

CENTRAL MARINE FISHERIES RESEARCH INSTITUTE

OCEANOGRAPHIC STATION LIST

PREFACE

EVER since the inception of the Central Marine Fisheries Research Institute, oceanographical observations have been carried out from various centres along the coasts of India. But these investigations have been restricted to the near shore waters and oceanographic investigations *sensu stricto* were started only in the later part of the year 1957. A beginning was made with M. O. *Kristensen* a trawler which was converted into a research vessel and placed at the disposal of the Institute by the Indo-Norwegian Project. The first cruise was on 16-9-1957 in the south-west coast of India. In the same year the vessel was replaced by one of the sister vessels R. V. *Kalava*. This vessel worked till the end of April 1961 and from December 1961 the Indo-Norwegian Project made available a new Research Vessel *Varuna*, designed and constructed for carrying out oceanographic investigations-cum-exploratory fishing in tropical waters. With this, it has been possible not only to intensify the programme but also to cover a greater area.

The vast amount of data that have so far been collected are being processed and several publications have already appeared in various Scientific Journals, but it was felt that apart from the processed material that is published from time to time it is necessary to make available to interested organisations and individuals the raw data collected during these cruises. It was, therefore, decided to bring out a serial publication *Oceanographic Station List* and the present one is the first of the series. Stations 1 to 82 were operated from M. O. *Kristensen* and 83 to 673 from R. V. *Kalava*. This publication, it is earnestly hoped, will be useful to the Scientists working in the various disciplines of oceanography including meteorology both in India and elsewhere.

I would like to place on record my high appreciation of the work done by the staff of this Institute and our gratitude to the Indo-Norwegian Project for affording the facilities which made this work possible.

MANDAPAM CAMP,
17-7-1963.

DR. S. JONES,
Director,
Central Marine Fisheries
Research Institute.

Vessel: M. O. KRISTENSEN

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
1	16-9-1957	2311-2320	09° 00' N	76° 25' E	17	0	22.80
						10	22.41
						20	22.27
2	17-9-1957	0010-0030	09° 00' N	76° 22' E	37	0	22.80
						10	22.09
						20	22.68
						30	21.24
3	17-9-1957	0805-0817	09° 00' N	76° 17' E	52	0	24.90
						10	23.78
						20	22.94
						30	21.87
						50	20.76
4	17-9-1957	0900-0922	09° 00' N	76° 12' E	55	0	25.50
						10	24.41
						20	21.75
						30	21.51
						50	18.95
5	17-9-1957	1007-1030	09° 00' N	76° 07' E	58	0	27.30
						10	24.60
						20	23.34
						30	21.46
						50	20.19
6	17-9-1957	1117-1153	09° 00' N	76° 02' E	93	0	28.00
						10	22.82
						20	21.64
						30	20.89
						50	19.14
						85	18.55
7	17-9-1957	1235-1347	09° 00' N	75° 57' E	272	0	..
						10	25.91
						20	20.89
						30	25.35
						50	22.04
						75	20.60
						100	19.17
						200	17.18
250	14.38						
						11.94	

NOTE.—(1) Maximum depth.

(2) Depth of sampling.

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34-99	..	NW	Smooth	..	..	..
35-05	..	"	"
35-03	..	"	"
34-94	..	2	Smooth	..	..	..
35-23	..	"	"
35-19	..	"	"
35-28	..	"	"
35-14	..	3	2	..	..	..
35-16	..	"	"
35-13	..	"	"
35-04	..	"	"
35-09	..	"	"
35-02	..	2	2	..	..	..
35-22	..	"	"
35-26	..	"	"
34-99	..	"	"
34-95	..	"	"
34-94	..	2	2	..	..	..
34-90	..	"	"
35-09	..	"	"
35-00	..	"	"
34-96	..	"	"
34-92	..	2	2	..	..	..
35-07	..	"	"
35-04	..	"	"
35-05	..	"	"
34-98	..	"	"
34-88	..	"	"
35-01	..	"	"
35-44	..	NW2	2	..	..	..
35-54	..	"	"
35-36	..	"	"
35-38	..	"	"
35-47	..	"	"
35-36	..	"	"
35-28	..	"	"
35-26	..	"	"
35-37	..	"	"
35-30	..	"	"

Vessel: M. O. KRISTENSEN

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
8	17- 9-1957	1515-1625	09° 00' N	75° 47' E	340	0	28.10
						10	26.41
						20	24.65
						30	21.95
						50	20.24
						75	19.30
						100	17.89
						150	15.35
						200	13.66
						300	11.23
9	17- 9-1957	1800-1915	09° 00' N	75° 37' E	368	0	26.80
						10	26.64
						20	23.65
						30	22.41
						50	20.36
						75	19.74
						100	18.32
						150	15.67
						200	13.90
						300	11.86
10	17- 9-1957	2045-2345	09° 10' N	75° 35' E	>520	0	26.30
						10	26.53
						20	22.41
						30	21.17
						50	19.80
						75	19.74
						100	17.88
						150	15.92
						200	14.56
						300	11.86
11	18- 9-1957	0115-0300	09° 10' N	75° 45' E	>500	0	26.50
						10	24.62
						20	21.35
						30	20.57
						50	20.00
						75	19.46
						100	18.96
150	16.28						
200	13.89						

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35-74	..	NW2	2	..	..	..
35-37	..	"	"
35-55	..	"	"
35-42	..	"	"
35-25	..	"	"
35-22	..	"	"
35-21	..	"	"
35-29	..	"	"
35-34	..	"	"
35-32	..	"	"
35-84	..	NW3	2	..	..	..
35-06	..	"	"
35-40	..	"	"
35-46	..	"	"
35-25	..	"	"
35-34	..	"	"
35-24	..	"	"
35-32	..	"	"
35-26	..	"	"
35-34	..	"	"
35-34	..	"	"
34-79	..	NW3	2-3	..	..	..
35-77	..	"	"
35-59	..	"	"
35-42	..	"	"
35-37	..	"	"
35-24	..	"	"
35-24	..	"	"
35-33	..	"	"
35-53	..	"	"
35-52	..	"	"
35-44	..	"	"
35-51	..	"	"
34-81	..	NW (Rain)	3	..	..	..
35-45	..	"	"
35-64	..	"	"
35-35	..	"	"
35-30	..	"	"
35-29	..	"	"
35-25	..	"	"
35-35	..	"	"
35-61	..	"	"

Vessel: M. O. KRISTENSEN

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						300	12.07
						400	10.78
						500	10.34
12	18- 9-1957	0430-0505	09° 10' N	75° 55' E	>500	0	26.80
						10	25.04
						20	21.82
						30	21.03
						50	20.39
						75	19.47
						100	18.54
13	18- 9-1957	0547-0617	09° 10' N	76° 00' E	81	0	26.00
						10	23.16
						20	21.42
						30	21.18
						50	20.19
						75	18.49
14	18- 9-1957	0700-0750	09° 10' N	76° 05' E	64	0	25.90
						10	23.09
						20	23.30
						30	22.00
						50	20.86
15	18- 9-1957	0815-0900	09° 10' N	76° 10' E	52	0	26.00
						10	22.30
						20	21.09
						30	20.30
						50	20.02
16	18- 9-1957	0950-1005	09° 10' N	76° 15' E	38	0	26.90
						10	22.67
						20	21.94
						30	21.09
17	18- 9-1957	1145-1205	09° 20' N	76° 17' E	18	0	25.40
						10	22.62
						15	22.25
18	18- 9-1957	1335-1350	09° 20' N	76° 12' E	36	0	26.80
						10	22.64
						20	22.11
						30	19.49

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
36-08	..	NW (Rain)	3	..	..	..
35-79	..	"	"
35-55	..	"	"
34-67	..	NW3 (Rain)	3	..	..	..
34-61	..	"	"
34-78	..	"	"
34-72	..	"	"
34-71	..	"	"
34-72	..	"	"
34-69	..	"	"
34-55	..	NN2	2	..	..	..
34-73	..	"	"
34-75	..	"	"
34-70	..	"	"
34-76	..	"	"
34-70	..	"	"
34-52	..	NN2	2	..	..	..
34-69	..	"	"
34-77	..	"	"
34-76	..	"	"
34-79	..	"	"
..	..	NW3	2-3	..	..	..
..	..	"	"
..	..	"	"
..	..	"	"
..	..	"	"
34-97	..	NW2	2	Horizontal	..	..
34-99	..	"	"
34-85	..	"	"
34-70	..	"	"
34-75	..	N2	2	..	..	..
34-70	..	"	"
34-70	..	"	"
34-70	..	W2	2	..	..	..
34-79	..	"	"
34-77	..	"	"
34-74	..	"	"

Vessel: M. O. KRISTENSEN

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
19	18- 9-1957	1433-1445	09° 20' N	76° 07' E	54	0	26.70
						10	22.00
						20	21.33
						30	20.33
						50	20.16
20	18- 9-1957	1543-1604	09° 20' N	76° 02' E	64	0	27.60
						10	23.88
						20	22.63
						30	21.66
						50	19.96
21	18- 9-1957	1647-1720	09° 20' N	75° 57' E	82	0	26.80
						10	23.40
						20	21.08
						30	20.74
						50	20.34
22	18- 9-1957	1730-1830	09° 19' N	75° 52' E	150	0	27.10
						10	26.34
						20	23.09
						30	20.54
						50	19.99
23	18- 9-1957	2015-2122	09° 18' N	75° 42' E	365	0	27.10
						10	26.08
						20	21.73
						30	20.70
						50	19.77
24	18- 9-1957	2305-0055	09° 17' N	75° 32' E	> 500	0	27.80
						10	27.51
						20	25.74
						30	21.75
						50	20.15
						75	19.39
						100	17.73

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.57	..	NW2	2	..	..	..
34.70	..	"	"
35.07	..	"	"
35.03	..	"	"
34.92	..	"	"
34.47	..	NW3	3	..	..	..
34.61	..	"	"
34.78	..	"	"
34.94	..	"	"
34.79	..	"	"
34.12	..	NW3	2-3	..	..	..
34.75	..	"	"
34.96	..	"	"
34.86	..	"	"
34.90	..	"	"
35.00	..	"	"
34.47	..	NW3	2	..	..	..
34.49	..	"	"
34.94	..	"	"
34.99	..	"	"
35.01	..	"	"
35.06	..	"	"
34.91	..	"	"
33.90	..	NW4	3	..	..	..
34.30	..	"	"
35.15	..	"	"
35.18	..	"	"
35.28	..	"	"
35.19	..	"	"
35.21	..	"	"
35.10	..	"	"
35.23	..	"	"
35.19	..	"	"
35.25	..	NW4	3	..	..	..
35.25	..	"	"
35.74	..	"	"
35.26	..	"	"
35.05	..	"	"
35.09	..	"	"
35.02	..	"	"

Vessel: M. O. KRISTENSEN

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						150	15.98
						200	14.50
						300	11.94
						400	10.93
						500	10.43
25	19-9-1957	0245-0443	09° 27' N	75° 32' E	>500	0	27.50
						10	26.33
						20	25.17
						30	21.55
						50	20.57
						75	18.09
						100	17.07
						150	15.98
						200	14.19
						300	11.97
						400	10.94
						500	10.44
26	19-9-1957	0630-0745	09° 25' N	75° 42' E	360	0	27.00
						10	26.63
						20	22.82
						30	20.93
						50	20.19
						75	19.46
						100	18.92
						150	16.08
						200	13.82
						300	11.59
27	19-9-1957	0830-0945	09° 25' N	75° 47' E	338	0	26.90
						10	25.00
						20	22.34
						30	20.81
						50	20.27
						75	19.63
						100	19.23
						150	16.05
						200	14.16
						300	..
28	19-9-1957	1050-1116	09° 24' N	75° 52' E	92	0	26.50
						10	25.11
						20	21.49

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35·10	..	NW4	3	..	..	..
35·11	..	"	"
35·23	..	"	"
35·22	..	"	"
35·22	..	"	"
35·23	..	NW4	3	..	..	..
35·64	..	"	"
..	..	"	"
35·34	..	"	"
35·19	..	"	"
35·05	..	"	"
34·94	..	"	"
35·07	..	"	"
35·28	..	"	"
35·16	..	"	"
35·34	..	"	"
35·37	..	"	"
35·16	..	NW4	4	..	..	..
35·23	..	"	"
35·62	..	"	"
35·44	..	"	"
35·14	..	"	"
35·21	..	"	"
35·41	..	"	"
35·34	..	"	"
35·21	..	"	"
35·28	..	"	"
34·60	..	NW4	3	..	..	..
34·81	..	"	"
35·35	..	"	"
35·25	..	"	"
35·01	..	"	"
34·99	..	"	"
34·92	..	"	"
34·54	..	"	"
34·90	..	"	"
35·50	..	"	"
35·56	..	NW4	4	..	..	..
34·63	..	"	"
35·34	..	"	"

Vessel: M. O. KRISTENSEN

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						30	20.84
						50	20.38
						75	19.84
29	19-9-1957	1154-1215	09° 24' N	75° 58' E	66	0	25.40
						10	24.63
						20	23.82
						30	22.47
						50	20.53
30	19-9-1957	1305-1316	09° 23' N	76° 03' E	60	0	26.50
						10	23.01
						20	21.92
						30	21.70
						50	19.95
31	19-9-1957	1412-1422	09° 23' N	76° 08' E	43	0	26.40
						10	22.27
						20	21.71
						30	21.40
32	19-9-1957	1500-1512	09° 22' N	76° 13' E	26	0	26.00
						10	22.63
						20	21.85
33	5-10-1957	0020-0038	08° 45' N	76° 39' E	28	0	26.20
						10	24.23
						20	24.18
34	5-10-1957	0210-0135	08° 45' N	76° 34' E	43	0	26.10
						10	25.82
						20	23.25
						30	22.57
35	5-10-1957	0225-0235	08° 45' N	76° 28' E	51	0	26.90
						10	24.98
						20	23.10
						30	22.36
36	5-10-1957	0325-0339	08° 45' N	76° 23' E	55	0	26.80
						10	25.78
						20	24.42
						30	22.98
						50	21.94
37	5-10-1957	0420-0450	08° 45' N	76° 18' E	63	0	26.40
						10	25.85

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35·10	..	NW4	4	..	..	..
35·16	..	"	"
35·12	..	"	"
34·54	..	NW3	3	..	..	..
34·70	..	"	"
34·72	..	"	"
35·01	..	"	"
35·39	..	"	"
34·58	..	NW3	2	..	..	..
35·17	..	"	"
35·27	..	"	"
35·20	..	"	"
35·20	..	"	"
34·83	..	WN3	3	..	..	..
35·12	..	"	"
35·10	..	"	"
35·09	..	"	"
34·94	..	NW3	2	..	..	..
35·08	..	"	"
35·16	..	"	"
35·14	..	NW2	2	..	..	..
35·25	..	"	"
35·28	..	"	"
35·27	..	NW2	1-2	..	..	..
35·28	..	"	"
35·12	..	"	"
35·30	..	"	"
35·17
35·46
35·35
35·28
35·46
35·59
35·43
35·35
35·34
35·32	..	NW2	2	..	..	..
35·33	..	"	"

Vessel: M. O. KRISTENSEN

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						20	24.03
						30	22.91
						50	21.62
38	5-10-1957	0537-0557	08° 45' N	76° 13' E	..	0	27.30
						10	26.05
						20	24.67
						30	22.75
						50	21.34
39	5-10-1957	0700-0710	08° 45' N	76° 07' E	79	0	27.10
						10	27.58
						20	25.38
						30	22.38
						50	21.09
						75	20.75
40	5-10-1957	0845-0927	08° 45' N	75° 58' E	378	0	28.40
						10	28.15
						20	27.87
						30	24.81
						50	22.22
						75	19.97
						100	18.80
						150	15.87
						200	13.61
						300	11.67
41	5-10-1957	1130-1237	08° 45' N	75° 48' E	372	0	29.10
						10	28.26
						20	28.19
						30	28.17
						50	24.32
						75	20.86
						100	19.12
						150	16.78
						200	14.34
						300	11.81
42	5-10-1957	1410-1520	08° 45' N	75° 38' E	372	0	29.60
						10	28.28
						20	28.26
						30	27.26
						50	22.18
						75	19.60

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35-46	..	NW2	2	..	..	..
35-52	..	"	"
35-34	..	"	"
35-50	..	NW2	2	..	..	..
35-46	..	"	"
35-57	..	"	"
35-43	..	"	"
35-25	..	"	"
35-44	..	SW2	1	..	..	..
35-44	..	"	"
35-75	..	"	"
35-44	..	"	"
35-50	..	"	"
35-34	..	"	"
35-34	..	SW1	2	..	..	..
35-39	..	"	"
35-66	..	"	"
35-90	..	"	"
35-57	..	"	"
35-17	..	"	"
35-37	..	"	"
35-16	..	"	"
35-30	..	"	"
35-25	..	"	"
35-34	..	W2	1	..	..	..
35-30	..	"	"
35-26	..	"	"
35-57	..	"	"
35-50	..	"	"
35-43	..	"	"
35-32	..	"	"
34-99	..	"	"
35-19	..	"	"
35-23	..	"	"
35-08	..	W2	1	..	..	..
35-26	..	"	"
35-28	..	"	"
35-70	..	"	"
35-32	..	"	"
35-07	..	"	"

Vessel: M. O. KRISTENSEN

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						100	18.31
						150	16.70
						200	13.84
						300	11.61
43	5-10-1957	1700-1807	08° 38' N	75° 49' E	407	0	28.90
						10	28.25
						20	28.17
						30	25.15
						50	22.23
						75	20.32
						100	18.44
						150	16.58
						200	14.55
						300	11.96
						400	10.94
44	5-10-1957	1940-2120	08° 32' N	76° 00' E	>500	0	28.80
						10	28.19
						20	27.64
						30	25.00
						50	22.11
						75	22.10
						100	19.74
						150	16.70
						200	16.72
						300	11.65
						400	10.88
						500	10.40
45	5/6-10-1957	1155-1215	08° 32' N	76° 10' E	>200	0	28.20
						10	27.94
						20	27.41
						30	25.55
						50	21.79
						75	20.52
						100	19.23
						150	16.67
						200	15.01
46	6-10-1957	0145-0205	08° 32' N	76° 20' E	70	0	27.50
						10	26.74
						20	24.45
						30	21.88
						50	21.53

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34-72	..	W2	1	..	..	..
35-03	..	"	"
35-07	..	"	"
35-05	..	"	"
35-25	..	NW3	2	..	..	..
35-46	..	"	"
35-35	..	"	"
35-88	..	"	"
35-53	..	"	"
35-16	..	"	"
35-10	..	"	"
35-14	..	"	"
35-16	..	"	"
35-10	..	"	"
35-07	..	"	"
35-25	..	2	1	..	..	..
35-25	..	"	"
35-48	..	"	"
35-52	..	"	"
35-17	..	"	"
35-10	..	"	"
35-17	..	"	"
34-99	..	"	"
35-01	..	"	"
35-26	..	"	"
35-05	..	"	"
34-96	..	"	"
35-19
35-39
35-32
35-52
34-96
35-10
34-94
35-35
35-07
..
35-12
35-26
35-10
35-21

Vessel: M. O. KRISTENSEN

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
47	6-10-1957	0245-0307	08° 32' N	76° 25' E	76	0	28.00
						10	26.99
						20	26.03
						30	24.36
						50	21.34
48	6-10-1957	0355-0418	08° 33' N	76° 30' E	76	0	27.10
						10	26.75
						20	26.03
						30	24.15
						50	21.92
49	6-10-1957	0458-0517	08° 33' N	76° 34' E	60	0	27.00
						10	25.20
						20	23.61
						30	22.70
						50	22.03
50	6-10-1957	0602-0625	08° 33' N	76° 39' E	55	0	26.90
						10	24.84
						20	23.80
						30	23.49
						50	22.46
51	6-10-1957	0710-0722	08° 34' N	76° 43' E	45	0	26.90
						10	24.81
						20	24.04
						30	22.98
52	6-10-1957	0805-0813	08° 34' N	76° 48' E	23	0	25.80
						10	25.11
						20	23.52
53	6-10-1957	1230-1240	08° 15' N	77° 05' E	24	0	25.90
						10	23.20
						20	23.09
54	6-10-1957	1325-1335	08° 15' N	77° 00' E	46	0	26.50
						10	24.31
						20	23.88
						30	22.97
55	6-10-1957	1415-1430	08° 15' N	76° 55' E	54	0	26.50
						10	24.60

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35-35
35-16
35-35
35-30
35-12
35-44	..	NW2	3	..	..	..
..	..	"	"
35-32	..	"	"
35-26	..	"	"
35-35	..	"	"
35-34	..	W3	2-3	..	..	..
34-99	..	"	"
35-39	..	"	"
35-25	..	"	"
35-28	..	"	"
35-28	..	NNE4	3	..	..	..
..	..	"	"
35-10	..	"	"
35-25	..	"	"
35-30	..	"	"
35-37	..	1	1	..	..	..
35-21	..	"	"
35-19	..	"	"
35-14	..	"	"
35-10	..	0			..	..
35-07	..	"		
35-17	..	"		
35-10	..	SW2	2	..	..	..
35-14	..	"	"
35-17	..	"	"
35-14	..	3	1-2	..	..	..
35-03	..	"	"
35-25	..	"	"
35-08	..	"	"
35-14	2	..	..	..
35-12	"

Vessel: M. O. KRISTENSEN

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						20	23.94
						30	23.28
						50	22.85
56	6-10-1957	1520-1530	08° 15' N	76° 50' E	64	0	27.20
						10	25.79
						20	25.01
						30	24.66
						50	22.56
57	6-10-1957	1615-1647	08° 15' N	76° 45' E	63	0	27.80
						10	27.36
						20	25.19
						30	24.36
						50	22.40
58	6-10-1957	1720-1735	08° 15' N	76° 40' E	79	0	27.90
						10	26.44
						20	25.48
						30	24.83
						50	22.60
						75	22.14
59	6-10-1957	1900-1922	08° 15' N	76° 35' E	116	0	27.22
						10	26.28
						20	26.28
						30	25.41
						50	21.97
						75	21.30
						100	20.78
60	6-10-1957	2040-2300	08° 15' N	76° 30' E	>300	0	28.40
						10	28.26
						20	27.53
						30	27.23
						50	22.56
						75	20.74
						100	19.18
						150	17.25
						200	14.54
						300	11.79
61	7-10-1957	0030-0200	08° 15' N	76° 22' E	>500	0	28.50
						10	28.42
						20	28.19
						30	26.78

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35-14	2	..	..	..
35-19	"
35-10	"
35-12	..	W3	2	..	..	..
35-26	..	"	"
35-25	..	"	"
35-08	..	"	"
35-12	..	"	"
34-94
35-16
35-28
35-34
35-10
35-17	..	NE3	3	..	..	..
35-34	..	"	"
35-35	..	"	"
35-32	..	"	"
35-14	..	"	"
35-12	..	"	"
35-43	..	SW5	3	..	..	..
35-21	..	"	"
35-26	..	"	"
35-21	..	"	"
35-53	..	"	"
34-88	..	"	"
34-88	..	"	"
35-10	..	W5	4	..	..	..
35-07	..	"	"
35-21	..	"	"
35-32	..	"	"
35-03	..	"	"
35-05	..	"	"
34-78	..	"	"
34-79	..	"	"
34-92	..	"	"
35-05	..	"	"
35-08	..	W4	3	..	..	..
35-14	..	"	"
35-21	..	"	"
35-50	..	"	"

Vessel: M. O. KRISTENSEN

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						50	23.05
						75	20.63
						100	19.65
						150	17.35
						200	14.70
						300	12.24
						400	10.98
						500	10.24
62	7-10-1957	0407-0522	08° 15' N	76° 12' E	>500	0	28.30
						10	28.35
						20	28.05
						30	27.53
						50	23.20
						75	21.15
						100	18.53
						150	16.03
						200	14.50
						300	12.08
						400	10.99
						500	10.25
63	7-10-1957	0800-0945	08° 00' N	76° 24' E	>500	0	28.50
						10	28.27
						20	28.26
						30	26.64
						50	23.32
						75	20.36
						100	19.67
						150	17.15
						200	14.96
						300	11.99
						400	11.01
						500	10.34
64	7-10-1957	1107-1250	08° 00' N	76° 34' E	>500	0	28.20
						10	28.12
						20	27.43
						30	25.61
						50	21.48
						75	20.82
						100	18.54
						150	17.14
						200	14.90
						300	11.89

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35-23	..	W4	3	..	..	..
35-07	..	"	"
34-85	..	"	"
34-99	..	"	"
35-01	..	"	"
35-12	..	"	"
35-41	..	"	"
35-24	..	"	"
35-34	..	W4	3	..	..	..
35-33	..	"	"
35-58	..	"	"
35-98	..	"	"
35-52	..	"	"
35-34	..	"	"
35-10	..	"	"
35-00	..	"	"
34-99	..	"	"
35-37	..	"	"
34-97	..	"	"
35-18	..	"	"
35-32
35-46
35-21
35-32
35-30
34-96
35-05
35-10
34-88
35-08
35-61
35-25
35-17	..	W4	3	..	..	..
35-23	..	"	"
35-25	..	"	"
35-35	..	"	"
35-03	..	"	"
35-01	..	"	"
34-88	..	"	"
34-94	..	"	"
34-97	..	"	"
34-96	..	"	"

Vessel: M. O. KRISTENSEN

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						400	10.94
						500	10.42
65	7-10-1957	1410-1445	08° 00' N	76° 45' E	100	0	28.20
						10	28.06
						20	27.71
						30	26.51
						50	23.23
						75	21.97
66	7-10-1957	1513-1532	08° 00' N	76° 50' E	82	0	28.10
						10	27.94
						20	27.44
						30	25.15
						50	22.69
						75	21.92
67	7-10-1957	1605-1625	08° 00' N	76° 55' E	..	0	28.30
						10	27.75
						20	27.44
						30	26.38
						50	23.13
68	7-10-1957	1705-1730	08° 00' N	77° 05' E	..	0	27.50
						10	27.17
						20	25.82
						30	23.83
						50	22.80
69	7-10-1957	1820-1846	08° 00' N	77° 05' E	59	0	27.20
						10	26.88
						20	24.92
						30	24.42
						50	22.86
70	7-10-1957	1920-1947	08° 00' N	77° 10' E	56	0	26.50
						10	26.63
						20	26.46
						30	24.61
						50	22.92
71	7-10-1957	2020-2037	08° 00' N	77° 15' E	50	0	26.10
						10	25.44
						20	25.06
						30	25.05

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35-03	..	W4	3	..	..	..
34-99	..	"	"
35-21	..	W4	3	..	..	..
35-23	..	"	"
35-21	..	"	"
35-28	..	"	"
35-16	..	"	"
35-03	..	"	"
35-21	..	WSW4	3	..	..	..
35-23	..	"	"
35-44	..	"	"
35-37	..	"	"
35-32	..	"	"
35-19	..	"	"
35-48
35-37
35-43
35-34
35-28
35-46
35-50
35-37
35-28
35-26
35-50
35-46
35-43
35-34
35-25
34-79	..	SW4	3	..	..	..
34-78	..	"	"
34-66	..	"	"
34-87	..	"	"
34-85	..	"	"
34-74	..	SW4	Moderate	..	..	..
34-88	..	"	"
34-87	..	"	"
34-84	..	"	"

Vessel: M. O. KRISTENSEN

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
72	7-10-1957	2118-1240	08° 00' N	77° 20' E	48	0	26.10
						10	25.64
						20	25.42
						30	25.21
73	7-10-1957	2300-2320	07° 52' N	77° 14' E	57	0	26.40
						10	26.26
						20	25.83
						30	25.52
74	8-10-1957	0050-0115	07° 44' N	77° 08' E	70	0	27.80
						10	27.74
						20	26.69
						30	25.36
75	8-10-1957	0210-0230	07° 41' N	77° 05' E	84	0	27.80
						10	27.30
						20	26.95
						30	25.42
76	8-10-1957	0315-0340	07° 37' N	77° 02' E	101	0	27.80
						10	27.86
						20	27.52
						30	25.99
77	8-10-1957	0435-0455	07° 32' N	76° 58' E	120	0	28.10
						10	27.81
						20	27.49
						30	25.76
78	8-10-1957	0500-0528	07° 28' N	76° 55' E	131	0	28.80
						10	27.86
						20	27.82
						30	26.75
						50	24.43
						75	20.97
						100	20.06

Vessel: M. O. KRISTENSEN

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
79	8-10-1957	0710-0747	07° 25' N	76° 52' E	158	0	28.00
						10	27.82
						20	27.67
						30	26.88
						50	23.45
						75	20.93
						100	19.21
80	8-10-1957	0900-1002	07° 18' N	76° 47' E	> 500	0	28.00
						10	27.82
						20	27.81
						30	27.55
						50	24.30
						75	21.71
						100	19.55
						150	15.95
						200	14.27
						300	12.17
81	8-10-1957	1225-1339	07° 35' N	76° 41' E	> 500	0	28.10
						10	27.87
						20	27.82
						30	26.92
						50	23.31
						75	20.54
						100	19.55
						150	16.83
						200	15.02
						300	11.93
82	8-10-1957	1546-1606	07° 46' N	76° 53' E	90	0	28.20
						10	28.17
						20	27.71
						30	25.31
						50	22.64
						75	21.55

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
..	..	WNW4	4	..	..	..
..
..
..
..
..
..
35.43	..	WSW5	4	..	..	..
34.76
34.90
35.01
34.92
34.99
34.90
34.70
34.81
34.78
34.90
34.87
35.25	..	WNW5	3-4	..	..	..
34.85
34.99
35.07
35.05
34.88
34.99
34.61
34.70
34.81
34.78
34.74
34.92	..	WNW4	3	..	..	..
35.01
35.01
34.92
34.88
35.01

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
83	12-11-1957	1605-1620	10° 00' N	76° 07' E	22	0	31.10
						10	28.95
						20	28.40
84	12-11-1957	1705-1733	10° 00' N	76° 02' E	34	0	30.40
						10	28.70
						20	28.49
						30	28.20
85	12-11-1957	1815-1830	10° 00' N	75° 57' E	40	0	29.60
						10	28.35
						20	28.40
						30	28.00
86	12-11-1957	1915-1930	10° 00' N	75° 52' E	49	0	27.20
						10	28.16
						20	28.51
						30	28.27
87	12-11-1957	2016-2031	10° 00' N	75° 47' E	60	0	27.50
						10	28.64
						20	28.43
						30	28.27
						50	28.76
88	12-11-1957	2117-2147	10° 00' N	75° 42' E	79	0	26.90
						10	28.30
						20	28.36
						30	28.15
						50	28.09
						75	26.89
89	12-11-1957	2230-2255	10° 00' N	75° 37' E	119	0	29.10
						10	28.58
						20	28.21
						30	28.18
						50	28.15
						75	26.54
						100	22.77
90	13-11-1957	0015-0140	10° 00' N	75° 26' E	>500	0	28.90
						10	28.48
						20	28.23
						30	28.41
						50	28.09
						75	27.03

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
30.59	..	Calm	Calm	..	..	..
34.09	..	"	"
34.51	..	"	"
32.12	..	NNW	..	..	..	..
34.49	..	"
34.51	..	"
34.79	..	"
33.75
34.74
34.85
34.88
34.65	3	..	..	..
35.08	"
35.14	"
35.16	"
35.17	..	3	3	..	..	..
35.28	..	"	"
35.37	..	"	"
35.28	..	"	"
35.34	..	"	"
35.14	3	..	..	..
35.17	"
35.21	"
35.34	"
35.52	"
35.39	"
35.17	3	..	..	..
35.19	"
35.32	"
35.39	"
35.53	"
35.34	"
35.26	"
35.28
35.21
35.32
35.25
35.46
35.75

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						100	22.94
						150	18.07
						200	14.82
						300	12.05
						400	11.04
						500	10.52
91	13-11-1957	0315-0427	10° 00' N	75° 15' E	>500	0	29.10
						10	28.37
						20	28.32
						30	28.05
						50	27.96
						75	26.43
						100	22.23
						150	17.93
						200	14.95
						300	12.50
						400	11.27
						500	10.62
92	13-11-1957	0615-0705	10° 00' N	75° 04' E	>500	0	29.00
						10	28.26
						20	28.25
						30	28.21
						50	28.04
						75	26.98
						100	22.32
						150	17.43
						200	15.27
						300	12.66
						400	11.58
						500	10.87
93	13-11-1957	1005-1105	09° 45' N	75° 04' E	>500	0	29.20
						10	28.25
						20	28.23
						30	28.19
						50	27.67
						75	26.63
						100	23.45
						150	17.29
						200	16.69
						300	12.98
						400	11.39
						500	10.62

S ‰	O ₂ mL/l.	Wind	Sea	Plankton	B.T.	Remarks
35.50
35.08
35.26
35.34
35.30
35.34
34.85	..	NW2	3	..	..	..
34.96	..	"	"
34.97	..	"	"
35.01	..	"	"
35.19	..	"	"
35.53	..	"	"
35.23	..	"	"
34.84	..	"	"
34.92	..	"	"
35.10	..	"	"
35.16	..	"	"
35.02	..	"	"
34.81
34.90
35.25
35.14
35.25
35.24
35.16
34.96
35.07
35.08
35.12
35.07
35.01	..	W2	2	..	..	..
35.07	..	"	"
35.08	..	"	"
35.19	..	"	"
35.17	..	"	"
35.23	..	"	"
35.37	..	"	"
34.99	..	"	"
34.96	..	"	"
35.11	..	"	"
35.12	..	"	"
35.35	..	"	"

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
94	13-11-1957	1225-1330	09° 45' N	75° 15' E	>500		30.90
							28.46
							28.35
							28.19
							27.96
							25.98
							22.54
							18.27
							15.27
							12.35
							11.27
	10.57						
95	13-11-1957	1445-1555	09° 45' N	75° 26' E	580		30.10
							28.56
							28.42
							28.40
							27.84
							26.81
							22.49
							17.52
							13.85
							11.84
							11.11
	10.47						
96	13-11-1957	1715-1930	09° 45' N	75° 36' E	171		29.10
							28.35
							27.63
							28.32
							28.05
							24.29
							24.36
97	13-11-1957	2008-2025	09° 45' N	75° 41' E	114		29.10
							28.66
							28.42
							28.35
							27.84
							25.18
							22.15
98	13-11-1957	2100-2120	09° 45' N	75° 47' E	84		29.10
							28.80

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35.03	..	W2	2	..	..	..
34.99	..	"	"
35.09	..	"	"
35.03	..	"	"
35.34	..	"	"
35.64	..	"	"
35.26	..	"	"
34.88	..	"	"
34.96	..	"	"
35.12	..	"	"
35.08	..	"	"
35.01	..	"	"
34.85	..	W2	2	..	..	..
34.90	..	"	"
35.05	..	"	"
35.06	..	"	"
35.01	..	"	"
35.46	..	"	"
35.07	..	"	"
34.78	..	"	"
35.10	..	"	"
35.12	..	"	"
35.16	..	"	"
35.08	..	"	"
34.27	..	W2	2	..	..	..
34.92	..	"	"
34.99	..	"	"
35.12	..	"	"
35.01	..	"	"
35.39	..	"	"
35.43	..	"	"
35.26	..	"	"
34.97	..	W3	3	..	..	..
35.03	..	"	"
35.03	..	"	"
35.12	..	"	"
35.07	..	"	"
35.17	..	"	"
35.12	..	"	"
34.47	..	W3	3	..	..	..
34.97	..	"	"

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						20	28.50
						30	28.00
						50	27.52
						75	25.66
99	13-11-1957	2153-2205	09° 45' N	75° 52' E	66	0	29.10
						10	28.50
						20	28.27
						30	28.04
						50	27.82
100	13-11-1957	2247-2255	09° 45' N	75° 57' E	..	0	29.10
						10	28.61
						20	27.87
						30	28.02
						50	27.87
101	13-11-1957	2335-2345	09° 45' N	76° 02' E	48	0	29.00
						10	28.25
						20	28.20
						30	28.09
102	14-11-1957	0040-0050	09° 45' N	76° 07' E	28	0	29.20
						10	28.68
						20	28.60
103	22-11-1957	1205-1228	11° 30' N	35° 31' E	22	0	29.70
						10	29.00
						20	28.24
104	22-11-1957	1315-1324	11° 31' N	75° 26' E	40	0	29.60
						10	28.94
						20	28.53
						30	28.16
105	22-11-1957	1407-1438	11° 31' N	75° 21' E	42	0	29.20
						10	28.95
						20	28.70
						30	28.20
106	22-11-1957	1523-1536	11° 31' N	75° 15' E	48	0	29.10
						10	28.97
						20	28.89
						30	28.48
107	22-11-1957	1620-1642	11° 32' N	75° 11' E	57	0	29.50
						10	28.79

S %	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35-01	..	W3	3	..	..	..
35-08	..	"	"
35-08	..	"	"
35-19	..	"	"
34-83	..	W3	3	..	..	..
34-99	..	"	"
35-14	..	"	"
35-16	..	"	"
35-15	..	"	"
34-83	..	W3	3	..	..	..
35-07	..	"	"
34-97	..	"	"
35-07	..	"	"
35-03	..	"	"
34-90	..	N3	3	..	..	..
34-99	..	"	"
34-94	..	"	"
34-94	..	"	"
34-11	..	W3	3	..	..	..
34-67	..	"	"
34-78	..	"	"
33-53	..	W2	2	..	..	..
34-56	..	"	"
34-78	..	"	"
34-02	..	WW2	2	..	..	..
34-67	..	"	"
34-88	..	"	"
34-96	..	"	"
34-33	..	SW2	2	Horizontal	..	..
34-85	..	"	"
35-10	..	"	"
34-96	..	"	"
34-58	..	SW	2	..	..	..
34-78	..	"	"
34-99	..	"	"
35-03	..	"	"
34-38	..	W	2	Horizontal	..	..
34-78	..	"	"

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						20	28.49
						30	28.18
						50	27.63
108	22-11-1957	1725-1748	11° 32' N	75° 06' E	60	0	29.10
						10	28.98
						20	28.55
						30	28.20
						50	27.58
109	22-11-1957	1835-1855	11° 32' N 30" N	75° 01' E	65	0	29.10
						10	28.82
						20	28.18
						30	27.94
						50	27.69
110	22-11-1957	1925-1954	11° 33' N	74° 56' E	73	0	29.10
						10	28.97
						20	28.76
						30	28.33
						50	27.46
111	22-11-1957	2038-2117	11° 33' N	74° 51' E	91	0	29.10
						10	28.91
						20	29.01
						30	28.74
						50	28.62
						75	25.65
112	22-11-1957	2202-2256	11° 33' N 30" N	74° 45' E	141	0	29.00
						10	28.81
						20	28.83
						30	28.82
						50	28.44
						75	25.81
						100	23.65
113	23-11-1957	0055-0105	11° 34' N	74° 34' E	>500	0	29.00
						10	28.80
						20	28.68
						30	28.61
						50	28.22
						75	27.05
						100	23.56

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34·94	..	W	2	..	..	..
35·03	..	"	"
35·10	..	"	"
34·52	..	W3	2	Horizontal	..	..
34·78	..	"	"
35·08	..	"	"
35·14	..	"	"
35·28	..	"	"
34·72	..	W3	2	Horizontal	135 m	..
35·14	..	"	"
35·03	..	"	"
35·03	..	"	"
35·37	..	"	"
..	..	W3	3	Horizontal	135 m	..
35·30	..	"	"
35·34	..	"	"
35·21	..	"	"
..	..	"	"
35·17
35·30
35·39
35·39
37·30
..
35·23	Horizontal	135 m	..
25·30
35·34
35·37
35·53
35·37
35·21
34·99	..	NE3	3	Horizontal	135 m	..
35·10	..	"	"
35·30	..	"	"
35·35	..	"	"
35·43	..	"	"
35·71	..	"	"
35·50	..	"	"

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						150	16.09
						200	14.33
						300	11.86
						400	11.15
						500	10.80
114	23-11-1957	0345-0519	11°34' 30" N	74° 24' E	>500	0	28.90
						10	28.72
						20	28.66
						30	28.61
						50	27.83
						75	26.69
						100	22.83
						150	18.12
						200	16.07
						300	12.81
						400	11.67
						500	11.02
115	23-11-1957	0840-0900	11° 18' N	74° 27' E	>500	0	28.80
						10	28.65
						20	28.66
						30	28.23
						50	28.04
						75	25.63
						100	22.94
						150	18.55
						200	14.86
						300	12.64
						400	11.59
						500	10.99
116	23-11-1957	1030-1151	11° 19' N	74° 37' E	>500	0	28.90
						10	28.89
						20	28.79
						30	28.69
						50	28.00
						75	26.69
						100	23.87
						150	18.51
						200	15.09
						300	12.61
						400	11.56
						500	10.83

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35-17	..	NE3	3	..	..	..
35-21	..	"	"
35-26	..	"	"
35-30	..	"	"
35-30	..	"	"
35-39	..	NE3	3	..	..	..
35-14	..	"	"
35-28	..	"	"
35-03	..	"	"
35-64	..	"	"
35-71	..	"	"
35-55	..	"	"
35-28	..	"	"
35-08	..	"	"
35-10	..	"	"
35-25	..	"	"
35-19	..	"	"
35-07	..	S	3	Horizontal	130 m	..
35-03	..	"	"
35-19	..	"	"
35-23	..	"	"
35-37	..	"	"
35-61	..	"	"
35-44	..	"	"
35-41	..	"	"
35-14	..	"	"
35-35	..	"	"
35-17	..	"	"
35-16	..	"	"
35-05	..	N3	3	Horizontal	130 m	..
35-05	..	"	"
34-97	..	"	"
35-26	..	"	"
35-12	..	"	"
35-73	..	"	"
35-37	..	"	"
35-34	..	"	"
35-37	..	"	"
35-28	..	"	"
35-25	..	"	"
35-26	..	"	"

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
117	23-11-1957	1330-1420	11° 19' 30" N	74° 47' E	225	0	29.60
						10	28.79
						20	28.71
						30	28.36
						50	27.91
						75	26.36
						100	23.39
						150	19.23
118	23-11-1957	1017-1642	11° 20' N	74° 52' E	110	0	29.10
						10	28.70
						20	28.69
						30	28.70
						50	27.94
						75	26.05
						100	23.03
						119	23-11-1957	1756-1817	11° 21' N	74° 56' E	78	0	29.10
10	28.90						
20	28.66						
30	28.54						
50	28.82						
75	26.76						
120	23-11-1957	1901-1923	11° 21' N	75° 01' E	65	0	29.10
						10	29.17
						20	29.04
						30	28.91
						50	27.83
121	23-11-1957	2002-2023	11° 21' 30" N	75° 06' E	62	0	29.20
						10	29.19
						20	28.91
						30	28.22
						50	27.86
122	23-11-1957	2104-2124	11° 22' N	75° 11' 30" E	55	0	29.00
						10	28.60
						20	28.54
						30	28.28
						50	27.58

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35·16	..	N2	2	Horizontal	135 m	..
35·01	..	"	"
35·12	..	"	"
35·08	..	"	"
35·14	..	"	"
35·75	..	"	"
35·46	..	"	"
35·25	..	"	"
35·21	..	"	"
35·12
35·05
35·12
35·23
35·12
35·55
35·32
34·67	Horizontal	135 m	..
35·23
34·96
35·06
35·02
35·35
34·09	..	W2	2	Horizontal	135 m	..
34·78	..	"	"
35·23	..	"	"
35·16	..	"	"
35·17	..	"	"
34·00	Horizontal	135 m	..
34·67
35·01
34·99
35·12
34·23	Horizontal	135 m	..
34·58
34·87
34·94
35·16

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
123	23-11-1957	2203-2228	11° 22' 30" N	75° 16' E	47	0	29.10
						10	28.81
						20	28.73
						30	28.37
124	23-11-1957	2307-2316	11° 23' N	75° 21' E	44	0	29.10
						10	28.87
						20	28.75
						30	28.35
125	23-11-1957	2356-0005	11° 23' N	75° 26' E	38	0	29.30
						10	28.71
						20	28.52
						30	28.10
126	24-11-1957	0050-0059	11° 23' 30" N	75° 30' E	31	0	29.20
						10	29.03
						20	28.73
						30	28.97
127	24-11-1957	0142-0148	11° 24' N	75° 35' E	20	0	..
						10	28.70
						20	28.96
128	25-11-1957	1947-2005	11° 00' N	75° 47' E	19	0	29.20
						10	29.00
129	25-11-1957	2043-2055	11° 00' N	75° 41' E	31	0	29.50
						10	28.94
						20	29.00
130	25-11-1957	2138-2154	11° 00' N	75° 36' E	35	0	28.80
						10	29.05
						20	29.11
						30	29.24
131	25-11-1957	2238-2315	11° 00' N	75° 31' E	44	0	29.50
						10	29.05
						20	29.11
						30	27.61
132	26-11-1957	0000-0030	11° 00' N	75° 26' E	51	0	29.50
						10	29.14
						20	29.09
						30	28.88

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.43
34.63
34.90
34.85
34.49
34.72
34.89
34.97
34.45
34.56
34.83
34.90
34.33
34.60
34.65
34.94
..	..	NE3	2	..	..	..
..	..	"	"
..	..	"	"
34.43	..	W3	2	..	..	..
34.47	..	"	"
33.96	..	W×S	2	..	..	..
33.96	..	"	"
34.69	..	"	"
34.07	..	ESE3	2	..	..	..
34.04	..	"	"
34.60	..	"	"
35.10	..	"	"
33.95	..	3	2	..	..	..
33.96	..	"	"
34.81	..	"	"
34.00	..	"	"
34.07	..	W3	2	Horizontal	135 m	..
34.11	..	"	"
34.43	..	"	"
34.33	..	"	"

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
133	26-11-1957	0122-0147	10° 59' 30" N	75° 21' E	64	0	29.50
						10	29.00
						20	28.81
						30	28.64
						50	28.13
134	26-11-1957	0240-0308	11° 00' N	75° 16' 30" E	84	0	29.10
						10	28.65
						20	28.66
						30	28.78
						50	28.28
75	27.79						
135	26-11-1957	0354-0436	11° 00' N	75° 12' E	106	0	29.20
						10	28.64
						20	28.87
						30	28.91
						50	28.31
						75	28.05
100	27.99						
136	26-11-1957	0520-0615	11° 00' N	75° 07' E	190	0	29.00
						10	28.82
						20	28.90
						30	28.82
						50	28.41
						75	27.61
						100	24.25
150	16.63						
137	26-11-1957	0715-	11° 00' N	75° 02' E	> 500	0	29.10
						10	28.64
						20	28.64
						30	28.60
						50	27.93
						75	27.97
						100	25.41
						150	17.49
						200	14.89
						300	12.27
400	11.42						
500	10.77						

S ‰	O ₂ mL/l.	Wind	Sea	Plankton	B.T.	Remarks
34.14	..	SE3	3	..	135 m	..
34.04	..	"	"
34.38	..	"	"
34.70	..	"	"
35.07	..	"	"
34.34	..	SE3	3	Horizontal	135 m	..
34.45	..	"	"
34.70	..	"	"
35.10	..	"	"
35.30	..	"	"
35.25	..	"	"
34.65	..	SE3	3	Horizontal	..	..
34.56	..	"	"
34.83	..	"	"
34.99	..	"	"
34.85	..	"	"
35.28	..	"	"
35.48	..	"	"
34.97	2	..	..	..
34.85	"
35.08	"
35.07	"
35.37	"
35.23	"
35.61	"
35.14	"
34.92	..	E3	3	..	..	..
34.81	..	"	"
34.58	..	"	"
34.69	..	"	"
34.85	..	"	"
35.17	..	"	"
34.97	..	"	"
34.87	..	"	"
34.99	..	"	"
35.21	..	"	"
35.10	..	"	"
35.21	..	"	"

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
138	26-11-1957	1020-1125	11° 00' N	74° 52' E	..	0	29.00
						10	28.29
						20	28.46
						30	28.83
						50	28.26
						75	27.53
						100	24.00
						150	18.73
						200	14.84
						300	12.12
						400	11.40
500	10.79						
139	26-11-1957	1257-1325	11° 00' N	74° 41' 30" E	>500	0	28.80
						10	28.46
						20	28.54
						30	28.60
						50	28.86
						75	28.84
						100	28.73
						150	19.98
						200	15.26
						300	13.67
						400	11.66
500	..						
140	26-11-1957	1715-1817	10° 45' N	74° 50' E	>500	0	28.50
						10	28.29
						20	28.46
						30	28.42
						50	28.12
						75	26.91
						100	23.33
						150	19.74
						200	16.46
						300	12.37
						400	11.51
500	10.74						
141	26-11-1957	1955-2123	10° 45' N	75° 00' E	>500	0	28.20
						10	28.43
						20	28.40
						30	28.54
						50	28.44

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.52	..	SE3	3	Horizontal	135	..
34.67	..	"	"	"	"	..
34.70	..	"	"	"	"	..
35.01	..	"	"	"	"	..
35.17	..	"	"	"	"	..
35.25	..	"	"	"	"	..
35.82	..	"	"	"	"	..
35.30	..	"	"	"	"	..
35.46	..	"	"	"	"	..
35.20	..	"	"	"	"	..
35.07	..	"	"	"	"	..
35.17	..	"	"	"	"	..
34.92	..	SE3	3	..	..	..
34.76	..	"	"	"	"	..
34.70	..	"	"	"	"	..
34.34	..	"	"	"	"	..
34.96	..	"	"	"	"	..
35.39	..	"	"	"	"	..
35.48	..	"	"	"	"	..
35.34	..	"	"	"	"	..
34.88	..	"	"	"	"	..
35.10	..	"	"	"	"	..
35.12	..	"	"	"	"	..
..	..	"	"	"	"	..
34.81	..	SE3	3	Horizontal	135 m	..
34.70	..	"	"	"	"	..
35.12	..	"	"	"	"	..
35.10	..	"	"	"	"	..
35.21	..	"	"	"	"	..
35.21	..	"	"	"	"	..
35.37	..	"	"	"	"	..
35.57	..	"	"	"	"	..
35.32	..	"	"	"	"	..
35.17	..	"	"	"	"	..
35.43	..	"	"	"	"	..
35.19	..	"	"	"	"	..
34.60	..	SE3	2	..	135	..
34.47	..	"	"	"	"	..
34.67	..	"	"	"	"	..
34.70	..	"	"	"	"	..
35.14	..	"	"	"	"	..

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						75	26.99
						100	24.20
						150	19.37
						200	15.16
						300	12.25
						400	11.45
						500	10.65
142	26-11-1957	2307-0103	10° 45' N	75° 10' E	>500	0	29.00
						10	..
						20	28.55
						30	28.73
						50	28.24
						75	27.66
						100	25.71
						150	18.38
						200	14.96
						300	12.15
						400	11.26
						500	10.61
143	27-11-1957	0215-0257	10° 45' N	75° 15' E	188	0	28.40
						10	28.56
						20	28.73
						30	28.79
						50	28.42
						75	27.97
						100	26.22
						150	19.10
144	27-11-1957	0350-0425	10° 45' N	75° 20' E	114	0	28.30
						10	28.55
						20	28.55
						30	28.63
						50	27.97
						75	27.23
						100	25.23
145	27-11-1957	0515-0537	10° 45' N	75° 25' E	75	0	28.20
						10	28.56
						20	28.55
						30	28.63
						50	28.36

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35.14	..	SE3	2	..	..	..
35.39	..	"	"
35.14	..	"	"
34.99	..	"	"
35.17	..	"	"
35.21	..	"	"
35.23	..	"	"
34.58	..	SE3	3	..	..	..
34.52	..	"	"
34.63	..	"	"
34.78	..	"	"
35.14	..	"	"
35.19	..	"	"
35.46	..	"	"
35.10	..	"	"
35.05	..	"	"
35.19	..	"	"
35.21	..	"	"
35.16	..	"	"
34.61	..	NE4	3	Horizontal	135 m	..
34.56	..	"	"
34.58	..	"	"
34.78	..	"	"
35.50	..	"	"
35.46	..	"	"
35.52	..	"	"
35.19	..	"	"
35.08	..	NE2	3	..	..	..
34.63	..	"	"
34.51	..	"	"
35.10	..	"	"
34.63	..	"	"
36.00	..	"	"
34.51	..	"	"
34.63	..	SE2	2	..	..	..
34.60	..	"	"
34.67	..	"	"
34.60	..	"	"
34.97	..	"	"

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
146	27-11-1957	0630-0704	10° 45' N	75° 30' E	60	0	28.30
						10	28.44
						20	28.58
						30	28.44
						50	28.21
147	27-11-1957	0830-0854	10° 45' N	75° 35' E	46	0	28.40
						10	28.43
						20	28.39
						30	28.35
148	27-11-1957	0957-1009	10° 45' N	75° 40' E	36	0	28.30
						10	28.55
						20	28.52
						30	28.46
149	27-11-1957	1054-1100	10° 45' N	75° 45' E	29	0	28.50
						10	28.69
						20	28.43
150	27-11-1957	1140-1145	10° 45' N	75° 50' E	16	0	29.60
						10	28.39
151	27-11-1957	1545-1547	10° 30' N	75° 56' E	18	0	29.10
						10	29.31
152	27-11-1957	1626-1635	10° 30' N	75° 50' E	29	0	28.90
						10	28.98
						20	28.87
153	27-11-1957	1719-1732	10° 30' N	75° 45' E	38	0	28.90
						10	28.62
						20	28.41
						30	28.35
154	27-11-1957	1820-1837	10° 30' N	75° 40' E	51	0	28.80
						10	28.66
						20	28.53
						30	28.20
155	27-11-1957	1922-1940	10° 30' N	75° 35' E	64	0	28.70
						10	28.81
						20	28.24
						30	28.22
						50	28.00

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.63
34.90
34.81
34.78
35.14
34.81	..	E4	3	..	..	..
34.67	..	"	"
34.63	..	"	"
34.83	..	"	"
34.87	..	E4	3	..	..	..
34.52	..	"	"
34.58	..	"	"
34.65	..	"	"
34.81	..	SE4	3	..	..	..
34.74	..	"	"
34.56	..	"	"
34.79	..	SE3	2	..	..	..
34.78	..	"	"
34.56	..	W2	2	..	..	..
34.45	..	"	"
34.38	..	W4	3	..	..	..
34.27	..	"	"
34.76	..	"	"
34.34	..	SE3	2	..	..	..
34.43	..	"	"
34.97	..	"	"
34.96	..	"	"
34.60	..	NE3	3	..	..	..
34.54	..	"	"
34.63	..	"	"
34.90	..	"	"
34.45	..	NE4	3	Horizontal	135 m	..
34.58	..	"	"
34.90	..	"	"
34.96	..	"	"
34.96	..	"	"

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
156	27-11-1957	2030-2045	10° 30' N	75° 31' E	87	0	28.70
						10	28.74
						20	28.21
						30	28.04
						50	28.06
						75	26.97
157	27-11-1957	2217-2350	10° 30' N	75° 22' E	>500	0	28.50
						10	28.56
						20	28.37
						30	28.42
						50	27.77
						75	27.12
						100	25.73
						150	19.01
						200	15.14
						300	13.79
						400	13.17
500	11.51						
158	28-11-1957	0140-0300	10° 30' N	75° 12' E	403	0	28.50
						10	28.49
						20	28.48
						30	28.43
						50	28.33
						75	26.03
						100	23.94
						150	18.38
						200	14.85
300	12.31						
159	28-11-1957	0440-0635	10° 30' N	75° 02' E	>500	0	29.40
						10	28.63
						20	28.66
						30	28.32
						50	..
						75	..
						100	22.59
						150	18.10
						200	14.88
						300	12.73
400	11.76						
500	10.90						

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.56	..	NE4	3	..	..	..
34.56	..	"	"
34.90	..	"	"
35.10	..	"	"
35.26	..	"	"
35.25	..	"	"
34.85	..	W2	2	Horizontal	..	..
34.83	..	"	"
34.83	..	"	"
35.01	..	"	"
35.25	..	"	"
35.07	..	"	"
35.46	..	"	"
34.99	..	"	"
35.14	..	"	"
35.32	..	"	"
35.43	..	"	"
35.68	..	"	"
35.08	..	NE3	2	..	..	..
35.03	..	"	"
35.10	..	"	"
35.68	..	"	"
35.71	..	"	"
35.43	..	"	"
35.82	..	"	"
35.53	..	"	"
35.32	..	"	"
35.53	..	"	"
35.48	..	W2	2	Horizontal	..	..
35.46	..	"	"
35.39	..	"	"
35.55	..	"	"
35.86	..	"	"
35.57	..	"	"
35.75	..	"	"
35.50	..	"	"
35.50	..	"	"
35.57	..	"	"
35.62	..	"	"
35.66	..	"	"

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
160	28-11-1957	0800-0847	10° 30' N	74° 52' E	> 500	0	28.30
						10	28.45
						20	28.28
						30	28.26
						50	27.16
						75	25.70
						100	22.00
						150	18.13
						200	15.66
						300	12.66
161	5-12-1957	1030-1038	10° 15' N	76° 06' E	18	0	29.00
						10	28.83
162	5-12-1957	1125-1140	10° 15' N	75° 59' E	31	0	29.40
						10	28.66
						20	28.59
163	5-12-1957	1215-1230	10° 15' N	75° 55' E	35	0	29.30
						10	28.51
						20	28.44
						30	28.39
164	5-12-1957	1310-1320	10° 15' N	75° 50' E	46	0	29.10
						10	28.48
						20	28.46
						30	28.39
165	5-12-1957	1406-1420	10° 15' N	75° 45' E	62	0	29.40
						10	28.48
						20	28.40
						30	28.37
						50	28.19
166	5-12-1957	1700-1745	10° 15' N	75° 40' E	319	0	28.70
						10	28.51
						20	28.40
						30	28.44
						50	28.31
						75	25.76
						100	24.05
						200	15.81
300	13.37						

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35-55	..	NE3	3	..	..	..
35-39	..	"	"
35-43	..	"	"
35-68	..	"	"
35-68	..	"	"
35-71	..	"	"
35-86	..	"	"
35-46	..	"	"
35-55	..	"	"
35-61	..	"	"
35-68	..	"	"
35-73	..	"	"
33-80	..	NE	Calm	..	..	..
33-89	..	"	"
33-77	..	NE	Calm	..	..	..
33-75
33-77
33-71	..	E	Calm	..	..	..
33-73	..	"	"
33-73	..	"	"
33-78	..	"	"
33-84	..	NE	Calm	..	..	..
33-75	..	"	"
33-80	..	"	"
33-91	"
33-75	..	NE	Calm	..	..	..
33-77	..	"	"
33-80	..	"	"
33-91	..	"	"
34-49	..	"	"
33-68	..	NE	Calm	..	..	..
33-66	..	"	"
33-80	..	"	"
34-01	..	"	"
34-70	..	"	"
35-26	..	"	"
35-14	..	"	"
34-94	..	"	"
34-92	..	"	"
34-96	..	"	"

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
167	5-12-1957	1932-2015	10° 15' N	75° 30' E	>500	0	28.30
						10	28.37
						20	28.66
						30	28.26
						50	28.23
						75	27.97
						100	24.67
						150	18.92
						200	15.86
						300	12.44
						400	11.41
500	10.93						
168	5-12-1957	2210-2255	10° 15' N	75° 20' E	>500	0	28.90
						10	28.96
						20	28.92
						30	28.75
						50	28.23
						75	28.15
						100	23.54
						150	19.83
						200	16.09
						300	13.08
						400	11.10
500	10.91						
169	6-12-1957	0045-0140	10° 15' N	75° 10' E	>500	0	28.80
						10	28.85
						20	28.64
						30	28.57
						50	28.25
						75	25.58
						100	22.41
						150	18.61
						200	15.41
						300	12.45
						400	11.74
500	11.09						
170	6-12-1957	0300-0345	10° 15' N	75° 00' E	>500	0	..
						10	28.86
						20	28.95
						30	28.73
						50	27.52

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
33-77	..	NW	Calm	..	..	..
33-88	..	"	"
34-72	..	"	"
34-87	..	"	"
35-37	..	"	"
35-50	..	"	"
35-34	..	"	"
34-90	..	"	"
34-88	..	"	"
35-05	..	"	"
34-92	..	"	"
34-81	..	"	"
33-96	..	NW	Calm	..	..	..
34-52	..	"	"
35-28	..	"	"
35-43	..	"	"
35-43	..	"	"
35-79	..	"	"
35-43	..	"	"
35-17	..	"	"
35-07	..	"	"
36-11	..	"	"
35-16	..	"	"
35-17	..	"	"
35-10	..	NW	Calm	..	..	..
..	..	"	"
35-17	..	"	"
35-35	..	"	"
35-68
35-39
35-17	..	"	"
35-07	..	"	"
35-07	..	"	"
35-16	..	"	"
35-50	..	"	"
35-28	..	"	"
35-25	..	NE	Calm	..	..	..
..	..	"	"
35-35	..	"	"
35-21	..	"	"
35-57	..	"	"

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						75	25.41
						100	22.04
						150	19.06
						200	16.17
						300	12.61
						400	11.78
						500	11.10
171	13-12-1957	0100-0230	11° 45' N	74° 10' E	>500	0	28.70
						10	28.66
						20	28.85
						30	28.83
						50	27.60
						75	26.66
						100	25.00
						150	19.88
						200	16.07
						300	13.17
						400	12.89
						500	11.04
172	13-12-1957	0500-0616	11° 46' N	74° 18' E	>500	0	28.20
						10	28.30
						20	28.95
						30	28.95
						50	28.42
						75	26.52
						100	24.59
						150	19.94
						200	16.43
						300	13.01
						400	11.57
						500	10.98
173	13-12-1957	0820-2000	11° 47' N	74° 27' 30" E	>500	0	28.50
						10	28.57
						20	28.51
						30	28.56
						50	28.23
						75	28.44
						100	27.99
						150	21.88
						200	18.39

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Ten. °C.
			Lat.	Long.			
						300	14.17
						400	12.14
						500	11.21
174	13-12-1957	1030-1100	11° 47' N	74° 32' E	..	0	28.50
						10	28.53
						20	28.43
						30	28.38
						50	28.60
						75	26.93
						100	25.59
						150	19.80
						200	16.67
175	13-12-1957	1200-1210	11° 48' N	74° 36' E	135	0	29.00
						10	28.64
						20	28.62
						30	28.50
						50	28.43
						75	27.01
						100	24.85
176	13-12-1957	1730-1800	11° 48' N	74° 41' 30" E	104	0	28.80
						10	28.68
						20	28.67
						30	28.83
						50	28.43
						75	26.02
						100	24.18
177	13-12-1957	1945-2015	11° 48' 30" N	74° 46' E	82	0	29.50
						10	28.84
						20	28.80
						30	28.64
						50	28.44
						75	26.98
178	13-12-1957	2050-2108	11° 48' 30" N	75° 51' 30" E	71	0	28.80
						10	28.83
						20	28.71
						30	28.67
						50	28.58

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
..	..	NE2	2	..	..	..
..	..	"	"
..	..	"	"
34.25	..	NE3	2	Horizontal	..	..
..	..	"	"
..	..	"	"
..	..	"	"
..	..	"	"
..	..	"	"
..	..	"	"
..	..	"	"
34.23	..	NE2	3	Horizontal	..	..
..	..	"	"
..	..	"	"
..	..	"	"
..	..	"	"
..	..	"	"
..	..	NE2	3	Horizontal	..	..
34.18	..	"	"
..	..	"	"
..	..	"	"
..	..	"	"
..	..	"	"
..	..	E2	3	Horizontal	80 m	..
34.18	..	"	"
..	..	"	"
..	..	"	"
..	..	"	"
..	..	NE	3	Horizontal	65 m	..
34.20	..	"	"
..	..	"	"
..	..	"	"
..	..	"	"

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
179	13-12-1957	2152-2207	11° 49' N	74° 56' E	62	0	28.80
						10	28.82
						20	28.57
						30	28.56
						50	28.57
180	13-12-1957	2255-2310	11° 50' N	75° 01' E	56	0	28.50
						10	28.62
						20	28.57
						30	28.58
						50	28.67
181	14-12-1957	0000-0020	11° 80' N	75° 06' E	51	0	28.90
						10	28.95
						20	28.83
						30	28.82
						50	28.77
182	14-12-1957	0120-0134	11° 50' N	75° 10' E	31	0	28.70
						10	28.68
						20	28.83
						30	28.89
183	14-12-1957	0246-	11° 50'	75° 15' E	18	0	28.80
			30" N			10	28.81
184	16-12-1957	1922-	12° 00' N	75° 05' E	23	0	28.70
						10	28.78
						20	28.61
185	16-12-1957	2005-2042	12° 00' N	75° 00' E	42	0	28.80
						10	28.76
						20	28.84
						30	28.78
186	16-12-1957	2130-2150	12° 00' N	74° 55' E	55	0	28.50
						10	28.66
						20	28.54
						30	28.64
						50	28.56
187	16-12-1957	2240-2254	12° 00' N	74° 50' E	62	0	28.50
						10	28.60
						20	28.52
						30	28.48
						50	28.58

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.13	..	NE2	2	Horizontal	60 m	..
..
..
..
34.13	..	NE2	2	Horizontal	50 m	..
..
..
..
34.42	..	NE2	2	Horizontal	50 m	..
..
..
..
34.47	..	NE2	1-2	Horizontal	..	..
..
..
34.45	..	E2	2	..	..	..
..
34.63	..	NE2	2	Horizontal	..	..
34.45
34.63
34.43	..	NE3	2	Horizontal	40	..
34.51
34.65
34.58
34.42	..	NE3	2	Horizontal	50	..
34.13
34.34
34.42
34.81
34.40	..	NE3	2	Horizontal	60	..
34.31
34.31
34.27
34.88

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
188	16-12-1957	2345-0002	12° 00' N	74° 45' E	67	0	28.20
						10	28.62
						20	28.49
						30	28.49
						50	28.58
189	17-12-1957	0050-0108	12° 00' N	74° 40' E	..	0	28.30
						10	28.47
						20	28.52
						30	28.35
						50	28.56
190	17-12-1957	0200-0225	12° 00' N	74° 35' E	108	0	28.50
						10	28.67
						20	28.77
						30	28.83
						50	28.71
191	17-12-1957	0315-0340	12° 00' N	74° 30' E	113	0	28.60
						10	28.66
						20	28.79
						30	28.74
						50	28.24
192	17-12-1957	0510-0640	10° 00' N	74° 20' E	300	0	28.20
						10	28.40
						20	28.87
						30	28.72
						50	28.74
193	17-12-1957	0830-1000	12° 00' N	74° 10' E	> 500	0	28.30
						10	28.57
						20	28.57
						30	28.62
						50	28.62

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34-20	..	NE3	2	Horizontal	65	..
34-33	..	"	"	"	"	..
33-95	..	"	"	"	"	..
34-22	..	"	"	"	"	..
34-67	..	"	"	"	"	..
34-22	..	NE3	2	Horizontal	80	..
34-09	..	"	"	"	"	..
34-25	..	"	"	"	"	..
34-13	..	"	"	"	"	..
34-74	..	"	"	"	"	..
35-25	..	"	"	"	"	..
34-23	..	NE3	2	Horizontal	100	..
34-25	..	"	"	"	"	..
..	..	"	"	"	"	..
34-29	..	"	"	"	"	..
34-81	..	"	"	"	"	..
35-35	..	"	"	"	"	..
35-32	..	"	"	"	"	..
34-18	..	NE3	2	Horizontal	110	..
34-31	..	"	"	"	"	..
34-34	..	"	"	"	"	..
34-31	..	"	"	"	"	..
35-19	..	"	"	"	"	..
35-50	..	"	"	"	"	..
35-35	..	"	"	"	"	..
34-25	..	NE3	2	Horizontal	135	..
34-29	..	"	"	"	"	..
34-34	..	"	"	"	"	..
34-88	..	"	"	"	"	..
35-43	..	"	"	"	"	..
34-42	..	"	"	"	"	..
34-99	..	"	"	"	"	..
35-35	..	"	"	"	"	..
35-12	..	"	"	"	"	..
35-23	..	"	"	"	"	..
35-03	..	NE	..	Horizontal	135	..
35-07	..	"	"	"	"	..
35-03	..	"	"	"	"	..
35-10	..	"	"	"	"	..
35-52	..	"	"	"	"	..

Vessel: R. V. KALAYA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						75	27.01
						100	24.72
						150	19.83
						200	16.48
						300	13.19
						400	11.67
						500	10.91
194	17-12-1957	1410-1500	12° 15' N	74° 00' E	>500	0	28.80
						10	28.44
						20	28.69
						30	28.81
						50	28.35
						75	26.44
						100	25.15
						150	18.59
						200	16.29
						300	13.27
						400	11.67
						500	10.83
195	17-12-1957	1650-1755	12° 15' N	74° 10' E	>500	0	28.80
						10	28.46
						20	28.81
						30	28.72
						50	28.38
						75	26.49
						100	24.99
						150	19.12
						200	16.66
						300	12.78
						400	11.65
						500	10.82
196	17-12-1957	1925-2000	12° 15' N	74° 20' E	240	0	28.40
						10	28.51
						20	28.53
						30	28.56
						50	28.68
						75	27.96
						100	25.45
						150	19.14
						200	15.53

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35-55	..	NE	..	..	..	..
35-43	..	"
35-17	..	"
35-01	..	"
35-21	..	"
35-14	..	"
35-23	..	"
35-14	..	N3	3	Horizontal	135	..
35-14	..	"	"
35-07	..	"	"
35-46	..	"	"
35-59	..	"	"
35-52	..	"	"
35-68	..	"	"
35-10	..	"	"
35-10	..	"	"
35-28	..	"	"
35-21	..	"	"
35-16	..	"	"
34-78	..	NE2	2	Horizontal	135	..
34-87	..	"	"
35-25	..	"	"
35-32	..	"	"
35-19	..	"	"
35-44	..	"	"
35-34	..	"	"
35-21	..	"	"
35-10	..	"	"
35-32	..	"	"
35-32	..	"	"
35-17	..	"	"
34-49	Horizontal	135	..
34-56
34-74
34-97
35-57
35-71
35-52
35-52
35-26

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
197	17-12-1957	2055-2120	12° 15' N	74° 25' E	148	0	28.50
						10	28.56
						20	28.47
						30	28.83
						50	28.79
						75	28.14
						100	25.90
198	17-12-1957	2215-2300	12° 15' N	74° 30' E	111	0	28.30
						10	28.45
						20	28.44
						30	28.42
						50	28.41
						75	28.24
						100	25.30
199	17-12-1957	2340-2400	12° 15' N	74° 35' E	82	0	28.20
						10	28.56
						20	28.63
						30	28.64
						50	28.53
						75	28.16
200	18-12-1957	0045-0105	12° 15' N	74° 40' E	64	0	28.50
						10	28.71
						20	28.64
						30	28.64
						50	28.53
201	18-12-1957	0206-0222	12° 15' N	74° 45' E	61	0	28.60
						10	28.48
						20	28.64
						30	28.65
						50	28.60
202	18-12-1957	0310-0322	12° 15' N	74° 50' E	53	0	28.50
						10	28.56
						20	28.58
						30	28.56
						50	28.58
203	18-12-1957	0410-0421	12° 15' N	74° 55' E	35	0	28.50
						10	28.85
						20	28.55
						30	28.79

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.38	Horizontal	135	..
34.40
34.38
34.70
35.50
35.25
35.50
33.87	Horizontal	110	..
34.23
34.33
34.49
35.14
35.41
35.41
34.33	Horizontal	80	..
34.34
34.33
34.54
34.74
35.23
34.25	Horizontal	60	..
34.18
34.31
34.34
34.42
34.31	..	NE2	2	Horizontal	..	..
34.27	..	"	"
34.31	..	"	"
34.31	..	"	"
34.60	..	"	"
..	..	NE2	2	Horizontal	50	..
..	..	"	"
..	..	"	"
..	..	"	"
..	..	"	"
..	..	NE2	2	Horizontal	30	..
..	..	"	"
..	..	"	"
..	..	"	"

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
204	18-12-1957	0500-0518	12° 15' N	75° 00' E	18	0	28.10
						10	28.43
205	19- 2-1958	0300-0730	09° 27' N	75° 14' E	>1500	0	28.35
						10	28.43
						20	28.21
						30	27.69
						50	28.57
						75	..
						100	26.08
						150	17.50
						200	14.07
						300	12.45
						400	11.24
						500	10.20
600	9.55						
700	9.21						
800	8.38						
1000	6.95						
1200	6.17						
1500	5.13						
206	19- 2-1958	1335-1640	09° 10' N	74° 73' E	>1500	0	28.52
						10	28.42
						20	28.60
						30	28.37
						50	28.00
						75	27.30
						100	27.31
						150	19.69
						200	14.54
						300	12.66
						400	11.04
						500	10.48
						600	..
						700	8.87
						800	8.58
1000	7.57						
1200	6.43						
1500	4.80						
207	19/20-2-1958	2100-0015	08° 55' N	74° 12' E	>1500	0	28.54
						10	28.41
						20	28.21

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
..	..	NE2	2	Horizontal	..	..
..	..	"	"
33-22	..	NE3	2	Vertical	135	..
33-31	..	"	"
33-33	..	"	"
33-28	..	"	"
34-38	..	"	"
35-16	..	"	"
35-57	..	"	"
34-96	..	"	"
35-05	..	"	"
34-85	..	"	"
35-19	..	"	"
35-07	..	"	"
35-08	..	"	"
35-08	..	"	"
35-03	..	"	"
34-85	..	"	"
34-83	..	"	"
34-74	..	"	"
33-40	..	NE2	2	Vertical	135	..
33-37	..	"	"
34-11	..	"	"
34-38	..	"	"
34-81	..	"	"
35-23	..	"	"
35-86	..	"	"
35-34	..	"	"
35-10	..	"	"
35-17	..	"	"
35-01	..	"	"
35-01	..	"	"
35-16	..	"	"
34-97	..	"	"
34-99	..	"	"
34-81	..	"	"
34-85	..	"	"
34-65	..	"	"
33-58	..	NE3	2	Vertical	135	..
33-58	..	"	"
33-58	..	"	"

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						30	28.03
						50	27.83
						75	27.65
						100	25.52
						150	19.18
						200	15.92
						300	12.62
						400	11.35
						500	10.46
						600	9.85
						700	*9.95
						800	9.70
						1000	8.42
						1200	6.77
						1500	4.81
208	20- 2-1958	0430-0925	08° 36' N	73° 38' E	>2000	0	28.30
						10	28.38
						20	28.23
						30	28.04
						50	28.15
						75	27.85
						100	25.83
						150	20.49
						200	16.13
						300	12.78
						400	11.46
						500	10.72
						600	10.05
						700	9.18
						800	8.37
						1000	7.43
						1200	6.47
						1500	5.59
						1800	4.64
						2000	4.09
209	21- 2-1958	0830-0835	08° 22' N	73° 08' E	>500	..	..
210	23- 2-1958	1745-2100	08° 32' N	73° 02' E	>1500	0	28.85
						10	28.19
						20	..
						30	28.30

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.05	..	NE3	2	..	..	..
34.52	..	"	"
34.86	..	"	"
34.92	..	"	"
35.14	..	"	"
34.87	..	"	"
34.99	..	"	"
34.79	..	"	"
34.88	..	"	"
34.85	..	"	"
34.90	..	"	"	* Doubtful
35.02	..	"	"
34.88	..	"	"
34.76	..	"	"
34.65	..	"	"
33.36	..	NE2	1	Vertical	135	..
33.37	..	"	"
33.15	..	"	"
33.60	..	"	"
33.68	..	"	"
34.40	..	"	"
34.99	..	"	"
34.76	..	"	"
35.07	..	"	"
34.78	..	"	"
34.88	..	"	"
34.81	..	"	"
34.90	..	"	"
34.85	..	"	"
34.78	..	"	"
34.79	..	"	"
34.65	..	"	"
34.56	..	"	"
34.56	..	"	"
34.58	..	"	"
..	..	NE2	2	Vertical	135	B.T. and plankton close to the lagoon of Minicoy
33.60	..	NE2	1	Vertical	135	..
33.58	..	"	"
33.48	..	"	"
33.55	..	"	"

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						50	28.17
						75	28.03
						100	28.87
						150	18.83
						200	16.68
						300	13.02
						400	11.66
						500	10.63
						600	10.01
						700	9.16
						800	9.37
						1000	7.60
						1200	6.06
						1500	4.92
211	24-2-1958	0030-0405	08° 54' N	72° 56' E	>1500	0	28.45
						10	28.23
						20	28.10
						30	28.08
						50	28.03
						75	28.02
						100	27.84
						150	19.94
						200	15.85
						300	12.91
						400	11.39
						500	10.64
						600	9.78
						700	9.18
						800	8.46
						1000	7.20
						1200	5.85
						1500	4.91
212	24-2-1958	0900-1420	09° 18' N	72° 53' E	>2000	0	28.50
						10	28.17
						20	28.33
						30	28.12
						50	..
						75	28.07
						100	27.84
						150	21.31
						200	15.52
						300	12.77

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
33·69	..	NE2	1	..	..	..
34·42	..	"	"
35·28	..	"	"
34·88	..	"	"
34·79	..	"	"
34·85	..	"	"
34·92	..	"	"
34·85	..	"	"
34·97	..	"	"
34·79	..	"	"
34·78	..	"	"
34·94	..	"	"
34·69	..	"	"
34·79	..	"	"
33·29	..	Calm	Calm	Vertical	135	..
33·33	..	"	"
33·49	..	"	"
33·58	..	"	"
34·14	..	"	"
34·60	..	"	"
..	..	"	"
34·56	..	"	"
34·67	..	"	"
34·83	..	"	"
34·85	..	"	"
34·90	..	"	"
37·76	..	"	"
34·82	..	"	"
34·65	..	"	"
34·70	..	"	"
34·61	..	"	"
34·65	..	"	"
33·44	..	NE2	2	Vertical	135	..
33·47	..	"	"
33·97	..	"	"
33·64	..	"	"
34·44	..	"	"
34·77	..	"	"
34·74	..	"	"
35·19	..	"	"
34·68	..	"	"
34·81	..	"	"

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						400	11.54
						500	10.78
						600	9.73
						700	8.94
						800	8.27
						1000	7.63
						1200	6.37
						1500	5.30
						1800	4.00
						2000	2.41
213	24- 2-1958	1845-2150	09° 43' N	72° 42' E	>1500	0	28.38
						10	28.37
						20	28.34
						30	28.31
						50	28.06
						75	28.09
						100	27.20
						150	18.78
						200	17.36
						300	14.80
						400	12.26
						500	11.24
						600	10.64
						700	9.51
						800	8.61
						1000	7.07
						1200	6.45
						1500	5.03
214	25- 2-1958	0355-0624	10° 10' N	72° 42' E	>1500	0	28.30
						10	28.20
						20	28.39
						30	28.21
						50	28.22
						75	27.74
						100	25.79
						150	19.71
						200	15.39
						300	13.17
						400	11.89
						500	11.25
						600	10.59
						700	9.82

S	O ₂	Wind	Sea	Plankton	B.T.	Remarks
%	ml./l.					
34-88	..	NE2	2	..	..	..
34-99	..	"	"
34-74	..	"	"
34-78	..	"	"
34-74	..	"	"
34-69	..	"	"
34-58	..	"	"
34-57	..	"	"
34-59	..	"	"
34-45	..	"	"
33-79	..	NE2	2	Vertical	135	..
33-73	..	"	"
33-87	..	"	"
33-80	..	"	"
34-60	..	"	"
35-13	..	"	"
35-21	..	"	"
35-15	..	"	"
35-23	..	"	"
35-04	..	"	"
35-08	..	"	"
35-13	..	"	"
35-26	..	"	"
35-09	..	"	"
35-07	..	"	"
34-97	..	"	"
34-94	..	"	"
34-94	..	"	"
33-86	..	NE2	2	Vertical	135	..
33-92	..	"	"
34-04	..	"	"
34-43	..	"	"
34-71	..	"	"
35-80	..	"	"
35-55	..	"	"
35-44	..	"	"
35-16	..	"	"
35-20	..	"	"
35-24	..	"	"
35-30	..	"	"
35-12	..	"	"
35-22	..	"	"

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						800	8.99
						1000	7.61
						1200	6.23
						1500	4.90
215	26-2-1958	0625-0635	10° 46' N	72° 42' E	..	0	28.03
216	26-2-1958	1955-2330	11° 03' N	72° 53' E	>2000	0	28.20
						10	28.35
						20	28.40
						30	28.24
						50	27.98
						75	26.85
						100	23.93
						150	18.33
						200	15.91
						300	..
						400	11.89
						500	11.35
						600	10.46
						700	9.74
						800	9.22
						1000	7.81
						1200	6.36
						1500	5.02
						1800	4.00
						2000	3.46
217	28-2-1958	..	10° 03' N	73° 45' E	..	0	28.80
218	28-2-1958	1527-1750	10° 03' N	74° 10' E	>1500	0	28.45
						10	28.54
						20	28.61
						30	28.52
						50	28.09
						75	26.72
						100	24.40
						150	..
						200	15.32
						300	12.56
						400	11.44
						500	10.85
						600	10.01
						700	9.43

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35.25	..	NE2	2	..	..	..
35.06	..	"	"
35.00	..	"	"
34.88	..	"	"
34.12	..	NE3	2	Vertical	135	..
34.10	..	NE3	2	Vertical	135	..
34.23	..	"	"
34.33	..	"	"
34.78	..	"	"
35.13	..	"	"
35.17	..	"	"
35.41	..	"	"
35.26	..	"	"
35.14	..	"	"
35.28	..	"	"
35.10	..	"	"
35.17	..	"	"
35.14	..	"	"
34.96	..	"	"
35.03	..	"	"
34.99	..	"	"
34.83	..	"	"
34.74	..	"	"
34.75	..	"	"
34.65	..	"	"
34.25	Red water observed
33.95	..	W3	2	..	..	..
33.98	..	"	"
34.29	..	"	"
34.69	..	"	"
35.41	..	"	"
35.52	..	"	"
35.62	..	"	"
35.12	..	"	"
34.99	..	"	"
34.88	..	"	"
35.07	..	"	"
35.12	..	"	"
35.08	..	"	"
34.74	..	"	"

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						800	8.72
						1000	7.08
						1200	5.93
						1500	5.00
219	28- 2-1958	2248-0010	10° 03' N	74° 40' E	>1500	0	28.40
						10	28.26
						20	28.51
						30	28.53
						50	28.22
						75	27.71
						100	23.50
						150	18.15
						200	15.94
						300	12.23
						400	11.14
						500	10.53
						600	9.75
						700	9.24
						800	8.47
						1000	7.15
						1200	6.06
						1500	4.55
220	1- 3-1958	0550-0740	10° 02' N	75° 10' E	>1500	0	..
						10	28.32
						150	17.61
						500	10.53
						1000	7.25
						1500	4.49
221	31- 3-1958	1945-2008	09° 58' N	76° 09' E	15	0	30.80
						10	29.76
222	31- 3-1958	2045-2055	09° 54' N	76° 06' E	29	0	29.90
						10	29.96
						20	28.79
223	31- 3-1958	2137-2152	09° 50' N	76° 02' E	36	0	29.80
						10	30.01
						20	29.17
						30	28.82
224	31- 3-1958	2233-2245	09° 46' N	75° 58' E	47	0	29.80
						10	29.96

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35.05	..	W3	2	..	..	..
34.69	..	"	"
34.88	..	"	"
34.67	..	"	"
33.98	..	NE3	3	..	..	..
33.85	..	"	"
33.94	..	"	"
34.22	..	"	"
35.11	..	"	"
35.20	..	"	"
35.28	..	"	"
35.04	..	"	"
35.02	..	"	"
35.07	..	"	"
35.07	..	"	"
35.14	..	"	"
35.07	..	"	"
34.95	..	"	"
35.02	..	"	"
34.94	..	"	"
34.86	..	"	"
34.93	..	"	"
33.60	..	NE3	3	..	..	..
33.57	..	"	"
35.01	..	"	"
35.08	..	"	"
34.94	..	"	"
34.76	..	"	"
34.55	..	NW3	3	..	..	..
34.40	..	"	"
34.05	..	NW3	3-4	..	..	..
34.20	..	"	"
34.08	..	"	"
34.07	..	NW3	..	..	..	..
34.09	..	"	"
34.08	..	"	"
34.33	..	"	"
34.02	..	NW3	3	..	..	..
34.05	..	"	"

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						20	29.66
						30	29.45
225	31- 3-1958	2330-2343	09° 45' N	75° 54' E	56	0	29.80
						10	29.93
						20	30.00
						30	29.61
						50	28.72
226	1- 4-1958	..	09° 37' N	75° 50' E	68	0	29.45
						10	29.11
						20	29.96
						30	29.12
						50	28.96
227	1- 4-1958	0130-0145	09° 33' N	75° 46' E	..	0	29.58
						10	29.63
						20	..
						30	29.72
						50	29.05
						75	..
228	1- 4-1958	0244-0330	09° 29' N	75° 43' E	280	0	29.71
						10	28.63
						20	..
						30	29.17
						50	28.74
						75	26.77
						100	24.50
						150	17.93
						200	16.01
						300	13.15
229	1- 4-1958	0455-0550	09° 22' N	75° 36' E	>500	0	29.70
						10	29.59
						20	29.54
						30	28.17
						50	28.64
						75	27.64
						100	..
						150	17.41
						200	14.07
						300	12.07
						400	10.86
						500	10.20

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34·03	..	NW3	3	..	..	..
34·08	..	"	"
..	..	NW3	3	..	..	..
34·04	..	"	"
33·93	..	"	"
33·95	..	"	"
34·60	..	"	"
33·94
34·07
34·22
34·52
..
33·83
33·85
33·93
33·96
33·80
34·46
33·94
35·45
35·47
34·94
35·02
..
33·93
34·02
34·28
33·93
33·97	..	NW2	2	..	..	..
..	..	"	"
34·06	..	"	"
34·07	..	"	"
34·74	..	"	"
34·43	..	"	"
35·43	..	"	"
35·04	..	"	"
34·85	..	"	"
35·12	..	"	"
35·07	..	"	"
..	..	"	"

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
230	1- 4-1958	1140-1226	09° 14' N	75° 29' E	>500	0	30.72
						10	29.88
						20	29.86
						30	29.64
						50	28.60
						75	26.59
						100	22.95
						150	17.82
						200	14.42
						300	12.38
400	11.13						
500	10.64						
231	1- 4-1958	1353-1450	09° 11' N	75° 39' E	>500	0	33.01
						10	30.14
						20	29.84
						30	29.53
						50	29.05
						75	26.71
						100	22.37
						150	18.63
						200	14.33
						300	12.60
400	10.03						
500	..						
232	1- 4-1958	1520-1648	09° 08' N	75° 49' E	306	0	30.91
						10	29.94
						20	29.54
						30	29.15
						50	28.46
						75	27.14
						100	24.62
						150	17.52
200	14.85						
233	1- 4-1958	2255-2305	09° 04' N	75° 59' E	72	0	29.90
						10	29.90
						20	29.37
						30	28.79
						50	27.63
234	1- 4-1958	2350-0000	09° 03' N	76° 05' E	..	0	30.00
						10	30.04

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
33.72	..	0	1	..	..	..
33.90	..	"	"
34.13	..	"	"
34.02	..	"	"
34.91	..	"	"
35.54	..	"	"
35.61	..	"	"
35.04	..	"	"
34.99	..	"	"
35.11	..	"	"
35.13	..	"	"
35.08	..	"	"
33.99
33.86
33.99
34.14
34.76
35.53
35.31
35.04
35.05
35.09
35.13
34.97
33.97
33.91
34.08
34.24
34.41
35.34
35.39
35.03
35.10
33.86	..	NW2	1	..	..	..
34.11	..	"	"
34.03	..	"	"
34.28	..	"	"
34.72	..	"	"
34.25	..	NW2	..	..	..	..
34.14	..	"

Vessel: R. V. KALAYA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						20	30.00
						30	29.93
						50	28.05
235	2- 4-1958	0938-0944	09° 01' N	76° 11' E	49	0	30.20
						10	30.23
						20	29.54
						30	28.62
236	2- 4-1958	1025-1032	09° 00' N	76° 17' E	49	0	30.20
						10	30.44
						20	30.84
						30	29.29
237	2- 4-1958	1111-1118	08° 58' N	76° 23' E	37	0	30.50
						10	30.40
						20	29.96
						30	29.28
238	2- 4-1958	1153-1157	08° 56' N	76° 29' E	27	0	30.30
						10	30.77
						20	29.94
239	7- 4-1958	1827-1831	08° 50' N	76° 35' E	19	0	30.30
						10	30.33
240	7- 4-1958	1905-1915	08° 46' N	76° 33' E	38	0	30.40
						10	30.09
						20	28.78
						30	28.82
241	7- 4-1958	1958-2008	08° 42' N	76° 31' E	47	0	30.30
						10	29.98
						20	29.53
						30	29.52
242	7- 4-1958	2100-2130	08° 38' N	76° 28' E	59	0	29.70
						10	30.10
						20	29.94
						30	29.23
						50	29.22
243	7- 4-1958	2215-	08° 34' N	76° 25' E	75	0	30.00
						10	30.19
						20	29.95
						30	29.18
						50	29.96

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34-20	..	NW2	..	..	..	..
34-17	..	"
34-52	..	"
34-19	..	SE2	1	..	..	..
34-15	..	"	"
34-20	..	"	"
34-30	..	"	"
34-48	..	SE1	1	..	..	..
34-14	..	"	"
34-05	..	"	"
34-23	..	"	"
34-08
34-07
33-95
34-08
34-01	1	..	..	..
34-02	"
34-25	"
34-30	..	NNE3	2-3	..	..	..
34-24	..	"	"
34-22	..	NE3	2	..	..	..
34-20	..	"	"
34-16	..	"	"
34-39	..	"	"
34-03	..	3	2	..	..	..
33-98	..	"	"
33-98	..	"	"
34-02	..	"	"
33-91
33-86
33-88
33-97
..
33-94
33-98
33-96
33-97
33-92

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
244	8- 4-1958	0000-0110	08° 25' N	76° 20' E	>500	0	30.40
						10	30.02
						20	30.11
						30	29.77
						50	29.02
						75	27.41
						100	22.45
						150	17.41
						200	14.66
						300	12.77
						400	11.65
500	10.55						
245	8- 4-1958	0240-0341	08° 17' N	76° 14' E	>500	0	30.10
						10	30.08
						20	30.09
						30	29.73
						50	28.62
						75	26.61
						100	23.79
						150	17.01
						200	14.95
						300	11.85
						400	10.95
500	10.42						
246	8- 4-1958	0530-0642	08° 08' N	76° 09' E	>500	0	29.90
						10	29.58
						20	29.76
						30	29.36
						50	28.42
						75	27.80
						100	22.06
						150	16.39
						200	16.12
						300	12.35
						400	11.02
500	10.34						
247	8- 4-1958	0820-0921	08° 08' N	76° 19' E	>500	0	29.90
						10	29.82
						20	29.87
						30	28.44
						50	28.47

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34·16	..	NE3	2	Vertical	..	..
34·17	..	"	"
34·29	..	"	"
34·39	..	"	"
35·03	..	"	"
34·52	..	"	"
35·37	..	"	"
35·30	..	"	"
35·08	..	"	"
35·11	..	"	"
35·14	..	"	"
35·16	..	"	"
34·23	..	NE4	3	..	..	..
34·20	..	"	"
34·26	..	"	"
34·35	..	"	"
34·83	..	"	"
34·34	..	"	"
35·37	..	"	"
35·05	..	"	"
35·20	..	"	"
35·01	..	"	"
..	..	"	"
35·10	..	"	"
34·05	..	4	2	Vertical	..	..
33·94	..	"	"
33·95	..	"	"
34·22	..	"	"
34·62	..	"	"
35·45	..	"	"
35·30	..	"	"
35·04	..	"	"
35·06	..	"	"
35·15	..	"	"
35·22	..	"	"
..	..	"	"
34·07	..	NE4	2	..	..	..
34·09	..	"	"
33·96	..	"	"
34·04	..	"	"
34·80	..	"	"

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						75	26.18
						100	25.05
						150	16.72
						200	14.47
						300	12.19
						400	11.03
						500	10.12
248	8-4-1958	1052-	08° 07' N	76° 28' E	>500	0	30.20
						10	30.03
						20	30.00
						30	28.91
						50	27.81
						75	25.99
						100	22.98
						150	16.34
						200	14.52
						300	12.69
						400	11.35
						500	10.41
249	8-4-1958	1332-1352	08° 07' N	76° 37' E	146	0	30.30
						10	30.09
						20	29.89
						30	29.86
						50	28.59
						75	24.87
						100	20.98
250	8-4-1958	1433-1500	08° 07' N	76° 44' E	91	0	30.10
						10	30.16
						20	29.66
						30	29.21
						50	27.62
						75	23.87
251	8-4-1958	1620-1630	08° 06' 30" N	76° 49' E	68	0	30.27
						10	30.14
						20	30.01
						30	29.50
						50	..
252	8-4-1958	1720-1730	08° 06' 30" N	76° 55' E	54	0	30.00
						10	30.17

S %	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.82	..	NE4	2	..	..	..
35.37	..	"	"
35.01	..	"	"
35.10	..	"	"
35.09	..	"	"
35.10	..	"	"
35.08	..	"	"
34.25	..	NE4	2	Vertical	..	..
34.21	..	"	"
33.91	..	"	"
34.46	..	"	"
34.73	..	"	"
34.91	..	"	"
35.23	..	"	"
34.91	..	"	"
35.15	..	"	"
35.09	..	"	"
35.03	..	"	"
35.01	..	"	"
34.01	..	3	2	..	..	..
34.11	..	"	"
34.82	..	"	"
34.62	..	"	"
35.06	..	"	"
35.23	..	"	"
35.26	..	"	"
34.06	Vertical	..	..
34.12
34.45
34.83
34.94
35.38
34.04	..	NE3	..	..	..	..
34.00	..	"
34.02	..	"
34.15	..	"
34.66	..	"
33.96	..	NE4	2	..	..	..
34.04	..	"

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						20	29.42
						30	29.29
						50	27.83
253	8- 4-1958	1811-1822	08° 06' N	77° 00' E	53	0	30.00
						10	30.01
						20	29.79
						30	28.76
						50	27.81
254	8- 4-1958	1900-1930	08° 06' N	77° 06' E	47	0	29.90
						10	30.00
						20	29.91
						30	29.53
255	8- 4-1958	2015-2026	08° 06' N	77° 12' E	..	0	29.75
						10	29.77
						20	29.76
						30	28.80
256	8- 4-1958	2148-2152	08° 06' N	76° 17' E	18	0	29.70
						10	28.81
257	15- 4-1958	1943-1952	10° 06' N	76° 07' E	18	0	30.30
						10	30.18
258	15- 4-1958	2039-	10° 08' N	76° 02' E	29	0	30.70
						10	30.11
						20	29.53
259	15- 4-1958	2130-2155	10° 10' N	75° 57' E	35	0	30.60
						10	30.20
						20	29.63
						30	28.40
260	15- 4-1958	2313-	10° 12' N	75° 52' E	40	0	30.70
						10	30.39
						20	30.45
						30	29.49
261	16- 4-1958	0000-0015	10° 13' N	75° 47' E	53	0	30.70
						10	30.09
						20	30.02
						30	29.94
						50	28.38

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.04	..	NE4	2	..	..	..
34.30	..	"	"
34.72	..	"	"
34.03	..	NE4	2	Vertical	..	..
33.98	..	"	"
33.86	..	"	"
34.05	..	"	"
34.65	..	"	"
34.00	..	NE4	3	Vertical	..	..
33.91	..	"	"
33.92	..	"	"
34.09	..	"	"
33.95	..	NE4	3	..	..	..
33.96	..	"	"
33.99	..	"	"
34.23	..	"	"
33.92	..	NE3	2	..	..	..
34.11	..	"	"
34.37	..	Calm	1	..	..	..
34.52	..	"	"
34.65	..	1	Calm	..	..	..
..	..	"	"
..	..	"	"
34.22	..	Calm	..	..	..	..
34.31	..	"	"
34.27	..	"	"
34.74	..	"
34.61	Vertical	..	..
34.56
34.59
34.61
34.40	..	Calm	..	..	..	..
34.44	..	"	"
34.48	..	"	"
34.59	..	"	"
34.66	..	"	"

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
262	16- 4-1958	0105-	10° 15' N	75° 42' E	62	0	30.60
						10	30.18
						20	30.16
						30	29.31
						50	28.37
263	16- 4-1958	0232-0350	10° 18' N	75° 32' E	>500	0	..
						10	29.81
						20	29.82
						30	29.17
						50	28.81
						75	26.01
						100	22.57
						150	17.54
						200	13.93
						300	12.45
264	16- 4-1958	0513-0615	10° 22' N	75° 23' E	>500	0	30.70
						10	30.05
						20	30.09
						30	29.63
						50	28.49
						75	28.20
						100	23.51
						150	28.46
						200	23.31
						300	14.06
265	16- 4-1958	0750-0900	10° 25' N	75° 13' E	>500	0	30.80
						10	30.16
						20	30.14
						30	29.37
						50	28.41
						75	28.18
						100	25.54
						150	17.80
						200	14.30
						300	12.04
400	11.14						
500	10.34						

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34-21
34-30
34-32
34-50
34-62
33-98	..	Calm	Calm	Vertical	..	..
33-92
34-01
34-42
35-03
35-25
35-48
35-11
34-94
35-09
35-15
35-07
34-21	..	2	1	..	..	..
34-19
34-20
34-34
35-08
35-85
35-33
35-35
35-36
35-09
35-18
35-11
34-15	..	1	1	Vertical	..	..
34-09
34-18
34-49
35-20
35-98
35-81
35-08
35-03
34-79
35-09
35-10

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.						
			Lat.	Long.									
266	16- 4-1958	1040-	10° 33' N	75° 10' E	348	0	31.50						
						10	30.35						
						20	30.18						
						30	29.48						
						50	28.85						
						75	28.01						
						100	22.44						
						150	15.60						
267	16- 4-1958	1232-	10° 42' N	75° 24' E	74	0	31.60						
						10	30.42						
						20	30.09						
						30	29.35						
						50	28.73						
						268	16- 4-1958	1350-1400	10° 48' N	75° 27' E	57	0	31.50
												10	30.29
												20	30.15
30	30.24												
50	28.72												
269	16- 4-1958	1440-1455	10° 53' N	75° 30' E	47	0	31.80						
						10	30.43						
						20	29.95						
						30	29.62						
270	16- 4-1958	1550-1600	10° 58' N	75° 33' E	37	0	31.00						
						10	30.18						
						20	30.21						
						30	29.83						
271	16- 4-1958	1645-1655	11° 04' N	75° 37' E	31	0	31.00						
						10	30.10						
						20	29.95						
272	16- 4-1958	1744-1748	11° 09' N	75° 40' E	19	0	31.80						
						10	30.40						
273	17- 4-1958	2128-2132	11° 20' N	75° 37' E	22	0	30.20						
						10	30.51						
						20	29.57						
274	17- 4-1958	2215-	11° 20' N	75° 32' E	36	0	30.70						
						10	30.41						
						20	29.23						
						30	28.59						

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34·20	..	2	1	..	..	..
34·18	..	"	"
34·26	..	"	"
34·33	..	"	"
35·31	..	"	"
35·95	..	"	"
35·41	..	"	"
35·01	..	"	"
34·99	..	"	"
33·95	Vertical	..	..
34·24
34·47
34·98
35·48
34·30
34·25
34·27
34·37
34·96
34·44	Vertical	..	..
34·25
34·40
34·70
34·12
34·47
34·52
34·56
34·22
34·47
34·53
34·39
34·63
35·03	..	2	2	..	..	..
34·87	..	"	"
34·79	..	"	"
34·81
34·93
34·84
34·76

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
275	17- 4-1958	2312-2330	11° 20' N	75° 27' E	39	0	30.70
						10	30.19
						20	30.27
						30	28.96
276	18- 4-1958	0020-0035	11° 20' N	75° 22' E	44	0	30.70
						10	30.18
						20	30.16
						30	29.43
277	18- 4-1958	0115-0135	11° 20' N	75° 16' E	49	0	30.50
						10	30.27
						20	..
						30	29.52
278	18- 4-1958	0200-0220	11° 21' N	75° 12' E	55	0	30.20
						10	30.33
						20	30.16
						30	29.73
						50	28.02
279	18- 4-1958	0215-0315	11° 22' N	76° 06' E	60	0	30.40
						10	30.10
						20	30.05
						30	29.37
						50	28.17
280	18- 4-1958	0400-0415	11° 22' N	75° 01' E	66	0	30.50
						10	30.08
						20	30.27
						30	29.65
						50	28.50
281	18- 4-1958	0450-0458	11° 23' N	74° 56' E	77	0	30.50
						10	30.34
						20	30.36
						30	30.23
						50	28.80
282	18- 4-1958	0545-0605	11° 23' N	74° 51' E	102	0	..
						10	29.98
						20	30.25
						30	29.86
						50	28.41
						75	27.19
100	22.53						

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.88
34.89
34.96
35.00
34.85	Vertical	..	..
34.92
34.78
34.88
34.87
34.88
34.74
34.97
34.98
34.86
34.95
34.66
35.09
34.93	Vertical	..	..
34.98
34.90
35.01
35.13
34.88
34.92
34.96
34.90
35.20
34.88
34.95
34.93
34.97
35.09
35.02
34.78
34.91
34.95
35.22
35.67
35.48

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
283	18- 4-1958	0755-	11° 24' N	74° 46' E	440	0	..
						10	30.00
						20	29.94
						30	29.00
						50	28.20
						75	..
						100	22.98
						150	..
						200	15.27
						300	11.80
284	18- 4-1958	0855-0951	11° 24' N	74° 35' E	>500	0	30.50
						10	29.81
						20	29.90
						30	28.95
						50	28.32
						75	27.16
						100	23.56
						150	17.27
						200	14.64
						300	12.20
285	18- 4-1958	1115-1140	11° 34' N	74° 40' E	179	0	31.90
						10	30.07
						20	30.15
						30	29.03
						50	28.20
						75	27.19
						100	23.76
286	18- 4-1958	1223-1228	11° 38' N	74° 42' E	113	0	32.50
						10	30.47
						20	30.41
						30	30.18
						50	29.74
						75	27.19
287	18- 4-1958	1318-?	11° 43' N	74° 45' E	77	0	31.70
						10	30.47
						20	30.33

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.95	..	2	1	..	..	..
34.82	..	"	"
35.05	..	"	"
35.15	..	"	"
35.26	..	"	"
35.66	..	"	"
35.55	..	"	"
35.18	..	"	"
35.09	..	"	"
35.08	..	"	"
35.15	..	"	"
34.76	..	Calm	Calm	Vertical	..	..
34.85	..	"	"
34.91	..	"	"
35.13	..	"	"
35.37	..	"	"
35.85	..	"	"
35.62	..	"	"
35.09	..	"	"
35.07	..	"	"
35.09	..	"	"
35.18	..	"	"
35.70	..	"	"
35.08	..	NEI	1	..	..	..
35.10	..	"	"
35.01	..	"	"
34.93	..	"	"
35.37	..	"	"
35.34	..	"	"
35.56	..	"	"
35.13	..	"	"
35.21	..	"	"
35.10	..	"	"
35.23	..	"	"
35.00	..	"	"
35.48	..	"	"
35.53	..	"	"
35.42	..	"	"
35.18	..	"	1	Vertical	..	..
35.12	..	"	"
35.26	..	"	"

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						30	30.31
						50	28.58
						75	..
288	18-4-1958	1420-1435	11° 47' N	74° 47' E	70	0	31.50
						10	30.80
						20	30.25
						30	29.56
						50	28.55
289	18-4-1958	1515-1528	11° 58' N	74° 49' E	62	0	..
						10	30.35
						20	30.24
						30	29.70
						50	28.34
290	18-4-1958	1600-1615	11° 57' N	74° 52' E	60	0	32.50
						10	30.58
						20	30.14
						30	30.22
						50	28.41
291	18-4-1958	1712-1720	12° 02' N	74° 54' E	55	0	32.10
						10	32.44
						20	30.39
						30	29.98
						50	28.00
292	18-4-1958	1758-1803	12° 06' N	74° 56' E	36	0	31.90
						10	30.81
						20	30.39
						30	29.96
293	18-4-1958	1812-1900	12° 10' N	74° 58' E	..	0	31.80
						10	30.67
						20	30.63
						30	29.47
294	18-4-1958	1943-1946	12° 15' N	75° 00' E	..	0	31.50
						10	30.75
295	10-7-1958	1025-	09° 58' N	75° 49' 30" E	57	0	..
296	10-7-1958	1155-	09° 58' N	75° 55' E 30"	45.5	0	..
297	10-7-1958	1315-	09° 58' N	76° 00' E	35	0	27.15

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.95	1	..	..	..
35.33	"
35.60	"
..	Calm	..	..	..
35.02	"
35.06	"
35.03	"
35.28	"
35.06	Vertical	..	..
35.01
35.17
35.14
35.07
35.12	Vertical	..	..
35.20
35.14
35.20
35.02
35.13
35.16
35.22
35.23
35.16
35.25
35.30
35.24
35.29
35.35	Vertical	..	..
35.31
35.37
35.09
35.42
35.45
33.09	..	4-5	..	Vertical	55	Secchi disc
30.89	..	3	..	Vertical	45	Secchi disc
26.58	..	2-3	..	Vertical	32	Secchi disc

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
298	10- 7-1958	1435-	09° 58' N	76° 09' E	135	0	..
299	25- 8-1958	0720-	09° 58' E	76° 11' E	11	0	25.25
						10	21.25
300	25- 8-1958	0830-	09° 58' N	76° 07' E	26	0	24.84
						10	20.95
						20	20.85
301	25- 8-1958	0940-	09° 58' N	76° 02' E	33	0	24.01
						10	21.03
						20	20.82
						30	20.73
302	25- 8-1958	1110-	09° 58' N	75° 57' E	45	0	24.57
						10	22.35
						20	20.70
						30	20.70
						50	20.02
303	2- 9-1958	1700-	09° 58' N	76° 11' E	11	0	27.78
						10	21.53
304	2- 9-1958	1752-	09° 58' N	76° 08' E	18	0	27.66
						10	21.18
305	2- 9-1958	..	09° 57' N	76° 05' E	26	0	28.18
						10	26.46
						20	23.96
306	2- 9-1958	..	09° 56' N	76° 01' E	33	0	27.63
						10	21.84
						20	20.53
						30	20.47
307	..	..	..	..	..	..	..
308	2- 9-1958	..	09° 54' N	75° 51' E	57	0	26.82
						10	22.67
						20	21.65
						30	20.26
						50	19.69
309	2- 9-1958	2242-	09° 52' N	75° 46' E	18	0	..
310	3- 9-1958	..	09° 51' N	75° 40' E	124	0	27.03
						10	25.64
						20	21.08

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
30.15	..	3	..	Vertical	130	Secchi disc
16.98	..	2	..	Vertical	..	Secchi disc
34.40	0.10	..	..	..	..	..
..	4.25	2	..	Vertical	25	Secchi disc
34.27	0.40	..	..	..	..	..
..
32.86	3.70	2	..	Vertical	30	Secchi disc
34.24	0.40	..	..	..	..	..
34.43	0.25	..	..	..	..	..
34.42	0.35	..	..	..	..	..
32.29	4.25	..	..	Vertical	42	Secchi disc
33.24	0.60	..	..	..	..	..
34.36	0.45	..	..	..	..	..
34.51	0.30	..	..	..	..	..
34.52	0.35	..	..	..	..	..
14.15	7.05	2-3	..	..	..	..
34.43	0.27	..	..	..	..	..
25.10	5.05	2	2	Vertical	..	Secchi disc
34.51	0.30	..	..	..	..	..
24.24	..	..	..	..	..	..
34.27	0.20	..	..	..	..	..
34.31	1.30	..	..	..	..	..
32.86	4.95	..	..	..	30	..
34.29	3.20	..	..	..	..	..
34.38	0.25	..	..	..	..	..
34.54	0.05	..	..	..	..	..
..	..	..	..	..	..	B.T. Station only
33.64	5.85	..	..	..	55	..
34.05	..	..	..	..	..	..
34.40	..	..	..	..	..	..
34.42	0.60	..	..	..	..	..
34.33	0.40	..	..	..	..	..
33.64	..	..	Calm	..	..	..
33.46	..	0	..	..	..	..
33.55	..	..	..	..	..	..
34.34	..	..	..	..	..	..

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						30	20.85
						50	20.12
						75	19.44
						100	19.18
311	3-9-1958	..	09° 49' N	75° 35' E	>500	0	26.80
312	7-9-1958	1825-	09° 42' N	76° 08' E	27	0	26.92
						10	22.52
						20	21.70
313	7-9-1958	2130-	09° 24' N	76° 14' E	27	0	25.08
						10	21.58
						20	21.70
314	8-9-1958	0205-	08° 55' N	76° 29' E	27	0	24.78
						10	24.04
						20	22.88
315	8-9-1958	0400-	08° 53' N	76° 19' E	57	0	25.17
						10	23.36
						20	21.35
						30	21.15
						50	20.03
316	8-9-1958	0835-	08° 37' N	76° 44' E	27	0	23.50
						10	22.29
						20	21.56
317	8-9-1958	1303-	08° 14' N	77° 04' E	27	0	23.26
						10	22.18
						20	21.86
318	8-9-1958	1620-	08° 03' N	77° 31' E	27	..	..
319	19-9-1958	1345-	..	..	> 65	0	28.76
						10	27.30
						20	25.35
						30	22.54
						50	22.28
320	20-9-1958	0705-	07° 54' N	77° 12' E	57	0	25.86
						10	25.82
						20	24.78
						30	24.00
						50	21.88

S %	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.36	..	0	..	..	..	..
34.36	0.65	..	..	..	..	..
34.38	0.65	..	..	..	..	..
34.33	0.55	..	..	..	..	..
33.39	..	2	1	..	135	..
28.47	6.21	2	2	..	25	..
34.36	0.48	..	..	..	..	..
34.49	0.11	..	..	..	..	..
33.75	4.75	0-1	2	..	25	..
34.42	0.95	..	..	..	..	..
34.46	0.50	..	..	..	..	..
34.04	4.20	0	1	..	25	..
34.15	3.10	..	..	..	..	..
34.37	1.85	..	..	..	..	..
34.11	4.70	1	2	..	55	..
34.45	2.10	..	..	..	..	..
34.42	0.65	..	..	..	..	..
34.51	0.60	..	..	..	..	..
34.45	0.40	..	..	..	..	..
34.29	2.90	1	1	..	25	Secchi disc
34.40	0.70	..	..	..	..	..
34.42	0.15	..	..	..	..	..
34.22	2.70	3-4	2	..	25	..
34.42	1.40	..	..	..	..	..
34.52	0.70	..	..	..	..	..
..	..	3-4	2-3	..	25	B.T. only
34.62	5.60	3	2	Vertical	65	Gulf of Mannar
34.60	5.15	..	..	..	..	S.W. of Mandapam
..	..	..	..	..	..	Secchi disc
34.58	..	..	..	..	..	..
34.45	1.50	..	..	..	..	..
34.49	4.15	2-3	2-3	Vertical	55	Secchi disc
34.44	4.25	..	..	..	..	..
34.13	3.63	..	..	..	..	..
34.45	3.20	..	..	..	..	..
34.53	1.40	..	..	..	..	..

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
321	20- 9-1958	1340-	08° 26' N	76° 44' E	57	0	26.23
						10	25.89
						20	25.24
						30	23.03
						50	22.50
322	20- 9-1958	1955-	08° 55' N	76° 17' E	56	0	25.24
						10	24.24
						20	23.74
						30	22.12
						50	21.58
323	21- 9-1958	0130-	09° 26' N	76° 02' E	59	0	25.14
						10	23.27
						20	22.04
						30	21.16
						50	20.98
324	21- 9-1958	0620-	09° 58' N	75° 52' E	54	0	26.18
						10	26.03
						20	21.85
						30	21.18
						50	20.75
325	21- 9-1958	0942-	09° 58' N	76° 04' E	25	0	25.00
						10	22.41
						20	22.05
326	29- 9-1958	..	09° 58' N	76° 10' E	7	0	26.42
327	29- 9-1958	2052-	09° 58' N	76° 04' E	27	0	27.04
						10	23.57
						20	22.82
328	30- 9-1958	0412-	10° 45' N	76° 46' E	29	0	25.34
						10	22.90
						20	22.01
329	30- 9-1958	1103-	11° 13' N	75° 36' E	27	0	25.60
						10	22.20
						20	21.40
330	2-10-1958	1728-	11° 16' N	75° 41' E	12	0	26.43
						10	21.84

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34·43	4·55	2-3	2-3	Vertical	55	..
34·50	4·30	"	"	..	..	..
..	2·10	"	"	..	..	..
..	1·65	"	"	..	..	..
34·34	1·80	"	"	..	..	..
34·14	6·95	1	..	Vertical	55	..
34·29	3·70	"	..	..	..	..
34·40	2·15	"	..	..	..	..
34·37	1·15	"	..	..	..	..
..	0·85	"	..	..	..	..
33·91	4·15	..	..	Vertical	57	..
34·57	1·45	..	..	..	..	..
34·24	0·80	..	..	..	..	..
34·31	0·65	..	..	..	..	..
34·25	0·45	..	..	..	..	..
33·77	4·60	1	..	..	50	Secchi disc
34·02	4·20	"	..	..	..	..
34·52	0·85	"	..	..	..	..
34·47	0·65	"	..	..	..	..
34·57	0·65	"	..	..	..	..
32·63	4·53	0-1	..	..	24	Secchi disc
34·23	1·00	"	..	..	..	..
34·50	0·30	"	..	..	..	..
33·68	5·40	3-4	..	..	..	..
33·63	4·70	3-4	..	..	..	..
34·20	0·65	"	..	..	..	..
34·22	0·40	"	..	..	..	..
33·96	4·91	..	..	..	..	..
34·18	5·11	..	..	..	..	..
34·23	5·19	..	..	..	..	..
33·25	5·20	1	..	..	..	..
34·27	0·80	"	..	..	..	..
34·11	0·60	"	..	..	..	..
33·95	4·80	3	..	..	..	..
34·16	4·50	"	..	..	..	..

Vessel: R. V. KALAYA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
331	2-10-1958	1818--	11° 13' N	75° 37' E	29	0	26.19
						10	21.98
						20	21.27
						30	21.22
332	2-10-1958	2124--	11° 06' N	75° 22' E	55	0	27.04
						10	25.04
						20	22.72
						30	21.44
333	3-10-1958	0345-0348	10° 37' N	75° 38' E	57	0	26.52
						10	25.97
						20	24.31
						30	22.87
334	3-10-1958	0930-0938	10° 04' N	75° 50' E	55	0	26.44
						10	26.22
						20	22.57
						30	22.13
335	3-10-1958	1258-1300	09° 59' N	76° 04' E	28	0	27.00
						10	23.76
						20	23.08
						30	22.13
336	3-10-1958	1404-1415	09° 58' N	76° 07' E	12	0	27.01
						10	23.56
337	7-10-1958	0955--	09° 58' N	76° 10' E	14	0	25.76
						10	23.49
338	7-10-1958	1030--	09° 58' N	76° 08' E	17	0	26.71
						10	23.60
339	7-10-1958	1103--	09° 58' N	76° 07' E	19	0	25.59
						10	..
340	7-10-1958	1253--	09° 58' N	76° 02' E	30	0	26.49
						10	24.97
						20	22.68
341	7-10-1958	1520--	09° 58' N	75° 55' E	45	0	26.22
						10	25.05
						20	23.13
						30	22.33

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34·00	4·20	..	..	..	..	..
34·13	4·00	..	..	..	..	..
34·21	0·95	..	..	..	..	..
34·20	0·10	..	..	..	..	..
33·93	3·00	2	..	Horizontal	..	..
34·11	0·85	..	..	..	..	..
34·33	0·85	..	..	..	..	..
34·35	0·35	..	..	..	..	..
34·36	0·00	..	..	..	..	..
34·02	4·15	2	..	..	..	..
34·08	1·80	..	..	..	..	..
34·21	0·85	..	..	..	..	..
34·38	0·55	..	..	..	..	..
34·34	0·00	..	..	..	..	..
33·94	5·90	3-4	..	Surface	..	..
33·96	2·40	..	..	..	..	..
34·36	0·80	..	..	..	..	..
34·40	0·55	..	..	..	..	..
34·35	0·45	..	..	..	..	..
33·78	4·05	4	..	..	..	..
34·31	1·55	..	..	..	..	..
34·33	1·05	..	..	..	..	..
33·22	5·15	3	..	..	..	..
34·25	4·00	..	..	..	..	..
31·58	4·95	..	Rain	..	..	..
34·51	5·05	..	..	..	..	..
31·45	4·90	..	..	..	..	..
34·46	0·20	..	..	..	..	..
32·27	4·65	Rain	..	..	..	..
34·35	1·05	..	..	..	..	..
33·96	5·20	4	Rain	..	..	..
34·23	2·80	..	..	..	..	..
34·41	0·60	..	..	..	..	..
34·04	3·95	2	..	..	43	..
34·25	2·35	..	..	..	..	..
34·46	0·75	..	..	..	..	..
34·50	0·70	..	..	..	..	..

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
342	3-11-1958	0855-0905	09° 58' N	76° 11' E	11	0	28.18
343	3-11-1958	0935-0947	10° 02' N	76° 10' E	10	0	28.13
344	3-11-1958	1022-1031	10° 02' N	76° 07' E	22	0 10 20	28.19 27.63 27.62
345	3-11-1958	1104-1126	10° 02' N	76° 04' E	29	0 10 20	28.12 27.91 27.18
346	3-11-1958	1211-1230	10° 02' N	75° 58' E	36	0 10 20 30	29.17 28.87 26.14 25.87
347	3-11-1958	1323-1340	10° 02' N	75° 53' E	47	0 10 20 30	28.50 28.02 27.77 25.48
348	3-11-1958	1502-1507	10° 02' N	75° 48' E	60	0 10 20 30 50	28.69 28.13 25.82 24.22 24.24
349	6-11-1958	1048-	09° 58' N	75° 51' E	51	0 10 20 30	28.71 28.74 27.94 25.43
350	24-11-1958	1045-	09° 58' N	75° 51' E	55	0 10 20 30 50	28.70 28.09 27.75 27.26 26.08
351	27-11-1958	0320-0530	09° 58' N	75° 20' E	>500	0 10 20 30 50 75	28.45 28.29 28.12 28.14 27.85 27.64

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.78	4.75	1	..	..	..	..
34.78	5.15	..	..	..	..	..
32.14	4.65	..	..	..	..	..
34.98	4.95	..	..	..	..	..
34.96	4.60	..	..	..	..	..
31.82	4.60	..	..	..	..	..
34.87	4.90	..	..	..	..	..
34.96	5.00	..	..	..	..	..
34.60	5.05	..	..	..	..	..
34.94	5.40	..	..	..	..	..
34.90	4.00	..	..	..	..	..
..	4.20	..	..	..	..	..
34.51	5.10	0-1	1	..	45	..
34.57	5.05	..	..	..	..	..
34.71	5.03	..	..	..	..	..
34.82	3.10	..	..	..	..	..
34.72	4.90	..	..	..	58	..
34.77	5.00	..	..	..	..	..
35.20	2.90	..	..	..	..	..
34.79	1.45	..	..	..	..	..
34.87	1.25	..	..	..	..	..
34.61	4.60	2	1	..	50*	* Repeated B. T.
34.73	4.70	..	..	..	..	observations were
34.87	4.20	..	..	..	..	made at every 2
34.85	3.75	..	..	..	..	hour interval for
						24 hours
34.54	..	3-4	2	..	..	C ₁₄ Station
34.45	..	..	..	..	..	..
34.39	..	..	..	..	..	..
34.97	..	..	..	..	..	..
34.98	..	..	..	..	..	..
35.11	4.40	0	1	..	..	..
35.05	4.40	..	..	..	..	..
35.01	4.40	..	..	..	..	..
34.90	4.50	..	..	..	..	..
35.29	3.85	..	..	..	..	..
35.16	2.40	..	..	..	..	..

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						100	21.35
						150	18.75
						200	16.16
						300	12.90
						400	11.47
						500	..
352	27-11-1958	0710-0820	09° 58' N	75° 30' E	>500	0	28.22
						10	28.12
						20	27.91
						30	27.89
						50	27.83
						75	25.06
						100	22.50
						150	18.76
						200	16.46
						300	13.15
						400	11.57
						500	10.82
353	27-11-1958	0945-1103	09° 58' N	74° 40' E	410	0	28.30
						10	27.95
						20	27.79
						30	27.87
						50	27.17
						75	24.35
						100	23.83
						150	19.08
						200	16.35
						300	12.33
354	27-11-1958	1300-1420	09° 58' N	75° 50' E	70	0	28.71
						10	28.09
						20	27.80
						30	27.82
						50	27.14
355	27-11-1958	1609-1625	09° 58' N	75° 58' E	43	0	28.83
						10	27.96
						20	27.56
						30	27.01
356	27-11-1958	1748-1815	09° 58' N	76° 05' E	27	0	29.23
						10	27.59
						20	27.52

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34-99	2.30	..	..	..	..	..
34-92	0.90	..	..	..	..	..
34-88	0.35	..	..	..	..	..
35-06	0.25	..	..	..	..	..
35-10	0.60	..	..	..	..	..
34-98	0.35	..	..	..	..	..
34-90	..	..	..	..	135	..
34-86	..	..	..	..	..	..
34-90	..	..	..	..	..	..
34-96	..	..	..	..	..	..
35-35	..	..	..	..	..	..
35-23	..	..	..	..	..	..
35-07	..	..	..	..	..	..
35-16	..	..	..	..	..	..
34-96	..	..	..	..	..	..
34-84	..	..	..	..	..	..
34-98	..	..	..	..	..	..
35-08	..	..	..	..	..	..
34-79	..	..	..	..	135	..
34-79	4.70	..	..	..	..	..
34-80	4.40	..	..	..	..	..
35-04	4.40	..	..	..	..	..
35-25	3.50	..	..	..	..	..
35-02	1.90	..	..	..	..	..
34-93	1.65	..	..	..	..	..
35-09	1.40	..	..	..	..	..
35-92	..	..	..	..	..	..
34-78	..	..	..	..	..	..
34-47	4.70	1	1	Horizontal	68	..
34-46	4.70	..	..	..	..	..
34-56	4.60	..	..	..	..	..
34-58	4.40	..	..	..	..	..
34-82	3.50	..	..	..	..	..
34-50	4.45	2	1	..	40	..
34-61	4.65	..	..	..	..	..
34-74	4.00	..	..	..	..	..
34-79	2.20	..	..	..	..	..
33-41	..	2	1	..	..	..
35-00	..	..	..	..	..	..
34-68	..	..	..	..	..	..

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
357	27-11-1958	1928-1937	09° 58' N	76° 10' E	12	0	..
						10	..
358	17-12-1958	0755-0806	09° 58' N	76° 11' E	11	0	28.09
						10	28.42
359	17-12-1958	0845-0925	09° 58' N	76° 01' E	27	0	28.14
						10	28.17
						20	28.39
360	17-12-1958	1009-1024	09° 59' N	76° 01' E	33	0	28.17
						10	28.40
						20	28.38
						30	28.40
361	17-12-1958	1155-1212	10° 00' N	75° 51' E	54	0	28.34
						10	28.31
						20	28.31
						30	28.34
						50	28.51
362	17-12-1958	1335-1400	10° 01' N	75° 42' E	84	0	28.46
						10	28.34
						20	28.36
						30	28.30
						50	28.95
						75	28.78
363	17-12-1958	1553-1713	10° 02' N	75° 39' E	>500	0	28.56
						10	28.21
						20	28.51
						30	28.60
						50	28.67
						75	29.03
						100	27.81
						150	21.61
						200	18.29
						300	14.16
400	11.49						
500	10.71						
364	17-12-1958	1900-2130	10° 03' N	75° 22' E	>500	0	28.23
						10	28.31
						20	28.66
						30	28.63
						50	28.25

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
31·14	6·05	..	..	..	..	..
34·58	3·00	..	..	..	..	..
33·15	4·50	1	1	..	..	..
33·45	4·35	..	..	..	..	..
33·27	4·60	2	1	Vertical	25	..
33·21	4·65	..	..	..	..	..
33·27	4·55	..	..	..	..	..
33·72	..	3	..	..	..	..
33·95	..	..	..	..	..	..
..
..
33·36	4·55	1	..	..	52	..
33·58	4·45	..	..	..	..	..
33·68	4·25	..	..	..	..	..
33·77	4·15	..	..	..	..	..
34·08	4·20	..	..	..	..	..
33·49	..	2	1	..	82	..
33·77	..	..	..	..	..	..
34·04	..	..	..	..	..	..
34·04	..	..	..	..	..	..
35·58	..	..	..	..	..	..
35·88	..	..	..	..	..	..
33·86	4·70	1	1	Vertical	135	..
33·72	4·30	..	..	..	..	..
34·51	4·65	..	..	..	..	..
34·96	4·50	..	..	..	..	..
35·44	4·55	..	..	..	..	..
36·28	4·50	..	..	..	..	..
36·24	4·10	..	..	..	..	..
35·35	1·15	..	..	..	..	..
35·81	3·15	..	..	..	..	..
35·35	0·20	..	..	..	..	..
35·22	0·35	..	..	..	..	..
35·17	..	..	..	..	..	..
34·51	4·45	1	2	Vertical	135	..
34·78	4·50	..	..	..	..	..
35·67	4·50	..	..	..	..	..
34·78	4·35	..	..	..	..	..
35·88	4·25	..	..	..	..	..

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						75	26.54
						100	22.89
						150	19.60
						200	17.11
						300	14.18
						400	11.87
						500	11.11
365	19-12-1958	1105-1815	09° 58' N	75° 50' E	57	0	28.72
						10	28.38
						20	28.35
						30	28.38
						50	28.44
366	5- 1-1959	1550-	09° 58' N	76° 11' E	9	0	29.24
367	5- 1-1959	1700-	09° 58' N	76° 06' E	27	0	28.32
						10	27.83
						20	27.91
368	5- 1-1959	1800-	09° 58' N	76° 01' E	31	..	..
369	5- 1-1959	1930-1955	09° 58' N	75° 51' E	58	0	28.01
						10	27.84
						20	27.85
						30	27.86
						50	27.81
370	5- 1-1959	2120-2135	09° 58' N	75° 42' E	370	..	..
371	5- 1-1959	2315-0045	09° 58' N	75° 32' E	>500	0	28.22
						10	28.22
						20	28.26
						30	28.23
						50	27.87
						75	26.46
						100	24.76
						150	18.53
						200	15.90
						300	12.39
						400	11.24
						500	10.68
372	6- 1-1959	0400-0425	09° 58' N	75° 22' E	156	0	28.20
						10	27.80
						20	27.84
						30	27.85

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
36·01	..	"	"	..	..	..
35·53	3·10	"	"	..	..	..
35·17	..	"	"	..	..	..
34·56	4·60	"	"	..	..	..
35·31	0·35	"	"	..	..	..
35·31	0·20	"	"	..	..	..
35·17	0·35	"	"	..	..	..
33·31	4·60	1-2	1	..	55	C ₁₄ Station
33·02	4·55	"	"	..	..	..
33·86	4·45	"	"	..	..	..
34·20	4·45	"	"	..	..	..
34·51	4·50	"	"	..	..	..
30·22	..	9	..	..	..	..
31·63	4·45	..	..	..	..	..
31·70	4·30	..	..	..	..	..
31·79	4·40	..	..	..	..	..
..	..	..	..	..	30	B.T. only
32·18	4·40	..	..	..	..	..
32·20	3·80	..	..	..	..	..
32·20	4·10	..	..	..	..	..
32·31	3·80	..	..	..	..	..
32·30	4·10	..	..	..	..	..
..	..	..	..	..	135	B.T. only
32·84	4·45	..	..	..	..	..
33·00	4·50	..	..	..	..	..
33·08	3·75	..	..	..	..	..
33·60	4·25	..	..	..	..	..
34·49	4·55	..	..	..	..	..
34·63	..	..	..	..	..	..
..	3·95	..	..	..	..	..
34·61	0·50	..	..	..	..	..
34·72	0·30	..	..	..	..	..
34·85	0·60	..	..	..	..	..
34·74	0·30	..	..	..	..	..
..	0·45	..	..	..	..	..
32·92	..	..	..	..	..	Observation was
32·56	..	..	..	..	..	made in every two
32·60	..	..	..	..	..	hours duration for
32·65	..	..	..	..	..	24 hours

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						50	27.86
						75	28.29
						100	27.28
						150	18.72
373	13- 1-1959	1055-	09° 58' N	75° 51' E	56	0	28.28
						10	27.77
						20	27.80
						30	27.66
						50	27.72
374	15- 1-1959	0800-0805	09° 58' N	76° 11' E	9	0	28.22
375	15- 1-1959	0855-0925	09° 58' N	76° 06' E	27	0	28.15
						10	28.13
						20	28.02
376	15- 1-1959	1007-1025	09° 58' N	76° 01' E	31	0	28.17
						10	27.68
						20	27.77
377	15- 1-1959	1150-1208	09° 58' N	75° 51' E	58	0	28.02
						10	27.83
						20	27.82
						30	27.78
						50	..
378	15- 1-1959	1325-1359	09° 58' N	75° 42' E	117	0	28.03
						10	27.90
						20	28.23
						30	28.82
						50	28.56
						75	27.80
						100	26.16
379	15- 1-1959	1515-1652	09° 58' N	75° 32' E	>500	0	28.04
						10	28.04
						20	28.54
						30	28.43
						50	28.22
						75	27.01
						100	25.28
						150	19.41
						200	15.86
						300	12.46

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35.80	..	..	..	..	..	..
35.19	..	..	..	..	..	..
35.83	..	..	..	..	..	..
34.95	..	..	..	..	..	..
32.09	4.75	2-3	1	Vertical	54	Secchi disc
..
32.41	4.85	..	..	..	..	..
32.54	4.70	..	..	..	..	..
33.68	4.75	..	..	..	..	..
31.95	4.65	3	1	..	..	..
32.28	4.95	..	..	Vertical	25	Secchi disc
32.35	4.95	..	..	..	..	..
32.05	4.70	..	..	..	..	..
32.56	4.95	3	..	..	29	..
32.08	5.15	..	..	..	..	..
32.56	5.40	..	..	..	..	..
32.21	..	3-4	..	..	56	..
32.48	..	..	..	..	..	..
32.95	..	..	..	..	..	..
33.18	..	..	..	..	..	..
34.55	..	..	..	..	..	..
32.54	4.95	3	..	Vertical	115	..
32.75	5.10	..	..	..	..	..
34.98	4.95	..	..	..	..	..
33.33	4.95	..	..	..	..	..
34.31	4.55	..	..	..	..	..
34.96	4.20	..	..	..	..	..
35.18	3.60	..	..	..	..	..
32.52	..	4	..	Vertical	135	Secchi disc
32.78	..	..	..	..	..	..
33.53	..	..	..	..	..	..
33.53	..	..	..	..	..	..
34.07	..	..	..	..	..	..
34.91	..	..	..	..	..	..
35.36	..	..	..	..	..	..
35.17	..	..	..	..	..	..
35.19	..	..	..	..	..	..
34.92	..	..	..	..	..	..
34.96	..	..	..	..	..	..

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						400	11.49
						500	10.81
380	15- 1-1959	1801-2000	09° 58' N	75° 22' E	>500	0	28.07
						10	28.08
						20	28.59
						30	28.40
						50	28.19
						75	26.68
						100	23.77
						150	17.91
						200	15.39
						300	12.87
						400	11.50
						500	10.95
381	20- 1-1959	1550-1610	11° 15' N	75° 42' E	27	0	28.91
						10	28.44
						20	28.44
382	20- 1-1959	1650-1655	11° 15' N	75° 37' E	38	..	..
383	20- 1-1959	1740-1800	11° 15' N	75° 32' E	45	0	28.34
						10	27.88
						20	27.73
						30	27.68
384	20- 1-1959	1935-2010	11° 15' N	75° 21' E	53	0	28.50
						10	27.45
						20	27.77
						30	26.95
						50	27.73
385	20- 1-1959	2140-2200	11° 15' N	75° 11' E	62	0	27.93
						10	27.83
						20	27.83
						30	27.83
						50	..
386	20- 1-1959	2320-2400	11° 15' N	75° 00' E	102	0	27.80
						10	27.85
						20	27.86
						30	27.85
						50	..
						75	27.64

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.95	..	..	..	..	..	..
35.11	..	..	..	..	..	..
32.76	5.00	3-4	..	Vertical	135	..
32.74	..	..	..	..	..	..
33.59	5.05	..	..	..	..	..
34.23	5.00	..	..	..	..	..
34.87	5.30	..	..	..	..	..
35.50	3.90	..	..	..	..	..
35.22	2.60	..	..	..	..	..
34.90	0.50	..	..	..	..	..
34.94	0.30	..	..	..	..	..
34.92	0.30	..	..	..	..	..
35.01	0.35	..	..	..	..	..
35.01	0.35	..	..	..	..	..
32.72	4.50	..	..	..	..	..
32.65	4.60	..	..	..	..	..
32.81	3.65	..	..	..	..	..
..	..	..	..	..	37	B.T. only
32.59	4.65	..	..	..	..	..
32.61	4.85	..	..	..	..	..
32.59	4.70	..	..	..	..	..
32.63	4.50	..	..	..	..	..
32.70	4.70	..	..	Vertical	..	..
32.66	4.60	..	..	..	..	..
32.73	4.45	..	..	..	..	..
32.74	4.50	..	..	..	..	..
34.69	4.00	..	..	..	..	..
32.60	4.45	..	..	..	..	..
32.51	4.55	..	..	..	..	..
32.68	4.55	..	..	..	..	..
33.03	4.15	..	..	..	..	..
34.73	4.00	..	..	..	..	..
32.56	4.45	..	..	Vertical	..	..
32.70	4.55	..	..	..	..	..
32.79	4.25	..	..	..	..	..
33.08	4.25	..	..	..	..	..
34.78	3.85	..	..	..	..	..
35.26	3.95	..	..	..	..	..

Vessel: R. V. KALAYA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
387	21- 1-1959	0120-0245	11° 15' N	74° 50' E	>500	0	27.92
						10	28.04
						20	28.33
						30	28.45
						50	28.30
						75	27.70
						100	26.23
						150	18.82
						200	15.74
						300	13.34
400	11.43						
500	10.87						
388	21- 1-1959	0415-	11° 15' N	74° 55' E	155	0	..
						10	27.90
						20	27.97
						30	28.07
						50	28.33
						75	28.19
						100	26.33
150	18.20						
389	28- 1-1959	0855-	09° 58' N	76° 06' E	27	0	28.55
						10	28.63
						20	28.56
390	28- 1-1959	1345-1348	09° 58' N	75° 50' E	56	0	28.95
						10	28.48
						20	28.55
						30	28.60
						50	28.56
391	2- 2-1959	1840-1910	09° 52' N	75° 53' E	42	0	28.61
						10	28.72
						20	28.64
						30	28.75
392	2- 2-1959	..	09° 42' N	75° 49' E	64	0	28.59
						10	28.66
						20	28.53
						30	28.45
						50	28.67
393	2- 2-1959	2235-	09° 35' N	75° 39' E	164	0	28.27
						10	28.39

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
32-84	4-45	..	..	..	..	..
32-70	4-35	..	..	..	..	..
33-17	4-35	..	..	..	..	..
33-58	4-45	..	..	..	..	..
34-81	..	..	..	..	..	..
34-97	1-70	..	..	..	..	..
35-42	3-15	..	..	..	..	..
34-95	0-60	..	..	..	..	..
34-97	0-30	..	..	..	..	..
35-08	0-35	..	..	..	..	..
35-16	0-50	..	..	..	..	..
35-16	0-65	..	..	..	..	..
32-59	..	..	..	..	..	Repeated observa- tion was taken in every two hours duration
33-14	..	..	..	..	..
33-29	..	..	..	..	..
34-75	..	..	..	..	..
35-52	..	..	..	..	..
35-53	..	..	..	..	..
35-03	..	..	..	..	..
..
32-46	3-15	3	..	Vertical	..	Secchi disc
34-04	3-20	..	..	..	..	..
33-55	3-05	..	..	..	..	..
33-76	3-20	2	..	Vertical	54	Secchi disc
33-72	3-30	..	..	..	..	..
33-88	3-20	..	..	..	..	..
33-97	3-25	..	..	..	..	..
34-56	3-00	..	..	..	..	..
33-53	5-60	3	2	..	..	..
33-51	5-60	..	..	..	..	..
33-57	5-60	..	..	..	..	..
34-19	5-20	..	..	..	..	..
33-88	..	..	..	..	..	..
33-78	..	..	..	..	..	..
34-08	..	..	..	..	..	..
34-31	..	..	..	..	..	..
35-24	..	..	..	..	..	..
33-87	..	..	..	..	135	..
33-99	..	..	..	..	..	..

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						20	28.39
						30	28.15
						50	28.79
						75	28.64
						100	26.24
						150	21.41
394	3- 2-1959	0830-	09° 28' N	75° 32' E	>400	0	..
						10	28.31
						20	28.98
						30	28.96
						50	28.44
						75	27.56
						100	24.53
						150	18.91
						200	15.53
						300	12.60
						400	11.37
395	3- 2-1959	1050-	09° 19' N	75° 22' E	>500	0	28.90
						10	28.82
						20	28.83
						30	28.86
						50	28.47
						75	27.52
						100	23.58
						150	18.66
						200	15.55
						300	12.60
						400	11.48
						500	10.93
396	3- 2-1959	1345-	09° 58' N	75° 32' E	>500	0	29.08
						10	28.59
						20	28.95
						30	28.74
						50	28.62
						75	28.81
						100	24.81
						150	18.62
						200	15.57
						300	12.50
						400	11.50
						500	11.04

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34·31	..	..	..	..	..	..
34·75	..	..	..	..	..	..
35·15	..	..	..	..	..	..
35·78	..	..	..	..	..	..
35·70	..	..	..	..	..	..
35·34	..	..	..	..	..	..
34·16	..	1	2	..	..	..
34·14	..	..	..	..	..	..
34·92	..	..	..	..	..	..
34·97	..	..	..	..	..	..
35·50	..	..	..	..	..	..
35·77	..	..	..	..	..	..
35·35	..	..	..	..	..	..
35·17	..	..	..	..	..	..
35·07	..	..	..	..	..	..
35·14	..	..	..	..	..	..
35·07	..	..	..	..	..	..
34·64	5·55	1	2	Vertical	135	..
34·54	5·60	..	..	..	..	..
34·61	5·45	..	..	..	..	..
34·71	5·70	..	..	..	..	..
35·42	5·55	..	..	..	..	..
35·82	5·60	..	..	..	..	..
35·19	5·70	..	..	..	..	..
35·09	0·60	..	..	..	..	..
34·93	0·50	..	..	..	..	..
35·16	0·45	..	..	..	..	..
35·11	0·70	..	..	..	..	..
35·12	0·50	..	..	..	..	..
33·95	..	..	..	..	..	..
33·86	..	..	..	..	..	..
34·70	..	..	..	..	..	..
34·98	..	..	..	..	..	..
35·23	..	..	..	..	..	..
35·55	..	..	..	..	..	..
35·12	..	..	..	..	..	..
34·97	..	..	..	..	..	..
34·96	..	..	..	..	..	..
35·05	..	..	..	..	..	..
35·05	..	..	..	..	..	..
35·15	..	..	..	..	..	..

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
397	3- 2-1959	1600-1655	09° 10' N	75° 43' E	359	0	29.12
						10	28.89
						20	28.51
						30	28.75
						50	28.70
						75	28.60
						100	27.68
						150	19.05
398	3- 2-1959	1835-	09° 07' N	75° 51' E	125	0	28.85
						10	28.81
						20	28.81
						30	28.81
						50	28.62
						75	28.86
						100	27.52
						399	3- 2-1959	2040-	09° 03' N	76° 01' E	70	0	28.81
10	28.92						
20	28.79						
30	28.77						
50	28.60						
400	3- 2-1959	2255-	08° 58' N	76° 13' E	54	0	28.78
						10	28.83
						20	28.75
						30	28.66
						50	28.57
401	3- 2-1959	1000-	08° 57' N	76° 18' E	40	0	28.76
						10	28.80
						20	28.74
						30	28.66
402	4- 2-1959	0110-0120	08° 52' N	76° 28' E	27	0	28.73
						10	28.69
						20	28.65
403	17- 2-1959	1110-1830	10° 04' N	75° 48' E	58	0	28.85
						10	28.66
						20	28.49
						30	28.61

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
33.78	5.45	..	..	..	135	..
33.87	5.60	..	..	..	..	..
34.39	5.80	..	..	..	..	..
35.00	..	..	..	..	..	..
35.44	..	..	..	..	..	..
35.93	5.30	..	..	..	..	..
35.75	5.55	..	..	..	..	..
35.09	..	..	..	..	..	..
..	0.50	..	..	..	..	..
35.07	0.50	..	..	..	..	..
33.78	..	..	..	..	..	..
33.79	..	..	..	..	..	..
34.40	..	..	..	..	..	..
34.45	..	..	..	..	..	..
35.08	..	..	..	..	..	..
35.87	..	..	..	..	..	..
35.75	..	..	..	..	..	..
33.82	..	..	..	..	..	..
33.87	5.55	..	..	..	..	..
34.03	5.60	..	..	..	..	..
34.38	5.90	..	..	..	..	..
34.70	..	..	..	..	..	..
33.75	..	..	..	..	..	..
34.26	..	..	..	..	..	..
34.29	..	..	..	..	..	..
34.80	..	..	..	..	..	..
34.97	..	..	..	..	..	..
33.77	5.60	..	..	..	..	..
33.82	5.45	..	..	..	..	..
34.03	5.20	..	..	..	..	..
34.23	4.65	..	..	..	..	..
33.63	..	..	..	..	..	..
33.63	..	..	..	..	..	..
33.86	..	..	..	..	..	..
34.00	5.65	2	..	Vertical	..	..
34.08	..	..	..	..	..	..
34.13	5.65	..	..	..	..	..
34.42	5.60	..	..	..	..	..

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						50	28.66
						75	28.73
404	21- 2-1959	1001-1055	09° 54' N	76° 08' E	25	0	29.40
						10	29.11
						20	28.90
405	21- 2-1959	1337-1403	09° 33' N	76° 14' E	22	0	29.95
						10	28.82
						20	28.55
406	21- 2-1959	1700-1727	09° 13' N	76° 20' E	22	0	29.91
						10	28.56
407	21- 2-1959	2018-2048	08° 54' N	76° 29' E	29	0	29.64
						10	28.61
						20	28.47
408	22- 2-1959	0757-0825	09° 29' N	76° 49' E	25	0	28.65
						10	28.61
409	22- 2-1959	1114-1220	08° 13' N	77° 03' E	36	0	28.71
						10	28.63
						20	28.09
						30	27.99
410	22- 2-1959	1500-1550	08° 00' N	77° 23' E	41	0	28.50
411	24- 3-1959	0805-0910	07° 58' N	77° 07' E	52	0	29.45
						10	29.40
						20	28.60
						30	28.49
						50	28.47
412	26- 3-1959	1700-1803	08° 34' N	76° 41' E	52	0	29.92
						10	29.89
						20	29.47
						30	28.61
						50	28.47
413	27- 3-1959	0525-0616	09° 36' N	76° 00' E	51	0	30.11
						10	30.09
						20	29.92
						30	29.18

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.49	5.45	..	..	..	..	..
34.47	5.50	..	..	..	..	..
33.99	4.05	..	..	Vertical	..	..
34.23	4.05	..	..	..	..	..
34.10	3.65	..	..	..	..	..
33.89	..	2	..	Vertical	..	..
34.11	..	..	..	..	..	..
34.07	..	..	..	..	..	..
34.20	..	..	..	Horizontal	..	..
34.23	..	..	..	..	..	..
34.13	4.05	1	..	Vertical	..	..
34.22	4.05	..	..	..	..	..
34.35	4.00	..	..	..	..	..
34.05	..	1	..	Horizontal	..	..
34.07	..	..	..	..	..	..
34.05	4.15	3-4	..	Vertical+	..	..
34.04	4.20	..	..	Horizontal	..	..
34.09	4.20	..	..	..	..	..
34.32	3.80	..	..	..	..	..
..	..	5	..	Horizontal	..	Plankton station only
34.40	..	2	..	..	50	..
34.42	..	..	..	..	..	..
34.42	..	..	..	..	..	..
34.35	..	..	..	..	..	..
34.32	..	..	..	..	..	..
34.42	..	2-3	..	..	50	..
34.40	..	..	..	..	..	..
34.45	..	..	..	..	..	..
34.36	..	..	..	..	..	..
34.33	..	..	..	..	..	..
34.47	..	1	..	Vertical	49	..
34.38	..	..	..	..	..	..
34.33	..	..	..	..	..	..
34.31	..	..	..	..	..	..

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
414	1- 4-1959	0813-0855	09° 58' N	76° 06' E	25	0	30.72
						10	30.67
						20	29.35
415	1- 4-1959	1125-1845	09° 58' N	75° 47' E	60	0	30.55
						10	30.33
						20	29.83
						30	29.12
						50	28.72
416	1- 4-1959	2205-0009	09° 58' N	75° 21' E	>500	0	30.43
						10	30.45
						20	30.36
						30	29.50
						50	28.96
						75	28.74
						100	27.32
						150	19.95
						200	15.52
						300	12.67
						400	11.61
500	10.63						
417	2- 4-1959	0125-0245	09° 58' N	75° 35' E	>500	0	30.52
						10	30.43
						20	30.47
						30	29.88
						50	28.92
						75	28.47
						100	27.39
						150	20.19
						200	15.74
						300	12.62
						400	11.45
500	10.84						
418	2- 4-1959	0405-0420	09° 58' N	75° 41' E	76	0	30.28
						10	30.20
						20	30.25
						30	30.07
						50	28.80
419	2- 4-1959	0545-0609	09° 58' N	75° 51' E	46	0	30.50
						10	30.27

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.59	3.40	1	..	Horizontal	..	..
34.52	4.70	"	..	..	..	..
34.40	3.20	"	..	..	..	..
34.47	3.80	1	..	Vertical	58	..
34.43	2.95	"	..	..	..	..
34.27	4.75	"	..	..	..	..
34.43	4.00	"	..	..	..	..
34.71	3.60	"	..	..	..	..
34.36	3.70	1	..	Vertical	135	..
34.45	4.15	"	..	..	..	..
34.52	3.25	"	..	..	..	..
34.50	4.00	"	..	..	..	..
34.87	3.30	"	..	..	..	..
35.19	3.55	"	..	..	..	..
35.86	2.70	"	..	..	..	..
35.69	0.50	"	..	..	..	..
35.05	0.25	"	..	..	..	..
35.14	0.20	"	..	..	..	..
35.20	0.20	"	..	..	..	..
35.08	0.20	"	..	..	..	..
34.59	4.05	1	..	..	135	..
34.61	3.70	"	..	..	..	..
34.60	3.80	"	..	..	..	..
34.59	3.40	"	..	..	..	..
34.72	3.25	"	..	..	..	..
35.41	3.30	"	..	..	..	..
35.87	2.80	"	..	..	..	..
35.00	0.85	"	..	..	..	..
35.02	0.25	"	..	..	..	..
35.12	0.20	"	..	..	..	..
35.09	0.25	"	..	..	..	..
35.08	0.20	"	..	..	..	..
34.51	..	..	..	..	..	..
34.56	..	..	..	..	..	..
34.55	..	..	..	..	..	..
34.51	..	..	..	..	..	..
34.81	..	..	..	..	..	..
34.63	3.95	1	..	..	44	..
34.60	4.00	"	..	..	..	..

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						20	28.90
		1				30	28.66
4.0	2- 4-1959	0729-0743	09° 58' N	76° 01' E	32	0	30.62
						10	30.57
						20	30.58
421	2- 4-1959	0820-0835	09° 58' N	76° 06' E	14	0	30.75
						10	30.71
422	2- 4-1959	0925-0935	09° 58' N	76° 11' E	10	0	31.47
423	6- 4-1959	1740-1855	10° 02' N	75° 10' E	>500	0	31.35
						10	30.24
						20	30.33
						30	30.02
						50	29.64
						75	27.95
						100	26.20
						150	18.58
						200	15.03
						300	12.41
						400	11.26
						500	10.80
424	6- 4-1959	2310-2403	10° 03' N	74° 39' E	>500	0	30.22
						10	30.17
						20	30.18
						30	29.83
						50	29.00
						75	28.28
						100	27.04
						150	19.43
						200	15.62
						300	12.80
						400	11.80
						500	10.61
425	7- 4-1959	0435-0547	10° 03' N	74° 10' E	>500	0	29.76
						10	29.69
						20	29.58
						30	29.26
						50	29.10
						75	27.51
						100	24.71

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.52	3.05	..	..	..	..	..
34.69	2.80	..	..	..	..	..
34.60	..	1	..	..	..	..
34.62
34.58
34.61	3.40	..	..	..	..	..
34.60	3.30	..	..	..	..	..
34.85
34.44	Vertical	135	..
34.42
34.40
34.79
35.29
35.32
35.66
35.11
35.17
35.16
35.13
35.20
34.68	Vertical	135	..
34.66
34.70
34.71
35.09
35.50
35.93
35.21
25.05
35.10
35.13
35.09
32.78	Vertical	135	..
34.19
34.48
34.63
35.18
35.75
35.84

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						150	18.74
						200	15.99
						300	13.29
						400	11.67
						500	10.91
426	7- 4-1959	1000-1120	10° 02' N	73° 40' E	>500	0	30.07
						10	29.91
						20	30.01
						30	29.52
						50	29.03
						75	27.00
						100	25.08
						150	20.63
						200	16.59
						300	12.58
						400	11.42
						500	10.84
427	7- 4-1959	2100-	10° 05' N	73° 10' E	>500	0	30.47
						10	30.14
						20	30.06
						30	29.27
						50	27.85
						75	26.40
						100	26.04
						150	18.61
						200	15.77
						300	12.61
						400	11.62
						500	10.75
428	8- 4-1959	0220-0320	10° 05' N	72° 14' E	>500	0	30.24
						10	30.14
						20	30.05
						30	..
						50	28.96
						75	28.04
						100	..
						150	18.19
						200	15.48
						300	12.40
						400	11.24
						500	10.81

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35.05
35.12
35.13
35.21
35.17
34.33
34.38
34.60
34.79
34.74
34.90
35.07
35.22
35.05
35.10
35.15
35.06
34.34	Vertical	..	..
34.54
34.63
34.69
34.79
35.32
35.78
35.08
35.09
35.08
35.12
35.02
35.08	Vertical	..	..
35.08
35.09
35.35
85.88
36.08
35.83
35.16
34.92
35.02
35.06
34.95

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
429	8- 4-1959	1325-1415	10° 10' N	72° 18' E	>500		31.09
							30.11
							29.60
							29.03
							29.03
							26.99
							24.73
							19.00
							15.55
							12.69
							11.48
	10.84						
430	8- 4-1959	1705-1805	10° 20' N	72° 27' E	>500		30.26
							30.29
							29.86
							30.15
							29.79
							28.05
							26.16
							19.41
							15.71
							13.06
							11.82
	10.87						
431	8- 4-1959	2255-2346	10° 32' N	72° 38' E	>500		30.20
							30.24
							30.17
							29.76
							28.77
							28.42
							27.00
							17.98
							15.13
							12.70
							11.86
	10.84						
432	9- 4-1959	0545-0630	10° 38' N	72° 58' E	>500		30.24
							30.26
							30.46
							30.16
							29.91

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.74	Vertical	..	..
34.70
35.07
35.78
35.99
35.75
35.70
34.95
34.72
34.98
35.02
35.02
34.09	Vertical	..	..
34.31
34.47
34.70
35.01
35.90
35.92
35.11
34.98
35.03
35.07
35.08
34.43	Vertical	..	..
34.36
34.72
35.00
35.46
35.91
35.89
35.08
34.94
35.13
35.09
34.99
34.53	Vertical	..	..
34.51
34.60
34.61
35.07

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						75	28.64
						100	27.14
						150	20.05
						200	15.85
						300	12.82
						400	11.81
						500	10.87
433	9-4-1959	0940-	10° 44' N	73° 20' E	>500	0	30.38
						10	30.33
						20	30.05
						30	29.98
						50	28.96
						75	28.73
						100	27.78
						150	..
						200	16.03
						300	13.04
						400	11.97
						500	11.26
434	9-4-1959	1540-1720	10° 49' N	73° 39' E	>1000	0	31.03
						10	30.54
						20	30.47
						30	29.89
						50	28.78
						75	28.61
						100	26.69
						150	19.06
						200	15.41
						300	..
						400	11.64
						500	10.92
						600	10.04
						700	9.44
						800	8.36
						1000	7.26
435	9-4-1959	2140-2250	10° 40' N	76° 06' E	>500	0	30.38
						10	30.37
						20	30.34
						30	30.04
						50	29.16
						75	28.40

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35.75	..	..	..	..	..	..
35.65	..	..	..	..	..	..
35.23	..	..	..	..	..	..
35.11	..	..	..	..	..	..
35.10	..	..	..	..	..	..
35.12	..	..	..	..	..	..
35.17	..	..	..	..	..	..
34.23	3.90	..	..	Vertical	135	..
34.26	3.45	..	..	..	..	..
34.32	3.85	..	..	..	..	..
34.59	3.90	..	..	..	..	..
34.89	3.80	..	..	..	..	..
35.74	3.75	..	..	..	..	..
35.64	3.15	..	..	..	..	..
35.00	0.40	..	..	..	..	..
34.99	0.30	..	..	..	..	..
35.09	0.25	..	..	..	..	..
35.03	0.30	..	..	..	..	..
35.08	0.30	..	..	..	..	..
34.20	3.70	..	..	Vertical	135	..
34.45	3.15	..	..	..	..	..
34.78	3.30	..	..	..	..	..
34.63	3.90	..	..	..	..	..
35.16	3.30	..	..	..	..	..
35.96	3.50	..	..	..	..	..
35.76	2.55	..	..	..	..	..
35.16	0.35	..	..	..	..	..
35.12	0.30	..	..	..	..	..
35.16	0.25	..	..	..	..	..
35.11	0.30	..	..	..	..	..
35.23	0.25	..	..	..	..	..
35.10	0.25	..	..	..	..	..
35.11	0.35	..	..	..	..	..
..
34.99	0.80	..	..	..	..	..
34.63	..	..	..	Vertical	135	..
34.65	..	..	..	..	..	..
34.60	..	..	..	..	..	..
34.68	..	..	..	..	..	..
35.20	..	..	..	..	..	..
35.71	..	..	..	..	..	..

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						100	26.55
						150	19.31
						200	16.12
						300	12.16
						400	11.61
						500	11.07
436	10-4-1959	0330-0435	10° 32' N	74° 35' E	>500	0	33.00
						10	33.08
						20	32.81
						30	29.20
						50	29.03
						75	28.75
						100	27.04
						150	18.68
						200	16.73
						300	12.44
						400	10.78
						500	10.75
437	24-4-1959	0940-1115	10° 38' N	74° 18' E	>500	0	30.70
						10	30.64
						20	30.56
						30	30.44
						50	29.12
						75	28.39
						100	25.34
						150	16.83
						200	14.92
						300	12.54
						400	11.40
						500	11.03
438	24-4-1959	1545-1600	10° 47' N	73° 45' E	>500	0	30.90
439	24-4-1959	1730-	10° 49' N	73° 40' E	>500	0	30.60
440	25-4-1959	0000-0200	11° 02' N	73° 25' E	>500	0	30.45
						10	30.52
						20	30.54
						30	30.30
						50	29.18
						75	28.76
						100	26.90

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35-79
35-26
35-09
35-04
35-13
35-15
34-62	Vertical	135	..
34-49
34-62
34-52
34-83
35-41
35-68
35-17
35-16
35-19
35-21
35-26
34-57	135	..
34-62
34-52
34-69
35-30
36-02
35-84
35-19
35-25
35-32
35-32
35-31
..	Vertical	..	Plankton only
..	Vertical	..	Plankton Station
34-60	4-50	..	..	..	135	..
34-60	4-60	..	..	..	..	..
34-61	4-55	..	..	..	..	..
34-59	4-50	..	..	..	..	..
35-03	4-35	..	..	..	..	..
35-98	4-15	..	..	..	..	..
36-11	4-10	..	..	..	..	..

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						150	18.96
						200	15.31
						300	12.44
						400	11.82
						500	10.84
441	25- 4-1959	0530-0630	11° 19' N	73° 10' E	>500	0	30.55
						10	30.53
						20	30.54
						30	30.46
						50	28.87
						75	28.23
						100	24.48
						150	19.38
						200	16.55
						300	..
						400	11.46
						500	10.90
442	26- 4-1959	1040-	11° 29' N	72° 59' E	>500	0	30.40
443	26- 4-1959	1130-	11° 35' N	72° 51' E	>500	0	30.62
						10	30.44
						20	30.38
						30	29.96
						50	29.07
						75	29.25
						100	25.85
						150	18.73
						200	15.62
						300	13.50
						400	11.92
						500	11.10
444	27- 4-1959	0340-	11° 40' N	72° 28' E	>500	0	30.41
						10	30.31
						20	30.32
						30	30.33
						50	29.24
						75	27.76
						100	27.03
						150	19.78
						200	15.92
						300	13.09

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35-28	4-30	..	..	..	..	..
35-29	..	..	..	..	..	..
35-25	0-30	..	..	..	..	..
35-42	0-30	..	..	..	..	..
35-32	0-30	..	..	..	..	..
34-59	4-50	..	..	..	..	..
34-58	4-60	..	..	..	..	..
34-65	4-60	..	..	..	..	..
34-69	4-50	..	..	..	..	..
35-48	4-40	..	..	..	..	..
36-03	3-80	..	..	..	..	..
35-69	1-90	..	..	..	..	..
35-48	0-40	..	..	..	..	..
35-26	0-20	..	..	..	..	..
34-56	..	..	..	..	..	..
35-30	0-30	..	..	..	..	..
35-28	0-35	..	..	..	..	..
..	..	..	..	Vertical	..	Plankton Station
35-03	4-40	..	..	Vertical	135	..
34-90	4-50	..	..	..	..	..
35-02	4-35	..	..	..	..	..
35-22	4-75	..	..	..	..	..
36-05	4-40	..	..	..	..	..
36-04	4-15	..	..	..	..	..
35-99	2-45	..	..	..	..	..
35-26	0-30	..	..	..	..	..
35-23	0-15	..	..	..	..	..
35-32	0-20	..	..	..	..	..
35-27	0-20	..	..	..	..	..
35-30	0-35	..	..	..	..	..
34-71	..	..	..	Vertical	135	..
34-72	..	..	..	..	..	..
34-69	..	..	..	..	..	..
34-74	..	..	..	..	..	..
35-33	..	..	..	..	..	..
36-14	..	..	..	..	..	..
36-62	..	..	..	..	..	..
35-34	..	..	..	..	..	..
35-17	..	..	..	..	..	..
35-28	..	..	..	..	..	..

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						400	11.84
						500	11.19
445	27- 4-1959	0750-	11° 39' N	72° 13' E	>500	0	30.30
446	28- 4-1959	0835-	11° 20' N	72° 11' E	>500	0	30.50
						10	30.45
						20	30.47
						30	30.31
						50	29.63
						75	28.94
						100	27.25
						150	19.04
						200	16.39
						300	13.30
						400	11.90
						500	11.26
447	28- 4-1959	1211-	11° 02' N	72° 10' E	>500	0	30.61
						10	30.45
						20	30.31
						30	30.33
						50	29.68
						75	28.80
						100	28.22
						150	20.29
						200	16.22
						300	13.50
						400	12.08
						500	11.33
448	29- 4-1959	1340-1505	10° 46' N	72° 26' E	>500	0	30.90
						10	30.42
						20	30.43
						30	30.43
						50	29.29
						75	28.05
						100	26.78
						150	19.65
						200	14.84
						300	12.72
						400	11.58
						500	10.79
449	29- 4-1959	1950-	10° 39' N	72° 42' E	>500	0	30.82

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35.25	..	..	..	..	..	..
35.34	..	..	..	..	..	..
..	..	..	..	Vertical	..	Plankton Station
34.97	4.35	..	..	..	135	..
34.97	4.40	..	..	..	..	..
34.99	4.40	..	..	..	..	..
35.02	4.40	..	..	..	..	..
35.25	4.20	..	..	..	..	..
35.81	4.50	..	..	..	..	..
36.62	3.45	..	..	..	..	..
35.39	0.20	..	..	..	..	..
35.21	0.35	..	..	..	..	..
35.24	0.50	..	..	..	..	..
35.32	0.30	..	..	..	..	..
35.33	0.55	..	..	..	..	..
..	4.70	..	Calm	Vertical	135	..
34.99	4.60	..	..	..	..	..
34.99	4.55	..	..	..	..	..
35.06	4.55	..	..	..	..	..
35.19	4.80	..	..	..	..	..
35.81	4.50	..	..	..	..	..
36.00	4.20	..	..	..	..	..
35.40	0.55	..	..	..	..	..
35.16	0.30	..	..	..	..	..
35.16	0.35	..	..	..	..	..
35.39	0.30	..	..	..	..	..
35.34	0.35	..	..	..	..	..
34.77	4.50	..	Calm	Vertical	135	..
34.72	4.50	..	..	..	..	..
34.88	4.40	..	..	..	..	..
34.94	4.50	..	..	..	..	..
35.52	4.55	..	..	..	..	..
36.00	3.00	..	..	..	..	..
35.93	3.80	..	..	..	..	..
35.16	0.55	..	..	..	..	..
35.05	0.80	..	..	..	..	..
35.21	0.50	..	..	..	..	..
35.22	0.30	..	..	..	..	..
35.34	0.60	..	..	..	..	..
..	..	..	..	Vertical	135	..

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
450	30- 4-1959	0140-0255	10° 25' N	73° 08' E	> 500	0	30.75
						10	30.73
						20	30.54
						30	30.52
						50	29.22
						75	28.92
						100	27.79
						150	17.02
						200	16.14
						300	12.16
400	11.42						
500	11.68						
451	30- 4-1959	0530-	10° 17' N	73° 24' E	> 500	..	..
452	30- 4-1959	0830-0940	10° 15' N	73° 39' E	> 500	0	30.60
						10	30.54
						20	29.80
						30	29.24
						50	29.11
						75	28.25
						100	26.24
						150	19.40
						200	15.09
						300	12.44
400	11.10						
500	10.46						
453	30- 4-1959	1115-	10° 04' N	73° 40' E	> 500	0	30.92
454	30- 4-1959	1430-	10° 03' N	73° 55' E	> 500	0	31.40
455	30- 4-1959	1920-1955	10° 02' N	74° 24' E	> 500	0	31.05
456	30- 4-1959	2150-	10° 02' N	74° 40' E	> 500	0	30.90
457	8- 5-1959	1043-	09° 58' N	76° 11' 30' E	56	0	32.07
						10	30.64
						20	29.48
						30	29.19
						50	28.07
458	11- 5-1959	1747-1832	09° 58' N	76° 06' E	27	0	32.16
						10	29.69
						20	29.53

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.61	4.50	..	Calm	Vertical	135	..
34.53	4.55	..	"	..	..	..
34.52	4.55	..	"	..	..	..
34.52	4.50	..	"	..	..	..
35.09	4.55	..	"	..	..	..
35.63	4.00	..	"	..	..	..
35.97	3.40	..	"	..	..	..
35.22	0.20	..	"	..	..	..
35.16	0.35	..	"	..	..	..
35.16	0.55	..	"	..	..	..
35.21	0.35	..	"	..	..	..
34.69	4.40	..	"	..	..	..
..	..	..	..	Vertical	135	B.T. + Plankton Station
34.60	4.40	..	Calm	Vertical	135	..
34.58	4.40	..	"	..	..	..
34.88	4.50	..	"	..	..	..
34.96	4.40	..	"	..	..	..
35.56	4.20	..	"	..	..	..
35.91	3.65	..	"	..	..	..
35.82	2.60	..	"	..	..	..
35.23	0.50	..	"	..	..	..
35.15	0.40	..	"	..	..	..
35.19	0.55	..	"	..	..	..
35.16	0.50	..	"	..	..	..
35.28	4.15	..	"	..	..	..
..	..	..	..	Vertical	135	B.T. + Plankton only
..	..	..	..	Vertical	135	B.T. + Plankton only
..	..	..	..	Vertical	135	B.T. + Plankton only
..	..	..	..	Vertical	135	B.T. + Plankton only
34.67	4.30	0-1	..	Vertical	54	Secchi disc
34.69	4.60	"	..	..	..	..
34.79	4.45	"	..	..	..	..
35.01	4.20	"	..	..	..	..
35.14	2.95	"	..	..	..	..
34.62	4.15	1	..	Vertical	..	Secchi disc
34.82	3.90	"	..	..	..	..
34.87	3.50	"	..	..	..	..

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
459	11- 5-1959	2027-2048	10° 07' N	75° 56' E	44	0	30.85
						10	30.71
						20	..
						30	28.94
460	11- 5-1959	2255-2340	10° 17' N	75° 44' E	60	0	30.92
						10	30.89
						20	30.88
						30	29.74
461	12- 5-1959	0155-0234	10° 27' N	75° 32' E	87	0	31.10
						10	31.07
						20	29.37
						30	..
462	12- 5-1959	0435-0548	10° 37' N	75° 20' E	325	0	30.97
						10	30.99
						20	31.00
						30	..
463	12- 5-1959	0930-1017	10° 50' N	75° 03' E	>500	0	31.22
						10	..
						20	31.13
						30	30.75
464	12- 5-1959	1304-1433	11° 04' N	74° 47' E	>500	0	32.31
						10	..
						20	31.19
						30	..

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.58	..	..	Calm	..	..	..
34.77	..	..	"	..	..	..
34.88	..	..	"	..	..	..
34.96	..	..	"	..	..	..
34.79	4.50	..	Calm	Vertical	58	..
34.81	4.40	..	"	..	..	..
34.78	4.40	..	"	..	..	..
34.90	4.50	..	"	..	..	..
34.92	3.50	..	"	..	..	..
34.78	..	0-1	..	Vertical	85	..
34.81	..	..	..	..	..	..
34.65	..	"	..	..	..	..
34.87	..	"	..	..	..	..
35.38	..	"	..	..	..	..
35.44	..	"	..	..	..	..
34.64	4.35	0	..	Vertical	135	..
34.60	4.50	"	..	..	..	..
34.78	..	"	..	..	..	..
..	..	"
35.16	3.65	"	..	..	..	..
35.46	0.30	"	..	..	..	..
35.53	2.85	"	..	..	..	..
35.15	1.00	"	..	..	..	..
35.15	3.15	"	..	..	..	..
34.94	..	..	Calm	Vertical	135	..
35.00	..	..	"	..	..	..
34.83	..	..	"	..	..	..
34.79	..	..	"	..	..	..
35.24	..	..	"	..	..	..
35.72	..	..	"	..	..	..
35.49	..	..	"	..	..	..
35.06	..	..	"	..	..	..
35.09	..	..	"	..	..	..
35.17	..	..	"	..	..	..
35.26	..	..	"	..	..	..
35.28	..	..	"	..	..	..
34.79	4.45	1	..	Vertical	135	..
34.84	4.45	"	..	..	..	..
34.86	4.35	"	..	..	..	..

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						30	30.40
						50	29.49
						75	27.53
						100	23.51
						150	17.83
						200	14.55
						300	12.32
						400	11.43
						500	10.99
465	12- 5-1959	1355-2021	11° 21' N	74° 24' E	>500	0	31.13
						10	30.87
						20	30.15
						30	29.84
						50	29.25
						75	28.42
						100	25.60
						150	17.16
						200	14.41
						300	12.46
						400	11.58
						500	10.92
466	12- 5-1959	2140-2315	11° 22' N	74° 34' E	>500	0	31.29
						10	31.13
						20	31.02
						30	29.94
						50	28.92
						75	27.11
						100	23.73
						150	16.95
						200	14.46
						300	11.96
						400	11.33
						500	11.01
467	13- 5-1959	0040-0120	11° 23' N	74° 44' E	121	0	31.07
						10	..
						20	31.00
						30	30.61
						50	28.98
						75	27.00
						100	22.10

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.86	4.45	1	..	..	..	..
35.43	4.65	..	..	..	..	..
35.71	3.15	..	..	..	..	..
35.43	1.70	..	..	..	..	..
35.07	0.35	..	..	..	..	..
34.99	0.30	..	..	..	..	..
35.09	0.20	..	..	..	..	..
35.08	0.20	..	..	..	..	..
35.15	0.20	..	..	..	..	..
34.66	4.30	1-2	Calm	Vertical	135	..
34.82	4.45	..	..	..	..	..
34.74	4.40	..	..	..	..	..
35.05	4.60	..	..	..	..	..
35.07	4.70	..	..	..	..	..
35.88	4.00	..	..	..	..	..
35.70	2.35	..	..	..	..	..
35.12	0.10	..	..	..	..	..
35.07	0.20	..	..	..	..	..
35.11	0.20	..	..	..	..	..
35.16	0.15	..	..	..	..	..
35.18	0.20	..	..	..	..	..
34.80	..	..	Calm	Vertical	135	..
34.90	..	..	..	..	..	..
34.87	..	..	..	..	..	..
35.00	..	..	..	..	..	..
35.43	..	..	..	..	..	..
35.72	..	..	..	..	..	..
35.43	..	..	..	..	..	..
35.05	..	..	..	..	..	..
35.07	..	..	..	..	..	..
35.13	..	..	..	..	..	..
35.15	..	..	..	..	..	..
35.19	..	..	..	..	..	..
34.74	4.25	3	Calm	Vertical	139	..
34.81	4.40	..	..	..	..	..
34.90	4.35	..	..	..	..	..
34.85	4.35	..	..	..	..	..
35.43	0.05	..	..	..	..	..
35.61	2.95	..	..	..	..	..
35.34	1.45	..	..	..	..	..

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
468	13- 5-1959	0243-0314	11° 24' N	74° 54' E	72	0	30.84
						10	30.87
						20	30.94
						30	30.52
						50	27.81
469	13- 5-1959	0435-0510	11° 25' N	75° 03' E	58	0	31.05
						10	31.04
						20	31.05
						30	29.57
						50	28.10
470	13- 5-1959	0653-0725	11° 26' N	75° 12' E	47	0	31.12
						10	31.07
						20	31.07
						30	29.57
471	13- 5-1959	0920-0940	11° 27' N	75° 22' E	36	0	30.85
						10	30.75
						20	30.82
						30	29.03
472	13- 5-1959	1010-1027	11° 28' N	75° 27' E	22	0	30.90
						10	29.74
						20	29.43
473	13- 5-1959	1102-	11° 28' N	75° 32' E	18	0	31.87
						10	30.56
474	14- 5-1959	1313-1328	10° 37' N	75° 53' E	18	0	32.10
						10	31.28
475	14- 5-1959	1403-1414	10° 37' N	75° 48' E	27	0	31.98
						10	31.26
						20	30.94
476	14- 5-1959	1459-1506	10° 37' N	75° 43' E	38	0	31.52
						10	31.19
						20	31.16
						30	29.09
477	14- 5-1959	1635-1705	10° 37' N	75° 33' E	59	0	31.40
						10	31.14
						20	30.15
						30	28.57
						50	28.41

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.67	..	2	Calm	Vertical	70	..
34.74	..	..	..	..	..	..
34.92	..	..	..	..	..	..
34.89	..	..	..	..	..	..
35.39	..	..	..	..	..	..
34.93	4.40	1	..	..	..	..
34.86	4.45	..	..	..	..	..
34.98	4.35	..	..	..	..	..
34.87	4.29	..	..	..	..	..
35.43	2.95	..	..	..	..	..
34.92	..	..	..	Vertical	45	..
34.88	..	..	..	..	..	..
34.98	..	..	..	..	..	..
34.92	..	..	..	..	..	..
34.77	4.25	..	..	..	..	..
34.72	4.30	..	..	..	..	..
34.91	4.25	..	..	..	..	..
35.09	3.45	..	..	..	..	..
34.81	..	..	..	..	..	..
34.94	..	..	..	..	..	..
34.98	..	..	..	..	..	..
34.83	4.35	..	..	..	..	..
34.96	4.00	..	..	..	..	..
34.90	..	..	..	..	..	..
34.93	..	..	..	..	..	..
34.89	4.50	..	..	..	..	..
34.95	4.60	..	..	..	..	..
34.93	4.30	..	..	..	..	..
34.94	..	..	Calm	..	..	..
34.94	..	..	..	..	..	..
34.98	..	..	..	..	..	..
34.97	..	..	..	..	..	..
34.81	4.40	..	..	Vertical	57	..
34.80	4.15	..	..	..	..	..
34.76	4.50	..	..	..	..	..
34.99	3.50	..	..	..	..	..
..

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
478	14- 5-1959	1832-1903	10° 37' N	75° 23' E	117	0	31.21
						10	31.15
						20	31.16
						30	29.61
						50	28.60
						75	27.81
						100	26.93
479	14- 5-1959	2036-2240	10° 37' N	75° 13' E	>500	0	31.02
						10	30.98
						20	31.01
						30	30.75
						50	28.93
						75	27.50
						100	25.64
						150	13.00
						200	12.75
						300	12.50
						400	11.50
500	10.50						
480	15- 5-1959	0019-0217	10° 37' N	75° 03' E	>500	0	31.08
						10	31.07
						20	31.07
						30	..
						50	29.03
						75	28.43
						100	26.27
						150	17.77
						200	15.10
						300	12.41
						400	11.47
500	11.01						
481	15- 5-1959	0818-	10° 00' N	75° 07' E	>500	0	30.90
						10	30.85
						20	30.79
						30	30.16
						50	28.83
						75	28.72
						100	24.27
						150	17.77
200	15.10						
300	12.41						

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34-70	..	0-1	Calm	Vertical	115	..
34-76	..	"	"	..	..	..
34-74	..	"	"	..	..	..
34-65	..	"	"	..	..	..
34-97	..	"	"	..	..	..
35-42	..	"	"	..	..	..
35-77	..	"	"	..	..	..
34-62	4.25	1	..	Vertical	135	..
34-58	4.25	"	..	..	..	..
34-66	4.30	"	..	..	..	..
34-65	4.05	"	..	..	..	..
35-08	3.90	"	..	..	..	..
34-66	4.35	"	..	..	..	..
35-03	4.65	"	..	..	..	..
35-70	2.55	"	..	..	..	..
35-07	0.50	"	..	..	..	..
35-17	0.25	"	..	..	..	..
35-23	0.20	"	..	..	..	..
35-22	0.20	"	..	..	..	..
34-68	..	..	Calm	Vertical	135	..
34-64	..	..	"	..	..	..
34-67	..	..	"	..	..	..
34-66	..	..	"	..	..	..
35-20	..	..	"	..	..	..
35-57	..	..	"	..	..	..
35-89	..	..	"	..	..	..
35-14	..	..	"	..	..	..
35-10	..	..	"	..	..	..
35-12	..	..	"	..	..	..
35-14	..	..	"	..	..	..
35-21	..	..	"	..	..	..
34-17	..	3	..	Vertical	135	..
34-70	..	"	..	..	..	..
34-70	..	"	..	..	..	..
34-83	..	"	..	..	..	..
35-07	..	"	..	..	..	..
35-28	..	"	..	..	..	..
35-52	..	"	..	..	..	..
34-94	..	"	..	..	..	..
34-98	..	"	..	..	..	..
35-08	..	"	..	..	..	..

Vessel: R. V. KALAYA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
482	15-5-1959	1141-1336	10° 00' N	75° 17' E	>500	400	11.45
						500	10.98
						0	31.04
						10	30.88
						20	30.93
						30	30.69
						50	28.85
						75	25.85
						100	23.27
						150	18.90
						200	14.53
483	15-5-1959	1457-1746	09° 59' N	75° 27' E	>500	300	12.13
						400	11.23
						500	10.80
						0	31.40
						10	30.77
						20	30.77
						30	29.25
						50	27.51
						75	26.47
						100	23.75
						150	18.84
200	14.83						
484	15-5-1959	1906-1929	09° 58' N	17° 37' E	92	300	12.18
						400	11.40
						500	10.79
						0	31.16
						10	31.20
						20	29.71
485	15-5-1959	2045-	09° 58' N	75° 47' E	59	30	29.07
						50	28.08
						75	26.11
						0	31.11
						10	30.87
						20	30.01
486	15-5-1959	2244-2301	09° 58' N	75° 57' E	36	30	28.99
						50	28.64
						75	28.30
						0	30.75
						10	30.77

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35·10	..	..	..	..	..	..
35·22	..	..	..	..	..	..
34·17	4·25	2	..	Vertical	135	..
34·60	4·25	..	..	..	..	..
34·60	4·25	..	..	..	..	..
34·73	4·10	..	..	..	..	..
35·07	4·10	..	..	..	..	..
35·24	2·80	..	..	..	..	..
35·42	1·80	..	..	..	..	..
34·94	0·60	..	..	..	..	..
35·08	0·20	..	..	..	..	..
35·10	0·40	..	..	..	..	..
35·08	0·35	..	..	..	..	..
35·24	0·30	..	..	..	..	..
34·57	..	..	..	Vertical	135	..
34·51	..	..	..	..	..	..
34·79	..	..	..	..	..	..
34·77	..	..	..	..	..	..
34·91	..	..	..	..	..	..
35·23	..	..	..	..	..	..
35·22	..	..	..	..	..	..
35·05	..	..	..	..	..	..
35·07	..	..	..	..	..	..
35·05	..	..	..	..	..	..
35·05	..	..	..	..	..	..
35·09	..	..	..	..	..	..
34·64	4·60	..	..	..	90	..
34·69	4·60	..	..	..	..	..
34·74	4·05	..	..	..	..	..
34·76	4·20	..	..	..	..	..
35·07	3·60	..	..	..	..	..
35·28	2·80	..	..	..	..	..
34·58	4·55	..	..	..	57	..
34·62	4·65	..	..	..	..	..
34·74	4·30	..	..	..	..	..
34·83	4·20	..	..	..	..	..
35·16	3·95	..	..	..	..	..
35·16	3·55	..	..	..	..	..
34·60	..	2	..	..	..	..
34·68	..	..	..	..	..	..

- Vessel : 1. R. V. KALAVA
 2. FLYING FISH for stations 491 and 492.
 3. PRATAP for stations 493 and 494.

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						20	30.39
						30	29.97
487	15-5-1959	2355-0006	09° 57' N	76° 02' E	27	0	30.62
						10	34.43
						20	29.15
488	16-5-1959	0107-	09° 58' N	76° 07' E	25	0	30.84
						10	30.41
489	3-6-1959	1155-1315	09° 58' N	75° 51' E	54	0	29.68
						10	29.69
						20	29.12
						30	27.51
						50	22.80
490	3-6-1959	1505-	09° 58' N	76° 01' E	38	0	29.80
491	10-6-1959	0852-0928	09° 58' N	76° 07' E	27	..	..
492	29-7-1959	0805-0930	09° 58' N	76° 07' E	27	0	27.00
						10	..
						20	26.10
493	19-8-1959	1033-1225	09° 48' N	75° 59' E	52	0	26.65
						10	26.43
						20	24.25
						30	22.38
						50	22.31
494	19-8-1959	1402-1425	09° 55' N	76° 06' E	27	0	26.12
						10	24.01
						20	23.84
495	24-8-1959	1045-1135	09° 51' N	76° 04' E	39	0	26.45
						10	25.33
						20	..
						30	23.61
496	24-8-1959	1325-1428	09° 55' N	76° 06' E	25	0	25.27
						10	24.88
						20	24.03

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.59	..	2	..	..	..	..
34.83	..	..	..	..	..	..
34.60	4.40	..	..	..	..	..
34.83	4.00	..	..	..	..	..
34.90	1.80	..	..	..	..	..
34.70	..	2	..	..	..	..
34.70	..	..	..	..	..	..
34.58	4.10	4	..	Vertical+ Horizontal	52	Secchi disc
35.31	4.10	..	..	..	..	..
35.15	4.30	..	..	..	..	..
35.49	1.60	..	..	..	..	..
35.33	1.40	..	..	..	..	..
..	..	..	..	..	36	B.T. Station
..	..	3	..	Horizontal	25	B.T. Station
23.73	..	2	..	..	25	..
34.46	..	..	..	..	..	..
34.64	..	..	..	..	..	..
32.78	5.00	3	..	Vertical	50	..
33.19	5.35	..	..	..	..	..
35.03	1.65	..	..	..	..	..
34.98	0.90	..	..	..	..	..
35.07	0.60	..	..	..	..	..
33.14	6.10	2	..	Vertical	25	Secchi disc
35.03	1.90	..	..	..	..	..
35.04	0.90	..	..	..	..	..
33.88	5.30	..	..	Horizontal	37	Secchi disc
34.56	3.50	..	..	..	..	..
..
34.95	0.50	..	..	..	..	..
33.88	5.00	1	..	Vertical	23	Secchi disc
34.63	3.10	..	..	..	..	..
35.11	0.30	..	..	..	..	..

Vessel: 1. PRATAP
2. FLYING FISH for station 503.

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
497	17-9-1959	1040-	09° 48' N	75° 59' E	50	0	26.20
						10	25.39
						20	23.41
						30	21.47
						50	21.02
498	17-9-1959	1413-1440	09° 54' N	76° 07' E	23	0	26.23
						10	22.37
						20	22.03
499	6-10-1959	0948-1238	09° 48' N	75° 59' E	52	0	26.06
						10	24.11
						20	22.26
						30	21.03
						50	20.31
500	6-10-1959	1316-1350	09° 54' N	76° 07' E	52	0	26.29
						10	22.57
						20	22.24
501	27-10-1959	1100-1135	09° 29' N	76° 02' E	52	0	28.20
						10	27.94
						20	..
						30	27.11
						50	26.81
502	27-10-1959	1515-1535	09° 22' N	76° 09' E	36	0	27.90
						10	28.21
						20	27.64
						30	27.23
503	5-11-1959	0943-1120	09° 50' N	75° 53' E	53	0	27.99
						10	27.84
						20	26.87
						30	..
						50	24.70
						75	24.61
504	5-11-1959	1324-1400	09° 58' N	76° 06' E	23	0	28.14
						10	27.39
						20	26.94
505	8-12-1959	1404-	09° 53' N	76° 12' E	13	0	28.50
						10	28.70

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
33·84	4·55	2	..	Vertical	48	Secchi disc
33·97	4·55	..	..	..	..	..
34·95	1·40	..	..	..	..	..
34·99	0·60	..	..	..	..	..
34·99	..	..	..	..	..	..
32·77	4·30	4	..	..	21	Secchi disc
34·95	0·70	..	..	..	..	..
34·90	0·10	..	..	..	..	..
31·92	4·65	1	..	Vertical	50	Secchi disc
34·94	2·35	..	..	..	..	..
35·03	0·10	..	..	..	..	..
35·12	0·15	..	..	..	..	..
34·98	0·10	..	..	..	..	..
26·16	4·30	..	..	Vertical	23	Secchi disc
34·98	0·40	..	..	..	..	..
35·12	0·20	..	..	..	..	..
35·43	4·10	..	Calm	..	..	..
35·29	3·60	..	..	..	..	..
..
35·61	3·25	..	..	..	..	..
35·61	2·60	..	..	..	..	..
35·16	4·05	..	2	..	34	..
35·16	4·30	..	..	..	..	..
35·34	3·20	..	..	..	..	..
35·29	3·10	..	..	..	..	..
33·25	4·50	1	..	..	51	..
34·55	3·85	..	..	..	..	..
35·76	2·60	..	..	..	..	..
35·76	1·95	..	..	..	..	..
35·52	1·30	..	..	..	..	..
35·47	0·85	..	..	..	..	..
35·16	4·15	0	1	Vertical	21	..
35·20	3·20	..	..	..	..	..
35·52	1·45	..	..	..	..	..
32·29	..	2	..	..	..	Secchi disc
32·79	..	..	..	..	..	..

- Vessel* : 1. FLYING FISH for station 504.
2. PRATAP from 506-508 (?), 505 medium boat (?).

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
506	10-12-1959	1315-	09° 57' N	75° 53' E	54	0	29.16
						10	28.40
						20	28.52
						30	28.55
						50	28.38
						75	27.96
507	13-12-1959	1740-	09° 55' N	76° 06' E	23	0	28.94
						10	28.29
						20	28.41
508	15-12-1959	0335-0531	09° 12' 30" N	75° 27' E	>500	0	28.55
						10	28.81
						20	28.78
						30	28.64
						50	28.60
						75	28.46
						100	28.64
						150	18.84
						200	15.15
300	14.94						
400	11.44						
500	..						
509	15-12-1959	..	09° 15' 30" N	75° 36' E	>500	0	28.60
						10	28.60
						20	28.84
						30	27.92
						50	27.85
						75	27.48
						100	27.00
						150	20.50
						200	13.89
						300	13.19
400	11.79						
500	10.76						
510	15-12-1959	..	09° 19' N	75° 46' E	361	0	28.59
						10	28.15
						20	28.61
						30	28.63
						50	28.54

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
32-29	4.30	1	..	..	52	Secchi disc
32-34	3.25	..	..	..	..	..
32-82	4.25	..	..	..	..	..
33-35	4.20	..	..	..	..	..
33-98	4.10	..	..	..	..	..
34-51	3.40	..	..	..	..	..
32-00	4.40	1	..	..	21	Secchi disc
32-46	4.30	..	..	..	..	..
32-69	4.20	..	..	..	..	..
34-66	..	0	..	..	..	..
35-08	..	..	..	..	..	..
35-23	..	..	..	..	..	..
35-43	..	..	..	..	..	..
35-52	..	..	..	..	..	..
36-27	..	..	..	..	..	..
..
35-10	..	..	..	..	..	..
35-07	..	..	..	..	..	..
35-22	..	..	..	..	..	..
35-18	..	..	..	..	..	..
35-66	..	..	..	..	..	..
34-76	4.30	..	..	..	..	..
34-74	4.30	..	..	..	135	..
35-26	4.55	..	..	..	..	..
35-27	3.65	..	..	..	..	..
35-37	3.85	..	..	..	..	..
36-03	3.44	..	..	..	..	..
36-14	3.55	..	..	..	..	..
35-34	3.95	..	..	..	..	..
35-11	0.35	..	..	..	..	..
35-23	0.20	..	..	..	..	..
35-16	0.40	..	..	..	..	..
35-12	0.50	..	..	..	..	..
33-08	4.55	..	..	..	135	..
33-76	4.50	..	..	..	..	..
34-38	4.40	..	..	..	..	..
34-70	4.40	..	..	..	..	..
35-24	3.40	..	..	..	..	..

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.						
			Lat.	Long.									
511	15-12-1959	..	09° 22' N	75° 56' E	118	0	29.40						
						10	28.47						
						20	28.47						
						30	28.54						
						50	28.34						
512	15-12-1959	..	09° 24' N	76° 00' E	74	0	28.41						
						10	28.15						
						20	28.59						
						30	28.80						
						50	28.84						
513	15-12-1959	..	09° 25' N	76° 06' E	76	0	28.88						
						10	28.24						
						20	28.92						
						30	28.81						
						50	28.78						
514	15-12-1959	..	09° 28' N	76° 15' E	13	0	29.05						
						10	28.43						
						515	15-12-1959	..	09° 41' N	76° 12' E	18	0	28.73
												10	28.56
												516	15-12-1959	..	09° 40' N	76° 08' E	26	0	28.64
10	28.47												
20	28.41												
517	15-12-1959	..	09° 39' N	76° 02' 30" E	44	0	28.18						
						10	28.17						
						20	28.22						
						30	28.20						
						518	15-12-1959	..	09° 37' 30" N	75° 58' E	55	0	28.20
10	28.19												
20	28.25												
30	28.35												
50	25.57												

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35-52	1.50	..	..	..	..	..
35-38	0.95	..	..	..	..	..
35-17	0.55	..	..	..	..	..
35-07	0.45	..	..	..	..	..
35-16	..	..	..	..	..	..
32-41	4.35	..	..	..	116	..
33-07	4.30	..	..	..	..	..
33-56	4.55	..	..	..	..	..
33-86	4.50	..	..	..	..	..
35-45	4.45	..	..	..	..	..
35-53	4.20	..	..	..	..	..
..
32-32	..	..	..	..	..	..
32-40	..	..	..	..	..	..
33-69	..	..	..	..	..	..
34-48	..	..	..	..	..	..
34-78	..	..	..	..	..	..
32-38	4.90	..	..	..	74	..
32-56	4.70	..	..	..	..	..
33-03	5.10	..	..	..	..	..
33-31	4.80	..	..	..	..	..
34-07	4.65	..	..	..	..	..
32-69	..	..	..	..	..	..
32-62	..	..	..	..	..	..
32-63	..	..	..	..	..	..
32-66	..	..	..	..	..	..
32-66	4.10	..	..	..	..	..
32-54	4.75	..	..	..	..	..
32-81	4.55	..	..	..	..	..
32-54	..	..	..	..	42	..
32-63	..	..	..	..	..	..
32-68	..	..	..	..	..	..
32-68	..	..	..	..	..	..
32-32	..	..	..	..	..	..
32-58	5.10	..	..	..	..	..
32-84	4.80	..	..	..	..	..
33-01	4.50	..	..	..	..	..
33-70	4.45	..	..	..	..	..

Vessel : R. V. KALAYA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
519	15-12-1959	..	09° 36' N	75° 53' E	68	0	28.33
						10	28.27
						20	28.65
						30	28.36
						50	28.56
520	16-12-1959	0110-0226	09° 34' N	75° 43' E	304	0	28.25
						10	28.49
						20	28.61
						30	28.71
						50	28.51
						75	28.62
						100	27.83
150	23.68						
521	16-12-1959	0310-0516	09° 31' N	75° 33' E	>500	0	28.62
						10	28.64
						20	28.72
						30	28.42
						50	28.34
						75	28.52
						100	28.32
						150	25.26
						200	15.29
						300	14.74
400	12.71						
500	11.58						
522	16-12-1959	0540-0623	09° 28' N	75° 24' E	>500	0	28.41
						10	28.90
						20	28.90
						30	28.80
						50	28.74
						75	28.23
						100	27.39
						150	19.38
						200	15.48
						300	12.72
400	11.36						
500	10.66						
523	16-12-1959	0830-1006	09° 39' 30" N	75° 10' 30" E	>500	0	28.54
						10	28.76

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
32·16	..	..	..	..	..	..
32·40	..	..	..	..	..	..
34·13	..	..	..	..	..	..
34·44	..	..	..	..	..	..
34·93	..	..	..	..	..	..
33·04	..	..	..	..	135	..
33·69	..	..	..	..	..	..
34·06	4·20	..	..	..	..	..
34·70	5·55	..	..	..	..	..
35·19	4·45	..	..	..	..	..
35·50	4·50	..	..	..	..	..
35·50	..	..	..	..	..	..
35·36	1·95	..	..	..	..	..
34·25	4·35	..	..	..	135	..
34·58	5·30	..	..	..	..	..
35·09	5·50	..	..	..	..	..
35·18	4·70	..	..	..	..	..
35·25	4·65	..	..	..	..	..
35·81	4·65	..	..	..	..	..
35·31	4·60	..	..	..	..	..
35·42	2·75	..	..	..	..	..
35·03	0·55	..	..	..	..	..
35·14	0·45	..	..	..	..	..
35·20	0·45	..	..	..	..	..
35·08	0·55	..	..	..	..	..
34·36	..	..	..	..	135	..
35·05	..	..	..	..	..	..
35·20	..	..	..	..	..	..
35·24	..	..	..	..	..	..
35·61	..	..	..	..	..	..
36·00	..	..	..	..	..	..
36·17	..	..	..	..	..	..
35·03	..	..	..	..	..	..
35·08	..	..	..	..	..	..
35·16	..	..	..	..	..	..
35·10	..	..	..	..	..	..
35·12	..	..	..	..	..	..
34·85	..	..	..	..	135	..
35·25	..	..	..	..	..	..

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						20	28.68
						30	28.60
						50	28.28
						75	26.10
						100	25.60
						150	20.39
						200	15.39
						300	12.90
						400	11.74
						500	11.11
524	16-12-1959	1130-1320	09° 42' N	75° 20' 30" E	>500	0	28.28
						10	28.94
						20	28.29
						30	28.74
						50	28.58
						75	28.15
						100	27.20
						150	18.57
						200	15.29
						300	12.78
						400	11.57
						500	10.91
525	16-12-1959	1400-1546	09° 44' N	75° 30' 30" E	>500	0	28.54
						10	28.77
						20	28.75
						30	28.63
						50	28.56
						75	28.30
						100	26.91
						150	18.44
						200	14.98
						300	12.57
						400	11.17
						500	10.21
526	16-12-1959	1620-1700	09° 47' N	75° 40' 30" E	150	0	28.50
						10	28.46
						20	28.75
						30	28.69

Oceanographic Station List

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S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35-44
35-59
36-36
36-12
36-03
35-26
35-06
35-25
35-08
35-18
34-41	135	..
35-03
35-25
35-35
35-94
36-26
36-35
35-08
35-07
35-16
35-16
35-16
34-18	135	..
34-65
35-19
35-24
35-42
35-58
36-14
35-15
35-08
35-17
35-17
35-16
32-39	135	..
32-55
34-50
34-90

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						50	28.28
						75	28.23
						100	27.20
527	16-12-1959	1815-1856	09° 49' N	75° 50' E	60	0	28.31
						10	28.31
						20	28.53
						30	28.53
						50	28.65
528	16-12-1959	1920-1948	09° 52' N	75° 54' 30" E	49	0	28.31
						10	28.30
						20	28.43
						30	28.52
529	16-12-1959	2030-2103	09° 54' N	75° 59' 30" E	38	0	28.38
						10	28.36
						20	28.42
530	16-12-1959	..	09° 56' N	76° 04' 30" E	25	0	28.42
						10	28.56
531	21-12-1959	0757-0832	09° 57' N	76° 07' E	25	0	28.29
						10	28.28
						20	..
532	21-12-1959	1029-1825	09° 52' N	75° 53' E	56	0	28.33
						10	28.23
						20	28.16
						30	28.35
						50	28.50
						75	28.52
533	18- 1-1960	0816-0850	09° 57' N	76° 07' E	23	0	28.34
						10	28.37
						20	28.37
534	18- 1-1960	1052-1835	09° 52' N	75° 53' E	54	0	28.32
						10	28.45
						20	28.47
						30	28.44
						50	28.41

Oceanographic Station List

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S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35-19
35-32
35-57
32-32	58	..
33-04
33-46
33-04
35-08
32-34	..	..	..	..	..	..
32-81	..	..	..	..	..	..
32-93	..	..	..	..	..	..
33-87	..	..	..	..	..	..
32-48	..	..	..	..	..	..
32-54	..	..	..	..	..	..
32-78	..	..	..	..	..	..
32-57	..	..	..	..	..	..
32-83	..	..	..	..	..	..
32-30	4-55	..	..	..	23	..
32-29	4-55	..	..	..	..	..
32-34	4-50	..	..	..	..	..
32-31	4-65	..	..	..	54	C ₁₄
32-48	4-45	..	..	..	..	..
32-75	4-55	..	..	..	..	..
33-12	4-50	..	..	..	..	..
33-82	4-50	..	..	..	..	..
34-67	4-25	..	..	..	..	..
32-33	4-35	..	..	..	..	..
32-73	4-35	..	..	..	..	..
32-78	4-10	..	..	..	..	..
32-38	4-35	..	..	..	52	C ₁₄
32-33	4-40	..	..	..	..	..
32-42	4-35	..	..	..	..	..
32-55	4-20	..	..	..	..	..
33-54	4-10	..	..	..	..	..

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
535	10- 2-1960	2215-	09° 16' N	76° 20' E	18	0	28.87
						10	28.54
536	10- 2-1960	2305-02330	09° 14' N	76° 15' E	..	0	28.77
						10	28.75
						20	28.44
						30	28.46
537	11- 2-1960	0010-0030	09° 12' N	76° 11' E	55	0	28.68
						10	28.74
						20	28.42
						30	28.24
538	11- 2-1960	0115-0145	09° 11' N	76° 05' 30" E	58	0	28.77
						10	28.83
						20	28.53
						30	28.24
539	11- 2-1960	0220-0300	09° 09' N	76° 00' E	91	0	28.79
						10	28.26
						20	..
						30	28.44
						50	28.13
540	11- 2-1960	0410-0455	09° 05' 30" N	75° 51' E	338	0	28.36
						10	..
						20	28.78
						30	..
						50	28.42
541	11- 2-1960	0615-0700	09° 02' N	75° 42' E	366	0	28.43
						10	..
						20	28.64
						30	..
						50	28.79
						75	..
						100	28.32
						150	..
200	15.06						
542	11- 2-1960	0815-0915	08° 59' N	75° 32' E	>500	0	28.40
						10	..

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
33-28	5-50	..	..	..	..	..
33-55	4-40	..	..	..	..	..
33-20	..	..	..	..	30	..
33-33	..	..	..	..	..	..
33-57	..	..	..	..	..	..
33-54	..	..	..	..	..	..
33-05	4-60	..	..	..	..	..
33-12	4-55	..	..	..	..	..
33-53	4-60	..	..	..	..	..
33-73	4-50	..	..	..	..	..
33-11	..	..	..	..	56	..
33-08	..	..	..	..	..	..
33-57	..	..	..	..	..	..
33-56	..	..	..	..	..	..
33-05	4-45	..	..	..	..	..
33-64	4-40	..	..	..	..	..
..
33-63	4-35	..	..	..	..	..
33-64	4-45	..	..	..	..	..
33-11	4-35	..	..	..	..	..
33-46	4-40	..	..	..	..	..
..
33-66	4-50	..	..	..	..	..
..
33-91	4-55	..	..	..	..	..
33-55	..	..	..	..	..	..
..
33-78	..	..	..	..	..	..
..
34-51	..	..	..	..	..	..
..
35-62	..	..	..	..	..	..
..
35-12	..	..	..	..	..	..
35-03	..	..	..	..	..	..
33-73	4-50	..	..	..	135	..
..

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						20	28.66
						30	..
						50	28.72
						75	..
						100	28.10
						150	..
						200	15.66
						300	11.78
543	11- 2-1960	1100-1150	08° 44' N	75° 51' E	>500	0	28.36
544	11- 2-1960	1250-1305	08° 48' N	77° 55' E	356	0	28.69
545	11- 2-1960	1425-1440	08° 52' N	75° 59' E	330	0	28.98
546	11- 2-1960	1600-	08° 56' N	76° 08' E	91	0	28.99
547	11- 2-1960	1625-1645	08° 58' N	76° 13' E	62	0	29.48
548	11- 2-1960	1720-1730	09° 00' N	76° 17' E	55	0	28.80
549	11- 2-1960	1810-1818	09° 01' N	76° 21' 30" E	48	0	28.81
550	11- 2-1960	..	09° 04' N	76° 26' E	27	0	28.59
551	1- 3-1960	1110-1120	10° 13' N	76° 04' E	22	0	29.43
						10	28.62
552	9- 3-1960	1200-1225	10° 12' N	75° 59' E	29	0	29.37
						10	29.12
						20	28.84
553	9- 3-1960	1305-1320	10° 10' N	75° 54' E	42	0	29.81
						10	29.16
						20	28.82
						30	28.61
554	9- 3-1960	1355-1410	10° 09' N	75° 50' E	51	0	29.89
						10	29.08
						20	28.51
						30	28.40
555	9- 3-1960	1455-1505	10° 08' N	75° 45' E	70	0	30.00
						10	29.36
						20	29.11
						30	28.60
						50	28.36

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34·18	4·50	..	..	..	..	..
35·07	4·35	..	..	..	..	..
35·36	4·35	..	..	..	..	..
35·08	0·25	..	..	..	..	..
35·14	0·65	..	..	..	..	..
33·40	..	..	..	..	..	All messengers are lost in this station
33·45	..	..	..	..	..	..
33·44	..	..	..	..	135	..
33·30	..	..	..	..	..	..
33·32	..	..	..	..	60	..
33·35	..	..	..	..	53	..
33·30	..	..	..	..	..	..
33·31	..	..	..	..	..	..
34·33	3·40	..	..	..	..	..
34·33	3·50	..	..	..	..	..
34·19	3·90	..	..	..	27	..
34·22	4·00	..	..	..	..	..
34·42	4·00	..	..	..	..	..
34·04	4·20	..	..	..	..	..
34·06	4·30	..	..	..	..	..
34·47	4·40	..	..	..	..	..
34·56	4·40	..	..	..	..	..
33·96	4·20	..	..	..	49	..
33·94	4·50	..	..	..	..	..
34·45	4·20	..	..	..	..	..
34·58	4·30	..	..	..	..	..
33·89	4·00	..	..	..	..	..
33·97	4·20	..	..	..	..	..
33·87	4·10	..	..	..	..	..
34·44	4·10	..	..	..	..	..
34·87	4·10	..	..	..	..	..

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
556	9- 3-1960	1630-1840	10° 05' N	75° 35' E	>1000	0	29.53
						10	29.21
						20	29.20
						30	28.82
						50	28.25
						75	27.54
						100	26.86
						150	19.37
						200	14.97
						300	12.46
						400	11.25
						500	..
						600	9.71
						700	9.09
800	8.68						
	1000	7.50					
557	9- 3-1960	2000-2150	10° 02' N	75° 26' E	>1000	0	29.53
						10	29.25
						20	29.10
						30	28.86
						50	28.60
						75	28.05
						100	26.81
						150	17.96
						200	15.28
						300	12.79
						400	11.68
						500	11.08
						600	9.91
						700	9.52
800	9.14						
	1000	8.00					
558	9- 3-1960	2310-0010	09° 59' N	75° 16' E	>500	0	29.15
						10	29.08
						20	28.93
						30	28.93
						50	28.83
						75	27.86
						100	28.76
150	26.14						
	200	15.16					

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
33·87	4·25	..	..	..	135	..
33·82	4·20	..	..	..	..	..
33·91	4·40	..	..	..	..	..
34·28	4·30	..	..	..	..	..
34·50	4·40	..	..	..	..	..
35·69	3·70	..	..	..	..	..
35·81	3·25	..	..	..	..	..
35·28	0·40	..	..	..	..	..
35·12	0·35	..	..	..	..	..
35·26	0·35	..	..	..	..	..
35·13	0·35	..	..	..	..	..
..
35·26	0·50	..	..	..	..	..
35·13	0·30	..	..	..	..	..
35·25	0·40	..	..	..	..	..
35·06	0·70	..	..	..	..	..
33·88	4·20	..	..	..	..	..
33·47	..	..	..	..	..	..
33·02	..	..	..	..	..	..
34·16	..	..	..	..	..	..
34·85	4·20	..	..	..	..	..
35·42	4·00	..	..	..	..	..
35·81	3·20	..	..	..	..	..
35·21	0·55	..	..	..	..	..
35·19	0·15	..	..	..	..	..
35·12	0·15	..	..	..	..	..
35·08	0·30	..	..	..	..	..
35·07	0·30	..	..	..	..	..
34·97	0·55	..	..	..	..	..
35·04	0·40	..	..	..	..	..
35·12	0·20	..	..	..	..	..
34·97	0·65	..	..	..	..	..
33·87	..	..	..	..	135	..
34·02	..	..	..	..	..	..
33·86	..	..	..	..	..	..
34·02	..	..	..	..	..	..
34·92	..	..	..	..	..	..
35·49	..	..	..	..	..	..
..
35·64	..	..	..	..	..	..
35·14	..	..	..	..	..	..

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						300	12.58
						400	11.47
						500	10.87
559	10-3-1960	0230-0340	10° 13' N	75° 05' E	>500	0	29.30
						10	29.27
						20	29.23
						30	28.93
						50	28.90
						75	28.19
						100	27.24
						150	17.85
						200	15.78
						300	..
						400	13.52
						500	11.84
560	10-3-1960	0455-0555	10° 16' N	75° 14' 30" E	>500	0	29.20
						10	29.26
						20	29.18
						30	28.98
						50	28.87
						75	28.25
						100	27.25
						150	19.59
						200	15.39
						300	12.06
						400	11.37
						500	10.97
561	10-3-1960	0723-0820	10° 19' N	75° 24' E	>500	0	29.02
						10	29.04
						20	29.21
						30	28.69
						50	28.65
						75	27.86
						100	26.55
						150	19.26
						200	15.23
						300	..
						400	12.78
						500	11.79

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35-17
35-25
35-09
33-68
33-66
33-91
34-31
34-47
35-53
35-93
35-09
35-16
35-10
35-16
35-09
33-43	135	..
33-53
33-60
33-99
34-70
35-37
35-83
35-22
35-11
35-05
35-12
35-10
33-52	135	..
33-63
33-68
33-98
34-68
35-58
35-58
35-17
35-33
35-17
35-27
35-23

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
562	10- 3-1960	0945-1043	10° 22' 30" N	75° 33' E	>500	0	29.33
						10	29.22
						20	29.05
						30	29.00
						50	28.45
						75	28.14
						100	27.70
						150	18.40
						200	15.60
						300	12.97
						400	11.76
500	10.90						
563	10- 3-1960	1205-1245	10° 25' 30" N	75° 42' 30" E	108	0	29.57
						10	29.05
						20	29.10
						30	29.19
						50	28.32
						75	28.31
100	..						
564	10- 3-1960	1325-1335	10° 27' N	75° 47' E	66	0	28.42
						10	29.40
						20	29.14
						30	29.04
						50	..
565	10- 3-1960	1415-1435	10° 29' N	75° 52' E	55	0	29.89
						10	29.15
						20	29.16
						30	28.83
						50	28.22
566	10- 3-1960	1530-1544	10° 31' N	75° 57' 30" E	37	0	29.55
						10	29.15
						20	28.80
						30	28.40
567	10- 3-1960	1725-1735	10° 46' N	75° 49' E	15	0	29.58
						10	29.12

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
33·68	135	..
33·64
33·65
33·71
34·87
35·11
35·73
35·05
35·18
35·18
35·26
35·41
33·85	106	..
33·78
33·84
34·00
34·71
34·99
35·71
34·57
34·33
34·03
33·76
35·06
34·12	53	..
34·22
34·09
34·01
35·08
34·20
34·20
34·75
34·69
34·29
34·39

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
568	10- 3-1960	1810-1823	10° 44' 30" N	75° 44' E	30	0	29.37
						10	29.11
						20	28.57
569	10- 3-1960	1900-1910	10° 43' N	75° 39' E	36	0	29.22
						10	29.10
						20	29.06
570	10- 3-1960	1945-1955	10° 42' N	75° 34' E	48	0	29.21
						10	29.05
						20	29.13
571	10- 3-1960	2040-2050	10° 40' N	75° 28' E	62	0	29.10
						10	28.97
						20	29.02
572	10- 3-1960	2200-2227	10° 37' N	75° 20' E	103	0	29.16
						10	29.17
						20	29.03
573	10- 3-1960	2340-0032	10° 34' 30" N	75° 11' E	>500	0	29.35
						10	29.35
						20	29.23
574	11- 3-1960	0145-0240	10° 31' 30" N	75° 01' E	>500	30	29.03
						50	27.95
						75	28.17
						100	25.71
						150	18.46
						200	14.77
						300	..
						400	12.00
						500	11.00
						0	29.02
10	29.05						

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34·22	4·15	..	..	..	28	..
34·23	4·20	..	..	..	..	..
34·65	4·00	..	..	..	..	..
34·11	..	..	..	..	..	..
34·24	..	..	..	..	..	..
34·74	..	..	..	..	..	..
34·70	..	..	..	..	..	..
33·80	4·50	..	..	..	46	..
33·84	4·50	..	..	..	..	..
33·91	4·50	..	..	..	..	..
34·40	4·30	..	..	..	..	..
33·68	..	..	..	..	..	..
33·70	..	..	..	..	..	..
33·73	..	..	..	..	..	..
34·60	..	..	..	..	..	..
35·23	..	..	..	..	..	..
33·71	3·40	..	..	..	..	..
33·74	5·20	..	..	..	..	..
33·89	4·30	..	..	..	..	..
34·02	4·10	..	..	..	..	..
34·80	4·40	..	..	..	..	..
35·25	4·10	..	..	..	..	..
35·52	4·70	..	..	..	..	..
33·63	4·50	..	..	..	135	..
33·70	4·40	..	..	..	..	..
33·73	4·30	..	..	..	..	..
34·01	4·40	..	..	..	..	..
34·41	4·30	..	..	..	..	..
35·17	4·30	..	..	..	..	..
35·77	2·50	..	..	..	..	..
35·17	0·50	..	..	..	..	..
35·13	0·20	..	..	..	..	..
35·10	0·20	..	..	..	..	..
35·12	0·30	..	..	..	..	..
33·55	..	..	..	..	135	..
33·53	..	..	..	..	..	..

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						20	29.04
						30	28.83
						50	28.77
						75	28.36
						100	27.15
						150	17.76
						200	14.78
						300	12.98
						400	11.99
						500	11.03
575	11- 3-1960	..	10° 28' N	74° 51' 30" E	> 500	..	..
576	19- 4-1960	0515-0525	11° 15' N	75° 40' 30" E	18	0	32.70
						10	32.50
577	19- 4-1960	0645-0700	11° 12' N	75° 31' E	..	0	30.29
						10	30.27
						20	30.22
						30	29.49
578	19- 4-1960	0815-0825	11° 08' N	75° 22' E	53	0	30.30
						10	30.26
						20	30.31
						30	30.10
579	19- 4-1960	0945-1000	11° 05' N	75° 12' 30" E	73	0	30.29
						10	30.26
						20	30.31
						30	30.30
						50	29.64
						75	27.49
580	19- 4-1960	1115-1155	11° 01' 30" N	75° 03' E	457	0	30.56
						10	30.31
						20	30.22
						30	29.06
						50	30.10
						75	28.43
						100	22.05
						150	17.73

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
33-53	..	..	..	..	..	..
33-60	..	..	..	..	..	..
33-78	..	..	..	..	..	..
34-09	..	..	..	..	..	..
35-02	..	..	..	..	..	..
36-09	..	..	..	..	..	..
35-19	..	..	..	..	..	..
35-23	..	..	..	..	..	..
35-17	..	..	..	..	..	..
35-17	..	..	..	..	..	..
35-21	..	..	..	..	..	..
..	..	..	..	..	135	B.T. Station
34-41	..	..	..	..	..	..
34-34	..	..	..	..	..	..
34-22	4.60	..	..	..	34	..
34-29	4.60	..	..	..	..	..
34-50	4.55	..	..	..	..	..
34-48	4.15	..	..	..	..	..
34-28	4.45	..	..	..	..	..
34-38	4.45	..	..	..	..	..
34-33	4.50	..	..	..	..	..
34-47	4.50	..	..	..	..	..
34-15	4.50	..	..	..	71	..
34-13	4.50	..	..	..	..	..
34-15	4.50	..	..	..	..	..
34-11	4.55	..	..	..	..	..
34-64	4.55	..	..	..	..	..
35-16	3.05	..	..	..	..	..
34-21	4.50	..	..	..	135	..
34-20	4.55	..	..	..	..	..
34-29	4.60	..	..	..	..	..
34-62	4.60	..	..	..	..	..
34-27	4.45	..	..	..	..	..
35-70	4.30	..	..	..	..	..
35-44	2.40	..	..	..	..	..
35-35	0.40	..	..	..	..	..

Vessel: R. V. KALAYA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						200	14.80
						300	12.27
						400	11.57
581	19- 4-1960	1315-1355	10° 58' N	74° 54' E	>500	0	30.86
						10	30.16
						20	30.23
						30	29.60
						50	28.62
						75	28.20
						100	26.33
						150	17.94
						200	15.27
						300	12.60
						400	11.29
						500	11.21
582	19- 4-1960	1510-1645	10° 55' N	74° 44' E	>1500	0	31.26
						10	30.35
						20	30.27
						30	30.01
						50	29.13
						75	28.40
						100	27.50
						150	19.10
						200	15.42
						300	12.81
						400	11.90
						500	11.39
						1000	7.23
						1500	5.43
583	19- 4-1960	1805-1850	10° 51' N	74° 35' E	>500	0	30.69
						10	..
						20	30.12
						30	30.01
						50	29.43
						75	28.81
						100	27.52
						150	17.46
						200	14.58
						300	12.58
						400	11.39
						500	11.20

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35-23	0.30	..	..	..	..	..
35-26	0.35	..	..	..	..	..
35-25	0.35	..	..	..	..	..
33-96	4.65	..	..	..	135	..
34-05	4.55	..	..	..	..	..
34-26	4.55	..	..	..	..	..
34-48	4.75	..	..	..	..	..
34-69	4.50	..	..	..	..	..
35-80	3.80	..	..	..	..	..
35-91	2.70	..	..	..	..	..
35-37	0.35	..	..	..	..	..
35-36	0.20	..	..	..	..	..
35-32	0.40	..	..	..	..	..
35-26	0.55	..	..	..	..	..
35-25	0.60	..	..	..	..	..
33-95	4.50	..	..	..	135	..
34-05	4.65	..	..	..	..	..
34-04	4.65	..	..	..	..	..
34-02	4.55	..	..	..	..	..
34-90	4.55	..	..	..	..	..
35-41	4.30	..	..	..	..	..
35-82	2.80	..	..	..	..	..
35-25	0.40	..	..	..	..	..
35-17	0.15	..	..	..	..	..
35-32	0.30	..	..	..	..	..
35-36	0.35	..	..	..	..	..
35-43	0.35	..	..	..	..	..
35-43	0.70	..	..	..	..	..
35-17	0.70	..	..	..	..	..
33-95	..	..	..	..	135	..
33-91	..	..	..	..	..	..
33-93	..	..	..	..	..	..
34-02	..	..	..	..	..	..
34-61	..	..	..	..	..	..
35-23	..	..	..	..	..	..
35-77	..	..	..	..	..	..
35-21	..	..	..	..	..	..
35-28	..	..	..	..	..	..
35-46	..	..	..	..	..	..
35-22	..	..	..	..	..	..
35-23	..	..	..	..	..	..

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
584	19- 4-1960	2150-2230	11° 11' N	74° 27' E	>500		30.72
							30.38
							30.33
							30.02
							29.44
							28.42
							27.38
							18.91
							15.32
							12.07
							11.79
	11.40						
585	19- 4-1960	2355-0035	11° 15' N	74° 37' E	>500		30.62
							30.22
							30.12
							29.24
							28.50
							27.25
							18.40
							15.27
							13.55
							13.10
							11.85
586	20- 4-1960	0055-0250	11° 18' 30" N	74° 47' 30" E	>500		30.62
							..
							30.63
							30.12
							29.25
							28.42
							26.71
							19.00
							14.74
							12.50
							10.78
	11.22						
587	20- 4-1960	0440-0455	11° 23' N	74° 59' 30" E	69		30.65
							30.48
							29.83

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34·51	135	..
34·05
34·18
34·07
34·39
35·30
35·97
35·43
35·19
35·03
35·26
35·26
34·13	135	..
34·13
34·14
35·23
34·70
35·44
36·09
35·32
35·21
35·30
35·32
35·25
34·32
..
34·26
34·41
34·94
35·33
36·00
35·48
35·16
35·16
35·15
35·19
34·16
34·11
34·19

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.54	..	..	..	..	..	..
34.85	..	..	..	..	..	..
34.36	..	..	..	..	..	..
34.27	..	..	..	..	..	..
34.33	..	..	..	..	..	..
34.36	..	..	..	..	..	..
34.72	..	..	..	..	..	..
34.05	..	..	..	..	..	..
34.31	..	..	..	..	..	..
34.36	..	..	..	..	..	..
34.37	..	..	..	..	..	..
34.40	3.95	..	..	..	..	..
34.41	4.00	..	..	..	..	..
34.43	3.70	..	..	..	..	..
34.58	4.80	..	..	..	..	..
34.58	4.40	..	..	..	..	..
34.37	4.60	..	..	..	44	..
34.38	4.60	..	..	..	..	..
34.32	4.55	..	..	..	..	..
34.44	4.55	..	..	..	..	..
34.50	4.55	..	..	..	53	..
34.42	4.55	..	..	..	..	..
34.60	4.10	..	..	..	..	..
34.88	3.70	..	..	..	..	..
34.82	3.25	..	..	..	..	..
34.22	4.55	..	..	..	66	..
34.27	4.55	..	..	..	..	..
34.27	4.55	..	..	..	..	..
34.51	4.55	..	..	..	..	..
34.65	4.25	..	..	..	..	..
34.13	4.50	..	..	..	..	..
..
..
..

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						50	29.90
						75	27.78
						100	23.35
						150	17.08
596	20-4-1960	1930-2010	11° 32' N	74° 30' E	>500	0	30.38
						10	30.35
						20	30.11
						30	29.69
						50	29.13
						75	27.59
						100	24.87
						150	19.40
						200	15.18
						300	12.61
						400	11.61
						500	11.09
597	20-4-1960	2130-2215	11° 29' N	74° 21' E	>500	0	30.38
						10	30.46
						20	30.22
						30	29.95
						50	28.98
						75	28.21
						100	25.68
						150	17.67
						200	15.18
						300	12.81
						400	11.28
						500	10.99
598	20-4-1960	2335-2425	11° 26' N	74° 11' E	>500	0	30.33
						10	30.35
						20	30.11
						30	29.61
						50	28.75
						75	28.53
						100	25.57
						150	19.12
						200	15.37
						300	12.82
						400	11.80
						500	11.20

Oceanographic Station List

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S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
35-01	4.55
35-75	3.50
35-55	1.50
35-19	0.35
34-14	4.55	135	..
34-13	4.55	..	..	..	..	..
34-39	4.75	..	..	..	..	..
34-47	4.55	..	..	..	..	..
34-17	4.55	..	..	..	..	..
36-09	3.55	..	..	..	..	..
35-81	2.05	..	..	..	..	..
35-31	0.40	..	..	..	..	..
35-18	0.30	..	..	..	..	..
35-35	0.20	..	..	..	..	..
..	0.30	..	..	..	..	..
35-19	0.35	..	..	..	..	..
34-07	..	..	..	..	135	..
34-10	..	..	..	..	..	..
34-05	..	..	..	..	..	..
34-33	..	..	..	..	..	..
34-96	..	..	..	..	..	..
35-62	..	..	..	..	..	..
35-88	..	..	..	..	..	..
35-28	..	..	..	..	..	..
35-29	..	..	..	..	..	..
35-32	..	..	..	..	..	..
35-12	..	..	..	..	..	..
35-32	..	..	..	..	..	..
34-06	..	..	..	..	135	..
34-07	..	..	..	..	..	..
34-13	..	..	..	..	..	..
34-74	..	..	..	..	..	..
35-12	..	..	..	..	..	..
35-90	..	..	..	..	..	..
35-88	..	..	..	..	..	..
35-32	..	..	..	..	..	..
35-30	..	..	..	..	..	..
35-12	..	..	..	..	..	..
35-26	..	..	..	..	..	..
35-32	..	..	..	..	..	..

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
599	23- 1-1961	1800-1808	10° 44' N	75° 49' E	22	0	27.76
						10	26.82
						20	27.44
600	23- 1-1961	1930-1950	10° 39' N	75° 40' E	53	0	..
						10	27.55
						20	24.42
						30	27.41
601	23- 1-1961	2105-2125	10° 34' 30" N	75° 31' E	66	0	27.58
						10	27.63
						20	27.64
						30	27.63
602	23- 1-1961	2245-2330	10° 25' N	75° 22' E	>500	0	..
						10	..
						20	..
						30	..
						50	..
						75	..
						100	..
						150	..
						200	21.80
						300	14.00
603	24- 1-1961	0545-0700	11° 12' 30" N	75° 41' E	18	0	28.18
						10	28.26
604	24- 1-1961	..	11° 08' N	75° 32' E	35	0	28.05
						10	28.15
						20	28.04
						30	28.11
605	24- 1-1961	1008-1035	11° 04' N	75° 24' E	49	..	..
606	24- 1-1961	1150-1236	11° 00' N	75° 15' E	82	0	27.94
						10	28.03
						20	28.03
						30	28.04

S %	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
33-59	4-25	..	..	..	20	..
33-58	4-25	..	..	..	..	..
33-53	4-10	..	..	..	..	..
33-73	4-35	..	..	..	50	(Shallow + deep)
33-55	4-35	..	..	..	..	..
33-53	4-40	..	..	..	..	..
33-59	4-00	..	..	..	..	..
33-53	3-70	..	..	..	..	..
33-58	4-35	..	..	..	..	..
34-13	4-05	..	..	..	..	..
33-78	3-90	..	..	..	..	..
33-69	4-20	..	..	..	..	..
34-00	3-65	..	..	..	..	..
..
..
..
..
..
..
34-96	..	..	..	..	..	..
35-16	..	..	..	..	..	..
35-08	..	..	..	..	..	..
35-10	..	..	..	..	..	..
35-12	..	..	..	..	..	..
34-02	4-05	..	..	..	..	..
33-95	4-05	..	..	..	..	..
33-89	..	..	..	..	..	..
33-93	..	..	..	..	..	..
34-04	..	..	..	..	..	..
33-93	..	..	..	..	..	..
..	..	..	..	..	47	B.T. Station
33-71	4-20	..	..	..	..	..
33-73	4-00	..	..	..	..	..
33-73	4-10	..	..	..	..	..
33-73	3-75	..	..	..	..	..

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
607	24- 1-1961	1730-1800	11° 32' N	74° 53' E	73	50	28.05
						75	27.48
						0	28.25
						10	28.04
						20	27.94
608	24- 1-1961	1905-1945	11° 37' 30" N	75° 02' E	58	30	27.92
						50	27.83
						0	28.15
						10	28.26
						20	28.06
609	24- 1-1961	2038-2115	11° 44' N	75° 10' E	46	30	28.04
						50	27.74
						0	27.88
						10	27.85
						20	27.84
610	24- 1-1961	2230-2245	11° 49' N	75° 18' E	29	0	27.65
						10	27.55
611	27- 1-1961	1015-1020	09° 58' N	76° 09' E	25	0	27.93
						10	28.05
612	27- 1-1961	1130-1140	09° 52' N	76° 00' E	36	0	27.83
						10	27.96
						20	27.85
						30	27.84
613	27- 1-1961	1254-1305	09° 47' N	75° 51' 30" E	58	0	28.04
						10	27.65
						20	27.75
						30	27.84
						50	27.84
614	27- 1-1961	1525-1547	09° 42' N	75° 43' E	110	0	28.18
						10	27.96
						20	27.86
						30	28.03
						50	27.75
						75	27.50
						100	26.60

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
33-78	3-90	..	..	..	..	..
33-96	3-50	..	..	..	..	..
33-77	..	..	..	..	..	..
33-73	..	..	..	..	..	..
33-71	..	..	..	..	..	..
33-64	..	..	..	..	..	..
33-75	..	..	..	..	..	..
34-20	..	..	..	..	..	..
33-91	..	..	..	..	..	..
33-93	..	..	..	..	..	..
33-96	..	..	..	..	..	..
33-95	..	..	..	..	..	..
33-78	..	..	..	..	..	..
33-75	..	..	..	..	..	..
33-80	..	..	..	..	..	..
33-74	..	..	..	..	..	..
33-81	..	..	..	..	..	..
32-90	4-35	..	..	..	..	..
33-22	2-55	..	..	..	..	..
33-78	4-25	..	..	..	..	..
33-74	4-00	..	..	..	..	..
33-46	4-00	..	..	..	..	..
33-60	4-25	..	..	..	..	..
33-37	4-20	..	..	..	..	..
33-45	4-25	..	..	..	..	..
33-49	4-25	..	..	..	..	..
33-49	4-25	..	..	..	..	..
33-66	4-10	..	..	..	..	..
33-48	4-35	..	..	..	..	..
33-58	3-55	..	..	..	..	..
34-48	4-35	..	..	..	..	..
33-68	4-25	..	..	..	..	..
34-22	4-20	..	..	..	..	..
34-99	3-65	..	..	..	..	..
35-34	3-15	..	..	..	..	..

Vessel: R. V. KALAYA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
615	27- 1-1961	1703-1755	09° 37' N	75° 30' 30" E	>500	0	28.44
						10	28.32
						20	28.22
						30	28.01
						50	27.73
						75	27.48
						100	26.61
						150	17.27
						200	15.09
						300	12.35
						400	11.28
616	27- 1-1961	1857-2000	09° 32' N	75° 25' E	>500	0	28.35
						10	28.33
						20	28.23
						30	28.22
						50	27.83
						75	26.94
						100	25.62
						150	17.08
						200	14.43
						300	11.84
						400	10.83
617	27- 1-1961	2105-2150	09° 27' N	75° 15' 30" E	>500	0	28.26
						10	28.24
						20	28.23
						30	28.01
						50	27.02
						75	27.70
						100	25.49
						150	17.28
						200	14.43
						300	12.65
						400	10.83
618	20- 2-1961	1935-1955	08° 52' N	76° 30' E	29	0	27.78
						10	27.75
						20	27.34

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
33-30	4-50	..	..	..	..	..
33-64	4-50	..	..	..	..	..
34-05	3-90	..	..	..	..	..
34-33	4-10	..	..	..	..	..
35-07	4-35	..	..	..	..	..
35-11	4-25	..	..	..	..	..
35-46	3-40	..	..	..	..	..
34-78	0-40	..	..	..	..	..
34-81	0-30	..	..	..	..	..
34-87	0-30	..	..	..	..	..
34-87	0-40	..	..	..	..	..
..
33-79	4-60	..	..	..	..	..
33-93	4-30	..	..	..	..	..
34-05	4-30	..	..	..	..	..
34-14	4-60	..	..	..	..	..
35-14	3-90	..	..	..	..	..
35-01	3-45	..	..	..	..	..
35-26	2-65	..	..	..	..	..
34-24	0-30	..	..	..	..	..
34-83	0-20	..	..	..	..	..
34-76	0-40	..	..	..	..	..
34-78	0-60	..	..	..	..	..
34-79	0-85	..	..	..	..	..
33-93	4-25	..	..	..	..	..
34-14	3-45	..	..	..	..	..
33-53	4-05	..	..	..	..	..
34-56	3-25	..	..	..	..	..
35-12	3-45	..	..	..	..	..
35-77	3-80	..	..	..	..	..
35-34	2-50	..	..	..	..	..
34-96	0-80	..	..	..	..	..
34-99	0-25	..	..	..	..	..
34-97	0-40	..	..	..	..	..
34-99	0-50	..	..	..	..	..
35-01	1-10	..	..	..	..	..
33-89	..	..	..	..	..	..
33-51	..	..	..	..	..	..
..

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
619	20- 2-1961	2120-2140	08° 46' N	76° 21' E	55	0	27.98
						10	28.06
						20	27.94
						30	27.93
						50	27.65
620	20- 2-1961	2255-2320	08° 41' N	76° 13' E	82	0	27.86
						10	27.94
						20	27.73
						30	27.82
						50	27.84
621	21- 2-1961	0040-0120	08° 36' N	76° 04' E	>500	0	27.81
						10	27.85
						20	27.64
						30	27.83
						50	28.05
						75	28.02
						100	25.81
						150	19.11
						200	14.22
						300	11.84
						400	10.73
500	11.02						
622	21- 2-1961	0325-0440	08° 32' N	75° 55' E	>500	0	27.98
						10	28.06
						20	28.05
						30	28.05
						50	28.05
						75	27.26
						100	26.21
						150	19.31
						200	14.62
						300	12.44
						400	10.93
500	10.31						
623	21- 2-1961	0500-0600	08° 27' N	75° 47' E	>500	..	..
624	21- 2-1961	1125-1237	07° 56' N	76° 12' E	>500	0	27.96
						10	28.14
						20	28.13

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
33.69
33.69
33.74
33.69
34.54
33.51
33.42
33.44
33.71
34.36
35.39
33.57
33.62
33.71
33.98
35.73
36.00
35.64
35.80
35.07
35.03
35.08
35.03
34.05
34.09
34.16
34.74
34.18
35.53
35.91
35.13
34.96
35.08
35.02
35.07
..	135	B.T. Station
33.89
34.31
34.18

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						30	28.22
						50	28.34
						75	28.16
						100	25.39
						150	18.70
						200	15.04
						300	12.55
						400	11.34
						500	10.63
625	21- 2-1961	1355-1420	08° 02' N	76° 19' E	>500	0	28.40
626	21- 2-1961	1535-1602	08° 08' N	76° 27' E	>500	0	27.94
627	21- 2-1961	1720-1828	08° 14' 30" N	76° 34' 30" E	315	0	28.15
						10	27.93
						20	27.82
						30	27.65
						50	27.83
						75	27.22
						100	27.00
						150	23.39
						200	20.08
						300	13.57
628	21- 2-1961	1953-2012	08° 21' N	76° 42' E	92	0	27.85
						10	27.63
						20	27.63
						30	27.82
						50	27.64
						75	26.16
629	21- 2-1961	2130-2145	08° 27' N	76° 50' E	42	0	27.80
						10	27.83
						20	27.72
						30	27.81
630	23- 2-1961	0950-0955	09° 58' N	76° 09' E	15	0	28.12
						10	28.24
631	23- 2-1961	1100-1155	09° 52' N	76° 00' E	35	0	28.18
						10	28.19
						20	28.06
						30	28.04

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34·61
35·61
35·95
35·73
35·30
35·10
35·14
34·99
35·13
34·42	275	B.T. Station
33·95	275	B.T. Station
33·80
33·65
33·75
33·82
33·95
34·69
34·94
35·41
35·16
34·99
33·50
33·53
33·53
33·86
34·63
34·90
33·60
33·57
33·71
33·95
33·55
34·18
33·96
34·15
34·33
34·59

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
632	23- 2-1961	1310-1345	09° 47' N	75° 51' 30" E	59	0	28.67
						10	28.14
						20	28.15
						30	28.14
						50	27.94
633	23- 2-1961	1440-1510	09° 42' N	75° 43' E	90	0	28.56
						10	28.04
						20	27.81
						30	28.02
						50	28.06
634	23- 2-1961	1620-1725	09° 37' N	75° 33' 30 " E	421	0	28.55
						10	28.03
						20	28.03
						30	28.01
						50	28.04
						75	27.80
						100	28.20
						150	18.63
						200	14.80
						300	12.22
635	23- 2-1961	1845-2215	09° 32' N	75° 25' E	>500	0	28.17
						10	28.25
						20	28.04
						30	28.02
						50	28.34
						75	27.48
						100	26.89
						150	19.20
						200	15.04
						300	12.67
636	23- 2-1961	2330-2345	09° 27' N	75° 15 30" E	>500	..	..
					
637	24- 2-1961	..	09° 20' N	75° 23 E	>500	0	27.86
						10	..

S %	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.16
34.22
34.12
34.95
34.88
33.67	88
33.80
33.77
33.84
34.13
35.14
33.78
33.77
33.79
34.42
35.17
35.35
36.20
35.15
34.71
35.21
35.19
33.69
33.77
33.75
33.84
34.33
35.16
35.87
35.14
35.19
35.73
35.18
35.70
..
33.53
..

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						20	..
						30	..
						50	28.34
						75	..
						100	26.60
638	24- 2-1961	0330-0415	09° 24' N	75° 33' 36E		30	28.08
						10	..
						20	27.45
						30	..
						50	27.85
						75	..
						100	26.42
						150	..
						200	14.78
639	24- 2-1961	0525-0555	09° 28' N	75° 43 30" E	..	0	28.13
						20	28.04
						50	28.04
						100	26.39
						200	16.20
640	24- 2-1961	0710-0730	09° 31' N	75° 52' E	92	0	28.21
						10	27.94
						20	28.23
						30	28.22
						50	27.73
						75	27.28
641	24- 2-1961	0840-0855	09° 35' N	76° 01' E	56	0	28.34
						10	28.43
						20	28.27
						30	28.00
						50	27.82
642	24- 2-1961	1005-1025	09° 37' N	76° 10' E	33	0	28.14
						10	28.03
						20	28.02
						30	28.00
643	20- 3-1961	1115-1140	11° 12' 30" N	75° 41' E	11	0	29.72
						10	29.93

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
..
..
34·60
..
35·77
..
33·77
..
34·31
..
34·78
..
35·01
..
33·82
..
33·82
34·38
35·68
34·97
..
33·89
33·86
33·93
33·93
34·56
34·83
..
33·87
33·86
34·00
33·91
34·40
..
33·62
33·64
33·78
34·05
..
35·14
..
34·70

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
644	21- 3-1961	0050-0115	11° 08' N	75° 32' E	26	0	29.36
						10	29.46
						20	28.64
645	21- 3-1961	0230-0300	11° 04' N	75° 24' E	48	0	29.12
						10	29.16
						20	28.43
						30	28.12
						50	27.93
646	21- 3-1961	0420-0530	11° 00' N	75° 15' E	75	0	28.99
						10	29.42
						20	29.20
						30	28.41
						50	27.92
						75	27.54
647	21- 3-1961	..	10° 55' N	75° 06' E	293	0	29.15
						10	..
						20	..
						30	..
						50	28.43
						75	28.11
						100	26.88
						150	20.68
						200	14.87
300	12.40						
648	21- 3-1961	0905-1025	10° 51' N	74° 57' 30" E	1280	0	29.35
						50	28.19
						100	25.35
						200	14.96
						300	12.59
						400	11.29
500	..						
649	21- 3-1961	1125-1230	10° 46' N	74° 48' E	1000	0	30.23
						50	28.59
						100	25.96
						200	15.08
						300	12.29
						400	10.78
500	10.68						

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34-43
34-44
34-52
34-52
34-50
34-74
34-61
..
34-43
34-40
34-38
34-56
34-83
34-47
34-34
..
..
..
34-58
35-73
35-61
35-21
35-08
35-12	Bottle touched bottom
34-20
34-49
35-44
35-22
35-16
35-13
35-14
34-16
35-12
35-62
35-75
35-16
35-19
35-17

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
650	21- 3-1961	1440-1515	11° 00' N	74° 38' E	>500	0 500	30·10 10·88
651	21- 3-1961	1620-1745	11° 05' N	74° 47' E	>500	0 500	29·97 10·99
652	21- 3-1961	1900-2000	11° 11' N	74° 55' 30" E	>500	0 100 300 500	29·74 26·68 12·15 11·00
653	21- 3-1961	2115-2140	11° 16' N	75° 04' E	81	0 50	29·66 27·82
654	21- 3-1961	2250-2315	11° 22' N	75° 13' E	55	0 50	29·86 27·38
655	22- 3-1961	0035-0050	11° 27' 30" N	75° 22' E	46	0	29·56
656	22- 3-1961	0210-0225	11° 32' N	75° 30' 30" E	26	0 20	29·44 29·21
657	23- 3-1961	1050-1100	10° 44' N	75° 49' E	15	0 10	30·27 29·95
658	23- 3-1961	1307-1322	10° 39' N	75° 40' E	33	0 10 20 30	29·56 29·44 29·04 28·40
659	23- 3-1961	1438-1451	10° 34' 30" N	75° 31' E	55	0 10 20 50	29·57 29·85 28·43 28·02
660	23- 3-1961	1624-1645	10° 29' N	75° 22' E	121	0 10 20 30 50 75 100	29·57 29·65 29·43 28·70 28·42 27·48 ..
661	23- 3-1961	1845-	10° 24' N	75° 13' E	>500	..	..

	S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34.20
35.16
34.05
35.23
34.27
35.62
35.30
35.02
35.91
34.79
34.36
34.78
34.60
34.47
34.58
34.60
34.45
34.22
34.29
34.36
34.45
34.22
34.27
34.45
34.56
34.11
34.16
34.25
34.14
34.42
34.96
35.52
..

Station cancelled due
to rough weather

Vessel : R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
662	25- 4-1961	1140-1148	09° 56' N	76° 08' E	18	0	29.05
						10	28.83
663	25- 4-1961	1300-1310	09° 52' N	75° 58' 30" E	36	0	29.96
						10	29.64
						20	28.61
664	25- 4-1961	1425-1450	09° 46' N	75° 49' E	58	0	30.16
						10	30.05
						20	29.63
						30	28.39
						50	27.21
665	25- 4-1961	1600-	09° 42' N	75° 40' E	118	0	30.06
						10	30.05
						20	29.60
						30	28.19
						50	28.01
						75	22.81
666	25- 4-1961	1745-1900	09° 37' N	75° 31' 30" E	>500	0	30.16
						10	30.25
						20	30.02
						30	28.99
						50	27.82
						75	28.02
						100	25.47
						150	19.90
						200	16.23
						300	12.44
						400	11.01
500	10.49						
667	25- 4-1961	2100-	09° 30' N	75° 51' E	..	0	29.75
						10	30.05
						20	29.01
						30	26.99
						50	28.08
668	25- 4-1961	2305-2325	09° 33' N	75° 59' E	..	0	29.76
						10	29.86
						20	28.32

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
34·91	4·50	..	..	..	..	..
35·01	4·22	..	..	..	..	..
34·94	4·55	..	..	..	..	..
35·01	4·40	..	..	..	..	..
35·02	4·60	..	..	..	..	..
34·88	4·60	..	..	..	..	..
34·85	4·80	..	..	..	..	..
34·84	4·75	..	..	..	..	..
34·94	4·25	..	..	..	..	..
35·57	3·40	..	..	..	..	..
34·74	4·70	..	..	..	..	..
34·63	4·50	..	..	..	..	..
34·61	4·50	..	..	..	..	..
34·94	4·05	..	..	..	..	..
35·68	3·80	..	..	..	..	..
35·37	1·50	..	..	..	..	..
35·16	1·20	..	..	..	..	..
34·63	4·55	..	..	..	..	..
34·66	4·40	..	..	..	..	..
34·59	4·50	..	..	..	..	..
34·56	4·85	..	..	..	..	..
35·44	0·40	..	..	..	..	..
35·23	4·55	..	..	..	..	..
35·70	2·95	..	..	..	..	..
35·17	0·85	..	..	..	..	..
35·07	1·05	..	..	..	..	..
35·16	1·20	..	..	..	..	..
35·12	0·70	..	..	..	..	..
35·07	1·25	..	..	..	..	..
34·91	..	..	..	..	..	..
34·78	..	..	..	..	..	..
34·85	..	..	..	..	..	..
34·90	..	..	..	..	..	..
35·82	..	..	..	..	..	..
..	4·50	..	..	..	..	..
35·94	4·60	..	..	..	..	..
35·83	3·45	..	..	..	..	..

Vessel: R. V. KALAVA

Station No.	Date	Time	Position		Depth m. (1)	Depth m. (2)	Temp. °C.
			Lat.	Long.			
						30	27.70
						50	27.82
669	26-4-1961	0035-0045	09° 36' 30" N	76° 09' E	..	0	29.59
						10	29.46
670	26-4-1961	0222-0230	09° 23' N	76° 16' E	18	0	29.45
						10	27.96
671	26-4-1961	0350-0410	09° 20' N	76° 06' E	50	0	29.66
						10	29.73
						20	28.02
						30	28.00
						50	25.50
672	26-4-1961	0530-0600	09° 14' N	75° 57' E	..	0	29.76
						10	29.82
						20	29.50
						30	28.83
						50	27.02
						75	25.25
673	26-4-1961	0740-0825	09° 10' N	75° 47' E	360	0	29.86
						10	29.95
						20	29.32
						30	29.04
						50	28.23
						75	28.21
						100	25.35
						150	18.71
						200	15.55
						300	13.54

S ‰	O ₂ ml./l.	Wind	Sea	Plankton	B.T.	Remarks
..	3.70	..	..	..	..	..
..	4.55	..	..	..	..	..
34.97	4.45	..	..	..	..	..
34.88	4.10	..	..	..	..	..
34.82	..	..	..	..	..	..
35.30	..	..	..	..	..	..
34.76	..	..	..	..	..	..
34.79	..	..	..	..	..	..
34.90	..	..	..	..	..	..
35.23	..	..	..	..	..	..
34.81	..	..	..	..	..	..
34.87	4.70	..	..	..	..	..
34.79	4.55	..	..	..	..	..
34.79	4.30	..	..	..	..	..
34.76	2.30	..	..	..	..	..
35.34	3.45	..	..	..	..	..
35.81	2.90	..	..	..	..	..
34.78	..	..	..	..	..	..
34.74	..	..	..	..	..	..
34.58	..	..	..	..	..	..
34.63	..	..	..	..	..	..
35.48	..	..	..	..	..	..
35.46	..	..	..	..	..	..
35.52	..	..	..	..	..	..
34.97	..	..	..	..	..	..
34.94	..	..	..	..	..	..
35.17	..	..	..	..	..	..