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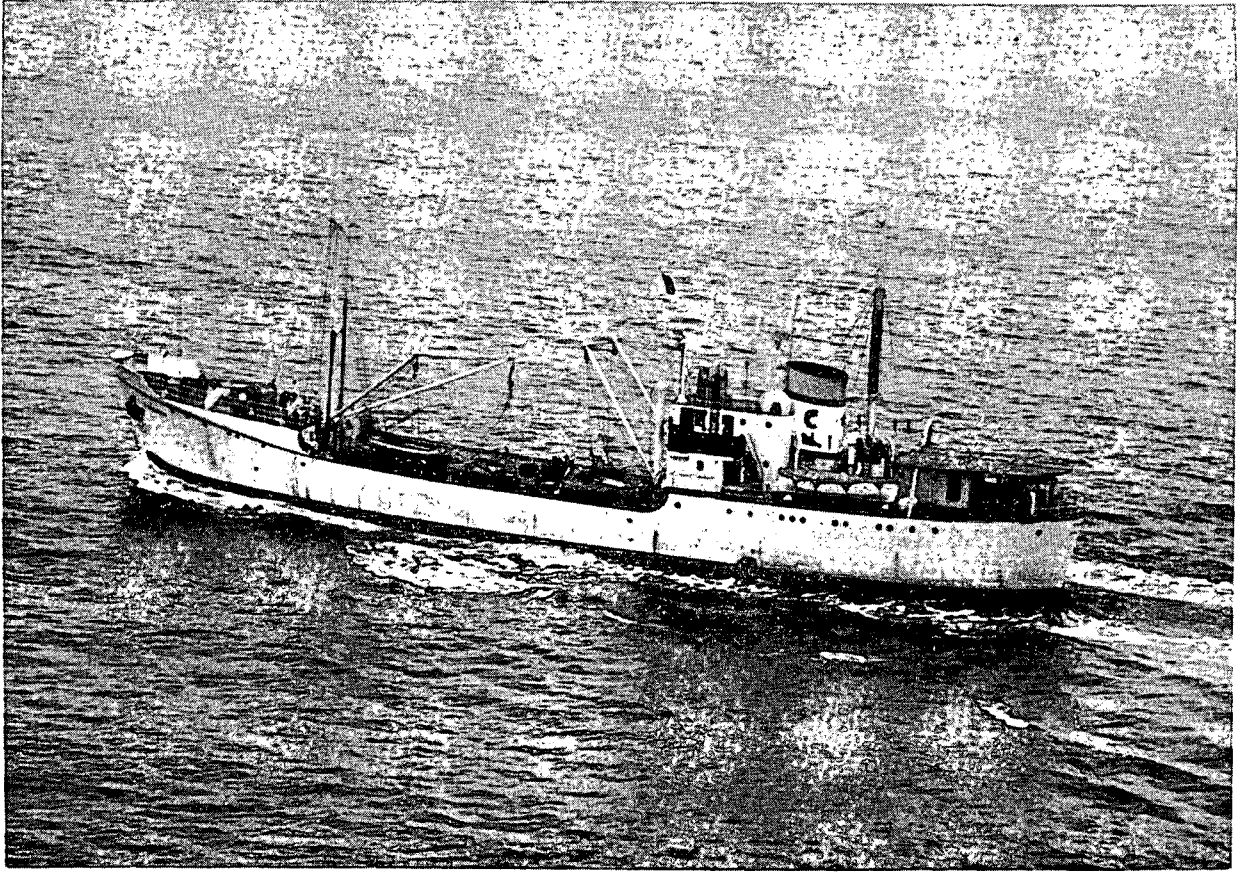
DEPARTMENT OF NATIONAL HEALTH & WELFARE

at

CANADA CENTRE FOR INLAND WATERS

BURLINGTON, ONTARIO

CANADA



M.V. "Theron"



LIMNOLOGICAL DATA REPORT NO.1

LAKE HURON

CRUISE 68 - 201, AUGUST 5 - 13

LAKE SUPERIOR

CRUISE 68 - 301, AUGUST 18 - 28

1968

**CANADA CENTRE FOR INLAND WATERS
BURLINGTON, ONTARIO**

FOREWORD

The year 1968 saw the firm establishment of the Canada Centre for Inland Waters as a major research Centre concerned with Canada's vital fresh water resources.

Three Federal Government agencies are involved in developing the Centre - the Department of Energy, Mines and Resources, the Fisheries Research Board and the Department of National Health and Welfare. The Department of Energy, Mines and Resources co-ordinates the program and provides support facilities to the participating agencies and to university scientists undertaking projects in collaboration with the Centre's agencies.

Between April and December, 1968, an extensive field program was conducted on the Great Lakes. Supported by two major ships, the CSS Limnos and the charter vessel M.V. Theron, the three participating departments conducted a number of interdisciplinary surveys. These surveys, along with data collected from fixed moorings of instruments in the lakes and other studies, are designed to develop a body of information which will provide vital data needed for determining optimum pollution abatement and water management programs for the Great Lakes.

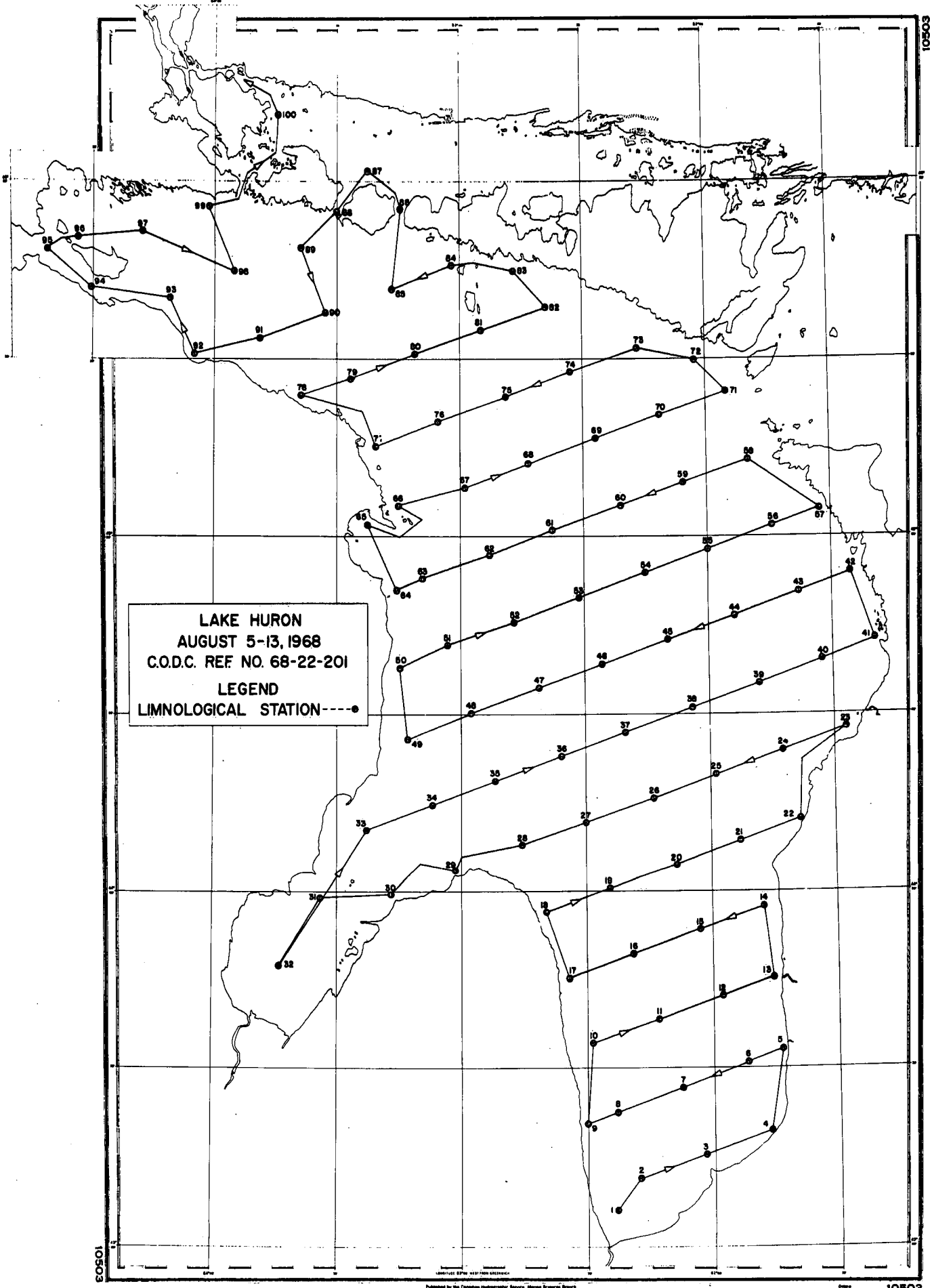
INTRODUCTION

This report is a listing of bacteriological, biological, chemical and physical data for the waters of Lake Huron and Lake Superior, observed by Government of Canada agencies in August of 1968.

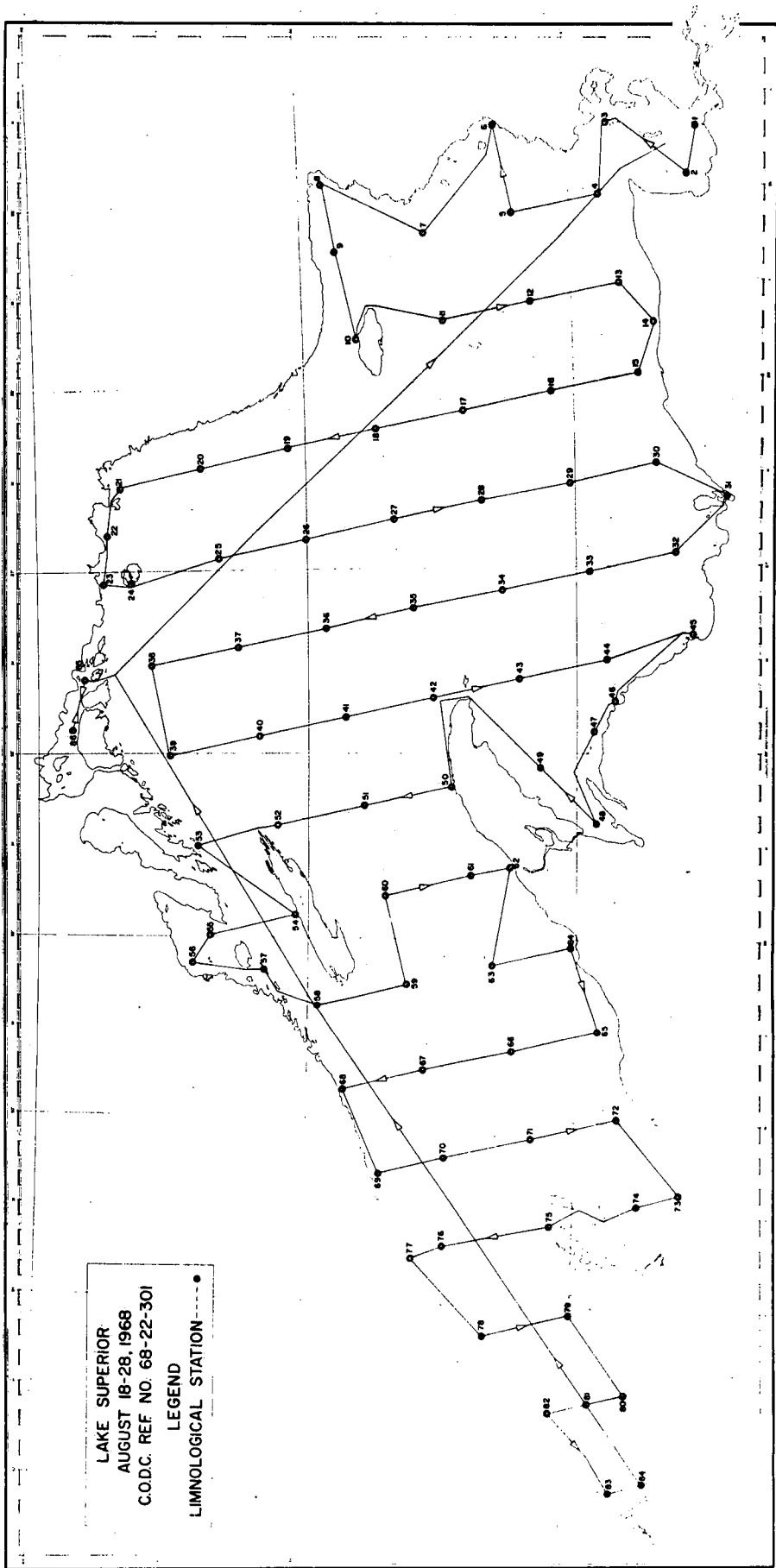
The surveys were carried out by 1) the Great Lakes Division, Inland Waters Branch, Department of Energy, Mines and Resources, 2) the Fisheries Research Board and 3) the Public Health Engineering Division, Department of National Health and Welfare. Staff from the three agencies carried out the work aboard the Canadian Scientific Ship "Limnos" and the chartered ship "M.V. Theron". Ship and launch operations were the responsibility of Marine Sciences Branch, Department of Energy, Mines and Resources. Water quality data gathered on these monitor cruises are contained in this report; supplementary bathythermograph and weather data are available on request from Canada Centre for Inland Waters, P.O. Box 5050, Burlington, Ontario.

The bacteriological data have already been published in Manuscript Report No. KR68-3 of the Public Health Engineering Division, Department of National Health and Welfare. These data are again published in the present series of reports to facilitate comparison with the biological, chemical and physical data.

Accompanying diagrams show the geographical locations of the observations listed in this data record, together with the vessel's track and the locations of bathythermograph lowerings.



Published by the Canadian Hydrographic Service, Marine Sciences Branch,
 Department of Mines and Technical Surveys, Ottawa



Summary of the Cruises and Data listed for Lake Huron and Lake Superior.

Data Report No.	1	
Cruise No.	201	301
Dates (1968)	Aug. 5 Aug. 13	Aug. 18 Aug. 28
Cruise Type	Monitor	Monitor
Vessel	Theron	Theron
No. of Stations	100	86
No. of BT Slides	100	86
Station Data:		
Date/Time	X	X
Sounding	X	X
BT Slide No.	X	X
Sample Depth	X	X
Secchi Depth	X	X
Colour Forel-ule	X	X
Temperature	X	X
Temperature Classification	X	X
Turbidity	X	X
Specific Conductance	X	X
Residue, filtrable	X	X
pH 25°C	X	X
Alkalinity, total (titrimetric)	X	X
Oxygen dissolved (Winkler)	X	X
Phosphate, total	X	X
Phosphate, reactive	X	X
Nitrate nitrite nitrogen F	X	X
Sulphate NF	X	X
Fluoride NF	X	X
Chloride NF	X	X
Silica, reactive	X	X
Hardness, total	X	X
Calcium NF atomic absorption	X	X
Magnesium, NF	X	X
Potassium, NF photometric	X	X
Sodium NF photometric	X	X
Chlorophyll A	X	X
Coliforms MF	X	X
Fecal Coliforms MF	X	X
Standard plate count at 20°C	X	X
Standard plate count at 35°C	X	X

F - Filtered
NF - Non filtered

Description of the Data Record

Information in the headings for each station:

1. C-REF-No.	5. LAT.	7. YEAR	11. No. DEPTHS
2. CONS. No.	6. LON.	8. MONTH	12. SOUNDING
3. COUNTRY		9. DAY	13. BT SLIDE No.
4. INSTITUTE		10. TIME	

Explanations:

- (1) Cruise Number: the cruises are numbered consecutively for each lake in the chronological order that they occur. However, the initial digit, of the three digits assigned to each cruise number, denotes the lake for which the data are reported.

e.g. 68-001, is the first cruise on Lake Ontario
68-102, is the second cruise on Lake Erie
68-203, is the third cruise on Lake Huron
68-304, is the fourth cruise on Lake Superior
- (2) Consecutive station number: the stations within each cruise are numbered in chronological order.
- (4) Institute: For filing purposes, the institute code was 22 (Inland Waters Branch, Department of Energy, Mines and Resources).
- (5) and (6) indicate the latitude and longitude of the vessel, in degrees, minutes and seconds, at the time of the observation.
- (7) (8) and (9) indicate the date of the observations according to Greenwich Mean Time.
- (10) Indicates the messenger time in hours and minutes (Greenwich Mean Time) for the first bottle cast at the station. The hours of each day are numbered from 00 to 23.
- (11) The number of depths at which observations were made. This should correspond to the number of depths actually listed. The count is listed to reveal omissions due to the loss of punch-cards.
- (12) The sounding is listed in metres, to the nearest tenth of a metre.
- (13) Indicates the bathythermograph slide number corresponding to the particular station. The slides are numbered consecutively within each cruise.

EXPLANATION OF THE DATA LISTING FOR EACH STATION

Parameter Name	Abbreviation (column heading)	Units used in the Data Reports	No. of Decimals Printed	Star System Code
Sample Depth	DEPTH	METRES	1	001
Secchi Depth	SECCHI	METRES	1	030
Colour Forel - ule	FOREL	forel-ule scale		031
Temperature	TEMP	°C	2	100
Temperature Classification	T CLAS	°C	2	109
Turbidity	TURB	Turbidity Units	1	123
Specific Conductance	SP CON	Micromhos 25°C		160
Residue, filtrable	F RES	mg/L	1	201
pH 25°	pH 25°	pH units	3	215
Alkalinity, total (titrimetric)	TT ALK	mgCaCO ₃ /L	1	219
Oxygen, dissolved (Winkler)	O ₂ W	mg O ₂ /L	2	245
Phosphate, total	T PO ₄	mg PO ₄ /L	3	260
Phosphate, reactive	SR PO ₄	mg PO ₄ /L	3	263
Nitrate nitrite nitrogen F	TF NO ₃	mg N/L	3	276
Sulphate NF	S SO ₄	mg SO ₄ /L	1	280
Fluoride NF	F	mg F/L	3	289
Chloride NF	CL	mg Cl/L	1	290
Silica, reactive	R SiO ₂	mg SiO ₂ /L	3	295
Hardness, total	HARD	mg CaCO ₃ /L	1	300
Calcium NF	CA NFA	mg metal/L	3	324
Magnesium NF	MG NF	mg metal/L	3	354
Potassium NF	K NFS	mg metal/L	3	372
Sodium NF	NA NFS	mg metal/L	3	388
Chlorophyll A	CHLORA	mg/M ³	1	610
Coliforms MF	MF COL	colonies/100 ml.	*	700
Fecal Coliforms MF	MF FCO	colonies/100 ml.	*	703
Standard plate count at 20°C	SPC 20	colonies/ml.	*	720
Standard plate count at 35°C	SPC 35	colonies/ml.	*	721

* - Exponential Notation

F - Filtered

NF - Non Filtered

Note: The four bacteriological parameters are listed in exponential form:

$$130E02 = 1.30 \times 10^2 = 130.$$

$$100E00 = 1.00 \times 10^0 = 1.$$

$$000E00 = 0.00 \times 10^0 = 0.$$

Note: For some parameters, the analytical methods listed in the Star System manual (Glennie and MacLeod 1967, pp. 23-33) are not the methods used in these Data Reports.

Methods of Sampling and Measurement

Water sampling was carried out on the port side of the vessel, amidships, where a davit and a "chains" platform were installed. A small wooden deckhouse provided shelter for reading the thermometers and for transferring water from the primary sampling devices to small bottles which were taken to the shipboard laboratory. The sampling procedure together with photographs of the equipment are published in Manuscript Report No. 67-1 of the Public Health Engineering Division, Department of National Health and Welfare.

Samples were collected at standard depths of 1, 5, 10, 20, 30, 50, 75, 100, 150, 200, and at 250 metres, where the depth of water permitted. The water sampling devices were metal Knudsen bottles with a capacity of 1.2 litres, and polyvinylchloride Van Dorn bottles with capacities of 2 and 3 litres. Oceanographic reversing thermometers, and rubber bulbs for bacteriological sampling, were mounted on the Knudsen bottles.

For bacteriological sampling, a sterile deflated pear-shaped rubber bulb was attached to a Knudsen bottle. A brass plug in the opening of the rubber bulb was pulled out by the reversing Knudsen bottle. (REF. 13, pp. 88-90).

Position Latitude and longitude was determined using radar ranges and bearings on identifiable shoreline features. Occasionally, dead-reckoning had to be used when the vessel was far from shore.

Sounding The depth of water at each station was measured with the ship's echo sounder. Corrections for the transducer depth have been applied.

Secchi depth is the depth of disappearance of a white disc, 30 centimetres in diameter, when it is lowered slowly into the water on the port side of the vessel.

Colour Secchi disc colour reported in Forel-ule scale.

Sample depth The length of wire was measured with a metre wheel using the water surface as the reference level. Wire-angle corrections were applied whenever corrections were greater than one metre.

Temperature Oceanographic reversing thermometers manufactured by Richter & Wiese of Germany were used in series at all the required depths. Later, each thermometer was read twice in the vessel's deckhouse. There were usually two thermometers on each Knudsen bottle. A single mean corrected temperature value is reported in this final data record, but the individual readings are kept on file at the Canada Centre for Inland Waters.

Additional temperature measurements were made with bathythermographs, and with a thermistor thermometer towed at a depth of approximately one metre while the ship was underway. The BT and thermistor data are available on request from the Canada Centre for Inland Waters.

Turbidity NF - Nephelometric, Hach Turbidimeter, Jackson Units (REF. 12).

Specific conductance 25°C - Ohmometric, Radiometer Conductivity Meter Type CDM2 (REFS. 1, 19).

NF - Non filtered.

Residue filtrable (total dissolved solids) - Gravimetric (REF. 1).

pH 25°C - Corning pH meter, Model 10 (REFS. 1, 8).

Alkalinity, total (Titrimetric) - Potentiometric Titration (REF. 23).

Dissolved Oxygen was measured using the Winkler iodometric method. Azide was not used. (REF. 14, pp. 67-78).

Total Phosphate NF - Photometric, autoanalyzer (REFS. 3, 4, 20).

Reactive Phosphate F - Photometric, autoanalyzer, double filtration, stannous chloride + hydrazine sulphate (REFS. 3, 4, 20).

Ammonia nitrogen soluble F - Photometric, autoanalyzer (REF. 23).

Nitrate Nitrite Nitrogen F - Autoanalyzer, colorimetric cadmium reduction (REFS. 6, 7).

Sulphate NF - Titrimetric, barium chloride, Thorin indicator (REFS. 2, 9).

Fluoride F - Autoanalyzer, colorimetric, SPADNS indicator (REFS. 1, 5).

Chloride NF - Autoanalyzer, colorimetric, mercury thiocyanate (REF. 15).

Reactive silica - Autoanalyzer, colorimetric, heteropoly blue (REFS. 1, 22).

Total hardness - Computed from calcium and magnesium determinations (REF. 1).

Calcium NF - Atomic absorption spectrophotometry (REF. 18).

Magnesium NF - Atomic absorption spectrophotometry (REF. 18).

Potassium NF - Autoanalyzer, flame emission photometry (REF. 21).

Sodium NF - Autoanalyzer, flame emission photometry (REF. 21).

Chlorophyll A - *in vivo* chlorophyll concentrations (REFS. 16, 17).

BACTERIOLOGICAL PARAMETERS

Storage conditions for bacteriological samples The analyses began within one or two hours after sampling, except for samples collected between midnight and 6.30 a.m. The night samples were stored at temperatures varying between 4 and 7°C for a maximum of 8 hours before their analyses commenced.

F - Filtered.
NF - Non filtered.

Coliform density determinations were obtained by membrane filtration techniques using Bacto-m Endo MF Broth. Membranes were incubated at 35°C for 20±2 hours in an atmosphere of saturated humidity. Coliform densities were recorded in terms of coliforms per 100 ml. of water sample. (REF. 1, p. 615).

Fecal coliform density determinations were obtained by membrane filtration techniques using Bacto-m FC Broth. Membranes were incubated in 44.5°C waterbath for 24±2 hours. Fecal coliform densities were recorded in terms of fecal coliforms per 100 ml. of water sample (REF. 10).

Standard plate counts The American Public Health Association Standard Methods (REF. 1, p. 592), Standard Plate Count procedure was used for the estimation of total bacterial (viable) numbers at 35°C and 20°C. Bacto-Plate Count Agar was the medium used. Total viable counts were read at 24±2 hours for plates incubated at 35°C and 48±3 hours for plates incubated at 20°C. Counts were calculated and recorded as standard plate counts per ml. of water at the specified temperature.

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(F.R.B.) Fisheries Research Board, Department of Fisheries and Forestry.
(M.S.B.) Marine Sciences Branch, Department of Energy, Mines and Resources.

Other Participating Agencies

The Canadian Oceanographic Data Centre produced and distributed the preliminary data records, and published final reports in the present series.

The Meteorological Branch of the Department of Transport provided meteorological instruments, and trained the personnel who carried out the weather observations.

Captain D. Butler and crew of Marine Sciences Branch, operated the Canadian Scientific Ship "Limnos" and Captain H.L. Maro and crew operated the chartered ship "M.V. Theron" in support of the limnological programs.

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CRUISE 68 - 201, LAKE HURON

C-REF-NO 201
 CONS. NO 001
 COUNTRY 18
 INSTITUTE 22

LAT 43-06-12N
 LON 082-23-30W

YEAR 1968
 MONTH 08
 DAY 06
 TIME 0100

NO. DEPTHS 03
 SOUNDING 0113
 BT SLIDE NO 001

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T PD4
1.0			20.32	0.01	0.1	209	9.22	
5.0			20.31	0.02	0.1	211	9.13	
10.0			18.56	0.01	0.1	210	9.61	

DEPTH	SR PD4	TFNO3	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.016	0.194	0.535		000E00		700E00	
5.0	0.004	0.182	0.540					
10.0	0.012	0.176	0.545		150E02		500E00	

C-REF-NO 201
 CONS. NO 002
 COUNTRY 18
 INSTITUTE 22

LAT 43-11-24N
 LON 082-17-54W

YEAR 1968
 MONTH 08
 DAY 06
 TIME 0216

NO. DEPTHS 05
 SOUNDING 0238
 BT SLIDE NO 002

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T PD4
1.0			20.75	0.01	0.1	209	9.13	0.014
5.0			20.78	0.04	0.1	210	9.11	
10.0			19.68	0.01	0.1	211	9.25	0.010
20.0			12.10	0.03	0.2	215	10.47	0.009
23.0			9.17	0.03	0.2	211	11.05	

DEPTH	SR PD4	TFNO3	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.005	0.188	0.560		700E00		120E01	
5.0								
10.0	0.001	0.192	0.590		100E00		130E01	
20.0	0.003	0.198	0.585					
23.0					200E00		140E01	

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	102.0	80.2	17.7	31.200	6.400	0.840	3.300
5.0							
10.0	104.0	79.1	17.7	31.200	6.000	0.820	3.200
20.0	100.0	78.5	17.7	31.200	6.400	0.840	3.200
23.0							

DEPTH	PH 25	F	CL	HARD
1.0	8.100	0.074	7.2	104.3
5.0				
10.0	8.100	0.082	6.8	102.6
20.0	8.100	0.072	6.6	104.3
23.0				

C-REF-NO 201
 CONS. NO 003
 COUNTRY 18
 INSTITUTE 22

LAT 43-15-24N
 LON 082-02-18W

YEAR 1968
 MONTH 08
 DAY 06
 TIME 0356

NO. DEPTHS 04
 SOUNDING 0189
 BT SLIDE NO 003

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			20.28	0.00	0.1	209	9.10	
5.0			20.33	0.01	0.2	206	9.11	
10.0			20.20	0.02	0.2	206	9.15	
18.0			10.14	0.03	0.3	207	11.31	

DEPTH	SR P04	TFN03	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.004	0.192	0.615		900E00		800E00	
5.0								
10.0	0.001	0.190	0.620		000E00		120E01	
18.0	0.006	0.198	0.665		000E00		300E00	

C-REF-NO 201
 CONS. NO 004
 COUNTRY 18
 INSTITUTE 22

LAT 43-19-30N
 LON 081-46-42W

YEAR 1968
 MONTH 08
 DAY 06
 TIME 0530

NO. DEPTHS 03
 SOUNDING 0085
 BT SLIDE NO 004

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			21.07	0.01	0.3	208	8.85	
5.0			21.07	0.01	0.4	206	8.96	
8.0			20.77	0.01	0.5	204	9.32	

DEPTH	SR P04	TFN03	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.005	0.192	0.615		100E00		700E00	130E02
5.0	0.005	0.188	0.605					
8.0	0.006	0.188	0.600		000E00	000E00	200E00	740E01

C-REF-NO 201
 CONS. NO 005
 COUNTRY 18
 INSTITUTE 22

LAT 43-32-54N
 LON 081-43-42W

YEAR 1968
 MONTH 08
 DAY 06
 TIME 0711

NO. DEPTHS 03
 SOUNDING 0098
 BT SLIDE NO 005

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			20.42	0.00	0.7	206	9.05	
5.0			20.43	0.00	0.7	207	9.21	
9.0			20.34	0.01	1.0	207	9.15	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.003	0.190	0.740		440E01	000E00	150E01	960E01
5.0								
9.0	0.003	0.186	0.750		000E00	000E00	210E01	200E01

C-REF-NO 201
 CONS. NO 006
 COUNTRY 18
 INSTITUTE 22

LAT 43-30-48N
 LON 081-52-00W

YEAR 1968
 MONTH 08
 DAY 06
 TIME 0814

NO. DEPTHS 05
 SOUNDING 0256
 BT SLIDE NO 006

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			19.67	0.02	0.1	204	9.27	
5.0			19.67	0.01	0.1	203	9.35	
10.0			19.57	0.00	0.1	203	9.30	
20.0			17.89	0.08	0.1	203	9.66	
24.0			10.06	0.03	0.8	207	11.06	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.194	0.900					
5.0								
10.0								
20.0								
24.0	0.005	0.220	1.700					

C-REF-NO 201
 CONS. NO 007
 COUNTRY 18
 INSTITUTE 22

LAT 43-26-42N
 LON 082-07-48W

YEAR 1968
 MONTH 08
 DAY 06
 TIME 0953

NO. DEPTHS 07
 SOUNDING 0454
 BT SLIDE NO 007

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			20.20	0.02	0.1	205	9.11	
5.0			20.20	0.02	0.1	205	9.19	
10.0			20.07	0.01	0.1	205	9.22	
20.0			11.50	0.00	0.2	198	12.00	
25.0								
30.0			5.14	0.01	0.5	204	11.53	
43.0			5.10	0.04	0.5	208	11.45	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.007	0.190	0.700		200E00		100E01	400E01
5.0								
10.0					000E00		700E00	220E01
20.0								
25.0	0.003	0.254	1.980					
30.0								
43.0	0.005	0.184	0.680		360E01		120E02	160E02

C-REF-NO 201
 CONS. NO 008
 COUNTRY 18
 INSTITUTE 22

LAT 43-22-36N
 LON 082-23-24W

YEAR 1968
 MONTH 08
 DAY 06
 TIME 1132

NO. DEPTHS 06
 SOUNDING 0347
 BT SLIDE NO 008

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	9.5	6	19.75	0.01	0.1	211	9.21	
5.0			19.67	0.02	0.2	208	9.25	
10.0			19.58	0.00	0.2	208	9.27	
20.0			8.10	0.02	0.5	209	10.83	
30.0			6.63	0.01	0.7	211	9.39	
32.0			6.37	0.01	0.8	209	9.13	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.003	0.190	0.780					
5.0								
10.0								
20.0	0.003	0.222	1.140					
30.0								
32.0	0.009	0.284	2.260					

C-REF-NO 201
 CONS. NO 009
 COUNTRY 18
 INSTITUTE 22

LAT 43-20-48N
 LON 082-30-24W

YEAR 1968
 MONTH 08
 DAY 06
 TIME 1224

NO. DEPTHS 03
 SOUNDING 0104
 BT SLIDE NO 009

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	6.0	8	19.53	0.01	0.1	208	9.33	
5.0			18.40	0.01	0.1	208	9.50	
8.0			13.74	0.02	0.1	209	10.02	

DEPTH	SR P04	TFNO3	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.184	0.780		000E00	000E00	300E00	220E01
5.0								
8.0	0.000	0.202	1.140		100E00	000E00	400E00	100E00

C-REF-NO 201
 CONS. NO 010
 COUNTRY 18
 INSTITUTE 22

LAT 43-34-00N
 LON 082-29-00W

YEAR 1968
 MONTH 08
 DAY 06
 TIME 1359

NO. DEPTHS 05
 SOUNDING 0305
 BT SLIDE NO 010

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	6.0	7	19.91	0.00	0.1	209	9.22	
5.0			19.84	0.00	0.1	207	9.22	
10.0			19.64	0.01	0.1	211	9.25	
20.0			8.87	0.01	0.2	205	12.62	
30.0			6.39	0.00	0.3	207	10.80	

DEPTH	SR P04	TFNO3	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.003	0.182	0.780		130E01		120E01	330E02
5.0								
10.0	0.004	0.168	0.880		000E00		200E00	500E00
20.0								
30.0	0.004	0.234	1.740		200E00		500E00	120E01

C-REF-NO 201
CONS. NO 011
COUNTRY 18
INSTITUTE 22

LAT 43-38-00N
LON 082-13-12W

YEAR 1968
MONTH 08
DAY 06
TIME 1536

NO. DEPTHS 07
SOUNDING 0619
BT SLIDE NO 011

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	O2 W	T PO4
1.0	8.0	6	20.05	0.01	0.3	202	9.16	0.018
5.0			19.76	0.00	0.2	204	9.29	
10.0			19.14	0.00	0.2	204	9.35	0.010
20.0			8.14	0.02	0.3	202	12.88	
30.0			4.58	0.00	0.8	200	12.17	
50.0			4.53	0.02	0.9	190	11.93	
60.0			4.52	0.01	0.9	199	11.62	0.113

DEPTH	SR PO4	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.003	0.168	0.860		000E00		100E00	270E01
5.0								
10.0	0.000	0.172	0.880		100E00		200E00	240E01
20.0								
30.0								
50.0					000E00		200E00	800E00
60.0	0.002	0.250	1.920		000E00		150E01	280E01

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	98.0	80.2	16.8	31.200	6.400	0.840	3.400
5.0							
10.0	109.0	78.5	16.4	31.200	6.400	0.860	3.500
20.0							
30.0							
50.0							
60.0	99.0	78.5	17.0	31.100	6.500	0.900	3.200

DEPTH	PH 25	F	CL	HARD
1.0	8.200	0.068	7.0	104.3
5.0				
10.0	8.100	0.075	7.0	104.3
20.0				
30.0				
50.0				
60.0	7.800	0.075	6.3	104.5

C-REF-NO 201
 CONS. NO 012
 COUNTRY 18
 INSTITUTE 22

LAT 43-42-06N
 LON 081-57-54W

YEAR 1968
 MONTH 08
 DAY 06
 TIME 1710

NO. DEPTHS 07
 SOUNDING 0735
 BT SLIDE NO 012

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	9.0	6	20.30	0.01	0.2	205	9.13	
5.0			19.76	0.01	0.2	204	9.27	
10.0			19.04	0.01	0.2	204	9.36	
20.0			14.68	0.00	0.3	202	10.87	
30.0			6.15	0.00	0.3	198	13.31	
50.0			4.35	0.03	0.3	202	12.40	
71.0			4.24	0.01	0.9	201	12.06	

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.002	0.184	0.800					
5.0								
10.0								
20.0								
30.0	0.000	0.204	1.160					
50.0								
71.0	0.000	0.250	1.900					

C-REF-NO 201
 CONS. NO 013
 COUNTRY 18
 INSTITUTE 22

LAT 43-45-12N
 LON 081-45-42W

YEAR 1968
 MONTH 08
 DAY 06
 TIME 1838

NO. DEPTHS 03
 SOUNDING 0104
 BT SLIDE NO 013

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	4.5	5	19.94	0.02	1.0	205	9.29	
5.0			20.26	0.01	0.8	205	9.33	
9.0			19.78		1.4	205	9.35	

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.190	0.960		230E01	100E00	320E02	180E03
5.0								
9.0	0.001	0.184	0.940		300E00	100E00	140E01	140E01

C-REF-NO 201
 CONS. NO 014
 COUNTRY 18
 INSTITUTE 22

LAT 43-57-24N
 LON 081-47-54W

YEAR 1968
 MONTH 08
 DAY 06
 TIME 2014

NO. DEPTHS 03
 SOUNDING 0107
 BT SLIDE NO 014

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	5.0	5	19.19	0.03	0.1	206	9.58	
5.0			18.69	0.01	0.2	206	9.66	
9.0			18.41	0.00	0.2	205	9.74	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.182	0.980		100E01	000E00	200E00	900E00
5.0								
9.0	0.000	0.182	0.960		000E00	000E00	700E00	400E00

C-REF-NO 201
 CONS. NO 015
 COUNTRY 18
 INSTITUTE 22

LAT 43-53-24N
 LON 082-03-12W

YEAR 1968
 MONTH 08
 DAY 06
 TIME 2152

NO. DEPTHS 08
 SOUNDING 0899
 BT SLIDE NO 015

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	10.5	5	21.53	0.02	0.1	206	9.19	
5.0			19.90	0.01	0.1	207	9.35	
10.0			19.57	0.01	0.1	206	9.38	
20.0			13.03	0.01	0.1	204	11.69	
30.0			6.65	0.00	0.1	201	13.63	
50.0			4.59	0.01	0.1	205	12.65	
75.0			3.94	0.01	0.5	204	12.00	
87.0			3.93	0.01	1.3	204	12.00	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.002	0.180	0.700		360E01		400E00	240E01
5.0								
10.0					140E01		100E00	100E00
20.0								
30.0	0.003	0.200	1.100					
50.0					100E00		120E02	120E01
75.0								
87.0	0.000	0.250	2.100		400E00		400E00	120E01

C-REF-NO 201
 CONS. NO 016
 COUNTRY 18
 INSTITUTE 22

LAT 43-49-18N
 LON 082-19-12W

YEAR 1968
 MONTH 08
 DAY 06
 TIME 2349

NO. DEPTHS 07
 SOUNDING 0674
 BT SLIDE NO 016

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T PD4
1.0	9.0	6	19.91	0.01	0.1	209	9.24	
5.0			19.37	0.02	0.1	207	9.41	
10.0			17.47	0.01	0.1	203	9.83	
20.0			7.34	0.00	0.1	199	13.35	
30.0			5.62	0.02	0.2	202	13.32	
50.0			4.33	0.03	0.4	204	12.26	
65.0			4.32	0.00	0.4	199	12.26	

DEPTH	SR PD4	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.174	0.960					
5.0								
10.0								
20.0	0.001	0.190	1.180					
30.0								
50.0								
65.0	0.001	0.240	1.860					

C-REF-NO 201
 CONS. NO 017
 COUNTRY 18
 INSTITUTE 22

LAT 43-45-12N
 LON 082-34-36W

YEAR 1968
 MONTH 08
 DAY 07
 TIME 0158

NO. DEPTHS 04
 SOUNDING 0134
 BT SLIDE NO 017

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T PD4
1.0			18.63	0.01	0.1	206	9.50	
5.0			18.30	0.00	0.1	207	9.58	
10.0			14.52	0.01	0.2	209	10.00	
12.0			11.55	0.04	0.2	209	8.91	

DEPTH	SR PD4	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.003	0.174	0.880		380E01	200E00	900E00	410E02
5.0								
10.0					500E00		400E01	610E01
12.0	0.002	0.184	1.100		600E00	000E00	400E01	430E01

C-REF-NO 201
CONS. NO 018
COUNTRY 18
INSTITUTE 22

LAT 43-56-30N
LON 082-40-06W

YEAR 1968
MONTH 08
DAY 07
TIME 0340

NO. DEPTHS 04
SOUNDING 0128
BT SLIDE NO 018

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			18.61	0.01	0.1	207	9.55	
5.0			18.58	0.00	0.2	207	9.60	
10.0			18.26	0.02	0.2	208	9.66	
12.0			17.71	0.00	0.2	209	9.77	

DEPTH	SR P04	TFN03	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.004	0.154	0.900		460E01	100E01	740E01	790E01
5.0								
10.0								
12.0	0.007	0.160	0.900		240E01	000E00	360E01	240E01

C-REF-NO 201
CONS. NO 019
COUNTRY 18
INSTITUTE 22

LAT 44-00-36N
LON 082-24-42W

YEAR 1968
MONTH 08
DAY 07
TIME 0513

NO. DEPTHS 07
SOUNDING 0680
BT SLIDE NO 019

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			19.00	0.02	0.1	204	9.50	
5.0			18.99	0.01	0.1	203	9.52	
10.0			18.60	0.00	0.2	204	9.64	
20.0			8.00	0.01	0.3	202	13.06	
30.0			5.64	0.01	0.5	202	13.40	
50.0			4.43	0.03	0.7	199	12.40	
66.0			4.41	0.00	3.0	196	12.17	

DEPTH	SR P04	TFN03	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.002	0.170	1.000		100E00		100E01	130E01
5.0								
10.0					200E00		700E00	460E02
20.0	0.003	0.190	1.160					
30.0								
50.0					100E00		300E00	500E00
66.0	0.004	0.240	1.820				320E01	180E01

C-REF-NO 201
CONS. NO 020
COUNTRY 18
INSTITUTE 22

LAT 44-04-42N
LON 082-08-36W

YEAR 1968
MONTH 08
DAY 07
TIME 0701

NO. DEPTHS 08
SOUNDING 0972
BT SLIDE NO 020

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T PD4
1.0			18.47	0.02	0.1	201	9.66	0.027
5.0			18.44	0.02	0.1	199	9.66	
10.0			17.87	0.00	0.1	200	9.82	
20.0			10.49	0.04	0.1	200	12.93	0.033
30.0			6.27	0.01	0.5	201	13.52	
50.0			4.38	0.03	0.5	201	12.78	
75.0			4.17	0.00	0.6	202	12.65	
96.0			4.12	0.01	4.0	200	12.31	0.033

DEPTH	SR PD4	TFNO3	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.190	1.140					
5.0								
10.0								
20.0	0.001	0.230	1.800					
30.0								
50.0								
75.0								
96.0	0.000	0.180	1.200					

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	96.0	78.5	18.4	31.100	6.300	0.820	3.100
5.0							
10.0							
20.0	93.0	77.9	17.7	30.700	6.500	0.820	3.100
30.0							
50.0							
75.0							
96.0	126.0	77.3	22.6	30.700	6.400	0.860	3.100

DEPTH	PH 25	F	CL	HARD
1.0	8.100	0.065	5.9	103.6
5.0				
10.0				
20.0	8.100	0.074	5.9	103.5
30.0				
50.0				
75.0				
96.0	7.800	0.070	6.1	103.0

C-REF-NO 201
CONS. NO 021
COUNTRY 18
INSTITUTE 22

LAT 44-08-42N
LON 081-53-12W

YEAR 1968
MONTH 08
DAY 07
TIME 0858

NO. DEPTHS 05
SOUNDING 0244
BT SLIDE NO 021

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			19.41	0.02	0.1	202	9.27	
5.0			19.41	0.01	0.1	203	9.27	
10.0			18.56	0.00	0.2	202	9.66	
20.0			13.75	0.02	0.2	199	10.97	
22.0			11.35	0.01	0.3	200	11.65	

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.192	0.900		320E01		400E00	130E01
5.0								
10.0					000E00		400E00	100E01
20.0								
22.0	0.006	0.216	1.240		000E00		740E01	900E00

C-REF-NO 201
CONS. NO 022
COUNTRY 18
INSTITUTE 22

LAT 44-12-18N
LON 081-38-36W

YEAR 1968
MONTH 08
DAY 07
TIME 1027

NO. DEPTHS 04
SOUNDING 0122
BT SLIDE NO 022

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			19.39	0.02	0.2	197	9.44	
5.0			19.34	0.03	0.3	198	9.44	
9.0			19.28	0.00	0.3	198	9.46	
10.0			19.19	0.01	0.6	198	9.50	

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.200	1.040		780E01	100E01	550E01	760E01
5.0								
9.0								
10.0	0.000	0.196	1.040		510E01	140E01	680E01	710E01

C-REF-NO 201
 CONS. NO 023
 COUNTRY 18
 INSTITUTE 22

LAT 44-28-00N
 LON 081-27-12W

YEAR 1968
 MONTH 08
 DAY 07
 TIME 1231

NO. DEPTHS 04
 SOUNDING 0195
 BT SLIDE NO 023

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	7.0	6	17.64	0.01	0.1	198	9.89	
5.0			17.65	0.02	0.1	200	9.89	
10.0			17.47	0.01	0.1	198	9.91	
18.0			16.45	0.00	0.1	199	10.13	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.206	1.160		600E00	000E00	240E01	120E01
5.0								
10.0	0.002	0.200	1.110		200E00		700E00	700E00
18.0	0.000	0.200	1.100		500E00	000E00	230E01	200E01

C-REF-NO 201
 CONS. NO 024
 COUNTRY 18
 INSTITUTE 22

LAT 44-24-06N
 LON 081-42-42W

YEAR 1968
 MONTH 08
 DAY 07
 TIME 1414

NO. DEPTHS 09
 SOUNDING 1265
 BT SLIDE NO 024

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	7.0	5	15.41	0.02	0.1	198	10.59	
5.0			15.34	0.01	2.0	198	10.64	
10.0			14.51	0.00	0.1	198	10.92	
19.0			6.04	0.00	0.1	201	13.65	
29.0			4.88	0.02	0.1	201	13.40	
48.0			4.19	0.01	0.2	204	13.41	
72.0			3.97	0.01	0.2	204	13.20	
97.0			3.88	0.01	0.5	203	13.02	
119.0			3.85	0.00	1.0	202	12.32	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.006	0.204	1.240					
5.0								
10.0								
19.0	0.001	0.204	1.240					
29.0								
48.0								
72.0								
97.0								
119.0	0.001	0.260	1.780					

C-REF-NO 201
 CONS. NO 025
 COUNTRY 18
 INSTITUTE 22

LAT 44-20-06N
 LON 081-58-54W

YEAR 1968
 MONTH 08
 DAY 07
 TIME 1611

NO. DEPTHS 07
 SOUNDING 0732
 BT SLIDE NO 025

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	9.0	5	17.28	0.01	0.1	198	10.10	
5.0			17.31	0.02	0.1	197	10.13	
10.0			16.82	0.00	0.1	198	10.27	
20.0			8.31	0.04	0.2	198	12.46	
30.0			5.85	0.00	0.4	200	12.74	
50.0			4.95	0.03	0.5	202	12.80	
71.0			4.51	0.01	0.6	198	12.64	

DEPTH	SR P04	TFNO3	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.242	1.540		000E00		500E00	270E02
5.0					000E00		100E00	500E00
10.0					000E00			
20.0	0.000	0.214	1.280					
30.0								
50.0					000E00		100E00	200E00
71.0	0.000	0.200	1.160		000E00		800E00	220E01

C-REF-NO 201
 CONS. NO 026
 COUNTRY 18
 INSTITUTE 22

LAT 44-16-00N
 LON 082-14-06W

YEAR 1968
 MONTH 08
 DAY 07
 TIME 1801

NO. DEPTHS 08
 SOUNDING 0932
 BT SLIDE NO 026

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	9.0	5	18.30	0.02	0.2	197	9.71	
5.0			18.28	0.01	0.1	197	9.74	
10.0			17.83	0.02	0.1	198	9.78	
20.0			9.81	0.00	0.8	197	13.26	
30.0			6.17	0.01	0.5	196	13.43	
50.0			4.77	0.04	0.4	199	12.87	
75.0			4.21	0.00	1.0	199	12.60	
91.0			4.17	0.00	3.0	197	12.59	

DEPTH	SR P04	TFNO3	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.200	1.140					
5.0								
10.0								
20.0	0.000	0.190	1.100					
30.0								
50.0								
75.0								
91.0	0.002	0.242	1.660					

C-REF-NO 201
 CONS. NO 027
 COUNTRY 18
 INSTITUTE 22

LAT 44-11-54N
 LON 082-30-12W

YEAR 1968
 MONTH 08
 DAY 07
 TIME 1944

NO. DEPTHS 07
 SOUNDING 0628
 BT SLIDE NO 027

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T PD4
1.0	9.0	5	18.44	0.01	0.2	203	9.57	
5.0			18.38	0.01	0.1	200	9.66	
10.0			17.20	0.03	0.1	200	10.05	
20.0			8.32	0.03	0.1	203	13.29	
30.0			5.97	0.01	0.3	204	13.34	
49.0			4.51	0.01	0.5	202	14.80	
60.0			4.51	0.00	1.0	201	12.35	

DEPTH	SR PD4	TFNO3	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.004	0.190	1.040		000E00		100E00	600E00
5.0					000E00		100E00	900E00
10.0	0.000	0.202	1.140					
20.0								
30.0					100E00		300E00	210E02
49.0					000E00		300E00	500E00
60.0	0.002	0.250	1.660					

C-REF-NO 201
 CONS. NO 028
 COUNTRY 18
 INSTITUTE 22

LAT 44-07-54N
 LON 082-45-42W

YEAR 1968
 MONTH 08
 DAY 07
 TIME 2125

NO. DEPTHS 06
 SOUNDING 0402
 BT SLIDE NO 028

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T PD4
1.0	7.5	6	20.12	0.02	0.1	213	9.35	
5.0			20.12	0.00	0.1	213	9.38	
10.0			19.54	0.00	0.1	210	9.41	
20.0			14.30	0.02	0.1	206	10.83	
30.0			8.26	0.03	0.2	205	11.06	
38.0			6.07	0.03	0.3	205	10.98	

DEPTH	SR PD4	TFNO3	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.162	0.800					
5.0								
10.0								
20.0								
30.0	0.000	0.230	1.360					
38.0	0.002	0.270	1.740					

C-REF-NO 201
CONS. NO 029
COUNTRY 18
INSTITUTE 22

LAT 44-03-42N
LON 083-01-36W

YEAR 1968
MONTH 08
DAY 07
TIME 2305

NO. DEPTHS 03
SOUNDING 0122
BT SLIDE NO 029

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	1.5	11	21.58	0.00	0.8	263	9.58	
5.0			21.51	0.02	0.8	271	9.50	
10.0			20.82	0.01	0.9	271	8.66	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.002	0.019	0.780		650E01	000E00	250E01	180E01
5.0								
10.0	0.002	0.028	0.800		420E01	000E00	220E01	300E01

C-REF-NO 201
CONS. NO 030
COUNTRY 18
INSTITUTE 22

LAT 43-59-36N
LON 083-17-12W

YEAR 1968
MONTH 08
DAY 08
TIME 0038

NO. DEPTHS 03
SOUNDING 0101
BT SLIDE NO 030

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	0.5	11	22.55	0.02	2.0	288	9.47	
5.0			22.14	0.00	2.0	288	9.43	
8.0			22.13	0.00	1.0	272	8.58	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.002	0.010	0.840		390E01	000E00	410E01	260E02
5.0								
8.0	0.002	0.022	0.780		570E01	000E00	600E00	120E01

C-REF-NO 201
 CONS. NO 031
 COUNTRY 18
 INSTITUTE 22

LAT 43-58-54N
 LON 083-34-06W

YEAR 1968
 MONTH 08
 DAY 08
 TIME 0316

NO. DEPTHS 03
 SOUNDING 0113
 BT SLIDE NO 031

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			21.42	0.02	0.5	248	9.49	
5.0			21.42	0.00	0.5	249	9.52	
10.0			13.79	0.00	1.5	222	8.51	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.027	0.740	3.4	900E00	000E00	800E00	440E01
5.0								
10.0	0.001	0.156	1.240		110E01	100E00	900E00	400E01

C-REF-NO 201
 CONS. NO 032
 COUNTRY 18
 INSTITUTE 22

LAT 43-47-12N
 LON 083-44-12W

YEAR 1968
 MONTH 08
 DAY 08
 TIME 0454

NO. DEPTHS 03
 SOUNDING 0082
 BT SLIDE NO 032

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			21.82	0.00	0.9	271	9.25	0.048
5.0			21.82	0.01	1.0	271	9.46	
7.0			21.75	0.00	2.0	271	9.36	0.073

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.012	1.300	5.8	100E00	200E00	600E00	400E01
5.0								
7.0	0.001	0.001	1.350		700E00	200E00	180E01	500E00

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	166.0	90.1	19.6	35.000	6.500	1.120	6.800
5.0							
7.0	168.0	89.0	17.0	35.500	6.600	1.160	7.000

DEPTH	PH 25	F	CL	HARD
1.0	8.300	0.091	14.0	114.2
5.0				
7.0	8.100	0.091	14.4	115.8

C-REF-NO 201
CONS. NO 033

COUNTRY 18
INSTITUTE 22

LAT 44-10-42N
LON 083-23-06W

YEAR 1968
MONTH 08
DAY 08
TIME 0811

NO. DEPTHS 04
SOUNDING 0207
BT SLIDE NO 033

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			20.61	0.01	0.1	231	9.27	
5.0			19.89	0.00	0.1	218	9.43	
10.0			18.26	0.01	0.1	205	9.75	
19.0			10.83	0.03	0.1	202	10.49	

DEPTH	SR P04	TFN03	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.110	0.760	19.5	000E00	000E00	200E01	330E01
5.0								
10.0					000E00		290E01	140E01
19.0	0.003	0.202	1.250		000E00	000E00	210E01	380E01

C-REF-NO 201
CONS. NO 034
COUNTRY 18
INSTITUTE 22

LAT 44-14-54N
LON 083-07-12W

YEAR 1968
MONTH 08
DAY 08
TIME 0942

NO. DEPTHS 07
SOUNDING 0506
BT SLIDE NO 034

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T PD4
1.0			19.41	0.01	0.1	204	9.53	0.018
5.0			19.41	0.01	0.1	207	9.50	
10.0			18.00	0.03	0.1	201	9.83	
20.0			9.75	0.03	0.2	208	11.31	
25.0								0.015
30.0			5.72	0.02	0.2	208	12.15	
48.0			4.76	0.01	0.4	200	11.61	0.016

DEPTH	SR PD4	TFNO3	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.160	0.830					
5.0								
10.0								
20.0								
25.0	0.000	0.204	1.120					
30.0								
48.0	0.000	0.260	1.800					

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	125.0	78.5	17.3	28.000	6.600	0.880	3.600
5.0							
10.0							
20.0							
25.0	124.0	78.5	16.9	26.000	6.300	0.840	3.100
30.0							
48.0	123.0	77.9	17.3	26.500	6.300	0.840	3.000

DEPTH	PH 25	F	CL	HARD
1.0	8.100	0.075	7.6	97.1
5.0				
10.0				
20.0				
25.0	7.900	0.072	6.1	90.8
30.0				
48.0	8.000	0.071	5.4	92.1

C-REF-NO 201
 CONS. NO 035
 COUNTRY 18
 INSTITUTE 22

LAT 44-19-06N
 LON 082-51-54W

YEAR 1968
 MONTH 08
 DAY 08
 TIME 1128

NO. DEPTHS 07
 SOUNDING 0689
 BT SLIDE NO 035

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	6.5	6	19.48	0.01	0.1	213	8.97	
5.0			19.49	0.03	0.1	211	9.35	
10.0			19.41	0.09	0.1	212	9.36	
20.0			14.19	0.01	0.1	203	10.61	
30.0			7.85	0.02	0.1	209	11.92	
50.0			4.79	0.01	0.2	207	11.59	
67.0			4.77	0.04	8.0	207	11.54	

DEPTH	SR PD4	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.156	0.780		000E00		960E01	170E02
5.0								
10.0					000E00		150E01	300E00
20.0								
30.0	0.000	0.206	1.080					
50.0					100E00		130E01	200E00
67.0	0.009	0.262	1.910		000E00		230E01	170E01

C-REF-NO 201
 CONS. NO 036
 COUNTRY 18
 INSTITUTE 22

LAT 44-23-12N
 LON 082-35-54W

YEAR 1968
 MONTH 08
 DAY 08
 TIME 1312

NO. DEPTHS 07
 SOUNDING 0488
 BT SLIDE NO 036

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	6.0	5	17.72	0.00	0.1	196	9.80	
5.0			17.48	0.00	0.1	200	9.82	
10.0			17.31	0.01	0.1	197	9.89	
20.0			9.13	0.01	0.1	202	12.81	
25.0								
30.0			5.92	0.02	0.1	202	12.65	
47.0			5.58	0.00	0.1	202	12.56	

DEPTH	SR PD4	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.190	1.060	0.6				
5.0								
10.0								
20.0								
25.0	0.001	0.210	1.220					
30.0								
47.0	0.015	0.232	1.480					

C-REF-NO 201
 CONS. NO 037
 COUNTRY 18
 INSTITUTE 22

LAT 44-27-12N
 LON 082-20-30W

YEAR 1968
 MONTH 08
 DAY 08
 TIME 1456

NO. DEPTHS 07
 SOUNDING 0792
 BT SLIDE NO 037

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	8.0	5	17.51	0.02	0.1	203	9.89	0.013
5.0			17.50	0.00	0.1	192	10.02	
10.0			17.49	0.01	0.1	193	10.55	
20.0			9.56	0.01	0.2	194	12.17	0.038
30.0			6.27	0.01	0.3	195	13.80	
50.0			4.58	0.01	0.4	198	12.87	
75.0			4.24	0.00	1.0	198	12.39	0.025

DEPTH	SR P04	TFN03	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.195	1.160	0.3				
5.0								
10.0								
20.0	0.000	0.200	1.150					
30.0								
50.0								
75.0	0.000	0.252	1.760					

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	119.0	76.8	16.8	26.500	6.000	0.800	2.800
5.0							
10.0							
20.0	118.0	79.1	16.6	26.500	6.200	0.820	2.800
30.0							
50.0							
75.0	123.0	77.3	18.0	26.500	6.200	0.820	2.800

DEPTH	PH 25	F	CL	HARD
1.0	8.200	0.072	4.5	90.8
5.0				
10.0				
20.0	7.900	0.072	4.9	91.7
30.0				
50.0				
75.0	7.500	0.074	4.7	91.7

C-REF-NO 201
 CONS. NO 038
 COUNTRY 18
 INSTITUTE 22

LAT 44-31-12N
 LON 082-04-18W

YEAR 1968
 MONTH 08
 DAY 08
 TIME 1705

NO. DEPTHS 10
 SOUNDING 1679
 BT SLIDE NO 038

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	9.0	5	16.01	0.00	0.2	193	10.30	
5.0			15.98	0.01	0.2	194	10.52	
10.0			14.58	0.02	0.5	193	10.94	
20.0			7.04	0.01	0.5	198	13.60	
30.0			4.95	0.00	0.5	197	13.93	
50.0			4.02	0.01	0.4	193	12.09	
75.0			3.90	0.02	0.5	196	13.09	
100.0			3.85	0.01	0.5	197	13.26	
150.0			3.75	0.00	0.4	199	13.49	
166.0			3.72	0.01	10.0	198	12.74	

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.200	1.180	0.3				
5.0								
10.0								
20.0	0.001	0.202	1.150					
30.0								
50.0								
75.0								
100.0								
150.0								
166.0	0.001	0.230	1.350					

C-REF-NO 201
 CONS. NO 039
 COUNTRY 18
 INSTITUTE 22

LAT 44-35-18N
 LON 081-48-06W

YEAR 1968
 MONTH 08
 DAY 08
 TIME 1904

NO. DEPTHS 09
 SOUNDING 1280
 BT SLIDE NO 039

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	9.0	4	15.00	0.00	0.1	198	10.80	
5.0			14.14	0.01	0.1	200	11.14	
10.0			12.25	0.00	0.2	200	11.69	
20.0			8.56	0.01	0.2	203	12.99	
30.0			4.67	0.01	0.2	202	13.51	
49.0			4.01	0.00	0.2	201	13.12	
74.0			3.90	0.01	0.2	200	13.17	
99.0			3.82	0.01	0.3	204	13.09	
122.0			3.82	0.01	50.0	202	13.24	

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.004	0.214	1.180	0.2	100E01		130E01	160E01
5.0								
10.0					000E00		150E01	140E01
20.0	0.004	0.242	1.550					
30.0								
49.0					000E00		130E01	410E01
74.0								
99.0								
122.0	0.002	0.214	1.140		000E00		280E01	220E01

C-REF-NO 201
CONS. NO 040
COUNTRY 18
INSTITUTE 22

LAT 44-39-24N
LON 081-32-42W

YEAR 1968
MONTH 08
DAY 08
TIME 2058

NO. DEPTHS 08
SOUNDING 0628
BT SLIDE NO 040

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T PD4
1.0	11.0	4	17.73	0.00	0.1	201	9.89	0.013
5.0			17.46	0.00	0.1	198	9.97	
10.0			16.55	0.00	0.1	195	10.20	
20.0			8.38	0.02	0.2	202	12.78	
25.0								0.023
30.0			4.01	0.00	0.3	206	12.93	
50.0			5.25	0.00	0.3	203	12.74	
60.0			5.01	0.00	0.5	204	12.54	0.007

DEPTH	SR P04	TFN03	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.206	1.150	0.2				
5.0								
10.0								
20.0								
25.0	0.000	0.220	1.240					
30.0								
50.0								
60.0	0.001	0.240	1.505					

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	122.0	77.3	18.6	26.000	6.000	0.820	2.800
5.0							
10.0							
20.0							
25.0	124.0	79.1	18.2	27.500	7.000	0.800	2.800
30.0							
50.0							
60.0	112.0	77.9	17.8	27.500	7.000	0.820	2.800

DEPTH	PH 25	F	CL	HARD
1.0	7.900	0.070	5.0	89.6
5.0				
10.0				
20.0				
25.0	7.700	0.070	5.7	97.5
30.0				
50.0				
60.0	7.800	0.067	5.7	97.5

C-REF-NO 201
CONS. NO 041
COUNTRY 18
INSTITUTE 22

LAT 44-42-42N
LON 081-19-42W

YEAR 1968
MONTH 08
DAY 08
TIME 2240

NO. DEPTHS 04
SOUNDING 0177
BT SLIDE NO 041

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	7.5	6	20.21	0.01	0.4	204	9.27	
5.0			19.49	0.00	0.3	205	9.41	
10.0			18.97	0.01	0.2	201	9.41	
16.0			17.67	0.00	0.2	201	9.63	

DEPTH	SR P04	TFN03	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.190	1.032	0.4	000E00	000E00	620E01	820E01
5.0								
10.0					000E00		200E00	800E00
16.0	0.000	0.190	1.060		200E00	100E00	110E01	600E00

C-REF-NO 201
CONS. NO 042
COUNTRY 18
INSTITUTE 22

LAT 44-54-00N
LON 081-25-30W

YEAR 1968
MONTH 08
DAY 09
TIME 0004

NO. DEPTHS 03
SOUNDING 0122
BT SLIDE NO 042

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	9.0	5	19.01	0.02	0.1	201	9.50	
5.0			18.82	0.01	0.1	201	9.57	
10.0			18.44	0.00	0.1	202	9.64	

DEPTH	SR P04	TFN03	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.194	1.120	0.0	300E00	000E00	700E00	210E01
5.0								
10.0	0.000	0.194	1.062		000E00	000E00	200E00	500E00

C-REF-NO 201
 CONS. NO 043
 COUNTRY 18
 INSTITUTE 22

LAT 44-50-48N
 LON 081-38-06W

YEAR 1968
 MONTH 08
 DAY 09
 TIME 0120

NO. DEPTHS 08
 SOUNDING 1011
 BT SLIDE NO 043

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			17.54	0.00	0.1	200	9.97	
5.0			17.47	0.00	0.1	199	10.00	
10.0			12.26		0.1	200	11.54	
20.0			6.91	0.01	0.1	201	13.32	
30.0			5.69	0.00	0.1	202	13.59	
50.0			4.58	0.02	0.1	202	13.01	
75.0			4.07	0.00	0.1	201	13.01	
98.0			3.94	0.05	4.5	203	11.81	

DEPTH	SR P04	TFN03	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.214	1.160	0.3	000E00		400E00	120E01
5.0					000E00		200E00	150E01
10.0	0.000	0.220	1.180					
30.0								
50.0					000E00		230E01	110E01
75.0								
98.0	0.004	0.254	1.780		200E00		220E01	190E01

C-REF-NO 201
 CONS. NO 044
 COUNTRY 18
 INSTITUTE 22

LAT 44-46-48N
 LON 081-53-48W

YEAR 1968
 MONTH 08
 DAY 09
 TIME 0311

NO. DEPTHS 09
 SOUNDING 1387
 BT SLIDE NO 044

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			15.04	0.01	0.1	199	10.84	
5.0			13.97	0.04	0.1	193	11.22	
10.0			12.46	0.03	0.2	195	11.70	
20.0			7.01	0.01	0.2	193	13.62	
30.0			5.15	0.01	0.2	196	13.63	
50.0			4.01	0.02	0.2	197	13.27	
75.0			3.95	0.00	0.2	198	13.24	
100.0			3.85	0.00	0.3	198	13.26	
135.0			3.75	0.02		199	12.98	

DEPTH	SR P04	TFN03	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.220	1.220	0.7				
5.0								
10.0								
20.0	0.000	0.216	1.180					
30.0								
50.0								
75.0								
100.0								
135.0	0.002	0.250	1.700					

C-REF-NO 201
 CONS. NO 045
 COUNTRY 18
 INSTITUTE 22

LAT 44-42-48N
 LON 082-10-00W

YEAR 1968
 MONTH 08
 DAY 09
 TIME 0502

NO. DEPTHS 10
 SOUNDING 1630
 BT SLIDE NO 045

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			15.81	0.00	0.2	198	10.38	
5.0			14.61	0.03	0.2	198	10.70	
10.0			10.94	0.00	0.3	197	11.92	
20.0			8.21	0.01	0.5	199	13.34	
30.0			5.34	0.00	0.5	213	13.85	
50.0			4.10	0.00	0.4	200	13.21	
75.0			3.92	0.03	2.0	197	13.23	
100.0			3.84	0.00	0.4	199	13.24	
150.0			3.80	0.00	0.5	195	13.26	
161.0			3.78	0.00	7.0	197	12.99	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.212	1.240	1.2				
5.0								
10.0								
20.0	0.000	0.214	1.180					
30.0								
50.0								
75.0								
100.0								
150.0								
161.0	0.001	0.232	1.620					

C-REF-NO 201
 CONS. NO 046
 COUNTRY 18
 INSTITUTE 22

LAT 44-38-42N
 LON 082-26-00W

YEAR 1968
 MONTH 08
 DAY 09
 TIME 0658

NO. DEPTHS 07
 SOUNDING 0722
 BT SLIDE NO 046

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			17.21	0.02	0.1	193	9.74	
5.0			17.14	0.02	0.1	191	10.06	
10.0			15.74	0.02	0.1	188	10.39	
20.0			9.76	0.01	0.1	195	12.46	
30.0			5.16	0.01	0.3	197	12.65	
50.0			4.73	0.00	0.3	197	12.65	
70.0			4.35	0.02	0.8	197	12.84	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.208	1.180	0.8	160E01		410E01	530E01
5.0								
10.0					000E00		800E00	140E01
20.0	0.000	0.212	1.200					
30.0								
50.0					000E00		510E01	900E00
70.0	0.001	0.236	1.580		000E00		450E01	520E01

C-REF-NO 201
 CONS. NO 047
 COUNTRY 18
 INSTITUTE 22

LAT 44-34-36N
 LON 082-41-18W

YEAR 1968
 MONTH 08
 DAY 09
 TIME 0824

NO. DEPTHS 07
 SOUNDING 0771
 BT SLIDE NO 047

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			19.07	0.00	0.1	206	9.57	
5.0			19.07	0.02	0.1	202	9.50	
10.0			17.60	0.01	0.1	203	9.77	
20.0			12.75	0.02	0.1	203	11.30	
30.0			7.22	0.00	0.2	204	12.21	
50.0			5.39	0.00	0.1	206	12.07	
75.0			4.58	0.03	12.0	204	11.78	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.002	0.180	0.940	0.7				
5.0								
10.0								
20.0								
30.0	0.002	0.230	1.310					
50.0								
75.0	0.002	0.280	1.780					

C-REF-NO 201
 CONS. NO 048
 COUNTRY 18
 INSTITUTE 22

LAT 44-30-18N
 LON 082-57-42W

YEAR 1968
 MONTH 08
 DAY 09
 TIME 1006

NO. DEPTHS 07
 SOUNDING 0628
 BT SLIDE NO 048

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			19.62	0.02	0.2	212	9.41	
5.0			18.90	0.00	0.1	205	9.66	
10.0			18.39	0.02	0.1	201	9.78	
20.0			10.67	0.02	0.2	204	12.15	
30.0			6.39	0.01	0.2	196	12.46	
50.0			4.38	0.00	0.4	204	11.79	
61.0			4.36	0.04	2.1	204	11.73	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.160	0.800	2.9				
5.0								
10.0								
20.0								
30.0	0.000	0.230	1.330					
50.0								
61.0	0.001	0.290	1.840					

C-REF-NO 201
 CONS. NO 049
 COUNTRY 18
 INSTITUTE 22

LAT 44-26-06N
 LON 083-13-00W

YEAR 1968
 MONTH 08
 DAY 09
 TIME 1141

NO. DEPTHS 05
 SOUNDING 0247
 BT SLIDE NO 049

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	4.0	9	19.48	0.01	0.2	217	9.49	
5.0			19.35	0.02	0.1	218	9.53	
10.0			16.93	0.01	0.1	212	9.79	
20.0			12.01	0.01	0.1	197	10.87	
22.0			11.86	0.04	0.1	197	10.91	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.138	0.840	4.2	100E00		600E01	110E02
5.0								
10.0					200E00		100E01	170E02
20.0								
22.0	0.001	0.200	1.160		100E00		200E01	570E01

C-REF-NO 201
 CONS. NO 050
 COUNTRY 18
 INSTITUTE 22

LAT 44-38-00N
 LON 083-14-54W

YEAR 1968
 MONTH 08
 DAY 09
 TIME 1320

NO. DEPTHS 03
 SOUNDING 0085
 BT SLIDE NO 050

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	4.0	7	19.14	0.01	0.1	211	9.57	
5.0			18.19	0.01	0.1	203	9.86	
7.0			16.74	0.01	0.1	195	10.28	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.002	0.158	0.790	3.2	100E00	000E00	400E00	120E01
5.0								
7.0	0.001	0.166	0.860		600E00	000E00	460E01	

C-REF-NO 201
 CONS. NO 051
 COUNTRY 18
 INSTITUTE 22

LAT 44-41-42N
 LON 083-03-18W

YEAR 1968
 MONTH 08
 DAY 09
 TIME 1437

NO. DEPTHS 07
 SOUNDING 0567
 BT SLIDE NO 051

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	6.0	7	18.51	0.01	0.1	191	9.74	
5.0			18.36	0.03	0.1	190	9.82	
10.0			17.22	0.02	0.1	191	10.00	
20.0			12.37	0.01	0.1	196	10.98	
30.0			9.26	0.01	0.1	197	11.28	
50.0			4.43	0.00	0.3	202	11.93	
55.0			4.40	0.08	0.5	201	11.79	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.178	0.900	1.2				
5.0								
10.0								
20.0								
30.0	0.003	0.256	1.710					
50.0								
55.0	0.000	0.206	1.200					

C-REF-NO 201
 CONS. NO 052
 COUNTRY 18
 INSTITUTE 22

LAT 44-45-42N
 LON 082-47-00W

YEAR 1968
 MONTH 08
 DAY 09
 TIME 1623

NO. DEPTHS 07
 SOUNDING 0762
 BT SLIDE NO 052

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	8.0	7	18.65	0.01	0.1	195	9.70	
5.0			18.51	0.00	0.1	196	9.70	
10.0			18.50	0.00	0.1	196	9.72	
20.0			16.10	0.02	0.1	194	11.14	
30.0			8.31	0.11	0.1	197	12.31	
50.0			5.11	0.08	0.2	201	11.97	
74.0			4.43	0.01	0.5	201	11.70	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.172	0.890	0.4	000E00		200E00	500E01
5.0								
10.0					000E00		700E00	190E01
20.0								
30.0	0.000	0.210	1.210					
50.0					000E00		270E01	100E01
74.0	0.005	0.262	1.790		000E00		110E01	300E01

C-REF-NO 201
 CONS. NO 053
 COUNTRY 18
 INSTITUTE 22

LAT 44-49-54N
 LON 082-31-12W

YEAR 1968
 MONTH 08
 DAY 09
 TIME 1757

NO. DEPTHS 06
 SOUNDING 0427
 BT SLIDE NO 053

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	10.0	5	17.22	0.01	0.3	192	9.99	
5.0			16.78	0.03	0.3	189	10.13	
10.0			15.09	0.01	0.3	191	10.39	
20.0			11.30	0.01	0.4	196	11.67	
30.0			6.96	0.01	0.5	200	12.34	
38.0			6.78	0.00	0.9	198	12.31	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.192	1.050					
5.0								
10.0								
20.0	0.000	0.198	1.120					
30.0								
38.0	0.000	0.218	1.310					

C-REF-NO 201
 CONS. NO 054
 COUNTRY 18
 INSTITUTE 22

LAT 44-54-00N
 LON 082-15-12W

YEAR 1968
 MONTH 08
 DAY 09
 TIME 1931

NO. DEPTHS 09
 SOUNDING 1423
 BT SLIDE NO 054

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	10.0	5	15.67	0.03	0.1	199	10.49	
5.0			15.14	0.02	0.1	199	10.83	
10.0			10.35	0.02	0.1	200	12.56	
20.0			7.33	0.00	0.1	202	13.21	
30.0			4.72	0.02	0.4	203	13.76	
50.0			4.00	0.00	0.4	203	13.32	
75.0			3.94	0.01	0.2	204	13.32	
98.0			3.85	0.02	0.3	203	12.70	
137.0			3.78	0.00	1.5	203	12.78	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.210	1.140					
5.0								
10.0	0.000	0.206	1.100					
20.0								
30.0								
50.0								
75.0								
98.0								
137.0	0.000	0.248	1.730					

C-REF-NO 201
CONS. NO 055

COUNTRY 18
INSTITUTE 22

LAT 44-58-00N
LON 082-00-00W

YEAR 1968
MONTH 08
DAY 09
TIME 2122

NO. DEPTHS 09
SOUNDING 1341
BT SLIDE NO 055

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	11.0	4	17.62	0.02	0.1	201	9.88	
5.0			17.62	0.00	0.1	200	9.82	
10.0			15.58	0.01	0.1	202	10.47	
20.0			7.27	0.00	0.2	201	13.41	
30.0			4.99	0.01	0.2	201	13.96	
50.0			4.07	0.00	0.2	200	13.17	
75.0			3.93	0.00	0.2	200	13.29	
100.0			3.83	0.01	0.2	205	13.31	
131.0			3.72	0.00	8.5	202	12.90	

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.005	0.208	1.030		200E02		100E01	540E01
5.0					000E00		300E00	300E00
10.0								
20.0	0.000	0.210	1.100					
30.0								
50.0								
75.0								
100.0								
131.0	0.002	0.244	1.660		300E00		210E01	640E01

C-REF-NO 201
 CONS. NO 056
 COUNTRY 18
 INSTITUTE 22

LAT 45-02-06N
 LON 081-44-12W

YEAR 1968
 MONTH 08
 DAY 09
 TIME 2325

NO. DEPTHS 10
 SOUNDING 1320
 BT SLIDE NO 056

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	10.0	4	17.69	0.00	0.1	201	9.86	
5.0			17.69	0.01	0.1	199	9.80	
10.0			17.69	0.01	0.1	200	9.82	
20.0			16.99	0.01	0.1	201	10.03	
30.0			14.53	0.01	0.1	199	10.97	
40.0								
49.0			5.01	0.01	0.1	202	13.94	
74.0			4.32	0.00	0.1	202	13.45	
98.0			4.00	0.00	1.5	203	13.32	
128.0			3.87	0.04	0.3	201	13.26	

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.206	1.060					
5.0								
10.0								
20.0								
30.0								
40.0	0.000	0.224	1.200					
49.0								
74.0								
98.0								
128.0	0.045	0.260	2.100					

C-REF-NO 201
 CONS. NO 057
 COUNTRY 18
 INSTITUTE 22

LAT 45-04-36N
 LON 081-32-48W

YEAR 1968
 MONTH 08
 DAY 10
 TIME 0136

NO. DEPTHS 05
 SOUNDING 0305
 BT SLIDE NO 057

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			18.98	0.01	0.1	201	9.49	
5.0			18.99	0.00	0.1	202	9.57	
10.0			17.95	0.01	0.1	201	9.70	
20.0			15.77	0.01	0.1	199	10.20	
28.0			8.93		0.1	201	11.50	

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.196	0.960	1.0	000E00	000E00	500E00	480E01
5.0								
10.0	0.000	0.206	0.980		000E00		300E00	140E01
20.0								
28.0	0.001	0.234	1.310		300E00	000E00	250E01	100E01

C-REF-NO 201
CONS. NO 058
COUNTRY 18
INSTITUTE 22

LAT 45-13-06N
LON 081-49-54W

YEAR 1968
MONTH 08
DAY 10
TIME 0327

NO. DEPTHS 07
SOUNDING 0579
BT SLIDE NO 058

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			16.71	0.00	0.1	199	10.03	0.016
5.0			16.71		0.1	201	10.03	
10.0			16.71	0.01	0.1	200	10.18	0.010
19.0			15.05	0.03	0.2	197	10.36	
29.0			10.99	0.00	0.2	197	11.31	
48.0			5.78	0.00	1.0	201	12.01	
53.0			5.79	0.01	1.0	198	12.59	0.017

DEPTH	SR P04	TFN03	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.208	0.960	0.5	100E00		900E00	770E01
5.0								
10.0	0.000	0.206	0.950		000E00		900E00	700E00
19.0								
29.0								
48.0								
53.0	0.001	0.244	1.440		200E00		500E00	400E00

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	122.0	77.9	18.4	27.500	6.900	0.800	2.800
5.0							
10.0	122.0	79.1	16.9	27.500	7.000	0.800	2.800
19.0							
29.0							
48.0							
53.0	121.0	76.8	17.7	27.500	7.000	0.820	2.800

DEPTH	PH 25	F	CL	HARD
1.0	7.800	0.083	5.7	97.0
5.0				
10.0	7.900	0.075	5.7	97.5
19.0				
29.0				
48.0				
53.0	7.800	0.072	5.9	97.5

C-REF-NO 201
CONS. NO 059
COUNTRY 18
INSTITUTE 22

LAT 45-09-18N
LON 082-05-48W

YEAR 1968
MONTH 08
DAY 10
TIME 0515

NO. DEPTHS 11
SOUNDING 2121
BT SLIDE NO 059

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			15.50	0.00	0.1	200	10.39	
5.0			15.47	0.02	0.1	195	10.41	
10.0			13.96	0.03	0.1	197	11.39	
20.0			10.00	0.00	0.2	199	12.59	
30.0			5.47	0.01	0.2	197	13.76	
50.0			4.43	0.00	0.3	198	13.20	
75.0			4.22	0.01	0.2	198	13.12	
100.0			4.06	0.01	1.0	196	12.78	
123.0			3.84	0.00	1.0	197	12.82	
158.0			3.82	0.00	4.0	198	12.14	
178.0								

DEPTH	SR P04	TFNO3	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.208	1.010	0.6				
5.0								
10.0								
20.0								
30.0	0.000	0.220	1.100					
50.0								
75.0								
100.0								
123.0								
158.0								
178.0	0.001	0.250	1.820					

C-REF-NO 201
CONS. NO 060
COUNTRY 18
INSTITUTE 22

LAT 45-05-12N
LON 082-21-06W

YEAR 1968
MONTH 08
DAY 10
TIME 0731

NO. DEPTHS 09
SOUNDING 1250
BT SLIDE NO 060

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			14.38	0.01	0.1	202	10.78	
5.0			14.42	0.00	0.1	201	10.78	
10.0			14.17	0.01	0.1	202	10.95	
20.0			8.43	0.04	0.1	202	13.34	
30.0			5.31	0.02	0.1	204	14.07	
50.0			4.21	0.00	0.1	204	13.20	
75.0			4.02	0.01	0.1	203	13.27	
100.0			3.95	0.03	0.2	203	12.95	
123.0			3.88	0.00	0.6	204	12.84	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.210	1.140	0.6	400E00		400E00	240E01
5.0					100E00		100E00	500E00
10.0								
20.0	0.000	0.208	1.040					
30.0								
50.0					200E00			700E00
75.0								
100.0								
123.0	0.002	0.258	1.740		100E00		300E00	600E00

C-REF-NO 201
CONS. NO 061
COUNTRY 18
INSTITUTE 22

LAT 45-01-06N
LON 082-37-42W

YEAR 1968
MONTH 08
DAY 10
TIME 0942

NO. DEPTHS 11
SOUNDING 1597
BT SLIDE NO 061

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	9.0	4	14.32	0.01	0.1	203	10.78	0.010
5.0			14.35	0.00	0.1	201	10.83	
10.0			14.13	0.00	0.1	198	10.91	
20.0			10.36	0.02	0.1	200	12.25	
25.0								0.016
30.0			5.90	0.00	0.2	201	13.34	
50.0			4.12	0.01	0.2	202	13.24	
74.0			3.90	0.00	0.2	202	13.21	
100.0			3.87	0.02	0.1	201	12.78	
148.0			3.81	0.00	0.3	203	12.93	
159.0								0.063

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.210	1.010	0.8				
5.0								
10.0								
20.0								
25.0	0.000	0.208	1.090					
30.0								
50.0								
74.0								
100.0								
148.0								
159.0	0.001	0.244	1.500					

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	122.0	76.8	16.9	27.500	6.900	0.820	2.800
5.0							
10.0							
20.0							
25.0	120.0	78.5	16.9	26.500	7.000	0.820	2.800
30.0							
50.0							
74.0							
100.0							
148.0							
159.0	126.0	76.8	18.0	26.000	7.000	0.860	2.800

DEPTH	PH 25	F	CL	HARD
1.0	7.900	0.070	5.7	97.0
5.0				
10.0				
20.0				
25.0	7.800	0.075	5.8	95.0
30.0				
50.0				
74.0				
100.0				
148.0				
159.0	7.800	0.084	5.0	93.7

C-REF-NO 201
CONS. NO 062
COUNTRY 18
INSTITUTE 22

LAT 44-57-00N
LON 082-53-00W

YEAR 1968
MONTH 08
DAY 10
TIME 1204

NO. DEPTHS 07
SOUNDING 0585
BT SLIDE NO 062

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	10.0	4	16.32	0.01	0.1	191	10.13	
5.0			16.30	0.01	0.1	193	10.19	
10.0			16.30	0.02	0.1	192	10.19	
20.0			12.27	0.05	0.1	198	11.61	
30.0			7.29	0.01	0.1	203	12.88	
50.0			5.09	0.01	0.2	202	12.43	
56.0			4.88	0.01	0.4	203	12.48	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.198	1.000	0.8				
5.0								
10.0								
20.0	0.000	0.198	0.990					
30.0								
50.0								
56.0	0.000	0.250	1.480					

C-REF-NO 201
 CONS. NO 063
 COUNTRY 18
 INSTITUTE 22

LAT 44-52-54N
 LON 083-09-24W

YEAR 1968
 MONTH 08
 DAY 10
 TIME 1356

NO. DEPTHS 06
 SOUNDING 0503
 BT SLIDE NO 063

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T PD4
1.0	7.0	6	18.02	0.01	0.1	191	9.82	
5.0			18.02	0.02	0.1	192	9.80	
10.0			18.02		0.1	190	9.80	
20.0			13.98	0.01	0.1	193	10.66	
30.0			11.08	0.02	0.1	196	11.87	
47.0			5.35	0.00	0.4	202	11.34	

DEPTH	SR PD4	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.186	0.900	1.2	300E00		200E01	220E01
5.0								
10.0					000E00		900E00	250E01
20.0								
30.0	0.000	0.256	1.360					
47.0	0.001	0.290	1.760		300E00		360E01	650E01

C-REF-NO 201
 CONS. NO 064
 COUNTRY 18
 INSTITUTE 22

LAT 44-51-00N
 LON 083-15-42W

YEAR 1968
 MONTH 08
 DAY 10
 TIME 1446

NO. DEPTHS 04
 SOUNDING 0244
 BT SLIDE NO 064

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T PD4
1.0	5.0	7	18.25	0.02	0.1	194	9.82	0.010
5.0			18.24	0.05	0.2	190	9.82	
10.0			18.13	0.02	0.2	191	9.80	0.017
20.0					0.2	189	9.80	0.016

DEPTH	SR PD4	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.172	0.780	1.6	000E00	000E00	580E01	370E01
5.0								
10.0	0.000	0.162	0.770					
20.0	0.000	0.162	0.760		000E00	000E00	600E00	260E01

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	105.0	75.6	16.3	25.000	7.000	0.800	2.700
5.0							
10.0	105.0	76.2	16.8	25.500	7.000	0.800	2.700
20.0	105.0	75.0	14.6	25.500	7.000	0.800	2.700

DEPTH	PH 25	F	CL	HARD
1.0	8.200	0.085	4.9	91.3
5.0				
10.0	8.200	0.101	5.0	92.5
20.0	8.200	0.075	4.9	92.5

C-REF-NO 201
 CONS. NO 065
 COUNTRY 18
 INSTITUTE 22

LAT 45-02-06N
 LON 083-22-42W

YEAR 1968
 MONTH 08
 DAY 10
 TIME 1626

NO. DEPTHS 03
 SOUNDING 0104
 BT SLIDE NO 065

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	2.5	11	19.09	0.01	0.4	214	8.72	
5.0			18.55	0.00	0.4	210	8.82	
9.0			15.38	0.02	0.4	193	9.22	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.002	0.074	1.010	5.7			340E04	130E04
5.0								
9.0	0.001	0.170	1.240				120E03	660E02

C-REF-NO 201
 CONS. NO 066
 COUNTRY 18
 INSTITUTE 22

LAT 45-05-12N
 LON 083-15-18W

YEAR 1968
 MONTH 08
 DAY 10
 TIME 1814

NO. DEPTHS 04
 SOUNDING 0143
 BT SLIDE NO 066

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	6.0	6	17.71	0.03	0.2	191	9.55	
5.0			17.87	0.02	0.2	190	9.80	
10.0			17.87	0.02	0.2	189	9.94	
13.0			17.87	0.02	0.2	189	9.97	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.015	0.180	0.980	1.8	100E00		290E01	580E01
5.0								
10.0	0.004	0.178	0.990					
13.0	0.000	0.178	1.000		000E00	000E00	190E01	300E01

C-REF-NO 201
CONS. NO 068
COUNTRY 18
INSTITUTE 22

LAT 45-12-24N
LON 082-43-36W

YEAR 1968
MONTH 08
DAY 10
TIME 2128

NO. DEPTHS 12
SOUNDING 1829
BT SLIDE NO 068

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	9.0	5	13.79	0.02	0.1	201	10.72	
5.0			13.79	0.00	0.1	202	10.87	
10.0			13.77	0.00	0.1	204	11.05	
20.0			8.12	0.06	0.1	199	13.31	
24.0								
30.0			4.44	0.02	0.2	199	13.55	
50.0			3.96	0.02	0.2	200	13.06	
75.0			3.89	0.01	0.1	200	13.01	
100.0			3.86	0.01	0.2	199	13.24	
141.0			3.77	0.00	0.2	201	13.01	
167.0			3.72	0.00	0.4	202	12.56	
172.0								

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCD	SPC 20	SPC 35
1.0	0.001	0.206	1.100	0.9	530E01		170E01	440E01
5.0								
10.0					100E00		700E00	900E00
20.0								
24.0	0.001	0.218	1.220					
30.0								
50.0					290E01		130E01	200E00
75.0								
100.0								
141.0								
167.0								
172.0	0.002	0.246	1.720		400E00		300E00	100E00

C-REF-NO 201
CONS. NO 069
COUNTRY 18
INSTITUTE 22

LAT 45-16-42N
LON 082-27-06W

YEAR 1968
MONTH 08
DAY 10
TIME 2336

NO. DEPTHS 10
SOUNDING 1615
BT SLIDE NO 069

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	4.0	9	13.80	0.01	0.1	198	10.95	
5.0			13.80	0.01	0.1	198	10.95	
10.0			13.80	0.01	0.1	199	11.02	
20.0			12.93	0.03	0.1	201	11.48	
30.0			5.84	0.01	0.2	202	13.69	
50.0			4.52	0.01	0.1	200	13.09	
75.0			4.12	0.00	0.1	200	13.21	
100.0			3.92	0.02	0.1	203	13.23	
150.0			3.90	0.00	0.3	203	13.01	
156.0			3.88	0.01	0.8	201	12.67	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.218	1.150	1.1				
5.0								
10.0								
20.0								
30.0	0.003	0.220	1.180					
50.0								
75.0								
100.0								
150.0								
156.0	0.000	0.248	1.720					

C-REF-NO 201
CONS. NO 070
COUNTRY 18
INSTITUTE 22

LAT 45-20-42N
LON 082-11-30W

YEAR 1968
MONTH 08
DAY 11
TIME 0212

NO. DEPTHS 09
SOUNDING 0914
BT SLIDE NO 070

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			15.08		0.1	201	10.41	
5.0			15.10	0.00	0.1	200	10.42	
10.0			15.11	0.02	0.1	198	10.44	
20.0			12.45	0.05	0.2	194	11.22	
29.0			6.39	0.01	0.2	197	12.74	
49.0			4.81	0.00	0.2	201	12.79	
56.0								
75.0			4.42	0.01	0.2	200	12.96	
86.0			4.24	0.01	0.2	201	13.02	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.220	1.050	0.8	000E00		200E00	600E00
5.0								
10.0					000E00		200E00	600E00
20.0								
29.0	0.000	0.230	1.220					
49.0					000E00		220E01	500E00
56.0	0.000	0.240	1.300					
75.0								
86.0					000E00		200E00	100E01

C-REF-NO 201
 CONS. NO 071
 COUNTRY 18
 INSTITUTE 22

LAT 45-24-48N
 LON 081-55-06W

YEAR 1968
 MONTH 08
 DAY 11
 TIME 0418

NO. DEPTHS 06
 SOUNDING 0549
 BT SLIDE NO 071

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			14.27	0.01	0.1	200	10.50	
5.0			14.27	0.01	0.1	199	10.52	
10.0			14.24	0.02	0.1	197	10.53	
20.0			11.64	0.02	0.1	196	11.25	
30.0			8.50	0.00	0.2	196	11.70	
50.0			6.90	0.01	0.2	194	12.09	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.200	0.980	0.8	270E01		300E00	600E00
5.0					100E00		100E00	800E00
10.0								
20.0								
30.0	0.001	0.206	1.200					
50.0	0.000	0.214	1.240		100E00		170E01	100E01

C-REF-NO 201
 CONS. NO 072
 COUNTRY 18
 INSTITUTE 22

LAT 45-30-00N
 LON 082-02-42W

YEAR 1968
 MONTH 08
 DAY 11
 TIME 0538

NO. DEPTHS 06
 SOUNDING 0472
 BT SLIDE NO 072

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			13.25	0.02	0.1	200	10.50	
5.0			13.23	0.01	0.2	197	11.06	
10.0			12.71	0.00	0.2	195	11.08	
20.0			10.05	0.00	0.3	192	11.54	
30.0			7.64	0.01	0.3	192	12.18	
44.0			7.25	0.01	0.4	188	12.09	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF CUL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.218	1.340	1.0	900E00	000E00	140E01	120E02
5.0								
10.0					000E00		700E00	220E01
20.0								
30.0	0.000	0.216	1.265					
44.0	0.000	0.196	0.980		000E00	000E00	800E00	120E01

C-REF-NO 201
 CONS. NO 073
 COUNTRY 18
 INSTITUTE 22

LAT 45-32-00N
 LON 082-16-48W

YEAR 1968
 MONTH 08
 DAY 11
 TIME 0712

NO. DEPTHS 07
 SOUNDING 0640
 BT SLIDE NO 073

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			12.47	0.01	0.1	200	10.75	
5.0			12.47	0.01	0.1	199	10.86	
10.0			12.22	0.01	0.1	199	10.98	
20.0			7.79	0.01	0.1	197	12.31	
30.0			6.27	0.01	0.1	200	12.96	
50.0			4.70	0.02	0.2	201	12.87	
62.0			4.42	0.01	0.4	201	12.64	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.210	1.050	1.8	000E00		300E00	700E01
5.0								
10.0					000E00		200E00	700E00
20.0	0.000	0.226	1.170					
30.0								
50.0					000E00		210E01	400E00
62.0	0.000	0.260	1.670		000E00		260E01	500E00

C-REF-NO 201
 CONS. NO 074
 COUNTRY 18
 INSTITUTE 22

LAT 45-27-54N
 LON 082-33-06W

YEAR 1968
 MONTH 08
 DAY 11
 TIME 0857

NO. DEPTHS 09
 SOUNDING 1311
 BT SLIDE NO 074

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			13.93	0.01	0.1	201	10.16	
5.0			13.92	0.02	0.1	199	10.67	
10.0			13.92	0.01	0.1	199	10.35	
20.0			7.42	0.00	0.1	198	13.27	
30.0			4.36	0.00	0.1	199	12.98	
50.0			3.95	0.01	0.2	200	13.09	
75.0			3.88	0.01	0.2	200	12.78	
100.0			3.87	0.00	0.3	199	12.85	
127.0			3.87	0.00	0.6	201	12.90	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.212	1.000	1.0				
5.0								
10.0								
20.0	0.000	0.216	1.150					
30.0								
50.0								
75.0								
100.0								
127.0	0.002	0.268	1.710					

C-REF-NO 201
 CONS. NO 075
 COUNTRY 18
 INSTITUTE 22

LAT 45-23-42N
 LON 082-48-54W

YEAR 1968
 MONTH 08
 DAY 11
 TIME 1054

NO. DEPTHS 10
 SOUNDING 1329
 BT SLIDE NO 075

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	8.0	4	13.23	0.01	0.1	201	10.92	
5.0			13.22	0.02	0.1	201	11.02	
10.0			13.23	0.00	0.1	202	11.02	
20.0			11.68	0.00	0.1	201	11.73	
25.0								
30.0			4.77	0.01	0.1	200	13.90	
50.0			4.21	0.00	0.1	204	13.26	
75.0			4.08	0.01	0.1	202	13.26	
100.0			3.93	0.00	0.1	206	13.27	
128.0			3.87	0.01	3.5	203	12.76	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.200	1.070	1.3	000E00		300E00	700E01
5.0								
10.0					000E00		100E00	900E00
20.0								
25.0	0.001	0.210	1.130					
30.0								
50.0					000E00		400E00	500E00
75.0								
100.0								
128.0	0.002	0.240	1.630		000E00		100E00	500E00

C-REF-NO 201
 CONS. NO 076
 COUNTRY 18
 INSTITUTE 22

LAT 45-19-30N
 LON 083-05-30W

YEAR 1968
 MONTH 08
 DAY 11
 TIME 1315

NO. DEPTHS 09
 SOUNDING 1210
 BT SLIDE NO 076

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	6.0	7	13.21	0.01	0.1	198	10.95	
5.0			13.20	0.01	0.1	199	10.97	
10.0			13.20	0.02	0.1	198	10.98	
20.0			11.77	0.00	0.1	199	11.61	
30.0			4.93	0.02	0.1	203	13.74	
50.0			4.06	0.00	0.1	203	13.31	
75.0			3.94	0.00	0.1	203	13.32	
100.0			3.85	0.01	0.2	201	13.20	
119.0			3.84	0.00	0.7	202	12.87	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.002	0.196	1.090	1.2				
5.0								
10.0								
20.0								
30.0	0.002	0.214	1.200					
50.0								
75.0								
100.0								
119.0	0.005	0.248	1.740					

C-REF-NO 201
 CONS. NO 077
 COUNTRY 18
 INSTITUTE 22

LAT 45-15-18N
 LON 083-20-48W

YEAR 1968
 MONTH 08
 DAY 11
 TIME 1523

NO. DEPTHS 04
 SOUNDING 0152
 BT SLIDE NO 077

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	3.0	8	17.43	0.01	0.3	187	9.63	
5.0			17.45	0.03	0.3	186	9.74	
10.0			16.68	0.01	0.1	185	9.85	
13.0					0.2	185	9.99	

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.190	1.080	1.2	000E00	000E00	390E01	140E01
5.0								
10.0	0.000	0.192	1.100		000E00		330E01	110E01
13.0	0.000	0.194	1.120		000E00	000E00	740E01	170E01

C-REF-NO 201
 CONS. NO 078
 COUNTRY 18
 INSTITUTE 22

LAT 45-24-00N
 LON 083-39-06W

YEAR 1968
 MONTH 08
 DAY 11
 TIME 1731

NO. DEPTHS 04
 SOUNDING 0229
 BT SLIDE NO 078

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	10.0	5	18.63	0.01	0.3	197	9.35	
5.0			18.62	0.02	0.3	194	9.43	
10.0			18.56	0.00	0.3	194	9.44	
21.0					0.3	196	9.52	

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.174	1.010	1.2	000E00	000E00	230E01	330E01
5.0								
10.0	0.000	0.176	1.000		000E00			
21.0	0.000	0.172	0.980		000E00	000E00	260E01	800E00

C-REF-NO 201
CONS. NO 079
COUNTRY 18
INSTITUTE 22

LAT 45-26-48N
LON 083-26-54W

YEAR 1968
MONTH 08
DAY 11
TIME 1851

NO. DEPTHS 08
SOUNDING 0802
BT SLIDE NO 079

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	8.0	6	15.18	0.01	0.1	187	10.49	0.043
5.0			15.18	0.02	0.1	187	10.47	
10.0			15.13	0.01	0.1	182	10.42	
20.0			14.90	0.00	0.3	180	10.44	
30.0			6.18	0.04	0.2	195	12.47	0.007
50.0			4.55	0.00	0.4	191	11.87	
75.0			3.97	0.01	1.5	197	12.03	
78.0			3.96	0.01	0.6	197	12.32	0.019

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.204	1.120	0.9				
5.0								
10.0								
20.0								
30.0	0.000	0.234	1.400					
50.0								
75.0								
78.0	0.000	0.262	1.720					

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0		103.0	70.4	15.2	24.000	6.500	0.780 2.600
5.0							
10.0							
20.0							
30.0		104.0	75.6	15.5	25.000	7.000	0.800 2.700
50.0							
75.0							
78.0		109.0	77.9	14.5	26.500	7.200	0.820 2.800

DEPTH	PH 25	F	CL	HARD
1.0	8.100	0.072	5.0	86.7
5.0				
10.0				
20.0				
30.0	8.000	0.073	5.1	91.3
50.0				
75.0				
78.0	7.800	0.072	5.0	95.8

C-REF-NO 201
 CONS. NO 080
 COUNTRY 18
 INSTITUTE 22

LAT 45-30-54N
 LON 083-11-12W

YEAR 1968
 MONTH 08
 DAY 11
 TIME 2034

NO. DEPTHS 10
 SOUNDING 1210
 BT SLIDE NO 080

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	10.0	4	13.59	0.00	0.3	199	10.84	
5.0			13.57	0.02				
10.0			13.32	0.01				
20.0			8.15	0.00	0.2	194	12.98	
25.0								
30.0			5.16	0.01	0.2	197	13.01	
50.0			4.13	0.01	0.2	198	13.04	
75.0			4.02	0.01	0.2	198	12.85	
100.0			3.90	0.00	0.7	200	12.51	
117.0			3.88	0.00	0.9	200	12.51	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.198	1.110	0.3	200E00		370E01	880E01
5.0								
10.0					000E00		120E01	900E00
20.0								
25.0	0.000	0.214	1.310					
30.0								
50.0					000E00		200E00	110E01
75.0								
100.0								
117.0	0.003	0.256	1.960		000E00		800E00	800E00

C-REF-NO 201
 CONS. NO 081
 COUNTRY 18
 INSTITUTE 22

LAT 45-35-00N
 LON 082-54-54W

YEAR 1968
 MONTH 08
 DAY 11
 TIME 2239

NO. DEPTHS 05
 SOUNDING 0290
 BT SLIDE NO 081

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	8.0	5	13.72	0.02	0.1	201	10.84	
5.0			13.71	0.01	0.1	200	10.86	
10.0			13.66	0.02	0.1	199	10.86	
20.0			9.91	0.00	0.1	200	11.64	
27.0			7.50	0.02	0.2	202	12.15	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.208	1.080	0.7				
5.0								
10.0								
20.0								
27.0	0.000	0.222	1.260					

C-REF-NO 201
 CONS. NO 082
 COUNTRY 18
 INSTITUTE 22

LAT 45-39-06N
 LON 082-38-54W

YEAR 1968
 MONTH 08
 DAY 12
 TIME 0009

NO. DEPTHS 08
 SOUNDING 0646
 BT SLIDE NO 082

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	7.0	7	12.44	0.03	0.1	199	10.35	
5.0			12.43	0.00	0.1	201	11.19	
10.0			12.17	0.01	0.1	198	11.28	
20.0			7.68	0.02	0.1	200	12.39	
25.0								
30.0			6.04	0.01	0.2	201	12.14	
50.0			5.33	0.01	0.2	201	12.56	
63.0			4.71	0.00	0.2	202	12.48	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.208	1.070	0.7	000E00		140E01	350E01
5.0								
10.0					000E00		700E00	690E02
20.0								
25.0	0.001	0.240	1.660					
30.0								
50.0					000E00		440E01	950E01
63.0	0.000	0.212	1.170		000E00		370E01	180E02

C-REF-NO 201
 CONS. NO 083
 COUNTRY 18
 INSTITUTE 22

LAT 45-45-00N
 LON 082-46-48W

YEAR 1968
 MONTH 08
 DAY 12
 TIME 0138

NO. DEPTHS 04
 SOUNDING 0229
 BT SLIDE NO 083

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			9.05	0.01	0.1	200	11.84	
5.0			9.05	0.00	0.1	200	11.84	
10.0			8.89	0.00	0.7	201	11.86	
20.0					0.1	200	12.15	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.220	1.270	3.6	500E00	000E00	220E01	330E01
5.0								
10.0	0.000	0.220	1.390		100E00		140E01	900E00
20.0	0.000	0.234	1.500		000E00	000E00	260E01	300E00

C-REF-NO 201
CONS. NO 084

COUNTRY 18
INSTITUTE 22

LAT 45-46-00N
LON 083-02-06W

YEAR 1968
MONTH 08
DAY 12
TIME 0311

NO. DEPTHS 05
SOUNDING 0305
BT SLIDE NO 084

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			11.65	0.03	0.1	198	11.31	
5.0			11.64	0.01	0.1	198	11.33	
10.0			11.12	0.02	0.1	198	11.44	
20.0			6.17	0.01	0.2	195	12.34	
28.0			5.80	0.00	0.3	192	12.32	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.212	1.100	2.4	000E00		200E02	650E01
5.0								
10.0	0.000	0.212	1.100					
20.0								
28.0	0.000	0.240	1.540		000E00		800E01	600E00

C-REF-NO	201
CONS. NO	085
COUNTRY	18
INSTITUTE	22

LAT 45-42-06N
LON 083-16-48W

YEAR 1968
MONTH 08
DAY 12
TIME 0448

NO. DEPTHS 08
SOUNDING 0960
BT SLIDE NO 085

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			13.38	0.00	0.1	192	10.91	0.010
5.0			13.34	0.01	0.1	184	10.97	
10.0			13.29	0.00	0.1	184	11.05	
20.0			7.55	0.00	0.2	190	13.74	0.015
30.0			4.38	0.00	0.2	195	12.85	
50.0			4.05	0.00	0.2	193	12.84	
75.0			3.89	0.00	0.4	198	12.87	
94.0			3.88	0.01	1.0	197	12.12	0.030

DEPTH	SR P04	TFNO3	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.003	0.230	1.200	1.7				
5.0								
10.0								
20.0	0.000	0.226	1.190					
30.0								
50.0								
75.0								
94.0	0.002	0.254	2.300					

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	102.0	72.1	14.5	25.500	6.700	0.780	2.700
5.0							
10.0							
20.0	175.0	76.2	14.8	26.500	6.900	0.800	2.800
30.0							
50.0							
75.0							
94.0	115.0	77.3	15.9	26.500	7.100	0.840	2.900

DEPTH	PH 25	F	CL	HARD
1.0	8.100	0.065	5.2	91.2
5.0				
10.0				
20.0	8.100	0.065	5.6	94.5
30.0				
50.0				
75.0				
94.0	7.900	0.073	6.5	95.4

C-REF-NO 201
 CONS. NO 086
 COUNTRY 18
 INSTITUTE 22

LAT 45-55-30N
 LON 083-14-30W

YEAR 1968
 MONTH 08
 DAY 12
 TIME 0659

NO. DEPTHS 07
 SOUNDING 0655
 BT SLIDE NO 086

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			15.56	0.01	0.1	165	9.72	
5.0			15.75	0.00	0.1	160	9.69	
10.0			15.51	0.01	0.1	160	9.92	
20.0			13.43	0.03	0.2	167	10.31	
30.0			8.45	0.01	0.1	187	11.87	
50.0			4.88	0.02	0.4	199	12.16	
63.0			4.87	0.00	0.4	202	12.39	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.244	1.800	2.3	500E00		150E02	850E01
5.0					000E00		130E02	100E01
10.0								
20.0								
30.0	0.000	0.238	1.420					
50.0								
63.0	0.000	0.252	1.830		100E00			800E00

C-REF-NO 201
 CONS. NO 087
 COUNTRY 18
 INSTITUTE 22

LAT 46-02-06N
 LON 083-22-36W

YEAR 1968
 MONTH 08
 DAY 12
 TIME 0833

NO. DEPTHS 07
 SOUNDING 0634
 BT SLIDE NO 087

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			14.68	0.00	0.2	164	10.17	
5.0			14.68	0.01	0.3	157	10.17	
10.0			14.25	0.01	0.2	158	10.20	
20.0			14.00	0.01	0.2	159	10.25	
30.0			9.64	0.00	0.2	172	10.91	
50.0			7.50	0.02	0.5	184	11.30	
61.0			5.18	0.02	45.0	190	8.96	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.003	0.242	1.760	2.9	200E00		740E01	410E01
5.0							890E01	340E01
10.0					300E00			
20.0								
30.0								
50.0	0.000	0.262	2.000		100E00		570E01	700E00
61.0	0.004	0.246	1.900				470E01	600E00

C-REF-NO 201
 CONS. NO 088
 COUNTRY 18
 INSTITUTE 22

LAT 45-55-06N
 LON 083-30-18W

YEAR 1968
 MONTH 08
 DAY 12
 TIME 0951

NO. DEPTHS 07
 SOUNDING 0351
 BT SLIDE NO 088

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			16.22	0.02	0.1	151	9.97	
5.0			16.23	0.00	0.2	144	9.97	
10.0			16.22	0.00	0.2	144	9.97	
20.0			10.52	0.18	0.3	170	11.42	
25.0								
30.0			5.04	0.02	0.6	197	12.56	
33.0			4.95	0.01	0.6	200	12.56	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.002	0.242	1.800	3.6	100E00		110E02	680E01
5.0								
10.0					000E00			140E01
20.0								
25.0	0.001	0.226	1.490					
30.0								
33.0	0.001	0.226	1.450		000E00		190E01	110E01

C-REF-NO 201
 CONS. NO 089
 COUNTRY 18
 INSTITUTE 22

LAT 45-49-06N
 LON 083-39-06W

YEAR 1968
 MONTH 08
 DAY 12
 TIME 1110

NO. DEPTHS 08
 SOUNDING 0802
 BT SLIDE NO 089

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			13.16	0.02	0.1	179	10.91	
5.0			13.19	0.00	0.1	178	10.87	
10.0			13.17	0.01	0.1	178	10.87	
20.0			6.40	0.01	0.1	198	12.51	
30.0			4.85	0.01	0.1	201	13.24	
50.0			4.24	0.00	0.1	200	13.09	
74.0			4.02	0.00	0.6	200	12.81	
77.0			4.03	0.01	0.7	202	12.62	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.220	1.320	2.5				
5.0								
10.0								
20.0	0.000	0.220	1.360					
30.0								
50.0								
74.0								
77.0	0.001	0.248	2.050					

C-REF-NO 201
 CONS. NO 090
 COUNTRY 18
 INSTITUTE 22

LAT 45-38-00N
 LON 083-33-00W

YEAR 1968
 MONTH 08
 DAY 12
 TIME 1246

NO. DEPTHS 09
 SOUNDING 1219
 BT SLIDE NO 090

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	7.0	7	13.66	0.01	0.1	177	10.78	
5.0			13.64	0.01	0.1	177	10.83	
10.0			13.61	0.02	0.1	178	10.86	
20.0			7.57	0.01	0.1	172	13.27	
30.0			5.42	0.00	0.1	197	13.31	
50.0			4.47	0.00	0.1	199	13.06	
75.0			4.01	0.01	0.1	202	13.13	
100.0			3.89	0.01	0.5	201	12.73	
120.0			3.86	0.00	0.9	202	12.54	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.220	1.300	1.9	000E00		600E01	160E01
5.0								
10.0					100E00		720E01	200E00
20.0	0.001	0.212	1.260					
30.0								
50.0					300E00		500E01	300E00
75.0								
100.0								
120.0	0.003	0.252	2.200		000E00		240E01	100E00

C-REF-NO 201
 CONS. NO 091
 COUNTRY 18
 INSTITUTE 22

LAT 45-33-42N
 LON 083-48-54W

YEAR 1968
 MONTH 08
 DAY 12
 TIME 1443

NO. DEPTHS 08
 SOUNDING 0823
 BT SLIDE NO 091

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	7.0	6	16.90	0.02	0.1	183	10.00	
5.0			16.90	0.00	0.1	184	10.03	
10.0			16.51	0.03	0.2	183	10.06	
20.0			15.25	0.00	0.2	182	10.20	
30.0			6.73	0.01	0.2	183	12.84	
50.0			4.18	0.01	0.2	193	12.95	
75.0			3.90	0.00	0.3	184	12.21	
80.0			3.91	0.02	0.3	184	11.92	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.174	0.880	1.7				
5.0								
10.0								
20.0								
30.0	0.001	0.230	1.540					
50.0								
75.0								
80.0	0.000	0.264	2.420					

C-REF-NO 201
 CONS. NO 092
 COUNTRY 18
 INSTITUTE 22

LAT 45-31-00N
 LON 084-05-00W

YEAR 1968
 MONTH 08
 DAY 12
 TIME 1638

NO. DEPTHS 05
 SOUNDING 0229
 BT SLIDE NO 092

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	9.0	5	18.07	0.00	0.3	228	9.66	
5.0					0.3	228	9.71	
10.0			17.79	0.01	0.3	226	9.69	
20.0			15.88	0.00	0.3	220	9.74	
21.0			14.13	0.01	0.6	221	9.85	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.150	0.800	1.3	000E00		130E02	610E01
5.0								
10.0	0.000	0.146	0.780					
20.0								
21.0	0.000	0.146	0.780		000E00		990E01	550E01

C-REF-NO 201
 CONS. NO 093
 COUNTRY 18
 INSTITUTE 22

LAT 45-40-30N
 LON 084-11-12W

YEAR 1968
 MONTH 08
 DAY 12
 TIME 1804

NO. DEPTHS 06
 SOUNDING 0463
 BT SLIDE NO 093

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	7.0	7	16.06	0.00	0.2	200	10.14	
5.0			16.04	0.01	0.2	199	10.14	
10.0			15.64	0.00	0.3	198	10.31	
20.0			8.09	0.03	0.4	198	11.26	
30.0			4.37	0.00	0.6	192	12.07	
44.0			4.03	0.00	0.9	189	12.07	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.188	1.080	1.1	000E00		100E02	540E01
5.0								
10.0					000E00		520E01	170E01
20.0	0.000	0.212	1.400					
30.0								
44.0	0.000	0.276	2.020		200E00		300E01	600E00

C-REF-NO 201
 CONS. NO 094
 COUNTRY 18
 INSTITUTE 22

LAT 45-42-12N
 LON 084-30-42W

YEAR 1968
 MONTH 08
 DAY 12
 TIME 2001

NO. DEPTHS 04
 SOUNDING 0171
 BT SLIDE NO 094

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	5.0	7	17.62	0.01	0.1	242	9.77	
5.0			17.58	0.00	0.1	245	9.85	
10.0			17.47	0.00	0.1	244	9.91	
15.0			17.32	0.02	0.1	246	9.97	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.136	0.630	1.3	200E00		130E02	800E01
5.0								
10.0					100E00		460E01	150E02
15.0	0.000	0.136	0.600		100E00		830E01	350E01

C-REF-NO 201
 CONS. NO 095
 COUNTRY 18
 INSTITUTE 22

LAT 45-48-48N
 LON 084-46-42W

YEAR 1968
 MONTH 08
 DAY 12
 TIME 2151

NO. DEPTHS 05
 SOUNDING 0305
 BT SLIDE NO 095

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	5.5	8	17.14	0.01	0.1	245	10.00	0.011
5.0			17.14	0.01	0.2	246	10.05	
10.0			17.06	0.01	0.2	247	10.28	
20.0			15.42	0.03	0.2	243	11.37	
28.0			8.71	0.01	0.4	215	9.97	0.025

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.130	0.560	2.3	000E00	000E00	760E01	260E01
5.0								
10.0					000E00		540E01	800E00
20.0								
28.0	0.001	0.244	1.790		100E00	100E00	650E01	250E02

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	141.0	100.6	19.1	31.500	9.500	1.000	3.600
5.0							
10.0							
20.0							
28.0	116.0	77.9	16.6	27.500	7.400	0.840	2.800

DEPTH	PH 25	F	CL	HARD
1.0	8.300	0.073	5.2	117.8
5.0				
10.0				
20.0				
28.0	7.900	0.067	5.4	99.1

C-REF-NO 201
 CONS. NO 096
 COUNTRY 18
 INSTITUTE 22

LAT 45-50-42N
 LON 084-34-00W

YEAR 1968
 MONTH 08
 DAY 12
 TIME 2311

NO. DEPTHS 07
 SOUNDING 0567
 BT SLIDE NO 096

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	5.0	6	15.17	0.01	0.1	193	10.56	
5.0			15.10	0.02	0.1	193	10.56	
10.0			14.46	0.01	0.2	192	10.86	
20.0			7.22	0.00	0.2	198	12.23	
30.0			5.08	0.00	0.3	201	12.18	
50.0			4.05	0.01	0.9	204	12.42	
53.0			4.05	0.01	10.0	202	12.35	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.200	1.110	2.5	400E00		470E01	340E01
5.0								
10.0								
20.0	0.000	0.250	1.820					
30.0								
50.0								
53.0	0.000	0.262	2.220		100E00		380E01	120E02

C-REF-NO 201
 CONS. NO 097
 COUNTRY 18
 INSTITUTE 22

LAT 45-51-48N
 LON 084-17-42W

YEAR 1968
 MONTH 08
 DAY 13
 TIME 0040

NO. DEPTHS 07
 SOUNDING 0701
 BT SLIDE NO 097

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			13.26	0.00	0.2	192	10.92	
5.0			12.58	0.01	0.2	192	11.15	
10.0			9.08	0.00	2.0	194	12.37	
20.0			5.42	0.01	0.2	197	12.60	
30.0			4.46	0.00	0.2	203	12.78	
50.0			4.10	0.00	1.0	204	12.39	
68.0			3.94	0.00	1.0	204	12.34	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.216	1.270	2.1	000E00		820E01	500E01
5.0								
10.0					300E00		490E01	100E01
20.0	0.000	0.232	1.440					
30.0								
50.0					000E00		800E01	170E01
68.0	0.000	0.270	2.520		600E00		490E01	170E01

C-REF-NO 201
 CONS. NO 098
 COUNTRY 18
 INSTITUTE 22

LAT 45-45-00N
 LON 083-55-00W

YEAR 1968
 MONTH 08
 DAY 13
 TIME 0256

NO. DEPTHS 09
 SOUNDING 1219
 BT SLIDE NO 098

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			13.00	0.03	0.2	168	10.67	
5.0			12.25	0.01	0.2	168	10.92	
10.0			10.18	0.02	0.5	180	11.90	
20.0			5.52	0.00	0.2	193	13.41	
30.0			4.89	0.01	0.6	195	12.96	
50.0			4.50	0.03	0.5	195	12.98	
75.0			3.97	0.00	0.3	194	12.98	
100.0			3.93	0.00	0.5	196	12.92	
120.0			3.91	0.00	1.0	195	12.43	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.230	1.480	1.3				
5.0								
10.0								
20.0								
30.0	0.000	0.248	1.440					
50.0								
75.0								
100.0								
120.0	0.001	0.280	2.240					

C-REF-NO 201
 CONS. NO 099
 COUNTRY 18
 INSTITUTE 22

LAT 45-56-06N
 LON 084-01-12W

YEAR 1968
 MONTH 08
 DAY 13
 TIME 0453

NO. DEPTHS 04
 SOUNDING 0207
 BT SLIDE NO 099

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			11.11	0.03	0.2	187	11.44	
5.0			9.86	0.13	0.4	184	11.64	
10.0			9.24	0.09	0.4	185	11.70	
20.0			4.81	0.02	0.7	194	12.50	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.236	1.440	1.7	000E00		610E01	520E02
5.0								
10.0	0.000	0.232	1.430		000E00		320E01	500E00
20.0	0.000	0.246	1.600		000E00		140E01	110E01

C-REF-NO 201
CONS. NO 100
COUNTRY 18
INSTITUTE 22

LAT 46-11-42N
LON 083-44-30W

YEAR 1968
MONTH 08
DAY 13
TIME 1240

NO. DEPTHS C4
SOUNDING C183
BT SLIDE NO 100

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.C	6.0	7	16.28	0.00	0.8	133	9.57	
5.C			16.26	0.02	0.8	134	9.66	
10.C			13.64	0.01	1.0	153	9.75	
16.C			6.96	0.01	1.5	186	10.86	

DEPTH	SR P04	TFN03	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.C	C.C01	0.248	1.860	2.5	000E00		540E01	350E02
5.C								
10.C	C.C00	0.258	1.940		100E00		190E01	140E01
16.C	C.C01	0.286	2.240		100E01		390E01	320E01

CRUISE 68 - 301, LAKE SUPERIOR

C-REF-NO 301
 CONS. NO 001
 COUNTRY 18
 INSTITUTE 22

LAT 46-30-42N
 LON 084-40-42W

YEAR 1968
 MONTH 08
 DAY 18
 TIME 1510

NO. DEPTHS 03
 SOUNDING 0110
 BT SLIDE NO 001

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	7.0	6	14.58	0.01	0.3	99	10.01	0.058
5.0			14.56	0.01	0.2	101	10.18	
9.0			14.56	0.01	0.3	101	10.21	0.060

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.002	0.170	2.140	0.6	000E00	000E00		
5.0								
9.0	0.001	0.162	2.000		000E00	000E00	530E01	

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	53.0	40.6	4.9	13.200	2.700	0.520	1.300
5.0							
9.0	54.0	40.9	3.8	13.200	2.800	0.570	1.300

DEPTH	PH 25	F	CL	HARD
1.0	7.700	0.046	1.1	44.1
5.0				
9.0	7.700	0.033	1.1	44.5

C-REF-NO 301
 CONS. NO C02
 COUNTRY 18
 INSTITUTE 22

LAT 46-33-06N
 LON 084-56-00W

YEAR 1968
 MONTH 08
 DAY 18
 TIME 1655

NO. DEPTHS C4
 SOUNDING C137
 BT SLIDE NO OC2

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	8.0	6	14.85	0.02	0.1	100	10.13	
5.0			14.83	0.02	0.2	98	10.22	
10.0			14.74	0.02	0.1	98	10.21	
12.0			14.73	0.00	0.2	99	10.29	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.006	0.158	2.400	0.5	000E00	000E00		
5.0								
10.0	0.002	0.168	2.540					
12.0	0.001	0.176	2.360		000E00	000E00	900E00	40CE00

C-REF-NO 301
 CONS. NO 003
 COUNTRY 18
 INSTITUTE 22

LAT 46-50-42N
 LON 084-38-30W

YEAR 1968
 MONTH 08
 DAY 18
 TIME 1933

NO. DEPTHS 05
 SOUNDING 0320
 BT SLIDE NO 003

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	9.0	6	15.46	0.02	0.1	98	10.07	
5.0			15.37	0.01	0.2	100	10.05	
10.0			14.24	0.00	0.2	102	10.30	102.5%
20.0			9.22	0.05	0.3	106	11.25	100%
30.0			5.39	0.00	0.4	106	11.59	94%

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.174	2.440	0.4	000E00	000E00	500E00	600E00
5.0								
10.0	0.001	0.180	2.340		400E00		200E00	400E00
20.0								
30.0	0.001	0.222	2.820		000E00	000E00	240E02	330E02

C-REF-NO 301
 CONS. NO 004
 COUNTRY 18
 INSTITUTE 22

LAT 46-52-54N
 LON 085-01-36W

YEAR 1968
 MONTH 08
 DAY 18
 TIME 2137

NO. DEPTHS 07
 SOUNDING 0610
 BT SLIDE NO 004

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	8.0	5	13.40	0.01	0.2	95	10.81	
5.0			13.39	0.01	0.2	94	10.83	
10.0			13.29	0.00	0.1	93	10.87	
19.0			11.47	0.00	0.2	95	11.26	
29.0			9.76	0.02	0.2	93	11.63	
49.0			7.11	0.01	0.2	92	11.99	
58.0			6.51	0.00	0.2	91	12.39	

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.003	0.184	2.210	0.5	180E01	400E00		
5.0								
10.0					100E00		400E00	500E00
19.0								
29.0								
49.0	0.003	0.206	2.440		000E00			
58.0	0.003	0.198	2.340		000E00	000E00	400E00	900E00

C-REF-NO 301
 CONS. NO 005
 COUNTRY 18
 INSTITUTE 22

LAT 47-12-30N
 LON 085-06-18W

YEAR 1968
 MONTH 08
 DAY 19
 TIME 0002

NO. DEPTHS 11
 SOUNDING 2134
 BT SLIDE NO 0C5

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	5.0	5	7.92	0.02	0.1	101	12.62	
5.0			7.85	0.01	0.1	94	12.70	
10.0			7.83	0.00	0.1	96	12.78	
20.0			7.32	0.00	0.1	94	12.86	
30.0			6.90	0.00	0.1	95	12.93	
50.0			4.32	0.01	0.1	95	13.24	
75.0			4.07	0.00	0.1	96	13.27	103.6%
100.0			3.96	0.02	0.1	94	13.35	104.0%
148.0			3.82	0.01	0.1	95	13.35	103.6%
197.0			3.78	0.00	0.1	96	13.32	103.2%
207.0			3.78	0.01	0.1	95	13.26	102.8%

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.195	2.600	0.7				
5.0								
10.0	0.001	0.190	2.400					
20.0								
30.0								
50.0								
75.0								
100.0								
148.0								
197.0	0.004	0.210	2.660					
207.0								

C-REF-NO 301
 CONS. NO 006
 COUNTRY 18
 INSTITUTE 22

LAT 47-16-06N
 LON 084-37-48W

YEAR 1968
 MONTH 08
 DAY 19
 TIME 0257

NO. DEPTHS 07
 SOUNDING 0664
 BT SLIDE NO 006

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			13.82	0.01	0.2	99	10.42	
5.0			13.84	0.02	0.2	98	10.78	
10.0			13.68	0.01	0.2	98	10.83	
19.0			12.45	0.00	0.2	97	11.08	
29.0			11.49	0.01	0.2	96	11.28	
45.0			10.52	0.04	0.3	99	11.49	
59.0			8.23	0.01	0.3	103	11.90	

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.002	0.180	1.860	0.7	600E00	100E00	400E00	500E00
5.0								
10.0	0.001	0.180	1.840		100E00		300E00	200E00
19.0								
29.0								
45.0					110E01		100E00	300E00
59.0	0.002	0.195	1.840		000E00	000E00		

C-REF-NO 301
CONS. NO 007
COUNTRY 18
INSTITUTE 22

LAT 47-32-12N
LON 085-11-54W

YEAR 1968
MONTH 08
DAY 19
TIME 0627

NO. DEPTHS 12
SOUNDING 2652
BT SLIDE NO 007

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			9.65	0.01	0.1	97	11.91	
5.0			9.65	0.01	0.1	99	12.05	
10.0			9.55	0.00	0.1	93	12.07	
20.0			8.65	0.00	0.1	92	12.08	
30.0			5.33	0.02		92	12.87	
50.0			4.19	0.00	0.1	90	13.14	
75.0			3.93	0.01	0.1	89	13.45	
99.0			3.88	0.01	0.1	90	13.51	
149.0			3.77	0.01	0.1	89	13.54	
199.0			3.72	0.01	0.1	90	13.21	
243.0			3.66	0.00	0.1	89	13.18	
260.0			3.62	0.01	0.1	92	12.92	

DEPTH	SR P04	TFN03	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.002	0.190	1.900	0.7	000E00	000E00	200E00	100E00
5.0								
10.0					000E00		100E00	600E00
20.0								
30.0	0.001	0.195	1.840					
50.0					000E00		100E00	300E00
75.0								
99.0								
149.0								
199.0								
243.0								
260.0	0.002	0.215	2.260		000E00	000E00	130E01	800E00

C-REF-NO 301
CONS. NO 008
COUNTRY 18
INSTITUTE 22

LAT 47-54-42N
LON 084-54-48W

YEAR 1968
MONTH 08
DAY 19
TIME 0943

NO. DEPTHS 09
SOUNDING 1143
BT SLIDE NO 008

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			13.62	0.02	0.1	92	10.39	
5.0			13.43	0.06	0.1	91	10.56	
10.0			12.71	0.03	0.1	89	10.84	
20.0			11.16	0.01	0.1	91	11.21	
30.0			10.60	0.01	0.1	92	12.33	
50.0			7.77	0.02	0.1	91	13.01	
75.0			6.06	0.01	0.1	92	12.87	
99.0			5.13	0.02	0.1	92	12.78	
111.0			4.43	0.01	0.1	92	12.75	

DEPTH	SR P04	TFN03	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.003	0.150	2.200	0.7	800E00	000E00	130E01	900E00
5.0								
10.0					100E00		100E01	500E00
20.0								
30.0								
50.0	0.001	0.185	1.900		000E00		700E00	200E01
75.0								
99.0								
111.0	0.002	0.200	2.200		100E00	000E00	100E01	900E00

C-REF-NO 301
CONS. NO 009
COUNTRY 18
INSTITUTE 22

LAT 47-52-00N
LON 085-17-06W

YEAR 1968
MONTH 08
DAY 19
TIME 1224

NO. DEPTHS 10
SOUNDING 1207
BT SLIDE NO 009

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	7.0	6	11.05	0.00	0.1	96	11.15	
5.0			11.05	0.01	0.1	97	11.32	
10.0			11.04	0.01	0.1	97	11.46	
20.0			10.11	0.01	0.1	96	11.39	
25.0								
30.0			5.88	0.02	0.1	98	12.73	
50.0			4.51	0.02	0.1	97	13.14	
75.0			4.00	0.00	0.1	97	13.24	
100.0			3.90	0.01	0.1	97	13.20	
116.0			3.88	0.01	0.1	97	13.18	

DEPTH	SR P04	TFND3	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.180	2.060	0.7	550E01	000E00	320E01	420E01
5.0								
10.0					300E00		500E00	100E01
20.0								
25.0	0.001	0.190	2.010					
30.0								
50.0					000E00		400E00	500E00
75.0								
100.0								
116.0	0.001	0.200	2.280		000E00	000E00	600E00	300E00

C-REF-NO 301
CONS. NO 010
COUNTRY 18
INSTITUTE 22

LAT 47-48-06N
LON 085-45-54W

YEAR 1968
MONTH 08
DAY 19
TIME 1512

NO. DEPTHS 07
SOUNDING 0747
BT SLIDE NO 010

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	O2 W	T P04
1.0	10.0	6	6.57	0.00	0.1	96	12.73	0.002
5.0			6.55	0.02	0.1	96	12.76	
10.0			6.54	0.03	0.1	96	12.75	0.130
19.0			6.54	0.05	0.1	96	12.78	
29.0			5.91	0.02	0.1	96	12.92	
48.0			4.92	0.02	0.1	96	13.07	
70.0			4.41	0.00	0.1	95	13.14	0.002

DEPTH	SR P04	TFNO3	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.215	2.180	0.8	150E01	100E00	300E00	180E01
5.0								
10.0	0.001	0.215	2.500		700E00		100E00	200E00
19.0								
29.0								
48.0					000E00		200E00	400E00
70.0	0.001	0.215	2.380		000E00	000E00	100E00	800E00

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	53.0	41.2	3.3	13.200	2.700	0.580	1.300
5.0							
10.0	55.0	41.2	3.5	13.200	2.800	0.610	1.300
19.0							
29.0							
48.0							
70.0	53.0	41.2	3.7	13.200	2.800	0.500	1.200

DEPTH	PH 25	F	CL	HARD
1.0	7.700	0.035	1.1	44.1
5.0				
10.0	7.800	0.028	1.5	44.5
19.0				
29.0				
48.0				
70.0	7.700	0.032	1.0	44.5

C-REF-NO 301
CONS. NO 011
COUNTRY 18
INSTITUTE 22

LAT 47-28-36N
LON 085-40-24W

YEAR 1968
MONTH 08
DAY 19
TIME 1831

NO. DEPTHS 11
SOUNDING 2103
BT SLIDE NO 011

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	8.0	6	8.26	0.00	0.1	99	12.39	
5.0			8.25	0.01	0.1	95	12.39	
10.0			8.17	0.02	0.1	94	12.41	
20.0			8.00	0.03	0.1	94	12.45	
30.0			5.57	0.00	0.1	93	13.03	
49.0			5.06	0.02	0.1	94	13.12	
74.0			4.16	0.01	0.1	93	13.20	
99.0			4.04	0.01	0.1	93	13.20	
148.0			3.90	0.00	0.1	93	13.31	
197.0			3.80	0.00	0.1	92	13.26	
205.0			3.81	0.00	0.1	91	13.17	

DEPTH	SR P04	TFNO3	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.215	2.160	0.8	200E00		200E00	140E01
5.0								
10.0	0.001	0.225	2.160		100E00		100E00	170E01
20.0								
30.0								
49.0					200E00		200E00	410E01
74.0								
99.0								
148.0								
197.0								
205.0	0.005	0.235	2.400		000E00		200E00	200E00

C-REF-NO 301
CONS. NO 012

COUNTRY 18
INSTITUTE 22

LAT 47-08-54N
LON 085-35-00W

YEAR 1968
MONTH 08
DAY 19
TIME 2127

NO. DEPTHS 11
SOUNDING 1920
BT SLIDE NO 012

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	8.0	6	8.18	0.03	0.1	92	12.36	
5.0			8.18	0.00	0.1	94	12.41	
10.0			8.10	0.00	0.1	95	12.45	
20.0			7.22	0.05	0.1	92	12.75	
30.0			5.13	0.00	0.1	95	13.17	
50.0			4.23	0.02	0.1	94	13.14	
75.0			4.14	0.01	0.1	93	13.14	
100.0			4.02	0.01	0.1	90	13.12	
150.0			3.81	0.01	0.1	96	13.15	
183.0								
190.0			3.72	0.00	0.2	96	12.76	

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.155	2.180	0.7				
5.0								
10.0	0.001	0.190	2.120					
20.0								
30.0								
50.0								
75.0								
100.0								
150.0								
183.0	0.001	0.225	2.280					
190.0								

C-REF-NO 301
 CONS. NO 013
 COUNTRY 18
 INSTITUTE 22

LAT 46-49-06N
 LON 085-30-00W

YEAR 1968
 MONTH 08
 DAY 20
 TIME 0031

NO. DEPTHS 12
 SOUNDING 1554
 BT SLIDE NO 013

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			14.36	0.02	0.1	98	10.53	
5.0			12.79	0.00	0.1	95	11.08	
10.0			9.43	0.00	0.1	94	12.36	
20.0			8.80	0.05	0.1	95	12.39	
25.0								
30.0			6.43	0.02	0.1	96	13.10	
50.0			4.99	0.04	0.1	96	13.14	
75.0			4.26	0.00	0.1	96	13.20	
100.0			4.09	0.00	0.1	96	13.24	
138.0								
150.0			3.80	0.00	0.1	95	13.17	
153.0			3.79	0.00	0.1	95	13.17	

DEPTH	SR P04	TFN03	R S102	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.220	2.020	0.6	100E00		800E00	230E01
5.0								
10.0					100E00		700E00	630E01
20.0								
25.0	0.001	0.245	2.080					
30.0								
50.0					000E00		500E00	300E01
75.0								
100.0								
138.0	0.002	0.250	2.140					
150.0								
153.0					000E00		500E00	490E01

C-REF-NO 301
 CONS. NO 014
 COUNTRY 18
 INSTITUTE 22

LAT 46-41-30N
 LON 085-42-42W

YEAR 1968
 MONTH 08
 DAY 20
 TIME 0247

NO. DEPTHS 04
 SOUNDING 0152
 BT SLIDE NO 014

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			16.22	0.03	0.1	94	9.94	
5.0			16.23	0.02	0.1	95	9.99	
10.0			15.75	0.02	0.1	94	10.07	
13.0			15.29	0.02	0.1	95	10.21	

DEPTH	SR P04	TFN03	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.002	0.235	1.940	0.5	120E01	000E00	200E00	110E01
5.0								
10.0								
13.0	0.001	0.240	1.900		000E00	000E00	400E00	120E01

C-REF-NO 301
 CONS. NO 015
 COUNTRY 18
 INSTITUTE 22

LAT 46-45-30N
 LON 085-58-42W

YEAR 1968
 MONTH 08
 DAY 20
 TIME 0420

NO. DEPTHS 07
 SOUNDING 0558
 BT SLIDE NO 015

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			15.74	0.01	0.1	94	10.13	
5.0			15.45	0.00	0.1	94	10.19	
10.0			13.58	0.03	0.1	95	10.69	
19.0			11.01	0.05	0.1	93	11.51	
29.0			8.27	0.01	0.1	93	12.21	
49.0			5.54	0.00	0.1	93	12.72	
52.0			5.41	0.02	0.1	95	12.78	

DEPTH	SR P04	TFN03	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.245	1.910	0.5	000E00		100E00	800E00
5.0								
10.0	0.001	0.250	1.900		000E00		100E00	800E00
19.0								
29.0								
49.0								
52.0	0.001	0.300	2.010		000E00		100E00	400E00

C-REF-NO 301
 CONS. NO 016
 COUNTRY 18
 INSTITUTE 22

LAT 47-05-00N
 LON 086-03-54W

YEAR 1968
 MONTH 08
 DAY 20
 TIME 0638

NO. DEPTHS 10
 SOUNDING 1981
 BT SLIDE NO 016

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T PD4
1.0			8.78	0.02	0.1	96	11.96	
5.0			8.77	0.04	0.1	92	12.13	
10.0			8.46	0.03	0.1	94	12.33	
19.0			7.11	0.05	0.1	91	12.78	
29.0			4.62	0.01	0.1	92	13.04	
49.0			4.33	0.00	0.1	91	13.06	
74.0			3.95	0.01	0.1	91	13.04	
99.0			3.94	0.00	0.1	92	13.15	
148.0			4.58	0.01	0.1	94	13.17	
193.0			3.70	0.00	0.1	97	13.03	

DEPTH	SR PD4	TFNO3	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.199	2.320	0.5				
5.0								
10.0	0.001	0.213	2.440					
19.0								
29.0								
49.0								
74.0								
99.0								
148.0								
193.0	0.001	0.227	2.380					

C-REF-NO 301
 CONS. NO 017
 COUNTRY 18
 INSTITUTE 22

LAT 47-24-54N
 LON 086-09-42W

YEAR 1968
 MONTH 08
 DAY 20
 TIME 0910

NO. DEPTHS 09
 SOUNDING 1402
 BT SLIDE NO 017

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			7.84	0.00	0.1	96	12.10	0.005
5.0			7.85	0.02	0.1	98	12.13	
10.0			7.82	0.01	0.1	96	12.22	0.015
20.0			6.67	0.03	0.1	97	12.75	
30.0			4.87	0.01	0.1	96	13.07	
50.0			4.08	0.02	0.2	97	13.09	
75.0			3.97	0.01	0.1	96	13.17	
100.0			3.78	0.00	0.7	98	13.09	
137.0			3.93	0.01	0.2	96	12.79	0.041

DEPTH	SR P04	TFN03	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.217	2.280	0.6	000E00		200E00	500E00
5.0								
10.0	0.001	0.227	2.280		000E00		100E00	100E00
20.0								
30.0								
50.0					000E00		700E00	100E00
75.0								
100.0								
137.0	0.001	0.307	2.340		000E00		400E00	800E00

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	54.0	40.9	6.3	13.200	2.800	0.500	1.200
5.0							
10.0	53.0	40.9	3.8	13.200	2.800	0.500	1.200
20.0							
30.0							
50.0							
75.0							
100.0							
137.0	53.0	40.6	3.5	13.200	2.800	0.500	1.200

DEPTH	PH 25	F	CL	HARD
1.0	7.700	0.018	1.1	44.5
5.0				
10.0	7.800	0.038	1.5	44.5
20.0				
30.0				
50.0				
75.0				
100.0				
137.0	7.800	0.026	1.5	44.5

C-REF-NO 301
 CONS. NO 018
 COUNTRY 18
 INSTITUTE 22

LAT 47-44-18N
 LON 086-14-54W

YEAR 1968
 MONTH 08
 DAY 20
 TIME 1208

NO. DEPTHS 11
 SOUNDING 2377
 BT SLIDE NO 018

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	11.0	5	4.91	0.01	0.1	95	12.86	
5.0			4.90	0.00	0.1	96	13.01	
10.0			4.89	0.00	0.1	96	13.09	
20.0			4.88	0.03	0.1	97	13.14	
30.0			4.86	0.01	0.1	96	13.17	
50.0			4.43	0.02	0.1	96	13.20	
75.0			4.23	0.00	0.1	96	13.26	
100.0			4.14	0.00	0.1	95	13.23	
150.0			4.05	0.01	0.1	97	13.21	
200.0			3.92	0.00	0.1	96	13.21	
235.0			3.76	0.01	0.1	95	13.20	

DEPTH	SR P04	TFN03	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.300	2.300	0.8				
5.0								
10.0	0.001	0.296	2.300					
20.0								
30.0								
50.0								
75.0								
100.0								
150.0								
200.0								
235.0	0.001	0.296	2.460					

C-REF-NO 301
 CONS. NO 019
 COUNTRY 18
 INSTITUTE 22

LAT 48-04-00N
 LON 086-20-36W

YEAR 1968
 MONTH 08
 DAY 20
 TIME 1523

NO. DEPTHS 12
 SOUNDING 2256
 BT SLIDE NO 019

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	12.0	6	4.91	0.01	0.1	95	12.97	
5.0			4.90	0.01	0.1	96	13.10	
10.0			4.87	0.02	0.1	93	13.14	
20.0			4.81	0.03	0.1	92	13.10	
29.0			4.72	0.00	0.1	90	13.10	
49.0			4.54	0.01	0.1	92	13.10	
73.0			4.22	0.00	0.1	92	13.12	
99.0			3.91	0.00	0.2	91	13.10	
149.0			3.81	0.00	0.1	92	13.04	
197.0			3.77	0.03	0.1	94	13.07	
216.0								
221.0			3.71	0.00	0.2	94	13.10	

DEPTH	SR P04	TFNO3	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.002	0.304	2.340	0.7	000E00		100E00	500E00
5.0								
10.0	0.002	0.310	2.340		000E00		100E00	100E00
20.0								
29.0								
49.0					000E00		200E00	500E00
73.0								
99.0								
149.0								
197.0								
216.0	0.002	0.310	2.360					
221.0					000E00		500E00	900E00

C-REF-NO 301
CONS. NO 020

COUNTRY 18
INSTITUTE 22

LAT 48-23-48N
LON 086-26-36W

YEAR 1968
MONTH 08
DAY 20
TIME 1842

NO. DEPTHS 10
SOUNDING 1899
BT SLIDE NO 020

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	O2 W	T P04
1.0	9.0	6	8.82	0.00	0.1	94	11.96	
5.0			8.82	0.01	0.1	93	11.99	
10.0			8.79	0.02	0.1	92	12.00	
20.0			8.23	0.04	0.1	92	12.76	
30.0			5.86	0.00	0.1	92	12.78	
50.0			5.36	0.03	0.1	92	12.86	
75.0			4.64	0.00	0.1	93	13.04	
100.0			4.27	0.00	0.2	93	13.14	
149.0			3.96	0.00	0.2	93	13.14	
185.0			3.88	0.01	0.2	93	13.27	

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.204	2.160	0.7				
5.0								
10.0	0.001	0.252	2.070					
20.0								
30.0								
50.0								
75.0								
100.0								
149.0								
185.0	0.001	0.274	2.360					

C-REF-NO 301
CONS. NO 021
COUNTRY 18
INSTITUTE 22

LAT 48-42-06N
LON 086-32-48W

YEAR 1968
MONTH 08
DAY 20
TIME 2141

NO. DEPTHS 05
SOUNDING 0305
BT SLIDE NO 021

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T PD4
1.0	6.0	10	11.65	0.00	0.1	98	10.33	0.054
5.0			11.64	0.00	0.1	98	10.84	
10.0			11.35	0.00	0.1	98	10.87	0.013
20.0			10.74	0.02	0.1	98	11.20	
30.0			10.21	0.01	0.1	96	11.48	0.008

DEPTH	SR PD4	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.244	2.200	0.8	700E00	100E00	320E01	100E01
5.0								
10.0	0.001	0.226	2.200					
20.0								
30.0	0.001	0.222	2.240		200E00	000E00	230E01	110E01

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	53.0	41.5	5.3	13.200	2.800	0.500	1.300
5.0							
10.0	54.0	41.2	5.0	13.600	2.900	0.670	1.500
20.0							
30.0	54.0	41.8	5.8	13.800	2.800	0.610	1.400

DEPTH	PH 25	F	CL	HARD
1.0	7.800	0.031	1.3	44.5
5.0				
10.0	7.800	0.035	1.5	45.9
20.0				
30.0	7.800	0.026	1.1	46.0

C-REF-NO 301
 CONS. NO 022
 COUNTRY 18
 INSTITUTE 22

LAT 48-44-54N
 LON 086-48-30W

YEAR 1968
 MONTH 08
 DAY 20
 TIME 2339

NO. DEPTHS 08
 SOUNDING 0899
 BT SLIDE NO 022

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T PO4
1.0	6.0	10	10.02	0.00	0.1	97	11.37	
5.0			10.01	0.00	0.1	97	11.54	
10.0			9.47	0.03	0.1	96	11.54	
20.0			7.56	0.06	0.1	98	12.31	
30.0			6.92	0.01	0.1	96	12.36	
50.0			5.71	0.01	0.1	96	12.47	
75.0			4.75	0.00	0.1	96	12.58	
88.0			4.24	0.03	0.1	98	13.10	

DEPTH	SR PO4	TFNO3	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.218	2.200	0.8	900E00	000E00	110E01	700E00
5.0								
10.0					100E00		800E00	100E00
20.0	0.001	0.234	2.240					
30.0								
50.0								
75.0								
88.0	0.001	0.258	2.240		000E00	000E00	100E00	100E00

C-REF-NO 301
 CONS. NO 023
 COUNTRY 18
 INSTITUTE 22

LAT 48-45-42N
 LON 087-04-06W

YEAR 1968
 MONTH 08
 DAY 21
 TIME 0110

NO. DEPTHS 10
 SOUNDING 1240
 BT SLIDE NO 023

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T PO4
1.0			10.04	0.01	0.1	98	11.35	
5.0			10.01	0.00	0.2	98	11.59	
10.0			9.88	0.00	0.2	99	11.59	
20.0			9.26	0.03	0.1	98	11.77	
30.0			7.85	0.00	0.2	100	12.05	
50.0			6.34	0.00	0.3	100	12.58	
75.0			5.47	0.00	0.2	98	12.78	
100.0			4.72	0.02	0.3	99	13.01	
112.0			4.61	0.05	0.2	98	13.01	
123.0								

DEPTH	SR PO4	TFNO3	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.242	2.240	1.0	310E01	000E00	110E02	130E02
5.0								
10.0					370E01		990E01	120E02
20.0								
30.0	0.001	0.260	2.320					
50.0								
75.0								
100.0								
112.0					110E01	000E00	160E01	160E01
123.0	0.001	0.240	2.300					

C-REF-NO 301
 CONS. NO 024
 COUNTRY 18
 INSTITUTE 22

LAT 48-39-36N
 LON 087-03-54W

YEAR 1968
 MONTH 08
 DAY 21
 TIME 0251

NO. DEPTHS 05
 SOUNDING 0274
 BT SLIDE NO 024

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			7.42	0.02	0.1	97	12.42	
5.0			7.40	0.01	0.1	97	12.47	
10.0			7.20	0.02	0.1	97	12.48	
20.0			5.89	0.03	0.1	97	12.70	
25.0			5.20	0.01	0.1	97	12.83	

DEPTH	SR P04	TFNO3	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.278	2.300	0.9	100E00	000E00	120E01	860E01
5.0								
10.0	0.001	0.246	2.240		000E00		300E00	200E02
20.0								
25.0	0.000	0.240	2.280		000E00	000E00	120E02	150E02

C-REF-NO 301
 CONS. NO 025
 COUNTRY 18
 INSTITUTE 22

LAT 48-19-48N
 LON 086-56-18W

YEAR 1968
 MONTH 08
 DAY 21
 TIME 0521

NO. DEPTHS 10
 SOUNDING 2042
 BT SLIDE NO 025

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			5.42	0.01	0.1	95	12.90	
5.0			5.67	0.08	0.1	97	12.90	
10.0			5.38	0.00	0.1	96	12.89	
20.0			5.07	0.02	0.1	92	12.92	
30.0			4.83	0.01	0.1	94	13.14	
50.0			4.49	0.00	0.1	96	13.15	
75.0			4.02	0.00	0.1	97	13.15	
100.0			3.83	0.00	0.1	92	13.14	
149.0			3.76	0.00	0.1	99	13.06	
199.0			3.65	0.01	0.1	94	13.07	

DEPTH	SR P04	TFNO3	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.000	0.240	2.050	0.9				
5.0								
10.0	0.000	0.266	2.050					
20.0								
30.0								
50.0								
75.0								
100.0								
149.0								
199.0	0.002	0.266	2.300					

C-REF-NO 301
CONS. NO 026
COUNTRY 18
INSTITUTE 22

LAT 48-00-06N
LON 086-50-18W

YEAR 1968
MONTH 08
DAY 21
TIME 0807

NO. DEPTHS 11
SOUNDING 2231
BT SLIDE NO 026

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			6.42	0.01	0.1	94	12.39	0.003
5.0			6.39	0.01	0.1	94	12.59	
10.0			6.40	0.01	0.1	93	12.64	0.032
20.0			6.39	0.05	0.1	93	12.66	
30.0			5.99	0.01	0.1	94	12.76	
50.0			4.98	0.01	0.1	93	12.89	
75.0			4.11	0.01	0.1	93	13.12	
100.0			3.95	0.00	0.1	94	13.10	
150.0			3.80	0.01	0.1	96	13.09	
200.0			3.71	0.01	0.1	95	13.04	
218.0			3.69		0.1	95	13.00	0.029

DEPTH	SR P04	TFN03	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.290	2.100	0.9				
5.0								
10.0	0.001	0.300	2.100					
20.0								
30.0								
50.0								
75.0								
100.0								
150.0								
200.0								
218.0	0.001	0.310	2.200					

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	53.0	41.5	4.5	13.200	2.800	0.550	1.300
5.0							
10.0	51.0	41.8	4.6	13.200	2.800	0.580	1.300
20.0							
30.0							
50.0							
75.0							
100.0							
150.0							
200.0							
218.0	50.0	40.6	2.0	13.200	2.800	0.530	1.300

DEPTH	PH 25	F	CL	HARD
1.0	7.800	0.031	1.1	44.5
5.0				
10.0	7.800	0.046	1.1	44.5
20.0				
30.0				
50.0				
75.0				
100.0				
150.0				
200.0				
218.0	7.800	0.042	1.6	44.5

C-REF-NO 301
CONS. NO 027
COUNTRY 18
INSTITUTE 22

LAT 47-40-24N
LON 086-44-18W

YEAR 1968
MONTH 08
DAY 21
TIME 1124

NO. DEPTHS 12
SOUNDING 2652
BT SLIDE NO 027

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	9.0	6	6.00	0.01	0.1	94	12.75	
5.0			5.99	0.03	0.1	96	12.86	
10.0			6.00	0.01	0.1	95	12.93	
20.0			6.03	0.04	0.1	95	12.89	
30.0			5.97	0.02	0.1	94	12.89	
50.0			4.14	0.01	0.1	95	13.24	
75.0			3.92	0.02	0.1	95	13.01	
100.0			3.86	0.00	0.1	94	13.04	
150.0			3.76	0.01	0.1	95	13.01	
200.0			3.67	0.00	0.1	96	13.04	
250.0			3.58	0.01	0.1	95	13.01	
254.0			3.56	0.00	0.1	95	13.01	

DEPTH	SR P04	TFN03	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.275	2.200	0.9				
5.0								
10.0	0.001	0.285	2.300					
20.0								
30.0								
50.0								
75.0								
100.0								
150.0								
200.0								
250.0								
254.0	0.001	0.315	2.350					

C-REF-NO 301
CONS. NO 028
COUNTRY 18
INSTITUTE 22

LAT 47-21-00N
LON 086-38-30W

YEAR 1968
MONTH 08
DAY 21
TIME 1420

NO. DEPTHS 13
SOUNDING 2709
BT SLIDE NO 028

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	9.0	6	7.04	0.00	0.1	96	12.72	
5.0			7.04	0.01	0.1	93	12.62	
10.0			7.04	0.01	0.1	91	12.75	
20.0			6.41	0.05	0.1	94	12.97	
30.0			5.09	0.01	0.1	91	13.17	
50.0			3.94	0.01	0.1	92	13.17	
75.0			3.90	0.02	0.1	90	13.18	
100.0			3.88	0.00	0.1	91	13.18	
150.0			3.82	0.00	0.1	91		
199.0			3.70	0.01	0.1	90	13.29	
249.0			3.59	0.00	0.2	90	13.17	
258.0			3.58	0.01	0.2	90	13.10	
270.0								

DEPTH	SR P04	TFN03	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.300	2.200	0.8				
5.0								
10.0	0.001	0.285	2.200					
20.0								
30.0								
50.0								
75.0								
100.0								
150.0								
199.0								
249.0								
258.0								
270.0	0.001	0.320	2.400					

C-REF-NO 301
CONS. NO 029
COUNTRY 18
INSTITUTE 22

LAT 47-01-12N	YEAR 1968
LON 086-33-30W	MONTH 08
	DAY 21
	TIME 1803

NO. DEPTHS 11
SOUNDING 2280
BT SLIDE NO 029

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T. P04
1.0	10.0	6	8.69	0.03	0.2	92	12.39	
5.0			8.64	0.02	0.1	95	12.22	
10.0			8.40	0.01	0.1	91	12.42	
20.0			6.37	0.05	0.1	93	13.03	
30.0			5.21	0.00	0.2	92	13.04	
50.0			4.20	0.00	0.2	92	13.03	
75.0			3.94	0.01	0.1	92	13.07	
100.0			3.89	0.00	0.1	96	13.07	
149.0			3.78	0.01	0.2	86	13.01	
197.0			3.69	0.01	0.2	86	13.04	
223.0			3.64	0.01	0.2	96	12.76	

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.285	2.250	0.5				
5.0								
10.0	0.001	0.295	2.150					
20.0								
30.0								
50.0								
75.0								
100.0								
149.0								
197.0								
223.0	0.001	0.305	2.050					

C-REF-NO 301
CONS. NO 030
COUNTRY 18
INSTITUTE 22

LAT 46-41-42N
LON 086-27-06W

YEAR 1968
MONTH 08
DAY 21
TIME 2048

NO. DEPTHS 10
SOUNDING 1280
BT SLIDE NO 030

DEPTH	SECCHI	F0REL	TEMP	T CLAS	TURB	CON 25	02 W	T PD4
1.0	9.0	6	14.06	0.00	0.1	95	10.50	0.006
5.0			14.05	0.01	0.1	96	11.01	
10.0			11.03	0.00	0.1	95	11.63	
20.0			7.21	0.06	0.1	96	13.01	0.005
30.0			5.35	0.01	0.1	96	13.03	
50.0			4.52	0.01	0.2	97	13.01	
75.0			4.13	0.02	0.2	97	13.01	
100.0			3.92	0.00	0.2	96	13.01	
114.0								0.008
126.0			3.91	0.02	0.1	95	13.00	

DEPTH	SR PD4	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.234	2.060	0.5	540E01		100E01	130E01
5.0								
10.0					500E00		200E00	600E00
20.0	0.001	0.266	2.160					
30.0								
50.0					000E00		200E00	400E00
75.0								
100.0								
114.0	0.001	0.276	2.240					
126.0					100E00		100E00	200E00

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	48.0	40.6	4.3	13.200	2.800	0.520	1.300
5.0							
10.0							
20.0	50.0	41.5	4.2	13.400	2.800	0.510	1.300
30.0							
50.0							
75.0							
100.0							
114.0	47.0	41.5	2.0	13.400	2.800	0.510	1.300
126.0							

DEPTH	PH 25	F	CL	HARD
1.0	7.800	0.023	1.1	44.5
5.0				
10.0				
20.0	7.800	0.061	1.1	44.9
30.0				
50.0				
75.0				
100.0				
114.0	7.800	0.031	1.5	44.9
126.0				

C-REF-NO 301
 CONS. NO 031
 COUNTRY 18
 INSTITUTE 22

LAT 46-26-18N
 LON 086-37-54W

YEAR 1968
 MONTH 08
 DAY 21
 TIME 2319

NO. DEPTHS 07
 SOUNDING 0625
 BT SLIDE NO 031

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	O2 W	T P04
1.0	6.0	8	16.90	0.01	0.1	95	9.84	
5.0			16.89	0.01	0.1	95	9.82	
10.0			15.95	0.01	0.1	95	9.90	
20.0			13.03	0.02	0.1	96	10.41	
30.0			9.19	0.02	0.1	95	10.84	
50.0			6.95	0.01	0.1	96	10.35	
60.0			6.80	0.03	0.2	95	10.25	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.232	2.000	0.6	100E00	000E00	600E00	500E00
5.0								
10.0					100E01		800E00	110E01
20.0								
30.0								
50.0	0.001	0.284	2.480					
60.0	0.002	0.288	2.760		100E00	100E00	700E00	400E00

C-REF-NO 301
 CONS. NO 032
 COUNTRY 18
 INSTITUTE 22

LAT 46-37-48N
 LON 086-55-54W

YEAR 1968
 MONTH 08
 DAY 22
 TIME 0138

NO. DEPTHS 10
 SOUNDING 1280
 BT SLIDE NO 032

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	O2 W	T P04
1.0			14.68	0.00	0.1	95	10.19	
5.0			14.68	0.01	0.1	94	10.35	
10.0			14.67	0.01	0.1	95	10.36	
20.0			10.76	0.04	0.1	95	11.54	
25.0								
30.0			5.13	0.00	0.1	97	13.09	
50.0			4.17	0.01	0.1	95	13.04	
75.0			3.95	0.00	0.1	94	13.10	
100.0			3.90	0.00	0.1	95	13.06	
126.0			3.86	0.02	0.1	95	13.01	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.264	2.080	0.5	100E00		110E01	180E01
5.0								
10.0					000E00		150E01	600E00
20.0								
25.0	0.001	0.272	2.140					
30.0								
50.0					000E00		400E00	400E00
75.0								
100.0								
126.0	0.001	0.296	2.260		000E00		200E00	100E00

C-REF-NO 301
CONS. NO 034
COUNTRY 18
INSTITUTE 22

LAT 47-16-48N
LON 087-07-36W

YEAR 1968
MONTH 08
DAY 22
TIME 0708

NO. DEPTHS 11
SOUNDING 2298
BT SLIDE NO 034

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T PD4
1.0			10.21	0.03	0.1	93	11.80	0.018
5.0			10.22	0.03	0.1	93	11.63	
10.0			10.22	0.00		95	11.77	0.044
20.0			7.39	0.03	0.1	94	12.72	
30.0			4.75	0.01	0.1	93	13.09	
50.0			4.09	0.00	0.1	94	13.14	
75.0			3.95	0.00	0.1	95	13.12	
100.0			3.89	0.00	0.1	96	12.79	
150.0			3.79	0.00	0.1	96	12.81	
200.0			3.70	0.01	0.1	95	12.87	
225.0			3.65	0.01	0.1	96	12.89	0.038

DEPTH	SR PD4	TFNO3	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.004	0.524	2.350	0.7	600E01		420E01	110E01
5.0								
10.0	0.001	0.280	2.390		500E00		100E01	100E00
20.0								
30.0								
50.0					000E00		400E00	300E00
75.0								
100.0								
150.0								
200.0								
225.0	0.001	0.300	2.550		000E00		300E00	200E00

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0		50.0	41.2	6.1	13.400	2.800	0.500 1.200
5.0							
10.0		48.0	41.5	2.0	13.100	2.700	0.500 1.300
20.0							
30.0							
50.0							
75.0							
100.0							
150.0							
200.0							
225.0		51.0	40.9	4.5	13.000	2.700	0.500 1.200

DEPTH	PH 25	F	CL	HARD
1.0	7.800	0.034	1.1	44.9
5.0				
10.0	7.900	0.030	1.5	43.8
20.0				
30.0				
50.0				
75.0				
100.0				
150.0				
200.0				
225.0	7.800	0.048	1.1	43.6

C-REF-NO 301
CONS. NO 035
COUNTRY 18
INSTITUTE 22

LAT 47-36-24N
LON 087-13-06W

YEAR 1968
MONTH 08
DAY 22
TIME 1006

NO. DEPTHS 11
SOUNDING 2377
BT SLIDE NO 035

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			8.52	0.00	0.1	97	12.38	
5.0			8.55	0.06	0.1	96	12.39	
10.0			8.52	0.01	0.1	96	12.22	
20.0			8.46	0.01	0.1	95	12.18	
30.0			6.67	0.01	0.1	97	12.56	
50.0			4.78	0.01	0.1	95	12.67	
75.0			4.27	0.00	0.1	95	12.70	
100.0			3.92	0.00	0.1	96	12.76	
150.0			3.79	0.01	0.1	96	12.58	
200.0			3.73	0.01	0.1	95	12.61	
235.0			3.67	0.01	0.2	96	12.64	

DEPTH	SR P04	TFN03	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.284	2.400	0.9				
5.0								
10.0	0.002	0.296	2.420					
20.0								
30.0								
50.0								
75.0								
100.0								
150.0								
200.0								
235.0	0.003	0.308	2.340					

C-REF-NO 301
CONS. NO 036
COUNTRY 18
INSTITUTE 22

LAT 47-56-00N
LON 087-19-36W

YEAR 1968
MONTH 08
DAY 22
TIME 1255

NO. DEPTHS 11
SOUNDING 2130
BT SLIDE NO 036

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	10.0	6	7.47	0.01	0.1	97	12.31	
5.0			7.50	0.06	0.1	96	12.31	
10.0			7.45	0.01	0.1	97	12.39	
20.0			7.35	0.03	0.1	98	12.39	
30.0			7.21	0.01	0.1	96	12.39	
50.0			4.82	0.00	0.1	98	12.72	
75.0			4.18	0.00	0.1	97	12.86	
100.0			3.92	0.01	0.1	96	12.90	
150.0			3.77	0.01	0.1	97	12.86	
200.0			3.72	0.01	0.1	97	12.90	
210.0			3.72	0.00	0.1	97	12.71	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.560	2.400	0.8	000E00		720E01	400E00
5.0								
10.0	0.001	0.335	2.400		000E00		160E01	700E00
20.0								
30.0								
50.0					000E00		200E01	100E01
75.0								
100.0								
150.0								
200.0								
210.0	0.003	0.384	2.320		000E00		500E00	300E00

C-REF-NO 301
CONS. NO 037

COUNTRY 18
INSTITUTE 22

LAT 48-15-48N
LON 087-25-30W

YEAR 1968
MONTH 08
DAY 22
TIME 1604

NO. DEPTHS 11
SOUNDING 2256
BT SLIDE NO 037

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	11.0	7	6.07	0.03	0.1	94	12.69	
5.0			6.09	0.03	0.1	94	12.79	
10.0			6.05	0.00	0.1	94	12.83	
20.0			6.01	0.00	0.1	98	12.92	
30.0			5.81	0.01	0.1	95	12.98	
50.0			4.44	0.00	0.1	93	13.10	
75.0			3.89	0.01	0.1	94	13.10	
100.0			3.87	0.01	0.1	96	13.17	
149.0			3.81	0.00	0.1	94	13.15	
197.0			3.69	0.01	0.1	96	13.14	
221.0			3.66	0.00	0.1	95	13.09	

DEPTH	SR P04	TFN03	R S102	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.356	2.520	0.7				
5.0								
10.0	0.000	0.336	2.380					
20.0								
30.0								
50.0								
75.0								
100.0								
149.0								
197.0								
221.0	0.001	0.356	2.340					

C-REF-NO 301
CONS. NO 038
COUNTRY 18
INSTITUTE 22

LAT 48-35-06N
LON 087-31-24W

YEAR 1968
MONTH 08
DAY 22
TIME 1903

NO. DEPTHS 10
SOUNDING 2048
BT SLIDE NO 038

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			7.02	0.02	0.1	98	12.62	
5.0			7.04	0.05	0.1	95	12.61	
10.0			6.77	0.01	0.1	95	12.75	
20.0			6.19	0.01	0.1	95	12.78	
30.0			5.11	0.01	0.1	95	13.43	
50.0			4.43	0.01	0.1	94	13.18	
75.0			4.08	0.00	0.1	94	13.20	
100.0			4.10	0.02	0.1	93	13.17	
149.0			3.87	0.01	0.1	94	13.21	
201.0			3.74	0.01	0.1	93	13.18	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.180	2.480	0.7	000E00		500E00	200E00
5.0								
10.0	0.001	0.230	2.240		000E00		100E01	200E00
20.0								
30.0								
50.0					100E00		210E01	630E01
75.0								
100.0								
149.0								
201.0	0.001	0.350	2.320		940E01		130E01	110E02

C-REF-NO 301
CONS. NO 039
COUNTRY 18
INSTITUTE 22

LAT 48-31-00N
LON 088-01-00W

YEAR 1968
MONTH 08
DAY 22
TIME 2140

NO. DEPTHS 09
SOUNDING 1323
BT SLIDE NO 039

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	7.5	6	8.44	0.03	0.1	97	12.11	
5.0			8.30		0.1	97	12.11	
10.0			8.10	0.01	0.1	96	12.38	
20.0			7.67	0.02	0.1	96	12.41	
30.0			4.91	0.01	0.1	97	12.95	
50.0			4.10	0.01	0.1	97	13.04	
75.0			3.92	0.00	0.2	97	13.24	
100.0			3.90	0.02	0.1	96	13.17	
130.0			3.84	0.00	0.1	97	13.15	

DEPTH	SR P04	TFNO3	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.002	0.285	2.280	0.7	300E01		160E02	230E02
5.0								
10.0	0.002	0.300	2.330		800E00		100E01	400E01
20.0								
30.0								
50.0					000E00		400E00	900E00
75.0								
100.0								
130.0	0.003	0.360	2.390		000E00		400E00	600E00

C-REF-NO 301
CONS. NO 040
COUNTRY 18
INSTITUTE 22

LAT 48-11-18N
LON 087-54-30W

YEAR 1968
MONTH 08
DAY 23
TIME 0040

NO. DEPTHS 11
SOUNDING 2371
BT SLIDE NO 040

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	O2 W	T P04
1.0	10.0	6	6.26	0.02	0.1	93	12.78	0.011
5.0			6.24	0.01	0.1	93	12.92	
10.0			5.99	0.00	0.1	94	12.97	
20.0			5.93	0.02	0.1	93	12.95	
30.0			5.72	0.01	0.1	92	12.97	
50.0			4.41	0.01	0.1	94	13.12	0.008
75.0			3.91	0.01	0.1	94	13.18	
100.0			3.85	0.02	0.1	93	13.27	
149.0			3.77	0.01	0.1	91	13.26	
198.0			3.68	0.00	0.1	92	13.26	
232.0			3.64	0.00	0.1	93	13.23	0.040

DEPTH	SR P04	TFN03	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.002	0.390	2.470	0.8				
5.0								
10.0								
20.0								
30.0								
50.0	0.001	0.360	2.420					
75.0								
100.0								
149.0								
198.0								
232.0	0.002	0.335	2.520					

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	62.0	41.2	2.0	13.000	2.700	0.510	1.300
5.0							
10.0							
20.0							
30.0							
50.0	67.0	41.5	2.0	13.000	2.700	0.520	1.200
75.0							
100.0							
149.0							
198.0							
232.0	59.0	41.8	2.0	13.000	2.700	0.520	1.300

DEPTH	PH 25	F	CL	HARD
1.0	7.800	0.044	1.5	43.6
5.0				
10.0				
20.0				
30.0				
50.0	7.800	0.032	1.9	43.6
75.0				
100.0				
149.0				
198.0				
232.0	7.800	0.034	1.1	43.6

C-REF-NO 301
CONS. NO 041
COUNTRY 18
INSTITUTE 22

LAT 47-51-48N
LON 087-48-30W

YEAR 1968
MONTH 08
DAY 23
TIME 0416

NO. DEPTHS 12
SOUNDING 2819
BT SLIDE NO 041

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			7.42	0.02	0.1	95	12.69	
5.0			7.23	0.01	0.1	94	12.69	
10.0			6.90	0.01	0.1	94	12.72	
20.0			6.52	0.01	0.1	94	12.81	
30.0			5.86	0.01	0.1	94	13.00	
50.0			4.71	0.02	0.1	94	13.09	
75.0			4.27	0.00	0.1	94	13.12	
100.0			3.97	0.00	0.1	95	13.12	
149.0			3.88	0.00	0.1	93	13.12	
198.0			3.77	0.01	0.1	95	13.15	
247.0			3.67	0.01	0.1	96	13.14	
267.0			3.67	0.00	0.2	93	13.10	

DEPTH	SR P04	TFN03	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.003	0.335	2.580	0.7				
5.0								
10.0	0.001	0.350	2.450					
20.0								
30.0								
50.0								
75.0								
100.0								
149.0								
198.0								
247.0								
267.0	0.002	0.390	2.420					

C-REF-NO 301
 CONS. NO 042
 COUNTRY 18
 INSTITUTE 22

LAT 47-32-06N
 LON 087-42-18W

YEAR 1968
 MONTH 08
 DAY 23
 TIME 0656

NO. DEPTHS 10
 SOUNDING 1600
 BT SLIDE NO 042

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			13.80	0.00	0.1	92	10.25	
5.0			13.80	0.00	0.1	92	10.27	
10.0			13.20	0.02	0.1	94	10.50	
20.0			10.39	0.01	0.1	92	11.83	
30.0			8.51	0.01	0.1	93	12.18	
50.0			5.67	0.02	0.1	95	12.69	
75.0			4.55	0.00	0.1	93	12.90	
100.0			4.00	0.02	0.1	94	13.10	
149.0			3.78	0.00	0.1	95	13.07	
154.0			3.79	0.01	0.1	93	13.00	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.002	0.305	2.200	0.5				
5.0								
10.0	0.001	0.380	2.270					
20.0								
30.0								
50.0								
75.0								
100.0								
149.0	0.001	0.435	2.340					
154.0								

C-REF-NO 301
 CONS. NO 043
 COUNTRY 18
 INSTITUTE 22

LAT 47-12-42N
 LON 087-36-12W

YEAR 1968
 MONTH 08
 DAY 23
 TIME 0924

NO. DEPTHS 09
 SOUNDING 1189
 BT SLIDE NO 043

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			14.97	0.01	0.1	94	10.15	
5.0			14.97	0.01	0.1	93	10.29	
10.0			14.34	0.01	0.1	96	10.42	
20.0			11.22	0.01	0.1	93	11.35	
30.0			8.50	0.01	0.1	94	11.99	
50.0			5.74	0.00	0.2	95	12.61	
75.0			4.43	0.00	0.1	95	12.87	
100.0			4.05	0.02	0.1	95	12.87	
117.0			4.04	0.00	0.2	94	13.17	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.300	2.040	0.8				
5.0								
10.0								
20.0								
30.0	0.000	0.385	2.220					
50.0								
75.0								
100.0								
117.0	0.001	0.410	2.350					

C-REF-NO 301
CONS. NO 044
COUNTRY 18
INSTITUTE 22

LAT 46-53-00N YEAR 1968
 LON 087-30-12W MONTH 08
 DAY 23
 TIME 1136

NO. DEPTHS 08
 SOUNDING 0899
 BT SLIDE NO 044

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	10.0	5	14.70	0.03	0.1	94	10.38	
5.0			14.58	0.00	0.1	94	10.53	
10.0			13.86	0.01	0.1	93	10.16	
20.0			10.87	0.02	0.1	93	11.69	
30.0			7.09	0.01	0.1	96	12.62	
50.0			4.92	0.01	0.2	94	12.86	
75.0			4.14	0.00	0.6	93	13.01	
88.0			4.14	0.02	2.0	94	13.09	

DEPTH	SR P04	TFNO3	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.255	2.140	0.5				
5.0								
10.0								
20.0								
30.0	0.001	0.340	2.190					
50.0								
75.0								
88.0	0.001	0.440	2.380					

C-REF-NO 301
 CONS. NO 045
 COUNTRY 18
 INSTITUTE 22

LAT 46-33-48N
 LON 087-22-18W

YEAR 1968
 MONTH 08
 DAY 23
 TIME 1409

NO. DEPTHS 04
 SOUNDING 0152
 BT SLIDE NO 045

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	6.5	11	16.36	0.00	0.1	94	10.04	0.040
5.0			14.63	0.01	0.1	96	10.42	
10.0			12.45	0.02	0.1	96	11.00	
13.0			11.52	0.03	0.2	95	11.18	0.008

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.003	0.215	2.260	0.3	170E01	300E00	840E01	480E02
5.0					000E00		900E00	240E01
10.0					100E00	100E00	130E01	130E01
13.0	0.001	0.410	2.160					

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	62.0	40.6	2.0	12.800	2.600	0.520	1.300
5.0							
10.0							
13.0	57.0	41.5	4.7	13.000	2.600	0.570	1.400

DEPTH	PH 25	F	CL	HARD
1.0	7.800	0.034	1.5	42.7
5.0				
10.0				
13.0	7.800	0.042	1.1	43.2

C-REF-NO 301
 CONS. NO 046
 COUNTRY 18
 INSTITUTE 22

LAT 46-51-06N
 LON 087-43-30W

YEAR 1968
 MONTH 08
 DAY 23
 TIME 1703

NO. DEPTHS 05
 SOUNDING 0274
 BT SLIDE NO 046

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	8.0	7	15.40	0.01	0.2	96	10.33	
5.0			15.01	0.03	0.1	95	10.44	
10.0			11.11	0.02	0.1	96	11.45	
20.0			9.40	0.02	0.1	95	11.79	
25.0			9.32	0.04	0.1	95	11.77	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.285	2.020	0.4	000E00	000E00	160E01	110E01
5.0								
10.0	0.001	0.370	2.130					
20.0								
25.0	0.002	0.375	2.220		000E00	000E00	500E01	900E00

C-REF-NO 301
 CONS. NO 047
 COUNTRY 18
 INSTITUTE 22

LAT 46-56-00N
 LON 087-53-18W

YEAR 1968
 MONTH 08
 DAY 23
 TIME 1811

NO. DEPTHS 04
 SOUNDING 0204
 BT SLIDE NO 047

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	8.0	7	14.08	0.00	0.1	96	10.67	
5.0			13.98	0.00	0.1	96	10.69	
10.0			13.76	0.01	0.1	97	10.70	
18.0			10.99	0.01	0.1	96	11.37	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.225	2.170	0.3	300E00	000E00	100E01	200E00
5.0								
10.0	0.001	0.220	2.140		100E00		100E01	130E01
18.0	0.001	0.245	2.160		200E00	000E00	900E00	180E01

C-REF-NO 301
 CONS. NO 048
 COUNTRY 18
 INSTITUTE 22

LAT 46-55-18N
 LON 088-23-00W

YEAR 1968
 MONTH 08
 DAY 23
 TIME 2028

NO. DEPTHS 04
 SOUNDING 0204
 BT SLIDE NO 048

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	9.0	6	14.53	0.02	0.1	97	10.39	0.040
5.0			14.48	0.01	0.1	96	10.39	
10.0			14.11	0.01	0.1	95	10.61	0.018
18.0			13.11	0.01	0.1	95	10.72	0.018

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.002	0.255	2.190	0.3	000E00	000E00	150E01	110E01
5.0								
10.0	0.001	0.250	2.140		000E00		250E01	100E01
18.0	0.001	0.265	2.200		100E01	000E00	120E02	170E02

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	55.0	40.9	4.0	13.000	2.600	0.500	1.200
5.0							
10.0	58.0	41.2	2.0	13.000	2.600	0.500	1.200
18.0	57.0	40.9	2.0	13.100	2.600	0.510	1.200

DEPTH	PH 25	F	CL	HARD
1.0	7.800	0.038	1.1	43.2
5.0				
10.0	7.800	0.038	1.1	43.2
18.0	7.800	0.028	1.5	43.4

C-REF-NO 301
CONS. NO 049
COUNTRY 18
INSTITUTE 22

LAT 47-08-18N
LON 088-04-54W

YEAR 1968
MONTH 08
DAY 23
TIME 2238

NO. DEPTHS 08
SOUNDING 0701
BT SLIDE NO 049

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	9.0	5	14.12	0.02	0.1	95	10.63	
5.0			14.13	0.01	0.1	95	10.33	
10.0			13.91	0.01	0.1	94	10.33	
20.0			12.92	0.04	0.1	96	10.36	
30.0			9.31	0.01	0.1	97	11.79	
40.0								
50.0			7.23	0.01	0.2	95	12.11	
68.0			4.97	0.00	0.3	96	12.09	

DEPTH	SR P04	TFN03	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.250	2.200	0.4	100E00	000E00	200E00	500E00
5.0								
10.0					100E00		700E00	200E00
20.0								
30.0								
40.0	0.001	0.275	2.315					
50.0					000E00		400E00	110E01
68.0	0.001	0.310	2.260		000E00	000E00	400E00	110E01

C-REF-NO 301
CONS. NO 050

COUNTRY 18
INSTITUTE 22

LAT 47-28-00N
LON 088-11-12W

YEAR 1968
MONTH 08
DAY 24
TIME 0325

NO. DEPTHS 08
SOUNDING 0610
BT SLIDE NO 050

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			9.69	0.02	0.1	94	12.00	0.006
5.0			9.72	0.02	0.1	94	12.08	
10.0			9.60	0.01	0.1	94	12.16	
15.0								0.028
20.0			5.75	0.02	0.1	95	12.61	
30.0			5.09	0.01	0.2	95	12.69	
50.0			4.46	0.01	0.1	95	12.73	
59.0			4.30	0.00	0.1	95	12.84	0.005

DEPTH	SR P04	TFNO3	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.003	0.295	2.220	0.8	100E00	000E00	100E01	800E00
5.0								
10.0					000E00		100E00	600E00
15.0	0.002	0.335	2.180					
20.0								
30.0								
50.0					000E00		700E00	700E00
59.0	0.002	0.400	2.410		000E00	000E00	100E00	100E00

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	52.0	41.5	4.3	13.100	2.600	0.500	1.200
5.0							
10.0							
15.0	48.0	41.2	3.8	13.100	2.600	0.500	1.200
20.0							
30.0							
50.0							
59.0	49.0	41.2	4.3	13.100	2.700	0.500	1.200

DEPTH	PH 25	F	CL	HARD
1.0	7.900	0.032	1.0	43.4
5.0				
10.0				
15.0	7.700	0.028	1.0	43.4
20.0				
30.0				
50.0				
59.0	7.600	0.030	1.0	43.8

C-REF-NO 301
CONS. NO 051

COUNTRY 18
INSTITUTE 22

LAT 47-47-18N
LON 088-17-24W

YEAR 1968
MONTH 08
DAY 24
TIME 0549

NO. DEPTHS 11
SOUNDING 2240
BT SLIDE NO 051

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			8.97	0.00	0.1	94	12.16	
5.0			8.97	0.02	0.1	94	12.16	
10.0			8.96	0.04	0.1	94	12.16	
20.0			7.98	0.04	0.1	94	12.38	
30.0			5.45	0.09	0.1	92	13.09	
50.0			4.24	0.01	0.1	97	13.21	
75.0			3.94	0.02	0.1	96	13.21	
100.0			3.84	0.00	0.1	95	13.24	
149.0			3.76	0.01	0.1	93	13.26	
198.0			3.70	0.00	0.1	94	13.26	
218.0			3.69	0.01	0.1	95	13.27	

DEPTH	SR P04	TFN03	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.225	2.160	0.9	000E00		140E01	200E00
5.0								
10.0					000E00		180E01	400E00
20.0								
30.0	0.001	0.245	2.060					
50.0					000E00		300E00	700E00
75.0								
100.0								
149.0								
198.0								
218.0	0.001	0.275	2.240		000E00		100E00	100E01

C-REF-NO 301
 CONS. NO 052
 COUNTRY 18
 INSTITUTE 22

LAT 48-07-00N
 LON 088-23-42W

YEAR 1968
 MONTH 08
 DAY 24
 TIME 0836

NO. DEPTHS 09
 SOUNDING 1158
 BT SLIDE NO 052

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			10.82	0.00	0.1	94	11.25	
5.0			10.75	0.00	0.1	94	11.29	
10.0			10.67	0.04	0.1	94	11.34	
20.0			8.81	0.01	0.1	93	11.77	
30.0			6.83	0.01	0.1	95	12.30	
50.0			4.66	0.00	0.1	95	12.89	
75.0			4.07	0.02	0.1	92	13.03	
100.0			3.92	0.00	0.1	93	13.04	
112.0			3.93	0.01	0.1	93	13.34	

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.235	2.140	0.7				
5.0								
10.0								
20.0	0.001	0.245	2.160					
30.0								
50.0								
75.0								
100.0								
112.0	0.001	0.285	2.220					

C-REF-NO 301
 CONS. NO 053
 COUNTRY 18
 INSTITUTE 22

LAT 48-24-42N
 LON 088-30-30W

YEAR 1968
 MONTH 08
 DAY 24
 TIME 1106

NO. DEPTHS 05
 SOUNDING 0259
 BT SLIDE NO 053

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	7.0	6	8.18	0.02	0.1	100	12.07	
5.0			7.99	0.01	0.1	96	12.10	
10.0			7.78	0.00	0.1	97	12.38	
20.0			7.40	0.01	0.1	97	12.39	
24.0			7.08	0.00	0.1	96	12.44	

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.260	2.040	0.7	370E01		330E01	280E01
5.0								
10.0	0.001	0.235	2.120					
20.0								
24.0	0.001	0.240	2.160		800E00	000E00	460E01	930E01

C-REF-NO 301
 CONS. NO 054
 COUNTRY 18
 INSTITUTE 22

LAT 48-02-54N
 LON 088-52-42W

YEAR 1968
 MONTH 08
 DAY 24
 TIME 1351

NO. DEPTHS 07
 SOUNDING 0701
 BT SLIDE NO 054

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	7.0	9	9.65	0.01	0.1	95	11.96	
5.0			9.40	0.02	0.1	95	12.00	
10.0			8.63	0.01	0.1	93	12.13	
20.0			6.70	0.00	0.1	95	12.70	
30.0			6.14	0.01	0.1	94	12.78	
50.0			5.10	0.00	0.1	95	12.98	
68.0			4.66	0.02	0.1	96	13.06	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.240	2.140	0.8				
5.0								
10.0								
20.0	0.001	0.250	2.100					
30.0								
50.0								
68.0	0.001	0.275	2.280					

C-REF-NO 301
 CONS. NO 055
 COUNTRY 18
 INSTITUTE 22

LAT 48-22-00N
 LON 088-59-48W

YEAR 1968
 MONTH 08
 DAY 24
 TIME 1617

NO. DEPTHS 07
 SOUNDING 0530
 BT SLIDE NO 055

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	5.0	10	12.69	0.01	0.1	96	10.78	
5.0			12.35	0.03	0.1	95	10.84	
10.0			11.89	0.01	0.1	96	10.84	
20.0			6.20	0.06	0.1	93	12.14	
25.0								
30.0			5.20	0.00	0.1	95	12.38	
50.0			4.68	0.02	0.1	94	12.59	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.220	2.300	0.7	400E00	000E00	170E01	490E01
5.0								
10.0					300E00		300E01	120E02
20.0								
25.0	0.001	0.270	2.450					
30.0								
50.0	0.001	0.280	2.600		000E00	000E00	100E00	500E00

C-REF-NO 301
CONS. NO 056
COUNTRY 18
INSTITUTE 22

LAT 48-25-48N
 LON 089-08-48W
 YEAR 1968
 MONTH 08
 DAY 24
 TIME 1727

NO. DEPTHS 04
 SOUNDING 0226
 BT SLIDE NO 056

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	5.0	10	13.60	0.01	0.1	94	10.66	0.011
5.0			13.60	0.05	0.1	94	10.67	
10.0			13.27	0.03	0.1	94	10.69	0.014
20.0			10.41	0.02	0.1	95	10.87	0.012

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.002	0.220	2.250	0.8	000E00	000E00	110E01	140E01
5.0								
10.0	0.001	0.225	2.200		000E00		500E00	600E00
20.0	0.001	0.265	2.400		200E00	000E00	240E01	250E01

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	49.0	41.2	4.7	13.100	2.700	0.550	1.500
5.0							
10.0	46.0	40.9	4.1	13.100	2.700	0.580	1.500
20.0	46.0	40.6	4.2	13.100	2.700	0.650	1.800

DEPTH	PH 25	F	CL	HARD
1.0	7.500	0.026	1.3	43.8
5.0				
10.0	7.700	0.033	1.4	43.8
20.0	7.500	0.036	1.5	43.8

C-REF-NO 301
CONS. NO 057
COUNTRY 18
INSTITUTE 22

LAT 48-10-06N
LON 089-10-48W

YEAR 1968
MONTH 08
DAY 24
TIME 1944

NO. DEPTHS 07
SOUNDING 0945
BT SLIDE NO 057

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	4.0	11	11.78	0.01	0.1	98	10.66	0.014
5.0			11.84	0.04	0.1	96	10.70	
10.0			11.63	0.02	0.1	95	10.84	
20.0			9.32	0.02	0.1	96	11.69	
30.0			6.56	0.01	0.2	95	12.33	0.021
50.0			5.26	0.00	0.1	94	12.72	
90.0			4.76	0.03	3.2	95	12.78	0.026

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.002	0.230	2.500	0.8	200E00	100E00	540E02	110E03
5.0								
10.0					270E01		460E02	100E03
20.0								
30.0	0.001	0.245	2.600					
50.0					000E00		250E01	420E01
90.0	0.002	0.230	2.650		100E00	000E00	150E01	300E01

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	46.0	41.8	2.0	13.100	2.700	0.520	1.400
5.0							
10.0							
20.0							
30.0	45.0	40.9	5.5	13.100	2.700	0.570	1.500
50.0							
90.0	57.0	41.8	3.8	13.100	2.700	0.550	1.400

DEPTH	PH 25	F	CL	HARD
1.0	7.600	0.032	1.5	43.8
5.0				
10.0				
20.0				
30.0	7.600	0.041	1.4	43.8
50.0				
90.0	7.700	0.038	1.2	43.8

C-REF-NO 301
CONS. NO 058

COUNTRY 18
INSTITUTE 22

LAT 47-58-00N
LON 089-22-30W

YEAR 1968
MONTH 08
DAY 24
TIME 2212

NO. DEPTHS 12
SOUNDING 2271
BT SLIDE NO 058

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T PD4
1.0	6.0	6	10.80	0.02	0.1	97	11.65	
5.0			10.80	0.03	0.1	98	11.65	
10.0			10.70	0.01	0.1	98	11.66	
20.0			7.95	0.01	0.1	95	11.96	
30.0			4.98	0.00	0.3	98	12.87	
50.0			4.12	0.01	0.4	95	13.04	
75.0			3.96	0.00	0.2	98	13.17	
100.0			3.92	0.02	0.2	98	13.15	
150.0			3.82	0.01	0.2	97	13.15	
200.0			3.72	0.00	0.5	96	13.12	
209.0								
223.0			3.71	0.00	0.2	95	13.03	

DEPTH	SR PD4	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.130	2.600	0.8	000E00		480E01	140E02
5.0								
10.0					100E00		800E00	200E00
20.0	0.001	0.140	2.650					
30.0								
50.0					000E00		180E02	450E02
75.0								
100.0								
150.0								
200.0								
209.0	0.002	0.160	2.850					
223.0					000E00		500E00	600E00

C-REF-NO 301
CDNS. NO 059
COUNTRY 18
INSTITUTE 22

LAT 47-38-18N
LON 089-15-18W

YEAR 1968
MONTH 08
DAY 25
TIME 0050

NO. DEPTHS 12
SOUNDING 1829
BT SLIDE NO 059

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	7.0	6	10.51	0.02	0.1	92	11.69	
5.0			10.51	0.02	0.1	93	11.77	
10.0			10.50	0.04	0.1	93	11.79	
20.0			10.24	0.00	0.1	92	11.90	
25.0								
30.0			4.65	0.02	0.1	92	13.51	
50.0			4.13	0.00	0.1	93	13.15	
75.0			3.99	0.00	0.1	94	13.15	
100.0			3.91	0.01	0.1	92	13.20	
149.0			3.78	0.00	0.1	91	13.20	
176.0								
180.0			3.73	0.00	0.2	93	13.17	

DEPTH	SR P04	TFN03	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.135	2.240	0.7	130E01		700E00	290E01
5.0								
10.0					130E01		900E00	600E00
20.0								
25.0	0.001	0.160	2.240					
30.0								
50.0					000E00		100E00	900E00
75.0								
100.0								
149.0								
176.0	0.001	0.195	2.540					
180.0					100E00		200E00	600E00

C-REF-NO 301
CONS. NO 060

COUNTRY 18
INSTITUTE 22

LAT 47-43-06N
LON 088-46-30W

YEAR 1968
MONTH 08
DAY 25
TIME 0345

NO. DEPTHS 12
SOUNDING 2438
BT SLIDE NO 060

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			10.52	0.04	0.1	93	11.76	
5.0			10.48	0.02	0.1	93	11.73	
10.0			10.49	0.01	0.1	94	11.74	
20.0			9.98	0.03	0.1	93	11.88	
30.0			4.63	0.02	0.1	94	13.40	
50.0			4.06	0.00	0.1	95	13.18	
75.0			3.90	0.01	0.1	94	13.23	
97.0			3.89	0.01	0.1	95	13.23	
145.0			3.80	0.02	0.1	95	13.24	
196.0			3.68	0.00	0.3	94	13.09	
236.0			3.74	0.00	0.1	93	13.21	
240.0								

DEPTH	SR P04	TFN03	R SI02	CHLORA	MF COL	MF FCD	SPC 20	SPC 35
1.0	0.001	0.185	2.340	0.7				
5.0								
10.0								
20.0								
30.0	0.001	0.190	2.380					
50.0								
75.0								
97.0								
145.0								
196.0								
236.0								
240.0	0.001	0.225	2.620					

C-REF-NO 301
 CONS. NO 061
 COUNTRY 18
 INSTITUTE 22

LAT 47-23-36N
 LON 088-39-54W

YEAR 1968
 MONTH 08
 DAY 25
 TIME 0637

NO. DEPTHS 10
 SOUNDING 1749
 BT SLIDE NO 061

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			12.90	0.01	0.1	95	10.86	
5.0			12.90	0.03	0.1	95	10.97	
10.0			12.81	0.00	0.1	94	11.08	
20.0			8.51	0.02	0.1	94	12.70	
30.0			5.93	0.01	0.1	95	13.34	
50.0			4.82	0.02	0.1	93	13.00	
75.0			4.13	0.01	0.1	95	13.03	
100.0			3.91	0.01	0.1	95	13.04	
149.0			4.20	0.02	0.1	94	13.01	
169.0			3.89	0.02	0.3	94	13.03	

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.200	2.400	0.6				
5.0								
10.0								
20.0	0.012	0.180	2.420					
30.0								
50.0								
75.0								
100.0								
149.0								
169.0	0.001	0.235	2.660					

C-REF-NO 301
 CONS. NO 062
 COUNTRY 18
 INSTITUTE 22

LAT 47-14-54N
 LON 088-37-06W

YEAR 1968
 MONTH 08
 DAY 25
 TIME 0818

NO. DEPTHS 04
 SOUNDING 0219
 BT SLIDE NO 062

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			15.34	0.02	0.2	95	9.93	
5.0			15.35	0.02	0.2	93	10.07	
10.0			15.36	0.01	0.2	94	10.05	
17.0			15.31	0.02	0.2	93	10.08	

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.200	2.300	0.5	000E00	000E00	700E00	700E00
5.0								
10.0	0.001	0.220	2.340					
17.0	0.001	0.220	2.380		000E00	000E00	100E01	400E00

C-REF-NO 301
 CONS. NO 063
 COUNTRY 18
 INSTITUTE 22

LAT 47-18-48N
 LON 089-08-54W

YEAR 1968
 MONTH 08
 DAY 25
 TIME 1105

NO. DEPTHS 10
 SOUNDING 1646
 BT SLIDE NO 063

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	9.0	5	12.31	0.01	0.1	96	11.00	
5.0			12.32	0.06	0.1	94	11.09	
10.0			12.31	0.00	0.1	93	11.17	
20.0			8.59	0.00	0.1	94	12.58	
30.0			5.15	0.01	0.2	95	13.20	
49.0			4.04	0.01	0.1	95	12.93	
74.0			3.91	0.02	0.1	94	13.01	
100.0			3.85	0.00	0.2	96	13.06	
150.0			3.77	0.00	0.1	94	12.98	
160.0			3.77	0.00	0.1	94	13.04	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.225	2.600	0.7				
5.0								
10.0								
20.0	0.001	0.235	2.660					
30.0								
49.0								
74.0								
100.0								
150.0								
160.0	0.001	0.275	2.900					

C-REF-NO 301
 CONS. NO 064
 COUNTRY 18
 INSTITUTE 22

LAT 47-01-12N
 LON 089-02-54W

YEAR 1968
 MONTH 08
 DAY 25
 TIME 1320

NO. DEPTHS 04
 SOUNDING 0183
 BT SLIDE NO 064

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	7.0	7	16.45	0.01	0.1	93	9.73	
5.0			16.45	0.02	0.1	95	9.85	
10.0			16.45	0.00	0.1	94	9.87	
15.0					0.1	95	9.85	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.215	2.420	0.5	270E01	200E00	800E00	900E00
5.0								
10.0								
15.0	0.002	0.220	2.420		600E00	000E00	900E00	

C-REF-NO 301
CONS. NO 065
COUNTRY 18
INSTITUTE 22

LAT 46-54-54N
LON 089-30-36W

YEAR 1968
MONTH 08
DAY 25
TIME 1547

NO. DEPTHS 07
SOUNDING 0701
BT SLIDE NO 065

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	5.0	6	14.21	0.00	0.1	94	10.63	
5.0			14.20	0.02	0.1	94	10.64	
10.0			14.17	0.04	0.1	95	10.64	
20.0			13.46	0.01	0.1	94	10.89	
30.0			7.30	0.01	0.1	96	12.39	
50.0			4.77	0.00	0.1	94	12.69	
68.0			4.64	0.00	0.2	95	12.69	

DEPTH	SR P04	TFN03	R SID2	CHLORA	MF COL	MF FCD	SPC 20	SPC 35
1.0	0.001	0.205	2.580	0.5	520E01	400E00	600E00	120E01
5.0								
10.0					300E00		400E00	600E00
20.0								
30.0	0.001	0.225	2.620					
50.0					100E00		400E00	160E01
68.0	0.001	0.290	2.880		000E00	000E00	700E00	100E01

C-REF-NO 301
 CONS. NO 066
 COUNTRY 18
 INSTITUTE 22

LAT 47-14-24N
 LON 089-37-06W

YEAR 1968
 MONTH 08
 DAY 25
 TIME 1813

NO. DEPTHS 10
 SOUNDING 1981
 BT SLIDE NO 066

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T PD4
1.0	10.0	7	11.86	0.01	0.1	98	11.25	0.005
5.0			11.74	0.01	0.1	97	11.28	
10.0			11.54	0.02	0.1	95	11.42	
20.0			9.59	0.00	0.1	95	12.11	
30.0			5.20	0.01	0.1	95	13.18	0.005
50.0			4.51	0.04	0.1	96	13.01	
75.0			4.01	0.02	0.1	95	13.04	
100.0			3.89	0.00	0.1	94	13.03	
149.0			3.76	0.00	0.1	96	13.10	
193.0			3.72	0.01	0.2	97	13.07	0.006

DEPTH	SR PD4	TFNO3	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.140	2.300	0.5				
5.0								
10.0								
20.0								
30.0	0.001	0.135	2.320					
50.0								
75.0								
100.0								
149.0								
193.0	0.001	0.185	2.460					

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	46.0	41.5	2.0	13.000	2.700	0.550	1.400
5.0							
10.0							
20.0							
30.0	46.0	41.8	1.9	13.200	2.700	0.670	1.500
50.0							
75.0							
100.0							
149.0							
193.0	52.0	41.2	4.2	13.200	2.700	0.530	1.300

DEPTH	PH 25	F	CL	HARD
1.0	7.900	0.021	1.5	43.6
5.0				
10.0				
20.0				
30.0	7.800	0.027	1.5	44.1
50.0				
75.0				
100.0				
149.0				
193.0	7.700	0.030	1.2	44.1

C-REF-NO 301
CONS. NO 067
COUNTRY 18
INSTITUTE 22

LAT 47-33-54N
LON 089-43-48W

YEAR 1968
MONTH 08
DAY 25
TIME 2056

NO. DEPTHS 10
SOUNDING 1691
BT SLIDE NO 067

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	9.0	6	10.48	0.01	0.1	94	11.49	
5.0			10.18	0.01	0.1	94	12.00	
10.0			9.74	0.02	0.1	95	11.99	
20.0			5.04	0.01	0.1	95	13.46	
30.0			4.15	0.00	0.1	95	13.10	
50.0			4.00	0.00	0.2	95	13.09	
75.0			3.93	0.01	0.2	96	13.24	
100.0			3.81	0.01	0.2	95	13.27	
150.0			3.76	0.04	0.1	96	13.07	
165.0			3.72	0.02	0.2	96	13.07	

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.165	2.280	0.4				
5.0								
10.0								
20.0	0.001	0.180	2.240					
30.0								
50.0								
75.0								
100.0								
150.0								
165.0	0.001	0.190	2.240					

C-REF-NO 301
CONS. NO 068
COUNTRY 18
INSTITUTE 22

LAT 47-52-00N
LON 089-50-42W

YEAR 1968
MONTH 08
DAY 25
TIME 2317

NO. DEPTHS 08
SOUNDING 0640
BT SLIDE NO 068

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	7.5	7	9.45	0.01	0.1	98	11.69	0.012
5.0			9.47	0.01	0.1	96	11.90	
10.0			9.29	0.00	0.1	95	12.08	
20.0			8.27	0.01	0.1	94	12.18	
23.0								0.012
30.0			7.89	0.01	0.2	95	12.31	
50.0			6.26	0.01	0.1	96	12.67	
60.0			5.56	0.00	0.1	96	12.78	0.009

DEPTH	SR P04	TFN03	R SID2	CHLORA	MF COL	MF FCD	SPC 20	SPC 35
1.0	0.001	0.165	2.300	0.9	100E00	000E00	800E00	350E01
5.0								
10.0					000E00		270E01	770E01
20.0								
23.0	0.001	0.160	2.300					
30.0								
50.0								
60.0	0.001	0.165	2.320		000E00	000E00	630E01	990E01

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	52.0	41.8	4.6	13.200	2.700	0.530	1.300
5.0							
10.0							
20.0							
23.0	47.0	40.9	3.6	13.200	2.700	0.520	1.300
30.0							
50.0							
60.0	54.0	41.5	5.5	13.200	2.700	0.520	1.300

DEPTH	PH 25	F	CL	HARD
1.0	7.700	0.022	1.2	44.1
5.0				
10.0				
20.0				
23.0	7.700	0.025	1.2	44.1
30.0				
50.0				
60.0	7.700	0.030	1.2	44.1

C-REF-NO 301
CONS. NO 069
COUNTRY 18
INSTITUTE 22

LAT 47-43-36N
LON 090-18-12W

YEAR 1968
MONTH 08
DAY 26
TIME 0137

NO. DEPTHS 10
SOUNDING 1341
BT SLIDE NO 069

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			9.80	0.00	0.1	95	11.93	
5.0			9.79	0.01	0.1	96	12.00	
10.0			9.49	0.01	0.1	97	12.11	
20.0			8.22	0.01	0.1	96	12.39	
25.0								
30.0			7.37	0.01	0.1	96	12.66	
50.0			5.40	0.00	0.1	94	13.09	
75.0			4.34	0.01	0.1	96	12.72	
100.0			3.88	0.04	0.1	95	13.18	
132.0			3.81	0.00	0.1	95	13.20	

DEPTH	SR P04	TFN03	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.150	2.160	0.9	200E00	000E00	120E01	220E01
5.0								
10.0					000E00		700E00	100E01
20.0								
25.0	0.001	0.145	2.060					
30.0								
50.0					000E00		700E00	130E01
75.0								
100.0								
132.0	0.001	0.175	2.240		000E00	000E00	100E00	230E01

C-REF-NO 301
CONS. NO 070
COUNTRY 18
INSTITUTE 22

LAT 47-29-12N
LON 090-12-36W

YEAR 1968
MONTH 08
DAY 26
TIME 0349

NO. DEPTHS 10
SOUNDING 1390
BT SLIDE NO 070

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			10.94	0.04	0.1	96	11.54	
5.0			10.58	0.02	0.1	97	11.85	
10.0			10.40	0.03	0.1	96	11.91	
20.0			7.16	0.02	0.1	97	12.70	
30.0			5.45	0.01	0.1	98	12.90	
50.0			4.17	0.01	0.1	98	13.04	
75.0			3.95	0.02	0.1	97	13.12	
100.0			3.89	0.03	0.1	96	13.12	
134.0			3.88	0.00	0.1	97	13.10	
138.0								

DEPTH	SR P04	TFN03	R S102	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.150	2.380	0.7				
5.0								
10.0								
20.0	0.001	0.150	2.320					
30.0								
50.0								
75.0								
100.0								
134.0								
138.0	0.001	0.165	2.440					

C-REF-NO 301
CONS. NO 071
COUNTRY 18
INSTITUTE 22

LAT 47-09-48N
LON 090-06-00W

YEAR 1968
MONTH 08
DAY 26
TIME 0617

NO. DEPTHS 09
SOUNDING 1402
BT SLIDE NO 071

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			11.31	0.01	0.1	93	11.42	
5.0			11.30	0.01	0.1	92	11.49	
10.0			11.26	0.03	0.1	93	11.56	
20.0			5.91	0.04	0.1	94	13.04	
30.0			4.14	0.01	0.1	95	13.09	
50.0			3.89	0.00	0.1	95	13.10	
75.0			3.86	0.00	0.1	95	13.06	
100.0			3.83	0.02	0.1	95	13.09	
136.0			3.84	0.01	0.1	94	13.04	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.144	2.300	0.6	000E00		200E00	600E00
5.0					000E00		500E00	300E00
10.0								
20.0	0.001	0.148	2.200					
30.0								
50.0					000E00		200E00	600E00
75.0								
100.0								
136.0	0.001	0.190	2.380		000E00		500E00	200E00

C-REF-NO 301
 CONS. NO 072
 COUNTRY 18
 INSTITUTE 22

LAT 46-50-18N
 LON 089-59-00W

YEAR 1968
 MONTH 08
 DAY 26
 TIME 0838

NO. DEPTHS 10
 SOUNDING 1494
 BT SLIDE NO 072

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			15.55	0.01	0.1	95	10.21	
5.0			15.55	0.02	0.1	96	10.22	
10.0			15.51	0.02	0.1	96	10.24	
16.0								
20.0			6.04	0.00	0.1	95	13.29	
30.0			4.32	0.00	0.1	95	13.04	
50.0			4.00	0.00	0.1	96	13.04	
75.0			3.91	0.00	0.1	96	13.06	
100.0			3.85	0.03	0.1	95	13.04	
146.0			3.78	0.01	0.2	96	12.89	

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.162	2.020	0.5	000E00	000E00	100E00	800E00
5.0					100E00		800E00	100E01
10.0								
16.0	0.001	0.180	2.200					
20.0								
30.0								
50.0					000E00		400E00	400E00
75.0								
100.0								
146.0	0.001	0.180	2.520		000E00	000E00	200E00	300E00

C-REF-NO 301
 CONS. NO 073
 COUNTRY 18
 INSTITUTE 22

LAT 46-35-48N
 LON 090-23-48W

YEAR 1968
 MONTH 08
 DAY 26
 TIME 1101

NO. DEPTHS 04
 SOUNDING 0229
 BT SLIDE NO 073

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			16.22	0.00	0.2	95	9.45	
5.0			16.23	0.02	0.2	95	9.76	
10.0			16.21	0.01	0.2	96	9.84	
20.0			11.71	0.00	0.4	95	10.46	

DEPTH	SR P04	TFN03	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.162	2.020	0.9	180E01	000E00	120E01	700E00
5.0								
10.0	0.001	0.167	2.010		100E01		900E00	130E01
20.0	0.001	0.194	2.010		290E01	000E00	900E00	700E00

C-REF-NO 301
 CONS. NO 074
 COUNTRY 18
 INSTITUTE 22

LAT 46-45-24N
 LON 090-27-24W

YEAR 1968
 MONTH 08
 DAY 26
 TIME 1220

NO. DEPTHS 07
 SOUNDING 0488
 BT SLIDE NO 074

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	7.0	6	14.86	0.01	0.1	95	10.25	0.005
5.0			14.86	0.00	0.1	96	10.35	
10.0			14.86	0.02	0.1	96	10.35	
20.0			9.89	0.00	0.1	96	11.52	
25.0								0.005
30.0			5.84	0.01	0.2	97	12.55	
46.0			4.74	0.00	0.2	96	12.78	0.013

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.162	1.960	0.6	100E00		300E00	500E00
5.0								
10.0					000E00		100E00	500E00
20.0								
25.0	0.001	0.171	2.120					
30.0								
46.0	0.001	0.162	2.010		700E00		400E00	500E00

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	51.0	41.5	2.0	13.200	2.700	0.520	1.300
5.0							
10.0							
20.0							
25.0	57.0	41.2	4.3	13.200	2.700	0.530	1.300
30.0							
46.0	54.0	40.9	4.6	13.200	2.700	0.530	1.300

DEPTH	PH 25	F	CL	HARD
1.0	7.800	0.025	1.5	44.1
5.0				
10.0				
20.0				
25.0	7.600	0.024	1.2	44.1
30.0				
46.0	7.700	0.024	1.2	44.1

C-REF-NO 301
CONS. NO 075
COUNTRY 18
INSTITUTE 22

LAT 47-04-54N
LON 090-34-30W

YEAR 1968
MONTH 08
DAY 26
TIME 1518

NO. DEPTHS 04
SOUNDING 0183
BT SLIDE NO 075

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	8.0	9	13.51	0.01	0.1	96	10.58	0.007
5.0			13.50	0.04	0.1	97	10.60	
10.0			13.43	0.04	0.1	96	10.61	
16.0			5.97	0.01	0.2	97	12.07	0.005

DEPTH	SR P04	TFNO3	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.162	1.800	0.6				
5.0								
10.0								
16.0	0.002	0.170	2.100					

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	57.0	41.5	3.9	13.000	2.700	0.530	1.300
5.0							
10.0							
16.0	56.0	40.9	4.7	13.200	2.700	0.550	1.300

DEPTH	PH 25	F	CL	HARD
1.0	7.800	0.035	1.2	43.6
5.0				
10.0				
16.0	7.600	0.032	1.2	44.1

C-REF-NO 301
 CONS. NO 076
 COUNTRY 18
 INSTITUTE 22

LAT 47-24-06N
 LON 090-41-36W

YEAR 1968
 MONTH 08
 DAY 26
 TIME 1738

NO. DEPTHS 10
 SOUNDING 1749
 BT SLIDE NO 076

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	9.0	6	12.41	0.03	0.1	97	11.09	0.012
5.0			12.39	0.01	0.1	97	11.15	
10.0			12.28	0.04	0.1	96	11.15	
20.0			10.33	0.00	0.1	95	11.85	
30.0			4.96	0.01	0.1	95	13.32	0.004
50.0			4.09	0.00	0.1	94	13.18	
75.0			3.89	0.01	0.1	94	13.24	
100.0			3.85	0.02	0.1	94	13.23	
150.0			3.77	0.01	0.1	96	13.17	
172.0			3.64	0.01	0.2	95	13.01	0.018

DEPTH	SR P04	TFN03	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.202	2.160	0.7				
5.0								
10.0								
20.0								
30.0	0.001	0.230	2.380					
50.0								
75.0								
100.0								
150.0								
172.0	0.001	0.260	2.460					

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	56.0	41.5	2.0	13.000	2.700	0.530	1.300
5.0							
10.0							
20.0							
30.0	77.0	41.8	3.2	13.200	2.700	0.520	1.300
50.0							
75.0							
100.0							
150.0							
172.0	53.0	41.2	2.1	13.200	2.700	0.530	1.300

DEPTH	PH 25	F	CL	HARD
1.0	7.800	0.030	1.2	43.6
5.0				
10.0				
20.0				
30.0	7.800	0.028	1.2	44.1
50.0				
75.0				
100.0				
150.0				
172.0	7.700	0.032	1.5	44.1

C-REF-NO 301
 CONS. NO 077
 COUNTRY 18
 INSTITUTE 22

LAT 47-36-00N
 LON 090-45-42W

YEAR 1968
 MONTH 08
 DAY 26
 TIME 1914

NO. DEPTHS 08
 SOUNDING 0701
 BT SLIDE NO 077

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	8.0	8	10.74	0.02	0.1	94	11.74	0.004
5.0			10.52	0.01	0.1	93	11.76	
10.0			10.12	0.03	0.1	95	11.85	
20.0			9.61	0.00	0.1	83	12.05	
30.0			8.43	0.01	0.1	84	12.31	0.006
50.0					0.1	84	12.78	
64.0								0.005
68.0			5.36	0.08	0.2	81	12.79	

DEPTH	SR P04	TFNO3	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.220	2.200	0.6	000E00	000E00	200E00	100E00
5.0								
10.0					000E00		900E00	300E00
20.0								
30.0	0.001	0.220	2.240					
50.0								
64.0	0.001	0.250	2.280					
68.0					100E00	000E00	100E00	100E00

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	54.0	41.2	5.5	13.200	2.600	0.520	1.200
5.0							
10.0							
20.0							
30.0	46.0	41.2	3.8	13.100	2.700	0.520	1.200
50.0							
64.0	40.0	41.5	6.7	13.100	2.700	0.580	1.300
68.0							

DEPTH	PH 25	F	CL	HARD
1.0	7.900	0.034	1.5	43.7
5.0				
10.0				
20.0				
30.0	7.900	0.026	1.2	43.8
50.0				
64.0	7.900	0.030	1.5	43.8
68.0				

C-REF-NO 301
CONS. NO 078
COUNTRY 18
INSTITUTE 22

LAT 47-19-12N
LON 091-10-12W

YEAR 1968
MONTH 08
DAY 26
TIME 2149

NO. DEPTHS 11
SOUNDING 2088
BT SLIDE NO 078

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	9.0	5	10.69	0.01	0.1	95	11.56	
5.0			10.07	0.00	0.1	92	11.87	
10.0			9.88	0.02	0.1	95	11.97	
20.0			9.58	0.00	0.1	94	12.18	
30.0			7.25	0.00	0.1	96	12.76	
50.0			4.39	0.01	0.1	98	13.24	
75.0			3.94	0.01	0.1	97	13.35	
100.0			3.88	0.01	0.1	99	13.07	
150.0			3.80	0.00	0.2	93	13.00	
200.0			3.69	0.01	0.1	96	13.20	
205.0			3.67	0.00	0.2	98	13.18	

DEPTH	SR P04	TFNO3	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.230	2.200	0.5	190E01		100E00	500E00
5.0								
10.0					000E00		500E00	160E01
20.0								
30.0	0.001	0.230	2.220					
50.0					000E00		400E00	600E00
75.0								
100.0								
150.0								
200.0								
205.0	0.001	0.254	2.320		000E00	000E00	300E00	800E00

C-REF-NO 301
 CONS. NO 079
 COUNTRY 18
 INSTITUTE 22

LAT 46-59-54N
 LON 091-02-54W

YEAR 1968
 MONTH 08
 DAY 27
 TIME 0017

NO. DEPTHS 08
 SOUNDING 0732
 BT SLIDE NO 079

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0	4.0	8	12.31	0.00	0.1	96	10.66	
5.0			12.31	0.01	0.1	98	11.21	
10.0			9.18	0.01	0.6	100	12.05	
15.0								
20.0			6.12	0.00	0.6	97	12.31	
30.0			4.73	0.01	0.1	97	12.78	
50.0			4.39	0.00	0.6	99	12.62	
71.0			4.18	0.01	0.9	97	12.42	

DEPTH	SR P04	TFNO3	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.230	2.200	0.5	000E00	000E00	140E01	220E01
5.0								
10.0					100E00		100E01	160E01
15.0	0.001	0.260	2.280					
20.0								
30.0								
50.0					100E00		120E01	190E01
71.0	0.001	0.268	2.400		000E00	000E00	100E01	500E00

C-REF-NO 301
 CONS. NO 080
 COUNTRY 18
 INSTITUTE 22

LAT 46-47-00N
 LON 091-28-06W

YEAR 1968
 MONTH 08
 DAY 27
 TIME 0238

NO. DEPTHS 03
 SOUNDING 0122
 BT SLIDE NO 080

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			11.90	0.03	0.5	96	11.12	
5.0			11.94	0.02	0.6	96	11.08	
10.0			11.63	0.01	0.6	96	11.09	

DEPTH	SR P04	TFNO3	R SI02	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.230	2.200	0.9	210E01	100E00	800E00	120E01
5.0								
10.0	0.001	0.230	2.180		200E00	100E00	120E01	700E00

C-REF-NO 301
 CONS. NO 081
 COUNTRY 18
 INSTITUTE 22

LAT 46-55-06N
 LON 091-31-18W

YEAR 1968
 MONTH 08
 DAY 27
 TIME 0354

NO. DEPTHS 09
 SOUNDING 1250
 BT SLIDE NO 081

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T PD4
1.0			11.30	0.01	0.3	98	11.21	
5.0			11.29	0.01	0.3	97	11.26	
10.0			11.01	0.03	0.3	97	11.39	
20.0			7.60	0.01	0.1	97	12.21	
30.0			5.33	0.01	0.1	97	12.76	
50.0			4.03	0.00	0.1	96	13.10	
75.0			3.83	0.01	0.1	95	13.15	
100.0			3.82	0.00	0.1	95	13.15	
123.0			3.80	0.01	0.1	96	13.09	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.240	2.180	0.9	000E00	000E00	500E00	800E00
5.0								
10.0					000E00		600E00	180E01
20.0	0.001	0.230	2.180					
30.0								
50.0					000E00		600E00	130E01
75.0								
100.0								
123.0	0.001	0.250	2.320		000E00	000E00	400E00	160E01

C-REF-NO 301
 CONS. NO 082
 COUNTRY 18
 INSTITUTE 22

LAT 47-03-54N
 LON 091-34-30W

YEAR 1968
 MONTH 08
 DAY 27
 TIME 0512

NO. DEPTHS 08
 SOUNDING 0701
 BT SLIDE NO 082

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T PD4
1.0			10.70	0.00	0.1	96	11.77	
5.0			10.69	0.00	0.1	98	11.74	
10.0			10.31	0.01	0.1	97	11.77	
20.0			10.04	0.00	0.1	97	11.77	
30.0			9.32	0.00	0.3	97	11.93	
35.0								
50.0			5.11	0.01	0.1	97	12.92	
67.0			4.40	0.01	0.2	97	13.00	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.240	2.220	1.0	200E00	000E00	600E00	160E01
5.0								
10.0					500E00		600E00	130E01
20.0								
30.0								
35.0	0.001	0.230	2.140					
50.0								
67.0	0.001	0.250	2.240		000E00	000E00	500E00	100E00

C-REF-NO 301
 CONS. NO 083
 COUNTRY 18
 INSTITUTE 22

LAT 46-49-42N
 LON 091-59-30W

YEAR 1968
 MONTH 08
 DAY 27
 TIME 0736

NO. DEPTHS 06
 SOUNDING 0351
 BT SLIDE NO 083

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			13.50	0.02	3.0	100	9.96	0.033
5.0			13.51	0.02	3.0	100	10.13	
10.0			13.36	0.06	2.0	97	10.15	0.030
20.0			12.79	0.02	0.5	99	10.46	
30.0			9.56	0.01	0.2	97	11.52	
33.0			8.23	0.01	0.2	97	11.99	0.010

DEPTH	SR P04	TFN03	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.008	0.226	2.180	0.8	200E01	200E00	100E02	100E03
5.0								
10.0	0.003	0.236	2.140		800E00		160E02	700E02
20.0								
30.0								
33.0	0.001	0.220	2.140		200E00	200E00	310E01	680E01

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	51.0	42.1	5.8	13.400	2.900	0.570	1.600
5.0							
10.0	48.0	42.6	4.1	13.400	2.800	0.570	1.600
20.0							
30.0							
33.0	44.0	41.2	6.2	13.200	2.700	0.580	1.400

DEPTH	PH 25	F	CL	HARD
1.0	7.800	0.035	1.6	45.4
5.0				
10.0	7.700	0.028	1.5	44.9
20.0				
30.0				
33.0	7.800	0.026	1.5	44.1

C-REF-NO 301
CONS. NO 084
COUNTRY 18
INSTITUTE 22

LAT 46-42-06N
LON 091-56-24W

YEAR 1968
MONTH 08
DAY 27
TIME 0841

NO. DEPTHS 04
SOUNDING 0158
BT SLIDE NO 084

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T PD4
1.0			13.95	0.01	20.0	102	9.81	
5.0			13.93	0.01	20.0	103	10.04	
10.0			13.90	0.04	18.0	100	10.08	
14.0			12.82	0.02	1.0	97	10.42	

DEPTH	SR PD4	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.008	0.240	2.140	0.8	120E02	200E00	330E01	450E01
5.0								
10.0	0.002	0.240	2.160		200E01		230E01	880E01
14.0	0.002	0.218	2.080		600E00	000E00	240E01	430E01

C-REF-NO 301
CONS. NO 085
COUNTRY 18
INSTITUTE 22

LAT 48-49-48N
LON 087-36-00W

YEAR 1968
MONTH 08
DAY 28
TIME 0445

NO. DEPTHS 07
SOUNDING 0573
BT SLIDE NO 085

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	02 W	T P04
1.0			10.58	0.02	0.1	99	11.28	0.012
5.0			10.46	0.00	0.1	100	11.66	
10.0			9.43	0.01	0.1	99	11.77	
20.0			9.12	0.01	0.1	99	11.82	
30.0			8.19	0.00	0.1	99	12.08	0.008
50.0			5.51	0.01	0.1	99	12.66	
55.0			5.18	0.00	0.1	99	12.67	0.018

DEPTH	SR P04	TFND3	R SID2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.188	2.230	0.7	000E00	000E00	200E00	700E00
5.0								
10.0					100E00		900E00	500E00
20.0								
30.0	0.001	0.188	2.250					
50.0								
55.0	0.002	0.208	2.350		100E00	000E00	500E00	100E01

DEPTH	F RES	TT ALK	S SO4	CA NFA	MG NF	K NFS	NA NFS
1.0	42.0	41.8	6.7	13.200	2.700	0.540	1.300
5.0							
10.0							
20.0							
30.0	43.0	42.1	4.8	13.400	2.700	0.550	1.300
50.0							
55.0	42.0	42.3	3.8	13.200	2.700	0.540	1.300

DEPTH	PH 25	F	CL	HARD
1.0	7.800	0.023	1.5	44.1
5.0				
10.0				
20.0				
30.0	7.900	0.027	1.2	44.6
50.0				
55.0	7.800	0.018	1.2	44.1

C-REF-NO 301
CDNS. NO 086

COUNTRY 18
INSTITUTE 22

LAT 48-52-30N
LON 087-52-30W

YEAR 1968
MONTH 08
DAY 28
TIME 0614

NO. DEPTHS 06
SOUNDING 0530
BT SLIDE NO 086

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	CON 25	O2 W	T P04
1.0			12.02	0.02	0.4	107	11.08	
5.0			11.85	0.02	0.5	108	11.18	
10.0			10.98	0.02	0.2	104	11.34	
20.0			7.28	0.01	0.4	102	11.93	
30.0			5.90	0.01	0.2	101	12.61	
50.0			5.21	0.01	0.3	100	12.53	

DEPTH	SR P04	TFNO3	R SIO2	CHLORA	MF COL	MF FCO	SPC 20	SPC 35
1.0	0.001	0.160	2.440	0.7	100E00	000E00	900E00	400E00
5.0					100E00		100E01	500E00
10.0								
20.0								
30.0	0.001	0.212	2.330					
50.0	0.001	0.168	2.410		000E00	000E00	400E00	400E00