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1-1-1986

CHSAC Working Group on Data Identification and Interpretation Data Set Inventory Request

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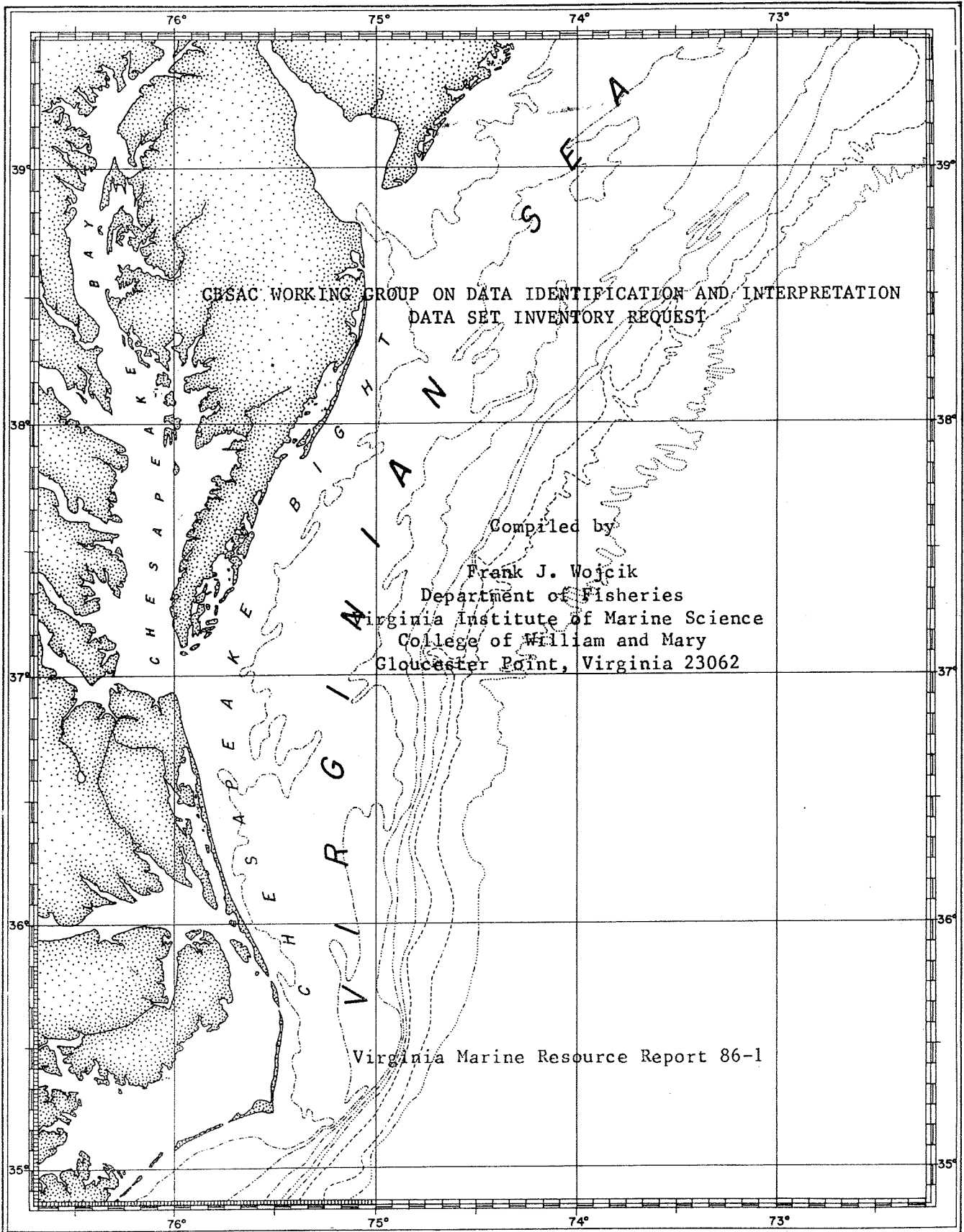


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Wojcik, F. J. (1986) CHSAC Working Group on Data Identification and Interpretation Data Set Inventory Request. Marine Resource Report No. 86-1. Virginia Institute of Marine Science, College of William and Mary. <http://dx.doi.org/doi:10.21220/m2-cmt6-0s70>

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CBSAC WORKING GROUP ON DATA IDENTIFICATION AND INTERPRETATION
FINFISH DATA SET INVENTORY REQUEST

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Virginia Marine Resource Report 86-1

CBSAC WORKING GROUP ON DATA IDENTIFICATION AND INTERPRETATION
DATA SET INVENTORY REQUEST

Documentation of Virginia Juvenile Finfish Distribution and Abundance Survey

The VIMS data file CURRENT.STATION.FILE contains about 60,000 records of catch of juvenile fishes made with either a 16' or 30' semi-balloon trawl in the York, James, Rappahannock, and Potomac Rivers, as well as Chesapeake Bay, and Atlantic Ocean. These data span the years 1955 to 1984. It contains along with data on catch of juvenile fishes, hydrographic data. Summarization of this data file for the 30' trawl is presented in APPENDIX A, and for the 16' trawl in APPENDIX B. These appendices provide documentation of the location and time of the samples, gear type, and vessel. Gear codes used in these files are presented in APPENDIX C, and vessel codes in APPENDIX D.

A sister data file, CURRENT.LENGTH.FILE contains corresponding length measurements from sub-samples of the fish taken. Jointly, the two files can be used to determine the length frequencies for the sample, and then to derive the percentage of each age for each species taken. This enables one to establish an index for young-of-the-year fish by species.

Chesapeake Bay

Virginia's portion of Chesapeake Bay, including the Eastern Shore, has been sampled from 1955 to 1984, but in the early years the Bay was sampled as an extension of the York River ten miles out from its mouth. Between 1975 to 1979, the stratified randomized survey was extended to the full length of the Bay. Since that time Bay stations have been sampled on an irregular basis, usually in response to a request related to dumping, or channel deepening.

York River and Tributaries

Survey data on the York River and its tributary, the Pamunkey River, are the most comprehensive, running from 1955 to 1984. In addition some data for the other tributary, the Mattaponi River are also available. Fixed stations have been taken primarily in the channel every month, at approximately 5 mile intervals, from mile -10 to 50. The exceptions occurred in 1975 to 1979 when this river was sampled twice a year summer and winter, instead of every month. The sampling during these five years was randomized, and stratified into five depth strata 3'-11', 12'-19', 20'-29', 30'-49', and 50' or over, instead of just the channel.

James River and Tributaries

Monthly sampling of fixed stations in the James River from its mouth almost to Richmond, as well as its tributaries commenced in 1964 and has continued through 1984, except for the period 1975 to 1979, when stratified randomized stations were occupied. Several tributaries of the James were also sampled on an irregular basis. These include the Chickahominy, Elizabeth, Nansemond, Warwick, Pagen, Hampton, Appomattox Rivers, Turkey Island, Jones' Neck, and Hatcher Island Oxbows. The Elizabeth River has received a considerable amount of study the last few years. Primarily with fixed stations.

Rappahannock River

Fixed stations have been sampled monthly on the Rappahannock River between 1967 and 1984, with the exception of 1975 to 1979 when randomized stratified stations were occupied. This river has been sampled from mile 0 to mile 55.

Potomac River

Fixed stations were sampled on the Potomac River from the mouth, to the restricted area off Dahlgren, and then upriver to about Quantico; between 1974 and 1984, and as randomized stations between 1975 and 1979. The Potomac is seldom sampled more than twice a year, and occasionally not at all.

Mobjack Bay and Tributaries

Occasional samples have been taken from Mobjack Bay and its tributaries, the Ware, East, and North Rivers. Some samples have been taken in the Piankatank River.

Eastern Shore Bay and Ocean Side

A two year survey was made on the Eastern shore of the Bay in 1966 and 1967. A few sporadic sample have also been taken in the ocean from the Eastern shore down to Rudee Inlet.

Species for Which Data are Available

Although a large number of species of fish, primarily juveniles, have been taken in the trawl surveys, less than ten species are taken in sufficient numbers to be useful for stock evaluation.

Sciaenids along with other Chesapeake Bay bottom fish comprise the group which are best sampled in the Bay and tributary rivers. These include: **Atlantic croaker, spot, weakfish, striped bass, white perch, summer flounder.** In addition to those commercially important species, two other species, which might prove useful as biological indicators, the **bay anchovy and hogchoker** are taken in large quantities.

List of Time Series Available

Concurrent hydrographic data have been collected along with the biological data on all juvenile fish surveys. Data collected include surface and bottom temperature, salinity, dissolved oxygen. Secchi disk, tidal condition, weather and sea state are also measured. In addition temperature data has been collected daily since 1946 at the VIMS pier. Vertical sections of temperature, salinity, and d.o. have been collected monthly during the VIMS slack water runs.

Locations of Station Data Presented in Appendices

Trawl station data presented in the appendices are specified by trawl size: Appendix A referring to the 30' trawl, Appendix B to a 16' trawl. The data in each appendix is then listed separately for each river system. Along with modifications to the trawls which occurred over time. Keys to coded data is available on request.

Locations of tabular data follow:

Columns 10-17: VIMS Fisheries Dept. collections numbers.

Columns 21-30: Date in the order of Day/Month/Year.

Columns 34-35: Vessel Codes.

Columns 39-40: Gear Code.

Columns 44-45: Duration of tow in minutes. or distance covered in miles

Columns 58-65: Area from which data was collected by stations

APPENDIX A

ATLANTIC OCEAN STATIONS MADE WITH 30" SEMI-BALLOON TRAWL
-WITH VARIOUS CONFIGURATIONS

30" UNLINED SEMI-BALLOON TRAWL (10)

F 64	23/04/1964	PA	10	15	AO
F 66	23/04/1964	PA	10	15	AO
F 70	23/04/1964	PA	10	15	AO
F150	15/07/1964	LA	10	08	AO
N135-138	30/06/1965	PA	10	08	AO -
N159-163	29/07/1965	PA	10	15	AO -ES
N164	30/07/1965	PA	10	15	AO
F124	05/04/1971	PA	10	15	AO05
F173-174	10/05/1971	PA	10	05	AO05 -06
F246	12/07/1971	PA	10	05	AO05
F320	09/08/1971	PA	10	05	AO05
F394	13/09/1971	PA	10	05	AO05
F468	12/10/1971	PA	10	05	AO05
F615	13/12/1971	PA	10	05	AO05

30" LINED SEMI-BALLOON TRAWL (33)

I851	30/08/1978	JS	33	05	C0979
I829-838	21/07/1978	PA	33	25	RIAD001-010

30" LINED SEMI-BALLOON TRAWL, WITH TICKLER CHAIN
30" BRIDLE (68)

I690	02/10/1979	PA	68	05	RIAD001
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CHESAPEAKE BAY STATIONS MADE WITH 30" SEMI-BALLOON TRAWL
 - WITH VARYING CONFIGURATIONS

30" UNLINED TRAWL (10)

F 54	01/05/1955	VL	10	15	CB00
F 98	08/06/1955	VL	10	15	CB00
F131-132	06/07/1955	VL	10	15	CB10 -10
F135	06/07/1955	VL	10	08	CB15
F199	01/08/1955	VL	10	15	CB00
F 26- 30	19/04/1956	VL	10	15	CB00 -15
F 66- 69	28/05/1956	VL	10	15	CB00 -10
F 70	29/05/1956	VL	10	15	CB15
F 91- 94	23/07/1956	VL	10	15	CB00 -10
F 95	24/07/1956	VL	10	15	CB15
F112	06/08/1956	VL	10	15	CB10
F115	06/08/1956	VL	10	15	CB00
F117	07/08/1956	VL	10	15	CB00
F140-143	20/08/1956	VL	10	15	CB00 -10
F144	21/08/1956	VL	10	15	CB15
F174-177	07/09/1956	VL	10	15	CB00 -10
F178	10/09/1956	VL	10	15	CB15
F209-212	15/10/1956	VL	10	15	CB00 -10
F213	16/10/1956	VL	10	15	CB15
F225	12/11/1956	VL	10	15	CB15
F229-232	14/11/1956	VL	10	15	CB00 -10
F242-245	10/12/1956	VL	10	15	CB00 -10
F246	11/12/1956	VL	10	15	CB15
F 1	14/01/1957	VL	10	15	CB15
F 6- 9	15/01/1957	VL	10	15	CB00 -10
F 16- 17	11/02/1957	VL	10	15	CB10 -10
F 18	12/02/1957	VL	10	15	CB15
F 30- 31	18/02/1957	VL	10	15	CB00 -00
F 32	12/03/1957	VL	10	15	CB15
F 36- 39	13/03/1957	VL	10	15	CB00 -10
F 61	15/05/1957	VL	10	15	CB15
F 69- 76	22/07/1957	PA	10	15	CB00 -10
F 77- 78	24/07/1957	PA	10	15	CB15 -15
F 79- 82	21/08/1957	PA	10	15	CB00 -10
F 83	26/08/1957	PA	10	15	CB15
F108	16/09/1957	PA	10	15	CB00
F133-139	24/09/1957	PA	10	08	CB00 -10
F140	25/09/1957	PA	10	15	CB15
F170-174	16/10/1957	PA	10	15	CB00 -15
F176-180	19/11/1957	PA	10	15	CB00 -15
F192-195	10/12/1957	PA	10	15	CB00 -10
F197	11/12/1957	PA	10	15	CB15
F 1	06/01/1958	PA	10	15	CB00
F 23	14/01/1958	PA	10	15	CB15
F 27	15/01/1958	PA	10	15	CB10
F 29- 30	15/01/1958	PA	10	15	CB00 -00
F 47- 50	12/02/1958	PA	10	15	CB00 -10
F 54	13/02/1958	PA	10	15	CB15

F 66	12/03/1958	PA	10	15	CB10
F 68	12/03/1958	PA	10	15	CB00
F101-104	15/04/1958	PA	10	15	CB00 -10
F116	18/04/1958	PA	10	15	CB15
F143-147	19/05/1958	PA	10	15	CB10 -15
F170-173	17/06/1958	PA	10	15	CB00 -10
F174	18/06/1958	PA	10	15	CB15
F194	17/07/1958	PA	10	15	CB10
F196-198	17/07/1958	PA	10	15	CB00 -15
F273-277	13/08/1958	PA	10	15	CB00 -15
F292-296	26/09/1958	PA	10	15	CB00 -15
F297-301	14/10/1958	PA	10	15	CB10 -15
F314-318	11/11/1958	PA	10	15	CB00 -15
F330-334	16/12/1958	PA	10	15	CB00 -15
F162-164	15/04/1959	PA	10	15	CB00 -10
F229-233	22/06/1959	PA	10	15	CB00 -15
F274	15/07/1959	PA	10	15	CB15
F276-278	15/07/1959	PA	10	15	CB00 -10
F308-312	12/08/1959	PA	10	15	CB00 -15
F325-329	09/09/1959	PA	10	15	CB10 -15
F342-346	13/10/1959	PA	10	15	CB00 -15
F429	12/11/1959	PA	10	15	CB15
F430-433	23/11/1959	PA	10	15	CB00 -10
F178-182	10/05/1960	PA	10	15	CB00 -15
F273-276	30/06/1960	PA	10	15	CB00 -15
F281-285	13/07/1960	PA	10	15	CB00 -15
F321-325	08/08/1960	PA	10	15	CB00 -15
F 79	09/05/1961	PA	10	15	CB10
F 81	09/05/1961	PA	10	15	CB00
F120	06/06/1961	PA	10	15	CB10
F122	06/06/1961	PA	10	15	CB00
F167	05/07/1961	PA	10	15	CB10
F169	05/07/1961	PA	10	15	CB00
F210-211	08/08/1961	PA	10	15	CB00 -10
F269	22/09/1961	PA	10	15	CB10
F277	09/10/1961	PA	10	15	CB10
F279	09/10/1961	PA	10	15	CB00
F280	10/10/1961	PA	10	15	CB10
F329	09/11/1961	PA	10	15	CB10
F331	09/11/1961	PA	10	15	CB00
F359	07/12/1961	PA	10	15	CB10
F361	07/12/1961	PA	10	15	CB00
F 4- 5	16/01/1962	PA	10	15	CB00 -10
F 36- 37	13/02/1962	PA	10	15	CB00 -10
F 64- 65	13/03/1962	PA	10	15	CB00 -10
F100-101	27/05/1962	PA	10	15	CB00 -10
F142-143	18/06/1962	PA	10	15	CB00 -10
F189-190	18/07/1962	PA	10	15	CB00 -10
F198-199	14/08/1962	PA	10	15	CB00 -10
F272-273	16/11/1962	LA	10	15	CB00 -10
F282	13/12/1962	PA	10	15	CB00
F 2- 3	15/01/1963	PA	10	15	CB00 -10
F 16- 17	18/02/1963	PA	10	15	CB00 -10
F 25- 27	15/03/1963	PA	10	15	CB00 -10

F 29- 30	08/04/1963	PA	10	15	CB00 -10
F 69- 70	21/05/1963	PA	10	15	CB00 -10
F 93- 94	23/07/1963	PA	10	15	CB00 -10
F112-113	13/08/1963	PA	10	15	CB00 -10
F135-136	27/09/1963	LA	10	15	CB00 -10
F148-151	16/10/1963	PA	10	15	CB -10
F154-158	17/10/1963	PA	10	15	CB -
F159-160	19/11/1963	PA	10	15	CB00 -10
F 14- 15	17/01/1964	PA	10	15	CB00 -10
F 26- 27	18/02/1964	PA	10	15	CB00 -10
F 35- 36	17/03/1964	PA	10	15	CB00 -10
F 60	17/04/1964	PA	10	15	CB10
F 72- 73	11/05/1964	LA	10	15	CB00 -10
F105-106	22/06/1964	PA	10	15	CB00 -00
F107-109	23/06/1964	PA	10	15	CB00 -10
F133-134	15/07/1964	LA	10	15	CB00 -10
F159-160	19/08/1964	PA	10	15	CB00 -10
F174-175	15/09/1964	PA	10	15	CB00 -10
F188-189	14/10/1964	PA	10	15	CB00 -10
F203-204	13/11/1964	LA	10	15	CB00 -10
F236-237	11/12/1964	LA	10	15	CB00 -10
N 6	13/01/1965	PA	10	15	CB00
N 27	22/01/1965	PA	10		CB318
N 42- 43	16/02/1965	PA	10	15	CB00 -10
N 64- 65	22/03/1965	PA	10	08	CB00 -10
N 81- 82	15/04/1965	PA	10	15	CB00 -10
N 88	20/04/1965	PA	10	15	CB318
N103-104	14/05/1965	PA	10	15	CB00 -10
N112	18/05/1965	PA	10		CB318
N122	11/06/1965	PA	10	15	CB00
N124	11/06/1965	PA	10	15	CB00
N134	30/06/1965	PA	10	08	CB675
N150-151	09/07/1965	PA	10	08	CB00 -10
F188	17/08/1965	PA	10	15	CB10
F189	18/08/1965	PA	10	15	CB00
N203-204	16/09/1965	LA	10	15	CB00 -10
N222-223	18/10/1965	PA	10	15	CB00 -10
N247-248	15/11/1965	LA	10	15	CB00 -10
F 45- 46	21/02/1966	LA	10	15	CB00 -10
F 63- 64	03/03/1966	PA	10		CB20 -30
F127-128	18/04/1966	LA	10	15	CB00 -10
F188-189	23/05/1966	LA	10	15	CB00 -10
F237-238	20/06/1966	LA	10	15	CB00 -10
F279-280	26/07/1966	LA	10	15	CB00 -10
F320-321	23/08/1966	LA	10	15	CB00 -10
F362-363	19/09/1966	PA	10	15	CB00 -10
F394-395	24/10/1966	LA	10	15	CB00 -10
F432	28/11/1966	LA	10	15	CB10
F456-457	16/12/1966	PA	10	15	CB00 -10
F 18- 19	13/01/1967	PA	10		CB00 -10
F 42- 43	20/02/1967	PA	10	15	CB00 -10
F 52- 53	13/03/1967	PA	10	15	CB00 -10
F 96- 97	18/04/1967	PA	10	15	CB00 -10
F120-121	16/05/1967	PA	10	15	CB00 -10

F143	20/06/1967	PA	10	15	CB00
F144	22/06/1967	PA	10	15	CB10
F154-155	17/07/1967	PA	10	07	CB00 -10
F185-186	21/08/1967	PA	10	15	CB00 -10
F209-210	13/09/1967	PA	10	15	CB00 -10
F224-225	16/10/1967	PA	10		CB00 -10
F254-255	13/11/1967	PA	10	15	CB00 -10
F274-275	13/12/1967	PA	10	15	CB00 -10
F 7	09/01/1968	PA	10	15	CB00
F 28- 29	29/02/1968	PA	10	15	CB00 -10
F 40- 41	19/03/1968	PA	10	15	CB00 -10
F 54- 55	08/04/1968	PA	10	15	CB00 -10
F 86- 87	14/05/1968	PA	10	10	CB00 -10
F105-106	21/06/1968	PA	10	15	CB00 -10
F122-123	15/07/1968	PA	10	15	CB00 -10
F154-155	14/08/1968	PA	10	15	CB00 -10
F190-191	11/09/1968	PA	10	15	CB00 -10
F211-212	14/10/1968	PA	10	15	CB00 -10
F230-231	11/11/1968	PA	10	15	CB00 -10
F262	10/12/1968	PA	10	15	CB10
F270	13/12/1968	PA	10	15	CB00
F 1- 2	06/01/1969	PA	10	15	CB00 -10
F 40	07/02/1969	PA	10	15	CB00
F 64- 65	10/03/1969	PA	10	15	CB00 -10
F 74- 75	07/04/1969	PA	10	15	CB00 -10
F114-115	12/05/1969	PA	10	15	CB00 -10
F131-132	09/06/1969	PA	10	15	CB00 -10
F149-150	07/07/1969	PA	10	15	CB00 -10
F182-183	05/08/1969	PA	10	15	CB00 -10
F199	08/09/1969	PA	10	20	CB10
F201	08/09/1969	PA	10	15	CB00
F225-226	06/10/1969	PA	10	15	CB00 -10
F258-259	05/11/1969	PA	10	15	CB00 -10
F274-275	01/12/1969	PA	10	15	CB00 -10
F 2- 3	05/01/1970	PA	10	15	CB00 -10
F 27- 28	09/02/1970	PA	10	15	CB00 -10
F 57- 58	10/03/1970	PA	10	15	CB00 -10
F 76- 77	20/04/1970	PA	10	15	CB00 -10
F100-101	11/05/1970	PA	10	15	CB00 -10
F133-134	22/06/1970	PA	10	15	CB00 -10
F143-144	06/07/1970	PA	10	15	CB00 -10
F200-201	07/08/1970	PA	10	15	CB00 -10
F223-224	14/09/1970	PA	10	15	CB00 -10
F286-287	12/10/1970	PA	10	15	CB00 -10
F315	09/11/1970	PA	10	15	CB00
F322	11/11/1970	PA	10	15	CB10
F347	07/12/1970	PA	10	15	CB10
F 2- 3	04/01/1971	PA	10	15	CB00 -10
F 53	01/02/1971	PA	10	15	CB10
F 55	03/02/1971	PA	10	15	CB00
F 98	09/03/1971	LA	10	15	CB10
F120	16/03/1971	LA	10	05	CB00
F122-123	05/04/1971	PA	10	15	CB00 -10
F171-172	10/05/1971	PA	10	15	CB00 -10

F215-216	07/06/1971	PA	10	15	CB00	-10
F244-245	12/07/1971	PA	10	15	CB00	-10
F318-319	09/08/1971	PA	10	15	CB00	-10
F392-393	13/09/1971	PA	10	15	CB00	-10
F466-467	12/10/1971	PA	10	15	CB00	-10
F540-541	10/11/1971	PA	10	15	CB00	-10
F613-614	13/12/1971	PA	10	15	CB00	-10
F 2	04/01/1972	PA	10	15	CB10	
F 3	05/01/1972	PA	10	15	CB00	
F 75- 76	01/02/1972	PA	10	15	CB00	-10
F148-149	06/03/1972	PA	10	15	CB00	-10
F221-222	03/04/1972	PA	10	15	CB00	-10
F287-288	10/05/1972	LA	10	15	CB00	-10
F335-336	12/06/1972	PA	10	15	CB00	-10
F447-448	01/08/1972	PA	10	15	CB00	-10

30" LINED TRAWL (33)

A 1- 3	04/06/1973	LA	33	10	10	CB067-294
A 5- 19	11/06/1973	PA	33	10		CB792-954
A 36	12/06/1973	PA	33	10		C1088
A 20- 35	12/06/1973	PA	33	10		CB286-622
A 37	12/06/1973	PA	33	10		CB032
A 49- 50	14/06/1973	PA	33	10		CB091-983
A 62- 71	15/06/1973	PA	33	10		CB235-579
A 83- 87	19/06/1973	PA	33	10		CB444-831
A 88- 98	20/06/1973	PA	33	10		CB003-647
A101	21/06/1973	PA	33	10		C1010
A103-104	21/06/1973	PA	33	10		C1026-047
A107	21/06/1973	PA	33	10		C1040
A 99-100	21/06/1973	PA	33	10		CB275-960
A102	21/06/1973	PA	33	10		CB716
A105-106	21/06/1973	PA	33	10		CB030-371
A108-109	21/06/1973	PA	33	10		CB303-807
A110-113	22/06/1973	PA	33	10		CB295-608
A115	28/06/1973	PA	33	03		C1079
A120-121	28/06/1973	PA	33	05		C1016-093
A114	28/06/1973	PA	33	10		CB008
A116-119	28/06/1973	PA	33	10		CB134-311
A122	28/06/1973	PA	33	10		CB441
A 58	16/01/1974	LA	33	10	25	C1053
A 59- 60	16/01/1974	LA	33	10	25	CB441-945
A 62	17/01/1974	LA	33	10	25	C1093
A 61	17/01/1974	LA	33	10	25	CB751
A 63- 71	17/01/1974	LA	33	10	25	CB372-831
A146-156	28/01/1974	LA	33	10		CB067-444
A282	20/02/1974	LA	33	10		C1088
A283-293	20/02/1974	LA	33	10		CB294-622
I718-729	16/07/1974	LA	33	07	25	CB174-351
I747-749	17/07/1974	LA	33	07	25	CB831-910
I758	18/07/1974	LA	33	05	25	C1014
I750-757	18/07/1974	LA	33	06	25	CB328-362
I759	18/07/1974	LA	33	06	25	CB125

I760-762	22/07/1974	LA	33	05	25	C1039-070
I765-767	22/07/1974	LA	33	05	25	C1011-076
I763-764	22/07/1974	LA	33	05	25	CB120-374
I768-773	22/07/1974	LA	33	05	25	CB062-305
I783	23/07/1974	LA	33	05	25	C1006
I785	23/07/1974	LA	33	05	25	C1069
I788-789	23/07/1974	LA	33	05	25	C1029-096
I774-782	23/07/1974	LA	33	05	25	CB422-915
I784	23/07/1974	LA	33	05	25	CB666
I786-787	23/07/1974	LA	33	05	25	CB569-959
I790-791	23/07/1974	LA	33	05	25	CB410-419
I793	24/07/1974	LA	33	05	25	C1034
I792	24/07/1974	LA	33	05	25	CB130
I794-808	24/07/1974	LA	33	05	25	CB135-452
I825-840	31/07/1974	LA	33		25	CB083-209
I841-842	01/08/1974	LA	33		25	C1068-088
I851	01/08/1974	LA	33		25	CB050
A276	11/02/1975	LA	33	05	25	C1073
A286	11/02/1975	LA	33	05	25	C1000
A275	11/02/1975	LA	33	05	25	CB014
A277-285	11/02/1975	LA	33		25	CB147-505
A287-288	12/02/1975	LA	33		25	C1013-081
A289-298	12/02/1975	LA	33	05	25	CB248-335
A299-302	13/02/1975	LA	33		25	CB104-730
A303-304	20/02/1975	LA	33		25	CB506-772
A310	24/02/1975	LA	33		25	C1024
A314	24/02/1975	LA	33		25	C1053
A305-309	24/02/1975	LA	33		25	CB132-688
A311-313	24/02/1975	LA	33		25	CB019-822
A317	26/02/1975	LA	33		25	C1041
A315-316	26/02/1975	LA	33		25	CB304-999
A318-319	27/02/1975	LA	33		25	C1001-008
A320-322	27/02/1975	LA	33		25	CB119-766
I501-514	08/07/1975	LA	33	05		CB018-870
I530	09/07/1975	LA	33	05		C1088
I535	09/07/1975	LA	33	05		C1072
I529	09/07/1975	LA	33	05		CB983
I531-534	09/07/1975	LA	33	05		CB032-197
I536-544	09/07/1975	LA	33	05		CB160-332
I560	10/07/1975	LA	33	05		C1081
I565	10/07/1975	LA	33	05		C1020
I559	10/07/1975	LA	33	05		CB601
I561-564	10/07/1975	LA	33	05		CB187-576
I566-567	10/07/1975	LA	33	05		CB052-239
I626	14/07/1975	LA	33	05		C1012
I628	14/07/1975	LA	33	05		C1044
I609-625	14/07/1975	LA	33	05		CB025-096
I627	14/07/1975	LA	33	05		CB637
I643-644	15/07/1975	LA	33	05		C1067-087
I658	15/07/1975	LA	33	05		C1041
I645-657	15/07/1975	LA	33	05		CB123-586
I697	16/07/1975	LA	33	05		C1100
I701	16/07/1975	LA	33	05		C1015
I703	16/07/1975	LA	33	05		C1075

I692-696	16/07/1975	LA	33	05	CB315-414
I698-700	16/07/1975	LA	33	05	CB099-698
I702	16/07/1975	LA	33	05	CB779
I704	16/07/1975	LA	33	05	CB259
I705	17/07/1975	LA	33	05	CB993
I779	22/07/1975	PA	33	05	CB167
I306	17/02/1976	LA	33	25	C1056
I308	17/02/1976	LA	33	25	C1097
I301-305	17/02/1976	LA	33	25	CB358-880
I307	17/02/1976	LA	33	25	CB082
I309	18/02/1976	LA	33	25	C1089
I315-316	18/02/1976	LA	33	25	C1028-033
I310-314	18/02/1976	LA	33	25	CB453-907
I322	19/02/1976	LA	33	25	C1006
I317-321	19/02/1976	LA	33	25	CB475-583
I323-324	19/02/1976	LA	33	25	CB103-204
I325-328	23/02/1976	LA	33	25	CB474-694
I330	24/02/1976	LA	33	25	C1020
I333-334	24/02/1976	LA	33	25	C1000-080
I329	24/02/1976	LA	33	25	CB959
I331-332	24/02/1976	LA	33	25	CB097-303
I335-338	24/02/1976	LA	33	25	CB151-530
I339	25/02/1976	LA	33	25	C1068
I341	25/02/1976	LA	33	25	C1073
I340	25/02/1976	LA	33	25	CB983
I342-348	25/02/1976	LA	33	25	CB091-406
I385-386	06/07/1976	LA	33	05	C1073-088
I372-384	06/07/1976	LA	33	05	CB026-158
I387	06/07/1976	LA	33	05	CB983
I422	07/07/1976	LA	33	05	C1080
I426	07/07/1976	LA	33	05	C1013
I413-421	07/07/1976	LA	33	05	CB167-784
I423-425	07/07/1976	LA	33	05	CB046-699
I427-428	07/07/1976	LA	33	05	CB055-558
I462	08/07/1976	LA	33	05	C1069
I460-461	08/07/1976	LA	33	05	CB141-187
I463-468	08/07/1976	LA	33	05	CB075-876
I505	12/07/1976	LA	33	05	C1014
I486-504	12/07/1976	LA	33	05	CB054-460
I546	13/07/1976	LA	33	05	C1051
I551-552	13/07/1976	LA	33	05	C1003-056
I547-550	13/07/1976	LA	33	05	CB656-800
I586	14/07/1976	LA	33	05	C1015
I576-585	14/07/1976	LA	33	05	CB093-989
I587-590	14/07/1976	LA	33	05	CB439-984
I738-751	21/07/1976	LA	33	05	CB024-159
I791-794	22/07/1976	LA	33	05	CB196-685
I197	05/07/1977	LA	33	05	C1068
I183-196	05/07/1977	LA	33	05	CB124-159
I209	06/07/1977	LA	33	05	C1072
I208	06/07/1977	LA	33	05	CB902
I210-228	06/07/1977	LA	33	05	CB097-857
I257-265	07/07/1977	LA	33	05	CB130-494
I306	11/07/1977	LA	33	05	C1046

I300-305	11/07/1977	LA	33	05		CB037-373
I307-308	11/07/1977	LA	33	05		CB027-449
I314	12/07/1977	LA	33	05		C1023
I316	12/07/1977	LA	33	05		C1039
I315	12/07/1977	LA	33	05		CB461
I317-329	12/07/1977	LA	33	05		CB156-563
I363	13/07/1977	LA	33	05		C1019
I371	13/07/1977	LA	33	05		C1006
I364-370	13/07/1977	LA	33	05		CB131-255
I372	13/07/1977	LA	33	05		CB439
I250-251	21/02/1978	LA	33		25	CB026-734
I261	23/02/1978	LA	33		25	C1072
I252-260	23/02/1978	LA	33		25	CB288-967
I273-274	27/02/1978	LA	33		25	C1003-056
I276	27/02/1978	LA	33		25	C1097
I262-272	27/02/1978	LA	33		25	CB283-971
I275	27/02/1978	LA	33		25	CB197
I309-314	01/03/1978	LA	33		25	CB453-986
I315-321	02/03/1978	LA	33		25	CB383-979
I326	03/03/1978	LA	33		25	C1000
I322-325	03/03/1978	LA	33		25	CB997-998
I363	13/03/1978	LA	33		25	C1073
I365	13/03/1978	LA	33		25	C1068
I362	13/03/1978	LA	33		25	CB158
I364	13/03/1978	LA	33		25	CB167
I453	05/07/1978	LA	33		25	C1020
I458-464	05/07/1978	JS	33	05		C1036-230
I442-452	05/07/1978	LA	33		25	CB765-884
I454-457	05/07/1978	LA	33		25	CB187-576
I468-469	06/07/1978	LA	33		25	C1013-029
I472-474	06/07/1978	LA	33		25	C1000-077
I465-467	06/07/1978	LA	33		25	CB039-141
I470-471	06/07/1978	LA	33		25	CB639-690
I475-487	06/07/1978	LA	33	05		CB280-492
I502-503	07/07/1978	LA	33		25	C1073-088
I501	07/07/1978	LA	33		25	CB983
I504-517	07/07/1978	LA	33		25	CB083-244
I543-547	10/07/1978	LA	33		25	C1093-253
I528-542	10/07/1978	LA	33		25	CB029-217
I548	10/07/1978	LA	33		25	CB156
I562	11/07/1978	LA	33		25	C1067
I569	11/07/1978	LA	33		25	C1001
I561	11/07/1978	LA	33		25	CB077
I563-568	11/07/1978	LA	33		25	CB045-829
I570-575	11/07/1978	LA	33		25	CB084-379
I583	12/07/1978	LA	33		25	C1004
I578-582	12/07/1978	LA	33		25	CB642-895
I584-585	12/07/1978	LA	33		25	CB439-523
I839-847	29/08/1978	JS	33	05		C1040-096
I848	29/08/1978	JS	33	05		CB998
I849-850	30/08/1978	JS	33	05		C1002-075
I852	30/08/1978	JS	33	05		C1010
I402-410	07/03/1979	LA	33		25	CB075-983
I423-424	08/03/1979	LA	33		25	C1034-036

I428	08/03/1979	LA	33		25	C1029
I417-422	08/03/1979	LA	33	05		CB253-711
I425-427	08/03/1979	LA	33		25	CB187-708
I429	08/03/1979	LA	33		25	CB899
I452-455	19/03/1979	LA	33		25	CB224-904
I462	20/03/1979	LA	33		25	C1016
I464-465	20/03/1979	LA	33		25	C1053-101
I456-461	20/03/1979	LA	33		25	CB051-660
I463	20/03/1979	LA	33		25	CB460
I466-467	20/03/1979	LA	33		25	CB021-800
I475	21/03/1979	LA	33		25	C1021
I468-474	21/03/1979	LA	33		25	CB047-738
I476-477	21/03/1979	LA	33		25	CB439-450
I793-794	10/12/1979	JS	33	05		CB843-902
I 55	20/02/1980	PA	33	05		CB843
I 77- 78	05/03/1980	PA	33	05		CB746-765
I 94- 95	10/03/1980	PA	33	05		CB587-888
I123-125	07/04/1980	JS	33	05		CB832-865

30° LINED TRAWL, WITH TICKLER CHAIN
30° BRIDLE (68)

I691	10/02/1979	PA	68	05		CB902
I686-687	03/08/1979	PA	68	05		CB794-902
I688-689	09/08/1979	PA	68	05		C1253-253
I692	02/10/1979	PA	68	05		CB889
I822	28/11/1979	JS	68	05		C1100

30° LINED TRAWL, WITH TICKLER CHAIN
60° BRIDLE (70)

I172-173	06/05/1980	JS	70	05		C1250-255
I174-181	07/05/1980	JS	70	05		C1045-204
I184-185	07/05/1980	JS	70	05		C1034-038
I182-183	07/05/1980	JS	70	05		CB134-134
I186-187	07/05/1980	JS	70	05		CB587-888
I211-212	03/06/1980	JS	70	05		C1253-255
I213-222	04/06/1980	JS	70	05		CB03-CP5
I224-227	05/06/1980	JS	70	05		CB03-CC1
I299	02/07/1980	PA	70	05		C1065
I287-298	09/07/1980	JS	70	05		CB02-CP2
I300-301	15/07/1980	PA	70	05		CB587-902
I323-324	06/08/1980	JS	70	05		CB03-CP2
I335-338	07/08/1980	JS	70	05		CB03-CC1
I325-334	07/08/1980	PA	70	05		CP004-005
I362-363	03/09/1980	JS	70	05		CB03-CP2
I364-377	04/09/1980	JS	70	05		CB02-CP4
I420-432	02/10/1980	JS	70	05		CB03-CP2
I459	07/10/1980	JS	70	05		CB02
I458	09/10/1980	JS	70	05		CB03
I460	09/10/1980	JS	70	05		CB02
I471-482	06/11/1980	JS	70	05		CB04-CP4

I496-499	17/11/1980	JS	70	05	CBC03-CC1
I513-516	01/12/1980	PA	70	05	CB831-865
I549-553	08/12/1980	PA	70	05	CB604-851
I 75- 76	23/02/1981	JS	70	05	CB486-549
I158-159	04/05/1981	JA	70	05	CS001-002
I171	05/05/1981	JA	70	50	C1080
I170	05/05/1981	JA	70	05	CL998
I172-173	05/05/1981	JA	70	05	CL -C03
I160-164	05/05/1981	JA	70	05	CP001-004
I166-169	05/05/1981	JA	70	05	CP002-005
I234-235	11/06/1981	03	70	05	CLCS1-CS2
I237-245	11/06/1981	03	70	05	CLCP4-CP5
I272-285	07/07/1981	03	70	05	CLC02-CP5
I165	05/08/1981	JA	70	05	CP001
I348-349	17/09/1981	03	70	05	CLC02-C03
I390	09/10/1981	03	70	05	CLC02
I391-392	26/10/1981	03	70	05	CLC03-C03
I443	17/11/1981	03	70	02	CLC03
I477-478	21/12/1981	JS	70	05	CLC02-C03
I477	21/12/1981	JS	70	05	CLC03
I 94	04/03/1982	JS	70	05	C1073
I 95-103	04/03/1982	JS	70	05	CB765-888
I138-140	12/03/1982	JS	70	05	C1067-253
I135-137	12/03/1982	JS	70	05	CB867-972
I226-227	19/04/1982	JS	70	05	CL002-003
I210	03/05/1982	03	70	05	C1004
I213-217	03/05/1982	03	70	05	C1000-002
I208-209	03/05/1982	03	70	05	CB895-981
I211-212	03/05/1982	03	70	05	CB523-886
I218-222	04/05/1982	03	70	05	CB492-549
I255-256	12/05/1982	03	70	05	CL002-003
I295-296	09/06/1982	03	70	05	CL002-003
I335-336	14/07/1982	03	70	05	CL002-003
I449	16/09/1982	03	70	05	CB108
I447-448	16/09/1982	03	70	05	CLC02-C03
I554	17/11/1982	03	70	05	CLC02
I236	11/06/1984	03	70	05	CLCP5

YORK RIVER STATIONS MADE WITH
 -VARIOUS 30" SEMIBALLOON TRAWLS

-UNLINED 30" SEMI-BALLOON TRAWL (10)

F 2- 4	14/02/1955	VL	10	15	YK00	-10
F 29	10/03/1955	VL	10	30	YK25	
F 41	19/04/1955	VL	10	15	YK00	
F 42- 43	20/04/1955	VL	10	15	YK10	-25
F 74	30/05/1955	VL	10	15	YK15	
F 90- 92	06/06/1955	VL	10	15	YK00	-25
F126	27/06/1955	VL	10	30	YK00	
F137	06/07/1955	VL	10	08	YK00	
F141-142	07/07/1955	VL	10	08	YK10	-10
F144	07/07/1955	VL	10	08	YK15	
F146	07/07/1955	VL	10	08	YK20	
F148	08/07/1955	VL	10	08	YK25	
F151	08/07/1955	VL	10	08	YP30	
F153	08/07/1955	VL	10	08	YP35	
F156	08/07/1955	VL	10	08	YP40	
F158	08/07/1955	VL	10	08	YP45	
F168	18/07/1955	VL	10	08	YK10	
F220-221	06/09/1955	VL	10	15	YK00	-10
F222	07/09/1955	VL	10	15	YK25	
F 14- 19	17/04/1956	VL	10	15	YK00	-25
F 21- 25	18/04/1956	VL	10	08	YP30	-50
F 39	08/05/1956	VL	10	15	YK05	
F 71- 73	29/05/1956	VL	10	15	YK00	-10
F 74- 76	30/05/1956	VL	10	15	YK15	-25
F 77	30/05/1956	VL	10	15	YP30	
F 78	31/05/1956	VL	10	15	YP50	
F 80- 82	31/05/1956	VL	10	15	YP35	-45
F 86	17/07/1956	VL	10	15	YK05	
F 96- 98	24/07/1956	VL	10	15	YK00	-10
F 99-101	25/07/1956	VL	10	15	YK15	-25
F102	25/07/1956	VL	10	15	YP30	
F103-106	26/07/1956	VL	10	15	YP35	-50
F130	14/08/1956	VL	10	15	YK05	
F145-147	21/08/1956	VL	10	15	YK00	-10
F148-150	22/08/1956	VL	10	15	YK15	-25
F151	22/08/1956	VL	10	15	YP30	
F153-156	23/08/1956	VL	10	15	YP35	-50
F169	04/09/1956	VL	10	15	YK05	
F179-181	10/09/1956	VL	10	15	YK00	-10
F182-184	11/09/1956	VL	10	15	YK15	-25
F185	11/09/1956	VL	10	15	YP30	
F186-189	12/09/1956	VL	10	15	YP35	-50
F214-216	16/10/1956	VL	10	15	YK00	-10
F217-220	18/10/1956	VL	10	15	YP35	-50
F222-224	19/10/1956	VL	10	15	YK15	-25
F221	19/10/1956	VL	10	15	YP30	
F226-228	12/11/1956	VL	10	15	YK00	-10

F233-235	15/11/1956	VL	10	15	YK15	-25
F236	15/11/1956	VL	10	15	YP30	
F237-240	16/11/1956	VL	10	15	YP35	-50
F247-249	11/12/1956	VL	10	15	YK00	-10
F250-252	12/12/1956	VL	10	15	YK15	-25
F253	12/12/1956	VL	10	15	YP30	
F257	13/12/1956	VL	10	08	YP35	
F 2- 4	14/01/1957	VL	10	15	YK00	-10
F 11- 13	17/01/1957	VL	10	15	YK15	-25
F 14	17/01/1957	VL	10	15	YP30	
F 19- 21	12/02/1957	VL	10	15	YK00	-10
F 22- 24	13/02/1957	VL	10	15	YK15	-25
F 25	13/02/1957	VL	10	15	YP30	
F 26- 29	14/02/1957	VL	10	08	YP35	-50
F 33- 35	12/03/1957	VL	10	15	YK00	-10
F 40- 42	14/03/1957	VL	10	15	YK15	-25
F 43	14/03/1957	VL	10	08	YP30	
F 44- 47	15/03/1957	VL	10	08	YP35	-50
F 53- 55	13/05/1957	VL	10	15	YK15	-25
F 56	13/05/1957	VL	10	08	YP30	
F 57- 60	14/05/1957	VL	10	08	YP35	-50
F 62- 64	15/05/1957	VL	10	15	YK00	-10
F 84- 86	26/08/1957	PA	10	15	YK00	-10
F 87- 89	27/08/1957	PA	10	15	YK15	-25
F 90	27/08/1957	PA	10	08	YP30	
F 91- 94	28/08/1957	PA	10	08	YP35	-50
F141-143	25/09/1957	PA	10	15	YK00	-10
F144-146	26/09/1957	PA	10	15	YK15	-25
F147	26/09/1957	PA	10	08	YP30	
F148-151	27/09/1957	PA	10	08	YP35	-50
F163-165	15/10/1957	PA	10	15	YK15	-25
F158-162	15/10/1957	PA	10	08	YP30	-50
F167-169	16/10/1957	PA	10	15	YK00	-10
F181-183	19/11/1957	PA	10	15	YK00	-10
F189-191	20/11/1957	PA	10	15	YK15	-25
F184-188	20/11/1957	PA	10	08	YP30	-35
F196	11/12/1957	PA	10	15	YK05	
F198-199	11/12/1957	PA	10	15	YK00	-10
F200-202	12/12/1957	PA	10	15	YK15	-25
F203	12/12/1957	PA	10	08	YP30	
F207	13/12/1957	PA	10	08	YP35	
F 24- 26	14/01/1958	PA	10	15	YK00	-10
F 31- 33	16/01/1958	PA	10	15	YK15	-25
F 34	16/01/1958	PA	10	08	YP30	
F 35- 38	17/01/1958	PA	10	08	YP35	-50
F 39- 41	10/02/1958	PA	10	15	YK15	-25
F 42	10/02/1958	PA	10	08	YP30	
F 43- 46	11/02/1958	PA	10	08	YP35	-50
F 51- 53	13/02/1958	PA	10	15	YK00	-10
F 62- 64	11/03/1958	PA	10	15	YK00	-10
F 69- 71	13/03/1958	PA	10	15	YK15	-25
F 72- 76	14/03/1958	PA	10	08	YP30	-50
F105-107	16/04/1958	PA	10	15	YK15	-25
F108	16/04/1958	PA	10	08	YP30	

F109-112	17/04/1958	PA	10	08	YP35	-50
F113-115	18/04/1958	PA	10	15	YK00	-10
F148-149	19/05/1958	PA	10	15	YK00	-05
F155-158	20/05/1958	PA	10	15	YK10	-25
F150-154	20/05/1958	PA	10	08	YP30	-50
F161	21/05/1958	PA	10	15	YK00	
F164	22/05/1958	PA	10	15	YK20	
F165	23/05/1958	PA	10	15	YK25	
F175-177	18/06/1958	PA	10	15	YK00	-10
F178-180	19/06/1958	PA	10	15	YK15	-25
F181	19/06/1958	PA	10	08	YP30	
F182-185	20/06/1958	PA	10	08	YP35	-50
F285	16/07/1958	PA	10	08	YP40	
F199-200	17/07/1958	PA	10	15	YK00	-05
F206-209	18/07/1958	PA	10	15	YK10	-25
F201-205	18/07/1958	PA	10	08	YP30	-50
F235	04/08/1958	PA	10	15	YK15	
F267-270	12/08/1958	PA	10	15	YK10	-25
F262-266	12/08/1958	PA	10	08	YP30	-50
F271-272	13/08/1958	PA	10	15	YK00	-05
F280-282	24/09/1958	PA	10	15	YK15	-25
F283	24/09/1958	PA	10	08	YP30	
F289-290	25/09/1958	PA	10	15	YK05	-10
F284	25/09/1958	PA	10	08	YP50	
F286-288	25/09/1958	PA	10	08	YP35	-45
F291	26/09/1958	PA	10	15	YK00	
F302	14/10/1958	PA	10	15	YK00	
F303-304	15/10/1958	PA	10	15	YK05	-10
F310-312	16/10/1958	PA	10	15	YK15	-25
F305-309	16/10/1958	PA	10	08	YP30	-50
F319-320	11/11/1958	PA	10	15	YK00	-05
F326-329	12/11/1958	PA	10	15	YK10	-25
F321-325	12/11/1958	PA	10	08	YP30	-50
F335-337	16/12/1958	PA	10	15	YK00	-10
F345	17/12/1958	PA	10	15	YK15	
F338-342	17/12/1958	PA	10	08	YP30	-50
F143-144	08/04/1959	PA	10	15	YK05	-10
F145-147	09/04/1959	PA	10	15	YK15	-25
F148-152	09/04/1959	PA	10	15	YP30	-50
F212	18/05/1959	PA	10	15	YK10	
F217	19/05/1959	PA	10	15	YK05	
F224	28/05/1959	PA	10	15	YK20	
F227-228	22/06/1959	PA	10	15	YK00	-05
F241-244	23/06/1959	PA	10	15	YK10	-25
F245-248	23/06/1959	PA	10	08	YP30	-45
F249	24/06/1959	PA	10	08	YP50	
F263-265	07/07/1959	PA	10	15	YK15	-25
F272-273	15/07/1959	PA	10	15	YK00	-05
F279	16/07/1959	PA	10	15	YK10	
F281-282	16/07/1959	PA	10	15	YK20	-25
F288	16/07/1959	PA	10	15	YK15	
F283-287	16/07/1959	PA	10	08	YP30	-50
F289	17/07/1959	PA	10	15	YK25	
F313-318	12/08/1959	PA	10	15	YK00	-25

F319	12/08/1959	PA	10	08	YP30
F320-323	13/08/1959	PA	10	08	YP35 -50
F324	09/09/1959	PA	10	15	YK00
F330-334	10/09/1959	PA	10	15	YK05 -25
F335-337	10/09/1959	PA	10	08	YP30 -40
F338-339	11/09/1959	PA	10	08	YP45 -50
F341	13/10/1959	PA	10	15	YK00
F347-351	14/10/1959	PA	10	15	YK05 -25
F352	14/10/1959	PA	10	08	YP30
F353-356	15/10/1959	PA	10	08	YP35 -50
F428	23/11/1959	PA	10	08	YK00
F435-438	24/11/1959	PA	10	15	YK10 -25
F439	24/11/1959	PA	10	08	YP30
F444	25/11/1959	PA	10	15	YK05
F440-443	25/11/1959	PA	10	08	YP35 -50
F177	10/05/1960	PA	10	15	YK00
F191	11/05/1960	PA	10	15	YK25
F193	11/05/1960	PA	10	15	YK20
F195	11/05/1960	PA	10	15	YK15
F197	11/05/1960	PA	10	15	YK10
F199	11/05/1960	PA	10	15	YK05
F183-185	11/05/1960	PA	10	08	YP40 -50
F187	11/05/1960	PA	10	08	YP35
F189	11/05/1960	PA	10	08	YP30
F264-268	28/06/1960	PA	10	15	YK05 -25
F269-272	28/06/1960	PA	10	10	YP30 -45
F278	30/06/1960	PA	10	15	YK00
F279-280	13/07/1960	PA	10	15	YK00 -05
F286-289	14/07/1960	PA	10	15	YK10 -25
F290-292	14/07/1960	PA	10	08	YP30 -40
F320	08/08/1960	PA	10	15	YK00
F326-329	09/08/1960	PA	10	15	YK10 -25
F349	21/08/1960	PA	10	08	YP40
F 1- 4	03/01/1961	PA	10	15	YK10 -25
F 5	03/01/1961	PA	10	08	YP40
F 6	04/01/1961	PA	10	08	YP35
F 8	03/03/1961	PA	10	15	YK10
F 33- 35	22/03/1961	PA	10	15	YP30 -50
F 36- 37	23/03/1961	PA	10	15	YK10 -20
F 38- 40	24/03/1961	PA	10	15	YK00 -00
F 68- 71	26/04/1961	PA	10	15	YK10 -25
F 77	09/05/1961	PA	10	15	YK00
F 83	10/05/1961	PA	10	15	YK10
F 85	10/05/1961	PA	10	15	YK20
F113	11/05/1961	PA	10	08	YK10
F 88	11/05/1961	PA	10	08	YP50
F 90	11/05/1961	PA	10	08	YP40
F 92	11/05/1961	PA	10	08	YP30
F118	06/06/1961	PA	10	15	YK00
F124	07/06/1961	PA	10	15	YK10
F127	08/06/1961	PA	10	15	YK20
F128	08/06/1961	PA	10	08	YP30
F137-140	09/06/1961	PA	10	15	YK10 -25
F132	09/06/1961	PA	10	08	YP50

F136	09/06/1961	PA	10	08	YP40
F165	05/07/1961	PA	10	15	YK00
F172	06/07/1961	PA	10	15	YK10
F174	06/07/1961	PA	10	15	YK20
F179	06/07/1961	PA	10	08	YP30
F184	06/07/1961	PA	10	08	YP40
F186	07/07/1961	PA	10	08	YP50
F209	08/08/1961	PA	10	15	YK00
F213-214	09/08/1961	PA	10	15	YK10 -20
F215-216	09/08/1961	PA	10	08	YP30 -40
F217	10/08/1961	PA	10	08	YP50
F259-262	21/09/1961	PA	10	15	YK10 -20
F264	21/09/1961	PA	10	15	YK25
F263	21/09/1961	PA	10	08	YP30
F265	21/09/1961	PA	10	08	YP40
F268	22/09/1961	PA	10	15	YK00
F267	22/09/1961	PA	10	08	YP50
F275	09/10/1961	PA	10	15	YK00
F282	10/10/1961	PA	10	15	YK10
F284	10/10/1961	PA	10	15	YK20
F286	10/10/1961	PA	10	08	YP30
F288	11/10/1961	PA	10	08	YP40
F290	11/10/1961	PA	10	08	YP50
F315	07/11/1961	PA	10	15	YK10
F317	07/11/1961	PA	10	15	YK20
F319	07/11/1961	PA	10	08	YP30
F321	07/11/1961	PA	10	08	YP40
F323	07/11/1961	PA	10	08	YP50
F327	09/11/1961	PA	10	15	YK00
F347	05/12/1961	PA	10	15	YK10
F349	05/12/1961	PA	10	15	YK20
F351	05/12/1961	PA	10	08	YP30
F353	06/12/1961	PA	10	08	YP40
F355	06/12/1961	PA	10	08	YP50
F357	07/12/1961	PA	10	15	YK00
F 2	16/01/1962	PA	10	15	YK00
F 7	17/01/1962	PA	10	15	YK10
F 9	17/01/1962	PA	10	15	YK20
F 11	17/01/1962	PA	10	08	YP30
F 13	17/01/1962	PA	10	08	YP40
F 16	18/01/1962	PA	10	08	YP50
F 35	13/02/1962	PA	10	15	YK00
F 38- 39	14/02/1962	PA	10	15	YK10 -20
F 40- 41	14/02/1962	PA	10	08	YP30 -40
F 42	15/02/1962	PA	10	08	YP50
F 63	13/03/1962	PA	10	15	YK00
F 67	14/03/1962	PA	10	15	YK20
F 68- 70	14/03/1962	PA	10	08	YP30 -50
F 66	17/03/1962	PA	10	15	YK10
F 90- 91	17/04/1962	PA	10	15	YK10 -20
F 92- 94	17/04/1962	PA	10	08	YP30 -50
F 99	28/05/1962	PA	10	15	YK00
F108-109	29/05/1962	PA	10	15	YK10 -20
F110-112	29/05/1962	PA	10	08	YP30 -50

F141	18/06/1962	PA	10	15	YK00
F145-146	19/06/1962	PA	10	15	YK10 -20
F147-148	19/06/1962	PA	10	08	YP30 -40
F149	20/06/1962	PA	10	08	YP50
F188	18/07/1962	PA	10	15	YK00
F191-192	19/07/1962	PA	10	15	YK10 -20
F193-195	19/07/1962	PA	10	08	YP30 -50
F200	14/08/1962	PA	10	15	YK00
F201	15/08/1962	PA	10	15	YK20
F202-204	15/08/1962	PA	10	08	YP30 -50
F205	16/08/1962	PA	10	15	YK10
F221-222	18/09/1962	PA	10	15	YK10 -20
F223	18/09/1962	PA	10	08	YP30
F258-259	23/10/1962	LA	10	15	YK10 -20
F260	24/10/1962	LA	10	15	YK00
F261-262	14/11/1962	LA	10	15	YK10 -20
F263-264	14/11/1962	LA	10	08	YP30 -40
F274	16/11/1962	LA	10	15	YK00
F275-276	11/12/1962	PA	10	15	YK10 -20
F278	11/12/1962	PA	10	08	YP40
F279	12/12/1962	PA	10	08	YP50
F280	13/12/1962	PA	10	15	YK00
F 1	15/01/1963	PA	10	15	YK00
F 5- 6	16/01/1963	PA	10	15	YK10 -20
F 8	16/01/1963	PA	10	08	YP30
F 9- 11	13/02/1963	PA	10	08	YP30 -50
F 12- 14	14/02/1963	PA	10	15	YK10 -25
F 18- 20	13/03/1963	PA	10	15	YK10 -25
F 21- 23	13/03/1963	PA	10	08	YP30 -50
F 24	15/03/1963	PA	10	15	YK00
F 28	08/04/1963	PA	10	15	YK00
F 31- 33	09/04/1963	PA	10	15	YK10 -25
F 34- 36	09/04/1963	PA	10	08	YP30 -50
F 71- 73	22/05/1963	PA	10	15	YK10 -25
F 74- 75	22/05/1963	PA	10	08	YP30 -40
F 76	23/05/1963	PA	10	08	YP50
F 78- 81	17/06/1963	LA	10	15	YK00 -25
F 82- 84	17/06/1963	LA	10	08	YP30 -50
F 95	23/07/1963	PA	10	15	YK00
F 96- 98	24/07/1963	PA	10	15	YK10 -25
F 99-101	24/07/1963	PA	10	08	YP30 -50
F114	13/08/1963	PA	10	15	YK00
F115-117	14/08/1963	PA	10	15	YK10 -25
F118-120	14/08/1963	PA	10	08	YP30 -50
F121-123	16/09/1963	LA	10	15	YK10 -25
F124-125	16/09/1963	LA	10	08	YP30 -40
F126	17/09/1963	LA	10	08	YP50
F134	27/09/1963	LA	10	15	YK00
F144-146	15/10/1963	PA	10	15	YK10 -25
F141-143	15/10/1963	PA	10	08	YP30 -50
F147	16/10/1963	PA	10	15	YK00
F161	19/11/1963	PA	10	15	YK00
F162-164	20/11/1963	PA	10	15	YK10 -25
F165-166	20/11/1963	PA	10	08	YP30 -40

F167	21/11/1963	PA	10	08	YP50
F174-176	19/12/1963	LA	10	08	YP30 -50
F177-179	20/12/1963	LA	10	15	YK10 -25
F180	30/12/1963	LA	10	15	YK00
F 8- 10	14/01/1964	PA	10	15	YK10 -25
F 11	14/01/1964	PA	10	08	YP30
F 12- 13	15/01/1964	PA	10	08	YP40 -45
F 16	17/01/1964	PA	10	15	YK00
F 17- 21	31/01/1964	PA	10	15	YK10 -25
F 22	31/01/1964	PA	10	08	YP30
F 28	18/02/1964	PA	10	15	YK00
F 29- 31	19/02/1964	PA	10	15	YK10 -25
F 32- 34	19/02/1964	PA	10	08	YP30 -50
F 37	17/03/1964	PA	10	15	YK00
F 38- 40	18/03/1964	PA	10	15	YK10 -25
F 41- 43	18/03/1964	PA	10	08	YP30 -50
F 51- 54	15/04/1964	PA	10	08	YP30 -50
F 55- 57	16/04/1964	PA	10	15	YK10 -25
F 61	17/04/1964	PA	10	15	YK00
F 71	11/05/1964	LA	10	15	YK00
F 84- 86	13/05/1964	LA	10	08	YP30 -50
F 87- 89	14/05/1964	LA	10	15	YK10 -25
F110	23/06/1964	PA	10	15	YK00
F111-113	24/06/1964	PA	10	15	YK10 -25
F114-115	24/06/1964	PA	10	08	YP30 -40
F117	25/06/1964	PA	10	05	YP50
F135	15/07/1964	LA	10	15	YK00
F136-138	16/07/1964	LA	10	15	YK10 -25
F139-141	16/07/1964	LA	10	08	YP30 -50
F161	19/08/1964	PA	10	15	YK00
F162-164	20/08/1964	PA	10	15	YK10 -25
F165-167	20/08/1964	PA	10	08	YP30 -50
F176	15/09/1964	PA	10	15	YK00
F177-179	16/09/1964	PA	10	15	YK10 -25
F180-182	16/09/1964	PA	10	08	YP30 -50
F190	14/10/1964	PA	10	15	YK00
F191-193	15/10/1964	PA	10	15	YK10 -25
F194-195	15/10/1964	PA	10	08	YP40 -50
F196	16/10/1964	PA	10	08	YP30
F202	13/11/1964	LA	10	15	YK00
F209-211	19/11/1964	LA	10	15	YK10 -25
F212-214	19/11/1964	LA	10	08	YP30 -40
F228-233	20/11/1964	LA	10		YK10 -20
F235	11/12/1964	LA	10	15	YK00
F242-244	17/12/1964	LA	10	15	YK10 -25
F247	17/12/1964	LA	10	08	YP50
N 8	13/01/1965	PA	10	15	YK00
N 9- 11	14/01/1965	PA	10	15	YK10 -25
N 12- 14	15/01/1965	PA	10	08	YP30 -50
N 29- 31	11/02/1965	LA	10	15	YK10 -25
N 32- 34	11/02/1965	LA	10	08	YP30 -50
N 41	16/02/1965	LA	10	15	YK00
N 57- 59	18/03/1965	PA	10	09	YK10 -25
N 60- 61	18/03/1965	PA	10	08	YP30 -40

N 62	19/03/1965	PA	10	08	YP50
N 66	22/03/1965	PA	10	15	YK00
N 83	15/04/1965	PA	10	15	YK00
N 84- 87	20/04/1965	PA	10	15	YK10 -25
N 89- 91	21/04/1965	PA	10	08	YP30 -50
N 92- 93	22/04/1965	PA	10	08	YM37 -55
N105	14/05/1965	PA	10	15	YK00
N106-108	18/05/1965	PA	10	15	YK10 -25
N109-111	18/05/1965	PA	10	08	YP30 -50
N125	11/06/1965	PA	10	15	YK00
N126-128	14/06/1965	PA	10	15	YK10 -25
N129-131	14/06/1965	PA	10	08	YP30 -50
N152	09/07/1965	PA	10	15	YK00
N153-155	12/07/1965	PA	10	06	YK10 -25
N156-158	12/07/1965	PA	10	08	YP30 -50
N180-183	10/08/1965	LA	10	15	YK10 -25
N184-186	10/08/1965	LA	10	08	YP30 -50
F187	17/08/1965	PA	10		YK00
N207-210	16/09/1965	LA	10	15	YK10 -25
N211-214	16/09/1965	LA	10	15	YP30 -50
N221	18/10/1965	LA	10	15	YK00
N230-233	19/10/1965	LA	10	15	YK10 -25
N234-235	19/10/1965	LA	10	08	YP30 -35
N239-240	20/10/1965	LA	10	08	YP40 -50
N246	15/11/1965	LA	10	15	YP00
N255-258	29/11/1965	LA	10	15	YK10 -25
N259	29/11/1965	LA	10	08	YP30
N264-266	01/12/1965	LA	10	08	YP35 -50
N281	20/12/1965	PA	10	15	YK00
N282-285	22/12/1965	PA	10	15	YK10 -25
N289	22/12/1965	PA	10	08	YP50
F 8- 11	25/01/1966	PA	10	08	YP30 -50
F 12- 14	28/01/1966	PA	10	15	YK10 -25
F 23- 25	11/02/1966	LA	10	15	YK10 -25
F 22	11/02/1966	LA	10	15	YP30
F 26- 28	15/02/1966	LA	10	15	YK10 -25
F 29- 32	15/02/1966	LA	10	08	YP30 -50
F 44	21/02/1966	LA	10	15	YK00
F 72- 74	16/03/1966	LA	10	15	YK10 -25
F 75- 78	16/03/1966	LA	10	08	YP30 -50
F 86	21/03/1966	LA	10	15	YK00
F106-108	13/04/1966	LA	10	15	YK10 -25
F109-112	13/04/1966	LA	10	08	YP30 -50
F126	18/04/1966	PA	10	15	YK00
F162-164	16/05/1966	LA	10	15	YK10 -25
F165-168	16/05/1966	LA	10	08	YP30 -50
F187	23/05/1966	LA	10	15	YK00
F215-218	15/06/1966	LA	10	15	YK10 -25
F219-222	15/06/1966	LA	10	08	YP30 -50
F223-224	16/06/1966	LA	10	08	YP -
F236	20/06/1966	LA	10	15	YK00
F258-261	20/07/1966	LA	10	15	YK10 -25
F262-265	20/07/1966	LA	10	08	YP30 -50
F278	26/07/1966	LA	10	15	YK00

F299-302	17/08/1966	LA	10	15	YK10	-25
F303-306	17/08/1966	LA	10	08	YP30	-50
F308-310	18/08/1966	LA	10	08	YP35	-50
F315	19/08/1966	LA	10	15	YK25	
F314	19/08/1966	LA	10	08	YP30	
F319	23/08/1966	LA	10	15	YK00	
F340-343	15/09/1966	LA	10	15	YK10	-25
F344-347	15/09/1966	LA	10	08	YP30	-50
F348	16/09/1966	LA	10	08	YP50	
F355	17/09/1966	LA	10	08	YP35	
F361	19/09/1966	LA	10	15	YK00	
F375-378	17/10/1966	LA	10	15	YK10	-25
F379-380	17/10/1966	LA	10	08	YP30	-35
F383-385	18/10/1966	LA	10	08	YP35	-50
F393	24/10/1966	LA	10	15	YK00	
F412-415	21/11/1966	LA	10	15	YK10	-25
F416-419	21/11/1966	LA	10	08	YP30	-50
F459-462	13/12/1966	LA	10	15	YK10	-25
F463-466	13/12/1966	LA	10	08	YP30	-50
F458	16/12/1966	PA	10	15	YK00	
F 10- 13	11/01/1967	PA	10	15	YK10	-25
F 14- 17	11/01/1967	PA	10	08	YP30	-50
F 27- 29	13/02/1967	PA	10	08	YP35	-50
F 31- 34	14/02/1967	PA	10	15	YK10	-25
F 30	14/02/1967	PA	10	08	YP30	
F 41	20/02/1967	PA	10	15	YK00	
F 51	13/03/1967	PA	10	15	YK00	
F 64- 67	16/03/1967	PA	10	15	YK10	-25
F 60- 63	16/03/1967	PA	10	08	YP30	-50
F 82- 85	10/04/1967	PA	10	15	YK10	-25
F 86- 87	10/04/1967	PA	10	08	YP30	-35
F 88- 89	11/04/1967	PA	10	08	YP40	-50
F 95	18/04/1967	PA	10	15	YK00	
F111-114	09/05/1967	PA	10	15	YK10	-25
F115-118	09/05/1967	PA	10	08	YP30	-50
F119	16/05/1967	PA	10	15	YK00	
F128-131	12/06/1967	LA	10	15	YK10	-25
F132-135	12/06/1967	LA	10	08	YP30	-50
F136	19/06/1967	PA	10	15	YK00	
F153	17/07/1967	PA	10	15	YK00	
F162-165	20/07/1967	PA	10	15	YK10	-25
F166-169	20/07/1967	PA	10	08	YP30	-40
F184	21/08/1967	PA	10	15	YK00	
F192-195	24/08/1967	PA	10	15	YK10	-25
F196-199	24/08/1967	PA	10	08	YP30	-50
F200-203	11/09/1967	PA	10	15	YK10	-25
F204-207	12/09/1967	PA	10	08	YP30	-50
F208	13/09/1967	PA	10	15	YK00	
F223	16/10/1967	PA	10	15	YK00	
F231-234	19/10/1967	PA	10	09	YK10	-25
F235-238	19/10/1967	PA	10	08	YP30	-50
F253	13/11/1967	PA	10	15	YK00	
F265-268	16/11/1967	PA	10	15	YK10	-25
F261-264	16/11/1967	PA	10	08	YP30	-35

F276	13/12/1967	PA	10	15	YK00
F277-280	14/12/1967	PA	10	15	YK10 -25
F281-284	14/12/1967	PA	10	08	YP30 -50
F 1- 4	08/01/1968	PA	10	11	YK10 -25
F 5	09/01/1968	PA	10	15	YK00
F 19- 22	08/02/1968	PA	10	15	YK10 -25
F 15- 18	08/02/1968	PA	10	08	YP30 -50
F 31- 34	05/03/1968	PA	10	15	YK10 -25
F 35- 38	07/03/1968	PA	10	08	YP30 -50
F 39	19/03/1968	PA	10	15	YK00
F 56	08/04/1968	PA	10	15	YK00
F 62- 65	18/04/1968	PA	10	15	YK10 -25
F 66- 69	18/04/1968	PA	10	08	YP30 -50
F 81- 85	14/05/1968	PA	10	15	YK00 -25
F 77- 80	14/05/1968	PA	10	08	YP30 -50
F 93- 96	21/05/1968	PA	10	05	YM30 -45
F104	21/06/1968	PA	10	15	YK00
F113-116	26/06/1968	PA	10	15	YK10 -25
F117-120	26/06/1968	PA	10	08	YP30 -50
F121	15/07/1968	PA	10	15	YK00
F130-133	18/07/1968	PA	10	15	YK10 -25
F134-137	18/07/1968	PA	10	08	YP30 -50
F145-148	12/08/1968	PA	10	08	YK10 -25
F149-152	12/08/1968	PA	10	08	YP30 -50
F153	14/08/1968	PA	10	15	YK00
F181-184	09/09/1968	PA	10	14	YK10 -25
F185-188	09/09/1968	PA	10	08	YP30 -50
F189	11/09/1968	PA	10	15	YK00
F210	14/10/1968	PA	10	15	YK00
F214-217	15/10/1968	PA	10	15	YK10 -25
F218-221	15/10/1968	PA	10	08	YP30 -50
F229	11/11/1968	PA	10	15	YK00
F238-241	14/11/1968	PA	10	15	YK10 -25
F242-244	14/11/1968	PA	10	08	YP30 -40
F245	15/11/1968	PA	10	08	YP50
F253-256	09/12/1968	PA	10	15	YK10 -25
F257-260	09/12/1968	PA	10	08	YP30 -50
F261	10/12/1968	PA	10	15	YK00
F 3	06/01/1969	PA	10	15	YK00
F 10- 13	08/01/1969	PA	10	15	YK10 -25
F 14	08/01/1969	PA	10	08	YP30
F 15- 17	09/01/1969	PA	10	08	YP35 -50
F 24	03/02/1969	PA	10	15	YK00
F 29- 32	04/02/1969	PA	10	15	YK10 -25
F 25- 28	04/02/1969	PA	10	08	YP30 -35
F 48- 51	03/03/1969	PA	10	15	YK10 -25
F 52- 54	03/03/1969	PA	10	08	YP30 -40
F 55	04/03/1969	PA	10	08	YP50
F 63	10/03/1969	PA	10	15	YK00
F 73	07/04/1969	PA	10	15	YK00
F 83- 86	10/04/1969	PA	10	15	YK10 -25
F 87- 90	10/04/1969	PA	10	08	YP30 -50
F105-108	08/05/1969	PA	10	15	YK10 -25
F109-112	08/05/1969	PA	10	08	YP30 -50

F113	12/05/1969	PA	10	15	YK00
F144	06/06/1969	PA	10	08	YP30
F130	09/06/1969	PA	10	15	YK00
F140-143	12/06/1969	PA	10	15	YK10 -25
F145-147	12/06/1969	PA	10	08	YP35 -50
F148	07/07/1969	PA	10	15	YK00
F151	10/07/1969	PA	10	15	YK10
F158-161	10/07/1969	PA	10	15	YK10 -25
F162-165	10/07/1969	PA	10	08	YP30 -50
F173-176	04/08/1969	PA	10	15	YK10 -25
F177-180	04/08/1969	PA	10	08	YP30 -50
F181	05/08/1969	PA	10	15	YK00
F198	08/09/1969	PA	10	15	YK00
F209-212	11/09/1969	PA	10	15	YK10 -25
F213-216	11/09/1969	PA	10	08	YP30 -50
F224	06/10/1969	PA	10	15	YK00
F234-237	09/10/1969	PA	10	15	YK10 -25
F238-241	09/10/1969	PA	10	08	YP30 -50
F249-252	03/11/1969	PA	10	16	YK10 -25
F253-256	03/11/1969	PA	10	08	YP30 -50
F257	05/11/1969	PA	10	15	YK00
F273	01/12/1969	PA	10	15	YK00
F283-286	04/12/1969	PA	10	08	YP30 -50
F287-290	05/12/1969	PA	10	15	YK10 -25
F 1	05/01/1970	PA	10	15	YK00
F 11- 13	12/01/1970	PA	10	15	YK10 -20
F 15	12/01/1970	PA	10	15	YK25
F 14	12/01/1970	PA	10	08	YP30
F 26	09/02/1970	PA	10	15	YK00
F 35- 38	12/02/1970	PA	10	15	YK10 -25
F 39- 42	12/02/1970	PA	10	08	YP30 -50
F 60- 63	11/03/1970	PA	10	15	YK10 -25
F 64- 67	11/03/1970	PA	10	08	YP30 -50
F 75	20/04/1970	PA	10	15	YK00
F 84- 87	23/04/1970	PA	10	15	YK10 -25
F 88- 91	23/04/1970	PA	10	08	YP30 -50
F 99	11/05/1970	PA	10	15	YK00
F109-112	14/05/1970	PA	10	15	YK10 -25
F113-116	14/05/1970	PA	10	08	YP30 -50
F124-127	18/06/1970	PA	10	15	YK10 -25
F128-131	18/06/1970	PA	10	08	YP30 -50
F132	22/06/1970	PA	10	15	YK00
F142	06/07/1970	PA	10	15	YK00
F152-155	09/07/1970	PA	10	15	YK10 -25
F156-159	09/07/1970	PA	10	08	YP30 -50
F202	07/08/1970	PA	10	15	YK00
F214-217	13/08/1970	PA	10	15	YK10 -25
F210-213	13/08/1970	PA	10	08	YP30 -50
F222	14/09/1970	PA	10	15	YK00
F232-235	17/09/1970	PA	10	15	YK10 -25
F236-239	17/09/1970	PA	10	08	YP30 -50
F277-280	08/10/1970	PA	10	15	YK10 -25
F281-284	08/10/1970	PA	10	08	YP30 -50
F285	12/10/1970	PA	10	15	YK00

F323	11/11/1970	PA	10	15	YK00
F338-341	12/11/1970	PA	10	15	YK10 -25
F342-345	12/11/1970	PA	10	08	YP30 -50
F346	07/12/1970	PA	10	15	YK00
F353-356	10/12/1970	PA	10	15	YK10 -25
F357-360	10/12/1970	PA	10	08	YP30 -50
F 1	04/01/1971	PA	10	15	YK00
F 14- 17	07/01/1971	PA	10	15	YK10 -25
F 18- 21	07/01/1971	PA	10	08	YP30 -50
F 52	01/02/1971	PA	10	15	YK00
F 56- 59	08/02/1971	PA	10	15	YK10 -25
F 60- 62	08/02/1971	PA	10	08	YP30 -35
F 70- 73	01/03/1971	LA	10	15	YK10 -25
F 74- 77	01/03/1971	LA	10	08	YP30 -50
F 99	09/03/1971	LA	10	15	YK00
F121	05/04/1971	PA	10	15	YK00
F131-133	13/04/1971	PA	10	15	YK10 -20
F138	14/04/1971	PA	10	15	YK25
F134-137	14/04/1971	PA	10	08	YP30 -50
F162	05/05/1971	PA	10	15	YK00
F163-166	06/05/1971	PA	10	15	YK10 -25
F167-170	06/05/1971	PA	10	08	YP30 -50
F206-209	03/06/1971	PA	10	15	YK10 -25
F210-213	04/06/1971	PA	10	08	YP30 -50
F214	07/06/1971	PA	10	15	YK00
F232-236	08/07/1971	PA	10	15	YK05 -25
F237-240	08/07/1971	PA	10	08	YP30 -50
F241	12/07/1971	PA	10	15	YK00
F308-312	04/08/1971	PA	10	15	YK05 -25
F313-316	04/08/1971	PA	10	08	YP30 -50
F317	09/08/1971	PA	10	15	YK00
F382-385	08/09/1971	LA	10	08	YP30 -50
F386-389	09/09/1971	LA	10	15	YK10 -25
F390	10/09/1971	LA	10	05	YK05
F391	13/09/1971	PA	10	15	YK00
F456-460	07/10/1971	PA	10	15	YK05 -25
F461-464	07/10/1971	PA	10	08	YP30 -50
F465	12/10/1971	PA	10	15	YK00
F530-534	08/11/1971	PA	10	15	YK05 -25
F535-538	08/11/1971	PA	10	08	YP30 -50
F539	10/11/1971	PA	10	15	YK00
F603-607	09/12/1971	PA	10	15	YK05 -25
F608-611	09/12/1971	PA	10	08	YP30 -50
F612	13/12/1971	PA	10	15	YK00
F 1	04/01/1972	PA	10	15	YK00
F 12- 16	10/01/1972	PA	10	15	YK05 -25
F 17- 20	10/01/1972	PA	10	08	YP30 -50
F 74	01/02/1972	PA	10	15	YK00
F 85- 88	07/02/1972	PA	10	15	YK05 -20
F 89	08/02/1972	LA	10	15	YK25
F112-113	09/02/1972	LA	10	08	YP40 -50
F114-115	10/02/1972	LA	10	08	YP30 -35
F147	06/03/1972	PA	10	15	YK00
F158-162	08/03/1972	LA	10	15	YK05 -25

F163-166	08/03/1972	LA	10	08	YP30 -50
F220	03/04/1972	PA	10	15	YK00
F235-239	05/04/1972	LA	10	05	YK05 -25
F231-234	05/04/1972	LA	10	08	YP30 -50
F277-281	08/05/1972	LA	10	15	YK05 -25
F282-285	08/05/1972	LA	10	08	YP30 -50
F286	10/05/1972	LA	10	15	YK00
F325-329	08/06/1972	PA	10	15	YK05 -25
F330-333	09/06/1972	PA	10	08	YP30 -50
F334	12/06/1972	PA	10	15	YK00
F427-428	29/06/1972	LA	10	08	YK00 -05
F433-436	30/06/1972	LA	10	08	YK10 -25
F429-432	30/06/1972	LA	10	08	YP30 -50
F446	01/08/1972	PA	10	15	YK00
F449	01/08/1972	PA	10	05	YK05
F459-461	21/08/1972	LA	10	08	YK00 -10
F471-473	22/08/1972	LA	10	08	YK15 -25
F474-475	22/08/1972	LA	10	08	YP30 -35
F496-497	23/08/1972	LA	10	08	YP40 -50
I 11- 16	08/01/1981	PA	10	05	YK195-214

-LINED 30" TRAWL (33)

A 4	04/06/1973	LA	33	10	10	YK000
A 51- 61	14/06/1973	PA	33	10		YB001-011
A157-164	01/02/1974	LA	33		25	YK00 -09
A165-180	04/02/1974	LA	33		25	YK10 -29
A181-197	05/02/1974	LA	33		25	YP30 -50
A198-210	06/02/1974	LA	33		25	YM30 -45
I701-715	15/07/1974	LA	33	05		YK01 -15
I716-717	16/07/1974	LA	33	05		YK16 -17
A305-308	26/08/1974	LA	33		25	YK10 -25
A309-312	26/08/1974	LA	33		25	YM035-50
A313	27/08/1974	LA	33		25	YM30
A314-318	28/08/1974	LA	33		25	YP30 -50
A140-157	28/01/1975	LA	33		25	YK000-017
A158-165	29/01/1975	LA	33		25	YK019-028
A166-182	29/01/1975	LA	33		25	YP029-049
I632	14/07/1975	PA	33	05		YK34
I633-635	14/07/1975	PA	33	05		YM1 -3
I629-631	14/07/1975	PA	33	05		YP1 -3
A371-372	20/08/1975	LA	33	05		YK000-005
A373-376	25/08/1975	LA	33	05		YK010-025
A377-381	25/08/1975	LA	33	05		YP030-050
A105	21/01/1976	LA	33		25	YK029
A106-117	21/01/1976	LA	33		25	YM030-036
A 89-104	21/01/1976	LA	33		25	YP031-048
A118-144	22/01/1976	LA	33		25	YK000-028
I 7- 26	02/03/1977	LA	33	05		YK091-122
I 48- 49	03/03/1977	LA	33	05		Y1001-003
I 52	03/03/1977	LA	33	05		Y1002
I 27- 37	03/03/1977	LA	33	05		YM100-268

I 38- 47	03/03/1977	LA	33	05		YP055-132
I 50- 51	03/03/1977	LA	33	05		YP063-229
I 53- 77	04/03/1977	LA	33	05		YK080-170
I117-136	03/02/1978	LA	33		25	YK077-236
I137-142	06/02/1978	LA	33		25	YK072-166
I143-167	08/02/1978	LA	33		25	YK082-112
I867-876	21/02/1978	LA	33		25	YK070-241
I327-336	06/03/1978	LA	33		25	YP056-227
I349-354	07/03/1978	LA	33		25	YK048-113
I340-348	07/03/1978	LA	33		25	YM274-275
I968	03/11/1978	LA	33	05		YK010
I877-890	18/12/1978	LA	33			YK071-254
I891-933	19/12/1978	LA	33		25	YK082-120
I955-956	20/12/1978	LA	33		25	YK046-052
I934-944	20/12/1978	LA	33		25	YM274-275
I945-954	20/12/1978	LA	33		25	YP055-225
I957-963	21/12/1978	LA	33		25	YK069-075
I 1- 3	09/01/1979	LA	33		25	YK171-255
I 9- 33	10/01/1979	LA	33		25	YK117-176
I 71- 80	17/01/1979	LA	33		25	YK051-211
I 81- 90	17/01/1979	LA	33		25	YP054-216
I 91	17/01/1979	LA	33		25	YK125
I126-147	19/01/1979	LA	33		25	YK077-169
I284-303	06/02/1979	LA	33		25	YK067-080
I304-330	08/02/1979	LA	33		25	YK041-255
I331	09/02/1979	LA	33		25	YK106
I332-339	12/02/1979	LA	33		25	YK044-110
I346-349	28/02/1979	LA	33		25	YK000-000
I354-375	01/03/1979	LA	33		25	YK198-255
I392-401	02/03/1979	LA	33		25	YK041-122
I780-786	04/12/1979	JS	33	05		YK199-231
I787-792	05/12/1979	JS	33	05		YK205-216
I 1- 6	08/01/1980	JS	33	05		YK193-233
I 7- 13	09/01/1980	JS	33	05		YK124-196
I 29- 41	12/02/1980	PF	33	05		YK178-249
I 71- 76	27/02/1980	PA	33	05		YK238-257
I 79- 81	05/03/1980	PA	33	05		YK233-254
I 82- 93	06/03/1980	PA	33	05		YK187-217
I126-130	07/04/1980	JS	33	05		YK178-247
I131-140	08/04/1980	JS	33	05		YK084-221

-30" TRAWL, UNLINED BUT WITH TICKLER CHAIN, (30" BRIDLE ?) (4

F447-454	17/05/1973	LA	43	05		YK10 -25
F455-462	01/06/1973	PA	43	05		YK10 -25

-30" TRAWL, LINED, AND WITH TICKLER CHAIN , 30" BRIDLE (68)

I478-485	02/05/1979	PA	68	05		YK010-025
I514-523	05/06/1979	PA	68	05		YK005-025

I524-525	05/06/1979	PA	68	05	YP030-030
I566-575	02/07/1979	PA	68	05	YK005-025
I606-615	13/08/1979	PA	68	05	YK005-025
I616-617	13/08/1979	PA	68	05	YP030-030
I648-658	04/09/1979	LA	68	05	YK005-025
I659-660	04/09/1979	LA	68	05	YP030-030
I693-702	05/10/1979	LA	68	05	YK005-025
I703	05/10/1979	LA	68	05	YP030
I740-749	05/11/1979	LA	68	05	YK005-025
I750-751	05/11/1979	LA	68	05	YP030-030

-30° TRAWL LINED, AND WITH TICKLER CHAIN, 60° BRIDLE (70).

I240-249	09/06/1980	JS	70	05	YK005-025
I250-251	09/06/1980	JS	70	05	YP030-030
I264-273	03/07/1980	JS	70	05	YK005-025
I274-275	03/07/1980	JS	70	05	YP030-030
I223	01/08/1980	JS	70	05	YK015
I302-311	01/08/1980	JS	70	05	YK005-030
I389-400	09/09/1980	JS	70	05	YK000-025
I401-402	09/09/1980	JS	70	05	YP030-030
I403-408	17/09/1980	JS	70	05	YP030-050
I433-442	06/10/1980	JS	70	05	YK005-025
I443-444	06/10/1980	JS	70	05	YP030-030
I483-495	10/11/1980	JS	70	05	YK000-030
I532-548	04/12/1980	PA	70	05	YK228-241
I 1- 10	07/01/1981	PA	70	05	YK249-261
I 17	19/01/1981	PA	70	05	YK249
I 18- 22	21/01/1981	JS	70	05	YK159-231
I 43- 53	10/02/1981	JS	70	05	YK217-258
I 71- 74	23/02/1981	JS	70	05	YK158-234
I122-129	27/03/1981	JS	70	05	YK058-306
I130-142	02/04/1981	JA	70	05	YK046-141
I143-146	09/04/1981	JA	70	05	YK147-165
I186-198	20/05/1981	JA	70	05	YK000-020
I199-204	03/06/1981	SJ	70	05	YK005-020
I207-210	03/06/1981	SJ	70	05	YK015-025
I205-206	03/06/1981	SJ	70	05	YP030-030
I246-256	02/07/1981	JS	70	05	YK000-025
I257-260	02/07/1981	JS	70	05	YP030-040
I298-303	04/08/1981	JS	70	05	YK010-020
I308-309	04/08/1981	JS	70	05	YK025-025
I304-307	04/08/1981	JS	70	05	YP030-040
I333-341	03/09/1981	JS	70	05	YK005-025
I346-347	03/09/1981	03	70	05	YK020-020
I342-345	03/09/1981	JS	70	05	YP030-040
I375-385	06/10/1981	JS	70	05	YK000-025
I386	06/10/1981	JS	70	05	YP030
I387	06/10/1981	JS	70	05	YP030
I388-389	06/10/1981	JS	70	05	YP035-040
I417-426	04/11/1981	JS	70	05	YK005-025
I427-430	04/11/1981	JS	70	05	YP030-035
I460-462	15/12/1981	JS	70	05	YK152-170

I463-467	17/12/1981	JS	70	05	YP125-230
I468-476	17/12/1981	JS	70	05	YK122-261
I 11	18/01/1982	JS	70	05	YK191
I 1- 4	18/01/1982	JS	70	05	YK238-257
I 5- 10	22/01/1982	JS	70	05	YK196-215
I 28- 44	04/02/1982	JS	70	05	YK228-238
I104-106	08/03/1982	JS	70	05	YK231-251
I107-120	09/03/1982	JS	70	05	YK227-259
I 91	15/03/1982	03	70	05	YK255
I176-179	19/04/1982	JS	70	05	YK243-253
I223-225	19/04/1982	JS	70	05	YK243-253
I180-192	22/04/1982	JS	70	05	YK189-229
I230-239	10/05/1982	03	70	05	YK05 -25
I240-243	10/05/1982	03	70	05	YP30 -40
I269-278	07/06/1982	03	70	05	YK05 -25
I279-282	07/06/1982	03	70	05	YP30 -40
I309-318	12/07/1982	03	70	05	YK05 -25
I319-322	12/07/1982	03	70	05	YP30 -40
I393-403	20/08/1982	03	70	05	YK00 -25
I404-407	20/08/1982	03	70	05	YP30 -40
I420-430	13/09/1982	03	70	05	YK00 -25
I431-434	13/09/1982	03	70	05	YP30 -40
I483-491	11/10/1982	03	70	05	YK00 -25
I496-497	11/10/1982	03	70	05	YK20 -20
I492-495	11/10/1982	03	70	05	YP30 -40
I528-537	12/11/1982	03	70	05	YK05 -25
I538-541	12/11/1982	03	70	05	YP30 -40
I573	23/11/1982	03	70	05	YK00
I576-589	07/12/1982	30	70	05	YK00 -25
I 1- 12	11/01/1983	03	70	05	YK050-235
I 34- 47	08/02/1983	03	70	05	YK076-124
I 48- 57	09/02/1983	03	70	05	YP262-323
I 88- 90	15/03/1983	03	70	05	YK165-237
I 92-101	15/03/1983	03	70	05	YK214-260
I102-105	05/04/1983	03	70	05	YK233-257
I106-116	06/04/1983	03	70	05	YK193-260
I129-139	19/05/1983	03	70	05	YK000-025
I140-143	19/05/1983	03	70	05	YP030-040
I181-195	23/06/1983	03	70	05	YK000-P35
I196-210	08/07/1983	03	70	05	YK000-P35
I259-261	18/08/1983	03	70	05	YK000-005
I263-270	18/08/1983	03	70	05	YK010-025
I272-273	18/08/1983	03	70	05	YK030-035
I271	18/08/1983	03	70	05	YP030
I274-284	14/09/1983	03	70	05	YK000-025
I285-287	14/09/1983	03	70	05	YP030-035
I312-325	07/10/1983	03	70	05	YK000-P35
I400-414	18/11/1983	03	70	05	YK000-P35
I427-438	01/12/1983	03	70	05	YK010-P40
I484	15/12/1983	03	70	05	YK005
I 1- 6	10/01/1984	16	70	05	YK000-010
I 21- 29	22/02/1984	03	70	05	YK010-P30
I 30- 33	23/02/1984	03	70	05	YK000-005
I 64- 70	15/03/1984	03	70	05	YK010-045

I990	15/03/1984	03	70	05	YK020
I104-106	16/04/1984	03	70	05	YK000-005
I107-115	17/04/1984	03	70	05	YK010-045
I128-141	16/05/1984	03	70	05	YK003-030
I166-178	04/06/1984	03	70	05	YK002-030
I214-221	06/07/1984	03	70	05	YK010-025
I257-260	31/07/1984	03	70	05	YKP30-P45
I281-294	15/08/1984	03	70	05	YK002-P30
I307-320	11/09/1984	03	70	05	YK002-P35
I344-357	16/10/1984	03	70	05	YK002-045
I418-431	16/11/1984	03	70	05	YK002-045
I443-454	17/12/1984	03	70	05	YK010-045

RAPPAHANNOCK STATIONS MADE WITH 30 SEMI-BALLOON TRAWL
 -WITH VARIOUS CONFIGURATIONS

30° UNLINED SEMI-BALLOON TRAWL (10)

F 44- 50	02/03/1967	PA	10	18	RA11 -40
F 68	28/03/1967	PA	10	15	RA10
F 72- 74	28/03/1967	PA	10	08	RA30 -40
F145-151	29/06/1967	PA	10	15	RA10 -15
F171-176	25/07/1967	PA	10	08	RA15 -40
F177-183	16/08/1967	PA	10	15	RA10 -40
F216-221	19/09/1967	PA	10	15	RA10 -35
F222	20/09/1967	PA	10	08	RA40
F239-245	24/10/1967	PA	10	07	RA10 -40
F246-252	07/11/1967	PA	10	08	RA10 -40
F291	19/12/1967	PA	10	15	RA10
F 8- 11	16/01/1968	LA	10	15	RA10 -25
F 47- 53	02/04/1968	PA	10	15	RA10 -40
F 70- 76	09/05/1968	PA	10	08	RA10 -40
F 97-103	12/06/1968	PA	10	08	RA10 -40
F140-144	24/07/1968	PA	10	15	RA20 -40
F174-180	29/08/1968	PA	10	08	RA10 -40
F198-204	18/09/1968	PA	10	08	RA10 -40
F222-228	24/10/1968	PA	10	08	RA10 -40
F246-252	19/11/1968	PA	10	15	RA10 -35
F271-277	17/12/1968	PA	10	15	RA10 -30
F 18- 23	14/01/1969	PA	10	10	RA10 -35
F 41- 42	12/02/1969	PA	10	15	RA10 -15
F 44- 47	12/02/1969	PA	10	08	RA25 -40
F 56- 62	06/03/1969	PA	10	08	RA10 -40
F 91- 97	17/04/1969	PA	10	15	RA10 -35
F104	05/05/1969	PA	10	15	RA35
F 98-103	06/05/1969	PA	10	08	RA10 -40
F123-129	04/06/1969	PA	10	15	RA10 -35
F166-172	15/07/1969	PA	10	15	RA10 -40
F191-197	19/08/1969	PA	10	08	RA10 -30
F217-223	16/09/1969	PA	10	15	RA10 -35
F242-248	14/10/1969	PA	10	15	RA10 -35
F266-272	18/11/1969	PA	10	15	RA10 -25
F297	09/12/1969	PA	10	15	RA35
F 16- 18	15/01/1970	PA	10	15	RA10 -20
F 19- 25	04/02/1970	PA	10	15	RA10 -40
F 43- 49	02/03/1970	PA	10	15	RA10 -40
F 68- 74	16/04/1970	PA	10	15	RA11 -40
F 92- 98	05/05/1970	PA	10	15	RA11 -30
F117-123	16/06/1970	PA	10	15	RA11 -35
F174-180	14/07/1970	PA	10	15	RA11 -35
F203-209	11/08/1970	PA	10	15	RA11 -30
F240-246	22/09/1970	PA	10	15	RA11 -30
F270-276	06/10/1970	PA	10	15	RA11 -30
F299-305	04/11/1970	PA	10	15	RA11 -30
F367	15/12/1970	PA	10	15	RA35

F 22- 28	12/01/1971	PA	10	15	RA11 -35
F 63- 66	10/02/1971	PA	10		RA11 -25
F 67- 69	17/02/1971	PA	10	15	RA30 -40
F106-112	11/03/1971	PA	10	15	RA11 -40
F139-145	15/04/1971	PA	10	08	RA11 -40
F146-151	03/05/1971	PA	10	15	RA15 -40
F152	04/05/1971	PA	10	15	RA11
F199-205	01/06/1971	PA	10	15	RA11 -40
F223-228	06/07/1971	PA	10	15	RA15 -40
F229-231	07/07/1971	PA	10	05	RA00 -11
F299-304	02/08/1971	PA	10	15	RA15 -40
F305-307	03/08/1971	PA	10	05	RA00 -11
F373-378	02/09/1971	PA	10	08	RA15 -40
F379-381	03/09/1971	PA	10	05	RA00 -11
F447-450	05/10/1971	PA	10	15	RA15 -30
F452	05/10/1971	PA	10	15	RA35
F453-455	06/10/1971	PA	10	05	RA00 -11
F521-526	04/11/1971	PA	10	15	RA15 -35
F451	05/11/1971	PA	10	15	RA40
F527-529	05/11/1971	PA	10	05	RA00 -11
F594-599	07/12/1971	PA	10	15	RA15 -35
F600-602	08/12/1971	PA	10	05	RA00 -11
F 21- 29	13/01/1972	PA	10	05	RA00 -40
F135-138	17/02/1972	PA	10	15	RA00 -15
F139-143	18/02/1972	PA	10	15	RA20 -40
F211-216	16/03/1972	PA	10	15	RA00 -25
F217-219	17/03/1972	PA	10	07	RA30 -40
F240-242	10/04/1972	LA	10	15	RA00 -11
F243-248	11/04/1972	LA	10	08	RA15 -40
F268-270	01/05/1972	LA	10	15	RA00 -11
F271-276	02/05/1972	LA	10		RA15 -40
F316-324	07/06/1972	PA	10	05	RA00 -40
F437-438	02/07/1972	LA	10	08	RA00 -05
F439-445	03/07/1972	LA	10	08	RA10 -40
F730-732	30/10/1972	PA	10	05	RA00 -11

30" LINED SEMI-BALLOON TRAWL (33)

A 64- 66	16/01/1975	LA	33	25	RA001-002
A 72-102	23/01/1974	LA	33		RA54 -91
A103-131	24/01/1974	LA	33	25	RA17 -52
A132-145	25/01/1974	LA	33	25	RA00 -16
I730-746	17/07/1974	LA	33	04 25	RA01 -17
A335-340	18/09/1974	LA	33	25	RA25 -50
A341-347	19/09/1974	LA	33	25	RA55 -86
A 67- 89	22/01/1975	LA	33	25	RA061-089
A 90-121	23/01/1975	LA	33	25	RA021-059
A122-139	24/01/1975	LA	33	25	RA002-015
A231-233	09/02/1975	LA	33	25	RA027-029
A429-430	04/05/1975	LA	33	05	RA060-065
I545-548	09/07/1975	PA	33	05	RA42 -45
I568-588	10/07/1975	PA	33	05	RA21 -41
I589-608	11/07/1975	PA	33	05	RA01 -20

A409-410	02/09/1975	LA	33	05		RA000-005
A424-428	04/09/1975	LA	33	05		RA035-055
A205-219	05/02/1976	LA	33		25	RA000-014
A220-230	09/02/1976	LA	33		25	RA015-025
A234-265	10/02/1976	LA	33		25	RA030-069
A266-281	11/02/1976	LA	33		25	RA070-088
I 78-104	08/03/1977	LA	33		25	RA211-373
I105-133	09/03/1977	LA	33		25	RA255-426
I134-152	10/03/1977	LA	33		25	RA440-814
I 47- 74	30/01/1978	LA	33		25	RA042-498
I 75- 94	31/01/1978	LA	33		25	RA116-276
I 95-116	01/02/1978	LA	33		25	RA002-486
I148-159	22/01/1979	LA	33		25	RA010-344
I173-191	23/01/1979	LA	33		25	RA453-526
I215-243	24/01/1979	LA	33		25	RA051-258
I258-267	25/01/1979	LA	33		25	RA019-376
I276-283	26/01/1979	LA	33		25	RA184-348
I807-818	13/12/1979	JS	33	05		RA338-510
I 42- 54	14/02/1980	PA	33	05		RA312-464
I111	12/03/1980	PA	33	05		RA468
I112-115	24/03/1980	PA	33	05		RA304-517
I117-122	24/03/1980	PA	33	05		RA447-472
I116	24/05/1980	PA	33	05		RA311

30° UNLINED SEM-BALLOON TRAWL WITH TICKLER CHAIN
(-WITH 30° BRIDLE ?) (43)

F429-438	08/05/1973	LA	43	05		RA15 -35
F463-472	05/06/1973	PA	43	05		RA15 -35

30° LINED LINED SEMI-BALLOON WITH TICKLER CHAIN
-WITH 30° BRIDLE (68)

I494-503	08/05/1979	PA	68	05		RA015-035
I536-545	13/06/1979	PA	68	05		RA015-035
I586-595	10/07/1979	PA	68	05		RA015-035
I618-627	07/08/1979	PA	68	05		RA015-035
I671-679	12/09/1979	PA	68	05		RA015-035
I715-724	16/10/1979	PA	68	05		RA015-035
I762-771	16/11/1979	LA	68	05		RA015-035

30° LINED SEMI-BALLOON TRAWL WITH TICKLER CHAIN
-WITH 60° BRIDLE (70)

I162-171	06/05/1980	JS	70	05		RA015-035
I200-210	03/06/1980	JS	70	05		RA035-457
I276-286	08/07/1980	JS	70	05		RA002-035
I312-322	06/08/1980	PA	70	05		RA002-035
I351-361	03/09/1980	JS	70	05		RA002-035
I409-419	30/09/1980	JS	70	05		RA002-035
I461-470	04/11/1980	JS	70	05		RA002-035

I517-522	01/12/1980	PA	70	05	RA458-512
I523-531	02/12/1980	PA	70	05	RA325-514
I 77- 91	02/03/1981	JS	70	05	RA326-464
I147-157	04/05/1981	JA	70	05	RA002-025
I223-233	09/06/1981	SJ	70	05	RA002-035
I261-271	06/07/1981	JS	70	05	RA002-035
I322-332	01/09/1981	JS	70	05	RA002-035
I362-369	02/10/1981	JS	70	05	RA002-025
I371-373	02/10/1981	JS	70	05	RA030-035
I405-415	02/11/1981	JS	70	05	RA002-035
I445-459	14/12/1981	JS	70	05	RA317-459
I 45- 59	08/02/1982	JS	70	05	RA322-463
I121-134	11/03/1982	JS	70	05	RA322-456
I193-207	29/04/1982	03	70	05	RA320-457
I257-268	14/05/1982	03	70	05	RA002-035
I297-308	11/06/1982	03	70	05	RA002-035
I337-348	19/07/1982	03	70	05	RA002-035
I408-417	24/08/1982	03	70	05	RA002-030
I418	24/08/1982	03	70	05	RA035
I419	24/08/1982	03	70	05	RA035
I450-461	17/09/1982	03	70	05	RA002-035
I471-476	08/10/1982	03	70	05	RA002-020
I478-482	08/10/1982	03	70	05	RA025-035
I542-553	16/11/1982	03	70	05	RA002-035
I623	15/12/1982	03	70	05	RA010
I 13- 24	13/01/1983	03	70	05	RA311-461
I 78- 87	22/02/1983	03	70	05	RA118-455
I117-128	10/05/1983	03	70	05	RA002-035
I157-169	08/06/1983	03	70	05	RA002-035
I211-222	12/07/1983	03	70	05	RA002-035
I247-258	16/08/1983	03	70	05	RA002-035
I288-299	16/09/1983	03	70	05	RA002-035
I326-337	12/10/1983	03	70	05	RA002-035
I415-426	21/11/1983	03	70	05	RA002-035
I458-469	09/12/1983	03	70	05	RA002-035
I 53- 63	13/03/1984	03	70	05	RA002-035
I 92-103	13/04/1984	03	70	05	RA002-035
I116-127	14/05/1984	03	70	05	RA002-035
I179-190	06/06/1984	03	70	05	RA002-035
I222-233	10/07/1984	03	70	05	RA002-035
I295-306	16/08/1984	03	70	05	RA002-035
I358-369	17/10/1984	03	70	05	RA002-035
I406-417	14/11/1984	03	70	05	RA002-035

LIST OF JAMES STATIONS MADE WITH VARIOUS
- CONFIGURATIONS OF A 30" TRAWL

30" UNLINED TRAWL (10)

F 2	08/01/1964	PA	10	15	JA13
F 4- 7	08/01/1964	PA	10	15	JA19 -35
F 91- 97	09/06/1964	PA	10	15	JA13 -39
F103-104	22/06/1964	PA	10	15	JA02 -13
F124-130	14/07/1964	LA	10	15	JA15 -39
F154-157	18/08/1964	PA	10	15	JA13 -27
F158	19/08/1964	PA	10	15	JA02
F168-172	09/09/1964	PA	10	15	JA15 -39
F183-187	13/10/1964	PA	10	15	JA15 -36
F238-241	15/12/1964	LA	10	15	JA15 -24
J 1- 4	12/01/1965	PA	10	15	JA17 -24
J 5	13/01/1965	PA	10	15	JA02
J 44	16/02/1965	PA	10	08	JA02
J 45- 49	17/02/1965	PA	10	15	JA13 -36
J 50- 54	16/03/1965	PA	10	15	JA13 -36
J 75- 79	14/04/1965	PA	10	15	JA13 -32
J 80	15/04/1965	PA	10	15	JA02
J 97-101	13/05/1965	PA	10	15	JA13 -36
J102	14/05/1965	PA	10	15	JA02
J115-119	08/06/1965	PA	10	15	JA13 -36
J144-149	08/07/1965	PA	10	15	JA13 -36
J165-166	09/08/1965	PA	10	15	JA13 -19
J167-174	10/08/1965	PA	10	15	JA24 -68
J177	11/08/1965	PA	10	15	JA71
J178	12/08/1965	PA	10	15	JA02
J196-201	15/09/1965	PA	10	15	JA13 -36
J224-229	19/10/1965	PA	10	15	JA13 -36
J249-254	16/11/1965	LA	10	15	JA13 -36
F 1- 7	18/01/1966	LA	10	15	JA13 -42
F 47- 53	22/02/1966	LA	10	15	JA13 -42
F 89- 94	22/03/1966	LA	10	15	JA13 -36
F129-134	19/04/1966	LA	10	15	JA13 -36
F190-196	24/05/1966	LA	10	15	JA13 -42
F239-244	21/06/1966	LA	10	15	JA13 -36
F286	07/07/1966	LA	10	15	JA36
F282-285	27/07/1966	LA	10	15	JA19 -32
F322-327	24/08/1966	LA	10	15	JA13 -36
F396-401	25/10/1966	LA	10	15	JA13 -36
F433-438	29/11/1966	LA	10	15	JA13 -36
F450-455	13/12/1966	PA	10	15	JA13 -32
F 20- 25	23/01/1967	PA	10	15	JA32 -36
F 35- 38	15/02/1967	PA	10	15	JA24 -36
F 40	15/02/1967	PA	10	15	JA13
F 54	13/03/1967	PA	10	15	JA13
F 55- 59	14/03/1967	PA	10	15	JA19 -36
F 98-100	20/04/1967	PA	10	15	JA26 -36
F122-127	17/05/1967	PA	10	15	JA13 -36
F137-142	20/06/1967	PA	10	15	JA13 -36

F156-161	18/07/1967	PA	10	15	JA13 -36
F187-191	22/08/1967	PA	10	15	JA13 -36
F211-215	14/09/1967	PA	10	15	JA13 -36
F226-230	17/10/1967	PA	10	15	JA13 -36
F256-260	14/11/1967	PA	10	08	JA13 -36
F269-273	11/12/1967	PA	10	08	JA13 -36
F 12- 14	18/01/1968	PA	10	15	JA13 -26
F 23	24/02/1968	PA	10	08	JA36
F 24- 27	27/02/1968	PA	10	15	JA13 -32
F 42- 46	21/03/1968	PA	10	15	JA13 -36
F 57- 61	16/04/1968	PA	10	08	JA13 -36
F 89	15/05/1968	PA	10	15	JA19
F 88	16/05/1968	PA	10	15	JA13
F 90- 92	16/05/1968	PA	10	08	JA26 -36
F108-112	25/06/1968	PA	10	15	JA13 -36
F125-129	16/07/1968	PA	10	08	JA13 -36
F157-161	15/08/1968	PA	10	08	JA13 -36
F162-166	20/08/1968	PA	10	05	JA39 -65
F167-169	21/08/1968	PA	10	05	JA68 -70
F193-197	12/09/1968	PA	10	08	JA13 -36
F205-209	08/10/1968	PA	10	15	JA13 -36
F233-234	12/11/1968	PA	10	15	JA32 -36
F264-265	11/12/1968	PA	10	15	JA13 -19
F266-268	12/12/1968	PA	10	15	JA26 -36
F 4- 9	07/01/1969	PA	10	08	JA13 -36
F 33- 38	06/02/1969	PA	10	15	JA13 -24
F 67- 71	11/03/1969	PA	10	08	JA13 -36
F 72	12/03/1969	PA	10	15	JA24
F 77- 82	08/04/1969	PA	10	08	JA13 -36
F117-122	13/05/1969	PA	10	08	JA13 -36
F134-139	10/06/1969	PA	10	08	JA13 -36
F152-157	08/07/1969	PA	10	15	JA13 -32
F185-188	07/08/1969	PA	10	15	JA24 -36
F190	07/08/1969	PA	10	10	JA13
F203-208	09/09/1969	PA	10	15	JA13 -32
F228-233	07/10/1969	PA	10	15	JA13 -32
F260-265	06/11/1969	PA	10	15	JA13 -32
F277-282	02/12/1969	PA	10	15	JA13 -36
F 5- 10	06/01/1970	PA	10	06	JA13 -32
F 29- 31	10/02/1970	PA	10	08	JA26 -36
F 32- 34	11/02/1970	PA	10	15	JA13 -24
F 50- 55	06/03/1970	PA	10	15	JA13 -24
F 78- 83	21/04/1970	PA	10	15	JA13 -32
F103-108	12/05/1970	PA	10	15	JA13 -32
F136-141	23/06/1970	PA	10	15	JA13 -27
F146-151	07/07/1970	PA	10	15	JA13 -27
F194-199	03/08/1970	PA	10	08	JA13 -36
F226-231	15/09/1970	PA	10	15	JA13 -32
F289	13/10/1970	PA	10	15	JA13
F291-294	13/10/1970	PA	10	15	JA24 -27
F316-321	10/11/1970	PA	10	15	JA13 -32
F348-352	08/12/1970	PA	10	15	JA19 -27
F 4- 9	05/01/1971	PA	10	15	JA13 -27
F 54	02/02/1971	PA	10	15	JA13

F 78- 83	05/03/1971	LA	10	08	JA13 -36
F125-130	12/04/1971	PA	10	15	JA13 -24
F175-180	11/05/1971	PA	10	08	JA13 -36
F217-222	08/06/1971	PA	10	08	JA13 -36
F247-252	13/07/1971	PA	10	08	JA13 -36
F253-254	15/07/1971	PA	10	05	JA00 -05
F321-326	10/08/1971	PA	10	08	JA13 -36
F327-328	12/08/1971	PA	10	05	JA00 -05
F395-400	14/09/1971	PA	10	08	JA13 -36
F401-402	16/09/1971	PA	10	05	JA00 -05
F469-474	13/10/1971	PA	10	08	JA13 -36
F475-476	15/10/1971	PA	10	05	JA00 -05
F542-547	11/11/1971	PA	10	08	JA13 -36
F548-549	12/11/1971	PA	10	05	JA00 -05
F616-617	13/12/1971	PA	10	05	JA00 -05
F618-623	14/12/1971	PA	10	08	JA13 -36
F 4- 5	05/01/1972	PA	10	05	JA00 -05
F 6- 11	06/01/1972	PA	10	08	JA13 -36
F 77- 78	01/02/1972	PA	10	05	JA00 -05
F 79- 84	02/02/1972	PA	10	08	JA13 -36
F150-151	06/03/1972	PA	10	05	JA00 -05
F152-157	07/03/1972	PA	10	08	JA13 -36
F223-224	03/04/1972	PA	10	05	JA00 -05
F225-230	04/04/1972	PA	10	08	JA13 -36
F289-290	10/05/1972	LA	10	05	JA00 -05
F291-296	11/05/1972	LA	10	08	JA13 -36
F337-338	12/06/1972	PA	10	05	JA00 -05
F339-344	13/06/1972	PA	10	08	JA13 -36
F418-423	28/06/1972	LA	10	08	JA13 -36
F424-426	29/06/1972	LA	10	08	JA00 -10
F450	08/08/1972	LA	10	08	JA00
F451-456	09/08/1972	LA	10	08	JA05 -32
F457	10/08/1972	LA	10	08	JA36
F458	15/08/1972	LA	10	08	JA13
F755	02/11/1972	PA	10	05	JA36
I576-585	05/07/1979	PA	10	05	JA001-027

30" LINED TRAWL (33)

F263	11/12/1968	PA	33	05	JE15
F279	11/12/1968	PA	33	05	JE02
A 38- 48	13/06/1973	PA	33	10	J8001-010
A217-229	13/02/1974	LA	33	25	JA65 -80
A214-216	13/02/1974	LA	33	25	JJN00-N03
A211-213	13/02/1974	LA	33	25	JTID0-I03
A230-261	14/02/1974	LA	33	25	JA25 -64
A262-281	19/02/1974	LA	33	25	JA00 -24
I809	24/07/1974	LA	33	05 25	JA02
I810-824	30/07/1974	LA	33	25	JA02 -16
A294-297	12/08/1974	LA	33	25	JA30 -45
A298-300	13/08/1974	LA	33	25	JA50 -60
A301-304	14/08/1974	LA	33	25	JA65 -80
A195-225	04/02/1975	LA	33	25	JA000-033

A226-253	05/02/1975	LA	33		25	JA035-069
A254-256	05/02/1975	LA	33		25	JTID0-ID3
A257-266	06/02/1975	LA	33		25	JA070-082
A267-269	06/02/1975	LA	33		25	JJND0-ND3
A270-272	10/02/1975	LA	33		25	JBB01-B03
A273-274	10/02/1975	LA	33		25	JN001-002
I780-799	22/07/1975	PA	33	05		JA01 -19
I806-822	23/07/1975	PA	33	05		JA21 -36
A354-361	19/08/1975	LA	33	05		JA025-060
A366-370	20/08/1975	LA	33	05		JA000-020
A 1- 8	07/01/1976	LA	33		25	JA000-007
A 9- 21	08/01/1976	LA	33		25	JA007-020
A 23- 26	09/01/1976	LA	33		25	JA023-024
A 27- 36	12/01/1976	LA	33		25	JA026-035
A 37- 40	12/01/1976	LA	33		25	JC002-002
A 42- 43	12/01/1976	LA	33		25	JC001-001
A 71- 73	13/01/1976	LA	33		25	JTID0-002
A 46- 70	13/01/1976	LA	33		25	JA036-066
A 74- 75	14/01/1976	LA	33		25	JA067-068
A 79- 88	14/01/1976	LA	33		25	JA070-075
A 76- 78	14/01/1976	LA	33		25	JND00-003
I168-191	13/02/1978	LA	33		25	JA137-328
I192-224	15/02/1978	LA	33		25	JA096-458
I225-249	16/02/1978	LA	33		25	JA510-514
I 4- 8	09/01/1979	PA	33		25	JA422-513
I 34- 45	10/01/1979	PA	33	05		JA014-214
I 46- 56	11/01/1979	PA	33	05		JA241-286
I 57- 70	16/01/1979	PA	33	05		JA080-287
I 92-111	17/01/1979	PA	33	05		JA102-316
I118-125	18/01/1979	PA	33		25	JA104-109
I160-172	22/01/1979	PA	33		25	JA115-347
I209-211	23/01/1979	PA	33	05		J1193-225
I214	23/01/1979	PA	33	05		J1228
I192-208	23/01/1979	PA	33	05		JA117-382
I212-213	23/01/1979	PA	33	05		JA143-145
I249-250	24/01/1979	PA	33	05		J1214-215
I252-255	24/01/1979	PA	33	05		J1131-134
I257	24/01/1979	PA	33	05		J1138
I244-248	24/01/1979	PA	33	05		JA151-390
I251	24/01/1979	PA	33	05		JA400
I256	24/01/1979	PA	33	05		JA153
I268-273	25/01/1979	PA	33	05		J1152-180
I274-275	25/01/1979	PA	33	05		JA156-172
I795-797	10/12/1979	JS	33	05		JA453-518
I798-806	11/12/1979	JS	33			JA324-526
I 14- 15	23/01/1980	PA	33	05		JA131-360
I 16- 28	24/01/1980	PA	33	05		JA527-535
I 56- 58	20/02/1980	PA	33	05		JA431-902
I 59- 70	21/02/1980	PA	33	05		JA349-456
I 96-101	10/03/1980	PA	33	05		JA303-511
I102-110	11/03/1980	PA	33	05		JA313-348

30" UNLINED TRAWL, WITH TICKLER CHAIN

WITH PROBABLY 30" BRIDLE (43)

F439-446	15/05/1973	LA	43	05	JA13 -27
F473-480	07/06/1973	PA	43	05	JA13 -27

30" LINED TRAWL , WITH TICKLER CHAIN
30" BRIDLE (68)

I486-493	04/05/1979	PA	68	05	JA013-027
I526-535	07/06/1979	PA	68	05	JA001-027
I628-637	03/08/1979	PA	68	05	JA001-027
I661-670	18/09/1979	LA	68	05	JA001-027
I705-714	11/10/1979	PA	68	05	JA001-027
I752-761	08/11/1979	LA	68	05	JA001-027

30" LINED TRAWL, WITH TICKLER CHAIN
60" BRIDLE (70)

I188-199	08/05/1980	JS	70	05	JA001-027
I228-229	05/06/1980	JS	70	05	JA001-001
I230-239	06/06/1980	JS	70	05	JA005-027
I252-263	02/07/1980	JS	70	05	JA001-027
I339-350	08/08/1980	PA	70	05	JA001-027
I378-388	05/09/1980	JS	70	05	JA001-027
I445	08/10/1980	JS	70	05	JA040
I447-457	08/10/1980	JS	70	05	JA001-027
I446	08/10/1980	JS	70	05	JC001
I500-511	13/11/1980	PA	70	05	JA001-040
I512	13/11/1980	PA	70	05	JC001
I570	09/12/1980	PA	70	05	JA130
I 59	17/01/1981	JS	70	05	JA265
I 23- 27	26/01/1981	JS	70	05	JA455-522
I 28	27/01/1981	JS	70	05	JA469
I 29- 36	28/01/1981	JS	70	05	JA315-499
I 40- 42	29/01/1981	JS	70	05	JA025-129
I 37- 39	29/01/1981	JS	70	05	JC045-044
I 54- 58	17/02/1981	JS	70	05	JA471-520
I 60- 61	17/02/1981	JS	70	05	JA234-525
I 62- 70	18/02/1981	JS	70	02	JA359-480
I110-117	24/03/1981	JS	70	05	JA361-531
I118-121	25/03/1981	JS	70	05	JA470-482
I174-185	18/05/1981	JA	70	05	JA000-017
I211-222	05/06/1981	SJ	70	05	JA001-027
I286-297	08/07/1981	03	70	05	JA001-027
I316-318	05/08/1981	03	70	05	JA017-024
I320-321	05/08/1981	03	70	05	JA027-027
I310-315	06/08/1981	03	70	05	JA001-013
I319	06/08/1981	03	70	05	JA024
I350-361	18/09/1981	03	70	05	JA001-024
I393-404	26/10/1981	03	70	05	JA001-027
I431-442	16/11/1981	03	70	05	JA001-027
I479-493	22/12/1981	JS	70	05	JA522-

I493	22/12/1981	JS	70	05	JA501
I 12- 27	02/02/1982	JS	70	05	JA361-517
I 79- 89	02/03/1982	JS	70	05	JA357-470
I 90- 93	04/03/1982	JS	70	05	JA434-461
I159-175	20/04/1982	JS	70	05	JA129-523
I244-254	12/05/1982	03	70	05	JA001-027
I283-294	09/06/1982	03	70	05	JA001-027
I323-334	14/07/1982	03	70	05	JA001-027
I380-391	17/08/1982	03	70	05	JA001-027
I435-446	15/09/1982	03	70	0	JA001-005
I514-517	15/10/1982	03	70	05	JA001-013
I518-521	27/10/1982	03	70	0	JA001-005
I523-527	27/10/1982	03	70	05	JA017-027
I563-564	19/11/1982	03	70	05	JA001-001
I565-570	22/11/1982	03	70	05	JA017-027
I571-572	23/11/1982	03	70	05	JA013-013
I574-575	23/11/1982	03	70	0	JA005-005
I600-611	10/12/1982	03	70	05	JA516-518
I522	27/20/1982	03	70	05	JA017
I 67- 77	16/02/1983	03	70	05	JA496-517
I144-156	24/05/1983	03	70	05	JA001-017
I170-180	17/06/1983	03	70	05	JA001-027
I223-234	14/07/1983	03	70	05	JA001-027
I235-246	12/08/1983	03	70	05	JA001-027
I300-311	19/09/1983	03	70	05	JA001-027
I338-347	14/10/1983	03	70	05	JA001-027
I348-363	17/10/1983	03	70	05	JE024-089
I364-369	18/10/1983	03	70	05	JE007-016
I370-376	19/10/1983	03	70	05	JN001-038
I377-388	15/11/1983	03	70	05	JA001-027
I389-397	16/11/1983	03	70	05	JE016-033
I398-399	17/11/1983	03	70	05	JE024-030
I470-480	14/12/1983	03	70	05	JE024-030
I 7- 13	13/01/1984	16	70	05	JA001-027
I 15	13/01/1984	16	70	05	JA027
I 16- 20	25/01/1984	03	70	05	JE007-024
I 34- 45	07/03/1984	03	70	05	JA001-C01
I 46- 52	08/03/1984	03	70	05	JE012-024
I 71- 80	10/04/1984	03	70	05	JA001-040
I 81	10/04/1984	03	70	05	JC001
I 82- 84	11/04/1984	03	70	05	JE024-033
I 86- 91	11/04/1984	03	70	05	JE016-043
I 85	14/04/1984	03	70	05	JE037
I212	11/05/1984	03	70	05	JE030
I142-154	21/05/1984	03	70	05	JA001-JC1
I155-165	22/05/1984	03	70	05	JE024-033
I191-202	08/06/1984	03	70	05	JA001-JC1
I203-211	11/06/1984	03	70	02	JE016-033
I213	11/06/1984	03	70	05	JE024
I234-245	12/07/1984	03	70	05	JA001-JC1
I246-254	13/07/1984	03	70	05	JE016-033
I255-256	14/07/1984	03	70	05	JE024-030
I261-264	09/08/1984	03	70	05	JE033-047
I265-273	10/08/1984	03	70	05	JA001-027

I274-280	14/08/1984	03	70	05	JE016-024
I321-331	17/09/1984	03	70	05	JA001-040
I332	17/09/1984	03	70	05	JC001
I333-343	18/09/1984	03	70	05	JE024-033
I370-381	19/10/1984	03	70	05	JA001-040
I382	19/10/1984	03	70	05	JC001
I383-393	22/10/1984	03	70	05	JE030-033
I394-404	12/11/1984	03	70	05	JA001-040
I405	12/11/1984	03	70	05	JC000
I432-442	20/11/1984	03	70	05	JE016-024

POTOMAC STATIONS MADE WITH 30" SEMI-BALLOON TRAWL
-WITH VARYING CONFIGURATION

30" UNLINED SEMI-BALLOON TRAWL (33)

A 1- 21	14/01/1974	LA	33	25	PD69 -94
A 22- 40	15/01/1974	LA	33	25	PD45 -68
A 41- 57	16/01/1974	LA	33	25	P000 -20
A319-329	10/09/1974	LA	33	25	PT45 -94
A330-334	17/09/1974	LA	33	25	PT00 -20
A 1- 24	13/01/1975	LA	33	25	P0066-094
A 25- 40	14/01/1975	LA	33	25	P0045-063
A 41- 60	15/01/1975	LA	33	25	P0002-019
A145-148	28/01/1976	LA	33	25	P0003-017
A149-184	29/01/1976	LA	33	25	P0045-089
A185-188	30/01/1976	LA	33	25	P0090-094
A189-204	04/02/1976	LA	33	25	P0000-019
I153	14/03/1977	LA	33		P0006
I155-160	14/03/1977	LA	33	25	P0344-964
I154	14/04/1977	LA	33	25	P0328
I 1- 4	09/01/1978	LA	33	25	P0212-232
I 5- 8	11/01/1978	LA	33	25	P0171-808
I 15	11/01/1978	LA	33	25	P0753
I 18	11/01/1978	LA	33	25	P0748
I 9- 14	11/01/1978	LA	33	25	P1366-386
I 16- 17	11/01/1978	LA	33	25	P1362-595
I 19- 20	11/01/1978	LA	33	25	P1587-588
I 21- 27	12/01/1978	LA	33	25	P0596-668
I 32	12/01/1978	LA	33	25	P0508
I 35	12/01/1978	LA	33	25	P0109
I 41	12/01/1978	LA	33	25	P0470
I 28- 31	12/01/1978	LA	33	25	P1340-347
I 33- 34	12/01/1978	LA	33	25	P1570-572
I 36- 40	12/01/1978	LA	33	25	P1510-563
I 42- 46	12/01/1978	LA	33	25	P1458-494
I277-284	28/02/1978	LA	33	25	P0307-961
I292-298	28/02/1978	LA	33	25	P0363-498
I285-291	28/02/1978	LA	33	25	P1233-407
I299-308	01/03/1978	LA	33	25	PD116-333

30" LINED SEMI-BALLOON TRAWL, WITH TICKLER CHAIN
WITH 30" BRIDLE (68)

I504-505	09/05/1979	PA	68	05	PD005-005
I506-513	10/05/1979	PA	68	05	PD010-025
I554-555	13/06/1979	PA	68	05	PD025-025
I546-553	14/06/1979	PA	68	05	PD005-020
I596-597	11/07/1979	PA	68	05	PD005-005
I600-605	11/07/1979	PA	68	05	PD015-025
I638-647	09/08/1979	PA	68	05	PD005-025
I598-599	11/08/1979	PA	68	05	PD010-010
I680-684	17/09/1979	PA	68	05	PD010-026

I725-734	18/10/1979	PA	68	05	PD011-021
I772-779	27/11/1979	PA	68	05	PD004-026

30" LINED SEMI-BALLOON TRAWL, WITH TICKLER CHAIN
WITH 60" BRIDLE (70)

I143-144	17/03/1982	JS	70	05	PD770-794
I 94	10/03/1981	JS	70	05	PD761
I 97- 99	10/03/1981	JS	70	05	PD818-836
I 92- 93	10/03/1981	JS	70	05	P1587-596
I 95- 96	10/03/1981	JS	70	05	P1379-386
I100	11/03/1981	JS	70	05	PD639
I108-109	11/03/1981	JS	70	05	PD968-995
I101-107	11/03/1981	JS	70	05	P1341-411
I 63	11/02/1982	JS	70	05	P147
I 60- 62	11/02/1982	JS	70	05	P1407-443
I 64- 70	11/02/1982	JS	70	05	P1343-485
I 71- 72	12/02/1982	JS	70	05	PD825-831
I 73- 78	12/02/1982	JS	70	05	P1386-588
I147-148	17/03/1982	JS	70	05	PD823-831
I141-142	17/03/1982	JS	70	05	P1588-595
I145-146	17/03/1982	JS	70	05	P1387-392
I149	18/03/1982	JS	70	05	PD678
I158	18/03/1982	JS	70	05	PD957
I150-157	18/03/1982	JS	70	05	P1350-431
I349-366	21/07/1982	03	70	05	PD000-046
I439-446	06/12/1983	03	70	05	PD045-060
I447-457	08/12/1983	03	70	05	PD005-025
I455-464	19/12/1984	03	70	05	PD045-045
I465-475	20/12/1984	03	70	05	PD002-025

EASTERN SHORE STATIONS MADE WITH A 30° SEMI-BALLOON
 TRAWL WITH VARYING CONFIGURATIONS

30° UNLINED SEMI-BALLOON TRAWL (10)

F 15- 19	22/03/1966	PA	10	10	ES	-
F 20- 21	11/04/1966	PA	10	10	ES	-
F467-468	11/04/1966	PA	10	10	ES	-
F 33- 36	12/04/1966	PA	10	10	ES	-
F469-477	12/04/1966	PA	10	10	ES	-
F 37- 41	03/05/1966	PA	10	10	ES	-
F 42- 43	04/05/1966	PA	10	10	ES	-
F 65- 71	25/05/1966	PA	10	10	ES	-
F 79- 85	14/06/1966	PA	10	10	ES	-
F 87- 88	14/06/1966	PA	10	10	ES	-
F478	14/06/1966	PA	10	10	ES	-
F 95- 97	16/06/1966	PA	10	10	ES	-
F 98-100	05/07/1966	PA	10	10	ES	-
F101-105	06/07/1966	PA	10	10	ES	-
F113-114	06/07/1966	PA	10	10	ES	-
F115-117	07/07/1966	PA	10	10	ES	-
F251-252	14/07/1966	LA	10	15	ESW05-W06	
F287-292	09/08/1966	LA	10	15	ESW01-W06	
F329-334	07/09/1966	LA	10	15	ESW01-W06	
F118-119	08/09/1966	PA	10	10	ES	-
F368-373	11/10/1966	LA	10	15	ESW01-W06	
F120	19/10/1966	PA	10	10	ES	-
F405-409	10/11/1966	LA	10	15	ESW02-W06	
F404	11/11/1966	LA	10	15	ESW01	
F441-442	08/12/1966	LA	10	15	ESW01-W02	
F444-447	08/12/1966	LA	10	15	ESW03-W06	

MOBJACK BAY STATIONS MADE WITH A 30" SEMI-BALLOON TRAWL
-OF VARIOUS CONFIGURATIONS

30" UNLINED SEMI-BALLOON TRAWL (10)

F186	16/07/1970	PA	10	08	MJ	3
F188-189	16/07/1970	PA	10	08	MJ	1 - 2
F184	16/07/1970	PA	10	08	MN	2
F187	16/07/1970	PA	10	08	MS	1
F185	16/07/1970	PA	10	08	MW	2
F252	24/09/1970	PA	10	08	MJ	3
F250	24/09/1970	PA	10	08	MN	2
F253	24/09/1970	PA	10	08	MS	1
F251	24/09/1970	PA	10	08	MW	2
F309	06/11/1970	PA	10	08	MJ	3
F313-314	06/11/1970	PA	10	08	MJ	1 - 2
F310	06/11/1970	PA	10	08	MN	2
F312	06/11/1970	PA	10	08	MS	1
F311	06/11/1970	PA	10	08	MW	2
F 32	14/01/1971	PA	10	08	MJ	3
F 36- 37	14/01/1971	PA	10	08	MJ	1 - 2
F 33	14/01/1971	PA	10	08	MN	2
F 35	14/01/1971	PA	10	08	MS	1
F 34	14/01/1971	PA	10	08	MW	2
F100-101	10/03/1971	PA	10	08	MJ	1 - 2
F105	10/03/1971	PA	10	08	MJ	3
F104	10/03/1971	PA	10	08	MN	2
F102	10/03/1971	PA	10	08	MS	1
F103	10/03/1971	PA	10	08	MW	2
F156	05/05/1971	PA	10	08	MJ	3
F160-161	05/05/1971	PA	10	08	MJ	1 - 2
F157	05/05/1971	PA	10	08	MN	2
F159	05/05/1971	PA	10	08	MS	1
F158	05/05/1971	PA	10	08	MW	2

30" LINED SEMI-BALLOON TRAWL (33)

A183-194	30/01/1975	LA	33	25	MP030-044
A396-400	28/08/1975	LA	33	05	MP030-050
I112-117	18/01/1979	LA	33	25	MP274-277

PIANKATANK STATIONS MADE WITH A 30' SEMI-BALLOON
TRAWL WITH VARYING CONFIGURATIONS

30' UNLINED SEMI-BALLOON TRAWL (10)

F 15- 19	22/03/1966	PA	10	10	ES	-
F181-183	15/07/1970	PA	10	15	PK	1 - 3
F247-249	23/09/1970	PA	10	08	PK	1 - 3
F306-308	05/11/1970	PA	10	08	PK	1 - 3
F 29- 31	13/01/1971	PA	10	08	PK	1 - 3
F153-155	04/05/1971	PA	10	08	PK	1 - 3

APPENDIX B

STATIONS MADE IN CHESAPEAKE BAY WITH 16" TRAWLS
OF VARYING CONFIGURATIONS

16" LINED SEMI-BALLOON TRAWL (35)

I515-528	08/07/1975	RE	35	05	C5012-031
I549-558	09/07/1975	RE	35	05	C5001-017
I388-397	06/07/1976	RE	35	05	C5017-018
I429-443	07/07/1976	RE	35	05	C5001-028
I525-529	20/07/1977	BR	35	05	C1243-249
I552-573	21/07/1977	BR	35	05	C1181-232
I619-624	27/07/1977	BR	35	05	C1167-176
I577	11/07/1978	JS	35	05	C1244

STATIONS MADE IN YORK RIVER WITH 16" TRAWLS
OF VARIOUS CONFIGURATIONS

-16" UNLINED SEMI-BALLOON TRAWL (09)
F308-315 16/05/1972 RE 09 05 YKN10-S10

16" LINED SEMI-BALLOON TRAWL (35)

L701-722	08/04/1971	BR	35	05	YKST -ST
L723-737	01/06/1971	BR	35	05	YKST -ST
L738-748	23/06/1971	BR	35	05	YKST -ST
L749-761	24/06/1971	BR	35	05	YKST -ST
L762-772	06/07/1971	BR	35	05	YKST -ST
L782	09/07/1971	BR	35	05	YKST
F255-262	26/07/1971	BR	35	05	YKN10-S10
F274-298	29/07/1971	BR	35	05	YKST -ST
F329-336	16/08/1971	RE	35	05	YKN10-S10
F348-353	18/08/1971	RE	35	05	YKST -ST
F354-372	19/08/1971	RE	35	05	YKST -ST
F403-420	20/09/1971	RE	35	05	YKST -ST
F421-429	21/09/1971	RE	35	05	YKS10-ST
F430-435	22/09/1971	RE	35	05	YKST -ST
F477-494	18/10/1971	RE	35	05	YKST -ST
F495-502	19/10/1971	RE	35	05	YKN10-S10
F503-504	20/10/1971	RE	35	05	YKST -ST
F516-520	28/10/1971	RE	35	05	YKST -ST
F561-568	11/11/1971	RE	35	05	YKN10-S10
F569-583	22/11/1971	RE	35	05	YKST -ST
F584-593	23/11/1971	RE	35	05	YKST -ST
F624-641	20/12/1971	RE	35	05	YKST -ST
F642-648	21/12/1971	RE	35	05	YKST -ST
F660-667	23/12/1971	RE	35	05	YKN10-S10
F 30- 47	18/01/1972	RE	35	05	YKST -ST
F 48- 54	19/01/1972	RE	35	05	YKST -ST
F 66- 73	24/01/1972	RE	35	05	YKN10-S10
F101-111	15/02/1972	RE	35	05	YKST -ST
F116-125	16/02/1972	RE	35	05	YKS10-ST
F126-134	17/02/1972	RE	35	05	YKST -ST
F144-146	24/02/1972	RE	35	05	YKST -ST
F178-186	14/03/1972	RE	35	05	YKST -ST
F187-196	15/03/1972	RE	35	05	YKS10-ST
F197-210	16/03/1972	RE	35	05	YKST -ST
F260-267	19/04/1972	BR	35	05	YKN10-S10
F356-363	20/05/1972	RE	35	05	YKN10-S10
F373-391	18/07/1972	RE	35	05	YKS71-S92
F392-407	19/07/1972	RE	35	05	YKC35-N53
F408-412	20/07/1972	RE	35	05	YKN92-S11
F413-417	21/07/1972	RE	35	05	YKS11-S13
F476-495	22/08/1972	RE	35	05	YKN68-S16
F498-516	23/08/1972	RE	35	05	YKC25-N3
F517-522	24/08/1972	RE	35	05	YKS11-S54
F523-540	28/09/1972	BR	35	05	YKS60-S98

F550-563	02/10/1972	BR	35	05	YKC77-S20
F564-576	03/10/1972	BR	35	05	YKN94-S16
F577-581	16/10/1972	RE	35	05	YKS12-S12
F582-590	17/10/1972	RE	35	05	YKN38-S8
F591-605	18/10/1972	RE	35	05	YKC14-N71
F606-621	19/10/1972	RE	35	05	YKC16-S69
F631-642	15/11/1972	RE	35	05	YKN39-N90
F643-658	16/11/1972	RE	35	05	YKC56-S11
F659-663	17/11/1972	RE	35	05	YKC82-C85
F664-665	20/11/1972	RE	35	05	YKN17-N57
F667-675	20/11/1972	RE	35	05	YKC36-S95
F666	28/11/1972	RE	35	05	YKN48
F685-702	12/12/1972	RE	35	05	YKC3 -S81
F703	13/12/1972	RE	35	05	YKS16
F704-716	14/12/1972	RE	35	05	YKN94-S69
F717-729	19/12/1972	RE	35	05	YKS34-S99
F201-207	08/01/1973	RE	35	05	YKN60-N88
F208-214	09/01/1973	RE	35	05	YKN19-N26
F215-230	10/01/1973	RE	35	05	YKC35-S80
F231-245	11/01/1973	RE	35	05	YKC11-S1
F264-273	06/02/1973	RE	35	05	YKN5 -S16
F274-286	07/02/1973	RE	35	05	YKN37-N92
F287-299	08/02/1973	RE	35	05	YKC15-S5
F300-307	09/02/1973	RE	35	05	YKS13-S44
F699	19/03/1973	RE	35	05	YKM20
F308-310	29/03/1973	BR	35	05	YKN88-S95
F311-318	30/03/1973	BR	35	05	YKN31-S72
F319-329	10/04/1973	RE	35	05	YKS10-S14
F339-349	17/04/1973	BR	35	05	YKC72-N60
F350-362	18/04/1973	BR	35	05	YKC62-N69
F363-374	19/04/1973	BR	35	05	YKC40-C75
F375-385	15/05/1973	RE	35	05	YKS14-S71
F386-404	16/05/1973	RE	35	05	YKC86-S46
F405-419	17/05/1973	RE	35	05	YKS56-S70
F490-499	12/06/1973	RE	35	05	YKC9 -S92
F500-508	13/06/1973	RE	35	05	YKC10-N74
F509-519	14/06/1973	RE	35	05	YKC49-S15
F520-534	15/06/1973	RE	35	05	YKN52-S93
F535-548	09/07/1973	RE	35	05	YKN52-S16
F549-563	10/07/1973	RE	35	05	YKC24-S15
F564-573	11/07/1973	RE	35	05	YKMN6-MS1
F574-583	12/07/1973	RE	35	05	YKPN1-PS5
F584-599	13/07/1973	RE	35	05	YKN31-S7
F600-615	06/08/1973	RE	35	05	YKN68-S13
F616-631	07/08/1973	RE	35	05	YKN28-S42
F632-642	08/08/1973	RE	35	05	YKN30-PS9
F643-652	09/08/1973	RE	35	05	YKMS2-MS5
F653-664	10/08/1973	RE	35	05	YKN66-S77
F665	14/09/1973	RE	35	05	YKE35
F666-681	17/09/1973	RE	35	05	YKE20-F20
F682-693	18/09/1973	RE	35	05	YKF13-G12
F694-698	19/09/1973	RE	35	05	YKG11-M11
F700-706	19/09/1973	RE	35	05	YKM21-M22
F707-720	20/09/1973	RE	35	05	YKG30-P10

F721-734	21/09/1973	RE	35	05	YKF11-G31
F735-743	24/09/1973	RE	35	05	YKE31-F35
F744-751	10/10/1973	BR	35	05	YKOE3-OE3
F753-754	10/10/1973	BR	35	05	YKOE1-OE2
F752	11/10/1973	BR	35	05	YKOE3
F755-769	11/10/1973	BR	35	05	YKOE3-OF1
F847	13/10/1973	RE	35	05	YKOG3
F770-773	15/10/1973	BR	35	05	YKOF1-OF2
F774-786	16/10/1973	BR	35	05	YKOG1-OM1
F871	16/10/1973	RE	35	05	YKOP2
F787-799	17/10/1973	BR	35	05	YKOG3-OP2
F800-812	18/10/1973	BR	35	05	YKOF3-OG1
F813-822	19/10/1973	BR	35	05	YKOE3-OF2
F891	20/10/1973	RE	35	05	YKOF3
F893	20/10/1973	RE	35	05	YKOF1
F900	20/10/1973	RE	35	05	YKOE3
F823-834	08/11/1973	RE	35	05	YKOE1-OE2
F836-837	08/11/1973	RE	35	05	YKOE1-OE1
F835	09/11/1973	RE	35	05	YKOE1
F838-846	13/11/1973	RE	35	05	YKOE1-OG3
F848	13/11/1973	RE	35	05	YKOG3
F849-852	14/11/1973	RE	35	05	YKOG1-OG1
F853-864	15/11/1973	RE	35	05	YKOM1-OM2
F865-870	16/11/1973	RE	35	05	YKOP1-OP2
F872-876	16/11/1973	RE	35	05	YKOP2-OP3
F877-890	20/11/1973	RE	35	05	YKOF3-OG1
F892	20/11/1973	RE	35	05	YKOF1
F894-899	20/11/1973	RE	35	05	YKOE1-OF2
F901	20/11/1973	RE	35	05	YKOE2
F902-912	04/12/1973	RE	35	05	YKE21-G31
F913-925	05/12/1973	RE	35	05	YKG11-M31
F926-940	06/12/1973	RE	35	05	YKG10-G20
F941-953	07/12/1973	RE	35	05	YKF33-G30
F954-968	10/12/1973	RE	35	05	YKE23-E30
F980	12/12/1973	RE	35	05	YKE11
F401-414	08/01/1974	RE	35	05	YKE23-G11
F415-427	09/01/1974	RE	35	05	YKG11-M12
F428-440	10/01/1974	RE	35	05	YKG30-P31
F441-456	11/01/1974	RE	35	05	YKF32-G20
F457-469	17/01/1974	RE	35	05	YKE31-F33
F470-479	18/01/1974	RE	35	05	YKE10-E34
F480-492	01/02/1974	RE	35	05	YKE12-E37
F493-510	04/02/1974	RE	35	05	YKE32-G12
F511-523	05/02/1974	RE	35	05	YKG11-M32
F524-537	06/02/1974	RE	35	05	YKG20-P10
F538-551	07/02/1974	RE	35	05	YKE11-G30
F552-558	08/02/1974	RE	35	05	YKE37-F12
F559-567	11/03/1974	RE	35	05	YKE11-E22
F568-571	13/03/1974	RE	35	05	YKE21-F13
F572-579	14/03/1974	RE	35	05	YKE12-E23
F580-589	18/03/1974	RE	35	05	YKF20-G12
F590-601	19/03/1974	RE	35	05	YKM10-M31
F602-613	20/03/1974	RE	35	05	YKP11-P32
F614-627	21/03/1974	RE	35	05	YKF30-G31

F628-633	22/03/1974	RE	35	05	YKE22-E34
I639	14/07/1975	RE	35	05	YK34
I640-642	14/07/1975	RE	35	05	YM1 -3
I636-638	14/07/1975	RE	35	05	YP1 -3
I659-691	15/07/1975	BR	35	05	YK25 -33
I706-756	16/07/1975	BR	35	05	YK13 -25
I757-778	17/07/1975	BR	35	05	YK09 -11
A382-384	25/08/1975	RE	35	05	YP001-003
I718-737	20/07/1976	RE	35	05	YK001-041
I776-790	21/07/1976	BR	35	05	YK051-065
I795-814	22/07/1976	BR	35	05	YK035-040
I815-831	26/07/1976	BR	35	05	YK021-055
I842-856	28/07/1976	BR	35	05	YK003-032
I229-240	06/07/1977	RE	35	05	YK170-296
I266-280	07/07/1977	RE	35	05	YK253-317
I294-299	08/07/1977	RE	35	05	YK089-326
I309-313	11/07/1977	RE	35	05	YK010-014
I330-344	12/07/1977	RE	35	05	YK328-342
I373-389	13/07/1977	RE	35	05	YK341-356
I409-423	14/07/1977	RE	35	05	YM357-360
I450-452	15/07/1977	RE	35	05	YK314-341
I443-449	15/07/1977	RE	35	05	YP054-139
I598-608	18/07/1978	TD	35	05	YK294-297
I626-637	19/07/1978	TD	35	05	YK186-253
I659-664	20/07/1978	TD	35	05	YK053-205
I654-658	20/07/1978	TD	35	05	YP138-262
I684-693	21/07/1978	TO	35	05	YK107-355
I694-705	24/07/1978	TD	35	05	YM357-360
I150-159	01/05/1980	JS	35	05	YK005-025
I160-161	01/05/1980	JS	35	05	YP030-030

RAPPAHANNOCK STATIONS MADE WITH A 16" TRAWL
WITH VARYING CONFIGURATIONS

16" LINED SEMI-BALLOON TRAWL (35)

A411-423	03/09/1975	BR	35	05	RA003-010
A431-439	04/09/1975	BR	35	05	RA001-070
I506-525	12/07/1976	RE	35	05	RA007-027
I591-611	14/07/1976	RE	35	05	RA033-106
I637-656	15/07/1976	RE	35	05	RA033-035
I674-696	19/07/1976	RE	35	05	RA011-025
I697-717	20/07/1976	RE	35	05	RA002-080
I752-775	21/07/1976	RE	35	05	RA003-068
I198-207	05/07/1977	BR	35	05	RA679-687
I241-256	06/07/1977	BR	35	05	RA121-132
I281-293	07/07/1977	BR	35	05	RA114-668
I345-362	12/07/1977	BR	35	05	RA576-664
I390-408	13/07/1977	BR	35	05	RA435-619
I424-442	14/07/1977	BR	35	05	RA426-548
I453-461	15/07/1977	BR	35	05	RA034-415
I462-478	18/07/1977	BR	35	05	RA025-261
I495-512	19/07/1977	BR	35	05	RA020-495
I518-527	07/07/1978	JS	35	05	RA701-814
I549-560	10/07/1978	JS	35	05	RA118-638
I576	11/07/1978	JS	35	05	RA536
I744-772	27/07/1978	TD	35	05	RA305-409
I773-792	28/07/1978	TD	35	05	RA362-508
I793-801	31/07/1978	TD	35	05	RA001-002

JAMES RIVER STATIONS MADE WITH 16' TRAWLS
OF VARIOUS CONFIGURATIONS

-16 FT LINED SEMI-BALLOON TRAWL

A323-325	05/03/1975	BR	35	07	JE001-003
A326-328	06/03/1975	BR	35	05	JH001-003
A329-332	06/03/1975	BR	35	05	JN001-004
A333-335	06/03/1975	BR	35	07	JP001-003
A336-338	07/03/1975	BR	35	05	JW001-003
I802-804	23/07/1975	BR	35	05	JE1 -3
I800-801	23/07/1975	BR	35	05	JH1 -2
I805	23/07/1975	BR	35	05	JH3
I823-826	23/07/1975	BR	35	05	JN1 -4
I827	23/07/1975	BR	35	05	JP1
I829	23/07/1975	BR	35	05	JP3
I831	23/07/1975	BR	35	05	JW2
I828	27/07/1975	BR	35	05	JP2
A339-353	18/08/1975	BR	35	05	JA002-065
A362-365	19/08/1975	BR	35	05	JTI01-ID4
A385-388	26/08/1975	BR	35	05	JC001-010
A389-390	27/08/1975	BR	35	05	JAGC1-GC2
A391-395	27/08/1975	BR	35	05	JP001-004
A403-408	28/08/1975	BR	35	05	JA002-002
A401-402	28/08/1975	BR	35	05	JW001-002
I352-354	01/03/1976	RE	35	05	JE001-003
I349-351	01/03/1976	RE	35	05	JH001-003
I355-359	02/03/1976	RE	35	05	JN001-002
I360-362	02/03/1976	RE	35	05	JW001-003
I363-368	03/03/1976	RE	35	05	JBB01-804
I369-371	03/03/1976	RE	35	05	JP001-003
I398-412	06/07/1976	BR	35	05	JA009-016
I444-459	07/07/1976	BR	35	05	JA045-147
I469-485	08/07/1976	BR	35	05	JA054-060
I526-545	12/07/1976	BR	35	05	JA075-162
I553-575	13/07/1976	BR	35	05	JA038-136
I612-636	14/07/1976	BR	35	05	JA002-185
I657-673	15/07/1976	BR	35	05	JA003-027
I859-861	30/09/1976	RE	35	05	JP001-003
I857-858	30/09/1976	RE	35	05	JW001-002
I866-867	01/10/1976	RE	35	05	JH001-002
I862-865	01/10/1976	RE	35	05	JN001-004
I870	04/10/1976	RE	35	05	JE003
I161-163	21/03/1977	RE	35	25	JH001-002
I164-166	22/03/1977	RE	35	25	JE001-003
I167-170	24/03/1977	RE	35	25	JN001-004
I174-179	28/03/1977	RE	35	25	JBB01-806
I171-173	28/03/1977	RE	35	25	JP001-003
I180-182	29/03/1977	RE	35	25	JW001-003
I479-494	19/07/1977	RE	35	05	JA446-510
I513-524	20/07/1977	RE	35	05	JA208-551
I530-551	21/07/1977	RE	35	05	JA040-760
I574-595	22/07/1977	RE	35	05	JA757-899

I596-609	26/07/1977	RE	35	05	JA310-323
I610-618	27/07/1977	RE	35	05	JA484-815
I625-639	28/07/1977	RE	35	05	JA534-942
I640-649	29/07/1977	RE	35	05	JA093-972
I654-659	01/08/1977	RE	35	05	J1000-031
I650-653	01/08/1977	RE	35	05	JA352-499
I660-667	01/08/1977	RE	35	05	JA994-995
I685	02/08/1977	RE	35	05	J1048
I668-684	02/08/1977	RE	35	05	JA115-339
I697-702	03/08/1977	RE	35	05	J1063-071
I707	03/08/1977	RE	35	05	J1050
I686-696	03/08/1977	RE	35	05	JA134-137
I703-705	03/08/1977	RE	35	05	JA130-359
I337-339	06/03/1978	BR	35	05	JH001-003
I355-357	07/03/1978	BR	35	05	JE001-003
I358-361	10/03/1978	BR	35	05	JN001-004
I366-368	13/03/1978	BR	35	05	JW001-003
I369-371	14/03/1978	BR	35	05	JP001-003
I372-377	15/03/1978	BR	35	05	JBB01-806
I378-379	26/06/1978	RE	35	01	J1123-124
I383-388	26/06/1978	RE	35	05	J1161-178
I380-382	26/06/1978	RE	35	05	JA159-170
I389-390	26/06/1978	RE	35	05	05 JA154-155
I393-398	27/06/1978	RE	35	05	J1239-250
I391-392	27/06/1978	RE	35	05	JA153-180
I399-401	28/06/1978	RE	35	05	J1117-246
I403-404	28/06/1978	RE	35	05	J1238-243
I411-412	28/06/1978	RE	35	05	J1114-131
I402	28/06/1978	RE	35	05	JA175
I413	28/06/1978	RE	35	05	JA398
I405-410	28/06/1978	RE	35	05	JX001-008
I416	29/06/1978	RE	35	05	J1111
I418	29/06/1978	RE	35	05	J1106
I421-423	29/06/1978	RE	35	05	J1102-227
I426	29/06/1978	RE	35	05	J1099
I414-415	29/06/1978	RE	35	05	JA150-151
I417	29/06/1978	RE	35	05	JA147
I419-420	29/06/1978	RE	35	05	JA391-394
I424-425	29/06/1978	RE	35	05	JA144-385
I427	29/06/1978	RE	35	05	JA384
I428-429	30/06/1978	RE	35	05	J1194-222
I433	30/06/1978	RE	35	05	J1096
I430-432	30/06/1978	RE	35	05	JA383-507
I434-441	30/06/1978	RE	35	05	JA135-138
I488-500	06/07/1978	RE	35	05	JC001-045
I594-596	17/07/1978	RE	35	05	J 535-537
I586	17/07/1978	RE	35	05	J1051
I590-593	17/07/1978	RE	35	05	J1082-093
I597	17/07/1978	RE	35	05	J1040
I587-589	17/07/1978	RE	35	05	JA358-361
I609-625	19/07/1978	RE	35	05	JA354-494
I638-653	20/07/1978	RE	35	05	JA813-944
I665-683	21/07/1978	RE	35	05	JA080-762
I706-720	25/07/1978	RE	35	05	JA305-458

I721-743	26/07/1978	RE	35	05	JA001-544
I802-805	01/08/1978	TD	35	05	JN001-004
I806-816	02/08/1978	TD	35	05	JE002-019
I817-828	03/08/1978	TD	35	05	JE022-037
I340-345	27/02/1979	RE	35	05	JE001-022
I350-353	28/02/1979	RE	35	05	JN001-004
I376-391	01/03/1979	RE	35	05	JE002-013
I411-413	07/03/1979	RE	35	05	JP001-003
I414-416	07/03/1979	RE	35	05	JW001-003
I430-442	08/03/1979	RE	35	05	JC041-056
I443	09/03/1979	RE	35	05	JC025
I444-445	12/03/1979	RE	35	05	J1242-248
I447-450	12/03/1979	RE	35	05	J1234-245
I446	12/03/1979	RE	35	05	JA184
I451	12/03/1979	RE	35	05	JA176
I556-559	18/07/1979	RE	35	05 25	JE001-203
I560-564	19/07/1979	RE	35	05 25	JE002-303

-16 FT 2 SEAM BALLOON TRAWL, LINED (67)

I367-370	13/07/1982	03	67		JE024-080
I371-379	16/08/1982	03	67	05	JE071-085
I462-470	23/09/1982	03	67	05	JE024-050
I504-513	14/10/1982	JS	67	05	JE024-050
I555-562	18/11/1982	03	67	05	JE024-050
I590-599	09/12/1982	03	67	05	JE024-050
I 25- 31	18/01/1983	03	67		JE001-080
I 33	18/01/1983	03	67	05	JE050
I 32	28/01/1983	03	67	05	JE049
I 58- 66	15/02/1983	03	67	05	JE024-089

PIANKATANK STATIONS MADE WITH A 16" TRAWL
WITH VARYING CONFIGURATIONS

16" LINED SEMI-BALLOON TRAWL (35)

F190-193	20/07/1970	SK	35	05	PK 4 - 7
F218-221	09/09/1970	SK	35	08	PK 4 - 7
F295-298	03/11/1970	SK	35	08	PK 4 - 7
F 10- 13	06/01/1971	SK	35	08	PK 4 - 7
F113-119	12/03/1971	SK	35	08	PK 1 - 7
F195-198	18/05/1971	SK	35	08	PK 4 - 7

MOBJACK BAY STATIONS MADE WITH VARIOUS 16" TRAWLS
OF VARIOUS CONFIGURATIONS"

16" UNLINED SEMI-BALLOON TRAWL (9)

F299-302	15/05/1972	RE	09	05	ME	1 - 5
F297-298	15/05/1972	RE	09	05	MJ	1 - 2
F303	15/05/1972	RE	09	05	MJ	3
F304-307	15/05/1972	RE	09	05	MW	1 - 4

16" LINED SEMI-BALLOON TRAWL (35)

F162-164	09/07/1970	BR	35	08	ME	1 - 3
F160-161	09/07/1970	BR	35	08	MJ	5 - 6
F165-167	10/07/1970	BR	35	08	MN	1 - 3
F168	13/07/1970	BR	35	08	MJ	4
F169-170	13/07/1970	BR	35	08	MS	2 - 3
F171-173	13/07/1970	BR	35	08	MW	1 - 4
F257-259	24/09/1970	IN	35	08	ME	1 - 3
F254-256	24/09/1970	IN	35	08	MJ	2 - 5
F260-262	24/09/1970	IN	35	08	MN	1 - 4
F263-264	24/09/1970	IN	35	08	MW	3 - 4
F268-269	25/09/1970	IN	35	08	MJ	4 - 6
F265-266	25/09/1970	IN	35	08	MS	2 - 3
F267	25/09/1970	IN	35	08	MW	1
F325-327	11/11/1970	IN	35	08	ME	1 - 2
F324	11/11/1970	IN	35	08	MJ	5
F328-330	11/11/1970	IN	35	08	MN	1 - 4
F331-332	11/11/1970	IN	35	08	MW	3 - 4
F336-337	12/11/1970	IN	35	08	MJ	4 - 6
F333-334	12/11/1970	IN	35	08	MS	2 - 3
F335	12/11/1970	IN	35	08	MW	1
F 43	20/01/1971	BK	35	08	MJ	4
F 38- 39	20/01/1971	BK	35	08	MS	2 - 3
F 40- 42	20/01/1971	BK	35	08	MW	1 - 4
F 47- 49	21/01/1971	8K	35	08	ME	1 - 3
F 50- 51	21/01/1971	BK	35	08	MJ	5 - 6
F 44- 46	21/01/1971	8K	35	08	MN	1 - 4
F 85- 87	05/03/1971	BR	35	08	ME	1 - 3
F 84	05/03/1971	BR	35	08	MJ	5
F 88- 90	05/03/1971	BR	35	08	MN	1 - 4
F 91- 93	05/03/1971	BR	35	08	MW	1 - 4
F 96- 97	08/03/1971	BR	35	08	MJ	4 - 6
F 94- 95	08/03/1971	BR	35	08	MS	2 - 3
F181-182	12/05/1971	RE	35	08	MN	3 - 4
F183-184	12/05/1971	RE	35	08	MW	3 - 4
F186	13/05/1971	RE	35	08	ME	3
F185	13/05/1971	RE	35	08	MJ	5
F187-188	17/05/1971	RE	35	08	ME	1 - 2
F193-194	17/05/1971	RE	35	08	MJ	4 - 6
F189	17/05/1971	RE	35	08	MN	1
F191-192	17/05/1971	RE	35	08	MS	2 - 3

F190	17/05/1971	RE	35	08	MW	1
F268-271	28/07/1971	BR	35	05	ME	1 - 2
F267	28/07/1971	BR	35	05	MJ	3
F272-273	28/07/1971	BR	35	05	MJ	1 - 2
F263-266	28/07/1971	BR	35	05	MW	1 - 4
F337-340	17/08/1971	RE	35	05	ME	1 - 5
F341-342	17/08/1971	RE	35	05	MW	3 - 4
F345-347	18/08/1971	RE	35	05	MJ	1 - 3
F343-344	18/08/1971	RE	35	05	MW	1 - 2
F436-438	22/09/1971	RE	35	05	ME	2 - 5
F444	23/09/1971	RE	35	05	ME	1
F443	23/09/1971	RE	35	05	MJ	3
F445-446	23/09/1971	RE	35	05	MJ	1 - 2
F439-442	23/09/1971	RE	35	05	MW	1 - 4
F505	20/10/1971	RE	35	05	ME	5
F511-513	21/10/1971	RE	35	05	ME	1 - 2
F510	21/10/1971	RE	35	05	MJ	3
F514-515	21/10/1971	RE	35	05	MJ	1 - 2
F506-509	21/10/1971	RE	35	05	MW	1 - 4
F550-552	09/11/1971	RE	35	05	MJ	1 - 3
F553	09/11/1971	RE	35	05	MW	1
F557-560	10/11/1971	RE	35	05	ME	1 - 5
F554-556	10/11/1971	RE	35	05	MW	2 - 4
F649-650	21/12/1971	RE	35	05	MJ	1 - 2
F651-652	21/12/1971	RE	35	05	MW	1 - 3
F656-659	22/12/1971	RE	35	05	ME	1 - 5
F655	22/12/1971	RE	35	05	MJ	3
F653-654	22/12/1971	RE	35	05	MW	2 - 4
F 55- 58	19/01/1972	RE	35	05	ME	1 - 5
F 59	19/01/1972	RE	35	05	MW	3
F 63- 65	20/01/1972	RE	35	05	MJ	1 - 3
F 60- 62	20/01/1972	RE	35	05	MW	1 - 4
F 95- 96	14/02/1972	RE	35	05	ME	3 - 5
F 94	14/02/1972	RE	35	05	MJ	3
F 90- 93	14/02/1972	RE	35	05	MW	1 - 4
F 97- 98	15/02/1972	RE	35	05	ME	1 - 2
F 99-100	15/02/1972	RE	35	05	MJ	1 - 2
F169-172	13/03/1972	RE	35	05	ME	1 - 5
F167-168	13/03/1972	RE	35	05	MJ	1 - 2
F173	13/03/1972	RE	35	05	MJ	3
F174-177	13/03/1972	RE	35	05	MW	1 - 4
F254-257	18/04/1972	BR	35	05	ME	1 - 2
F253	18/04/1972	BR	35	05	MJ	3
F258-259	18/04/1972	BR	35	05	MJ	1 - 2
F249-252	18/04/1972	BR	35	05	MW	1 - 4
F347-350	19/06/1972	RE	35	05	ME	1 - 5
F345-346	19/06/1972	RE	35	05	MJ	1 - 2
F351	19/06/1972	RE	35	05	MJ	3
F352-355	19/06/1972	RE	35	05	MW	1 - 4
F364-367	17/07/1972	RE	35	05	ME	1 - 5
F368	17/07/1972	RE	35	05	MJ	3
F369-372	17/07/1972	RE	35	05	MW	1 - 4
F462-465	21/08/1972	RE	35	05	ME	1 - 5
F466	21/08/1972	RE	35	05	MJ	3

F467-470	21/08/1972	RE	35	05	MW 1 - 4
F541-544	29/09/1972	BR	35	05	ME 1 - 5
F545	29/09/1972	BR	35	05	MJ 3
F546-549	29/09/1972	BR	35	05	MW 1 - 3
F622-625	13/11/1972	RE	35	05	ME 1 - 5
F626	13/11/1972	RE	35	05	MJ 3
F627-630	13/11/1972	RE	35	05	MW 1 - 4
F676-679	11/12/1972	RE	35	05	ME 1 - 5
F680	11/12/1972	RE	35	05	MJ 3
F681-684	11/12/1972	RE	35	05	MW 1 - 4
F246-249	16/01/1973	RE	35	05	ME 1 - 5
F250	16/01/1973	RE	35	05	MJ 3
F251-254	16/01/1973	RE	35	05	MW 1 - 4
F255-258	05/02/1973	RE	35	05	ME 1 - 5
F259	05/02/1973	RE	35	05	MJ 3
F260-263	05/02/1973	RE	35	05	MW 1 - 4
F330-333	12/04/1973	RE	35	05	ME 1 - 5
F334	12/04/1973	RE	35	05	MJ 3
F335-338	12/04/1973	RE	35	05	MW 1 - 4
F420-423	18/05/1973	RE	35	05	ME 1 - 5
F424	18/05/1973	RE	35	05	MJ 3
F425-428	18/05/1973	RE	35	05	MW 1 - 4
F481-484	11/06/1973	RE	35	05	ME 1 - 5
F485	11/06/1973	RE	35	05	MJ 3
F486-489	11/06/1973	RE	35	05	MW 1 - 4
I832-836	27/07/1976	BR	35	05	MB100-200

16" LINED TWO-SEAM TRAWL (67)

I498-503	13/10/1982	03	67	05	MBW00-W02
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EASTERN SHORE STATIONS MADE WITH A 16" SEMI-BALLOON
TRAWL WITH VARYING CONFIGURATIONS

16" UNLINED SEMI-BALLOON TRAWL (09)

F 75- 80	04/04/1967	IN	09	15	ES001-006
F153-158	12/05/1966	RE	09	10	ESW01-W06
F204-209	08/06/1966	RE	09	10	ESW01-W06
F 3- 4	05/01/1967	EB	09	15	ES001-002
F 6- 8	05/01/1967	EB	09	15	ES004-006

APPENDIX C

GEAR CODES USED IN THE VIMS TRAWL SURVEY

Gear Code	Door Size	Thread Types	Tick Chan	Brid Lgth	Trwl Type	Trwl Size	Mesh Size	Bag Mesh	Liner Mesh
9	24" X 12"	Cot	W/O TICK	UN	SB	16'	1-1/2"	1-1/4"	UNLINE
10	48" X 22"	Cot	W/O TICK	30'	SB	30'	1-1/2"	1-1/4"	UNLINE
33	48" X 22"	Cot	W/O TICK	30'	SB	30'	1-1/2"	1-1/4"	L 1/2"
35	24" X 12"	Cot	W/O TICK	UN	SB	16'	1-1/2"	1-1/4"	L 1/2"
43	48" X 22"	Cot	WITHTICK	30'	SB	30'	1-1/2"	1-1/4"	UNLINE
67	24" X 12"	Nyl	W/O TICK	UN	2S	16'	1-1/2"	1-1/4"	L 1/2"
68	54" X 25"	Nyl	WITHTICK	30'	SB	30'	1-1/2"	1-1/4"	L 1/2"
70	54" X 25"	Nyl	WITHTICK	60'	SB	30'	1 1/2"	1-1/4"	L 1/4"
80	54" X 25"	Nyl	W/O TICK	60'	SB	30'	1 1/2"	1-1/4"	L 1/4"
81	54" X 25"	Nyl	WITHTICK	90'	SB	30'	1 1/2"	1-1/4"	L 1/4"

APPENDIX D
VESSEL CODES USED IN THE VIMS TRAWL SURVEY

ALPHA CODE	NUMERIC CODE	VESSEL NAME	OAL	HULL	TYPE
BR	07	W.K.Brooks	30'	Wood	Launch
EM		Edith Mae	16'	Wood	Launch
IN		Investigator	28'	Wood	Launch
IV		Irma Virginia	65'	Wood	Trawler
JA	14	Judith Ann		Wood	Launch
JS	03	Captain John Smith	28'	FGlass	Launch *
	17	Langley II	44'	FGlass	Launch
LA	02	Langley	80'	Steel	Ferry Boat
OB		Observer	27'	Wood	Launch
PA	01	Pathfinder	55'	Wood	Trawler
RE	05	Restless	36'	Wood	Launch
SJ	15	Sally Jean		Wood	Launch
TD	13	Three Daughters		Wood	Launch
VL	06	Virginia Lee	35'	Wood	launch
	18	Capt John Smith NEW	42'	FGlass	Launch *

* Code 18 refers to this vessel with a new larger engine, and increased power.