.37	21.74	920	296.37	15.037	2667	77	-999.99	997.885	-2.181	23.928	26.552	299.957
-102	112.19	21.98	984	298.94	16.933	1617	79	-999.99	996.323	-2.62	24.016	25.859	295.901
-108	112.96	22.01	975	298.6	16.388	741	78	299.93	1004.667	-2.222	24.196	28.195	299.822
-114	113.94	21.81	948	297.65	16.048	442	78	302.04	1007.276	-3.979	23.962	28.848	302.328
-120	115.12	21.7	916	294.76	15.179	1485	85	302.08	1008.75	-4.008	23.552	27.859	302.076
-126	116.01	21.64	983	299.19	16.948	1084	78	302	1008.151	-3.917	23.738	28.085	301.997
-132	116.71	21.14	933	295.9	15.302	880	82	302.1	1008.077	-4.437	22.653	27.934	302.098
-138	117.46	20.65	995	301.02	16.707	438	70	302.17	1008.091	-1.456	24.008	28.085	302.179
-144	117.72	20.46	994	300.61	16.613	1048	71	302.19	1008.212	-0.403	23.674	27.448	302.192
-150	117.78	20.23	969	297.76	17.041	840	84	302.22	1007.159	0.589	23.117	26.129	302.221
-156	117.5	19.8	943	295.66	16.112	487	88	302.24	1007.348	0.804	23.3	26.159	302.259
-162	117.18	19.02	933	295.87	17.42	256	93	302.25	1005.651	0.232	25.31	27.642	302.283
-168	116.66	18.06	956	298.02	18.126	787	87	302.32	1006.602	3.698	26.019	27.731	302.322
-174	115.78	16.88	978	299.81	18.997	625	84	302.3	1007.33	3.46	25.276	27.466	302.302
-180	114.48	15.57	940	298.21	17.52	166	82	302.04	1005.987	3.585	25.963	28.929	302.13
-186	113.18	14.54	960	300.18	18.551	388	79	301.97	1006.744	5.02	28.018	31.355	302.056
-192	111.73	13.71	919	298.65	15.283	1320	68	302.12	1008.462	4.513	26.052	29.162	302.118
-198	109.89	13.42	931	298.37	14.767	415	68	302	1005.154	3.029	25.197	28.856	301.842

-204	108.17	13.2	906	295.96	15.186	1908	78	-999.99	957.807	2.283	23.574	27.672	298.649
-210	106.79	12.81	879	294.44	14.476	571	80	-999.99	989.515	2.486	22.937	31.917	305.668
-216	105.98	12.29	966	302.03	14.753	2615	57	-999.99	1004.112	0.678	24.551	26.363	298.331
-222	105.23	11.66	906	295.09	13.108	684	71	298.26	1007.423	0.48	25.134	26.189	296.608
-228	104.51	10.78	887	293.85	13.353	332	77	-999.99	1001.829	1.148	24.655	27.36	298.01
-234	103.97	10.01	870	292.87	13.906	727	83	301.89	1008.868	2.401	25.135	30.538	302.029
-240	103.56	9.23	888	294.48	14.836	1986	82	302.22	1009.758	1.417	24.159	28.279	302.214
-246	103.31	8.37	998	301.27	17.732	964	73	302.39	1010.584	2.627	23.853	27.31	302.394
-252	102.92	7.66	968	298.94	17.201	150	79	302.54	1009.098	2.436	24.2	28.31	302.546
-258	102.44	7.25	987	301.26	17.017	150	70	302.64	1009.193	2.887	24.907	30.385	302.642
-264	101.91	7	938	298.01	15.639	2382	74	302.61	1007.895	2.676	24.333	26.423	302.603
-270	101.12	6.61	882	292.96	13.218	685	80	-999.99	995.183	1.584	22.928	24.919	298.426
-276	99.94	6.43	872	292.56	13.077	189	80	300.3	1003.734	3.82	24.249	27.289	300.582
-282	98.44	6.54	867	292.54	12.613	724	77	302.48	1009.648	5.39	24.75	30.482	302.44
-288	96.71	6.58	867	292.54	12.409	1354	76	301.9	1010.211	5.612	24.071	27.978	301.898
-294	95.29	6.5	846	290.66	12.041	1057	81	301.51	1009.453	5.38	24.02	26.996	301.506
-300	93.99	6.29	854	291.46	12.507	624	81	301.52	1008.781	5.303	23.371	28.703	301.49
-306	92.68	6.07	859	291.89	12.678	847	80	301.58	1009.678	4.742	23.703	29.092	301.556
-312	91.07	5.66	868	292.15	12.7	918	80	301.82	1009.43	4.455	23.262	27.82	301.817
-318	89.57	4.98	876	292.98	13.147	507	79	301.8	1009.256	5.115	24.237	28.475	301.795
-324	87.64	4.21	871	292.77	12.583	625	76	301.72	1007.619	7.986	23.725	28.155	301.749
-330	85.38	3.38	854	290.85	12.3	381	82	301.66	1010.436	7.923	24.195	28.066	301.71
-336	83.12	2.7	847	290.24	11.245	1054	78	301.43	1008.071	8.36	23.596	27.122	301.429
-342	80.77	2.44	836	290.58	11.539	1110	77	301.61	1010.997	8.009	23.763	27.293	301.611
-348	78.66	2.44	829	289.69	12.077	1045	84	302.11	1008.325	7.753	23.871	27.087	302.122
-354	76.75	2.83	831	289.91	12.064	1005	83	302.48	1011.366	7.848	24.409	25.757	302.457
-360	74.89	3.71	815	289.38	10.483	1146	73	302.42	1009.335	8.584	24.13	26.905	302.42
-366	73.22	5.07	781	286.53	9.7	1689	78	302.21	1011.535	6.074	24.316	27.34	302.204
-372	71.4	6.64	777	286.65	9.469	1345	76	301.94	1008.305	7.415	24.737	28.533	301.994
-378	69.45	8.06	782	287.56	9.393	1201	71	301.96	1010.656	7.881	24.203	28.975	302.002
-384	67.33	9.16	787	287.62	9.3	1270	71	301.92	1009.244	7.435	23.483	27.891	301.919
-390	65.03	9.71	778	287.11	7.842	1384	61	301.49	1011.837	7.989	23.547	27.61	301.496
-396	62.52	9.88	762	286.8	6.572	805	51	300.58	1008.845	7.862	23.512	26.975	300.608
-402	59.8	9.39	759	287.1	6.384	1038	48	299.76	1012.148	7.122	23.619	27.134	299.834
-408	57.08	8.38	751	285.96	6.207	964	50	299.17	1009.026	7.053	22.961	25.625	299.17
-414	54.69	7.19	736	284.64	5.862	814	50	298.59	1011.155	6.36	23.314	25.6	298.589
-420	52.51	5.98	735	285.17	5.346	1149	44	298.61	1010	6.355	22.819	25.636	298.553
-426	50.48	4.65	723	284.42	4.581	655	39	298.38	1014.014	5.871	22.522	25.382	298.322
-432	48.87	3.48	718	283.91	4.505	324	40	298.34	1011.831	5.695	21.644	24.932	298.338



-438	47.59	2.24	709	282.51	4.341	738	41	298.43	1012.804	3.37	21.521	25.189	298.436
-444	46.66	1.15	713	283.34	4.314	835	39	298.39	1012.464	2.808	20.769	25.389	298.38
-450	45.84	0.18	699	282.1	3.986	859	39	298.31	1015.691	-0.019	20.602	25.274	298.27
-456	45	-0.38	696	282.21	4.102	810	39	298.23	1013.229	-1.312	21.29	24.823	298.231
-462	44.3	-1.03	697	282.83	3.347	976	31	298.23	1014.417	-0.733	21.533	24.914	298.227
-468	43.69	-1.94	671	280.86	3.149	973	32	298.35	1014.44	-0.055	21.439	25.617	298.296
-474	43.16	-2.86	645	278.71	2.422	1302	27	298.43	1016.729	-1.399	20.819	25.841	298.38
-480	42.62	-3.38	643	278.97	2.197	1504	24	298.46	1014.764	-2.261	20.793	24.684	298.463

**Appendix 4b. Example Isotra3 output file: Output Wanxiang 20010916 00 traced iso GNIP rain**

Reference date 20010916\_0000 / Time range -28800 min

time	lon	lat	p	T	Q	BLH	RH	SST	PS	U10M	TD2M	T2M	SKT
0	104.24	33.34	611	278.32	8.771	4891	97	-999.99	738.204	-1.781	11.624	12.45	286.617
-6	104.76	33.04	730	285.18	11.59	2213	96	-999.99	795.4	-1.441	14.347	15.073	288.708
-12	104.94	32.51	767	287.24	12.156	1533	92	-999.99	853.774	-1.132	17.95	19.235	291.038
-18	104.97	31.8	799	288.05	13.066	1748	98	-999.99	910.653	-1.327	18.489	23.029	298.248
-24	104.98	31.23	880	291.49	13.927	2047	92	-999.99	949.271	-0.426	19.296	20.02	292.744
-30	105.02	31.11	909	291.51	13.553	917	93	-999.99	957.804	-0.472	18.951	21.125	292.795
-36	105.47	31.58	884	291.82	12.944	1066	84	-999.99	937.23	-0.801	18.958	20.573	293.369
-42	105.89	31.94	922	292.9	14.018	1149	89	-999.99	930.713	-2.526	18.196	20.23	294.027
-48	106.48	31.92	855	288.84	12.543	1555	96	-999.99	930.298	-0.956	18.166	18.599	290.967
-54	107.06	31.49	879	290.74	12.038	1091	84	-999.99	941.911	-1.177	17.967	18.973	290.951
-60	107.72	30.84	876	292.09	11.233	827	71	-999.99	942.282	-1.383	18.242	20.161	291.817
-66	108.42	30.18	850	290.01	11.157	1954	78	-999.99	913.548	-1.524	16.486	20.666	294.931
-72	109.02	29.79	883	292.45	10.719	2737	67	-999.99	904.818	-1.578	16.684	18.262	292.181
-78	109.43	29.38	848	289.29	10.557	1293	77	-999.99	922.246	-1.356	16.176	20.091	292.356
-84	110.17	28.88	870	291.57	10.373	734	68	-999.99	954.469	-1.703	17.07	25.218	295.828
-90	111.11	28.76	919	295.94	10.392	1197	55	-999.99	972.999	-1.868	15.912	29.202	303.995
-96	111.75	28.81	954	298.52	10.308	3583	48	-999.99	994.706	-0.885	17.278	22.079	296.966
-102	112.32	28.96	804	284.98	7.987	300	74	-999.99	1003.418	-0.702	17.147	22.626	292.878
-108	112.57	29.09	796	284.93	7.497	178	69	-999.99	1003.442	-0.82	16.385	26.914	295.793
-114	113.21	29.27	797	285.22	7.07	315	64	-999.99	1000.514	-0.725	15.475	30.613	308.585
-120	113.71	29.69	828	285.77	8.47	3472	76	-999.99	1000.904	-1.554	16.603	22.11	297.57
-126	114.09	30.35	908	290.86	8.998	536	64	-999.99	1003.508	-1.246	15.641	21.851	293.652
-132	114.92	30.93	895	290.18	9.086	438	66	-999.99	991.694	-1.398	15.034	24.621	296.13
-138	116.04	31.74	877	288.55	8.787	532	70	-999.99	990.528	-1.265	14.387	27.345	304.465
-144	116.68	32.93	882	288.31	8.71	3070	71	-999.99	1011.881	-1.686	16.502	22.145	297.356
-150	117.56	34.15	840	285.42	5.653	1316	53	-999.99	1009.332	-1.471	16.197	21.506	293.916
-156	118.98	35.91	828	284.68	5.668	878	55	-999.99	996.089	-0.657	16.643	21.293	293.116
-162	120.27	38.03	802	282.85	4.941	1200	52	298.34	1011.933	-2.831	19.294	24.407	298.29
-168	121.47	40.03	781	280.39	5.198	1540	63	296.2	1011.185	-2.279	18.719	20.887	296.209
-174	122.6	41.54	778	279.56	5.985	718	77	-999.99	1003.027	-0.434	17.489	18.007	288.624
-180	123.46	42.29	815	283.35	6.811	288	71	-999.99	997.879	-0.112	17.937	20.935	292.084
-186	123.58	42.52	828	285.21	7.008	380	66	-999.99	995.381	1.005	14.905	26.438	300.828
-192	123.45	42	857	286.95	8.695	2372	75	-999.99	998.539	-0.705	14.487	19.258	293.624
-198	123.34	41.17	887	288.35	9.831	759	80	-999.99	991.456	-1.404	14.035	16.905	288.257

-204	123.58	40.04	908	289.72	10.423	326	80	-999.99	999.076	-1.624	16.764	21.721	291.516
-210	124.71	39.09	919	291.76	10.657	154	73	298.42	1010.093	-2.79	17.826	26.903	299.238
-216	126.12	38.84	841	286.3	9.836	3595	87	-999.99	991.218	-2.556	18.132	21.48	296.171
-222	127.26	39.14	856	285.67	8.969	1502	84	-999.99	971.118	-1.728	17.263	18.263	290.819
-228	128.22	39.87	950	290.71	11.297	588	85	293.38	975.513	-1.852	16.916	19.089	291.522
-234	129.03	40.92	900	287.88	11.166	1561	95	-999.99	929.27	-2.254	17.036	18.603	292.485
-240	129.53	41.81	912	288.98	11.562	1819	93	-999.99	944.572	-0.335	16.428	17.341	290.66
-246	129.61	42.11	929	288.85	11.407	1279	94	-999.99	945.932	0.469	15.715	16.749	287.269
-252	129.28	42.2	868	286.08	10.197	1727	94	-999.99	927.584	-0.266	15.527	17.783	288.72
-258	128.76	41.84	894	288.53	10.683	2001	87	-999.99	901.378	1.213	13.78	23.247	295.415
-264	128.26	41.08	865	289.83	9.523	4497	69	-999.99	888.099	0.509	13.985	15.116	289.211
-270	127.88	40.53	844	285.93	9.197	2352	84	-999.99	917.469	0.429	14.749	15.227	287.197
-276	127.59	40.17	882	288.67	11.002	753	87	-999.99	942.418	-0.434	17.818	19.162	290.148
-282	127.51	39.73	898	289.76	12.098	750	91	294.02	960.247	-0.178	19.501	23.17	295.547
-288	127.46	39.28	902	290.94	12.079	1854	85	295.07	975.325	-1.307	18.072	20.34	295.07
-294	127.52	38.97	840	287.06	10.28	1524	86	-999.99	985.017	-1.48	18.357	19.446	293.691
-300	127.61	39.16	836	287.42	10.117	186	83	296.28	982.959	-1.408	19.012	21.87	294.35
-306	127.59	39.43	828	286.88	9.943	493	83	295.77	974.1	-1.139	18.368	26.648	299.087
-312	127.76	39.62	792	285.32	8.153	2623	72	295.45	975.502	-0.886	17.424	19.755	295.451
-318	127.98	40.18	892	288.54	10.707	670	87	-999.99	955.206	-0.199	15.819	16.504	288.321
-324	127.78	40.56	854	287.54	9.528	1653	79	-999.99	920.208	-0.498	16.412	17.902	287.71
-330	127.55	40.68	800	284.73	8.327	2494	78	-999.99	909.559	-0.108	15.073	23.15	296.268
-336	127.22	41.04	620	270.56	4.376	5356	86	-999.99	894.647	-0.654	10.845	15.925	293.952
-342	127.24	41.48	778	283.45	6.29	980	62	-999.99	905.579	-0.598	10.973	12.124	283.345
-348	127.1	42.07	775	283.34	6.256	912	62	-999.99	926.291	-2.119	13.729	17.944	288.39
-354	127.05	42.45	768	282.99	6.323	851	64	-999.99	937.043	0.309	13.121	26.36	299.45
-360	127.06	42.97	719	278.44	4.938	3887	63	-999.99	952.253	0.107	14.35	17.465	294.448
-366	127.31	43.69	687	275.46	4.472	937	68	-999.99	958.403	0.24	13.481	16.245	285.247
-372	127.31	44.72	682	275.13	4.578	424	71	-999.99	975.068	0.779	16.623	21.65	289.291
-378	127.2	46.03	675	274.88	4.996	379	78	-999.99	990.962	2.59	16.28	29.021	303.066
-384	125.94	47.78	669	274.36	4.915	2487	79	-999.99	984.01	-1.539	15.375	19.414	295.048
-390	123.87	49.09	667	274.15	4.953	1032	80	-999.99	965.417	-0.479	14.8	15.577	286.574
-396	121.67	49.87	675	275.35	4.902	1111	74	-999.99	916.83	-2.229	12.431	18.59	287.912
-402	119.48	50.2	691	277.8	5.102	763	66	-999.99	932.805	1.668	8.193	30.813	306.032
-408	117.96	50.1	578	267.38	3.167	6320	73	-999.99	929.3	0.869	9.192	16.533	293.542
-414	117.02	50.58	570	265.79	2.32	1056	60	-999.99	919.342	-0.633	9.057	16.204	283.623
-420	115.81	50.98	567	265.95	2.131	912	54	-999.99	925.455	1.654	13.1	20.618	289.039
-426	114.54	51.2	563	266.52	2.004	958	48	-999.99	918.677	3.418	13.53	28.308	301.843
-432	113.29	51.29	563	266.14	2.09	5826	52	-999.99	904.234	2.587	10.5	13.896	289.805

-438	112.17	51.31	555	264.47	2.148	1160	60	-999.99	892.29	1.97	9.598	12.979	284.592
-444	110.94	51.14	548	263.83	2.167	1445	63	-999.99	885.517	1.129	12.455	20.126	288.549
-450	110.04	50.79	547	264.36	2.062	1697	57	-999.99	882.1	1.801	10.869	25.43	299.905
-456	109.42	50.39	538	263.72	0.994	5883	28	-999.99	878.077	-0.774	9.245	12.432	286.94
-462	109.18	50.16	527	262.97	0.498	1506	16	-999.99	873.682	-0.438	9.283	11.55	282.478
-468	108.74	50.08	524	263.1	0.466	1387	15	-999.99	877.372	-0.47	15.058	20.218	287.568
-474	108.92	49.94	516	262.92	0.472	1385	15	-999.99	869.513	1.95	9.912	25.457	299.065
-480	108.39	50.21	494	260.54	0.422	5396	16	-999.99	889.71	-1.641	9.598	11.642	285.192

d18O	d2H	d	height	qexp	RH_sst	d18O_p	d2H_p	d_p	qmiss	d18oce	d2oce	q_land	q_ocean
-12.405	-80.337	18.899	1563.099	8.771	-999.99	-11.525	-83.979	8.223	-999.99	-1.819	-14.553	26.578	4.723
-12.148	-81.255	15.928	720.417	11.59	-999.99	-11.325	-85.101	5.497	-999.99	-1.747	-13.98	26.578	4.723
-12.097	-81.347	15.432	906.809	12.156	-999.99	-11.292	-85.253	5.082	-999.99	-1.646	-13.171	26.578	4.723
-12.029	-81.547	14.687	1121.91	13.066	-999.99	-11.248	-85.533	4.454	-999.99	-1.52	-12.16	26.578	4.723
-11.97	-81.725	14.035	647.693	13.927	-999.99	-999.99	0	-999.99	-999.99	-1.42	-11.359	26.578	4.723
-12.012	-81.99	14.11	447.092	13.553	-999.99	-999.99	0	-999.99	-999.99	-1.397	-11.178	26.204	4.723
-12.105	-82.603	14.238	500.627	12.944	-999.99	-11.355	-86.687	4.155	-999.99	-1.46	-11.68	25.595	4.723
-12.038	-82.867	13.435	80.769	14.018	-999.99	-999.99	0	-999.99	-999.99	-1.507	-12.056	25.595	4.723
-12.283	-84.587	13.677	716.003	12.543	-999.99	-999.99	0	-999.99	-999.99	-1.479	-11.834	24.12	4.723
-12.349	-85.006	13.783	588.304	12.038	-999.99	-999.99	0	-999.99	-999.99	-1.377	-11.013	23.615	4.723
-12.492	-85.976	13.964	623.121	11.233	-999.99	-999.99	0	-999.99	-999.99	-1.23	-9.838	22.81	4.723
-12.503	-86.046	13.981	617.03	11.157	-999.99	-999.99	0	-999.99	-999.99	-1.078	-8.624	22.734	4.723
-12.617	-86.853	14.085	208.796	10.719	-999.99	-999.99	0	-999.99	-999.99	-0.98	-7.839	22.296	4.723
-12.657	-87.124	14.128	714.252	10.557	-999.99	-999.99	0	-999.99	-999.99	-0.886	-7.089	22.134	4.723
-12.706	-87.475	14.175	796.339	10.373	-999.99	-999.99	0	-999.99	-999.99	-0.763	-6.103	21.95	4.723
-12.7	-87.424	14.176	501.145	10.392	-999.99	-999.99	0	-999.99	-999.99	-0.7	-5.599	21.95	4.723
-12.722	-87.575	14.2	364.035	10.308	-999.99	-999.99	0	-999.99	-999.99	-0.683	-5.463	21.866	4.723
-13.667	-94.352	14.986	1873.155	7.987	-999.99	-999.99	0	-999.99	-999.99	-0.689	-5.511	19.545	4.723
-13.207	-90.657	14.999	1967.5	7.497	-999.99	-999.99	0	-999.99	-999.99	-0.704	-5.632	19.545	4.723
-12.729	-86.829	14.999	1974.741	7.07	-999.99	-999.99	0	-999.99	-999.99	-0.717	-5.734	19.545	4.723
-12.718	-86.744	14.999	1618.37	8.47	-999.99	-999.99	0	-999.99	-999.99	-0.783	-6.264	19.545	4.723
-12.709	-86.672	14.999	855.297	8.998	-999.99	-999.99	0	-999.99	-999.99	-0.903	-7.226	19.545	4.723
-12.704	-86.629	15.001	880.023	9.086	-999.99	-999.99	0	-999.99	-999.99	-0.998	-7.987	19.545	4.723
-12.547	-85.333	15.043	1055.932	8.787	-999.99	-999.99	0	-999.99	-999.99	-1.133	-9.065	19.545	4.723
-12.568	-85.465	15.076	1177.044	8.71	-999.99	-999.99	0	-999.99	-999.99	-1.33	-10.642	19.468	4.723
-13.422	-90.006	17.368	1556.483	5.653	-999.99	-999.99	0	-999.99	-999.99	-1.483	-11.866	16.411	4.723
-13.414	-89.941	17.372	1562.33	5.668	-999.99	-999.99	0	-999.99	-999.99	-1.569	-12.553	16.411	4.723
-12.431	-81.753	17.693	1976.474	4.941	69.618	-999.99	0	-999.99	-999.99	-1.574	-12.591	16.411	4.723
-12.42	-81.662	17.696	2178.547	5.198	76.449	-999.99	0	-999.99	-999.99	-1.605	-12.843	16.411	4.723
-12.408	-81.565	17.699	2111.769	5.985	-999.99	-999.99	0	-999.99	-999.99	-1.572	-12.574	16.411	4.723
-12.396	-81.465	17.701	1704.274	6.811	-999.99	-999.99	0	-999.99	-999.99	-1.491	-11.926	16.411	4.723
-12.385	-81.377	17.705	1578.261	7.008	-999.99	-999.99	0	-999.99	-999.99	-1.489	-11.909	16.411	4.723
-12.375	-81.293	17.709	1298.349	8.695	-999.99	-999.99	0	-999.99	-999.99	-1.467	-11.735	16.411	4.723
-12.366	-81.218	17.713	939.182	9.831	-999.99	-999.99	0	-999.99	-999.99	-1.419	-11.351	16.411	4.723

-12.359	-81.151	17.718	812.869	10.423	-999.99	-999.99	0	-999.99	-999.99	-1.315	-10.523	16.411	4.723
-12.352	-81.094	17.722	817.185	10.657	63.149	-999.99	0	-999.99	-999.99	-1.131	-9.047	16.411	4.723
-12.09	-80.123	16.596	1400.413	9.836	-999.99	-999.99	0	-999.99	-999.99	-0.844	-6.751	16.411	3.902
-12.141	-79.97	17.16	1064.226	8.969	-999.99	-11.344	-83.918	6.835	-999.99	-0.57	-4.559	15.544	3.902
-11.951	-80.826	14.78	225.754	11.297	81.139	-999.99	0	-999.99	-999.99	-0.378	-3.026	15.544	3.902
-11.977	-80.725	15.089	271.754	11.166	-999.99	-11.184	-84.69	4.779	-999.99	-0.337	-2.699	15.544	3.771
-11.942	-80.806	14.731	297.603	11.562	-999.99	-999.99	0	-999.99	-999.99	-0.342	-2.74	15.544	3.771
-11.966	-80.951	14.778	152.247	11.407	-999.99	-999.99	0	-999.99	-999.99	-0.362	-2.895	15.389	3.771
-12.224	-82.605	15.183	558.343	10.197	-999.99	-11.416	-86.511	4.819	-999.99	-0.405	-3.241	14.179	3.771
-12.178	-82.72	14.702	70.216	10.683	-999.99	-999.99	0	-999.99	-999.99	-0.434	-3.472	14.179	3.771
-12.502	-84.92	15.093	223.265	9.523	-999.99	-999.99	0	-999.99	-999.99	-0.441	-3.531	13.019	3.771
-12.573	-85.35	15.235	699.9	9.197	-999.99	-11.766	-89.244	4.885	-999.99	-0.469	-3.751	12.693	3.771
-12.421	-85.99	13.381	561.106	11.002	-999.99	-11.638	-89.964	3.138	-999.99	-0.507	-4.058	12.693	3.771
-12.341	-86.317	12.409	573.918	12.098	91.836	-999.99	0	-999.99	-999.99	-0.508	-4.066	12.693	3.771
-12.346	-86.315	12.452	670.09	12.079	78.647	-999.99	0	-999.99	-999.99	-0.519	-4.15	12.693	3.752
-13.213	-92.123	13.578	1353.14	10.28	-999.99	-999.99	0	-999.99	-999.99	-0.514	-4.111	12.693	1.953
-13.292	-92.707	13.63	1378.334	10.117	77.488	-999.99	0	-999.99	-999.99	-0.491	-3.93	12.693	1.79
-13.179	-91.814	13.619	1392.959	9.943	76.76	-999.99	0	-999.99	-999.99	-0.487	-3.9	12.693	1.79
-15.223	-108.293	13.49	1770.565	8.153	73.731	-14.415	-112.084	3.232	-999.99	-0.456	-3.65	12.693	0
-14.997	-109.281	10.694	577.772	10.707	-999.99	-999.99	0	-999.99	-999.99	-0.436	-3.489	12.693	0
-15.561	-113.847	10.637	628.457	9.528	-999.99	-999.99	0	-999.99	-999.99	-0.489	-3.909	11.514	0
-16.362	-120.356	10.54	1090.888	8.327	-999.99	-999.99	0	-999.99	-999.99	-0.537	-4.298	10.313	0
-19.643	-145.734	11.408	3027.048	4.376	-999.99	-18.719	-148.987	0.767	-999.99	-0.63	-5.04	6.362	0
-19.301	-146.867	7.542	1259.204	6.29	-999.99	-999.99	0	-999.99	-999.99	-0.654	-5.23	6.362	0
-19.338	-147.188	7.518	1491.646	6.256	-999.99	-999.99	0	-999.99	-999.99	-0.737	-5.895	6.328	0
-19.335	-147.171	7.508	1694.841	6.323	-999.99	-999.99	0	-999.99	-999.99	-0.782	-6.256	6.328	0
-21.111	-161.937	6.949	2354.444	4.938	-999.99	-999.99	0	-999.99	-999.99	-0.841	-6.73	4.943	0
-21.736	-167.111	6.776	2731.004	4.472	-999.99	-999.99	0	-999.99	-999.99	-0.885	-7.081	4.477	0
-21.731	-167.086	6.763	2951.434	4.578	-999.99	-999.99	0	-999.99	-999.99	-1.04	-8.32	4.477	0
-21.726	-167.06	6.751	3244.181	4.996	-999.99	-999.99	0	-999.99	-999.99	-1.29	-10.32	4.477	0
-21.827	-167.909	6.709	3213.11	4.915	-999.99	-999.99	0	-999.99	-999.99	-1.876	-15.007	4.396	0
-21.821	-167.874	6.697	3033.068	4.953	-999.99	-999.99	0	-999.99	-999.99	-2.549	-20.393	4.396	0
-21.765	-167.537	6.58	2523.071	4.902	-999.99	-999.99	0	-999.99	-999.99	-3.098	-24.786	4.396	0
-21.759	-167.502	6.567	2561.087	5.102	-999.99	-999.99	0	-999.99	-999.99	-3.49	-27.919	4.396	0
-24.51	-188.695	7.382	3894.245	3.167	-999.99	-999.99	0	-999.99	-999.99	-3.66	-29.282	2.461	0
-25.481	-194.817	9.032	3841.198	2.32	-999.99	-999.99	0	-999.99	-999.99	-3.854	-30.835	1.614	0
-25.043	-192.137	8.209	3975.913	2.131	-999.99	-999.99	0	-999.99	-999.99	-4.042	-32.338	1.614	0
-24.688	-189.94	7.561	4066.571	2.004	-999.99	-999.99	0	-999.99	-999.99	-4.182	-33.452	1.614	0
-24.68	-189.891	7.546	3851.631	2.09	-999.99	-999.99	0	-999.99	-999.99	-4.278	-34.227	1.614	0

-24.672	-189.842	7.533	3812.688	2.148	-999.99	-999.99	0	-999.99	-999.99	-4.344	-34.751	1.614	0
-24.663	-189.789	7.518	3875.85	2.167	-999.99	-999.99	0	-999.99	-999.99	-4.378	-35.025	1.614	0
-24.318	-187.606	6.934	3939.833	2.062	-999.99	-999.99	0	-999.99	-999.99	-4.368	-34.947	1.614	0
-28.815	-220.481	10.037	3944.433	0.994	-999.99	-999.99	0	-999.99	-999.99	-4.34	-34.721	0.546	0
-32.751	-243.645	18.362	4032.512	0.498	-999.99	-999.99	0	-999.99	-999.99	-4.318	-34.546	0.05	0
-32.819	-244.257	18.297	4150.055	0.466	-999.99	-999.99	0	-999.99	-999.99	-4.324	-34.59	0.05	0
-32.821	-244.268	18.296	4284.73	0.472	-999.99	-999.99	0	-999.99	-999.99	-4.299	-34.389	0.05	0
-33.782	-249.946	20.309	4694.607	0.422	-999.99	-999.99	0	-999.99	-999.99	-4.353	-34.822	0	0

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**Appendix 5. Initial and arrival conditions diagnosed for sampled precipitation events**

Date	ECHAM4 $\delta^{18}\text{O}$ (‰ VSMOW)	Pin (hPa)	Tin (°C)	Initial			Arrival	
				Rel. humidity (%)	Lapse rate (°C km <sup>-1</sup> )	u10 wind (m s <sup>-1</sup> )	Parr (hPa)	Tin (°C)
16/09/2001	-8.92	949.851	23.595	0.753	-4.642	4.361	658.439	7.399
18/09/2001	-8.92	952.858	22.959	0.726	-4.514	1.671	650.330	6.774
15/10/2001	-7.80	948.727	18.488	0.724	-5.463	6.682	596.041	-4.756
20/10/2001	-7.96	919.468	13.540	0.756	-3.150	6.682	752.680	5.863
23/11/2001	-15.70	921.215	9.240	0.682	-3.310	1.197	728.401	0.313
10/12/2001	-13.87	932.891	-1.511	0.757	-1.373	1.976	786.828	-4.369
20/12/2001	-14.93	942.167	13.301	0.695	-6.754	6.682	552.620	-19.305
30/12/2001	-20.42	913.703	5.160	0.657	-5.534	0.310	715.486	-10.548
10/01/2002	-19.40	957.288	10.615	0.668	-8.245	6.682	884.862	1.317
20/01/2002	-23.97	960.959	17.229	0.667	-7.020	1.730	487.836	-23.157
10/02/2002	-29.73	971.082	19.261	0.535	-7.254	0.739	496.441	-21.544
20/02/2002	-29.25	917.744	9.849	0.696	-5.424	2.074	662.554	-8.814
28/02/2002	-31.19	939.468	10.932	0.646	-6.361	0.192	662.302	-10.973
10/03/2002	-21.15	928.517	11.876	0.625	-4.114	6.682	725.473	0.649
20/03/2002	-21.15	957.739	17.211	0.619	-6.479	6.682	622.734	-8.185
10/04/2002	-13.22	916.090	6.875	0.682	-4.100	5.254	590.366	-10.870
20/04/2002	-14.29	948.297	11.715	0.768	-1.575	6.682	836.071	9.209
30/04/2002	-14.48	939.290	15.781	0.726	-4.130	6.682	685.082	2.650
08/05/2002	-11.97	952.858	15.686	0.792	-3.860	4.897	696.403	3.907
20/05/2002	-11.37	932.377	18.925	0.707	-4.948	1.189	609.250	-1.303
29/05/2002	-11.37	889.248	11.852	0.712	-3.023	3.082	584.000	-1.480
09/06/2002	-6.78	874.466	18.161	0.596	-2.834	6.682	700.254	9.638
10/06/2002	-6.92	895.877	18.778	0.625	-3.819	6.682	627.530	4.035
30/06/2002	-11.16	910.568	21.316	0.590	-1.476	2.105	832.073	18.910
21/07/2002	-10.14	896.072	22.092	0.619	-4.368	6.682	640.363	5.910
30/07/2002	-10.41	948.952	23.909	0.758	-4.023	5.111	705.841	12.060
13/08/2002	-11.51	942.426	22.051	0.759	-4.745	8.080	717.747	8.701
20/08/2002	-8.88	986.771	25.572	0.746	-5.535	0.130	617.066	3.487
31/08/2002	-9.01	916.995	23.832	0.634	-3.711	6.682	725.750	13.715
10/09/2002	-7.14	969.877	23.686	0.692	-5.042	6.682	682.509	7.506
20/10/2002	-9.95	936.535	16.440	0.681	-5.500	6.682	660.415	-2.622
30/10/2002	-10.18	940.018	12.968	0.746	-4.790	6.682	650.770	-4.181
10/11/2002	-18.76	888.821	12.732	0.688	-3.476	0.284	709.778	2.645
20/11/2002	-15.56	938.865	16.664	0.667	-6.582	3.437	499.701	-20.040
30/11/2002	-14.19	920.267	9.003	0.584	-3.580	0.393	772.252	1.014

10/12/2002	-17.09	983.450	21.002	0.646	-7.505	6.682	397.513	-33.233
20/12/2002	-14.01	946.642	6.597	0.756	-4.234	6.682	752.809	-3.714

**Appendix 6. ECHAM4-MCIM pseudoproxy data**

NB: Isotope ratios reported relative to VSMOW.

Date	DJF source location			JJA source location			Composite $\delta^{18}\text{O}$ (‰)	Rainfall (mm)	Wanxiang Cave		
	Tin (°C)	Q_land	$\delta^{18}\text{O}$ (‰)	Tin (°C)	Q_land	$\delta^{18}\text{O}$ (‰)			T (°C)	Et (mm)	Predicted Ca
1870.00	15.96	19.35	-1.87	16.92	20.06	-2.37	-2.12	14.16	14.89	8.68	1.78
1870.08	16.27	19.58	-3.90	17.05	20.16	-3.94	-3.92	10.67	15.21	5.11	1.76
1870.17	16.32	19.62	-4.17	17.43	20.44	-4.57	-4.37	22.00	15.52	14.92	1.73
1870.25	15.23	18.81	-7.96	16.27	19.58	-7.82	-7.89	31.29	14.27	24.43	1.83
1870.33	13.20	17.32	-9.48	14.20	18.05	-9.86	-9.67	60.50	12.49	54.04	1.97
1870.42	12.19	16.57	-9.35	13.31	17.40	-10.49	-9.93	61.11	12.03	54.91	2.01
1870.50	11.63	16.16	-10.24	12.88	17.08	-11.84	-11.06	61.52	11.04	55.88	2.10
1870.58	11.16	15.81	-8.56	12.41	16.73	-9.38	-8.98	39.41	10.59	34.44	2.15
1870.67	10.41	15.26	-6.47	11.79	16.27	-7.41	-6.96	27.01	10.01	22.93	2.20
1870.75	11.73	16.23	-3.68	12.81	17.03	-4.41	-4.05	17.73	11.06	13.45	2.11
1870.83	13.64	17.64	-4.34	14.50	18.27	-5.06	-4.71	13.69	12.90	9.19	1.96
1870.92	14.97	18.62	-3.86	16.00	19.38	-4.56	-4.22	10.95	13.97	6.08	1.86
1871.00	16.32	19.62	-3.13	17.15	20.23	-3.55	-3.34	12.03	15.33	6.44	1.75
1871.08	16.82	19.99	-4.20	17.49	20.48	-4.32	-4.26	17.48	15.52	11.86	1.73
1871.17	16.92	20.06	-3.23	17.45	20.45	-3.34	-3.29	14.29	15.41	7.38	1.74
1871.25	15.66	19.13	-5.91	16.64	19.85	-6.12	-6.02	29.45	14.68	22.47	1.80
1871.33	14.72	18.44	-9.20	15.87	19.29	-9.77	-9.49	60.12	14.02	52.79	1.84
1871.42	13.26	17.36	-10.17	14.49	18.27	-12.20	-11.21	54.22	12.14	48.10	2.01
1871.50	11.61	16.14	-10.86	12.77	17.00	-11.26	-11.07	59.45	11.05	53.96	2.10
1871.58	10.92	15.64	-8.59	12.07	16.48	-9.14	-8.87	31.57	10.60	26.74	2.15
1871.67	11.76	16.25	-6.56	12.83	17.04	-7.33	-6.95	34.47	11.34	29.81	2.08
1871.75	12.06	16.48	-4.38	12.86	17.06	-5.09	-4.74	15.21	11.35	10.91	2.09
1871.83	14.04	17.93	-4.38	14.92	18.59	-5.16	-4.78	10.02	12.87	5.63	1.96
1871.92	14.85	18.53	-3.03	15.52	19.03	-3.37	-3.20	16.33	13.84	11.61	1.87
1872.00	16.21	19.54	-2.06	16.90	20.05	-2.43	-2.25	16.64	14.89	11.27	1.78
1872.08	16.19	19.52	-2.86	17.17	20.24	-3.33	-3.10	18.98	14.95	13.65	1.78
1872.17	17.49	20.48	-3.78	17.99	20.85	-3.92	-3.85	44.58	15.69	37.53	1.71
1872.25	15.86	19.28	-6.74	16.49	19.74	-6.90	-6.82	24.04	14.73	17.05	1.80
1872.33	14.62	18.36	-8.29	15.31	18.87	-8.39	-8.34	52.71	13.74	45.60	1.87
1872.42	13.40	17.46	-11.99	14.72	18.43	-11.90	-11.94	131.99	12.55	125.63	1.95
1872.50	12.13	16.53	-11.09	13.03	17.19	-11.53	-11.31	70.37	11.70	64.48	2.04
1872.58	11.49	16.05	-11.16	12.25	16.62	-11.46	-11.31	68.75	11.09	63.64	2.09
1872.67	11.93	16.38	-6.54	12.80	17.02	-6.98	-6.76	30.71	11.25	26.13	2.09
1872.75	12.33	16.68	-4.08	13.28	17.37	-5.11	-4.61	13.75	11.56	9.37	2.07

1872.83	13.93	17.85	-4.32	14.88	18.56	-4.89	-4.61	7.89	13.03	3.44	1.95
1872.92	15.36	18.91	-3.99	16.06	19.42	-4.41	-4.20	8.11	13.95	3.36	1.87
1873.00	17.73	20.66	-1.84	18.08	20.91	-2.40	-2.12	9.13	15.78	3.41	1.71
1873.08	18.17	20.98	-2.94	18.86	21.49	-3.19	-3.07	24.38	16.87	18.19	1.61
1873.17	16.78	19.96	-4.70	17.76	20.68	-5.08	-4.89	13.05	15.77	6.04	1.71
1873.25	15.69	19.15	-6.99	16.52	19.77	-7.34	-7.17	45.44	14.97	38.39	1.77
1873.33	15.27	18.84	-9.74	16.37	19.66	-9.38	-9.56	97.62	14.35	90.19	1.80
1873.42	13.35	17.43	-10.62	14.47	18.25	-10.60	-10.61	106.53	12.83	100.08	1.93
1873.50	11.81	16.29	-11.34	12.86	17.06	-12.01	-11.68	64.26	11.13	58.85	2.09
1873.58	11.09	15.76	-8.49	12.09	16.50	-9.23	-8.87	42.68	10.56	38.00	2.15
1873.67	11.44	16.01	-5.34	12.39	16.72	-5.95	-5.65	19.91	11.06	15.52	2.11
1873.75	11.85	16.32	-4.05	13.00	17.17	-4.61	-4.34	10.37	11.23	6.23	2.10
1873.83	13.47	17.52	-4.51	14.55	18.31	-5.33	-4.93	13.02	12.71	8.79	1.97
1873.92	15.08	18.70	-2.61	16.26	19.57	-3.31	-2.97	17.63	14.34	12.78	1.83
1874.00	16.18	19.51	-4.03	17.24	20.30	-4.25	-4.14	18.34	15.26	12.68	1.75
1874.08	16.90	20.04	-2.50	17.75	20.67	-2.96	-2.73	12.00	15.95	6.09	1.69
1874.17	16.48	19.73	-3.87	17.39	20.41	-4.56	-4.22	10.99	15.37	3.99	1.74
1874.25	15.63	19.11	-5.97	16.95	20.08	-5.56	-5.76	36.95	15.07	29.60	1.76
1874.33	13.16	17.28	-9.41	14.09	17.98	-9.92	-9.67	41.05	12.34	34.70	2.00
1874.42	12.13	16.52	-9.53	13.18	17.30	-10.17	-9.86	37.63	11.58	31.72	2.06
1874.50	10.75	15.51	-10.62	11.72	16.23	-11.23	-10.93	52.16	10.58	46.82	2.14
1874.58	10.53	15.35	-8.50	11.48	16.05	-9.22	-8.87	27.55	10.12	22.87	2.19
1874.67	10.36	15.22	-5.39	11.44	16.02	-5.97	-5.69	16.74	9.66	12.85	2.23
1874.75	11.56	16.10	-3.48	12.55	16.84	-4.39	-3.95	15.34	11.30	10.95	2.09
1874.83	13.39	17.46	-5.77	14.50	18.27	-6.33	-6.06	17.27	12.70	12.86	1.97
1874.92	15.33	18.89	-2.42	16.21	19.54	-2.73	-2.58	9.21	13.85	4.40	1.88
1875.00	16.84	20.00	-2.34	17.78	20.69	-2.79	-2.57	11.62	15.76	5.80	1.71
1875.08	17.45	20.45	-3.01	18.23	21.03	-3.61	-3.31	14.17	16.15	8.24	1.68
1875.17	17.03	20.14	-4.65	17.46	20.45	-4.77	-4.71	31.08	16.01	23.80	1.68
1875.25	15.83	19.26	-9.11	16.74	19.93	-9.15	-9.13	42.97	14.85	35.86	1.78
1875.33	15.02	18.66	-9.36	15.86	19.28	-12.06	-10.73	92.72	13.92	85.43	1.84
1875.42	12.16	16.55	-11.35	13.33	17.41	-11.93	-11.65	89.05	11.36	83.43	2.06
1875.50	11.90	16.36	-7.99	12.77	17.00	-8.82	-8.41	42.29	10.82	36.93	2.12
1875.58	10.91	15.63	-8.36	11.84	16.31	-8.67	-8.52	31.68	10.73	26.75	2.14
1875.67	11.04	15.72	-6.18	12.37	16.70	-6.73	-6.46	53.58	10.79	49.20	2.12
1875.75	11.61	16.14	-3.98	12.89	17.09	-4.97	-4.49	12.62	11.01	8.47	2.12
1875.83	13.37	17.44	-3.71	14.28	18.11	-4.08	-3.90	12.40	12.15	8.32	2.02
1875.92	14.82	18.51	-2.00	15.87	19.28	-2.63	-2.32	13.14	13.73	8.46	1.88
1876.00	16.33	19.62	-2.05	17.39	20.40	-2.48	-2.27	20.21	15.26	14.60	1.75

1876.08	16.33	19.62	-3.26	17.35	20.38	-3.94	-3.61	18.26	15.48	12.62	1.73
1876.17	16.22	19.55	-2.90	17.26	20.31	-3.76	-3.34	14.18	15.32	7.27	1.75
1876.25	15.72	19.17	-6.79	16.62	19.84	-7.45	-7.13	30.42	14.70	23.36	1.80
1876.33	14.39	18.20	-7.42	15.28	18.85	-8.05	-7.74	36.24	13.51	29.17	1.90
1876.42	12.20	16.58	-9.87	13.10	17.24	-10.46	-10.17	57.31	11.41	51.59	2.07
1876.50	12.22	16.59	-10.25	13.17	17.29	-10.68	-10.47	57.31	11.67	51.33	2.05
1876.58	11.52	16.08	-8.23	12.43	16.74	-8.76	-8.50	39.02	11.16	33.78	2.10
1876.67	11.25	15.88	-6.45	12.11	16.51	-7.17	-6.82	20.39	10.58	16.07	2.15
1876.75	11.72	16.22	-4.60	12.61	16.88	-5.44	-5.03	13.21	10.90	9.07	2.13
1876.83	13.06	17.21	-4.17	13.90	17.83	-4.56	-4.37	9.88	11.96	5.85	2.04
1876.92	15.76	19.21	-2.96	16.53	19.77	-3.38	-3.17	16.09	14.09	11.21	1.85
1877.00	15.33	18.89	-4.21	16.26	19.57	-4.82	-4.52	15.26	14.33	10.06	1.83
1877.08	15.72	19.18	-4.68	16.76	19.94	-4.54	-4.61	10.65	14.72	5.33	1.80
1877.17	16.83	19.99	-3.52	17.45	20.45	-3.44	-3.48	10.89	15.38	3.90	1.74
1877.25	15.70	19.16	-7.68	16.62	19.84	-7.94	-7.81	39.06	14.60	32.02	1.80
1877.33	14.06	17.95	-8.72	14.86	18.54	-8.79	-8.76	54.56	12.76	47.94	1.95
1877.42	12.35	16.69	-8.96	13.28	17.37	-9.37	-9.17	39.90	11.40	34.14	2.08
1877.50	12.15	16.54	-9.67	13.05	17.20	-10.27	-9.98	50.86	11.02	45.26	2.10
1877.58	10.51	15.33	-8.48	11.49	16.05	-8.85	-8.67	45.83	10.08	41.19	2.19
1877.67	11.29	15.91	-5.35	12.22	16.59	-5.93	-5.65	29.30	10.84	24.81	2.13
1877.75	13.14	17.27	-4.27	13.92	17.85	-4.67	-4.47	16.77	12.24	11.92	2.01
1877.83	14.23	18.08	-2.55	15.09	18.71	-2.85	-2.70	12.06	13.26	7.41	1.92
1877.92	15.78	19.22	-3.19	16.72	19.91	-3.55	-3.37	15.01	14.10	10.10	1.85
1878.00	17.24	20.29	-3.17	18.00	20.86	-3.31	-3.24	16.20	15.78	10.35	1.71
1878.08	18.00	20.85	-2.42	18.69	21.37	-2.92	-2.67	16.96	16.50	10.84	1.64
1878.17	16.97	20.10	-3.52	18.18	20.99	-4.34	-3.94	30.20	15.99	22.91	1.68
1878.25	15.53	19.03	-4.88	16.49	19.75	-5.49	-5.19	23.72	14.96	16.51	1.78
1878.33	13.85	17.80	-8.87	14.88	18.55	-9.98	-9.44	62.42	12.84	55.83	1.94
1878.42	12.84	17.05	-7.82	13.77	17.74	-8.33	-8.08	38.28	11.68	32.41	2.05
1878.50	11.87	16.33	-6.32	12.78	17.01	-6.85	-6.59	28.56	11.07	23.01	2.11
1878.58	10.65	15.43	-7.40	11.74	16.23	-8.17	-7.79	34.25	10.17	29.62	2.18
1878.67	10.66	15.44	-4.52	11.79	16.27	-5.20	-4.87	18.87	10.32	14.72	2.18
1878.75	11.91	16.36	-4.06	13.18	17.30	-5.07	-4.58	14.20	11.04	10.02	2.12
1878.83	13.13	17.27	-2.92	14.32	18.14	-4.14	-3.55	7.88	12.21	3.75	2.02
1878.92	14.65	18.39	-2.89	15.78	19.22	-3.57	-3.24	13.00	13.74	8.30	1.88
1879.00	16.82	19.99	-3.20	17.75	20.67	-3.55	-3.38	17.92	15.70	12.13	1.71
1879.08	16.39	19.67	-1.97	17.26	20.31	-2.12	-2.05	14.27	15.12	8.82	1.76
1879.17	16.62	19.84	-3.99	17.66	20.60	-4.10	-4.05	25.39	15.15	18.61	1.76
1879.25	14.91	18.58	-6.99	15.92	19.32	-7.45	-7.22	45.89	13.94	39.34	1.86

1879.33	14.30	18.12	-9.53	15.33	18.89	-9.65	-9.59	85.24	13.47	78.24	1.88
1879.42	12.96	17.14	-10.45	14.03	17.93	-10.89	-10.67	86.98	12.46	80.61	1.97
1879.50	12.51	16.81	-10.20	13.54	17.57	-10.46	-10.33	74.48	11.63	68.57	2.04
1879.58	11.28	15.90	-11.47	12.18	16.56	-11.65	-11.56	74.58	11.11	69.41	2.09
1879.67	11.56	16.11	-5.44	12.56	16.84	-6.24	-5.85	20.96	11.17	16.36	2.10
1879.75	12.38	16.71	-3.40	13.32	17.40	-4.21	-3.81	14.29	11.79	9.74	2.05
1879.83	13.65	17.65	-3.19	14.60	18.35	-3.56	-3.38	11.38	12.51	7.13	1.99
1879.92	14.79	18.49	-1.64	15.55	19.05	-2.30	-1.97	11.73	13.29	7.24	1.92
1880.00	16.08	19.44	-2.26	16.86	20.02	-2.62	-2.44	13.60	14.71	8.26	1.80
1880.08	16.48	19.73	-0.44	17.84	20.74	-1.27	-0.87	15.44	15.86	9.62	1.70
1880.17	16.78	19.95	-2.93	17.94	20.81	-3.49	-3.22	14.72	15.88	7.48	1.70
1880.25	14.66	18.39	-5.93	15.98	19.36	-8.61	-7.30	19.05	13.82	12.54	1.88
1880.33	14.03	17.93	-8.59	15.02	18.66	-8.79	-8.69	43.77	13.10	36.98	1.93
1880.42	12.61	16.88	-9.86	13.56	17.58	-10.12	-9.99	75.36	12.21	69.12	1.99
1880.50	11.34	15.94	-8.77	12.53	16.82	-9.57	-9.18	39.18	10.83	33.76	2.12
1880.58	10.56	15.37	-7.37	11.85	16.32	-8.04	-7.72	38.46	10.12	33.85	2.19
1880.67	11.61	16.14	-6.00	12.72	16.96	-6.58	-6.30	26.30	11.20	21.66	2.10
1880.75	12.44	16.76	-5.35	13.29	17.38	-6.08	-5.72	14.63	11.44	10.23	2.08
1880.83	13.45	17.50	-3.95	14.47	18.25	-4.57	-4.27	9.67	12.80	5.26	1.97
1880.92	15.06	18.69	-3.01	15.93	19.33	-3.53	-3.27	12.41	14.16	7.51	1.85
1881.00	16.65	19.86	-1.68	17.49	20.48	-2.15	-1.92	20.51	15.35	14.95	1.74
1881.08	16.55	19.79	-4.11	17.49	20.48	-4.28	-4.20	19.51	15.21	14.08	1.75
1881.17	16.66	19.87	-3.33	17.58	20.54	-4.10	-3.72	11.31	15.96	4.12	1.69
1881.25	15.33	18.88	-4.86	16.25	19.56	-5.45	-5.16	22.92	14.33	16.22	1.83
1881.33	14.41	18.21	-8.31	15.70	19.16	-10.24	-9.30	56.02	13.93	48.81	1.85
1881.42	12.74	16.98	-9.95	13.85	17.80	-10.63	-10.30	73.30	11.88	67.41	2.02
1881.50	11.85	16.32	-7.63	12.87	17.07	-8.32	-7.98	40.87	11.55	35.11	2.06
1881.58	11.04	15.73	-7.78	12.20	16.58	-8.48	-8.14	24.87	10.65	20.07	2.15
1881.67	12.08	16.49	-6.44	13.01	17.18	-6.87	-6.66	29.74	11.61	24.99	2.06
1881.75	13.13	17.27	-3.56	14.02	17.92	-4.36	-3.97	11.58	12.30	6.84	2.01
1881.83	14.26	18.10	-4.94	15.19	18.78	-5.09	-5.02	23.42	13.14	18.95	1.93
1881.92	15.24	18.82	-4.65	16.31	19.61	-5.16	-4.91	18.72	14.04	13.96	1.86
1882.00	16.98	20.11	-2.86	17.65	20.60	-3.21	-3.04	10.90	15.45	5.31	1.74
1882.08	16.97	20.10	-2.25	17.96	20.82	-2.75	-2.50	21.28	15.88	15.56	1.70
1882.17	16.95	20.08	-4.27	18.15	20.97	-7.23	-5.78	25.20	15.66	18.23	1.71
1882.25	16.08	19.44	-7.52	17.21	20.27	-8.55	-8.05	53.47	15.21	46.24	1.74
1882.33	15.39	18.93	-10.25	16.40	19.67	-10.10	-10.17	111.33	14.45	103.79	1.79
1882.42	13.44	17.49	-10.90	14.53	18.30	-10.97	-10.94	69.28	12.51	63.02	1.97
1882.50	12.71	16.96	-10.10	13.84	17.79	-9.88	-9.99	53.34	11.76	47.48	2.04



1882.58	11.11	15.77	-7.15	11.99	16.42	-7.82	-7.49	20.46	10.83	15.59	2.13
1882.67	11.77	16.26	-6.51	12.76	16.99	-7.18	-6.85	34.33	11.28	29.80	2.09
1882.75	12.09	16.49	-5.60	12.98	17.16	-6.22	-5.92	19.25	11.13	15.13	2.11
1882.83	13.78	17.74	-3.67	14.94	18.60	-4.30	-3.99	14.68	13.07	10.27	1.94
1882.92	15.06	18.69	-5.32	16.03	19.40	-5.66	-5.49	18.06	13.71	13.47	1.88
1883.00	16.85	20.01	-3.96	17.46	20.46	-4.05	-4.01	9.91	15.00	4.50	1.78
1883.08	16.78	19.96	-4.21	17.57	20.54	-4.15	-4.18	13.23	15.43	7.68	1.74
1883.17	16.96	20.09	-4.48	17.67	20.61	-4.79	-4.64	14.44	15.61	7.45	1.72
1883.25	16.29	19.60	-7.35	17.42	20.43	-6.96	-7.15	71.70	14.92	64.60	1.76
1883.33	14.57	18.33	-8.36	15.68	19.14	-8.71	-8.54	36.25	13.53	29.29	1.89
1883.42	13.17	17.30	-11.33	14.23	18.08	-11.32	-11.32	103.79	12.25	97.64	1.98
1883.50	11.91	16.36	-10.89	13.07	17.22	-11.92	-11.42	90.07	11.96	84.00	2.01
1883.58	11.32	15.93	-7.95	12.34	16.68	-8.48	-8.22	37.31	11.02	32.26	2.11
1883.67	11.55	16.10	-4.56	12.37	16.70	-5.38	-4.98	20.81	11.21	16.26	2.10
1883.75	12.41	16.73	-3.54	13.18	17.30	-4.39	-3.97	19.23	11.67	14.80	2.06
1883.83	13.20	17.32	-4.12	14.27	18.10	-4.72	-4.43	10.75	12.44	6.57	2.00
1883.92	15.64	19.11	-3.05	16.27	19.58	-3.23	-3.14	10.17	14.22	5.31	1.84
1884.00	16.89	20.04	-2.49	17.70	20.63	-2.53	-2.51	14.50	15.38	8.92	1.74
1884.08	17.04	20.15	-4.92	17.74	20.66	-5.21	-5.07	23.36	15.54	17.76	1.72
1884.17	16.34	19.63	-4.36	17.12	20.21	-4.77	-4.57	19.79	15.32	12.97	1.75
1884.25	16.81	19.98	-7.69	17.62	20.58	-8.31	-8.00	66.23	15.85	58.54	1.68
1884.33	14.44	18.23	-8.48	15.08	18.70	-9.66	-9.08	54.35	13.32	47.53	1.91
1884.42	12.65	16.91	-9.79	13.62	17.63	-10.42	-10.11	52.84	11.66	47.08	2.05
1884.50	12.62	16.89	-9.73	13.48	17.52	-10.25	-9.99	51.66	11.72	45.78	2.04
1884.58	11.43	16.01	-11.96	12.42	16.74	-12.36	-12.16	80.32	10.93	75.34	2.10
1884.67	11.39	15.98	-5.55	12.40	16.73	-6.20	-5.88	20.36	10.92	15.98	2.12
1884.75	12.86	17.07	-5.34	13.60	17.61	-6.18	-5.77	23.85	12.48	19.01	1.99
1884.83	13.25	17.35	-2.24	14.28	18.11	-3.00	-2.63	7.71	12.62	3.47	1.98
1884.92	14.82	18.51	-3.41	15.58	19.07	-3.60	-3.51	12.97	13.77	8.32	1.88
1885.00	16.67	19.88	-2.20	17.24	20.29	-2.19	-2.19	11.38	15.32	5.76	1.75
1885.08	16.61	19.83	-3.09	17.64	20.59	-3.50	-3.30	15.35	15.44	9.74	1.74
1885.17	16.46	19.72	-3.17	17.44	20.44	-4.21	-3.70	11.80	15.28	4.93	1.75
1885.25	16.50	19.75	-5.89	17.44	20.44	-6.09	-5.99	58.30	15.05	51.04	1.76
1885.33	13.77	17.73	-8.28	14.80	18.50	-8.79	-8.54	38.93	12.62	32.48	1.97
1885.42	12.18	16.57	-9.91	13.13	17.27	-10.46	-10.19	58.07	11.81	52.11	2.03
1885.50	12.41	16.74	-13.65	13.26	17.36	-14.67	-14.17	97.49	11.65	91.55	2.03
1885.58	11.86	16.33	-7.93	12.61	16.88	-8.58	-8.26	42.05	11.17	36.83	2.09
1885.67	11.77	16.26	-6.92	12.71	16.95	-7.58	-7.26	34.85	11.30	30.17	2.09
1885.75	12.51	16.80	-4.44	13.46	17.51	-5.36	-4.91	18.20	11.78	13.64	2.05

1885.83	13.17	17.30	-3.64	14.22	18.07	-4.68	-4.17	10.47	12.01	6.43	2.03
1885.92	14.59	18.34	-2.36	15.72	19.17	-2.82	-2.60	13.80	13.39	9.25	1.91
1886.00	17.45	20.45	-2.80	17.97	20.84	-2.86	-2.83	14.23	15.60	8.52	1.72
1886.08	17.12	20.21	-2.70	17.95	20.82	-2.97	-2.84	16.17	15.62	10.53	1.72
1886.17	17.55	20.53	-4.22	18.42	21.16	-4.61	-4.42	12.31	16.10	5.02	1.68
1886.25	15.45	18.97	-5.44	16.54	19.78	-5.93	-5.69	30.44	14.77	23.43	1.79
1886.33	14.20	18.05	-10.02	15.50	19.01	-11.05	-10.55	54.97	13.56	47.98	1.89
1886.42	13.03	17.19	-12.93	14.03	17.93	-13.10	-13.02	120.34	12.56	113.97	1.95
1886.50	12.05	16.47	-10.69	13.10	17.24	-11.21	-10.96	75.00	11.09	69.51	2.09
1886.58	11.82	16.30	-9.56	12.89	17.09	-11.66	-10.63	78.06	11.76	72.56	2.03
1886.67	11.00	15.69	-5.78	11.99	16.42	-6.64	-6.22	16.47	10.62	12.23	2.15
1886.75	11.47	16.04	-6.56	12.48	16.78	-7.21	-6.89	27.34	10.93	23.26	2.12
1886.83	13.06	17.21	-4.01	14.00	17.91	-4.44	-4.23	11.28	12.46	7.10	1.99
1886.92	14.95	18.61	-2.64	15.83	19.26	-2.76	-2.70	11.09	13.87	6.39	1.87
1887.00	16.55	19.79	-2.54	17.25	20.30	-2.92	-2.73	13.39	15.39	7.84	1.74
1887.08	16.58	19.81	-3.07	17.36	20.38	-3.22	-3.15	12.00	15.28	6.57	1.75
1887.17	16.16	19.50	-3.90	16.92	20.06	-4.27	-4.09	16.66	15.12	10.02	1.76
1887.25	15.72	19.17	-7.64	16.67	19.88	-7.27	-7.45	69.11	14.82	62.15	1.77
1887.33	16.10	19.46	-10.21	16.99	20.11	-10.71	-10.46	166.38	15.05	158.45	1.72
1887.42	13.17	17.29	-11.37	14.22	18.06	-11.88	-11.63	81.17	12.38	75.01	1.98
1887.50	12.24	16.60	-10.51	13.03	17.19	-11.04	-10.78	74.01	11.87	68.10	2.02
1887.58	11.84	16.32	-8.20	12.98	17.15	-8.43	-8.32	93.77	11.38	88.58	2.06
1887.67	12.16	16.55	-6.25	13.12	17.25	-6.98	-6.62	34.18	11.38	29.61	2.08
1887.75	13.30	17.39	-3.17	13.98	17.89	-3.67	-3.42	16.21	12.20	11.57	2.01
1887.83	13.48	17.52	-5.08	14.44	18.23	-5.49	-5.29	15.54	12.60	11.35	1.98
1887.92	15.17	18.77	-3.31	16.05	19.42	-3.98	-3.65	12.93	14.17	8.14	1.85
1888.00	16.06	19.42	-3.66	16.90	20.04	-3.81	-3.74	13.13	14.58	7.90	1.81
1888.08	17.51	20.50	-4.60	18.35	21.12	-4.87	-4.74	24.46	15.89	18.67	1.69
1888.17	16.79	19.96	-5.28	17.60	20.56	-5.94	-5.61	30.44	15.46	23.51	1.73
1888.25	15.04	18.68	-5.29	16.00	19.38	-6.03	-5.67	33.30	14.40	26.51	1.82
1888.33	14.35	18.16	-6.99	15.37	18.92	-9.56	-8.30	83.01	13.85	75.80	1.85
1888.42	13.09	17.24	-8.24	13.93	17.85	-8.64	-8.44	43.29	12.18	37.15	2.01
1888.50	11.30	15.92	-9.72	12.57	16.85	-10.24	-9.99	37.69	10.73	32.42	2.13
1888.58	11.72	16.22	-6.94	12.68	16.93	-7.66	-7.31	29.12	10.93	24.10	2.12
1888.67	11.45	16.02	-5.88	12.69	16.94	-6.33	-6.11	14.21	10.90	9.80	2.13
1888.75	13.24	17.35	-2.94	13.93	17.86	-3.53	-3.24	15.07	12.52	10.18	1.99
1888.83	14.13	18.00	-3.40	15.19	18.79	-4.11	-3.76	19.03	13.00	14.59	1.94
1888.92	15.32	18.88	-3.13	16.34	19.63	-3.76	-3.45	14.22	14.09	9.40	1.85
1889.00	16.69	19.89	-1.96	17.64	20.59	-2.37	-2.17	14.14	15.45	8.43	1.74

1889.08	16.99	20.11	-3.20	18.16	20.97	-3.83	-3.52	13.31	15.98	7.42	1.69
1889.17	17.18	20.25	-4.52	18.22	21.02	-5.57	-5.05	62.51	15.66	55.38	1.70
1889.25	15.31	18.87	-4.71	16.33	19.63	-5.20	-4.96	18.40	14.36	11.55	1.83
1889.33	14.28	18.11	-7.35	15.54	19.04	-8.32	-7.85	46.75	13.21	39.87	1.92
1889.42	12.59	16.87	-8.93	13.64	17.64	-9.74	-9.34	61.96	11.96	55.87	2.02
1889.50	11.04	15.72	-8.58	12.33	16.67	-9.45	-9.03	31.27	10.69	25.92	2.14
1889.58	10.96	15.66	-8.06	12.05	16.47	-9.00	-8.54	40.36	10.61	35.44	2.14
1889.67	11.53	16.09	-6.66	12.51	16.81	-7.24	-6.96	23.02	10.93	18.52	2.12
1889.75	11.77	16.26	-4.96	12.81	17.03	-5.76	-5.37	24.86	11.14	20.60	2.10
1889.83	13.30	17.39	-3.54	14.39	18.19	-4.06	-3.81	14.27	12.22	10.12	2.01
1889.92	14.46	18.24	-1.24	15.64	19.12	-2.17	-1.72	11.69	13.50	7.07	1.90
1890.00	15.87	19.29	-1.89	16.95	20.08	-2.25	-2.07	18.75	14.81	13.30	1.79
1890.08	15.98	19.36	-2.34	16.92	20.06	-2.79	-2.57	11.04	15.20	5.47	1.76
1890.17	15.74	19.19	-3.31	17.03	20.14	-4.31	-3.82	19.20	14.99	12.41	1.77
1890.25	15.50	19.01	-5.74	16.67	19.87	-6.47	-6.11	48.45	14.40	41.49	1.82
1890.33	13.56	17.58	-8.81	14.92	18.58	-9.56	-9.20	41.75	12.84	35.05	1.95
1890.42	12.47	16.78	-9.93	13.70	17.68	-10.70	-10.33	64.44	11.33	58.69	2.07
1890.50	12.02	16.45	-9.28	13.17	17.30	-9.63	-9.46	37.06	11.30	31.23	2.09
1890.58	10.79	15.54	-8.27	11.89	16.35	-9.13	-8.71	33.53	10.52	28.58	2.15
1890.67	10.96	15.66	-6.62	12.03	16.45	-7.38	-7.01	25.01	10.63	20.60	2.15
1890.75	12.19	16.57	-2.91	13.15	17.28	-3.87	-3.40	14.93	11.32	10.51	2.09
1890.83	12.79	17.01	-4.33	13.97	17.88	-5.14	-4.75	8.84	11.97	4.74	2.04
1890.92	15.29	18.86	-3.18	16.43	19.70	-3.96	-3.58	17.33	14.32	12.29	1.83
1891.00	16.39	19.67	-1.56	17.32	20.36	-2.09	-1.83	10.61	15.42	5.00	1.74
1891.08	16.80	19.97	-4.33	17.38	20.40	-5.02	-4.68	17.08	15.36	11.58	1.74
1891.17	15.70	19.16	-5.21	16.60	19.82	-5.71	-5.46	17.65	14.58	11.27	1.81
1891.25	14.29	18.12	-6.96	15.41	18.95	-7.95	-7.47	39.46	13.67	33.15	1.88
1891.33	14.13	18.00	-9.74	15.30	18.87	-10.13	-9.94	92.72	13.63	85.70	1.87
1891.42	12.67	16.92	-9.72	13.91	17.84	-10.29	-10.01	70.74	11.89	64.84	2.02
1891.50	11.37	15.96	-9.46	12.47	16.77	-9.96	-9.72	48.54	10.95	43.16	2.11
1891.58	11.17	15.82	-8.45	12.03	16.45	-9.09	-8.78	46.13	11.24	40.96	2.09
1891.67	11.93	16.38	-5.84	12.95	17.13	-6.51	-6.18	23.80	11.57	19.06	2.07
1891.75	12.88	17.08	-5.30	13.83	17.78	-5.78	-5.54	15.59	12.14	10.92	2.02
1891.83	14.88	18.55	-4.67	15.69	19.15	-4.69	-4.68	11.09	13.95	6.24	1.87
1891.92	16.66	19.87	-3.95	17.31	20.35	-4.25	-4.10	23.85	15.25	18.52	1.75
1892.00	17.21	20.27	-2.97	17.77	20.69	-3.14	-3.06	10.35	15.65	4.66	1.72
1892.08	17.69	20.63	-3.08	18.43	21.17	-3.47	-3.28	15.98	16.43	9.98	1.65
1892.17	17.12	20.21	-5.30	17.75	20.67	-5.49	-5.40	11.12	15.65	4.13	1.72
1892.25	15.34	18.89	-5.24	16.35	19.64	-5.93	-5.59	13.57	14.27	6.91	1.84

1892.33	14.63	18.37	-9.17	15.69	19.15	-9.23	-9.20	61.17	13.27	54.42	1.91
1892.42	13.99	17.90	-10.69	14.75	18.46	-10.99	-10.84	91.87	12.64	85.49	1.95
1892.50	12.04	16.46	-11.30	12.97	17.15	-11.51	-11.41	70.09	11.38	64.46	2.07
1892.58	11.71	16.22	-8.55	12.66	16.91	-8.84	-8.70	38.19	11.05	33.15	2.11
1892.67	12.25	16.62	-7.47	13.01	17.18	-8.07	-7.77	21.39	11.43	16.75	2.08
1892.75	12.79	17.01	-3.79	13.88	17.81	-4.63	-4.22	22.15	11.79	17.69	2.05
1892.83	13.72	17.70	-4.00	14.56	18.32	-4.71	-4.36	16.65	12.51	12.47	1.99
1892.92	15.71	19.17	-2.06	16.42	19.69	-2.35	-2.21	15.79	14.14	10.99	1.85
1893.00	16.36	19.65	-2.38	17.35	20.37	-2.85	-2.62	18.24	15.11	12.73	1.76
1893.08	16.59	19.81	-2.43	17.28	20.32	-2.55	-2.49	7.23	15.38	1.66	1.74
1893.17	16.54	19.78	-4.11	17.29	20.33	-4.92	-4.52	15.08	15.23	8.25	1.76
1893.25	15.53	19.04	-4.64	16.43	19.70	-5.24	-4.95	22.50	14.63	15.52	1.80
1893.33	14.20	18.05	-8.68	15.13	18.74	-8.96	-8.82	42.79	13.18	35.99	1.92
1893.42	13.01	17.17	-10.28	13.79	17.75	-10.44	-10.36	48.64	12.24	42.42	2.00
1893.50	12.21	16.58	-8.70	13.38	17.45	-9.47	-9.09	44.70	11.53	38.85	2.06
1893.58	10.32	15.19	-8.57	11.44	16.01	-9.24	-8.91	29.72	9.89	25.28	2.21
1893.67	11.05	15.73	-5.93	12.12	16.52	-6.59	-6.27	19.59	10.72	15.24	2.14
1893.75	12.85	17.06	-5.06	13.78	17.74	-5.57	-5.32	23.47	11.88	18.88	2.04
1893.83	13.87	17.81	-3.88	15.06	18.68	-4.64	-4.27	13.34	12.66	9.02	1.98
1893.92	15.62	19.10	-3.62	16.19	19.52	-3.88	-3.75	14.79	14.68	9.67	1.80
1894.00	16.54	19.78		17.36	20.38		0.00	15.21	15.44	9.59	1.74
1894.08	15.75	19.19	-3.40	16.69	19.89	-3.83	-3.62	15.31	15.27	9.83	1.75
1894.17	15.93	19.33	-5.72	16.84	20.00	-5.93	-5.83	15.19	15.21	8.43	1.76
1894.25	16.20	19.53	-5.95	17.11	20.20	-6.54	-6.25	29.60	15.31	22.25	1.74
1894.33	14.77	18.47	-9.18	15.79	19.23	-9.33	-9.26	61.37	13.94	54.11	1.85
1894.42	13.65	17.65	-9.53	14.95	18.61	-9.82	-9.68	88.51	12.61	82.10	1.96
1894.50	12.13	16.53	-11.12	13.13	17.27	-11.35	-11.24	92.58	11.26	86.98	2.07
1894.58	11.57	16.11	-7.91	12.74	16.98	-8.59	-8.26	42.00	10.84	37.05	2.12
1894.67	11.78	16.27	-6.77	12.73	16.97	-7.54	-7.16	28.98	11.12	24.47	2.10
1894.75	12.87	17.07	-6.02	13.83	17.78	-5.83	-5.92	18.46	11.93	13.89	2.04
1894.83	13.34	17.42	-4.11	14.53	18.30	-5.39	-4.77	12.60	12.13	8.56	2.02
1894.92	15.11	18.72	-4.73	16.04	19.41	-4.94	-4.84	11.63	13.97	6.88	1.86
1895.00	16.67	19.88	-1.63	17.30	20.34	-1.84	-1.74	11.66	15.20	6.20	1.76
1895.08	16.71	19.90	-2.12	17.53	20.51	-2.71	-2.42	12.29	15.42	6.79	1.74
1895.17	16.21	19.54	-3.68	16.81	19.98	-3.81	-3.75	15.55	15.34	8.77	1.75
1895.25	15.94	19.34	-4.27	16.76	19.94	-4.95	-4.62	11.42	14.88	4.40	1.79
1895.33	16.04	19.41	-10.83	17.02	20.13	-11.12	-10.98	115.71	14.83	107.91	1.76
1895.42	13.03	17.19	-9.42	13.94	17.86	-9.88	-9.65	58.49	12.05	52.53	2.01
1895.50	12.30	16.65	-11.13	13.18	17.30	-11.46	-11.30	91.15	11.91	85.19	2.01

1895.58	11.41	15.99	-7.97	12.39	16.72	-8.34	-8.16	40.93	11.03	35.93	2.11
1895.67	11.66	16.18	-5.24	12.81	17.03	-6.04	-5.65	23.04	10.92	18.70	2.12
1895.75	11.89	16.35	-4.92	13.13	17.26	-5.91	-5.43	38.98	11.74	34.55	2.05
1895.83	14.24	18.09	-3.04	15.31	18.87	-4.22	-3.64	10.76	13.18	6.30	1.93
1895.92	15.70	19.16	-1.15	16.66	19.87	-1.73	-1.45	10.76	14.43	5.85	1.82
1896.00	16.39	19.67	-1.96	17.15	20.23	-2.29	-2.13	14.60	15.16	9.09	1.76
1896.08	16.71	19.90	-1.60	17.70	20.64	-2.23	-1.92	10.72	15.76	5.00	1.71
1896.17	16.04	19.41	-4.17	17.29	20.33	-6.38	-5.30	16.30	14.99	9.64	1.78
1896.25	14.88	18.55	-5.38	16.16	19.50	-6.27	-5.84	21.97	14.22	15.28	1.84
1896.33	14.73	18.44	-10.51	16.04	19.41	-11.60	-11.07	127.01	14.10	119.62	1.81
1896.42	12.96	17.14	-10.44	13.96	17.88	-10.90	-10.67	76.19	12.43	69.88	1.97
1896.50	11.90	16.35	-8.61	13.37	17.44	-9.23	-8.93	48.74	11.28	43.10	2.08
1896.58	10.96	15.66	-9.50	12.51	16.80	-9.46	-9.48	61.58	10.52	56.80	2.14
1896.67	11.85	16.32	-5.34	13.10	17.24	-6.20	-5.78	20.62	11.35	15.96	2.09
1896.75	12.34	16.68	-4.45	13.53	17.56	-5.18	-4.82	14.06	11.67	9.60	2.06
1896.83	13.66	17.65	-4.99	14.67	18.40	-6.91	-5.97	17.19	12.91	12.78	1.95
1896.92	15.37	18.91	-5.59	16.25	19.57	-5.97	-5.78	11.30	13.88	6.57	1.87
1897.00	16.98	20.10	-2.63	17.75	20.67	-3.14	-2.89	14.91	15.42	9.36	1.74
1897.08	17.55	20.52	-2.61	18.39	21.14	-2.91	-2.76	17.38	16.23	11.51	1.67
1897.17	16.89	20.04	-5.84	17.97	20.83	-6.41	-6.13	87.94	15.51	81.08	1.71
1897.25	16.43	19.70	-8.09	17.61	20.57	-7.32	-7.70	63.65	15.51	56.25	1.71
1897.33	15.56	19.06	-8.30	16.58	19.81	-8.62	-8.46	58.16	14.26	50.79	1.82
1897.42	13.46	17.51	-8.18	14.57	18.33	-8.60	-8.39	55.55	12.42	49.37	1.98
1897.50	12.09	16.50	-12.11	13.16	17.29	-12.67	-12.40	89.71	11.10	84.31	2.08
1897.58	11.17	15.82	-8.99	12.38	16.71	-9.42	-9.21	46.17	10.58	41.48	2.14
1897.67	11.80	16.28	-5.33	12.87	17.07	-6.15	-5.75	36.96	11.41	32.38	2.08
1897.75	13.33	17.41	-2.96	14.13	18.00	-3.70	-3.34	14.69	12.66	9.82	1.98
1897.83	13.72	17.70	-3.05	14.71	18.43	-3.84	-3.45	11.74	12.72	7.51	1.97
1897.92	14.87	18.55	-1.39	16.05	19.42	-1.94	-1.67	14.37	13.83	9.75	1.88
1898.00	16.08	19.44	-2.59	17.19	20.26	-3.13	-2.87	13.92	15.14	8.36	1.76
1898.08	16.38	19.66	-2.56	17.39	20.41	-3.01	-2.79	10.26	15.27	4.70	1.75
1898.17	15.32	18.88	-3.90	16.52	19.77	-4.46	-4.19	16.22	14.36	9.85	1.83
1898.25	15.23	18.81	-5.80	16.44	19.70	-6.94	-6.38	25.86	13.95	19.25	1.86
1898.33	14.28	18.11	-8.96	15.54	19.04	-9.29	-9.13	75.21	13.67	68.02	1.87
1898.42	12.51	16.81	-9.63	13.81	17.76	-11.56	-10.62	67.64	11.80	61.65	2.03
1898.50	11.83	16.31	-10.80	12.94	17.12	-11.29	-11.05	78.41	11.36	72.62	2.07
1898.58	10.79	15.54	-8.97	11.96	16.40	-9.55	-9.27	62.40	10.38	57.61	2.16
1898.67	11.53	16.08	-6.07	12.55	16.83	-7.04	-6.57	26.08	11.17	21.44	2.10
1898.75	12.13	16.52	-5.19	13.28	17.37	-6.04	-5.63	20.47	11.33	16.10	2.09

1898.83	14.87	18.55	-3.18	15.63	19.11	-3.95	-3.57	18.41	13.56	13.64	1.90
1898.92	14.80	18.50	-4.21	16.07	19.43	-5.09	-4.66	13.75	13.81	8.99	1.88
1899.00	16.60	19.82	-1.33	17.91	20.79	-1.84	-1.59	14.45	15.65	8.74	1.72
1899.08	17.29	20.33	-2.52	18.52	21.24	-2.87	-2.70	16.32	16.07	10.48	1.68
1899.17	17.10	20.19	-2.81	18.15	20.96	-3.26	-3.04	23.39	15.59	16.42	1.72
1899.25	16.65	19.86	-6.24	17.63	20.58	-6.39	-6.32	60.75	15.58	53.26	1.71
1899.33	13.79	17.75	-9.07	15.09	18.71	-11.70	-10.42	60.54	13.01	53.95	1.93
1899.42	12.58	16.86	-10.70	13.56	17.58	-11.25	-10.98	49.02	11.57	43.33	2.06
1899.50	11.58	16.12	-10.23	12.81	17.02	-11.06	-10.66	73.53	11.14	68.04	2.09
1899.58	11.51	16.07	-6.66	12.82	17.03	-7.58	-7.13	20.68	10.70	15.84	2.14
1899.67	11.52	16.07	-6.38	12.60	16.87	-7.28	-6.84	32.17	10.84	27.83	2.13
1899.75	12.65	16.91	-4.60	13.87	17.81	-5.32	-4.97	16.88	11.80	12.40	2.05
1899.83	14.01	17.91	-3.21	15.04	18.67	-3.83	-3.53	25.59	12.97	21.20	1.95
1899.92	15.86	19.27	-3.00	16.71	19.90	-3.34	-3.17	10.87	14.62	5.84	1.81
1900.00	17.36	20.38	-3.50	17.90	20.78	-3.41	-3.45	16.85	15.77	11.11	1.71
1900.08	18.37	21.13	-3.50	19.03	21.61	-3.33	-3.41	44.00	16.47	37.99	1.64
1900.17	16.73	19.92	-4.99	17.46	20.46	-4.31	-4.65	9.94	15.40	3.12	1.74
1900.25	16.34	19.63	-4.33	17.20	20.27	-4.71	-4.52	24.16	14.97	17.08	1.77
1900.33	14.38	18.19	-9.81	15.29	18.86	-10.17	-9.99	93.38	13.28	86.64	1.90
1900.42	13.63	17.64	-9.24	14.68	18.41	-9.97	-9.61	62.65	12.62	56.30	1.96
1900.50	12.01	16.44	-10.32	13.01	17.18	-10.46	-10.39	55.18	11.42	49.54	2.07
1900.58	11.94	16.38	-6.16	12.77	17.00	-6.94	-6.56	26.92	11.33	21.73	2.09
1900.67	11.49	16.06	-5.32	12.51	16.81	-6.05	-5.69	24.93	10.84	20.62	2.13
1900.75	11.99	16.43	-4.37	13.03	17.19	-5.38	-4.89	19.86	11.33	15.64	2.09
1900.83	13.81	17.77	-3.00	14.89	18.56	-3.83	-3.42	11.76	12.70	7.51	1.97
1900.92	15.92	19.32	-3.47	16.90	20.04	-3.96	-3.72	13.83	14.49	8.88	1.82
1901.00	17.63	20.59	-3.28	18.24	21.03	-3.44	-3.36	14.17	15.60	8.44	1.72
1901.08	17.66	20.61	-1.69	18.45	21.18	-2.20	-1.95	19.17	15.84	13.39	1.70
1901.17	16.37	19.66	-4.28	17.35	20.38	-5.02	-4.66	13.60	15.07	6.88	1.77
1901.25	15.43	18.96	-6.18	16.45	19.72	-6.40	-6.29	34.68	14.69	27.68	1.79
1901.33	14.62	18.36	-10.71	15.70	19.16	-10.93	-10.82	81.29	13.74	74.12	1.86
1901.42	12.83	17.04	-10.65	13.90	17.83	-13.52	-12.12	46.38	11.54	40.64	2.06
1901.50	11.80	16.28	-10.06	12.89	17.08	-10.56	-10.32	42.79	10.95	37.34	2.11
1901.58	10.99	15.69	-7.34	12.20	16.58	-8.13	-7.75	41.32	10.55	36.50	2.15
1901.67	11.99	16.42	-6.21	13.05	17.20	-6.94	-6.58	34.93	11.19	30.34	2.10
1901.75	12.78	17.01	-2.83	13.66	17.65	-3.70	-3.27	12.38	11.66	7.91	2.06
1901.83	13.71	17.69	-3.00	14.58	18.33	-3.67	-3.34	9.07	12.42	4.88	2.00
1901.92	16.18	19.51	-2.79	16.66	19.87	-3.14	-2.97	15.23	14.42	10.25	1.82
1902.00	16.51	19.76	-1.82	17.18	20.25	-2.30	-2.06	13.98	15.02	8.49	1.77

1902.08	16.41	19.68	-2.88	17.19	20.26	-3.42	-3.15	11.52	14.76	6.22	1.80
1902.17	16.97	20.09	-3.38	17.76	20.68	-3.83	-3.61	17.83	15.30	10.94	1.75
1902.25	15.99	19.37	-6.60	17.10	20.19	-6.98	-6.79	43.91	14.76	36.81	1.79
1902.33	15.28	18.85	-7.16	16.26	19.57	-7.94	-7.56	67.10	14.26	59.53	1.82
1902.42	13.79	17.75	-8.71	15.03	18.67	-10.12	-9.43	62.19	12.75	55.59	1.95
1902.50	11.66	16.18	-8.35	12.81	17.03	-8.94	-8.65	38.36	10.91	32.89	2.12
1902.58	11.07	15.74	-6.65	12.10	16.50	-7.30	-6.98	22.88	10.27	18.18	2.18
1902.67	11.51	16.07	-6.47	12.55	16.83	-7.16	-6.82	21.02	10.96	16.52	2.12
1902.75	12.84	17.05	-4.81	13.65	17.65	-5.58	-5.20	20.49	11.83	15.90	2.05
1902.83	13.60	17.61	-3.09	14.64	18.38	-4.07	-3.59	26.62	12.51	22.35	1.98
1902.92	14.47	18.25	-3.13	15.33	18.88	-3.53	-3.33	12.55	13.00	8.16	1.95
1903.00	16.81	19.98	-2.16	17.32	20.35	-2.49	-2.33	17.68	15.15	12.12	1.76
1903.08	17.06	20.16	-5.09	17.66	20.60	-4.83	-4.96	15.32	15.59	9.62	1.72
1903.17	16.41	19.68	-3.97	17.13	20.22	-4.73	-4.36	24.69	14.77	18.10	1.79
1903.25	15.64	19.11	-7.26	16.48	19.74	-7.39	-7.33	33.93	14.40	27.05	1.82
1903.33	14.86	18.54	-8.38	15.28	18.85	-8.20	-8.29	51.46	13.55	44.36	1.89
1903.42	13.17	17.29	-9.97	14.07	17.95	-10.70	-10.34	86.59	12.25	80.31	1.99
1903.50	11.73	16.23	-9.44	12.87	17.07	-10.10	-9.78	33.96	11.20	28.28	2.10
1903.58	11.20	15.84	-6.94	12.18	16.56	-7.58	-7.27	27.43	10.47	22.60	2.16
1903.67	11.30	15.91	-7.73	12.31	16.66	-8.38	-8.06	49.26	10.90	44.77	2.11
1903.75	11.71	16.22	-5.50	12.70	16.95	-6.34	-5.93	15.18	11.09	10.94	2.11
1903.83	13.86	17.80	-3.74	14.81	18.50	-4.24	-3.99	12.42	12.69	8.06	1.97
1903.92	14.84	18.52	-3.26	15.70	19.16	-3.97	-3.62	12.63	13.89	7.84	1.87
1904.00	16.27	19.58	-3.23	17.22	20.28	-3.75	-3.49	9.85	15.17	4.34	1.76
1904.08	16.57	19.80	-4.13	17.40	20.41	-4.50	-4.32	8.84	15.58	3.20	1.73
1904.17	16.76	19.94	-3.12	17.63	20.58	-3.74	-3.43	16.67	15.80	9.55	1.71
1904.25	15.70	19.16	-8.55	16.75	19.93	-9.23	-8.90	82.47	14.76	75.45	1.77
1904.33	14.60	18.35	-9.02	15.54	19.04	-9.13	-9.08	49.81	13.12	43.10	1.92
1904.42	13.68	17.67	-9.39	14.45	18.24	-9.35	-9.37	61.76	12.69	55.29	1.96
1904.50	12.67	16.92	-10.42	13.84	17.78	-10.79	-10.61	61.39	11.79	55.42	2.03
1904.58	11.04	15.72	-10.55	12.09	16.50	-11.23	-10.90	37.64	10.26	33.02	2.17
1904.67	11.94	16.38	-5.61	12.64	16.90	-6.32	-5.97	25.33	11.37	20.67	2.08
1904.75	11.88	16.34	-4.36	12.93	17.12	-4.63	-4.50	7.90	10.78	3.89	2.14
1904.83	13.35	17.43	-4.51	14.15	18.02	-4.93	-4.72	12.02	12.16	7.96	2.02
1904.92	16.41	19.69	-2.39	17.05	20.16	-2.93	-2.66	14.87	14.91	9.68	1.78
1905.00	16.04	19.41	-2.01	16.81	19.98	-2.40	-2.21	11.19	14.46	5.94	1.82
1905.08	16.57	19.80	-2.31	17.29	20.33	-2.74	-2.53	15.56	15.13	10.06	1.76
1905.17	16.61	19.83	-4.69	17.48	20.47	-5.21	-4.95	14.86	15.38	7.90	1.74
1905.25	16.77	19.95	-5.51	17.66	20.60	-6.01	-5.76	37.95	15.41	30.42	1.73

1905.33	14.79	18.49	-6.85	15.85	19.27	-7.55	-7.21	33.61	13.45	26.55	1.90
1905.42	13.25	17.35	-9.29	14.21	18.06	-9.57	-9.43	52.65	12.00	46.52	2.02
1905.50	11.17	15.81	-10.33	12.50	16.80	-10.34	-10.34	58.69	10.19	53.65	2.17
1905.58	10.53	15.34	-9.86	11.49	16.06	-10.42	-10.15	43.21	9.40	38.99	2.25
1905.67	11.67	16.19	-6.38	12.66	16.92	-6.76	-6.57	25.42	10.81	20.97	2.13
1905.75	13.49	17.53	-5.14	14.23	18.07	-5.58	-5.36	28.89	12.29	24.04	2.00
1905.83	13.87	17.81	-1.70	14.70	18.42	-2.28	-1.99	9.50	12.52	5.19	1.99
1905.92	15.00	18.64	-3.26	16.26	19.57	-4.03	-3.65	13.61	14.12	8.70	1.85
1906.00	16.60	19.83	-2.59	17.43	20.43	-3.12	-2.86	19.62	15.77	13.71	1.71
1906.08	17.20	20.27	-3.63	18.18	20.99	-4.25	-3.95	45.58	15.92	39.67	1.69
1906.17	15.54	19.04	-2.76	16.52	19.77	-3.35	-3.06	9.28	14.36	2.85	1.83
1906.25	14.82	18.51	-6.68	16.03	19.40	-7.35	-7.02	55.78	13.88	49.15	1.86
1906.33	14.02	17.92	-10.19	14.92	18.58	-9.92	-10.05	62.71	12.90	55.97	1.94
1906.42	12.84	17.05	-8.69	13.82	17.77	-9.14	-8.92	59.94	12.06	53.71	2.01
1906.50	10.82	15.56	-11.64	11.86	16.33	-12.09	-11.87	51.40	10.05	46.39	2.19
1906.58	10.65	15.43	-8.98	11.75	16.24	-9.72	-9.36	36.72	10.10	32.03	2.19
1906.67	11.12	15.78	-5.73	12.19	16.57	-6.54	-6.14	16.00	10.63	11.59	2.15
1906.75	11.59	16.13	-4.06	12.51	16.81	-4.94	-4.51	12.51	11.32	8.10	2.09
1906.83	13.76	17.73	-3.03	14.54	18.31	-3.35	-3.19	14.27	12.72	9.84	1.97
1906.92	15.08	18.70	-2.99	15.67	19.14	-3.53	-3.26	16.91	13.86	12.09	1.87
1907.00	15.97	19.36	-2.23	16.56	19.80	-2.60	-2.42	11.34	14.83	5.88	1.79
1907.08	16.99	20.11	-2.55	17.71	20.64	-2.69	-2.62	9.23	15.69	3.43	1.72
1907.17	16.97	20.10	-3.71	17.81	20.72	-4.14	-3.93	29.73	16.18	22.25	1.67
1907.25	15.53	19.03	-5.42	16.69	19.89	-7.11	-6.28	59.97	14.81	52.78	1.78
1907.33	14.58	18.34	-8.43	15.84	19.26	-9.21	-8.83	63.98	13.47	56.86	1.89
1907.42	11.97	16.41	-10.66	13.21	17.32	-11.01	-10.84	65.76	10.70	60.43	2.13
1907.50	11.86	16.33	-9.78	12.93	17.12	-10.22	-10.01	62.63	10.92	57.07	2.11
1907.58	11.10	15.77	-9.94	12.06	16.48	-10.61	-10.28	54.94	10.91	49.78	2.11
1907.67	11.19	15.83	-8.83	12.32	16.66	-9.53	-9.19	40.90	10.33	36.65	2.17
1907.75	11.85	16.32	-4.17	12.72	16.96	-5.07	-4.63	9.94	10.93	5.73	2.13
1907.83	13.02	17.18	-1.66	14.34	18.15	-2.55	-2.12	12.51	12.23	8.31	2.01
1907.92	13.92	17.85	-4.47	14.84	18.52	-4.81	-4.64	11.16	12.76	6.83	1.97
1908.00	16.30	19.60	-2.72	17.07	20.17	-3.17	-2.95	14.75	14.94	9.27	1.78
1908.08	16.84	20.00	-2.34	17.50	20.49	-2.69	-2.52	13.80	15.23	8.24	1.75
1908.17	16.37	19.65	-4.15	17.02	20.13	-4.90	-4.53	13.14	15.23	6.25	1.76
1908.25	15.30	18.86	-8.07	16.19	19.52	-8.37	-8.22	59.33	14.28	52.49	1.82
1908.33	14.84	18.53	-9.08	15.73	19.18	-9.87	-9.48	51.68	13.54	44.55	1.89
1908.42	13.70	17.68	-10.42	14.55	18.31	-10.41	-10.41	55.96	12.64	49.38	1.96
1908.50	11.58	16.12	-11.29	12.49	16.79	-11.88	-11.59	63.28	10.85	57.80	2.11



1908.58	10.75	15.51	-10.30	11.80	16.28	-10.79	-10.55	36.69	9.70	32.29	2.22
1908.67	12.16	16.55	-8.26	13.07	17.22	-8.52	-8.39	61.19	11.57	56.31	2.05
1908.75	11.91	16.36	-5.92	12.72	16.96	-6.74	-6.34	20.51	11.22	16.18	2.10
1908.83	13.04	17.19	-5.63	13.76	17.73	-6.13	-5.88	5.78	11.77	1.80	2.05
1908.92	15.34	18.89	-3.77	16.19	19.52	-4.24	-4.01	17.49	13.95	12.65	1.86
1909.00	16.85	20.01	-2.81	17.49	20.48	-3.21	-3.01	16.72	15.37	11.09	1.74
1909.08	17.13	20.21	-2.64	17.74	20.66	-2.82	-2.73	10.31	15.74	4.57	1.71
1909.17	16.35	19.64	-5.88	17.38	20.40	-6.22	-6.05	39.95	15.39	33.04	1.73
1909.25	16.27	19.58	-4.18	17.22	20.28	-4.49	-4.34	23.33	14.98	16.14	1.77
1909.33	13.70	17.68	-9.23	14.50	18.28	-9.63	-9.43	54.08	12.70	47.61	1.96
1909.42	13.48	17.52	-9.51	14.36	18.17	-10.09	-9.81	69.51	12.60	63.05	1.96
1909.50	11.14	15.79	-11.74	12.19	16.57	-12.52	-12.14	84.16	10.76	78.82	2.12
1909.58	11.10	15.76	-10.02	12.12	16.52	-10.48	-10.26	39.27	10.45	34.51	2.16
1909.67	11.68	16.19	-8.50	12.62	16.89	-8.75	-8.63	52.62	11.00	48.13	2.11
1909.75	12.29	16.64	-5.36	13.08	17.23	-5.70	-5.53	13.33	11.28	9.05	2.10
1909.83	13.60	17.61	-2.85	14.62	18.36	-3.52	-3.19	10.87	12.62	6.58	1.98
1909.92	15.60	19.09	-3.43	16.24	19.56	-4.20	-3.82	14.25	14.45	9.25	1.82
1910.00	16.51	19.76	-2.18	17.59	20.56	-2.72	-2.46	16.17	15.39	10.48	1.74
1910.08	16.75	19.93	-4.17	17.72	20.65	-4.75	-4.47	16.35	15.86	10.51	1.70
1910.17	16.82	19.99	-4.37	17.58	20.55	-4.73	-4.55	24.98	15.43	17.99	1.73
1910.25	15.97	19.36	-6.80	17.13	20.21	-7.42	-7.12	27.01	14.87	19.82	1.78
1910.33	14.07	17.96	-9.72	14.83	18.52	-9.49	-9.60	58.10	13.19	51.23	1.92
1910.42	12.62	16.89	-8.65	13.59	17.60	-8.79	-8.72	47.66	11.64	41.77	2.05
1910.50	11.26	15.89	-10.74	12.28	16.64	-11.01	-10.88	47.97	10.70	42.60	2.13
1910.58	10.06	15.00	-8.14	11.21	15.85	-8.69	-8.42	18.41	9.56	14.10	2.24
1910.67	11.99	16.42	-7.39	12.94	17.12	-7.95	-7.68	47.80	11.47	42.99	2.07
1910.75	11.38	15.97	-4.04	12.60	16.87	-5.02	-4.54	10.20	10.89	6.05	2.13
1910.83	13.00	17.16	-4.01	13.95	17.87	-4.38	-4.20	9.31	12.01	5.24	2.03
1910.92	15.25	18.82	-4.51	15.77	19.21	-4.91	-4.71	17.28	14.10	12.38	1.85
1911.00	16.98	20.10	-2.95	17.48	20.47	-3.13	-3.04	18.14	15.39	12.51	1.74
1911.08	17.18	20.25	-2.29	17.96	20.83	-2.67	-2.48	11.84	15.89	6.04	1.70
1911.17	16.51	19.76	-5.66	17.51	20.50	-6.54	-6.11	74.06	15.64	67.00	1.70
1911.25	14.75	18.46	-8.20	15.72	19.17	-8.23	-8.22	40.02	13.40	33.81	1.90
1911.33	14.58	18.33	-11.02	15.89	19.30	-12.07	-11.56	96.22	13.49	89.22	1.88
1911.42	12.96	17.14	-11.98	13.95	17.87	-12.68	-12.34	102.69	12.44	96.35	1.96
1911.50	11.43	16.01	-10.52	12.42	16.74	-10.66	-10.59	35.55	10.49	30.40	2.16
1911.58	11.50	16.06	-11.56	12.47	16.78	-11.41	-11.48	64.73	10.94	59.68	2.11
1911.67	11.05	15.73	-6.79	12.13	16.52	-7.65	-7.23	22.54	10.77	18.18	2.14
1911.75	13.22	17.33	-5.70	13.95	17.87	-6.41	-6.06	25.08	12.74	20.05	1.97

1911.83	13.85	17.79	-4.35	14.83	18.52	-4.65	-4.50	30.89	12.82	26.51	1.96
1911.92	14.58	18.33	-4.12	15.65	19.12	-4.74	-4.44	17.24	13.63	12.61	1.89
1912.00	16.85	20.01	-2.46	17.46	20.46	-2.75	-2.61	14.30	15.31	8.65	1.75
1912.08	16.72	19.91	-2.90	17.72	20.65	-3.34	-3.12	19.09	15.32	13.51	1.75
1912.17	15.40	18.94	-5.86	16.50	19.75	-6.61	-6.24	20.76	14.03	14.58	1.86
1912.25	15.73	19.18	-6.41	16.92	20.06	-6.72	-6.57	57.53	14.67	50.47	1.79
1912.33	13.70	17.68	-7.92	14.76	18.47	-8.67	-8.30	25.19	12.50	18.78	1.99
1912.42	12.55	16.84	-9.49	13.59	17.60	-9.74	-9.62	48.87	11.88	42.82	2.03
1912.50	12.04	16.46	-9.80	13.08	17.23	-10.45	-10.13	59.56	11.33	53.79	2.08
1912.58	11.77	16.26	-12.55	12.89	17.09	-13.05	-12.81	81.74	10.94	76.61	2.10
1912.67	11.73	16.23	-6.93	12.68	16.93	-7.57	-7.26	28.58	11.07	23.99	2.11
1912.75	12.76	16.99	-4.81	13.63	17.63	-5.55	-5.19	12.91	11.65	8.38	2.06
1912.83	14.51	18.28	-3.76	15.22	18.80	-4.28	-4.02	13.32	13.02	8.79	1.94
1912.92	14.79	18.49	-2.88	15.72	19.18	-3.29	-3.09	8.29	13.87	3.50	1.87
1913.00	16.33	19.63	-4.36	16.96	20.09	-4.60	-4.48	11.78	14.91	6.29	1.78
1913.08	17.19	20.26	-5.36	17.65	20.60	-5.73	-5.55	24.28	15.96	18.36	1.69
1913.17	15.87	19.28	-3.52	16.70	19.90	-3.99	-3.76	14.27	14.41	7.82	1.83
1913.25	14.41	18.21	-7.05	15.62	19.10	-7.89	-7.48	22.67	13.52	16.27	1.90
1913.33	14.31	18.13	-7.23	15.44	18.96	-8.24	-7.75	40.02	13.10	33.16	1.93
1913.42	12.40	16.73	-9.30	13.45	17.50	-9.89	-9.60	57.37	11.97	51.21	2.02
1913.50	11.11	15.78	-9.47	12.33	16.67	-10.02	-9.75	59.58	10.57	54.24	2.14
1913.58	10.85	15.58	-6.93	12.16	16.55	-7.63	-7.29	32.61	10.29	27.82	2.17
1913.67	11.59	16.13	-4.77	12.44	16.76	-5.40	-5.09	23.28	11.20	18.57	2.10
1913.75	13.22	17.33	-4.50	14.02	17.92	-5.20	-4.86	18.18	12.20	13.33	2.01
1913.83	13.24	17.35	-4.55	14.18	18.04	-5.16	-4.86	10.26	12.18	6.07	2.02
1913.92	15.06	18.69	-2.52	15.88	19.30	-3.13	-2.83	10.91	13.78	6.12	1.88
1914.00	16.46	19.72	-3.42	17.13	20.21	-3.63	-3.53	13.37	15.04	7.87	1.77
1914.08	17.23	20.29	-4.34	17.77	20.69	-4.43	-4.39	55.41	15.92	49.56	1.68
1914.17	16.39	19.67	-5.40	17.30	20.34	-5.17	-5.28	18.89	15.04	12.15	1.77
1914.25	16.27	19.58	-4.24	16.84	20.00	-4.74	-4.49	26.87	14.73	19.80	1.79
1914.33	14.62	18.36	-8.95	15.43	18.96	-9.56	-9.26	46.38	13.28	39.48	1.91
1914.42	12.59	16.87	-7.54	13.80	17.76	-8.43	-8.00	43.89	11.56	38.09	2.06
1914.50	12.15	16.54	-9.41	13.30	17.39	-10.02	-9.72	74.87	11.43	69.06	2.06
1914.58	10.52	15.34	-7.46	11.59	16.13	-8.01	-7.74	31.12	10.32	26.39	2.17
1914.67	10.66	15.44	-5.20	11.81	16.29	-5.99	-5.61	19.04	10.52	14.77	2.16
1914.75	12.45	16.76	-4.40	13.43	17.48	-5.26	-4.84	19.73	11.80	15.15	2.05
1914.83	13.98	17.89	-2.76	14.86	18.54	-3.58	-3.18	9.95	12.91	5.50	1.96
1914.92	14.51	18.28	-3.06	15.60	19.08	-3.63	-3.35	14.37	13.75	9.65	1.88
1915.00	16.33	19.62	-3.50	17.36	20.38	-3.86	-3.68	16.04	15.26	10.53	1.75

1915.08	17.22	20.28	-3.22	17.77	20.68	-3.57	-3.40	22.76	15.94	16.99	1.69
1915.17	16.60	19.83	-3.48	17.74	20.66	-3.95	-3.72	17.17	15.48	10.29	1.73
1915.25	16.42	19.69	-6.96	17.25	20.30	-7.01	-6.99	79.51	15.43	72.13	1.72
1915.33	14.71	18.43	-8.69	15.81	19.24	-8.57	-8.63	106.05	13.78	98.95	1.85
1915.42	13.50	17.53	-8.55	14.49	18.27	-9.06	-8.81	70.09	12.68	63.68	1.96
1915.50	11.98	16.42	-8.58	12.97	17.15	-9.04	-8.81	49.34	11.18	43.84	2.09
1915.58	11.49	16.05	-7.48	12.51	16.80	-7.73	-7.61	37.43	10.95	32.46	2.12
1915.67	11.99	16.42	-5.85	12.95	17.13	-6.48	-6.17	28.39	11.55	23.69	2.07
1915.75	12.24	16.61	-4.09	13.17	17.29	-4.86	-4.48	9.76	11.09	5.64	2.11
1915.83	14.31	18.14	-3.39	15.20	18.79	-3.83	-3.61	17.56	13.31	13.03	1.92
1915.92	14.68	18.41	-3.02	15.59	19.08	-3.42	-3.22	9.24	13.52	4.72	1.90
1916.00	15.58	19.07	-2.55	16.68	19.88	-3.04	-2.80	13.70	14.58	8.34	1.81
1916.08	16.38	19.66	-2.92	17.29	20.33	-3.40	-3.16	11.54	15.34	5.89	1.75
1916.17	15.72	19.17	-4.41	16.81	19.97	-4.98	-4.70	9.03	14.57	2.48	1.81
1916.25	16.16	19.50	-6.61	17.54	20.51	-7.44	-7.04	58.43	14.75	51.26	1.78
1916.33	13.71	17.69	-10.31	14.82	18.51	-11.81	-11.08	72.91	13.03	66.07	1.92
1916.42	12.90	17.09	-12.74	14.19	18.05	-12.54	-12.64	137.17	11.74	131.13	2.01
1916.50	11.47	16.04	-10.51	12.47	16.78	-12.19	-11.37	51.61	10.63	46.21	2.14
1916.58	11.33	15.94	-6.61	12.17	16.56	-7.44	-7.03	27.58	10.94	22.38	2.12
1916.67	10.87	15.60	-4.96	11.81	16.29	-5.83	-5.40	14.92	10.50	10.56	2.16
1916.75	11.99	16.42	-4.59	12.76	16.99	-4.94	-4.77	17.11	11.31	12.69	2.09
1916.83	13.07	17.22	-4.19	14.04	17.94	-4.81	-4.51	8.56	11.98	4.45	2.04
1916.92	15.43	18.96	-4.12	16.21	19.53	-4.15	-4.14	6.68	14.03	1.77	1.86
1917.00	16.18	19.52	-3.92	16.92	20.06	-4.31	-4.12	11.63	14.99	6.14	1.78
1917.08	17.01	20.12	-3.64	17.72	20.65	-4.01	-3.83	25.75	16.04	19.83	1.68
1917.17	16.91	20.05	-5.48	17.83	20.73	-5.69	-5.59	53.09	15.79	45.89	1.69
1917.25	15.35	18.90	-5.66	16.38	19.66	-8.05	-6.88	48.40	14.49	41.46	1.81
1917.33	13.70	17.68	-7.66	14.86	18.54	-9.24	-8.47	41.14	12.92	34.46	1.94
1917.42	12.88	17.08	-8.52	13.75	17.72	-8.85	-8.69	35.05	12.14	28.84	2.01
1917.50	11.95	16.40	-11.32	13.06	17.21	-12.87	-12.11	71.04	11.24	65.33	2.08
1917.58	10.77	15.52	-7.84	11.88	16.34	-8.64	-8.25	30.07	10.43	25.26	2.16
1917.67	11.78	16.26	-8.14	12.71	16.96	-8.50	-8.32	44.07	11.06	39.49	2.10
1917.75	12.02	16.45	-5.14	13.15	17.28	-5.65	-5.40	28.64	11.24	24.33	2.09
1917.83	12.84	17.05	-4.89	13.96	17.87	-5.73	-5.32	35.11	12.08	31.01	2.02
1917.92	14.54	18.30	-2.63	15.84	19.26	-3.32	-2.98	15.81	13.28	11.29	1.92
1918.00	16.32	19.61	-1.81	17.24	20.30	-2.44	-2.13	14.33	15.22	8.73	1.76
1918.08	16.59	19.82	-2.20	17.42	20.43	-2.71	-2.46	13.02	15.28	7.46	1.75
1918.17	16.26	19.57	-4.71	17.21	20.27	-5.18	-4.95	12.70	15.28	5.80	1.75
1918.25	16.63	19.84	-8.85	17.66	20.61	-8.64	-8.74	60.57	15.79	52.81	1.69

1918.33	13.96	17.87	-9.12	15.05	18.68	-11.83	-10.50	60.44	13.46	53.39	1.89
1918.42	12.41	16.73	-9.48	13.75	17.72	-11.64	-10.59	49.56	11.44	43.80	2.07
1918.50	10.97	15.67	-8.06	11.93	16.38	-8.52	-8.30	48.59	10.49	43.36	2.15
1918.58	10.60	15.39	-7.87	11.64	16.17	-8.35	-8.12	29.84	10.11	25.21	2.19
1918.67	11.20	15.84	-7.11	12.25	16.61	-7.53	-7.33	31.19	10.63	26.84	2.14
1918.75	11.94	16.39	-5.72	12.73	16.97	-6.33	-6.03	17.74	11.13	13.47	2.11
1918.83	13.80	17.76	-3.09	14.57	18.33	-3.56	-3.33	14.04	12.83	9.61	1.96
1918.92	15.21	18.80	-3.72	15.90	19.31	-3.96	-3.84	8.92	13.68	4.22	1.89
1919.00	17.31	20.35	-3.28	18.33	21.10	-3.59	-3.44	16.15	16.01	10.26	1.69
1919.08	17.34	20.37	-3.65	18.34	21.11	-4.06	-3.86	16.27	16.26	10.32	1.67
1919.17	17.84	20.74	-3.19	18.58	21.29	-3.50	-3.35	22.65	16.14	15.35	1.67
1919.25	16.04	19.41	-7.31	16.98	20.10	-8.26	-7.79	34.60	15.12	27.37	1.76
1919.33	13.75	17.72	-7.79	14.88	18.55	-8.13	-7.96	33.38	13.08	26.73	1.93
1919.42	12.63	16.90	-8.62	13.64	17.64	-8.88	-8.75	43.07	12.18	36.97	2.01
1919.50	11.49	16.06	-9.05	12.78	17.01	-9.27	-9.16	56.00	10.86	50.67	2.12
1919.58	10.73	15.49	-8.17	11.76	16.25	-9.08	-8.64	24.66	10.30	20.05	2.18
1919.67	11.68	16.19	-7.48	12.58	16.86	-8.08	-7.79	51.63	11.35	47.00	2.08
1919.75	12.48	16.78	-5.02	13.54	17.57	-5.83	-5.43	14.21	11.66	9.78	2.06
1919.83	13.51	17.55	-3.28	14.54	18.31	-3.82	-3.56	14.13	12.47	9.95	1.99
1919.92	15.10	18.72	-3.79	15.91	19.31	-4.57	-4.19	8.91	13.58	4.34	1.90
1920.00	16.60	19.82	-3.39	17.32	20.35	-3.79	-3.59	27.36	15.03	21.81	1.77
1920.08	17.39	20.41	-3.04	18.26	21.05	-3.48	-3.26	17.52	16.01	11.58	1.69
1920.17	16.49	19.74	-6.90	17.93	20.80	-7.17	-7.04	48.06	15.09	41.23	1.76
1920.25	15.46	18.98	-5.87	16.59	19.82	-7.08	-6.49	35.44	14.69	28.32	1.79
1920.33	13.97	17.88	-10.25	15.19	18.78	-9.88	-10.06	43.52	13.00	36.73	1.94
1920.42	12.89	17.09	-11.54	14.16	18.02	-11.64	-11.59	76.44	11.90	70.33	2.02
1920.50	11.36	15.96	-9.69	12.54	16.83	-10.04	-9.87	61.98	11.07	56.33	2.10
1920.58	11.01	15.70	-7.91	12.08	16.49	-8.62	-8.27	35.45	10.48	30.56	2.16
1920.67	10.26	15.15	-5.76	11.32	15.93	-6.60	-6.19	23.80	9.94	19.77	2.21
1920.75	11.74	16.23	-3.64	12.67	16.92	-4.25	-3.95	9.56	10.44	5.60	2.17
1920.83	14.04	17.93	-4.89	14.86	18.54	-4.32	-4.60	12.55	12.94	8.03	1.95
1920.92	14.70	18.42	-2.65	15.62	19.10	-3.12	-2.89	9.88	13.46	5.24	1.91
1921.00	16.18	19.51	-3.48	16.68	19.89	-3.58	-3.53	8.01	14.79	2.69	1.80
1921.08	16.45	19.71	-2.41	17.34	20.37	-2.88	-2.65	14.76	15.52	9.15	1.73
1921.17	16.53	19.77	-3.74	17.38	20.40	-3.98	-3.86	17.33	15.48	10.39	1.73
1921.25	15.78	19.22	-5.73	16.82	19.99	-6.14	-5.94	51.52	14.82	44.46	1.78
1921.33	14.42	18.21	-7.98	15.27	18.84	-8.21	-8.10	29.59	13.38	22.70	1.91
1921.42	12.77	17.00	-9.74	14.03	17.93	-10.30	-10.03	71.76	12.44	65.45	1.98
1921.50	11.89	16.35	-8.70	13.11	17.25	-9.28	-9.00	52.36	11.11	46.84	2.10

1921.58	12.11	16.51	-8.17	13.30	17.39	-8.73	-8.46	60.92	11.37	55.63	2.07
1921.67	11.74	16.24	-5.89	12.78	17.00	-6.42	-6.16	28.34	11.26	23.74	2.09
1921.75	12.78	17.01	-2.85	13.86	17.81	-3.62	-3.24	10.41	12.03	5.78	2.03
1921.83	13.60	17.61	-3.44	14.64	18.38	-4.18	-3.82	18.45	12.56	14.21	1.98
1921.92	14.83	18.52	-1.22	15.78	19.22	-1.70	-1.46	13.47	13.84	8.77	1.87
1922.00	16.48	19.74	-2.15	17.18	20.25	-2.40	-2.28	13.69	15.31	8.01	1.75
1922.08	17.06	20.16	-3.44	18.12	20.95	-2.84	-3.13	18.62	15.83	12.76	1.70
1922.17	17.08	20.18	-5.59	18.15	20.97	-5.12	-5.35	22.90	15.47	15.84	1.73
1922.25	15.52	19.02	-5.71	16.76	19.94	-6.05	-5.88	37.57	14.57	30.53	1.80
1922.33	13.87	17.81	-10.91	14.99	18.63	-11.56	-11.24	71.68	12.83	65.00	1.94
1922.42	12.37	16.70	-8.06	13.38	17.45	-8.82	-8.45	34.53	11.17	28.90	2.10
1922.50	11.11	15.78	-10.07	12.19	16.57	-10.55	-10.32	49.43	10.68	44.03	2.13
1922.58	10.54	15.35	-9.96	11.69	16.20	-10.75	-10.37	62.09	10.36	57.27	2.16
1922.67	11.19	15.84	-7.01	12.27	16.63	-7.67	-7.35	49.32	10.60	44.95	2.14
1922.75	12.30	16.65	-4.59	13.21	17.32	-5.51	-5.06	18.58	11.47	14.11	2.08
1922.83	13.20	17.32	-0.63	14.22	18.07	-1.47	-1.06	7.85	12.18	3.67	2.02
1922.92	14.69	18.41	-3.53	15.75	19.20	-3.85	-3.69	11.59	13.56	6.91	1.90
1923.00	16.49	19.74	-2.77	17.21	20.27	-3.03	-2.90	14.63	15.28	8.92	1.75
1923.08	16.08	19.44	-1.90	17.25	20.30	-2.40	-2.16	14.16	15.18	8.57	1.76
1923.17	15.56	19.05	-4.63	16.81	19.98	-5.05	-4.84	14.01	14.51	7.45	1.82
1923.25	14.45	18.24	-6.45	15.71	19.16	-10.34	-8.44	29.22	13.71	22.65	1.88
1923.33	13.59	17.61	-7.15	14.86	18.54	-8.24	-7.71	46.75	12.61	40.15	1.97
1923.42	13.22	17.33	-8.78	14.09	17.97	-9.16	-8.97	53.09	12.07	46.80	2.01
1923.50	11.81	16.29	-11.28	12.78	17.00	-10.54	-10.90	64.34	10.85	58.75	2.11
1923.58	10.96	15.66	-8.73	11.94	16.39	-9.30	-9.02	40.03	10.06	35.32	2.19
1923.67	10.78	15.53	-6.08	11.84	16.32	-7.13	-6.62	21.67	10.29	17.40	2.18
1923.75	11.11	15.77	-5.79	12.32	16.66	-6.54	-6.18	11.43	10.58	7.34	2.16
1923.83	13.97	17.89	-3.90	14.88	18.55	-4.41	-4.16	16.94	12.68	12.48	1.97
1923.92	16.01	19.39	-5.04	16.58	19.81	-4.73	-4.88	19.80	14.30	14.74	1.83
1924.00	16.91	20.05	-3.04	17.57	20.54	-3.24	-3.14	21.01	15.32	15.26	1.75
1924.08	17.66	20.61	-3.98	18.06	20.90	-4.07	-4.03	11.41	15.49	5.65	1.73
1924.17	15.97	19.35	-3.47	17.13	20.21	-4.16	-3.82	21.97	14.62	15.34	1.81
1924.25	14.77	18.47	-4.81	16.00	19.38	-5.75	-5.29	17.47	13.69	10.89	1.89
1924.33	13.75	17.72	-7.14	15.09	18.71	-7.57	-7.36	45.51	12.75	38.80	1.96
1924.42	12.55	16.84	-9.21	13.65	17.65	-9.60	-9.41	67.69	11.77	61.58	2.03
1924.50	11.21	15.85	-9.48	12.33	16.67	-10.02	-9.76	61.83	10.62	56.38	2.14
1924.58	9.83	14.83	-6.85	11.20	15.84	-7.73	-7.30	20.88	9.14	16.68	2.28
1924.67	10.36	15.22	-5.62	11.34	15.94	-6.43	-6.03	12.59	9.45	8.74	2.25
1924.75	12.39	16.72	-6.51	13.74	17.72	-6.47	-6.49	27.15	11.97	22.35	2.03

1924.83	13.28	17.38	-3.25	14.20	18.06	-4.01	-3.64	14.05	12.55	9.64	1.99
1924.92	15.11	18.72	-4.58	16.02	19.40	-4.45	-4.51	17.12	14.01	12.18	1.86
1925.00	16.68	19.89	-2.34	17.30	20.34	-2.51	-2.43	15.49	15.46	9.82	1.73
1925.08	17.49	20.48	-3.61	18.12	20.94	-4.57	-4.10	25.02	16.32	19.02	1.66
1925.17	16.24	19.56	-5.00	17.19	20.26	-5.27	-5.14	23.18	15.30	16.33	1.75
1925.25	15.77	19.21	-5.67	16.48	19.74	-5.64	-5.65	44.99	14.69	37.99	1.79
1925.33	14.88	18.55	-8.51	15.79	19.22	-9.43	-8.98	72.41	13.75	65.24	1.86
1925.42	13.11	17.25	-8.91	14.06	17.95	-9.34	-9.13	55.16	12.15	49.03	2.01
1925.50	11.85	16.32	-9.11	12.77	17.00	-9.75	-9.44	31.17	10.85	25.80	2.13
1925.58	10.67	15.45	-8.67	11.73	16.23	-9.32	-9.00	25.57	9.73	21.24	2.22
1925.67	11.07	15.75	-6.55	12.13	16.53	-7.17	-6.87	25.29	10.56	21.05	2.15
1925.75	12.48	16.79	-4.14	13.31	17.39	-4.50	-4.32	15.69	11.82	11.14	2.05
1925.83	13.85	17.79	-4.96	14.93	18.59	-5.29	-5.13	14.73	12.98	10.28	1.95
1925.92	15.42	18.96	-4.95	16.52	19.77	-5.27	-5.11	18.50	14.00	13.70	1.86
1926.00	16.49	19.74	-4.10	17.39	20.41	-4.32	-4.21	11.93	15.31	6.24	1.75
1926.08	16.76	19.94	-2.33	17.43	20.44	-2.84	-2.59	12.92	15.17	7.37	1.76
1926.17	17.07	20.17	-5.05	18.12	20.94	-4.49	-4.76	36.24	15.86	28.94	1.69
1926.25	14.81	18.50	-5.83	15.95	19.35	-6.36	-6.10	29.33	13.94	22.67	1.86
1926.33	13.78	17.74	-9.06	14.91	18.57	-9.99	-9.54	60.44	12.65	53.87	1.96
1926.42	12.16	16.55	-9.90	13.47	17.51	-10.91	-10.42	39.48	11.38	33.70	2.08
1926.50	11.27	15.89	-9.02	12.25	16.62	-9.71	-9.37	48.09	10.67	42.68	2.14
1926.58	11.98	16.41	-7.12	12.83	17.04	-7.43	-7.28	23.30	10.95	18.11	2.12
1926.67	11.44	16.02	-5.59	12.40	16.72	-6.47	-6.04	27.21	11.05	22.58	2.11
1926.75	11.61	16.14	-4.13	12.56	16.85	-4.83	-4.49	19.19	10.70	15.09	2.14
1926.83	13.36	17.44	-2.84	14.38	18.18	-3.50	-3.18	11.07	12.42	6.78	2.00
1926.92	14.88	18.56	-1.95	15.69	19.15	-2.37	-2.16	14.55	13.65	9.82	1.89
1927.00	15.86	19.28	-3.33	16.54	19.78	-3.65	-3.49	11.73	14.43	6.43	1.82
1927.08	16.29	19.59	-4.14	16.91	20.05	-4.33	-4.24	19.07	15.00	13.57	1.77
1927.17	16.31	19.61	-3.43	17.20	20.26	-3.88	-3.66	14.85	15.15	7.93	1.76
1927.25	14.39	18.19	-7.69	15.27	18.84	-8.33	-8.02	33.70	13.26	27.41	1.92
1927.33	14.09	17.97	-7.98	14.98	18.63	-8.67	-8.33	58.02	12.52	51.50	1.97
1927.42	13.12	17.26	-11.35	14.08	17.96	-11.99	-11.68	74.96	12.19	68.61	2.00
1927.50	12.41	16.73	-10.95	13.30	17.39	-10.99	-10.97	79.39	11.53	73.37	2.05
1927.58	11.41	15.99	-8.62	12.36	16.70	-8.97	-8.80	74.56	10.78	69.43	2.12
1927.67	11.06	15.74	-3.69	12.18	16.56	-4.73	-4.22	18.80	10.20	14.58	2.19
1927.75	11.65	16.17	-5.30	12.90	17.09	-6.13	-5.73	24.37	10.98	20.10	2.12
1927.83	13.69	17.68	-2.70	14.75	18.46	-3.43	-3.07	9.36	12.96	4.79	1.95
1927.92	14.80	18.50	-3.00	15.90	19.31	-3.65	-3.33	15.42	13.74	10.62	1.88
1928.00	16.12	19.47	-3.11	17.00	20.12	-3.38	-3.25	9.10	15.00	3.66	1.78

1928.08	17.22	20.28	-1.42	18.13	20.95	-2.06	-1.75	14.54	16.25	8.57	1.67
1928.17	16.53	19.77	-3.06	17.43	20.44	-3.72	-3.40	16.18	15.19	9.40	1.76
1928.25	15.32	18.88	-5.28	16.28	19.59	-5.87	-5.58	15.89	14.21	9.20	1.84
1928.33	13.76	17.73	-8.91	14.80	18.49	-9.65	-9.29	28.49	12.88	21.93	1.95
1928.42	12.34	16.68	-9.66	13.67	17.66	-10.37	-10.03	40.39	11.59	34.63	2.06
1928.50	12.50	16.80	-8.61	13.56	17.58	-9.20	-8.91	47.77	11.69	41.85	2.05
1928.58	11.32	15.93	-8.72	12.15	16.54	-9.26	-9.00	36.15	10.97	31.10	2.11
1928.67	10.77	15.52	-5.16	11.83	16.30	-6.13	-5.66	19.09	10.53	14.87	2.16
1928.75	13.25	17.36	-4.48	14.35	18.16	-5.13	-4.81	20.32	12.40	15.48	2.00
1928.83	14.35	18.16	-2.21	15.13	18.74	-2.87	-2.55	22.62	13.25	18.06	1.92
1928.92	15.29	18.86	-1.82	15.94	19.34	-2.43	-2.13	10.48	14.22	5.60	1.84
1929.00	16.37	19.65	-2.25	17.36	20.38	-2.77	-2.51	20.73	14.75	15.26	1.79
1929.08	16.58	19.81	-4.61	17.22	20.28	-4.55	-4.58	10.51	15.06	4.95	1.77
1929.17	16.54	19.78	-2.31	17.04	20.15	-3.09	-2.70	12.22	15.34	5.16	1.75
1929.25	14.11	17.99	-7.06	15.13	18.74	-7.55	-7.31	21.95	13.34	15.57	1.91
1929.33	13.97	17.88	-9.62	15.01	18.65	-8.78	-9.19	43.31	12.82	36.55	1.95
1929.42	13.11	17.25	-8.71	14.02	17.92	-9.21	-8.96	57.55	12.35	51.04	1.99
1929.50	10.50	15.33	-7.96	11.72	16.22	-8.89	-8.44	17.92	9.83	12.97	2.22
1929.58	10.80	15.55	-8.08	11.87	16.34	-8.57	-8.33	25.93	9.95	21.26	2.21
1929.67	10.55	15.36	-6.00	11.60	16.14	-6.93	-6.48	14.60	9.82	10.55	2.22
1929.75	12.26	16.62	-4.61	13.01	17.17	-5.18	-4.90	14.97	11.37	10.47	2.09
1929.83	14.79	18.49	-3.01	15.56	19.06	-3.23	-3.12	17.31	13.47	12.49	1.91
1929.92	14.49	18.26	-0.93	15.34	18.89	-1.39	-1.16	11.33	13.27	6.71	1.92
1930.00	15.94	19.33	-1.57	16.89	20.04	-2.02	-1.80	17.93	14.53	12.62	1.81
1930.08	15.83	19.26	-3.25	16.90	20.04	-3.81	-3.54	19.68	14.46	14.46	1.82
1930.17	16.18	19.51	-3.40	16.91	20.05	-3.70	-3.55	12.41	15.06	5.60	1.77
1930.25	15.71	19.17	-7.15	16.76	19.94	-7.43	-7.29	24.70	14.39	17.77	1.82
1930.33	14.39	18.20	-7.10	15.94	19.34	-8.74	-7.94	24.34	13.43	17.26	1.91
1930.42	12.36	16.70	-9.41	13.56	17.58	-9.95	-9.69	26.96	11.37	21.21	2.08
1930.50	11.28	15.90	-9.87	12.25	16.62	-10.15	-10.01	61.26	10.73	55.83	2.13
1930.58	10.97	15.67	-7.92	11.95	16.39	-8.69	-8.31	37.69	10.52	32.76	2.15
1930.67	11.43	16.01	-5.44	12.24	16.60	-6.12	-5.79	27.08	10.99	22.49	2.12
1930.75	11.91	16.37	-6.13	12.83	17.04	-6.68	-6.41	25.28	11.39	20.85	2.08
1930.83	14.59	18.34	-2.16	15.08	18.70	-2.64	-2.40	11.95	13.20	7.32	1.93
1930.92	15.70	19.16	-2.24	16.28	19.59	-2.85	-2.55	11.45	14.25	6.46	1.84
1931.00	17.02	20.14	-1.28	17.83	20.73	-1.75	-1.52	13.86	15.67	8.13	1.72
1931.08	17.59	20.55	-4.77	18.59	21.29	-5.51	-5.15	19.40	16.06	13.54	1.68
1931.17	17.53	20.51	-3.28	18.30	21.07	-4.20	-3.75	51.15	16.06	43.89	1.67
1931.25	15.59	19.08	-4.43	16.43	19.70	-5.02	-4.73	17.57	14.14	10.96	1.85

1931.33	14.02	17.92	-8.34	14.96	18.61	-8.47	-8.41	45.52	13.05	38.88	1.93
1931.42	13.09	17.23	-8.41	13.96	17.87	-8.49	-8.45	45.32	12.08	39.27	2.02
1931.50	12.26	16.62	-10.67	13.16	17.29	-11.20	-10.94	72.15	11.23	66.58	2.08
1931.58	12.11	16.51	-7.56	12.95	17.13	-7.43	-7.49	45.15	11.17	40.01	2.09
1931.67	11.14	15.80	-6.78	12.14	16.54	-7.48	-7.14	41.31	10.58	37.09	2.15
1931.75	12.27	16.63	-3.98	12.94	17.13	-4.65	-4.32	9.32	11.49	4.98	2.08
1931.83	14.14	18.01	-3.54	14.94	18.60	-4.11	-3.83	14.77	12.95	10.37	1.95
1931.92	15.56	19.06	-2.79	16.52	19.76	-3.55	-3.18	12.13	14.58	7.11	1.81
1932.00	16.14	19.48	-2.77	17.32	20.35	-3.26	-3.02	14.94	14.84	9.50	1.79
1932.08	17.46	20.45	-2.83	18.57	21.27	-3.32	-3.08	17.22	16.12	11.23	1.68
1932.17	16.23	19.55	-3.58	17.37	20.39	-4.26	-3.93	9.31	15.13	2.47	1.77
1932.25	16.03	19.40	-3.84	17.01	20.13	-4.75	-4.30	22.17	14.67	15.08	1.80
1932.33	14.61	18.35	-7.56	15.69	19.15	-7.97	-7.77	44.67	13.57	37.51	1.89
1932.42	13.37	17.44	-9.81	14.16	18.02	-10.17	-9.99	81.10	12.66	74.51	1.95
1932.50	10.72	15.49	-9.30	11.96	16.40	-9.80	-9.56	41.71	10.09	36.71	2.19
1932.58	11.38	15.97	-6.09	12.25	16.61	-6.88	-6.49	22.55	10.48	17.67	2.16
1932.67	11.61	16.14	-6.71	12.41	16.74	-7.37	-7.05	32.23	10.93	27.69	2.12
1932.75	11.76	16.25	-2.27	12.75	16.99	-3.03	-2.66	13.50	10.70	9.42	2.14
1932.83	13.31	17.40	-4.38	14.36	18.17	-5.23	-4.81	13.55	12.02	9.46	2.03
1932.92	14.53	18.30	-4.73	15.44	18.97	-5.12	-4.93	11.11	13.30	6.55	1.92
1933.00	16.82	19.98	-2.63	17.66	20.60	-3.30	-2.97	19.19	15.47	13.50	1.73
1933.08	17.86	20.75	-2.43	18.64	21.33	-2.85	-2.64	16.96	16.19	10.98	1.67
1933.17	16.59	19.81	-3.94	17.46	20.46	-4.43	-4.19	14.68	15.22	7.84	1.76
1933.25	15.77	19.21	-8.17	16.78	19.96	-8.52	-8.35	84.96	14.77	77.87	1.77
1933.33	14.63	18.37	-8.47	15.60	19.09	-8.72	-8.60	94.51	13.71	87.33	1.86
1933.42	12.73	16.97	-10.94	13.74	17.72	-11.52	-11.24	76.80	12.23	70.57	1.99
1933.50	11.89	16.35	-9.26	12.79	17.01	-9.66	-9.46	42.57	11.35	36.82	2.08
1933.58	10.93	15.64	-7.91	11.87	16.34	-8.66	-8.29	35.77	10.62	30.87	2.14
1933.67	10.87	15.60	-5.36	11.84	16.31	-6.14	-5.76	20.54	10.41	16.34	2.17
1933.75	11.72	16.22	-5.14	12.65	16.91	-5.71	-5.43	16.89	11.09	12.68	2.11
1933.83	12.93	17.12	-5.32	13.83	17.78	-6.02	-5.68	14.36	12.00	10.32	2.03
1933.92	14.88	18.56	-2.63	15.68	19.14	-3.01	-2.82	10.37	13.39	5.82	1.91
1934.00	16.13	19.47	-2.45	17.16	20.23	-2.75	-2.60	11.45	14.98	5.96	1.78
1934.08	16.92	20.06	-0.94	17.98	20.84	-1.50	-1.23	15.14	15.96	9.26	1.69
1934.17	15.56	19.06	-5.63	16.66	19.87	-6.10	-5.87	20.98	14.48	14.55	1.82
1934.25	15.11	18.72	-9.81	16.16	19.50	-8.75	-9.27	39.83	13.88	33.27	1.86
1934.33	14.57	18.33	-9.76	15.63	19.11	-10.33	-10.05	77.13	13.46	70.09	1.89
1934.42	12.96	17.14	-10.90	14.09	17.97	-11.62	-11.27	58.86	12.30	52.54	1.99
1934.50	12.17	16.56	-9.04	12.96	17.14	-9.63	-9.34	55.16	11.43	49.33	2.07



1934.58	10.67	15.45	-8.84	11.48	16.04	-9.10	-8.97	33.61	10.39	28.82	2.16
1934.67	11.51	16.07	-6.50	12.36	16.70	-6.84	-6.67	25.35	10.98	20.81	2.12
1934.75	11.86	16.33	-6.41	12.73	16.97	-6.32	-6.36	29.93	11.09	25.69	2.11
1934.83	13.45	17.50	-2.80	14.44	18.23	-3.55	-3.18	12.70	12.48	8.43	1.99
1934.92	15.50	19.01	-3.47	16.30	19.60	-3.81	-3.64	9.86	14.43	4.83	1.83
1935.00	16.46	19.72	-2.37	17.30	20.34	-2.52	-2.45	11.15	15.05	5.59	1.77
1935.08	16.12	19.47	-3.26	17.08	20.18	-3.60	-3.43	9.68	14.79	4.31	1.79
1935.17	16.08	19.44	-3.53	16.93	20.07	-4.10	-3.82	14.14	14.93	7.39	1.78
1935.25	15.24	18.82	-6.42	16.19	19.52	-7.05	-6.74	45.84	14.27	38.98	1.83
1935.33	14.52	18.29	-7.71	15.58	19.07	-8.49	-8.11	61.15	13.49	54.02	1.89
1935.42	13.45	17.50	-11.14	14.61	18.35	-10.90	-11.02	106.79	12.71	100.13	1.94
1935.50	12.28	16.64	-12.05	13.17	17.29	-12.47	-12.26	84.72	11.67	78.67	2.04
1935.58	11.23	15.86	-7.21	12.20	16.58	-8.32	-7.78	33.38	10.73	28.33	2.14
1935.67	10.30	15.18	-7.64	11.56	16.11	-8.36	-8.01	15.96	9.69	12.05	2.23
1935.75	12.21	16.58	-3.89	13.08	17.23	-4.74	-4.32	13.40	11.44	8.93	2.08
1935.83	12.94	17.12	-3.58	13.93	17.85	-4.46	-4.03	11.84	11.98	7.74	2.03
1935.92	14.42	18.21	-3.25	15.40	18.94	-3.69	-3.47	11.54	13.29	6.97	1.92
1936.00	16.51	19.76	-3.09	17.18	20.25	-3.46	-3.28	13.44	15.33	7.80	1.75
1936.08	17.02	20.13	-2.81	17.63	20.58	-3.29	-3.05	25.30	15.97	19.43	1.69
1936.17	16.51	19.76	-3.13	17.44	20.45	-3.82	-3.48	14.95	15.24	8.09	1.75
1936.25	16.40	19.68	-6.11	17.06	20.16	-6.56	-6.34	31.23	14.90	24.06	1.78
1936.33	14.36	18.17	-7.72	15.38	18.92	-9.57	-8.66	41.22	13.13	34.42	1.93
1936.42	12.30	16.65	-9.11	13.32	17.40	-9.37	-9.24	44.40	11.49	38.64	2.07
1936.50	10.96	15.66	-8.75	12.08	16.49	-9.32	-9.04	38.55	10.54	33.32	2.15
1936.58	11.20	15.84	-6.67	12.25	16.61	-7.48	-7.08	28.44	10.79	23.42	2.13
1936.67	10.21	15.11	-6.08	11.49	16.05	-6.66	-6.38	24.87	9.91	20.91	2.21
1936.75	12.36	16.69	-5.52	13.19	17.31	-5.96	-5.74	31.18	11.96	26.51	2.03
1936.83	13.51	17.54	-4.80	14.55	18.31	-5.61	-5.21	21.84	12.81	17.43	1.96
1936.92	15.28	18.85	-2.00	16.04	19.41	-2.41	-2.21	12.68	14.00	7.85	1.86
1937.00	16.50	19.75	-2.41	17.30	20.34	-2.67	-2.54	15.94	15.02	10.53	1.77
1937.08	17.79	20.70	-2.53	18.10	20.93	-2.62	-2.58	11.41	16.21	5.50	1.67
1937.17	16.74	19.93	-2.70	17.51	20.50	-3.52	-3.12	16.24	15.63	9.25	1.72
1937.25	14.86	18.54	-4.83	16.32	19.62	-5.35	-5.10	29.90	14.19	23.27	1.84
1937.33	14.39	18.19	-8.41	15.30	18.86	-8.74	-8.58	103.54	13.32	96.73	1.89
1937.42	13.19	17.31	-9.38	13.90	17.83	-9.89	-9.64	64.94	12.41	58.69	1.98
1937.50	11.46	16.03	-8.70	12.41	16.73	-9.54	-9.13	33.86	10.65	28.68	2.14
1937.58	12.05	16.47	-8.90	12.83	17.04	-9.26	-9.08	48.85	11.30	43.65	2.08
1937.67	12.39	16.72	-4.44	13.30	17.39	-5.25	-4.85	23.20	12.06	18.20	2.02
1937.75	12.75	16.98	-2.13	13.54	17.56	-2.90	-2.52	9.43	11.68	5.00	2.06

1937.83	13.74	17.71	-2.94	14.36	18.17	-3.91	-3.43	14.12	12.95	9.73	1.95
1937.92	15.28	18.85	-2.86	16.27	19.58	-3.18	-3.02	20.62	14.23	15.77	1.84
1938.00	16.10	19.45	-2.78	16.90	20.05	-3.02	-2.90	16.31	14.83	11.00	1.79
1938.08	16.79	19.97	-2.81	17.67	20.61	-3.24	-3.03	11.57	15.44	6.03	1.74
1938.17	16.22	19.54	-4.08	17.14	20.22	-4.52	-4.30	22.05	15.10	15.39	1.76
1938.25	16.64	19.85	-7.57	17.24	20.30	-6.89	-7.23	61.84	15.01	54.71	1.76
1938.33	15.64	19.11	-8.41	16.68	19.88	-9.06	-8.74	71.40	14.77	63.61	1.78
1938.42	13.58	17.59	-9.57	14.58	18.33	-9.89	-9.73	49.46	12.88	42.91	1.95
1938.50	12.44	16.75	-9.33	13.27	17.37	-9.29	-9.31	62.13	11.72	56.27	2.04
1938.58	11.38	15.97	-7.83	12.44	16.76	-7.93	-7.88	45.56	10.66	40.76	2.14
1938.67	11.07	15.75	-5.38	12.25	16.61	-5.81	-5.60	14.86	10.50	10.71	2.16
1938.75	13.06	17.21	-2.45	13.85	17.79	-3.33	-2.90	11.61	12.20	6.93	2.02
1938.83	13.77	17.74	-2.61	14.70	18.42	-2.95	-2.78	9.42	12.75	5.13	1.97
1938.92	15.47	18.99	-2.41	16.31	19.61	-2.62	-2.52	11.69	14.23	6.84	1.84
1939.00	16.26	19.58	-1.78	17.13	20.21	-1.91	-1.85	14.04	15.39	8.42	1.74
1939.08	16.79	19.96	-1.98	17.73	20.66	-2.66	-2.33	11.82	15.98	5.98	1.69
1939.17	16.29	19.59	-4.98	17.60	20.56	-5.31	-5.15	25.02	14.79	18.49	1.79
1939.25	15.40	18.94	-6.00	16.46	19.72	-7.27	-6.65	27.11	14.35	20.34	1.83
1939.33	14.87	18.55	-7.20	15.73	19.18	-7.68	-7.44	31.82	13.94	24.54	1.86
1939.42	13.09	17.24	-9.30	14.26	18.10	-9.83	-9.57	58.85	12.49	52.51	1.98
1939.50	11.31	15.92	-9.07	12.67	16.92	-9.70	-9.39	33.24	10.89	27.86	2.12
1939.58	11.26	15.89	-10.71	12.42	16.74	-11.36	-11.04	69.58	10.90	64.57	2.11
1939.67	11.43	16.01	-6.74	12.51	16.80	-7.55	-7.15	27.19	10.85	22.81	2.13
1939.75	12.49	16.79	-5.32	13.27	17.36	-5.81	-5.57	20.21	11.87	15.65	2.04
1939.83	13.94	17.86	-3.99	14.82	18.51	-4.27	-4.13	9.81	12.53	5.58	1.99
1939.92	15.20	18.79	-2.14	16.13	19.48	-2.53	-2.34	13.66	14.41	8.69	1.83
1940.00	17.36	20.38	-3.20	17.86	20.75	-3.16	-3.18	10.23	15.41	4.64	1.74
1940.08	16.57	19.80	-2.87	17.41	20.42	-2.99	-2.93	17.11	15.27	11.65	1.75
1940.17	16.14	19.49	-4.25	17.06	20.16	-4.93	-4.60	10.49	15.01	3.87	1.78
1940.25	15.83	19.26	-5.04	16.67	19.88	-4.75	-4.89	43.19	13.92	36.73	1.86
1940.33	14.37	18.18	-7.85	15.25	18.83	-8.52	-8.19	40.91	13.44	34.03	1.90
1940.42	12.54	16.83	-10.26	13.46	17.51	-10.11	-10.18	49.01	11.92	43.10	2.03
1940.50	11.69	16.20	-9.39	12.77	17.00	-9.93	-9.67	66.07	11.05	60.64	2.10
1940.58	11.28	15.90	-8.45	12.27	16.63	-8.96	-8.71	34.29	10.90	29.34	2.12
1940.67	12.25	16.61	-6.31	13.10	17.24	-6.95	-6.64	31.04	11.94	26.10	2.03
1940.75	12.66	16.92	-4.90	13.80	17.76	-5.84	-5.38	16.90	12.10	12.26	2.02
1940.83	14.83	18.51	-3.13	15.85	19.27	-3.80	-3.47	10.89	14.00	6.03	1.86
1940.92	16.25	19.57	-1.42	17.04	20.15	-2.19	-1.81	14.21	14.98	9.02	1.78
1941.00	17.45	20.45	-3.88	18.40	21.15	-4.16	-4.02	20.44	16.57	14.38	1.64

1941.08	17.70	20.64	-3.05	18.30	21.08	-3.36	-3.21	23.84	16.53	17.87	1.64
1941.17	17.21	20.28	-5.28	18.00	20.86	-5.97	-5.63	41.99	15.94	34.93	1.68
1941.25	16.12	19.47	-4.04	16.99	20.11	-4.61	-4.33	22.89	14.81	16.01	1.79
1941.33	15.09	18.71	-8.66	15.97	19.36	-8.72	-8.69	62.00	13.77	55.04	1.86
1941.42	13.77	17.74	-8.78	14.56	18.32	-9.23	-9.01	54.53	12.52	48.36	1.97
1941.50	12.27	16.63	-10.01	13.33	17.41	-10.60	-10.31	70.14	11.46	64.59	2.06
1941.58	11.44	16.02	-6.72	12.27	16.63	-7.31	-7.02	37.16	11.07	32.23	2.10
1941.67	11.55	16.10	-5.67	12.55	16.84	-6.59	-6.14	23.98	11.13	19.61	2.10
1941.75	12.57	16.85	-4.04	13.77	17.73	-4.87	-4.47	26.58	12.21	22.01	2.01
1941.83	14.20	18.05	-2.31	15.15	18.76	-2.96	-2.64	10.38	13.20	5.98	1.93
1941.92	15.86	19.28	-2.46	16.61	19.83	-2.96	-2.71	7.28	14.41	2.44	1.83
1942.00	17.10	20.19	-2.29	17.96	20.82	-2.92	-2.61	13.10	15.93	7.40	1.70
1942.08	17.67	20.61	-2.73	18.42	21.16	-2.78	-2.76	31.40	16.70	25.38	1.62
1942.17	17.02	20.13	-2.90	17.85	20.74	-3.42	-3.16	19.26	15.97	12.24	1.69
1942.25	15.85	19.27	-6.10	16.96	20.09	-6.53	-6.32	60.94	14.77	54.14	1.78
1942.33	16.18	19.51	-8.54	17.35	20.37	-8.66	-8.60	63.41	15.13	55.56	1.75
1942.42	13.90	17.83	-9.27	14.72	18.44	-9.56	-9.42	80.56	13.33	73.91	1.90
1942.50	12.53	16.82	-9.21	13.45	17.50	-10.05	-9.64	48.07	12.13	42.14	2.01
1942.58	12.43	16.74	-9.83	13.36	17.43	-10.17	-10.00	75.32	12.03	69.87	2.01
1942.67	11.93	16.38	-5.61	12.90	17.10	-6.29	-5.96	18.83	11.36	14.39	2.09
1942.75	12.54	16.83	-3.37	13.58	17.59	-4.01	-3.70	14.95	11.70	10.69	2.06
1942.83	13.81	17.76	-4.35	14.71	18.43	-4.96	-4.66	16.22	12.87	12.01	1.96
1942.92	15.09	18.71	-3.63	16.17	19.51	-4.26	-3.95	13.89	13.75	9.40	1.88
1943.00	16.39	19.67	-3.03	17.03	20.14	-3.25	-3.14	12.35	15.08	6.88	1.77
1943.08	17.10	20.19	-3.33	17.75	20.67	-3.53	-3.43	8.50	15.96	2.68	1.69
1943.17	17.14	20.22	-4.41	17.84	20.74	-3.89	-4.15	23.87	15.83	16.72	1.70
1943.25	16.44	19.70	-4.14	17.05	20.16	-4.62	-4.38	10.82	15.31	3.44	1.75
1943.33	14.67	18.40	-9.86	15.76	19.20	-9.78	-9.82	107.18	13.96	99.88	1.83
1943.42	12.85	17.06	-11.64	13.96	17.87	-11.35	-11.49	60.09	12.11	53.99	2.01
1943.50	11.44	16.02	-8.82	12.57	16.85	-9.30	-9.07	39.73	10.97	34.30	2.11
1943.58	11.52	16.07	-6.98	12.73	16.97	-7.83	-7.42	24.86	10.87	19.87	2.13
1943.67	11.04	15.72	-5.73	12.20	16.58	-6.47	-6.11	17.97	10.51	13.76	2.16
1943.75	11.76	16.25	-3.96	12.80	17.02	-4.56	-4.27	8.89	10.88	4.82	2.13
1943.83	13.73	17.70	-3.57	14.56	18.32	-3.79	-3.68	21.21	12.40	17.03	2.00
1943.92	15.19	18.78	-3.28	16.02	19.39	-3.64	-3.46	17.40	14.15	12.55	1.85
1944.00	17.10	20.19	-2.95	17.87	20.76	-3.23	-3.09	12.54	15.80	6.93	1.71
1944.08	18.63	21.32	-4.59	19.09	21.66	-4.40	-4.49	14.61	16.96	8.50	1.61
1944.17	16.81	19.98	-3.28	17.64	20.59	-3.60	-3.44	21.06	15.55	14.33	1.73
1944.25	16.22	19.54	-8.25	17.26	20.31	-7.83	-8.04	58.70	15.11	51.73	1.75

1944.33	15.40	18.94	-8.71	16.22	19.54	-8.48	-8.59	52.60	14.13	45.51	1.84
1944.42	14.70	18.42	-9.16	15.80	19.24	-10.02	-9.60	77.88	13.66	71.06	1.87
1944.50	12.77	17.00	-9.68	13.77	17.74	-9.75	-9.72	55.79	12.03	49.98	2.02
1944.58	11.87	16.33	-9.38	12.87	17.07	-9.83	-9.61	52.65	11.17	47.77	2.09
1944.67	12.24	16.60	-6.36	13.42	17.47	-6.92	-6.65	23.74	11.51	19.26	2.07
1944.75	13.19	17.31	-4.18	14.07	17.95	-4.82	-4.51	20.74	12.42	16.15	1.99
1944.83	14.36	18.17	-3.31	15.23	18.81	-3.89	-3.61	11.42	13.60	6.92	1.90
1944.92	15.98	19.37	-1.95	16.62	19.84	-1.94	-1.94	12.36	15.03	7.31	1.77
1945.00	17.44	20.44	-4.41	17.95	20.82	-4.63	-4.52	7.08	16.01	1.32	1.69
1945.08	17.71	20.64	-3.25	18.32	21.09	-3.30	-3.28	14.78	16.39	8.91	1.65
1945.17	16.84	20.00	-2.90	17.81	20.72	-3.33	-3.12	14.84	15.76	7.93	1.71
1945.25	16.58	19.81	-4.71	17.35	20.37	-5.29	-5.00	20.87	15.71	13.45	1.71
1945.33	14.52	18.29	-7.45	15.58	19.07	-7.74	-7.60	44.03	13.73	37.14	1.87
1945.42	13.04	17.20	-10.18	14.08	17.96	-10.50	-10.34	68.13	12.64	61.93	1.96
1945.50	12.57	16.85	-13.45	13.71	17.69	-13.12	-13.28	99.59	11.98	93.74	2.01
1945.58	12.51	16.80	-7.55	13.46	17.51	-8.33	-7.95	39.37	11.94	33.96	2.03
1945.67	11.81	16.29	-8.18	12.92	17.11	-9.11	-8.66	37.18	11.38	32.71	2.08
1945.75	12.85	17.06	-4.43	13.76	17.73	-4.98	-4.71	22.10	12.19	17.57	2.01
1945.83	14.02	17.92	-4.45	14.84	18.52	-5.10	-4.78	11.30	12.95	7.04	1.95
1945.92	15.68	19.14	-3.53	16.40	19.67	-3.80	-3.67	12.35	14.45	7.53	1.82
1946.00	16.86	20.02	-1.86	17.65	20.60	-2.40	-2.13	5.35	15.81	-0.47	1.71
1946.08	17.24	20.29	-2.03	18.16	20.97	-2.59	-2.31	8.79	16.15	2.88	1.68
1946.17	17.66	20.61	-4.52	18.26	21.05	-4.03	-4.27	32.62	16.05	25.35	1.68
1946.25	15.26	18.83	-7.67	16.30	19.60	-8.15	-7.91	45.57	14.28	38.85	1.83
1946.33	13.89	17.82	-11.98	14.99	18.63	-12.58	-12.29	87.55	13.10	80.85	1.91
1946.42	13.08	17.22	-9.00	14.29	18.12	-9.61	-9.31	53.64	11.86	47.72	2.03
1946.50	12.12	16.52	-10.78	13.51	17.54	-11.30	-11.05	56.04	10.96	50.62	2.11
1946.58	10.75	15.51	-7.33	11.93	16.38	-8.15	-7.75	24.30	10.18	19.73	2.19
1946.67	11.33	15.94	-5.20	12.26	16.62	-5.83	-5.52	18.14	10.64	13.87	2.15
1946.75	12.83	17.04	-4.92	13.81	17.77	-5.74	-5.34	13.15	12.28	8.39	2.01
1946.83	14.41	18.21	-2.69	15.31	18.87	-3.41	-3.06	14.37	13.30	9.80	1.92
1946.92	14.80	18.50	-4.44	15.74	19.19	-5.17	-4.81	10.78	13.69	6.14	1.89
1947.00	16.98	20.10	-3.69	17.71	20.64	-3.91	-3.80	16.40	15.52	10.67	1.73
1947.08	16.46	19.72	-4.32	17.11	20.20	-4.80	-4.56	22.97	15.54	17.29	1.73
1947.17	16.49	19.74	-3.81	17.29	20.33	-4.52	-4.17	13.53	14.99	6.81	1.78
1947.25	14.98	18.63	-8.80	16.03	19.40	-9.08	-8.94	53.13	14.38	46.27	1.82
1947.33	13.91	17.84	-8.86	14.95	18.61	-9.01	-8.94	86.67	12.92	80.00	1.93
1947.42	12.42	16.74	-9.38	13.53	17.56	-9.94	-9.67	46.96	11.65	41.08	2.05
1947.50	12.22	16.59	-9.19	13.02	17.18	-9.72	-9.46	41.15	11.82	35.07	2.04

1947.58	11.06	15.73	-8.69	12.07	16.48	-9.41	-9.06	30.01	10.28	25.30	2.18
1947.67	11.44	16.02	-5.02	12.57	16.85	-5.90	-5.47	13.71	10.74	9.31	2.14
1947.75	12.19	16.57	-4.44	12.96	17.14	-5.06	-4.76	9.13	11.36	4.76	2.09
1947.83	13.97	17.88	-2.77	14.66	18.39	-3.36	-3.07	9.46	12.77	5.07	1.97
1947.92	15.50	19.01	-2.63	16.29	19.59	-3.25	-2.94	16.41	14.03	11.56	1.86
1948.00	16.39	19.67	-2.35	16.90	20.05	-2.48	-2.42	8.06	15.03	2.73	1.77
1948.08	16.91	20.05	-2.92	17.96	20.83	-3.47	-3.20	11.76	15.82	6.11	1.71
1948.17	17.68	20.62	-3.84	18.66	21.35	-4.14	-3.99	33.74	16.81	26.13	1.61
1948.25	16.62	19.84	-8.04	17.58	20.54	-7.74	-7.89	62.64	15.76	55.12	1.69
1948.33	14.87	18.55	-8.28	15.83	19.26	-8.45	-8.37	41.40	13.70	34.45	1.88
1948.42	13.30	17.39	-12.43	14.55	18.31	-12.16	-12.29	99.23	12.40	93.11	1.97
1948.50	11.92	16.37	-10.56	13.06	17.21	-10.99	-10.78	79.55	11.23	74.12	2.08
1948.58	11.27	15.89	-8.96	12.25	16.62	-9.55	-9.26	58.54	11.12	53.56	2.09
1948.67	12.40	16.73	-5.55	13.31	17.40	-6.27	-5.92	30.75	12.02	25.87	2.02
1948.75	12.92	17.11	-4.34	13.75	17.72	-4.98	-4.67	19.26	12.19	14.68	2.01
1948.83	13.98	17.89	-1.95	14.91	18.58	-2.55	-2.26	9.71	13.07	5.35	1.94
1948.92	15.27	18.84	-3.87	16.02	19.40	-3.97	-3.92	8.24	13.92	3.61	1.87
1949.00	17.27	20.31	-3.01	18.07	20.91	-3.29	-3.15	9.65	16.03	3.79	1.69
1949.08	17.62	20.58	-3.40	18.26	21.05	-3.60	-3.50	7.00	16.06	1.21	1.69
1949.17	16.64	19.85	-4.96	17.52	20.50	-5.24	-5.10	13.87	15.57	6.97	1.73
1949.25	15.82	19.25	-5.42	16.74	19.93	-6.22	-5.83	16.21	14.66	9.35	1.80
1949.33	14.26	18.10	-8.41	15.09	18.71	-8.59	-8.50	50.06	13.37	43.29	1.90
1949.42	13.29	17.38	-9.89	14.32	18.14	-10.01	-9.95	78.04	12.53	71.78	1.97
1949.50	11.94	16.39	-12.29	13.00	17.17	-12.62	-12.46	84.64	11.70	78.84	2.03
1949.58	11.43	16.01	-9.10	12.50	16.80	-9.10	-9.10	41.43	10.91	36.53	2.12
1949.67	12.46	16.77	-6.73	13.41	17.47	-7.30	-7.02	42.69	12.03	37.76	2.02
1949.75	12.60	16.87	-3.97	13.75	17.72	-4.77	-4.38	14.99	12.15	10.38	2.02
1949.83	13.29	17.38	-4.04	14.20	18.05	-4.78	-4.42	6.41	12.14	2.43	2.02
1949.92	15.87	19.28	-4.08	16.56	19.79	-4.42	-4.25	10.90	14.38	6.02	1.83
1950.00	17.44	20.45	-3.69	17.99	20.85	-3.45	-3.57	16.74	16.21	10.84	1.67
1950.08	17.62	20.58	-3.57	18.32	21.09	-3.51	-3.54	15.71	16.69	9.64	1.63
1950.17	16.79	19.96	-5.34	17.74	20.67	-5.72	-5.53	8.50	15.81	1.51	1.71
1950.25	15.94	19.34	-4.31	17.09	20.18	-4.91	-4.62	18.66	14.69	11.84	1.80
1950.33	15.11	18.72	-8.54	16.21	19.53	-9.05	-8.80	60.59	14.11	53.38	1.84
1950.42	13.55	17.57	-9.15	14.54	18.31	-9.43	-9.29	71.39	13.61	64.47	1.88
1950.50	11.97	16.41	-10.01	13.25	17.35	-10.30	-10.16	65.29	11.37	59.77	2.07
1950.58	11.90	16.36	-7.89	13.51	17.54	-9.68	-8.82	50.55	11.22	45.52	2.09
1950.67	11.87	16.33	-7.32	12.97	17.14	-7.77	-7.55	32.64	11.28	28.17	2.09
1950.75	12.23	16.60	-4.27	13.17	17.29	-4.72	-4.50	21.13	11.44	16.93	2.08

1950.83	13.68	17.67	-3.12	14.46	18.24	-3.81	-3.47	16.56	12.90	12.28	1.95
1950.92	15.15	18.75	-2.98	15.77	19.21	-3.26	-3.12	14.03	13.93	9.40	1.87
1951.00	16.07	19.43	-1.82	16.59	19.82	-2.27	-2.05	9.43	15.15	3.91	1.76
1951.08	16.27	19.58	-2.57	17.02	20.13	-3.05	-2.81	12.30	14.98	6.92	1.78
1951.17	16.67	19.87	-8.07	17.06	20.16	-6.93	-7.50	30.01	15.44	23.07	1.73
1951.25	15.03	18.66	-5.98	15.88	19.29	-6.23	-6.11	37.73	14.13	31.08	1.84
1951.33	13.93	17.85	-8.82	14.84	18.53	-9.06	-8.94	43.11	13.01	36.44	1.94
1951.42	12.58	16.85	-8.89	13.66	17.66	-10.00	-9.46	27.28	11.92	21.29	2.04
1951.50	11.54	16.09	-8.35	12.40	16.73	-8.84	-8.60	31.15	10.42	26.05	2.16
1951.58	12.17	16.55	-7.72	12.65	16.91	-8.22	-7.97	37.93	11.44	32.57	2.07
1951.67	12.57	16.85	-5.19	13.25	17.35	-5.34	-5.27	27.67	12.04	22.62	2.02
1951.75	13.57	17.59	-4.88	14.42	18.21	-5.19	-5.04	25.31	12.50	20.41	1.99
1951.83	13.66	17.65	-2.14	14.60	18.35	-2.78	-2.47	12.84	12.94	8.41	1.95
1951.92	15.04	18.67	-3.36	15.79	19.22	-3.69	-3.53	12.17	13.95	7.40	1.87
1952.00	17.10	20.19	-2.09	17.76	20.68	-2.60	-2.35	8.89	15.67	3.16	1.72
1952.08	17.49	20.48	-3.12	18.33	21.10	-3.86	-3.50	15.69	16.23	9.76	1.67
1952.17	17.14	20.22	-6.93	17.69	20.63	-7.25	-7.09	44.30	15.92	37.13	1.69
1952.25	16.38	19.66	-5.67	17.04	20.15	-5.82	-5.75	21.11	14.88	14.03	1.78
1952.33	14.88	18.56	-11.03	16.06	19.43	-10.82	-10.92	109.53	14.52	101.88	1.78
1952.42	12.12	16.52	-9.69	13.34	17.42	-10.28	-9.99	44.32	11.25	38.82	2.09
1952.50	12.12	16.52	-10.86	13.23	17.34	-11.49	-11.18	80.61	11.32	74.98	2.07
1952.58	12.19	16.57	-8.28	13.01	17.18	-8.69	-8.49	58.16	11.72	52.68	2.04
1952.67	10.83	15.57	-6.40	12.01	16.44	-7.05	-6.73	21.64	9.93	17.76	2.21
1952.75	12.00	16.43	-3.95	12.92	17.11	-4.48	-4.22	18.37	11.00	14.27	2.12
1952.83	14.49	18.26	-2.15	15.25	18.82	-2.65	-2.40	11.61	13.05	7.16	1.94
1952.92	15.00	18.65	-3.04	15.86	19.28	-3.62	-3.33	13.09	13.45	8.58	1.91
1953.00	17.37	20.39	-4.96	17.69	20.63	-4.48	-4.72	13.47	15.11	8.02	1.77
1953.08	17.79	20.70	-1.94	18.44	21.18	-2.34	-2.14	9.20	16.41	3.19	1.66
1953.17	16.24	19.56	-4.52	16.96	20.09	-4.60	-4.56	13.01	15.00	6.39	1.78
1953.25	15.34	18.89	-6.67	16.14	19.48	-6.87	-6.77	34.73	14.35	28.01	1.82
1953.33	14.78	18.48	-7.40	15.96	19.35	-8.17	-7.79	30.30	13.53	23.35	1.90
1953.42	13.54	17.57	-10.62	14.49	18.27	-10.54	-10.58	82.88	12.72	76.42	1.95
1953.50	12.03	16.45	-9.80	13.13	17.26	-9.80	-9.80	63.06	11.19	57.52	2.09
1953.58	11.59	16.13	-7.26	12.57	16.85	-7.64	-7.45	41.81	11.17	36.68	2.09
1953.67	12.00	16.43	-5.80	13.00	17.17	-6.39	-6.10	31.88	11.67	27.09	2.05
1953.75	12.69	16.94	-3.92	13.61	17.62	-4.47	-4.20	10.86	11.78	6.39	2.05
1953.83	13.92	17.84	-4.05	14.89	18.56	-4.76	-4.41	12.60	12.86	8.25	1.96
1953.92	15.14	18.75	-2.70	15.99	19.38	-3.11	-2.91	6.35	14.00	1.60	1.86
1954.00	16.92	20.06	-2.43	17.50	20.48	-2.58	-2.51	13.27	15.34	7.66	1.75

1954.08	17.07	20.17	-4.81	17.86	20.75	-5.23	-5.02	20.34	15.52	14.72	1.73
1954.17	16.52	19.76	-3.97	17.45	20.45	-4.63	-4.31	11.10	15.60	4.06	1.72
1954.25	15.86	19.28	-5.91	16.82	19.98	-6.69	-6.31	28.93	14.73	21.90	1.79
1954.33	15.54	19.04	-8.71	16.20	19.53	-8.62	-8.66	72.36	14.75	64.49	1.78
1954.42	13.40	17.46	-10.21	14.33	18.15	-10.06	-10.13	24.67	11.83	18.73	2.04
1954.50	11.53	16.09	-12.37	12.54	16.83	-12.19	-12.28	54.44	10.75	49.12	2.13
1954.58	11.22	15.86	-7.83	12.17	16.56	-8.13	-7.98	35.78	10.82	30.79	2.13
1954.67	11.06	15.74	-6.52	12.02	16.44	-7.35	-6.94	20.26	10.62	15.97	2.15
1954.75	12.06	16.47	-4.25	13.11	17.25	-4.98	-4.62	14.05	11.59	9.61	2.07
1954.83	13.10	17.24	-4.16	14.00	17.91	-4.81	-4.49	12.66	12.16	8.58	2.02
1954.92	15.57	19.06	-2.85	15.98	19.37	-3.07	-2.96	8.46	13.77	3.76	1.88
1955.00	17.67	20.62	-1.92	18.15	20.97	-2.12	-2.02	12.97	16.39	6.88	1.66
1955.08	17.02	20.13	-3.75	17.70	20.63	-4.03	-3.89	13.53	15.56	7.91	1.73
1955.17	16.97	20.10	-2.68	17.80	20.71	-3.17	-2.93	11.00	15.68	3.95	1.72
1955.25	15.89	19.30	-7.15	16.98	20.10	-6.93	-7.04	73.05	14.75	66.04	1.78
1955.33	14.18	18.04	-9.79	15.14	18.74	-9.75	-9.77	64.83	13.37	57.95	1.90
1955.42	13.64	17.64	-11.13	14.59	18.34	-11.32	-11.23	108.99	13.00	102.31	1.91
1955.50	11.07	15.74	-11.16	12.35	16.69	-11.86	-11.52	59.24	10.59	54.07	2.14
1955.58	10.84	15.58	-8.46	11.84	16.31	-8.81	-8.64	26.72	10.34	22.06	2.17
1955.67	11.33	15.93	-5.02	12.36	16.69	-5.69	-5.36	23.66	10.70	19.36	2.14
1955.75	11.96	16.40	-3.32	12.86	17.06	-4.16	-3.75	14.30	11.39	9.99	2.08
1955.83	13.61	17.61	-2.46	14.36	18.17	-3.03	-2.75	14.70	12.46	10.51	1.99
1955.92	15.20	18.79	-4.42	15.80	19.23	-4.63	-4.53	13.01	14.25	8.12	1.84
1956.00	16.74	19.93	-2.41	17.25	20.30	-2.61	-2.51	9.22	15.63	3.39	1.72
1956.08	17.25	20.30	-2.87	17.73	20.65	-2.96	-2.92	17.38	15.62	11.63	1.72
1956.17	16.20	19.53	-3.06	17.20	20.26	-3.78	-3.43	17.39	15.13	10.53	1.76
1956.25	15.36	18.91	-6.36	16.34	19.63	-7.23	-6.80	22.88	14.26	16.04	1.84
1956.33	14.28	18.11	-7.50	15.00	18.64	-7.78	-7.64	40.60	13.24	33.65	1.92
1956.42	12.15	16.54	-9.54	13.15	17.28	-10.04	-9.80	37.26	11.35	31.52	2.08
1956.50	11.22	15.85	-11.25	12.24	16.61	-11.89	-11.58	43.03	10.55	37.72	2.15
1956.58	11.04	15.72	-7.05	11.88	16.34	-7.44	-7.25	23.93	10.16	19.23	2.19
1956.67	11.35	15.95	-5.11	12.28	16.64	-5.78	-5.45	18.76	10.46	14.46	2.16
1956.75	12.21	16.59	-4.13	13.36	17.43	-4.71	-4.43	18.59	11.60	14.05	2.07
1956.83	13.05	17.21	-3.21	14.18	18.04	-4.27	-3.75	7.44	12.17	3.27	2.02
1956.92	15.17	18.77	-1.94	16.28	19.58	-2.61	-2.28	11.69	14.03	6.80	1.86
1957.00	16.80	19.97	-3.57	17.87	20.76	-3.76	-3.67	10.86	15.38	5.31	1.74
1957.08	17.66	20.60	-3.24	18.35	21.11	-3.40	-3.32	9.41	16.25	3.50	1.67
1957.17	17.68	20.62	-6.74	18.60	21.30	-6.82	-6.78	77.80	16.13	70.55	1.66
1957.25	15.71	19.17	-4.25	16.73	19.92	-4.83	-4.55	23.01	14.36	16.32	1.83

1957.33	14.32	18.14	-8.72	15.29	18.86	-8.54	-8.63	35.62	13.20	28.95	1.92
1957.42	13.19	17.31	-9.83	14.30	18.13	-9.79	-9.81	65.16	11.86	59.33	2.03
1957.50	12.54	16.83	-8.28	13.49	17.53	-8.57	-8.43	72.27	11.74	66.42	2.03
1957.58	11.79	16.28	-7.37	12.60	16.87	-8.04	-7.71	27.93	10.83	23.06	2.13
1957.67	11.93	16.38	-6.23	12.93	17.12	-6.53	-6.38	34.81	11.44	30.19	2.07
1957.75	12.49	16.79	-4.13	13.32	17.40	-4.94	-4.54	18.85	11.88	14.36	2.04
1957.83	14.90	18.57	-2.52	15.58	19.07	-2.95	-2.74	15.42	13.95	10.61	1.86
1957.92	15.02	18.66	-2.75	16.16	19.50	-3.36	-3.06	11.86	13.96	7.16	1.87
1958.00	16.92	20.06	-3.65	17.99	20.85	-4.37	-4.02	12.54	15.85	6.76	1.70
1958.08	17.12	20.21	-3.85	18.11	20.94	-4.24	-4.05	7.57	15.87	1.84	1.70
1958.17	16.92	20.06	-3.71	18.04	20.89	-4.19	-3.95	17.74	15.88	10.63	1.70
1958.25	15.62	19.10	-4.25	16.87	20.02	-5.07	-4.67	17.22	14.74	10.29	1.80
1958.33	14.56	18.32	-8.99	15.61	19.10	-9.39	-9.19	49.79	13.75	42.73	1.87
1958.42	12.61	16.88	-11.64	13.79	17.75	-12.26	-11.96	91.43	11.80	85.63	2.02
1958.50	11.68	16.19	-7.84	12.88	17.08	-8.73	-8.30	39.84	11.22	34.34	2.09
1958.58	10.82	15.56	-8.30	11.91	16.36	-8.99	-8.65	31.43	10.31	26.86	2.17
1958.67	11.04	15.72	-6.67	12.18	16.56	-7.71	-7.20	13.78	10.78	9.50	2.14
1958.75	12.47	16.78	-4.83	13.24	17.34	-5.26	-5.05	12.65	11.84	8.17	2.05
1958.83	14.69	18.42	-4.25	15.40	18.94	-4.70	-4.48	29.05	13.49	24.44	1.90
1958.92	16.15	19.49	-4.02	16.79	19.96	-4.23	-4.13	20.24	14.98	15.07	1.77
1959.00	16.68	19.88	-5.49	17.30	20.34	-5.59	-5.54	23.86	15.41	18.33	1.74
1959.08	18.31	21.08	-4.16	19.10	21.67	-4.51	-4.34	10.48	16.99	4.25	1.61
1959.17	17.63	20.58	-4.95	18.16	20.98	-5.29	-5.12	31.08	15.91	24.00	1.69
1959.25	15.68	19.15	-4.94	16.71	19.90	-5.29	-5.12	31.93	15.03	24.87	1.77
1959.33	14.30	18.13	-7.98	15.59	19.08	-8.22	-8.10	42.56	13.52	35.72	1.89
1959.42	13.46	17.51	-10.39	14.63	18.37	-10.97	-10.69	72.88	12.87	66.42	1.94
1959.50	11.76	16.26	-10.89	12.82	17.04	-11.37	-11.14	52.62	11.26	47.14	2.08
1959.58	11.79	16.27	-8.54	12.90	17.10	-9.37	-8.97	29.41	10.62	24.71	2.15
1959.67	11.94	16.38	-4.58	12.99	17.16	-5.28	-4.94	23.69	11.46	19.10	2.08
1959.75	12.35	16.69	-4.57	13.35	17.43	-5.24	-4.91	15.12	11.58	10.82	2.07
1959.83	14.21	18.06	-5.33	14.92	18.59	-5.86	-5.60	23.27	12.92	18.96	1.95
1959.92	15.74	19.19	-2.02	16.67	19.87	-2.57	-2.30	10.69	14.63	5.72	1.81
1960.00	16.78	19.96	-2.26	17.38	20.40	-2.83	-2.55	10.62	15.07	5.21	1.77
1960.08	17.59	20.56	-2.16	18.01	20.87	-2.46	-2.31	10.60	16.27	4.68	1.67
1960.17	16.80	19.97	-3.14	17.45	20.45	-3.33	-3.24	17.14	15.71	10.13	1.71
1960.25	14.89	18.56	-6.62	15.75	19.19	-6.87	-6.75	17.35	14.20	10.75	1.84
1960.33	14.14	18.01	-7.60	15.10	18.72	-8.28	-7.95	45.96	13.18	39.29	1.92
1960.42	13.29	17.38	-10.39	14.37	18.18	-10.32	-10.35	63.80	12.43	57.58	1.98
1960.50	12.44	16.76	-8.15	13.38	17.45	-8.48	-8.32	35.82	11.63	30.04	2.06



1960.58	11.51	16.07	-8.08	12.40	16.73	-8.65	-8.37	41.33	11.05	36.31	2.11
1960.67	11.97	16.41	-6.05	12.86	17.06	-6.59	-6.33	26.38	11.29	21.82	2.09
1960.75	13.06	17.21	-5.10	14.04	17.93	-5.68	-5.40	36.56	12.66	31.66	1.97
1960.83	13.80	17.76	-2.23	14.81	18.50	-2.80	-2.52	11.28	12.90	6.94	1.96
1960.92	15.32	18.88	-2.62	16.35	19.64	-3.29	-2.96	10.51	14.37	5.61	1.83
1961.00	16.47	19.72	-2.43	17.37	20.39	-2.99	-2.71	5.95	15.25	0.44	1.76
1961.08	18.08	20.91	-2.05	18.64	21.33	-2.46	-2.26	20.13	16.44	14.11	1.65
1961.17	17.19	20.26	-3.28	17.94	20.81	-3.55	-3.42	16.41	15.94	9.23	1.69
1961.25	14.92	18.58	-6.22	16.17	19.51	-7.08	-6.66	19.90	13.93	13.44	1.87
1961.33	14.22	18.07	-5.62	15.04	18.67	-6.24	-5.94	23.78	12.99	17.20	1.94
1961.42	13.34	17.42	-7.85	14.32	18.14	-8.28	-8.07	39.85	12.43	33.60	1.99
1961.50	11.89	16.35	-9.51	12.99	17.16	-9.92	-9.72	63.27	11.27	57.70	2.08
1961.58	11.32	15.93	-8.37	12.16	16.55	-8.85	-8.61	39.41	10.85	34.48	2.12
1961.67	11.63	16.15	-5.31	12.56	16.84	-5.90	-5.61	18.79	11.11	14.31	2.11
1961.75	12.36	16.70	-4.58	13.26	17.36	-5.15	-4.87	18.16	11.78	13.68	2.05
1961.83	13.71	17.69	-3.52	14.57	18.33	-4.02	-3.77	9.28	12.79	4.97	1.97
1961.92	16.24	19.56	-4.35	16.75	19.93	-4.77	-4.56	13.34	14.93	8.17	1.78
1962.00	16.97	20.09	-3.25	17.69	20.63	-3.47	-3.36	11.87	15.79	6.14	1.71
1962.08	17.13	20.21	-1.24	17.85	20.74	-1.50	-1.37	13.39	16.33	7.47	1.66
1962.17	17.41	20.42	-4.33	18.63	21.32	-4.82	-4.58	36.14	16.66	28.59	1.62
1962.25	16.63	19.85	-6.11	17.62	20.57	-6.47	-6.29	52.54	15.62	45.08	1.71
1962.33	14.45	18.24	-9.87	15.57	19.06	-10.19	-10.03	55.40	13.21	48.76	1.92
1962.42	13.05	17.21	-9.12	14.35	18.17	-9.78	-9.46	40.62	12.38	34.48	1.99
1962.50	11.55	16.10	-10.50	12.81	17.03	-10.88	-10.70	70.29	11.31	64.76	2.07
1962.58	11.13	15.79	-6.97	12.28	16.64	-7.72	-7.35	39.51	10.92	34.62	2.12
1962.67	11.25	15.88	-3.81	12.57	16.85	-4.86	-4.35	14.40	10.80	10.15	2.14
1962.75	12.70	16.95	-3.81	13.64	17.64	-3.97	-3.89	23.45	11.79	19.04	2.05
1962.83	13.10	17.24	-3.21	14.18	18.04	-3.98	-3.60	7.21	12.07	3.27	2.03
1962.92	15.37	18.92	-2.51	16.46	19.72	-3.05	-2.79	12.15	14.69	7.14	1.80
1963.00	16.90	20.04	-2.40	17.48	20.47	-2.48	-2.44	9.20	15.69	3.40	1.72
1963.08	16.55	19.78	-2.41	17.46	20.45	-2.74	-2.58	17.81	15.62	12.12	1.72
1963.17	16.54	19.78	-3.40	17.55	20.52	-3.82	-3.61	26.45	15.59	19.40	1.72
1963.25	15.44	18.97	-6.42	16.17	19.51	-6.60	-6.51	27.43	14.62	20.45	1.80
1963.33	13.50	17.53	-10.58	14.54	18.30	-10.54	-10.56	54.31	12.66	47.85	1.96
1963.42	12.61	16.88	-10.39	13.70	17.68	-10.96	-10.68	57.84	12.00	51.77	2.02
1963.50	11.56	16.10	-10.88	12.85	17.05	-11.21	-11.05	31.81	10.80	26.44	2.13
1963.58	11.56	16.11	-7.44	12.62	16.89	-8.03	-7.74	28.46	10.98	23.36	2.12
1963.67	10.95	15.65	-5.77	12.41	16.73	-6.56	-6.18	25.27	10.53	21.01	2.16
1963.75	12.54	16.83	-2.74	13.45	17.50	-3.69	-3.22	13.32	11.72	8.80	2.06

1963.83	13.35	17.43	-3.00	14.57	18.33	-3.91	-3.47	11.05	12.95	6.60	1.95
1963.92	14.57	18.32	-3.98	15.80	19.23	-4.52	-4.26	9.79	13.71	5.11	1.89
1964.00	16.59	19.82	-2.66	17.71	20.64	-3.19	-2.93	18.76	15.82	12.88	1.70
1964.08	16.74	19.93	-3.55	17.58	20.55	-3.72	-3.64	10.40	15.45	4.77	1.74
1964.17	16.89	20.03	-4.64	17.82	20.72	-4.70	-4.67	26.68	15.63	19.58	1.72
1964.25	15.63	19.11	-6.65	16.68	19.88	-6.60	-6.62	30.00	14.25	23.21	1.83
1964.33	14.45	18.24	-10.36	15.57	19.06	-10.60	-10.48	64.65	13.66	57.47	1.87
1964.42	12.73	16.97	-8.97	13.64	17.64	-8.93	-8.95	47.78	12.02	41.66	2.02
1964.50	10.85	15.59	-10.56	12.00	16.43	-11.01	-10.79	60.25	10.17	55.24	2.17
1964.58	11.23	15.86	-8.74	12.42	16.74	-9.16	-8.96	44.07	10.77	39.06	2.13
1964.67	10.88	15.61	-7.63	11.85	16.32	-8.11	-7.88	39.82	10.76	35.41	2.13
1964.75	11.30	15.91	-3.13	12.40	16.73	-3.88	-3.51	10.75	11.15	6.48	2.11
1964.83	12.87	17.07	-3.72	13.79	17.75	-4.09	-3.91	7.08	11.91	3.06	2.04
1964.92	15.16	18.76	-4.25	16.09	19.45	-4.61	-4.43	8.41	14.12	3.52	1.85
1965.00	17.05	20.15	-3.05	17.79	20.70	-3.00	-3.02	27.16	15.90	21.25	1.69
1965.08	17.21	20.27	-1.45	18.13	20.95	-2.21	-1.84	16.59	16.04	10.67	1.68
1965.17	16.34	19.63	-5.50	17.30	20.34	-5.36	-5.43	36.39	15.30	29.49	1.74
1965.25	15.04	18.68	-9.37	16.16	19.50	-9.62	-9.50	55.94	14.05	49.28	1.84
1965.33	13.75	17.72	-9.45	15.02	18.66	-10.21	-9.84	54.31	12.89	47.66	1.94
1965.42	12.10	16.50	-8.77	13.49	17.53	-9.39	-9.09	54.95	11.90	48.91	2.03
1965.50	11.30	15.91	-9.71	12.49	16.79	-10.64	-10.19	59.36	10.84	53.92	2.12
1965.58	11.36	15.96	-9.36	12.20	16.58	-10.00	-9.69	41.19	10.87	36.12	2.12
1965.67	11.58	16.12	-6.32	12.59	16.86	-6.87	-6.60	41.39	11.23	36.73	2.09
1965.75	11.46	16.03	-2.58	12.57	16.85	-3.60	-3.10	9.47	10.90	5.33	2.13
1965.83	12.61	16.88	-2.18	13.60	17.61	-3.05	-2.62	13.31	12.13	9.20	2.02
1965.92	14.50	18.28	-3.44	15.33	18.89	-3.86	-3.65	12.02	13.81	7.27	1.88
1966.00	15.77	19.21	-3.30	16.70	19.90	-3.88	-3.60	7.33	14.50	2.11	1.82
1966.08	16.49	19.74	-1.34	17.49	20.48	-1.79	-1.57	13.07	15.32	7.53	1.75
1966.17	16.13	19.48	-4.05	16.81	19.98	-4.44	-4.25	28.20	14.98	21.53	1.77
1966.25	15.63	19.11	-4.83	16.53	19.77	-5.15	-4.99	34.57	14.76	27.51	1.79
1966.33	13.94	17.86	-7.03	14.94	18.60	-7.40	-7.22	57.93	13.60	50.85	1.88
1966.42	13.02	17.19	-8.86	14.31	18.14	-9.23	-9.05	51.99	12.11	45.87	2.01
1966.50	11.09	15.76	-10.31	12.42	16.74	-10.13	-10.22	51.67	10.52	46.50	2.15
1966.58	10.76	15.51	-6.33	11.90	16.36	-7.13	-6.74	19.20	10.49	14.41	2.16
1966.67	11.59	16.13	-3.84	12.67	16.93	-4.53	-4.19	13.60	11.16	9.02	2.11
1966.75	12.13	16.53	-1.61	13.18	17.30	-2.85	-2.24	9.25	11.63	4.79	2.07
1966.83	14.52	18.29	-3.91	15.35	18.90	-4.32	-4.12	16.85	13.65	12.09	1.89
1966.92	15.66	19.13	-1.82	16.68	19.88	-2.42	-2.13	12.68	14.74	7.54	1.80
1967.00	16.64	19.85	-2.36	17.53	20.51	-2.69	-2.53	10.26	15.45	4.70	1.74

1967.08	17.68	20.62	-2.71	18.67	21.35	-2.85	-2.78	19.25	16.70	13.15	1.63
1967.17	16.90	20.05	-2.77	18.26	21.05	-3.43	-3.11	44.76	16.32	37.42	1.65
1967.25	15.98	19.37	-8.47	17.27	20.32	-9.22	-8.85	90.10	15.45	82.75	1.71
1967.33	14.00	17.91	-9.33	15.09	18.71	-10.87	-10.12	74.24	13.80	67.19	1.86
1967.42	12.12	16.52	-9.63	13.35	17.43	-10.34	-9.99	76.16	11.71	70.47	2.04
1967.50	11.46	16.03	-7.77	12.67	16.92	-8.33	-8.06	41.88	11.26	36.38	2.09
1967.58	11.59	16.12	-8.81	12.51	16.81	-9.47	-9.15	45.31	11.24	40.22	2.09
1967.67	11.57	16.11	-7.11	12.72	16.96	-7.81	-7.47	33.32	11.29	28.80	2.09
1967.75	12.21	16.58	-5.19	13.22	17.33	-6.19	-5.70	22.25	11.88	17.79	2.04
1967.83	13.07	17.22	-4.04	14.29	18.12	-4.84	-4.45	17.51	12.56	13.35	1.98
1967.92	15.17	18.77	-2.58	16.30	19.60	-3.26	-2.93	11.75	14.10	7.00	1.85
1968.00	15.33	18.88	-2.19	16.30	19.60	-2.73	-2.47	14.46	14.36	9.22	1.83
1968.08	16.17	19.51	-3.34	17.11	20.20	-4.00	-3.68	12.56	15.45	6.87	1.74
1968.17	15.16	18.76	-3.12	16.29	19.60	-3.67	-3.40	13.58	14.28	7.20	1.84
1968.25	15.04	18.68	-6.79	16.02	19.39	-6.96	-6.88	45.58	14.11	38.81	1.84
1968.33	13.63	17.63	-9.54	14.52	18.29	-9.69	-9.62	46.43	12.51	39.96	1.98
1968.42	12.08	16.49	-8.63	12.97	17.14	-9.27	-8.96	36.40	11.39	30.61	2.08
1968.50	11.57	16.12	-8.89	12.36	16.70	-9.36	-9.13	38.82	11.11	33.12	2.10
1968.58	11.14	15.79	-7.81	11.95	16.39	-8.18	-8.00	38.32	10.66	33.30	2.14
1968.67	11.58	16.12	-4.46	12.27	16.63	-5.08	-4.77	19.27	11.00	14.66	2.12
1968.75	12.46	16.77	-2.95	13.10	17.24	-3.53	-3.24	12.53	11.25	8.15	2.10
1968.83	14.44	18.23	-4.37	14.93	18.59	-4.81	-4.59	8.39	13.24	3.72	1.93
1968.92	15.55	19.05	-3.76	16.21	19.53	-4.14	-3.95	11.64	14.48	6.53	1.82
1969.00	17.56	20.53	-3.12	17.86	20.75	-3.26	-3.19	17.27	15.64	11.59	1.72
1969.08	18.47	21.20	-3.31	18.84	21.47	-3.11	-3.21	23.95	16.73	17.82	1.62
1969.17	17.12	20.21	-4.22	17.92	20.80	-4.33	-4.28	27.74	15.37	20.94	1.74
1969.25	15.31	18.87	-5.81	16.27	19.58	-6.17	-5.99	19.16	14.14	12.60	1.85
1969.33	15.08	18.70	-5.78	15.78	19.22	-6.26	-6.02	38.27	13.27	31.54	1.92
1969.42	12.82	17.04	-8.34	13.79	17.75	-9.07	-8.71	50.51	12.06	44.55	2.02
1969.50	11.65	16.17	-7.80	12.59	16.87	-8.57	-8.19	32.03	11.11	26.60	2.10
1969.58	11.02	15.71	-7.51	12.08	16.49	-8.08	-7.80	26.28	10.59	21.55	2.15
1969.67	11.37	15.97	-4.96	12.54	16.83	-5.86	-5.42	19.54	11.14	15.08	2.10
1969.75	13.23	17.34	-2.83	14.06	17.95	-3.38	-3.11	15.69	12.48	10.89	1.99
1969.83	14.99	18.64	-1.81	15.72	19.18	-2.49	-2.15	11.88	13.66	7.20	1.89
1969.92	16.15	19.49	-4.16	16.94	20.07	-4.62	-4.39	13.23	14.70	8.19	1.80
1970.00	17.02	20.13	-3.83	17.77	20.69	-3.95	-3.89	13.73	15.72	8.01	1.71
1970.08	17.06	20.16	-2.62	17.93	20.80	-3.05	-2.84	13.47	15.83	7.76	1.70
1970.17	17.71	20.64	-7.12	18.85	21.48	-6.84	-6.98	40.10	16.09	32.86	1.67
1970.25	16.38	19.66	-8.03	17.68	20.62	-8.47	-8.26	49.40	15.03	42.27	1.76

1970.33	15.87	19.28	-11.49	16.75	19.94	-11.93	-11.71	135.63	14.84	127.80	1.75
1970.42	13.59	17.60	-9.41	14.31	18.14	-9.78	-9.60	80.32	12.87	73.79	1.94
1970.50	12.12	16.52	-8.09	13.54	17.56	-8.75	-8.43	53.54	10.95	48.19	2.11
1970.58	10.45	15.29	-8.86	11.60	16.13	-9.64	-9.26	25.62	9.76	21.36	2.22
1970.67	10.93	15.64	-8.83	12.06	16.47	-9.54	-9.19	26.63	10.40	22.55	2.17
1970.75	12.50	16.80	-6.32	13.50	17.53	-6.94	-6.64	14.76	11.65	10.38	2.06
1970.83	13.88	17.81	-1.68	14.67	18.40	-2.60	-2.15	11.32	12.85	7.00	1.96
1970.92	15.79	19.23	-3.40	16.63	19.84	-3.58	-3.49	12.25	14.05	7.50	1.86
1971.00	16.44	19.70	-3.13	17.22	20.28	-3.35	-3.24	8.69	14.92	3.26	1.78
1971.08	16.59	19.82	-2.02	17.67	20.61	-2.33	-2.18	12.79	15.27	7.25	1.75
1971.17	15.67	19.14	-4.52	16.84	20.00	-5.21	-4.87	15.05	14.79	8.46	1.79
1971.25	15.72	19.18	-4.58	16.51	19.76	-5.12	-4.85	20.99	14.45	14.10	1.82
1971.33	14.57	18.33	-7.75	15.54	19.04	-8.08	-7.92	61.32	13.41	54.34	1.90
1971.42	14.15	18.02	-9.13	14.83	18.51	-8.61	-8.87	63.27	13.22	56.36	1.91
1971.50	12.05	16.46	-9.83	13.13	17.26	-10.38	-10.11	50.20	11.61	44.28	2.05
1971.58	11.32	15.93	-8.43	12.39	16.71	-9.01	-8.73	37.30	10.88	32.24	2.12
1971.67	12.01	16.44	-5.73	12.98	17.15	-6.59	-6.17	18.60	11.25	13.94	2.10
1971.75	12.14	16.53	-4.90	13.20	17.32	-5.78	-5.35	14.91	11.36	10.55	2.09
1971.83	13.39	17.46	-4.27	14.01	17.91	-4.59	-4.43	9.37	12.14	5.27	2.02
1971.92	15.03	18.67	-4.31	15.72	19.17	-4.24	-4.27	8.10	13.51	3.50	1.91
1972.00	17.46	20.45	-2.93	17.94	20.81	-3.20	-3.07	18.74	15.96	12.98	1.69
1972.08	17.94	20.81	-4.52	18.68	21.36	-4.65	-4.59	44.14	16.64	38.11	1.62
1972.17	17.00	20.12	-5.07	17.87	20.76	-4.53	-4.80	22.84	16.03	15.73	1.68
1972.25	15.50	19.01	-6.33	16.56	19.79	-6.90	-6.62	36.08	14.52	29.38	1.81
1972.33	14.52	18.29	-9.03	15.66	19.13	-9.19	-9.11	58.49	13.75	51.54	1.87
1972.42	13.03	17.19	-9.11	14.07	17.96	-9.66	-9.39	62.64	12.38	56.57	1.98
1972.50	11.47	16.04	-9.51	12.49	16.79	-10.17	-9.85	45.01	10.70	39.95	2.13
1972.58	12.12	16.52	-6.24	13.07	17.22	-6.93	-6.59	27.74	11.37	22.63	2.08
1972.67	12.49	16.79	-5.64	13.54	17.56	-6.53	-6.09	20.59	11.78	15.87	2.05
1972.75	13.49	17.53	-3.71	14.31	18.14	-4.35	-4.04	17.03	12.62	12.24	1.98
1972.83	14.23	18.07	-3.68	15.08	18.70	-4.22	-3.95	11.55	13.24	7.14	1.93
1972.92	16.14	19.48	-4.03	17.11	20.20	-4.17	-4.10	16.95	14.79	11.94	1.79
1973.00											
1973.08	18.16	20.97	-0.98	18.81	21.45	-1.37	-1.18	11.38	16.38	5.10	1.66
1973.17	17.58	20.54	-2.59	18.33	21.10	-2.93	-2.76	20.60	16.07	12.99	1.68
1973.25	16.03	19.40	-4.81	16.67	19.88	-5.01	-4.91	35.67	14.80	28.26	1.79
1973.33	14.21	18.06	-4.22	15.42	18.96	-4.85	-4.54	71.85	13.46	64.49	1.89
1973.42	13.02	17.18	-7.68	13.96	17.88	-7.98	-7.83	47.74	12.01	41.29	2.02
1973.50	11.55	16.10	-8.62	12.59	16.86	-8.95	-8.79	54.31	11.02	48.42	2.10

1973.58	11.38	15.97	-6.55	12.30	16.65	-7.05	-6.81	37.02	10.93	31.60	2.12
1973.67	11.10	15.76	-4.95	12.05	16.47	-5.73	-5.35	26.47	10.72	21.81	2.14
1973.75	12.56	16.84	-3.04	13.44	17.49	-3.45	-3.25	27.25	11.71	22.45	2.05
1973.83	12.83	17.04	-2.52	13.86	17.80	-2.89	-2.71	12.66	12.11	8.34	2.02
1973.92	14.64	18.38	-0.66	15.42	18.96	-1.10	-0.88	7.78	13.54	2.94	1.90
1974.00	16.45	19.72	-0.57	17.15	20.23	-0.99	-0.78	13.47	15.32	7.87	1.75
1974.08	16.50	19.75	-1.37	17.13	20.21	-1.65	-1.51	11.38	15.33	5.84	1.75
1974.17	16.17	19.51	-3.23	16.94	20.07	-4.08	-3.66	26.45	15.16	19.67	1.76
1974.25	15.04	18.67	-5.14	15.96	19.35	-5.10	-5.12	27.30	14.62	20.33	1.80
1974.33	14.57	18.33	-6.02	15.28	18.85	-6.70	-6.36	46.40	13.82	39.17	1.87
1974.42	13.08	17.23	-10.75	13.84	17.79	-10.68	-10.71	97.70	12.57	91.26	1.96
1974.50	11.54	16.09	-8.61	12.82	17.04	-9.40	-9.02	40.35	10.89	34.93	2.12
1974.58	11.06	15.74	-8.28	12.05	16.47	-8.94	-8.62	36.50	10.48	31.71	2.16
1974.67	11.11	15.77	-5.60	12.06	16.48	-6.50	-6.06	29.70	10.90	25.26	2.12
1974.75	11.47	16.04	-2.50	12.45	16.76	-3.50	-3.01	15.77	10.81	11.71	2.13
1974.83	14.20	18.05	-2.38	14.80	18.49	-3.19	-2.79	9.44	13.00	4.97	1.95
1974.92	15.39	18.93	-0.80	16.17	19.51	-1.23	-1.02	14.72	14.42	9.72	1.82
1975.00	17.10	20.19	-1.88	17.72	20.65	-2.20	-2.04	16.86	15.79	11.18	1.71
1975.08	17.65	20.60	-1.70	18.39	21.14	-2.03	-1.87	19.52	16.32	13.65	1.66
1975.17	18.33	21.10	-4.85	18.92	21.53	-4.47	-4.66	29.76	16.78	22.19	1.62
1975.25	16.96	20.09	-6.28	17.40	20.41	-5.51	-5.89	52.44	15.60	45.06	1.71
1975.33	15.65	19.12	-8.11	16.46	19.72	-9.09	-8.61	78.71	14.57	71.20	1.79
1975.42	12.72	16.96	-9.05	13.78	17.74	-9.49	-9.27	51.06	12.25	45.08	2.00
1975.50	11.45	16.03	-7.35	12.63	16.90	-8.14	-7.76	38.88	10.98	33.64	2.11
1975.58	11.11	15.78	-7.51	12.37	16.70	-8.04	-7.78	37.46	10.60	32.82	2.14
1975.67	11.96	16.40	-4.67	12.84	17.05	-5.30	-4.99	31.85	11.30	27.40	2.09
1975.75	11.98	16.42	-1.54	13.05	17.20	-2.54	-2.05	16.71	11.69	12.40	2.06
1975.83	13.94	17.86	-2.19	14.82	18.51	-2.51	-2.35	8.85	13.36	4.39	1.92
1975.92	15.48	19.00	-1.49	16.15	19.49	-2.25	-1.87	10.69	14.41	5.86	1.83
1976.00	16.62	19.84	-2.29	17.15	20.23	-2.20	-2.24	11.23	15.41	5.69	1.74
1976.08	17.54	20.52	-2.37	18.14	20.96	-2.47	-2.42	12.53	16.29	6.62	1.66
1976.17	17.06	20.16	-3.92	17.93	20.80	-4.39	-4.16	10.80	15.85	3.74	1.70
1976.25	15.63	19.11	-4.74	16.68	19.88	-5.50	-5.13	21.62	14.50	14.87	1.82
1976.33	15.12	18.73	-5.79	16.10	19.46	-6.19	-5.99	37.47	13.69	30.49	1.88
1976.42	14.01	17.91	-8.65	14.89	18.56	-9.32	-8.99	78.52	13.18	71.83	1.91
1976.50	12.32	16.67	-10.96	13.51	17.54	-11.23	-11.10	88.03	12.07	81.99	2.00
1976.58	11.30	15.91	-9.18	12.48	16.78	-9.95	-9.58	40.27	10.76	35.47	2.13
1976.67	11.58	16.12	-4.95	12.78	17.00	-5.84	-5.41	37.15	11.04	32.77	2.11
1976.75	12.72	16.96	-2.52	13.89	17.82	-3.28	-2.91	19.40	12.06	14.84	2.03

1976.83	13.53	17.56	-1.88	14.66	18.39	-2.61	-2.25	12.15	12.54	8.00	1.99
1976.92	16.04	19.41	-3.31	16.77	19.95	-3.64	-3.48	7.27	14.43	2.38	1.83
1977.00	17.36	20.39	-1.26	18.13	20.95	-1.75	-1.51	16.11	16.10	10.40	1.68
1977.08	18.87	21.50	-1.76	19.28	21.80	-2.19	-1.98	17.41	16.73	11.46	1.62
1977.17	18.09	20.92	-3.37	18.58	21.28	-3.12	-3.24	26.46	16.07	19.48	1.68
1977.25	17.39	20.41	-5.73	17.99	20.85	-5.83	-5.78	80.37	15.83	73.00	1.68
1977.33	15.45	18.98	-8.15	16.34	19.63	-8.20	-8.18	81.03	13.91	74.16	1.85
1977.42	13.88	17.82	-8.82	14.77	18.47	-8.97	-8.90	92.99	13.04	86.67	1.92
1977.50	11.87	16.34	-8.21	13.08	17.23	-9.03	-8.63	41.04	11.03	35.96	2.11
1977.58	11.64	16.16	-7.76	12.67	16.93	-8.35	-8.06	21.84	10.66	17.34	2.15
1977.67	12.90	17.10	-3.54	14.03	17.92	-4.49	-4.03	35.62	12.60	30.61	1.97
1977.75	13.71	17.69	-1.57	14.52	18.29	-2.17	-1.87	13.39	12.83	8.65	1.96
1977.83	14.66	18.39	-2.20	15.63	19.11	-2.91	-2.56	22.24	14.22	17.51	1.84
1977.92	16.44	19.70	-2.22	17.26	20.31	-2.70	-2.46	9.84	15.83	4.46	1.71
1978.00	17.48	20.47	-1.36	18.26	21.05	-2.06	-1.71	13.82	16.71	7.83	1.63
1978.08	17.82	20.72	-1.85	18.46	21.20	-2.12	-1.99	10.59	16.75	4.65	1.63
1978.17	16.94	20.07	-2.74	17.95	20.82	-3.21	-2.98	20.26	16.32	13.15	1.66
1978.25	15.88	19.29	-4.50	16.96	20.09	-5.18	-4.85	21.97	14.98	15.18	1.77
1978.33	14.60	18.35	-6.22	15.69	19.15	-6.81	-6.52	46.17	13.54	39.59	1.89
1978.42	13.63	17.63	-8.37	14.61	18.35	-8.81	-8.59	67.70	13.12	61.36	1.92
1978.50	13.32	17.40	-9.93	14.21	18.06	-10.21	-10.07	99.95	12.59	93.87	1.95
1978.58	11.73	16.23	-8.97	12.71	16.95	-9.48	-9.23	56.31	11.43	51.39	2.07
1978.67	12.34	16.68	-5.43	13.45	17.50	-6.01	-5.73	32.93	11.88	28.35	2.04
1978.75	13.19	17.31	-3.48	14.16	18.03	-4.21	-3.85	26.96	12.55	22.38	1.98
1978.83	15.14	18.75	-1.97	15.84	19.26	-2.35	-2.16	16.43	14.12	11.76	1.85
1978.92	16.63	19.84	-4.83	17.47	20.46	-4.83	-4.83	27.46	15.91	22.07	1.69
1979.00	17.31	20.35	-1.58	18.05	20.90	-1.31	-1.44	11.10	16.02	5.39	1.69
1979.08	17.79	20.70	-2.84	18.24	21.03	-2.85	-2.85	20.24	16.75	14.23	1.62
1979.17	16.48	19.74	-2.70	17.36	20.39	-3.16	-2.93	17.08	15.48	10.39	1.73
1979.25	16.27	19.58	-4.80	17.14	20.22	-5.76	-5.29	49.95	15.08	43.00	1.76
1979.33	15.16	18.76	-7.29	16.05	19.41	-7.65	-7.47	88.19	14.05	81.16	1.83
1979.42	13.35	17.42	-7.32	14.40	18.20	-7.63	-7.48	53.86	12.41	47.89	1.98
1979.50	12.30	16.65	-9.41	13.34	17.42	-9.75	-9.58	84.49	11.76	78.86	2.03
1979.58	11.42	16.00	-6.32	12.48	16.79	-6.97	-6.65	28.32	10.93	23.59	2.12
1979.67	12.06	16.48	-4.47	12.83	17.04	-5.00	-4.74	17.06	11.40	12.64	2.08
1979.75	13.82	17.78	-1.83	14.76	18.47	-2.58	-2.21	15.30	13.07	10.37	1.94
1979.83	15.04	18.67	-0.48	16.21	19.54	-1.33	-0.91	17.95	14.37	13.09	1.83
1979.92	16.87	20.02	-2.75	17.79	20.70	-2.96	-2.86	11.65	15.66	6.31	1.72
1980.00	17.54	20.52	-2.59	18.34	21.11	-2.98	-2.79	22.14	16.17	16.26	1.67

1980.08	17.27	20.32	-2.01	17.84	20.74	-2.48	-2.25	9.93	16.08	4.17	1.68
1980.17	16.82	19.98	-2.25	17.69	20.63	-2.88	-2.57	19.95	15.61	13.08	1.72
1980.25	16.20	19.53	-5.05	17.26	20.31	-4.96	-5.00	57.26	15.44	49.96	1.72
1980.33	14.18	18.04	-5.88	15.33	18.88	-6.26	-6.07	61.98	13.29	55.33	1.91
1980.42	12.74	16.98	-8.02	13.92	17.84	-8.61	-8.32	49.16	12.06	43.29	2.02
1980.50	13.10	17.24	-8.59	13.90	17.83	-9.72	-9.16	84.58	12.77	78.12	1.94
1980.58	11.94	16.39	-5.68	12.97	17.14	-6.43	-6.06	22.75	11.35	17.65	2.09
1980.67	11.91	16.36	-4.48	12.87	17.07	-5.26	-4.88	31.78	11.63	27.13	2.06
1980.75	12.84	17.05	-0.71	13.60	17.61	-1.55	-1.14	15.50	11.80	11.12	2.05
1980.83	14.29	18.12	-1.33	15.12	18.73	-2.13	-1.74	11.70	13.00	7.38	1.95
1980.92	15.74	19.19	-1.87	16.15	19.49	-2.30	-2.09	5.68	14.18	0.93	1.85
1981.00	16.83	19.99	-1.01	17.31	20.34	-5.46	-3.25	15.61	15.50	9.97	1.73
1981.08	16.87	20.03	-2.47	17.36	20.38	-2.70	-2.59	16.66	16.06	10.82	1.68
1981.17	16.36	19.65	-3.49	17.00	20.12	-3.46	-3.47	23.36	15.32	16.56	1.74
1981.25	15.76	19.20	-4.58	16.48	19.73	-4.87	-4.73	42.73	14.98	35.62	1.77
1981.33	14.30	18.13	-7.08	15.32	18.88	-7.64	-7.37	50.03	13.55	43.07	1.89
1981.42	13.24	17.34	-7.47	13.93	17.85	-8.04	-7.76	55.32	12.56	48.98	1.97
1981.50	12.17	16.56	-7.61	13.36	17.43	-7.92	-7.77	46.98	11.45	41.28	2.07
1981.58	12.19	16.57	-7.73	13.00	17.17	-8.12	-7.93	32.04	10.94	27.06	2.12
1981.67	12.18	16.56	-4.55	13.12	17.26	-5.24	-4.90	23.83	11.52	19.12	2.07
1981.75	13.14	17.27	-3.63	13.98	17.89	-4.25	-3.95	19.69	12.26	14.97	2.01
1981.83	13.73	17.71	-0.65	14.60	18.35	-1.39	-1.03	11.08	12.52	6.89	1.99
1981.92	14.60	18.34		15.38	18.92	-0.44	-0.22	8.59	13.16	4.22	1.93
1982.00	15.92	19.32	-1.96	16.75	19.93	-2.29	-2.13	15.14	14.81	9.83	1.79
1982.08	16.03	19.40	-1.69	16.67	19.87	-2.28	-1.99	10.72	14.77	5.50	1.80
1982.17	16.95	20.08	-3.30	17.40	20.41	-3.20	-3.25	40.87	15.97	33.68	1.68
1982.25	15.85	19.27	-5.46	16.63	19.85	-6.12	-5.79	37.42	14.19	30.79	1.84
1982.33	14.46	18.24	-6.64	15.12	18.73	-6.80	-6.72	39.66	12.96	33.10	1.94
1982.42	12.87	17.07	-6.46	13.67	17.66	-6.96	-6.71	40.39	12.34	34.20	1.99
1982.50	12.36	16.70	-7.73	13.20	17.31	-8.19	-7.96	48.86	11.47	43.15	2.07
1982.58	11.62	16.15	-7.80	12.44	16.75	-8.00	-7.90	38.86	11.16	33.74	2.10
1982.67	12.39	16.72	-3.74	13.32	17.41	-4.19	-3.97	24.35	11.63	19.58	2.06
1982.75	13.51	17.54	-3.09	14.28	18.11	-3.43	-3.26	22.75	12.79	17.76	1.96
1982.83	14.51	18.28	-1.10	15.32	18.88	-1.62	-1.36	9.50	13.58	4.83	1.90
1982.92	15.14	18.75	-1.15	16.17	19.51	-1.91	-1.54	9.38	14.28	4.50	1.84
1983.00	17.34	20.37		18.24	21.03	-0.41	-0.21	8.92	16.27	3.03	1.67
1983.08	17.81	20.71	-0.04	18.58	21.28	-0.23	-0.14	12.41	16.64	6.41	1.63
1983.17	17.13	20.21	-2.71	18.11	20.94	-2.79	-2.75	25.71	16.16	18.55	1.67
1983.25	16.04	19.41	-4.86	17.00	20.11	-5.31	-5.09	27.36	15.50	20.07	1.73

1983.33	15.33	18.88	-6.03	16.39	19.67	-6.65	-6.35	64.61	14.46	57.21	1.80
1983.42	13.79	17.75	-8.86	15.02	18.66	-8.50	-8.68	54.08	12.91	47.70	1.94
1983.50	12.49	16.79	-8.16	13.43	17.49	-8.49	-8.33	66.25	11.73	60.56	2.04
1983.58	11.57	16.11	-8.38	12.63	16.89	-9.00	-8.70	46.18	10.86	41.42	2.12
1983.67	11.51	16.07	-3.90	12.73	16.97	-4.86	-4.39	32.47	11.16	28.12	2.10
1983.75	12.25	16.62	-1.72	13.55	17.57	-2.54	-2.14	10.45	11.89	6.07	2.04
1983.83	13.44	17.49	-3.86	14.33	18.15	-4.36	-4.11	9.53	12.60	5.43	1.98
1983.92	15.26	18.83	-1.55	16.23	19.55	-1.68	-1.62	6.47	14.52	1.62	1.82
1984.00	17.01	20.13	-2.42	17.91	20.79	-2.76	-2.59	11.95	15.77	6.34	1.71
1984.08	17.70	20.63	-0.92	18.53	21.24	-1.42	-1.17	9.25	16.29	3.46	1.67
1984.17	17.51	20.49	-2.99	18.10	20.93	-3.27	-3.13	23.57	16.41	16.31	1.65
1984.25	16.20	19.53	-3.87	17.26	20.31	-3.79	-3.83	35.33	15.14	28.33	1.76
1984.33	14.67	18.40	-7.16	15.78	19.21	-7.71	-7.44	62.97	13.82	56.08	1.86
1984.42	12.92	17.11	-8.10	14.29	18.12	-8.58	-8.35	62.21	12.55	56.13	1.97
1984.50	12.53	16.82	-8.63	13.73	17.70	-9.08	-8.86	67.63	12.24	61.66	1.99
1984.58	11.09	15.76	-7.52	12.50	16.80	-8.61	-8.08	42.12	10.36	37.72	2.16
1984.67	12.80	17.02	-5.55	13.93	17.86	-6.53	-6.05	44.75	12.23	39.87	2.00
1984.75	13.20	17.31	-3.26	14.39	18.19	-3.99	-3.63	22.02	12.36	17.45	2.00
1984.83	14.53	18.30	-3.90	15.38	18.92	-3.89	-3.89	34.29	13.86	29.66	1.87
1984.92	16.08	19.44	-1.44	16.98	20.11	-2.22	-1.84	8.87	15.56	3.57	1.73
1985.00	17.40	20.41	-0.83	18.19	20.99	-1.45	-1.14	10.35	16.55	4.42	1.64
1985.08	17.65	20.60	-3.01	18.62	21.31	-3.47	-3.24	17.20	16.41	11.41	1.65
1985.17	17.61	20.57	-3.13	18.72	21.39	-3.58	-3.36	37.10	17.01	29.54	1.59
1985.25	15.80	19.23	-4.29	16.77	19.95	-5.03	-4.67	19.33	15.24	12.35	1.75
1985.33	16.12	19.47	-6.08	16.94	20.07	-6.17	-6.13	53.41	14.42	46.20	1.81
1985.42	14.04	17.93	-8.30	15.11	18.73	-8.63	-8.47	80.76	13.22	74.33	1.91
1985.50	12.76	16.99	-8.83	13.86	17.80	-9.35	-9.10	59.86	12.22	54.01	2.00
1985.58	11.76	16.25	-7.06	12.78	17.01	-7.58	-7.33	36.19	11.34	31.30	2.08
1985.67	12.38	16.71	-4.12	13.47	17.51	-4.97	-4.55	18.98	11.65	14.50	2.06
1985.75	13.14	17.27	-3.21	13.94	17.86	-3.61	-3.41	10.90	12.79	6.18	1.97
1985.83	14.06	17.95	-1.54	14.90	18.57	-2.01	-1.78	10.53	13.50	6.13	1.90
1985.92	15.74	19.19	-0.45	16.81	19.98	-1.14	-0.80	14.02	14.95	9.07	1.78
1986.00	16.22	19.54	-1.33	16.94	20.07	-1.71	-1.52	12.17	15.14	6.81	1.76
1986.08	16.97	20.10	-1.42	17.94	20.81	-1.76	-1.59	16.00	16.04	10.26	1.68
1986.17	16.26	19.57	-3.07	17.31	20.34	-3.61	-3.35	26.98	15.31	20.30	1.74
1986.25	15.46	18.98	-4.82	16.20	19.53	-4.95	-4.89	51.00	14.79	44.13	1.78
1986.33	14.75	18.46	-8.31	15.54	19.04	-8.56	-8.44	69.06	13.96	61.97	1.85
1986.42	13.54	17.57	-8.44	14.40	18.20	-8.63	-8.54	72.28	12.72	65.97	1.95
1986.50	12.77	17.00	-8.33	13.81	17.76	-8.62	-8.48	49.50	11.88	43.67	2.03



1986.58	12.29	16.64	-7.44	13.15	17.28	-7.91	-7.68	32.09	11.80	26.72	2.04
1986.67	12.66	16.92	-5.99	13.46	17.51	-6.55	-6.27	36.05	11.98	31.22	2.03
1986.75	13.74	17.72	-4.78	14.46	18.24	-5.09	-4.94	32.24	12.74	27.40	1.96
1986.83	14.16	18.02	-1.64	15.03	18.66	-2.36	-2.01	12.72	13.13	8.35	1.94
1986.92	15.43	18.96	-4.66	16.13	19.47	-4.28	-4.47	17.64	14.53	12.75	1.81
1987.00	17.34	20.37	-0.96	17.83	20.73	-1.31	-1.14	13.40	16.02	7.71	1.69
1987.08	18.66	21.34	-1.75	19.08	21.65	-2.23	-1.99	17.56	17.00	11.46	1.60
1987.17	17.29	20.34	-2.59	17.92	20.80	-3.20	-2.90	23.28	15.86	16.41	1.70
1987.25	16.43	19.70	-4.07	17.42	20.42	-4.52	-4.30	59.99	15.16	53.03	1.75
1987.33	14.90	18.57	-6.71	16.09	19.45	-7.18	-6.95	123.56	14.42	116.32	1.79
1987.42	13.71	17.69	-6.33	14.73	18.45	-6.70	-6.52	49.47	12.57	43.44	1.97
1987.50	13.02	17.18	-5.31	13.95	17.87	-6.09	-5.71	23.01	12.47	16.96	1.99
1987.58	12.58	16.86	-5.61	13.42	17.48	-6.02	-5.82	58.26	12.09	52.88	2.01
1987.67	12.78	17.01	-4.68	13.77	17.74	-5.52	-5.11	37.18	12.46	32.23	1.99
1987.75	12.67	16.93	-1.24	13.73	17.70	-2.09	-1.67	10.97	12.19	6.54	2.02
1987.83	14.36	18.17	-1.23	15.47	18.99	-1.90	-1.57	16.18	13.66	11.69	1.89
1987.92	16.10	19.45	-2.13	16.70	19.89	-2.64	-2.39	12.64	14.66	7.80	1.80
1988.00	17.60	20.56	-0.60	18.28	21.07	-0.72	-0.66	18.35	16.42	12.52	1.65
1988.08	18.68	21.36	-2.05	18.99	21.58	-2.14	-2.10	33.18	17.29	26.98	1.57
1988.17	17.23	20.29	-3.27	18.18	20.99	-3.85	-3.56	28.08	16.83	20.68	1.61
1988.25	17.55	20.53	-4.91	18.70	21.37	-5.52	-5.22	43.98	16.52	36.21	1.63
1988.33	15.91	19.32	-4.88	16.89	20.03	-5.42	-5.15	79.59	14.70	72.23	1.78
1988.42	14.13	18.00	-9.51	15.51	19.02	-9.98	-9.75	93.72	13.42	87.20	1.88
1988.50	12.65	16.91	-7.70	13.70	17.69	-8.28	-8.00	59.99	12.46	54.02	1.98
1988.58	12.10	16.50	-7.03	13.30	17.39	-7.95	-7.50	54.49	11.76	49.39	2.04
1988.67	12.61	16.88	-5.76	13.68	17.67	-6.36	-6.07	49.19	12.30	44.40	2.00
1988.75	11.69	16.20	-3.58	12.94	17.12	-4.53	-4.07	20.48	11.43	16.49	2.08
1988.83	14.00	17.91	-3.51	14.61	18.36	-4.40	-3.96	9.25	12.74	5.23	1.97
1988.92	15.65	19.12	-0.76	16.24	19.56	-1.09	-0.93	10.27	14.61	5.50	1.81
1989.00	16.48	19.74	-1.74	17.13	20.21	-2.06	-1.90	10.67	15.66	5.16	1.72
1989.08	17.36	20.38	-1.63	18.22	21.02	-1.99	-1.81	9.58	16.61	3.67	1.64
1989.17	16.92	20.06	-1.89	17.98	20.84	-2.65	-2.28	14.12	16.28	6.98	1.66
1989.25	16.37	19.65	-5.83	17.54	20.51	-7.80	-6.84	69.39	15.77	62.03	1.69
1989.33	14.92	18.58	-6.56	16.09	19.45	-6.81	-6.69	47.16	14.11	40.14	1.84
1989.42	12.70	16.94	-6.62	13.82	17.77	-7.41	-7.02	34.10	12.34	28.22	2.00
1989.50	12.54	16.83	-6.77	13.53	17.56	-7.39	-7.09	43.10	12.10	37.29	2.01
1989.58	12.53	16.82	-5.41	13.37	17.44	-6.14	-5.78	31.00	11.75	25.82	2.05
1989.67	12.52	16.81	-2.96	13.68	17.67	-4.03	-3.51	22.31	11.97	17.62	2.03
1989.75	12.35	16.69	-1.72	13.46	17.51	-3.00	-2.38	15.24	12.10	10.84	2.02

1989.83	14.87	18.55	-1.23	15.83	19.25	-2.11	-1.68	21.17	14.17	16.44	1.84
1989.92	16.14	19.48	-2.51	17.35	20.38	-3.14	-2.83	22.16	15.44	16.96	1.73
1990.00	16.11	19.46	-1.34	17.12	20.20	-1.76	-1.55	13.74	15.74	8.07	1.71
1990.08	16.79	19.96	-1.44	17.97	20.83	-1.82	-1.63	13.59	15.96	7.89	1.69
1990.17	16.34	19.63	-2.39	17.52	20.50	-3.18	-2.79	13.40	15.69	6.49	1.72
1990.25	15.63	19.11	-3.47	16.53	19.77	-3.88	-3.68	43.10	14.93	36.14	1.77
1990.33	14.50	18.28	-7.34	15.90	19.31	-8.05	-7.70	79.49	13.82	72.48	1.85
1990.42	13.82	17.77	-6.83	14.86	18.54	-7.25	-7.04	59.75	12.77	53.41	1.95
1990.50	11.84	16.31	-5.50	13.07	17.22	-6.60	-6.06	28.77	11.19	23.38	2.10
1990.58	11.39	15.98	-4.97	12.52	16.82	-5.63	-5.31	28.73	10.68	24.03	2.14
1990.67	12.79	17.01	-2.86	13.68	17.67	-3.83	-3.35	16.03	11.93	11.22	2.04
1990.75	13.98	17.89	-2.67	14.81	18.50	-3.10	-2.89	18.83	13.11	13.78	1.94
1990.83	14.30	18.12	-2.43	15.23	18.81	-3.13	-2.79	15.26	13.33	10.79	1.92
1990.92	15.57	19.06	-1.55	16.61	19.83	-1.95	-1.75	12.25	14.32	7.44	1.83
1991.00	17.26	20.31	-1.46	17.72	20.65	-1.77	-1.62	11.78	15.79	6.14	1.71
1991.08	17.97	20.83	-1.64	18.60	21.30	-1.76	-1.70	26.44	16.77	20.39	1.62
1991.17	16.96	20.09	-1.52	17.62	20.58	-2.54	-2.04	10.54	15.74	3.65	1.71
1991.25	17.26	20.31	-5.36	18.09	20.92	-4.18	-4.76	54.93	16.06	47.30	1.67
1991.33	15.59	19.08	-7.91	16.60	19.82	-8.96	-8.45	150.73	14.94	143.02	1.73
1991.42	13.31	17.39	-6.35	14.46	18.24	-7.06	-6.71	33.27	12.31	27.30	2.00
1991.50	12.42	16.74	-6.68	13.36	17.43	-7.43	-7.06	37.97	11.95	32.15	2.03
1991.58	11.59	16.13	-6.40	12.79	17.01	-7.11	-6.76	26.32	11.14	21.41	2.10
1991.67	12.05	16.47	-2.32	13.09	17.23	-2.96	-2.65	17.71	11.48	13.21	2.08
1991.75	12.57	16.85	-2.32	13.49	17.53	-3.17	-2.75	19.17	11.95	14.77	2.04
1991.83	13.46	17.51	-1.13	14.48	18.26	-1.86	-1.50	16.72	12.62	12.62	1.98
1991.92	15.22	18.81	-1.26	16.32	19.61	-1.86	-1.57	12.62	14.52	7.77	1.82
1992.00	16.64	19.85	-1.35	17.43	20.43	-1.70	-1.53	13.73	16.21	7.86	1.67
1992.08	17.12	20.20	-2.03	17.87	20.76	-2.50	-2.27	9.73	16.28	3.89	1.67
1992.17	16.98	20.10	-2.24	18.04	20.89	-3.27	-2.76	15.64	16.07	8.52	1.68
1992.25	16.32	19.62	-3.53	17.24	20.29	-3.24	-3.38	46.49	15.94	38.91	1.68
1992.33	15.02	18.66	-5.10	15.95	19.34	-5.50	-5.30	35.71	14.16	28.50	1.84
1992.42	13.05	17.20	-5.46	14.03	17.93	-6.43	-5.95	27.47	12.05	21.63	2.02
1992.50	12.17	16.55	-8.49	13.25	17.35	-8.98	-8.74	50.51	11.45	44.99	2.07
1992.58	11.21	15.85	-5.97	12.26	16.63	-6.44	-6.21	31.54	10.60	26.92	2.15
1992.67	11.63	16.16	-4.18	12.68	16.93	-5.08	-4.64	31.49	11.06	27.17	2.11
1992.75	12.23	16.60	-1.63	13.30	17.39	-2.04	-1.84	10.68	11.78	6.33	2.05
1992.83	14.58	18.34	-2.01	15.42	18.95	-2.36	-2.19	15.30	13.87	10.60	1.87
1992.92	15.64	19.11	-0.31	16.54	19.78	-0.80	-0.56	11.32	14.54	6.44	1.81
1993.00	17.86	20.75	-2.90	18.52	21.24	-2.88	-2.89	30.73	16.85	24.55	1.61

1993.08	17.90	20.78	-1.21	18.76	21.42	-1.63	-1.42	11.08	16.62	5.09	1.64
1993.17	16.99	20.11	-3.38	17.75	20.67	-4.13	-3.76	66.25	16.13	59.11	1.66
1993.25	15.89	19.30	-3.96	17.00	20.12	-3.95	-3.95	46.15	15.05	39.16	1.76
1993.33	14.23	18.07	-5.78	15.14	18.74	-6.19	-5.99	36.84	13.06	30.41	1.93
1993.42	14.58	18.33	-7.06	15.47	18.99	-7.35	-7.21	76.80	13.23	70.20	1.91
1993.50	12.94	17.12	-7.40	13.87	17.81	-7.86	-7.63	48.55	11.60	42.96	2.06
1993.58	12.54	16.83	-8.69	13.32	17.41	-9.25	-8.97	67.45	11.84	62.10	2.03
1993.67	12.02	16.44	-4.85	12.92	17.11	-5.55	-5.21	18.40	11.29	13.98	2.09
1993.75	12.57	16.85	-1.50	13.70	17.68	-2.18	-1.85	15.90	11.96	11.49	2.04
1993.83	14.05	17.94	-0.81	15.07	18.69	-1.19	-1.00	12.10	13.19	7.73	1.93
1993.92	15.29	18.86	-1.55	16.07	19.44	-2.04	-1.80	12.45	14.11	7.78	1.85
1994.00	16.76	19.94	-2.72	17.07	20.17	-3.10	-2.91	11.90	15.85	6.28	1.70
1994.08	17.13	20.21	-1.91	17.56	20.53	-2.01	-1.96	10.39	15.67	4.92	1.72
1994.17	16.71	19.90	-1.61	17.66	20.61	-2.02	-1.82	9.71	15.54	3.01	1.73
1994.25	16.62	19.84	-4.39	17.63	20.58	-4.65	-4.52	65.16	15.28	58.10	1.73
1994.33	16.06	19.42	-5.93	17.03	20.14	-6.54	-6.24	102.45	14.92	94.82	1.75
1994.42	14.25	18.09	-5.58	15.10	18.72	-5.86	-5.72	48.54	12.94	42.23	1.94
1994.50	12.21	16.58	-8.79	13.25	17.35	-9.23	-9.01	55.95	11.36	50.60	2.07
1994.58	12.44	16.75	-7.86	13.28	17.38	-8.53	-8.20	60.20	12.06	54.80	2.01
1994.67	12.90	17.10	-6.23	14.08	17.96	-6.78	-6.51	56.30	12.29	51.41	1.99
1994.75	13.76	17.73	-2.32	14.69	18.41	-2.97	-2.65	12.69	12.85	7.89	1.96
1994.83	14.58	18.33	-1.38	15.58	19.07	-2.09	-1.74	9.88	13.46	5.45	1.91
1994.92	16.35	19.64	-2.74	17.27	20.32	-3.41	-3.08	24.97	15.47	19.73	1.73
1995.00	17.77	20.69	-1.69	18.70	21.37	-1.76	-1.73	14.25	16.76	8.20	1.62
1995.08	18.66	21.34	-2.23	19.16	21.71	-1.87	-2.05	13.35	17.37	7.07	1.57
1995.17	17.48	20.47	-3.89	18.45	21.19	-4.14	-4.02	30.35	16.35	23.19	1.65
1995.25	16.13	19.47	-5.80	17.28	20.32	-6.10	-5.95	42.20	15.06	35.32	1.76
1995.33	14.32	18.14	-4.87	15.62	19.10	-5.19	-5.03	16.85	13.10	10.53	1.94
1995.42	13.95	17.87	-6.18	14.79	18.49	-6.60	-6.39	29.17	12.66	23.10	1.97
1995.50	12.87	17.07	-5.28	13.95	17.87	-5.89	-5.59	38.29	12.28	32.38	2.00
1995.58	11.66	16.18	-7.92	12.47	16.78	-8.26	-8.09	36.65	11.08	31.90	2.10
1995.67	12.34	16.68	-2.67	13.23	17.34	-3.20	-2.94	18.86	12.08	14.13	2.02
1995.75	13.57	17.59	-2.42	14.33	18.15	-2.79	-2.61	9.70	12.77	4.98	1.97
1995.83	15.19	18.78	-2.72	15.89	19.30	-2.86	-2.79	35.53	14.32	30.74	1.83
1995.92	15.84	19.26	-1.84	16.63	19.84	-2.25	-2.05	12.74	14.94	7.78	1.78
1996.00	16.67	19.88	-1.01	17.51	20.49	-1.56	-1.29	8.70	15.77	3.06	1.71
1996.08	18.08	20.91	-0.46	18.81	21.45	-0.86	-0.66	10.88	17.15	4.63	1.59
1996.17	17.29	20.33	-2.36	17.89	20.77	-2.65	-2.51	13.01	15.85	6.04	1.70
1996.25	15.68	19.15	-6.34	16.78	19.95	-8.06	-7.22	29.04	14.70	22.27	1.80

1996.33	14.49	18.27	-6.27	15.69	19.15	-6.61	-6.44	71.81	13.31	65.20	1.90
1996.42	13.85	17.80	-9.69	14.78	18.48	-10.20	-9.95	102.26	13.42	95.54	1.88
1996.50	12.54	16.83	-5.97	13.75	17.72	-6.71	-6.35	40.70	12.34	34.61	1.99
1996.58	11.45	16.02	-7.81	12.51	16.80	-8.48	-8.15	54.85	10.85	50.10	2.12
1996.67	11.44	16.01	-4.25	12.71	16.95	-5.10	-4.69	22.87	10.92	18.65	2.12
1996.75	13.30	17.39	-1.85	14.27	18.11	-2.73	-2.30	16.89	12.32	12.30	2.00
1996.83	14.07	17.96	-1.64	15.13	18.74	-2.08	-1.86	12.00	13.39	7.54	1.91
1996.92	15.81	19.24	-2.16	16.60	19.83	-2.66	-2.41	17.64	14.91	12.60	1.78
1997.00	17.46	20.46	-1.99	17.99	20.85	-1.99	-1.99	20.02	16.14	14.24	1.67
1997.08	16.89	20.04	-1.36	17.67	20.61	-1.70	-1.53	11.02	15.50	5.62	1.73
1997.17	17.27	20.32	-2.78	17.89	20.78	-3.10	-2.94	18.88	15.99	11.89	1.69
1997.25	16.24	19.56	-5.06	17.18	20.25	-5.37	-5.22	42.17	15.53	34.94	1.72
1997.33	15.49	19.01	-8.88	16.36	19.64	-9.80	-9.35	106.80	14.54	99.43	1.78
1997.42	13.96	17.88	-8.63	14.64	18.38	-8.84	-8.74	71.63	13.36	65.01	1.90
1997.50	12.72	16.96	-8.74	14.04	17.93	-8.43	-8.58	52.97	11.97	47.20	2.02
1997.58	12.40	16.72	-5.46	13.28	17.37	-5.96	-5.71	28.71	11.48	23.65	2.07
1997.67	12.28	16.64	-4.21	13.25	17.35	-5.01	-4.62	23.99	11.75	19.38	2.05
1997.75	13.10	17.24	-1.99	14.20	18.05	-2.87	-2.44	11.80	12.42	7.21	2.00
1997.83	14.59	18.34	-3.22	15.62	19.10	-3.73	-3.48	21.96	13.45	17.52	1.91
1997.92	16.54	19.78	-2.16	17.31	20.35	-2.68	-2.42	11.54	15.00	6.50	1.78
1998.00	18.24	21.04	-1.43	18.92	21.53	-1.44	-1.44	11.47	16.81	5.45	1.62
1998.08	18.16	20.98	-2.32	18.66	21.34	-2.22	-2.27	14.33	16.69	8.43	1.63
1998.17	18.19	20.99	-5.35	19.10	21.67	-4.74	-5.04	44.63	17.24	36.97	1.57
1998.25	16.69	19.89	-2.07	17.73	20.66	-2.96	-2.52	12.70	15.27	5.75	1.75
1998.33	15.43	18.96	-4.69	16.43	19.70	-5.21	-4.95	40.71	14.48	33.51	1.81
1998.42	14.49	18.27	-6.33	15.62	19.10	-6.75	-6.54	55.94	13.68	49.23	1.87
1998.50	12.56	16.84	-6.61	13.62	17.62	-7.17	-6.90	36.75	12.09	31.04	2.02
1998.58	12.40	16.73	-6.36	13.46	17.51	-7.03	-6.70	52.90	12.03	47.63	2.02
1998.67	11.94	16.38	-2.52	12.89	17.09	-3.37	-2.95	12.75	11.60	8.34	2.07
1998.75	13.11	17.25	-0.81	14.24	18.08	-1.76	-1.30	11.45	12.39	6.97	2.00
1998.83	14.17	18.03	-0.25	15.28	18.85	-1.24	-0.76	13.78	13.44	9.44	1.91
1998.92	15.80	19.23	-0.94	16.60	19.82	-1.60	-1.28	12.09	14.87	7.21	1.79
1999.00	16.16	19.50		16.87	20.02		0.00	6.90	15.48	1.49	1.74
1999.08	17.05	20.16	-1.26	17.88	20.76	-1.69	-1.48	12.76	16.05	7.14	1.68
1999.17	17.06	20.17	-3.02	17.55	20.52	-3.51	-3.27	13.75	15.85	6.89	1.70
1999.25	16.60	19.82	-4.86	17.25	20.30	-5.03	-4.95	26.24	15.55	19.04	1.72
1999.33	15.40	18.94	-4.25	16.36	19.64	-4.96	-4.61	33.73	14.00	26.79	1.85
1999.42	14.01	17.92	-8.48	15.26	18.83	-9.00	-8.75	67.24	12.96	60.96	1.93
1999.50	13.24	17.35	-7.93	14.25	18.09	-8.25	-8.09	88.53	12.75	82.29	1.94

1999.58	12.16	16.55	-7.86	13.26	17.36	-8.64	-8.26	54.55	11.60	49.48	2.05
1999.67	12.30	16.65	-2.21	13.27	17.36	-2.85	-2.54	17.22	11.61	12.74	2.07
1999.75	13.39	17.45	-2.33	14.18	18.04	-2.98	-2.66	12.12	12.60	7.49	1.98
1999.83	15.41	18.95	-2.24	16.00	19.38	-2.73	-2.49	17.88	14.12	13.17	1.85
1999.92	17.14	20.22	-4.13	17.65	20.60	-4.24	-4.19	31.25	16.21	25.68	1.66
2000.00	17.22	20.28	-0.25	18.07	20.90	-0.47	-0.36	11.75	16.29	5.89	1.66
2000.08	17.69	20.63	-1.71	18.28	21.06	-1.92	-1.82	18.10	16.94	12.00	1.61
2000.17	16.98	20.10	-1.96	17.98	20.84	-2.48	-2.22	10.52	16.15	3.42	1.68
2000.25	16.73	19.92	-5.11	17.75	20.67	-5.02	-5.06	51.81	15.95	44.30	1.68
2000.33	14.80	18.50	-7.17	15.61	19.09	-7.35	-7.26	70.74	14.10	63.67	1.83
2000.42	13.95	17.87	-8.21	14.82	18.51	-8.37	-8.29	66.10	13.17	59.61	1.91
2000.50	11.76	16.26	-6.83	12.96	17.13	-7.60	-7.23	31.57	11.48	26.12	2.07
2000.58	11.52	16.08	-7.35	12.74	16.98	-7.76	-7.56	22.05	10.97	17.30	2.12
2000.67	12.11	16.51	-3.46	13.46	17.51	-4.40	-3.94	18.82	11.36	14.43	2.09
2000.75	12.83	17.04	-0.92	14.09	17.97	-1.73	-1.34	18.50	12.73	13.75	1.97
2000.83	13.98	17.89	-1.55	15.16	18.76	-2.07	-1.82	14.26	13.01	10.02	1.95
2000.92	15.49	19.01	-0.43	16.39	19.67	-0.87	-0.65	14.43	14.62	9.57	1.81
2001.00	16.24	19.55	-1.86	17.13	20.21	-2.23	-2.05	14.48	15.42	9.08	1.74
2001.08	17.05	20.15	-0.04	17.87	20.76	-0.47	-0.26	15.79	16.15	10.10	1.68
2001.17	16.21	19.53	-0.75	17.40	20.41	-1.45	-1.11	8.75	15.35	2.17	1.75
2001.25	16.87	20.02	-3.53	17.73	20.65	-3.73	-3.63	30.88	15.94	23.41	1.69
2001.33	15.08	18.70	-8.58	16.11	19.46	-7.77	-8.17	67.88	13.77	61.08	1.86
2001.42	15.07	18.70	-9.95	15.99	19.38	-11.24	-10.61	70.51	13.56	63.79	1.88
2001.50	13.56	17.58	-8.53	14.61	18.35	-8.83	-8.68	94.31	12.87	87.97	1.93
2001.58	12.35	16.69	-6.75	13.54	17.57	-7.64	-7.21	39.52	11.57	34.44	2.06
2001.67	12.65	16.91	-4.11	13.80	17.76	-4.51	-4.31	28.02	12.11	23.25	2.02
2001.75	12.96	17.14	-1.84	13.85	17.80	-2.45	-2.15	12.58	12.33	8.06	2.00
2001.83	14.41	18.21	-1.58	15.51	19.02	-2.12	-1.86	17.42	14.10	12.71	1.85
2001.92	16.03	19.40	-1.12	16.87	20.02	-1.48	-1.30	10.53	15.02	5.51	1.77
2002.00	17.25	20.30	-1.66	17.95	20.82	-1.81	-1.74	12.44	15.99	6.65	1.69
2002.08	17.24	20.30	-2.31	18.01	20.86	-2.42	-2.37	14.55	15.94	8.85	1.69
2002.17	17.22	20.28	-2.48	18.08	20.92	-2.80	-2.64	16.85	15.96	9.77	1.69
2002.25	16.00	19.38	-3.54	16.84	20.00	-3.85	-3.70	21.75	15.57	14.37	1.72
2002.33	14.55	18.31	-8.55	15.81	19.24	-7.98	-8.26	74.40	13.65	67.51	1.87
2002.42	13.16	17.29	-7.07	14.48	18.26	-7.87	-7.48	51.73	12.13	45.81	2.01
2002.50	11.84	16.31	-8.57	12.97	17.14	-9.10	-8.84	51.21	11.35	45.72	2.08
2002.58	11.77	16.26	-7.92	12.78	17.00	-8.58	-8.26	48.16	11.42	43.01	2.07
2002.67	11.73	16.23	-6.52	12.71	16.95	-7.34	-6.94	44.41	11.26	39.96	2.09
2002.75	12.98	17.15	-3.63	13.65	17.65	-4.26	-3.95	17.42	12.00	12.94	2.03

2002.83	13.81	17.76	-1.62	14.74	18.45	-2.20	-1.92	12.97	13.14	8.59	1.94
2002.92	15.91	19.31	-0.21	16.83	19.99	-0.39	-0.30	10.70	14.96	5.60	1.78
2003.00	17.32	20.35	-0.08	17.92	20.80	-0.27	-0.18	12.52	15.98	6.82	1.69
2003.08	17.90	20.78	-0.92	18.77	21.42	-1.34	-1.13	28.23	16.90	22.14	1.61
2003.17	17.38	20.40	-1.52	18.35	21.11	-2.47	-2.00	18.37	16.30	11.18	1.66
2003.25	16.44	19.71	-3.49	17.30	20.34	-3.67	-3.58	85.36	15.59	78.07	1.70
2003.33	14.99	18.64	-4.98	15.91	19.31	-5.61	-5.30	60.26	14.20	53.11	1.83
2003.42	13.31	17.40	-8.12	14.36	18.17	-8.34	-8.23	86.34	12.67	80.19	1.95
2003.50	13.04	17.19	-9.08	14.01	17.91	-9.49	-9.29	81.43	12.38	75.38	1.98
2003.58	11.38	15.97	-7.05	12.55	16.83	-7.70	-7.38	24.25	10.62	19.70	2.15
2003.67	12.00	16.43	-2.39	13.12	17.26	-3.14	-2.77	14.07	11.33	9.69	2.09
2003.75	12.61	16.88	-1.74	13.51	17.54	-2.63	-2.19	19.07	11.96	14.70	2.03
2003.83	15.09	18.71	-1.94	15.77	19.21	-2.00	-1.97	22.25	13.75	17.67	1.88
2003.92	16.21	19.54	-2.13	16.82	19.98	-2.46	-2.30	11.36	14.91	6.36	1.78