



LIMNOLOGICAL DATA REPORT NO.1

LAKE HURON

CRUISE 69 - 202, September 22 - 29

CRUISE 69 - 203, November 18 - December 6

LAKE SUPERIOR

CRUISE 69 - 302, November 12 - 25

1969

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

Programmed by

DEPARTMENT OF ENERGY, MINES & RESOURCES

FISHERIES RESEARCH BOARD

and

DEPARTMENT OF NATIONAL HEALTH & WELFARE

at

CANADA CENTRE FOR INLAND WATERS

BURLINGTON, ONTARIO

CANADA

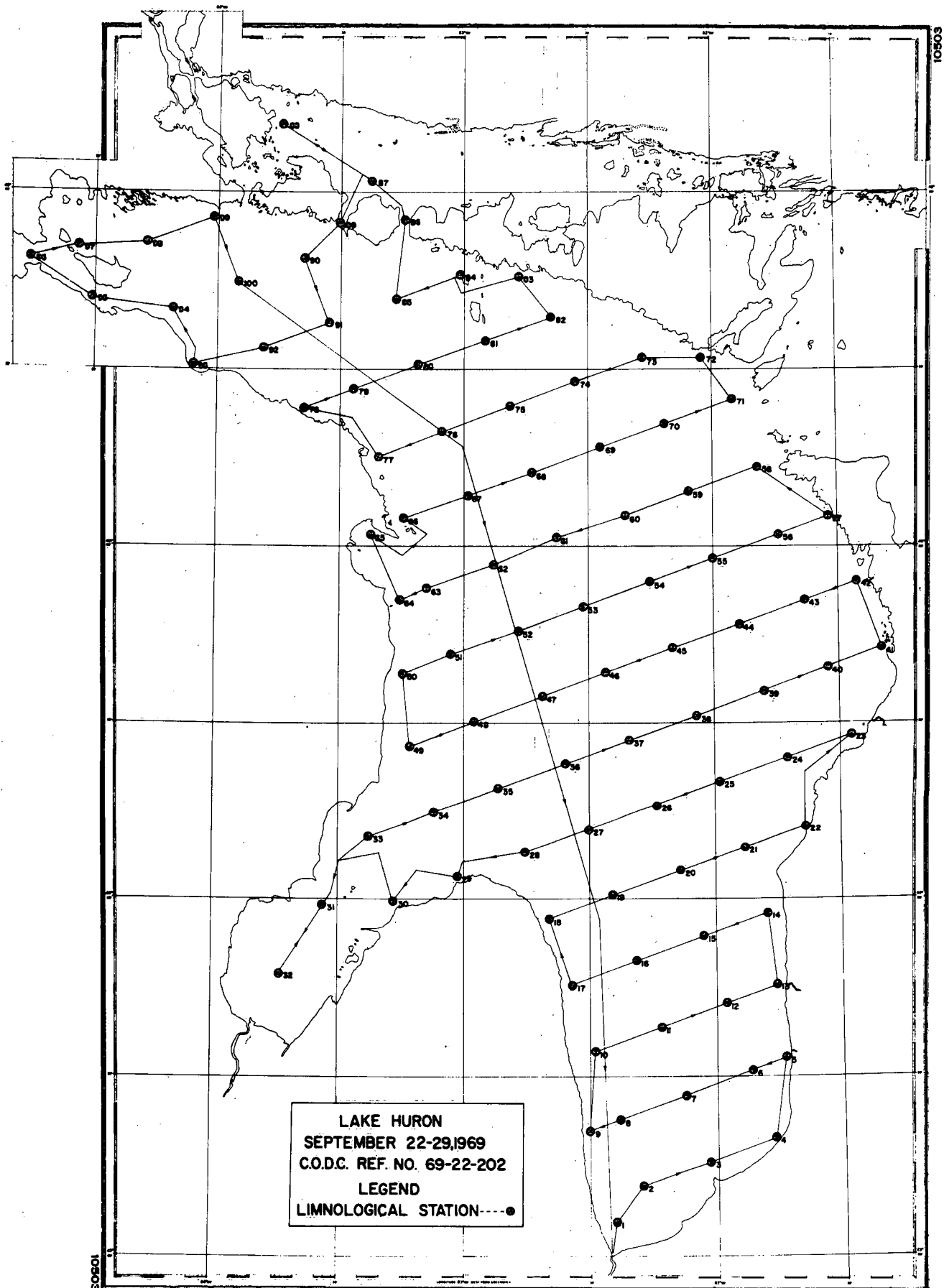
INTRODUCTION

This report contains 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 1969. Two surveys of Lake Huron were conducted, in September and November, while one monitoring survey of Lake Superior was conducted from November 12 to November 25, 1969.

Surveys were carried out by (1) the Great Lakes and Water Quality Divisions of the 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 from the Canada Centre for Inland Waters at Burlington, Ontario, aboard the Canadian Scientific Ship "Limnos" and the chartered ship "M.V. Martin Karlsen". The Department of Energy, Mines and Resources co-ordinated the programs and provided support facilities to the participating agencies and to University scientists in collaboration with the Centre's agencies. Ship and launch operations were the responsibility of the Marine Sciences Branch, Department of Energy, Mines and Resources.

Although surveys related to geological and purely physical studies of the lakes were also undertaken, only the water quality data gathered on three monitoring cruises are included in these reports. Supplementary bathythermograph and meteorological data are available on request from Canada Centre for Inland Waters, P.O. Box 5050, Burlington, Ontario. The accompanying cruise track charts show the geographic locations of the observations listed in this data record.

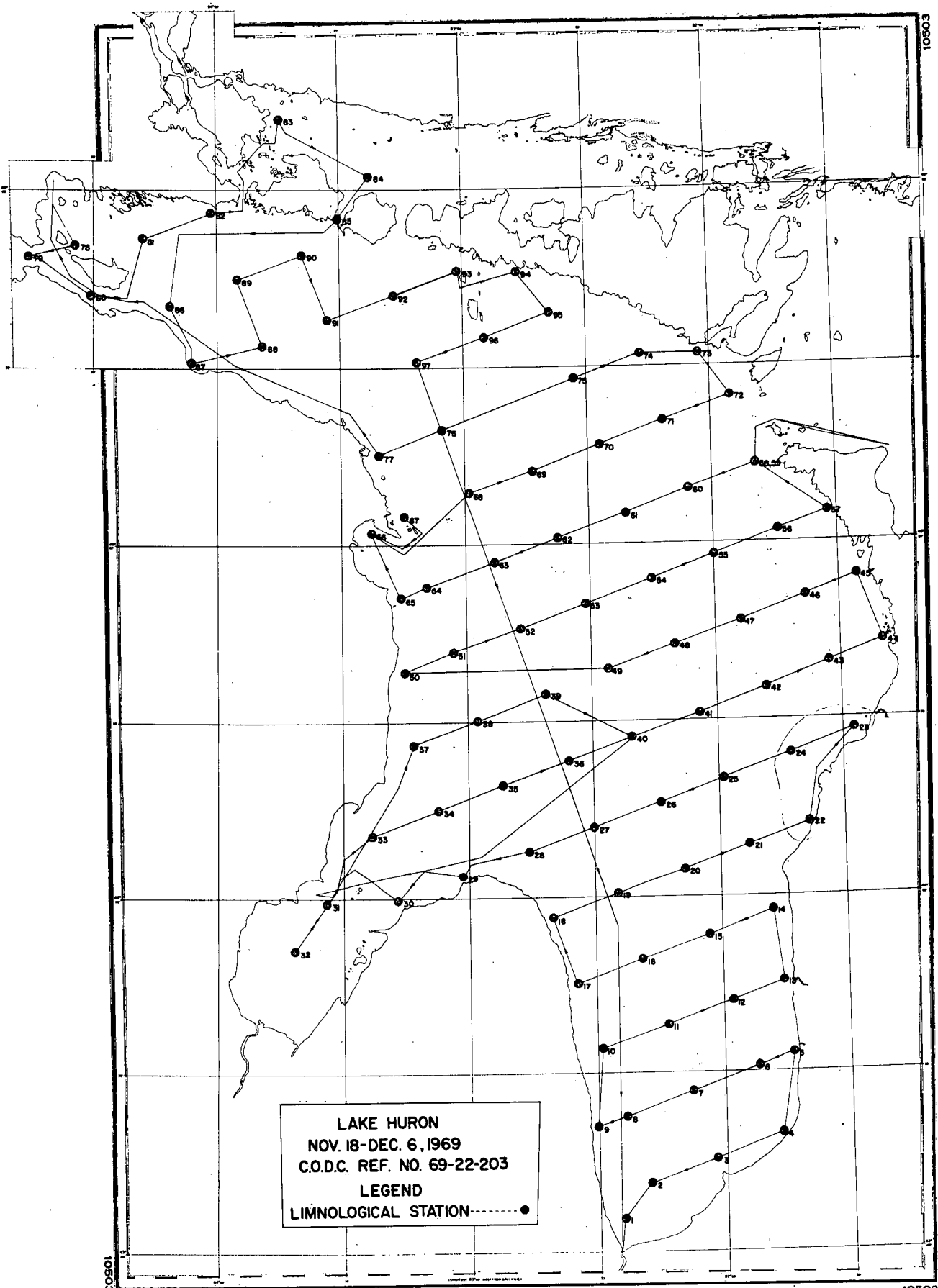
During the time covered by this report the Canada Centre for Inland Waters was part of the Department of Energy, Mines and Resources (Minister, the Honourable J.J. Greene). On April 1, 1971 the Centre, along with other elements of the Department of Energy, Mines and Resources, was transferred to the new Department of the Environment, the Honourable Jack Davis, Minister.



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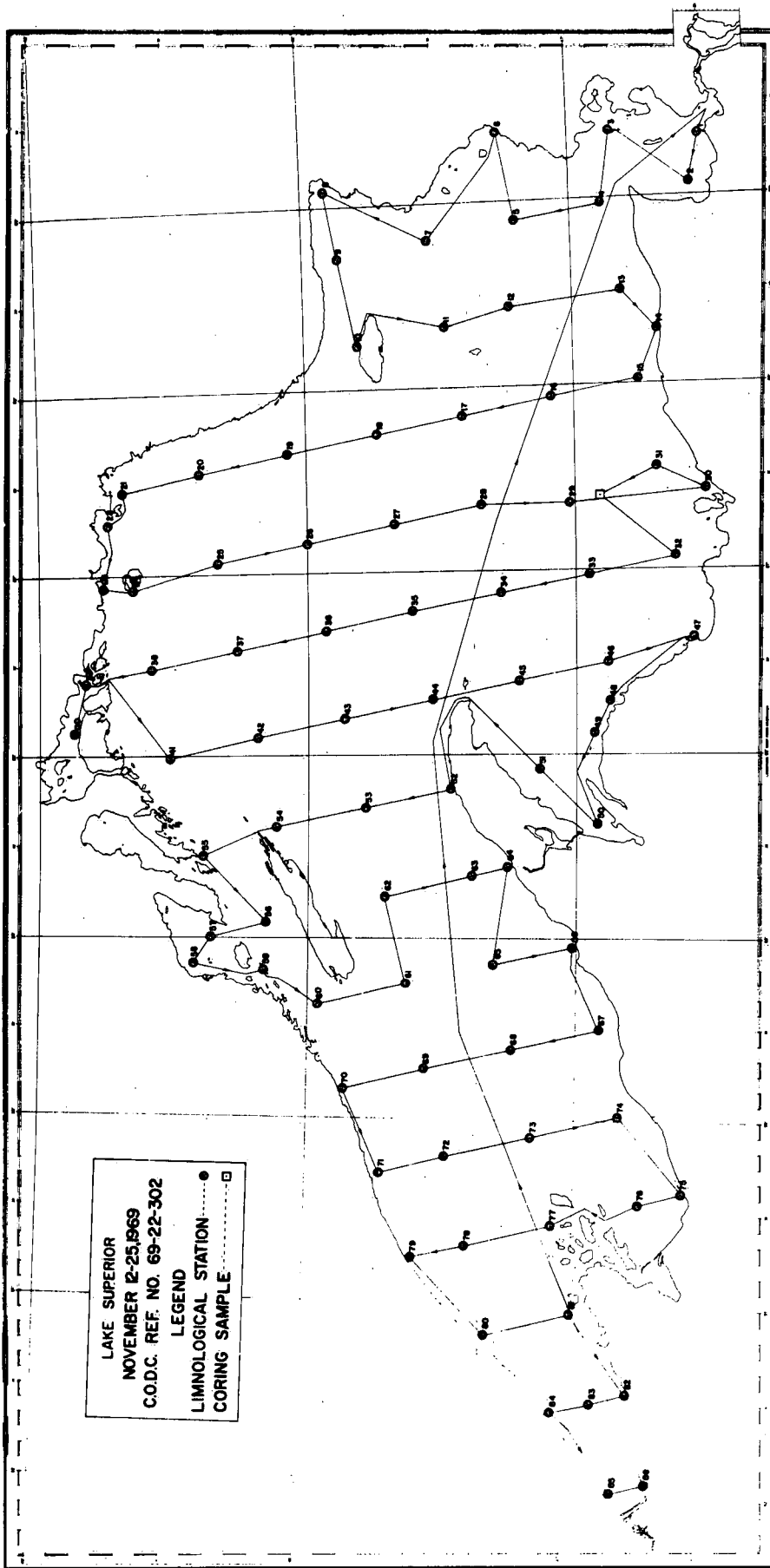
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SUMMARY OF THE CRUISES AND DATA LISTED IN THE 1969 DATA REPORT
FOR LAKE HURON AND LAKE SUPERIOR

Data Report No.	1		
Cruise No.	202	203	302
Dates (1969)	Sept. 22 Sept. 29	Nov. 18 Dec. 6	Nov. 12 Nov. 25
Cruise Type	Monitor	Monitor	Monitor
Vessel	Karlsen	Limnos	Karlsen
No. of Stations	100	97	86
No. of BT Slides	147	97	86

Station Data:

Date/Time	X	X	X
Sounding	X	X	X
BT Slide No.	X	X	X
Sample Depth	X	X	X
Secchi	X	X	X
Colour Forel-ule	X	X	X
Temperature	X	X	X
Temperature Classification	X	X	X
Turbidity	X	X	X
Specific Conductance	X	X	X
Oxygen Dissolved (Winkler)	X	X	X
Alkalinity, Total (colorimetric)		X	X
Phosphate, Total	X		
Orthophosphate, Soluble Reactive	X		
Ammonia Nitrogen, Soluble F	X		
Nitrate, Nitrite Nitrogen F	X		
Sulphate NF		X	X
Chloride NF		X	X
Silica, Reactive	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
Bicarbonate		X	X
Chlorophyll A		X	X
MF Coliforms	X		
MF Fecal Coliforms	X		
Standard Plate Count at 20°C	X		
Standard Plate Count at 35°C	X		

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. 69-001, is the first cruise on Lake Ontario
69-102, is the second cruise on Lake Erie
69-203, is the third cruise on Lake Huron
69-304, 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	3	109
Turbidity	TURB	Turbidity Units	1	123
Specific Conductance	SP CON	Micromhos 25°C		160
Alkalinity, total (colorimetric)	TC ALK	mg CaCO ₃ /L	1	220
Bicarbonate	HCO ₃	mg HCO ₃ /L	1	232
Oxygen, dissolved (Winkler)	O ₂ W	mg O ₂ /L	2	245
Phosphate, total	T PO ₄	mg PO ₄ /L	3	260
Orthophosphate, soluble reactive	SR PO ₄	mg PO ₄ /L	3	263
Ammonia nitrogen, soluble	NH ₃	mg N/L	3	270
Nitrate nitrite nitrogen F	TF NO ₃	mg N/L	3	276
Sulphate NF	S SO ₄	mg SO ₄ /L	1	280
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 plant 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:

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

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

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

$$101E00 = <1$$

$$102E00 = >1$$

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. 6, 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 Two 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. A single mean corrected temperature value is reported in this final data record, along with a temperature classification (T CLAS) denoting the averaged difference between the two sets of thermometer readings. 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. 5).

Specific conductance 25°C - Ohmometric, Radiometer Conductivity Meter Type CDM2 (REFS. 1, 12).

NF - Non filtered.

Alkalinity, total (Colorimetric) - Autoanalyzer, buffered, methyl orange indicator (REFS. 15, 16).

Bicarbonate - Nomographic computation from Alkalinity values.

Dissolved Oxygen - Measured using the Winkler iodometric method. Azide was not used (REF. 7, pp. 67-78).

Phosphate, total, NF - Photometric, autoanalyzer, modification (W.Q.D.D.) of Gales & Julian, 1966 (REF. 16).

Phosphate, soluble reactive, F - Photometric, autoanalyzer, modification (W.Q.D.D.) of stannous chloride method described in Standard Methods APHA 1965 (REF. 16).

Ammonia Nitrogen soluble F - Photometric, autoanalyzer, as described by Zitomer and Lambert, 1962, and automated by Sawyer & Grisley, 1967, as adopted by W.Q.D.D. (REF. 16).

Nitrate Nitrite Nitrogen F - Autoanalyzer, colorimetric cadmium reduction (REFS. 2, 3).

Sulphate NF - Photometric, autoanalyzer, method of Lazrus et al (1965) as modified by W.Q.D.D. (REF. 16).

Chloride, NF - Autoanalyzer, colorimetric, mercury thiocyanate (REF. 8).

Silica, reactive - Autoanalyzer, colorimetric, heteropoly blue (REFS. 1, 14).

Hardness, total - Computed from calcium and magnesium determinations (REF. 1).

Calcium NF - Atomic absorption spectrophotometry (REF. 11).

Magnesium NF - Atomic absorption spectrophotometry (REF. 11).

Potassium NF - Autoanalyzer, flame emission photometry (REF. 13).

Sodium NF - Autoanalyzer, flame emission photometry (REF. 13).

Chlorophyll A - *in vivo* chlorophyll concentrations (REFS, 9, 10).

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.

Coliform density determinations were obtained by membrane filtration techniques using Bacto-m-Endo MF Agar. 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).

F - Filtered
NF - Non filtered

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. 4).

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.

PROGRAM CO-ORDINATION

Physical Limnology	Dr. R.K. Lane (G.L.D.) Mr. D.G. Robertson (G.L.D.)
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Limnogeology	Dr. P.G. Sly (G.L.D.)
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Bacteriology	Mr. B.J. Dutka (P.H.E.D.) Mr. H.R. van Otterloo (P.H.E.D.)
Chlorophyll & Plankton	Dr. R.A. Vollenweider (F.R.B.)
Operations	Mr. H.B. Macdonald (G.L.D.)
Ship Support	Mr. A. Quirk (M.S.B.)
Engineering Support	Mr. G.A. Jones (G.L.D.)
Computer and Data Services	Mr. D.M. Francis (G.L.D.) Mr. W. Nagel (G.L.D.)

- (G.L.D.) Great Lakes Division, Department of Energy, Mines and Resources.
(W.Q.D.) Water Quality Division, Department of Energy, Mines and Resources.
(P.H.E.D.) Public Health Engineering Division, Department of National Health and Welfare.
(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 the final data reports in the present series.

The Meteorological Branch of the Department of Transport provided instruments, and calibration facilities for meteorological programs conducted at the Centre.

Marine Sciences Branch personnel under Captain D. Butler and Captain T. Mangan operated the Canadian Scientific Ship "Limnos" while Captain H. Brandal and crew operated the chartered ship "M.V. Martin Karlsen" in support of the Centre's limnological programs.

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CRUISE 69 - 202, September 22 - 29

C-REF-NO 202
 CONS. NO 001
 COUNTRY 18
 INSTITUTE 22

LAT 43-05-24N
 LON 082-24-18W

YEAR 1969
 MONTH 09
 DAY 23
 TIME 0553

NO. DEPTHS 04
 SOUNDING 0120
 BT SLIDE NO 001

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			18.70					
1.0			18.69	0.006	0.4	209	9.16	
5.0			18.70	0.004	0.3	208	9.13	
10.0			18.66	0.007	0.4	209	9.05	

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0	C.009	0.125	0.281	0.812	600E00	101E00	300E00	170E01
5.0	C.006	0.068	0.237	0.700				
10.0	0.003	0.032	0.175	0.700	400E00	101E00	100E00	500E00

C-REF-NO 202
 CONS. NO 002
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 23
 TIME 0702

NO. DEPTHS 05
 SOUNDING 0240
 BT SLIDE NO 002

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			18.80					
1.0			18.77	0.002	0.3	208	8.96	0.017
10.0			18.77	0.004	0.4	208	9.10	0.018
15.0								
22.0			18.65	0.001	0.4	207	9.08	0.014

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0	0.002	0.030	0.175	0.704	101E00	101E00	800E00	300E00
10.0	0.002	0.030	0.170	0.720	101E00	101E00	200E00	101E00
15.0					101E00	101E00	400E00	200E00
22.0	0.003	0.042	0.175	0.718	101E00	101E00	600E00	100E00

C-REF-NO 202
 CONS. NO 003
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 23
 TIME 0835

NO. DEPTHS 05
 SOUNDING 0150
 BT SLIDE NO 003

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			18.80					
1.0			18.82	0.006	2.4	212	8.79	
5.0			18.80	0.006	1.0	210	8.89	
10.0			18.80	0.008	1.0	211	8.88	
13.0			18.60	0.008	0.6	212	8.91	

DEPTH	SR P04	NH3	TFNO3	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					240E01	101E00	260E01	380E01
5.0					500E00	101E00	600E00	200E00
10.0					100E01	101E00	500E00	100E01
13.0					200E00	101E00	160E01	900E00

C-REF-NO 202
 CONS. NO 004
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 23
 TIME 1010

NO. DEPTHS 04
 SOUNDING 0100
 BT SLIDE NO 004

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			18.80					
1.0			18.53	0.006	0.6	214	9.24	
5.0			18.52	0.003	0.4	218	9.08	
8.0			18.52	0.008	0.6	218	9.10	

DEPTH	SR P04	NH3	TFNO3	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0	0.001	0.022	0.200	0.756	230E02	560E01	300E00	900E00
5.0	0.001	0.022	0.187	0.756	100E00	101E00	200E00	700E00
8.0	0.000	0.015	0.177	0.768	180E01	101E00	400E00	600E00

C-REF-NO 202
 CONS. NO 005
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 23
 TIME 1144

NO. DEPTHS 04
 SOUNDING 0080
 BT SLIDE NO 005

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			18.50					
1.0			18.41	0.004	1.0	213	9.16	
5.0			18.40	0.001	1.1	213	9.12	
6.0			18.40	0.006	1.1	213	9.10	

DEPTH	SR P04	NH3	TFNO3	R SI02	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0	0.005	0.025	0.185	0.800	101E00	101E00	400E00	120E01
5.0	0.005	0.025	0.187	0.812	101E00	101E00	600E00	260E01
6.0	0.005	0.040	0.175	0.812	101E00	101E00	300E00	600E00

C-REF-NO 202
 CONS. NO 006
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 23
 TIME 1249

NO. DEPTHS 03
 SOUNDING 0260
 BT SLIDE NO 006

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0	5.0	9	18.70					
1.0			18.57	0.021				
24.0			18.50	0.003				

DEPTH	SR P04	NH3	TFNO3	R SI02	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0								
24.0								

C-REF-NO 202
 CONS. NO 009
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 23
 TIME 1709

NO. DEPTHS 04
 SOUNDING 0120
 BT SLIDE NO 010

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0	4.5	10	18.60					
1.0			18.49	0.015	0.9	213	9.16	
5.0			18.49	0.010	1.0	212	9.16	
10.0			18.28	0.009	1.5	213	9.16	

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0	C.001	0.015	0.143	0.836	101E00	101E00	300E00	400E00
5.0	C.001	0.025	0.256	0.836				
10.0	C.000	0.010	0.137	0.824	101E00	101E00	300E00	300E00

C-REF-NO 202
 CONS. NO 01C
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 23
 TIME 1841

NO. DEPTHS 04
 SOUNDING 0320
 BT SLIDE NO 011

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0	7.0	5	19.20					
1.0			19.19	0.008				
10.0			19.07	0.013				
30.0			6.67	0.017				

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					101E00	101E00	300E00	100E00
10.0					101E00	101E00	500E00	200E00
30.0					101E00	101E00	180E01	500E00

C-REF-NO 202
 CONS. NO 011
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 23
 TIME 2014

NO. DEPTHS 07
 SOUNDING 0590
 BT SLIDE NO 013

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	T P04
0.0	8.5	6	18.80					
1.0			18.73	0.009	0.2	210	9.44	
5.0			18.71	0.015	0.2	210	9.36	
10.0			18.55	0.007	0.2	209	9.49	
25.0			4.74	0.015	0.4	208	11.91	
50.0			4.61	0.004	0.3	209	11.74	
57.0			4.61	0.005	0.5	210	11.74	

DEPTH	SR P04	NH3	TFN03	R SI02	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					101E00	101E00	200E00	100E00
5.0								
10.0					101E00	101E00	200E00	100E00
25.0								
50.0					100E00	101E00	300E00	200E00
57.0					101E00	101E00	600E00	200E00

C-REF-NO 202
 CONS. NO 012
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 23
 TIME 2139

NO. DEPTHS 06
 SOUNDING 0730
 BT SLIDE NO 015

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	T P04
0.0	7.0	6	18.40					
1.0			18.36	0.005	0.2	210	9.49	0.029
5.0			18.37	0.003	0.2	209	9.49	0.018
10.0			18.35	0.003	0.2	210	9.33	0.020
50.0			4.29	0.014	0.4	208	11.97	0.024
71.0			4.28	0.001	0.4	206	11.91	0.018

DEPTH	SR P04	NH3	TFN03	R SI02	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0	0.002	0.042	0.194	0.572				
5.0	0.002	0.045	0.194	0.600				
10.0	0.002	0.021	0.168	0.560				
50.0	0.002	0.018	0.256	1.480				
71.0	0.002	0.020	0.260	1.640				

C-REF-NO 202
 CONS. NO 013
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 23
 TIME 2256

NO. DEPTHS 04
 SOUNDING 0100
 BT SLIDE NO 016

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			18.80					
1.0			18.71	0.027	0.8	216	9.22	
5.0			18.70	0.001	0.7		9.28	
8.0			18.68	0.010	0.8	216	9.02	

DEPTH	SR P04	NH3	TFN03	R S102	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					250E01	101E00	210E01	240E01
5.0					800E00	101E00	340E01	140E01
8.0					150E01	101E00	700E00	130E01

C-REF-NO 202
 CONS. NO 014
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 24
 TIME 0022

NO. DEPTHS 04
 SOUNDING 0110
 BT SLIDE NO 017

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			18.70					
1.0			18.56	0.004	0.4	211	9.02	
5.0			18.57	0.011	0.5	212	9.24	
9.0			18.55	0.010	0.5	210	9.26	

DEPTH	SR P04	NH3	TFN03	R S102	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0	0.008	0.052	0.232	0.656	100E00	101E00	220E01	700E00
5.0	0.006	0.053	0.190	0.656				
9.0	0.003	0.042	0.174	0.670	101E00	101E00	800E00	700E00

C-REF-NO 202
CONS. NO 017
COUNTRY 18
INSTITUTE 22

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

YEAR 1969
MONTH 09
DAY 24
TIME 0505

NO. DEPTHS 05
SOUNDING 0170
BT SLIDE NO 021

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	T P04
0.0			18.60					
1.0			18.70	0.026	0.6	211	8.89	
5.0			18.72	0.020	0.5	211	9.00	
10.0			18.71	0.007	0.5	211	9.02	
15.0			18.67	0.005	0.7	211	8.96	

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0	C.001	0.032	0.196	0.760	600E00	101E00	600E00	100E01
5.0	C.001	0.045	0.200	0.756				
10.0	C.000	0.020	0.176	0.744	900E00	101E00	300E00	200E00
15.0	C.000	0.027	0.172	0.744	101E00	101E00	400E00	150E01

C-REF-NO 202
CONS. NO 018
COUNTRY 18
INSTITUTE 22

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

YEAR 1969
MONTH 09
DAY 24
TIME 0648

NO. DEPTHS 04
SOUNDING 0170
BT SLIDE NO 022

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	T P04
0.0			18.50					
1.0			18.50	0.027				
10.0			18.48	0.017				
15.0			18.34	0.010				

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					600E00	101E00	240E01	200E01
10.0					110E01	100E00	180E01	410E01
15.0					500E00	100E00	760E01	890E01

C-REF-NO 202
 CONS. NO 019
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 24
 TIME 0825

NO. DEPTHS 06
 SOUNDING 0660
 BT SLIDE NO 024

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			18.70					
1.0			18.60	0.017	0.6	211	9.28	
5.0			18.63	0.007	0.5	212	9.25	
10.0			18.61	0.016	0.4	210	9.31	
50.0			4.45	0.003	1.2	208	12.05	
64.0			4.44	0.001	1.6	208	11.77	

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					200E00	101E00	800E00	700E00
5.0								
10.0					100E00	101E00	300E00	500E00
50.0					101E00	101E00	300E00	400E01
64.0					101E00	101E00	800E00	500E00

C-REF-NO 202
 CONS. NO 020
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 24
 TIME 1007

NO. DEPTHS 06
 SOUNDING 0940
 BT SLIDE NO 026

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			18.50					
1.0			18.52	0.020	0.4	205	8.55	
5.0			18.54	0.007	0.2	207	9.22	
10.0			18.53	0.003	0.3	208	9.27	
50.0			4.55	0.014	0.2	208	12.21	
92.0			3.97	0.000	0.8	205	11.69	

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0	0.001	0.030	0.192	0.480				
5.0	0.001	0.025	0.192	0.510				
10.0	0.000	0.018	0.180	0.460				
50.0	0.002	0.010	0.245	1.120				
92.0	0.001	0.008	0.260	1.600				

C-REF-NO 202
 CONS. NO 021
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 24
 TIME 1159

NO. DEPTHS 06
 SOUNDING 0260
 BT SLIDE NO 028

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			18.40					
1.0			18.28	0.001	0.2	205	9.29	
5.0					0.2	206	9.32	
10.0			18.24	0.005	0.2	205	9.32	
20.0			18.29	0.010	0.2	205	9.33	
24.0			13.09	0.009	0.4	209	10.20	

DEPTH	SR P04	NH3	TFN03	R S102	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					101E00	101E00	800E00	300E00
5.0								
10.0					101E00	101E00	200E00	500E00
20.0								
24.0					101E00	101E00	800E00	300E00

C-REF-NO 202
 CONS. NO 022
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 24
 TIME 1336

NO. DEPTHS 04
 SOUNDING 0150
 BT SLIDE NO 029

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0	4.0	9	18.00					
1.0			18.01	0.006				
10.0			18.01	0.000				
13.0			18.03	0.003				

DEPTH	SR P04	NH3	TFN03	R S102	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					600E00	101E00	130E01	600E00
10.0					500E00	200E00	600E00	900E00
13.0					140E01	101E00	100E01	150E01

C-REF-NO 202
 CONS. NO 023
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 24
 TIME 1607

NO. DEPTHS 04
 SOUNDING 0220
 BT SLIDE NO 031

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0	5.0	8	17.20					
1.0			17.24	0.010	0.4	208	9.49	
10.0			17.25	0.002	0.4	208	9.50	
20.0			16.94	0.003	0.4	207	9.50	

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0	0.003	0.060	0.290	0.644	200E00	101E00	900E00	140E01
10.0	0.002	0.030	0.200	0.650	101E00	101E00	800E00	400E00
20.0	0.001	0.020	0.196	0.644	101E00	101E00	700E00	700E00

C-REF-NO 202
 CONS. NO 024
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 24
 TIME 1732

NO. DEPTHS 03
 SOUNDING 1240
 BT SLIDE NO 032

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0	4.5	7	17.70					
1.0			17.73	0.006				
122.0			3.83	0.018				

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0								
122.0								

C-REF-NO 202
 CONS. NO 025
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 24
 TIME 1908

NO. DEPTHS 05
 SOUNDING 0420
 BT SLIDE NO 034

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	OZ W	T P04
0.0	7.0	6	17.60					
1.0			17.73	0.009	0.3	200	9.61	
10.0			17.75	0.012	0.3	201	9.45	
20.0			17.75	0.009	0.2	203	9.49	
40.0			6.74	0.001	0.5	210	11.58	

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					300E00	101E00	100E01	600E00
10.0					101E00	101E00	800E00	600E00
20.0								
40.0					101E00	101E00	700E00	300E00

C-REF-NO 202
 CONS. NO 026
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 24
 TIME 2033

NO. DEPTHS 08
 SOUNDING 0880
 BT SLIDE NO 036

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	OZ W	T P04
0.0	7.0	7	18.30					
1.0			18.23	0.020	0.1	201	9.41	0.012
5.0			18.22	0.022	0.2	207	9.30	0.022
10.0			18.25	0.019	0.2	208	9.33	0.021
45.0								0.055
49.0			4.39	0.011	0.4	204	12.30	
78.0								0.030
85.0			3.93	0.015	0.4	205	11.79	

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0	C.001	0.040	0.192	0.524				
5.0	C.001	0.035	0.188	0.524				
10.0	C.000	0.022	0.168	0.518				
45.0	C.002	0.016	0.250	1.000				
49.0								
78.0	C.002	0.014	0.260	1.600				
85.0								

C-REF-NO 202
 CONS. NO 027
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 24
 TIME 2225

NO. DEPTHS 06
 SOUNDING 0520
 BT SLIDE NO 038

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			17.90					
1.0			17.89		0.1	200	9.64	
5.0			17.89	0.006	0.1	200	9.41	
10.0			17.88	0.026	0.1	200	9.42	
25.0			9.54	0.032	0.2	203	12.25	
50.0			5.06	0.005	0.3	205	11.20	

DEPTH	SR P04	NH3	TFN03	R SI02	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					101E00	101E00	700E00	400E00
5.0								
10.0					100E00	101E00	110E01	500E00
25.0								
50.0					700E00	100E00	250E01	260E01

C-REF-NO 202
 CONS. NO 028
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 24
 TIME 2355

NO. DEPTHS 05
 SOUNDING 0500
 BT SLIDE NO 040

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			17.80					
1.0			17.70	0.001	0.1	199	9.33	
10.0			17.73	0.012	0.1	198	9.33	
15.0			17.70	0.014	0.2	196	9.35	
46.0			4.76	0.025	0.6	206	11.12	

DEPTH	SR P04	NH3	TFN03	R SI02	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0	0.002	0.040	0.176	0.572				
10.0	0.005	0.050	0.180	0.572				
15.0	0.003	0.055	0.168	0.572				
46.0	0.002	0.042	0.270	1.400				

C-REF-NO 202
 CONS. NO 029
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 25
 TIME 0139

NO. DEPTHS 04
 SOUNDING 0120
 BT SLIDE NO 041

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			17.80					
1.0			17.67	0.010	3.9	223	9.10	
5.0			17.70	0.017	4.3	224	9.10	
10.0			17.69	0.006	4.5	223	9.12	

DEPTH	SR P04	NH3	TFN03	R SI02	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					500E00	101E00	620E01	270E01
5.0								
10.0					200E01	101E00	710E01	620E01

C-REF-NO 202
 CONS. NO 030
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 25
 TIME 0315

NO. DEPTHS 03
 SOUNDING 0100
 BT SLIDE NO 042

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			17.70					
1.0			17.57	0.010				
8.0			17.56	0.005				

DEPTH	SR P04	NH3	TFN03	R SI02	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					600E00	101E00	970E01	700E01
8.0					300E00	101E00	830E01	500E01

C-REF-NO 202
 CONS. NO 031
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 25
 TIME 0549

NO. DEPTHS 04
 SOUNDING 0120
 BT SLIDE NO 043

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			17.80					
1.0			17.71	0.008	7.5	266	8.19	
5.0			17.73	0.010	7.5	267	8.16	
10.0			17.73	0.001	7.8	267	8.18	

DEPTH	SR P04	NH3	TFNO3	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					200E00	101E00	520E01	320E01
5.0								
10.0					100E00	101E00	530E01	390E01

C-REF-NO 202
 CONS. NO 032
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 25
 TIME 0721

NO. DEPTHS 03
 SOUNDING 0080
 BT SLIDE NO 044

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			17.10					
1.0			17.10	0.012	35.0	280	8.83	
6.0			17.10	0.004	35.0	289	8.86	

DEPTH	SR P04	NH3	TFNO3	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					101E00	101E00	390E01	400E01
6.0					101E00	101E00	480E01	380E01

C-REF-NO 202
CONS. NO 033
COUNTRY 18
INSTITUTE 22

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

YEAR 1969
MONTH 09
DAY 25
TIME 1022

NO. DEPTHS 04
SOUNDING 0210
BT SLIDE NO 046

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			17.60					
1.0			17.69	0.000	0.4	200	9.14	
10.0			17.73	0.013	0.4	205	9.17	
19.0			17.68	0.017	0.5	203	9.17	

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					800E00	101E00	700E00	300E00
10.0					101E00	101E00	700E00	400E00
19.0					101E00	101E00	400E00	200E00

C-REF-NO 202
CONS. NO 034
COUNTRY 18
INSTITUTE 22

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

YEAR 1969
MONTH 09
DAY 25
TIME 1151

NO. DEPTHS 03
SOUNDING 0490
BT SLIDE NO 047

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			17.70					
1.0			17.60	0.024				
47.0			5.15	0.016				

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0								
47.0								

C-REF-NO 202
CONS. NO 037
COUNTRY 18
INSTITUTE 22

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

YEAR 1969
MONTH 09
DAY 25
TIME 1634

NO. DEPTHS 06
SOUNDING 0800
BT SLIDE NO 052

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	T P04
0.0	6.0	9	17.50					
1.0			17.51	0.003	0.6	199	9.47	
10.0			17.46	0.008	0.5	199	9.44	
20.0			17.52	0.005	0.6	197	9.44	
50.0			4.41	0.019	1.0	202	12.05	
78.0			4.12	0.013	1.3	207	11.66	

DEPTH	SR P04	NH3	TFN03	R SI02	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0	C.005	0.048	0.200	0.515				
10.0	C.004	0.028	0.180	0.510				
20.0	C.002	0.026	0.166	0.515				
50.0	C.002	0.018	0.290	1.345				
78.0	C.002	0.016	0.285	1.672				

C-REF-NO 202
CONS. NO 038
COUNTRY 18
INSTITUTE 22

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

YEAR 1969
MONTH 09
DAY 25
TIME 1818

NO. DEPTHS 03
SOUNDING 1620
BT SLIDE NO 053

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	T P04
0.0	6.0	6	16.70					
1.0			16.65	0.003				
160.0			3.84	0.015				

DEPTH	SR P04	NH3	TFN03	R SI02	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0								
160.0								

C-REF-NO 202
CONS. NO 041
COUNTRY 18
INSTITUTE 22

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

YEAR 1969
MONTH 09
DAY 25
TIME 2239

NO. DEPTHS 04
SOUNDING 0160
BT SLIDE NO 058

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			16.20					
1.0			16.14	0.013	0.3	205	9.52	
10.0			16.15	0.011	0.3	203	9.52	
14.0			15.98	0.012	0.4	204	9.52	

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					500E00	101E00	900E00	160E01
10.0					500E00	101E00	600E00	100E01
14.0					101E00	101E00	500E00	300E00

C-REF-NO 202
CONS. NO 042
COUNTRY 18
INSTITUTE 22

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

YEAR 1969
MONTH 09
DAY 26
TIME 0009

NO. DEPTHS 05
SOUNDING 0180
BT SLIDE NO 060

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			15.90					
1.0			15.95	0.010	0.2	205	9.54	
5.0			15.96	0.006	0.1	205	9.52	
10.0			15.76	0.008	0.2	204	9.63	
16.0			7.75	0.005	0.8	208	11.51	

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0	C.008	0.042	0.168	0.712	400E00	101E00	110E01	180E01
5.0	C.008	0.050	0.162	0.740				
10.0	C.005	0.045	0.178	0.908	100E00	101E00	700E00	160E01
16.0	C.010	0.050	0.225	1.200	100E00	101E00	270E01	140E01

C-REF-NO 202
 CONS. NO 043
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 26
 TIME 0120

NO. DEPTHS 06
 SOUNDING 0780
 BT SLIDE NO 062

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			17.00					
1.0			16.99	0.001	0.3	203	9.44	
5.0			17.01	0.003	0.2	204	9.46	
10.0			17.00	0.000	0.2	204	9.46	
50.0			5.28	0.013	0.2	205	12.27	
76.0			4.56	0.019	0.8	206	11.80	

DEPTH	SR P04	NH3	TFNO3	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					101E00	101E00	500E00	800E00
5.0								
10.0					101E00	101E00	300E00	400E00
50.0					101E00	101E00	600E00	800E00
76.0					100E00	101E00	800E00	180E01

C-REF-NO 202
 CONS. NO 044
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 26
 TIME 0300

NO. DEPTHS 03
 SOUNDING 1480
 BT SLIDE NO 063

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			17.00					
1.0			16.88	0.017				
146.0			3.90	0.016				

DEPTH	SR P04	NH3	TFNO3	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0								
146.0								

C-REF-NO 202
CONS. NO 045
COUNTRY 18
INSTITUTE 22

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

YEAR 1969
MONTH 09
DAY 26
TIME 0441

NO. DEPTHS 06
SOUNDING 1560
BT SLIDE NO 065

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			16.70					
1.0			16.73	0.011	0.2	202	9.72	
5.0			16.74	0.004	0.2	203	9.69	
15.0			16.32	0.090	0.5	201	9.98	
50.0			4.31	0.027	1.0	203	12.60	
154.0			3.78	0.003	2.0	208	11.97	

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0								
5.0								
15.0								
50.0								
154.0								

C-REF-NO 202
CONS. NO 046
COUNTRY 18
INSTITUTE 22

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

YEAR 1969
MONTH 09
DAY 26
TIME 0620

NO. DEPTHS 05
SOUNDING 0520
BT SLIDE NO 067

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			17.00					
1.0			17.05	0.013	0.3	182	9.53	0.026
10.0			16.75	0.001	0.2	178	9.58	0.015
15.0			16.55	0.001	0.2	183	9.66	0.052
50.0			4.63	0.012	0.2	187	12.36	0.018

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0	0.003	0.030	0.173	0.495	101E00	101E00	100E01	170E01
10.0	0.005	0.030	0.173	0.495	101E00	101E00	120E01	500E00
15.0	0.005	0.025	0.227	0.794				
50.0	0.003	0.020	0.238	1.320	100E00	101E00	800E00	500E00

C-REF-NO 202
 CONS. NO 047
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 26
 TIME 0800

NO. DEPTHS 06
 SOUNDING 0860
 BT SLIDE NO 069

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			17.00					
1.0			17.09	0.007	0.2	165	9.45	
10.0			17.12	0.005	0.3	185	9.49	
20.0			17.14	0.015	0.1	171	9.52	
50.0			4.72	0.006	0.1	184	11.30	
84.0			4.29	0.003	0.7	171	11.07	

H H H M

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0								
10.0								
20.0								
50.0								
84.0								

C-REF-NO 202
 CONS. NO 048
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 26
 TIME 0935

NO. DEPTHS 03
 SOUNDING 0670
 BT SLIDE NO 070

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			17.40					
1.0			16.48	0.066				
65.0			5.06	0.014				

H H H M

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0								
65.0								

C-REF-NO 202
CONS. NO C49
COUNTRY 18
INSTITUTE 22

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

YEAR 1969
MONTH 09
DAY 26
TIME 1118

NO. DEPTHS 04
SOUNDING 0220
BT SLIDE NO 072

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			17.20					
1.0			17.14	0.005	0.7	213	9.24	
10.0			17.14	0.005	0.6	213	9.18	
20.0			10.79	0.001	0.6	201	10.31	

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0	C.003	0.030	0.135	0.880	101E00	101E00	270E01	170E01
10.0	C.000	0.030	0.140	0.920	101E00	101E00	700E00	900E00
20.0	C.000	0.029	0.215	1.160	101E00	101E00	190E01	800E00

C-REF-NO 202
CONS. NO C5C
COUNTRY 18
INSTITUTE 22

LAT 44-38-24N
LON 083-14-54W

YEAR 1969
MONTH 09
DAY 26
TIME 1246

NO. DEPTHS 03
SOUNDING 0100
BT SLIDE NO 073

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0	5.0	70	16.50					
1.0			16.41	0.005				
8.0			16.42	0.007				

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					101E00	101E00	270E01	230E01
8.0					100E00	101E00	100E01	120E01

C-REF-NO 202
 CONS. NO 051
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 26
 TIME 1353

NO. DEPTHS 06
 SOUNDING 0620
 BT SLIDE NO 075

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	T P04
0.0	7.0	7	16.80					
1.0			16.64	0.010	0.2	192	9.33	
10.0			16.63	0.005	0.2	193	9.46	
20.0			16.64	0.006	0.2	192	9.47	
50.0			4.83	0.011	0.4	205	11.59	
60.0			4.79	0.018	0.5	201	11.43	

DEPTH	SR P04	NH3	TFNO3	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0								
10.0								
20.0								
50.0								
60.0								

C-REF-NO 202
 CONS. NO 052
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 26
 TIME 1535

NO. DEPTHS 05
 SOUNDING 0700
 BT SLIDE NO 076

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	T P04
0.0	7.0	7	16.80					
1.0			16.63	0.019				
10.0			16.63	0.025				
50.0			4.89	0.004				
68.0			4.77	0.018				

DEPTH	SR P04	NH3	TFNO3	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					100E00	101E00	130E01	500E00
10.0					101E00	101E00	600E00	300E00
50.0					101E00	101E00	200E00	100E00
68.0					100E00	101E00	110E01	100E00

C-REF-NO 202
 CONS. NO 053
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 26
 TIME 1727

NO. DEPTHS 06
 SOUNDING 1350
 BT SLIDE NO 078

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0	7.0	6	15.80					
1.0			15.79	0.002	0.2	199	9.86	
5.0			15.78	0.006	0.1	199	9.86	
15.0			15.78	0.005	0.1	200	9.87	
50.0			4.71	0.001	0.2	204	12.70	
131.0			3.99	0.029	0.5	205	12.36	

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0	C.002	0.040	0.200	0.624				
5.0	C.000	0.025	0.188	0.600				
15.0	C.002	0.025	0.188	0.605				
50.0	C.001	0.025	0.249	1.248				
131.0	C.005	0.025	0.256	1.300				

C-REF-NO 202
 CONS. NO 054
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 26
 TIME 1913

NO. DEPTHS 03
 SOUNDING 1450
 BT SLIDE NO 079

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0	7.0	6	16.40					
1.0			16.31	0.002				
117.0			3.91	0.007				

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0								
117.0								

C-REF-NO 202
 CONS. NO 057
 COUNTRY 18
 INSTITUTE 22

LAT 45-05-00N
 LON 081-32-06W

YEAR 1969
 MONTH 09
 DAY 26
 TIME 2254

NO. DEPTHS 05
 SOUNDING 0300
 BT SLIDE NO 084

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	T PD4
0.0	9.0	4	15.90					
1.0			15.93	0.009	0.4	184	9.67	
10.0			15.87	0.021	0.2	180	9.64	
25.0			15.47	0.024	0.6	174	9.80	
28.0			13.87	0.002	0.2	180	10.19	

DEPTH	SR PD4	NH3	TFNO3	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					101E00	101E00	110E01	500E00
10.0					101E00	101E00	600E00	400E00
25.0								
28.0					400E00	101E00	140E01	120E01

C-REF-NO 202
 CONS. NO 058
 COUNTRY 18
 INSTITUTE 22

LAT 45-13-18N
 LON 081-49-12W

YEAR 1969
 MONTH 09
 DAY 27
 TIME 0046

NO. DEPTHS 06
 SOUNDING 0450
 BT SLIDE NO 086

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	T PD4
0.0			15.70					
1.0			15.57	0.004	0.2	202	9.74	
10.0			15.57	0.011	0.2	200	9.75	
20.0			15.38	0.001	0.4	199	9.78	
42.0								
43.0			6.25	0.009	0.4	206	11.59	

DEPTH	SR PD4	NH3	TFNO3	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0	0.000	0.025	0.188	0.736	101E00	101E00	230E01	500E00
10.0	0.000	0.047	0.188	0.760	101E00	101E00	900E00	110E01
20.0	0.000	0.030	0.188	0.760				
42.0	0.000	0.025	0.256	1.424				
43.0					101E00	101E00	600E00	300E00

C-REF-NO 202
 CONS. NO 059
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 27
 TIME 0232

NO. DEPTHS 06
 SOUNDING 1050
 BT SLIDE NO 088

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	T P04
0.0			16.50					
1.0			16.44	0.001	0.2	203	9.71	
5.0			16.43	0.004	0.2	203	9.71	
10.0			16.44	0.008	0.2	203	9.71	
50.0			5.02	0.010	0.2	204	12.58	
102.0			3.96		0.6	209	12.04	

DEPTH	SR P04	NH3	TFNO3	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0								
5.0								
10.0								
50.0								
102.0								

C-REF-NO 202
 CONS. NO 060
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 27
 TIME 0412

NO. DEPTHS 05
 SOUNDING 1100
 BT SLIDE NO 089

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	T P04
0.0			15.80					
1.0			15.78	0.027				
9.0			15.80	0.005				
45.0			4.60	0.005				
98.0			4.05	0.007				

DEPTH	SR P04	NH3	TFNO3	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					101E00	101E00	120E01	300E00
9.0					101E00	101E00	500E00	600E00
45.0					100E00	101E00	400E00	300E00
98.0					101E00	101E00	800E00	400E00

C-REF-NO 202
 CONS. NO 063
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 27
 TIME 0859

NO. DEPTHS 05
 SOUNDING 0480
 BT SLIDE NO 093

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			16.40					
1.0			16.44	0.001	0.2	174	9.48	
10.0			16.44	0.005	0.2	172	9.47	
20.0			16.44	0.004	0.3	178	9.48	
46.0			4.59	0.004	0.8	187	11.74	

DEPTH	SR P04	NH3	TFNO3	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					300E00	101E00	110E01	210E01
10.0					101E00	101E00	600E00	800E00
20.0								
46.0					900E00	101E00	100E01	100E00

C-REF-NO 202
 CONS. NO 064
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 27
 TIME 0951

NO. DEPTHS 05
 SOUNDING 0190
 BT SLIDE NO 095

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			16.00					
1.0			15.93	0.010	0.3	179	9.52	
5.0			15.95	0.010	0.4	181	9.50	
10.0			15.96	0.020	0.4	173	9.50	
17.0			8.10	0.005	0.4	171	9.72	

DEPTH	SR P04	NH3	TFNO3	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0	0.000	0.025	0.136	0.660	400E00	101E00	250E01	430E01
5.0	0.000	0.030	0.136	0.670				
10.0	0.000	0.023	0.124	0.630	200E00	101E00	120E01	900E00
17.0	0.000	0.023	0.166	0.400	400E00	101E00	130E01	400E00

C-REF-NO 202
 CONS. NO 065
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 27
 TIME 1135

NO. DEPTHS 04
 SOUNDING 0080
 BT SLIDE NO 096

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			15.00					
1.0			14.92	0.014	0.4	201	9.57	
5.0			14.91	0.006	0.4	201	9.58	
6.0			14.92	0.012	0.6	201	9.58	

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					300E01	120E01	900E02	140E03
5.0					500E01	101E00	780E02	220E03
6.0					320E01	101E00	760E02	130E03

C-REF-NO 202
 CONS. NO 066
 COUNTRY 18
 INSTITUTE 22

LAT 45-04-48N
 LON 083-14-48W

YEAR 1969
 MONTH 09
 DAY 27
 TIME 1336

NO. DEPTHS 04
 SOUNDING 0110
 BT SLIDE NO 097

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0	6.0	8	14.20					
1.0			14.10	0.005				
5.0			14.10	0.001				
8.0			14.06	0.000				

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					500E00	101E00	140E01	180E01
5.0					880E01	101E00	500E00	410E01
8.0					240E01	101E00	900E00	330E01

C-REF-NO 202
 CONS. NO 067
 COUNTRY 18
 INSTITUTE 22

LAT 45-08-30N
 LON 082-59-00W

YEAR 1969
 MONTH 09
 DAY 27
 TIME 1512

NO. DEPTHS 06
 SOUNDING 0800
 BT SLIDE NO 099

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	T PC4
0.0	7.0	8	16.10					
1.0			15.95	0.010	0.1	196	9.66	
9.0			15.96	0.003	0.1	194	9.72	
19.0			15.70	0.011	0.2	196	9.72	
50.0			4.15	0.005	0.2	205	12.42	
78.0			3.98	0.022	0.6	203	11.97	

DEPTH	SR PC4	NH3	TFNO3	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0								
9.0								
19.0								
50.0								
78.0								

C-REF-NO 202
 CONS. NO 068
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 27
 TIME 1718

NO. DEPTHS 06
 SOUNDING 1760
 BT SLIDE NO 101

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	T PC4
0.0	7.0	6	15.10					
1.0			15.11	0.006	0.2	204	9.97	
5.0			15.10	0.012	0.2	204	9.97	
15.0			15.06	0.001	0.3	203	10.01	
49.0			4.14	0.007	0.2	205	12.66	
167.0			3.78	0.044	0.8	206	12.44	

DEPTH	SR PC4	NH3	TFNO3	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0	0.005	0.040	0.228	0.650	340E02	520E01	100E01	340EC1
5.0	0.003	0.020	0.188	0.650				
15.0	0.002	0.020	0.185	0.650	101E00	101E00	600E00	300E00
49.0	0.002	0.020	0.268	1.100	101E00	101E00	100E00	200E00
167.0	0.001	0.020	0.272	1.260	101E00	101E00	500E00	200E00

C-REF-NC 202
 CONS. NC 069
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 27
 TIME 1915

NO. DEPTHS 06
 SOUNDING 1040
 BT SLIDE NC 103

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	T PO4
C.C	8.5	5	15.50					
1.C			15.34	0.009	0.4	202	10.00	
5.C			15.35	0.010	0.4	183	9.97	
15.C			15.34	0.002	0.3	186	9.97	
50.C			4.11	0.001	0.1	184	12.66	
102.C			3.94	0.004	0.6	183	12.21	

DEPTH	SR PC4	NH3	TFNO3	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
C.C								
1.C								
5.C								
15.C								
50.C								
102.C								

C-REF-NC 202
 CONS. NC 070
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 27
 TIME 2127

NO. DEPTHS 06
 SOUNDING 0650
 BT SLIDE NO 105

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	T PO4
C.C	9.0	5	15.50					
1.C			15.46	0.010				
10.C			15.46	0.005				
15.C			15.44	0.004				
50.C			5.02	0.018				
63.C			4.11					

DEPTH	SR PC4	NH3	TFNO3	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
C.C								
1.C								
10.C					101E00	101E00	700E00	200E00
15.C								
50.C					101E00	101E00	130E01	800E00
63.C					101E00	101E00	600E00	300E00

C-REF-NO 202
 CONS. NO 071
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 27
 TIME 2302

NO. DEPTHS 05
 SOUNDING 0480
 BT SLIDE NO 107

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	OZ W	T P04
0.0	7.0	4	15.50					
1.0			15.47	0.009	0.2	202	9.88	
5.0			15.47	0.010	0.2	202	9.78	
10.0			15.48	0.029	0.2	203	9.86	
46.0			5.25	0.011	0.6	204	9.86	

DEPTH	SR P04	NH3	TFNO3	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					101E00	101E00	600E00	120E01
5.0								
10.0					200E00	101E00	900E00	200E00
46.0					100E01	101E00	120E01	600E00

C-REF-NO 202
 CONS. NO 072
 COUNTRY 18
 INSTITUTE 22

LAT 45-32-06N
 LON 082-02-42W

YEAR 1969
 MONTH 09
 DAY 28
 TIME 0020

NO. DEPTHS 04
 SOUNDING 0280
 BT SLIDE NO 108

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	OZ W	T P04
0.0			15.00					
1.0			14.95	0.004				
10.0			14.92	0.014				
26.0			6.12	0.024				

DEPTH	SR P04	NH3	TFNO3	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					101E00	101E00	900E00	130E01
10.0					101E00	101E00	230E01	700E00
26.0					101E00	101E00	100E01	900E00

C-REF-NO 202
CONS. NO 077

COUNTRY 18
INSTITUTE 22

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

YEAR 1969
MONTH 09
DAY 28
TIME 0743

NO. DEPTHS 04
SOUNDING 0120
BT SLIDE NO 114

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			14.90					
1.0			14.82	0.008	0.6	196	9.87	
5.0			14.81	0.009	0.6	193	9.87	
10.0			14.71	0.002	0.5	184	9.89	

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0	C.001	0.025	0.195	0.650	200E00	101E00	300E00	500E00
5.0	C.001	0.027	0.192	0.650	200E00	101E00	300E00	200E00
10.0	0.002	0.020	0.184	0.640	100E00	101E00	600E00	300E00

C-REF-NO 202
CONS. NO 078

COUNTRY 18
INSTITUTE 22

LAT 45-23-30N
LON 083-39-06W

YEAR 1969
MONTH 09
DAY 28
TIME 0955

NO. DEPTHS 04
SOUNDING 0230
BT SLIDE NO 115

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			14.70					
1.0			14.61	0.005				
10.0			14.60	0.016				
21.0			14.57	0.009				

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					200E00	101E00	400E00	200E00
10.0					300E00	101E00	800E00	200E00
21.0					200E00	101E00	400E00	400E00

C-REF-NO 202
 CONS. NO 079
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 28
 TIME 1112

NO. DEPTHS 06
 SOUNDING 0790
 BT SLIDE NO 117

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	T P04
0.0			13.60					
1.0			13.53	0.006	0.2	201	10.41	
10.0			13.53	0.024	0.2	201	10.30	
20.0			13.39	0.011	0.2	200	10.34	
50.0			4.11	0.021	0.4	204	12.05	
77.0			4.06	0.017	0.6	204	11.90	

DEPTH	SR P04	NH3	TFNO3	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0								
10.0								
20.0								
50.0								
77.0								

C-REF-NO 202
 CONS. NO 080
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 28
 TIME 1247

NO. DEPTHS 06
 SOUNDING 1260
 BT SLIDE NO 119

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	T P04
0.0	7.0	9	14.00					
1.0			13.84	0.007	0.3	197	10.59	
5.0			13.86	0.006	0.2	196	10.25	
10.0			13.86	0.004	0.2	197	10.25	
50.0			4.24	0.001	0.2	198	12.58	
121.0			3.90	0.010	1.3	205	11.93	

DEPTH	SR P04	NH3	TFNO3	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0	0.002	0.029	0.198	0.630	300E00	101E00	300E00	300E00
5.0	0.001	0.025	0.198	0.640				
10.0	0.003	0.052	0.198	0.640	200E00	101E00	900E00	100E00
50.0	0.002	0.045	0.313	1.260	200E00	101E00	600E00	100E00
121.0	0.001	0.025	0.364	1.600	100E00	101E00	700E00	300E00

C-REF-NO 202
 CONS. NO 081
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 28
 TIME 1423

NO. DEPTHS 05
 SOUNDING 0220
 BT SLIDE NO 120

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0	7.0	7	14.80					
1.0			14.64	0.004	0.1	205	9.99	
5.0			14.65	0.005	0.1	203	9.94	
10.0			14.66	0.009	0.1	204	10.02	
20.0			13.50	0.003	0.2	206	10.30	

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0								
5.0								
10.0								
20.0								

C-REF-NO 202
 CONS. NO 082
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 28
 TIME 1557

NO. DEPTHS 05
 SOUNDING 0640
 BT SLIDE NO 121

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0	7.0	6	15.00					
1.0			14.93	0.012				
10.0			14.93					
50.0			5.27	0.019				
60.0			4.57	0.001				

DEPTH	SR P04	NH3	TFN03	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					101E00	100E00	700E00	300E00
10.0					101E00	101E00	300E00	100E00
50.0					101E00	101E00	200E00	100E01
60.0					101E00	101E00	400E00	700E00

C-REF-NO 202
 CONS. NO 083
 COUNTRY 18
 INSTITUTE 22

LAT 45-45-54N
 LON 082-46-48W

YEAR 1969
 MONTH 09
 DAY 28
 TIME 1708

NO. DEPTHS 04
 SOUNDING 0190
 BT SLIDE NO 123

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	T P04
0.0	8.0	5	13.60					
1.0			13.58	0.000	0.4	202	10.19	
5.0			13.59	0.004	0.2	204	10.14	
17.0			7.85	0.001	0.4	205	11.46	

DEPTH	SR P04	NH3	TFNO3	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					400E00	101E00	700E00	900E00
5.0								
17.0					101E00	101E00	600E00	700E00

C-REF-NO 202
 CONS. NO 084
 COUNTRY 18
 INSTITUTE 22

LAT 45-46-18N
 LON 083-01-00W

YEAR 1969
 MONTH 09
 DAY 28
 TIME 1848

NO. DEPTHS 04
 SOUNDING 0150
 BT SLIDE NO 124

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	T P04
0.0	5.0	7	13.90					
1.0			13.90	0.012				
10.0			13.83	0.002				
13.0			13.78	0.016				

DEPTH	SR P04	NH3	TFNO3	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					300E00	101E00	120E01	170E01
10.0					101E00	101E00	500E00	600E00
13.0					101E00	101E00	150E01	800E00

C-REF-NO 202
CONS. NO 085
COUNTRY 18
INSTITUTE 22

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

YEAR 1969
MONTH 09
DAY 28
TIME 2021

NO. DEPTHS 06
SOUNDING 0970
BT SLIDE NO 126

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0	7.0	4	13.80					
1.0			13.72	0.013	0.2	188	10.37	
5.0			13.74	0.002	0.3	160	10.37	
10.0			13.70	0.010	0.3	193	10.47	
50.0			4.02	0.011	0.1	197	12.75	
95.0			3.87	0.009	1.4	176	11.74	

DEPTH	SR P04	NH3	TFNO3	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0								
5.0								
10.0								
50.0								
95.0								

C-REF-NO 202
CONS. NO 086
COUNTRY 18
INSTITUTE 22

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

YEAR 1969
MONTH 09
DAY 28
TIME 2208

NO. DEPTHS 05
SOUNDING 0690
BT SLIDE NO 127

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0	7.0	5	14.20					
1.0			14.26	0.009				
10.0			14.25	0.002				
50.0			7.28	0.001				
67.0			6.30					

DEPTH	SR P04	NH3	TFNO3	R SIO2	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					990E01	101E00	100E01	140E01
10.0					110E03	450E02	290E01	490E01
50.0					220E01	101E00	580E01	600E01
67.0					160E01	101E00	100E01	900E00

C-REF-NO 202
 CONS. NO 087
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 28
 TIME 2336

NO. DEPTHS 06
 SOUNDING 0600
 BT SLIDE NO 129

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			14.10					
1.0			14.03	0.018	0.1	157	10.03	
10.0			14.03	0.005	0.1	160	10.00	
15.0			13.74	0.010	0.1	160	10.01	
50.0			6.82	0.059	0.3	194	10.96	
58.0			6.02	0.070	0.3	197	11.20	

DEPTH	SR P04	NH3	TFN03	R SI02	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					190E02	101E00	120E01	130E01
10.0					180E02	101E00	500E00	800E00
15.0								
50.0					150E01	101E00	600E00	700E00
58.0					420E01	101E00	800E00	500E00

C-REF-NO 202
 CONS. NO 088
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 29
 TIME 0147

NO. DEPTHS 04
 SOUNDING 0180
 BT SLIDE NO 130

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			13.90					
1.0			13.91	0.003				
10.0			13.91	0.013				
16.0			13.90	0.003				

DEPTH	SR P04	NH3	TFN03	R SI02	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					230E02	101E00	700E00	400E00
10.0					220E02	101E00	800E00	800E00
16.0					700E01	101E00	120E01	110E01

C-REF-NO 202
CONS. NO 093
COUNTRY 18
INSTITUTE 22

LAT 45-31-00N
LON 084-06-00W

YEAR 1969
MONTH 09
DAY 29
TIME 0946

NO. DEPTHS 04
SOUNDING 0130
BT SLIDE NO 137

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			13.20					
1.0			13.26	0.034				
10.0			13.27	0.004				
11.0			13.26	0.010				

DEPTH	SR P04	NH3	TFN03	R SI02	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					200E00	101E00	130E01	210E01
10.0					800E00	101E00	150E01	100E01
11.0					200E00	101E00	900E00	600E00

C-REF-NO 202
CONS. NO 094
COUNTRY 18
INSTITUTE 22

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

YEAR 1969
MONTH 09
DAY 29
TIME 1108

NO. DEPTHS 05
SOUNDING 0440
BT SLIDE NO 139

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	T P04
0.0			13.20					
1.0			13.13	0.011	0.2	207	10.33	
5.0			13.12	0.001	0.4	205	9.52	
10.0			13.11	0.001	0.2	206	9.52	
42.0			5.58	0.029	1.0	203	11.51	

DEPTH	SR P04	NH3	TFN03	R SI02	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					101E00	101E00	600E00	110E01
5.0					100E00	101E00	500E00	140E01
10.0					101E00	101E00	200E00	100E01
42.0					101E00	101E00	500E00	110E01

C-REF-NO 202
 CONS. NO 095
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 29
 TIME 1243

NO. DEPTHS 04
 SOUNDING 0170
 BT SLIDE NO 140

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	T P04
0.0	7.0	7	14.00					
1.0			13.97	0.009				
10.0			13.91	0.011				
15.0			13.70	0.006				

DEPTH	SR P04	NH3	TFN03	R SI02	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					760E01	500E01	110E01	120E01
10.0					200E00	101E00	800E00	600E00
15.0					100E00	101E00	900E00	800E00

C-REF-NO 202
 CONS. NO 096
 COUNTRY 18
 INSTITUTE 22

LAT 45-48-48N
 LON 084-45-18W

YEAR 1969
 MONTH 09
 DAY 29
 TIME 1409

NO. DEPTHS 05
 SOUNDING 0370
 BT SLIDE NO 141

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	T P04
0.0	4.0	8	14.80					
1.0			14.63	0.001	0.6	248	9.71	0.017
10.0			13.89	0.006	0.5	238	9.88	0.023
15.0			13.37	0.013	0.6	231	10.09	0.020
35.0			11.73	0.005	0.6	219	10.41	0.020

DEPTH	SR P04	NH3	TFN03	R SI02	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0	0.020	0.035	0.132	0.710	680E02	170E02	270E01	340E01
10.0	0.015	0.038	0.144	0.810	700E00	500E00	800E00	140E01
15.0	0.010	0.030	0.150	0.835				
35.0	0.015	0.035	0.182	0.900	300E00	100E00	900E00	180E01

C-REF-NO 202
 CONS. NO 097
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 29
 TIME 1518

NO. DEPTHS 04
 SOUNDING 0520
 BT SLIDE NO 142

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	T P04
0.0	5.0	7	13.30					
1.0			13.21	0.011				
10.0			13.21	0.001				
50.0			5.44	0.009				

DEPTH	SR P04	NH3	TFNO3	R SI02	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0					101E00	101E00	300E00	600E00
10.0					600E00	101E00	400E00	600E00
50.0					101E00	101E00	700E00	500E00

C-REF-NO 202
 CONS. NO 098
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 09
 DAY 29
 TIME 1638

NO. DEPTHS 07
 SOUNDING 0700
 BT SLIDE NO 144

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	T P04
0.0	6.0	7	13.40					
1.0			13.30	0.010	0.2	164	10.22	0.017
10.0			13.26	0.010	0.5	164	10.23	0.018
20.0			13.28	0.007	0.6	165	10.23	0.018
50.0			4.54	0.005	1.5	201	12.18	0.017
58.0								0.014
68.0			4.45	0.029		202	11.97	

DEPTH	SR P04	NH3	TFNO3	R SI02	MF COL	MF FCO	SPC 20	SPC 35
0.0								
1.0	0.010	0.033	0.235	0.985	110E03	160E02	240E01	330E01
10.0	0.000	0.020	0.210	0.990	100E00	100E00	400E00	800E00
20.0	0.000	0.020	0.205	0.985				
50.0	0.000	0.020	0.255	1.360	120E01	200E00	400E00	500E00
58.0	0.000	0.020	0.270	1.400				
68.0					800E00	200E00	230E01	120E01

CRUISE 69 - 203, November 18 - December 6

C-REF-NO 203
 CONS. NO 001
 COUNTRY 18
 INSTITUTE 22

LAT 43-05-24N
 LON 082-24-18W

YEAR 1969
 MONTH 11
 DAY 22
 TIME 1936

NO. DEPTHS 03
 SOUNDING 0110
 BT SLIDE NO 001

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	4.0	7	7.20					3.9
1.0			7.21		0.8	201	11.18	
9.0			7.20	0.006	1.7	195	11.29	

C-REF-NO 203
 CONS. NO 002
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 22
 TIME 2113

NO. DEPTHS 03
 SOUNDING 0235
 BT SLIDE NO 002

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	6.0	7	7.60					3.9
1.0			7.61		0.4	199	11.56	
21.5			7.62	0.016	0.2	200	11.61	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	77.2	14.9	5.8	91.3	25.000	7.000	1.000	3.700
21.5	76.9	14.7	5.8	95.4	25.000	8.000	0.950	3.800

DEPTH	HCQ3
0.0	
1.0	94.1
21.5	93.7

C-REF-NO 203
 CONS. NO 003
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 22
 TIME 2259

NO. DEPTHS 03
 SOUNDING 0100
 BT SLIDE NO 003

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0			6.60					5.0
1.0			6.52	0.014	0.9	186	11.70	
8.0			6.50	0.057	1.0	185	11.62	

C-REF-NO 203
 CONS. NO 004
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 22
 TIME 2240

NO. DEPTHS 03
 SOUNDING 0100
 BT SLIDE NO 004

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0			5.80					5.2
1.0			5.77	0.025	2.9	176	12.29	
8.0			5.86	0.006	1.1	205	12.13	

C-REF-NO 203
 CONS. NO 005
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 23
 TIME 0213

NO. DEPTHS 03
 SOUNDING 0100
 BT SLIDE NO 005

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0			5.30					5.0
1.0			5.32	0.003	13.0	205	12.07	
8.0			5.33	0.005	17.0	202	12.27	

C-REF-NO 203
 CONS. NO 006
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 23
 TIME 0307

NO. DEPTHS 03
 SOUNDING 0280
 BT SLIDE NO 006

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0			7.40					3.9
1.0			7.38	0.004	0.3	200	11.56	
25.0			7.39	0.007	0.6	199	11.50	

C-REF-NO 203
 CONS. NO 013
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 23
 TIME 1347

NO. DEPTHS 03
 SOUNDING 0100
 BT SLIDE NO 013

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0	1.0	7	5.60					4.1
1.0			5.60	0.006	4.3	203	12.18	
8.0			5.61	0.006	4.2	203	12.17	

C-REF-NO 203
 CONS. NO 014
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 23
 TIME 1513

NO. DEPTHS 03
 SOUNDING 0110
 BT SLIDE NO 014

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0	1.2	8	5.50					3.6
1.0			5.41	0.002	6.5	207	12.18	
9.0			5.42	0.005	5.2	207	12.25	

C-REF-NO 203
 CONS. NO 015
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 23
 TIME 1636

NO. DEPTHS 05
 SOUNDING 0850
 BT SLIDE NO 015

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0	3.5	6	7.40					3.1
1.0			7.32	0.003	0.0	196	11.32	
25.0			7.33	0.006	0.1	201	11.33	
50.0			7.33	0.009	0.0	201	11.30	
83.0			7.15	0.002	0.2	201	11.32	

C-REF-NO 203
 CONS. NO 016
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 23
 TIME 1820

NO. DEPTHS 05
 SOUNDING 0680
 BT SLIDE NO 016

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0	5.0	5	6.90					3.7
1.0			6.86	0.002	0.2	198	11.40	
25.0			6.87	0.000	0.3	204	11.43	
50.0			6.60	0.002	0.5	206	11.53	
66.0			6.52	0.008	0.6	205	11.45	

C-REF-NO 203
CONS. NO 017
COUNTRY 18
INSTITUTE 22

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

YEAR 1969
MONTH 11
DAY 23
TIME 1958

NO. DEPTHS 03
SOUNDING 0145
BT SLIDE NO 017

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	2.0	8	5.20					11.1
1.0			5.25	0.007	1.5	211	12.16	
12.0			5.27	0.002	1.6	215	12.26	

C-REF-NO 203
CONS. NO 018
COUNTRY 18
INSTITUTE 22

LAT 43-56-30N
LONG 082-40-12W

YEAR 1969
MONTH 11
DAY 23
TIME 2134

NO. DEPTHS 03
SOUNDING 0140
BT SLIDE NO 018

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	1.5	10	3.60					17.2
1.0			3.44	0.012	5.5	226	12.30	
12.0			3.46	0.002	4.5	229	12.64	

C-REF-NO 203
CONS. NO 019
COUNTRY 18
INSTITUTE 22

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

YEAR 1969
MONTH 11
DAY 23
TIME 2314

NO. DEPTHS 05
SOUNDING 0670
BT SLIDE NO 019

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			6.50					
1.0			6.68	0.008	0.8	206	11.50	
24.0			6.69	0.013	0.5	207	11.60	
48.0			6.27	0.000	0.6	206	11.70	
63.0			6.15	0.005	0.5	207	11.90	

C-REF-NO 203
 CONS. NO 020
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 24
 TIME 0046

NO. DEPTHS 05
 SOUNDING 0930
 BT SLIDE NO 020

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			7.10					3.5
1.0			7.38	0.001	0.1	203	11.48	
25.0			7.40	0.002	0.1	204	11.50	
50.0			7.38	0.004	0.2	204	11.56	
91.0			5.49	0.016	0.7	203	11.14	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	77.0	14.3	5.6	93.3	25.000	7.500	0.970	3.800
25.0								
50.0	77.3	14.5	5.6	93.3	25.000	7.500	0.960	3.600
91.0	77.7	14.3	5.4	93.3	25.000	7.500	1.020	3.500

DEPTH	HC03
0.0	
1.0	93.9
25.0	
50.0	94.2
91.0	94.7

C-REF-NO 203
 CONS. NO 021
 COUNTRY 18
 INSTITUTE 22

LAV 44-08-42N
 LOM 081-53-12W

YEAR 1969
 MONTH 11
 DAY 24
 TIME 0231

NO. DEPTHS 04
 SOUNDING 0290
 BT SLIDE NO 021

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			7.40					4.0
1.0			7.37	0.000	0.6	203	11.65	
25.0			7.34	0.001	0.8	203	11.60	
27.0			7.31	0.007	0.7	202	11.65	

C-REF-NO 203
 CONS. NO 022
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 24
 TIME 0354

NO. DEPTHS 03
 SOUNDING 0170
 BT SLIDE NO 022

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.90					3.4
1.0			5.77	0.002	1.3	204	12.15	
15.0			5.62	0.000	2.0	206	12.18	

C-REF-NO 203
 CONS. NO 023
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 24
 TIME 0556

NO. DEPTHS 03
 SOUNDING 0240
 BT SLIDE NO 023

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			6.20					3.5
1.0			6.20	0.004	1.0	205	11.81	
22.0			5.65	0.003	1.5	207	11.96	

C-REF-NO 203
 CONS. NO 024
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 24
 TIME 0729

NO. DEPTHS 05
 SOUNDING 1270
 BT SLIDE NO 024

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			6.90					2.8
1.0			6.77	0.007	0.2	198	11.83	
25.0			6.57	0.002	0.2	198	11.70	
50.0			6.53	0.007	0.2	198	11.68	
123.0			4.71	0.004	9.5	201	11.85	

C-REF-NO 203
 CONS. NO 025
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 24
 TIME 0915

NO. DEPTHS 04
 SOUNDING 0450
 BT SLIDE NO 025

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			6.90					3.1
1.0			7.11	0.010	0.2	205	11.66	
25.0			6.47	0.006	0.2	200	11.78	
43.0			6.35	0.006	0.1	198	11.83	

C-REF-NO 203
 CONS. NO 026
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 24
 TIME 1047

NO. DEPTHS 05
 SOUNDING 0900
 BT SLIDE NO 026

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			7.40					2.8
1.0			7.43	0.003	0.0	199	11.12	
25.0			7.36	0.008	0.0	199	11.47	
50.0			7.23	0.002	0.0	199	11.71	
88.0			4.96	0.006	0.2	202	11.57	

C-REF-NO 203
 CONS. NO 027
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 24
 TIME 1229

NO. DEPTHS 04
 SOUNDING 0520
 BT SLIDE NO 027

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.90					2.5
1.0			5.93	0.001	0.1	202	11.97	
25.0			5.94	0.000	0.0	201	11.98	
50.0			5.93	0.011	0.1	200	11.98	

C-REF-NO 203
 CONS. NO 028
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 24
 TIME 1404

NO. DEPTHS 04
 SOUNDING 0490
 BT SLIDE NO 028

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	7.0	5	5.90					2.5
1.0			5.88	0.006	0.2	199	11.97	
25.0			5.92	0.001	0.2	200	11.97	
47.0			5.90	0.009	0.2	198	11.95	

C-REF-NO 203
 CONS. NO 029
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 24
 TIME 1533

NO. DEPTHS 03
 SOUNDING 0120
 BT SLIDE NO 029

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	0.8	10	2.70					12.6
1.0			2.69	0.007	4.2	311	13.17	
10.0			2.40	0.008	5.8	329	13.24	

C-REF-NO 203
 CONS. NO 030
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 24
 TIME 1705

NO. DEPTHS 03
 SOUNDING 0110
 BT SLIDE NO 030

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	2.8	10	3.50					7.4
1.0			3.45	0.004	0.6	251	12.80	
9.0			3.36	0.000	0.8	255	12.82	

C-REF-NO 203
 CONS. NO 031
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 24
 TIME 1912

NO. DEPTHS 03
 SOUNDING 0128
 BT SLIDE NO 031

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	3.5	8	4.30					5.9
1.0			4.32	0.002	1.0	203	12.57	
10.0			4.30	0.002	1.0	207	12.21	

C-REF-NO 203
 CONS. NO 032
 COUNTRY 18
 INSTITUTE 22

LAT 43-50-48N
 LON 083-41-54W

YEAR 1969
 MONTH 11
 DAY 24
 TIME 2030

NO. DEPTHS 03
 SOUNDING 0091
 BT SLIDE NO 032

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	1.9	10	3.50					7.7
1.0			3.36	0.003	2.0	263	12.88	
7.0			3.36	0.009	5.0	264	13.03	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	86.3	18.6	13.8	118.0	33.000	8.700	1.200	6.500
7.0	85.0	19.4	13.9	105.0	29.000	8.000	1.200	7.200

DEPTH	HCQ3
0.0	
1.0	105.2
7.0	103.6

C-REF-NO 203
 CONS. NO 033
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 24
 TIME 2316

NO. DEPTHS 03
 SOUNDING 0230
 BT SLIDE NO 033

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.80					3.5
1.0			5.89	0.004	1.1	203	11.75	
21.0			5.90	0.006	0.7	199	11.80	

C-REF-NO 203
 CONS. NO 034
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 25
 TIME 0042

NO. DEPTHS 04
 SOUNDING 0480
 BT SLIDE NO 034

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			6.20					3.0
1.0			6.35	0.002	0.1	197	11.86	
25.0			6.35	0.009	0.1	200	11.86	
46.0			6.36	0.006	0.2	197	11.84	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	76.6	14.5	5.1	88.8	24.000	7.000	1.050	3.500
25.0	77.3	14.5	5.1	88.8	24.000	7.000	0.980	3.300
46.0	76.8	15.2	5.1	93.3	25.000	7.500	0.990	3.400

DEPTH	HCO3
0.0	
1.0	93.4
25.0	94.2
46.0	93.6

C-REF-NO 203
 CONS. NO 035
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 25
 TIME 0217

NO. DEPTHS 05
 SOUNDING 0700
 BT SLIDE NO 035

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLDRA
0.0			6.00					2.9
1.0			5.95	0.003	0.1	198	11.98	
25.0			5.95	0.009	0.1	198	12.00	
50.0			5.96	0.001	0.1	198	11.98	
68.0			5.94	0.003	13.0	198	11.90	

C-REF-NO 203
 CONS. NO 036
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 25
 TIME 0348

NO. DEPTHS 04
 SOUNDING 0520
 BT SLIDE NO 036

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLDRA
0.0			6.40					3.2
1.0			6.36	0.002	0.8		11.65	
25.0			6.36	0.008	0.1	201	11.90	
50.0			5.49	0.001	0.6	198	12.15	

C-REF-NO 203
 CONS. NO 037
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 26
 TIME 1541

NO. DEPTHS 03
 SOUNDING 0250
 BT SLIDE NO 037

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLDRA
0.0	3.0	5	5.20					3.0
1.0			5.25	0.005	0.3	200	12.43	
22.0			5.22	0.003	0.4	202	12.40	

C-REF-NO 203
 CONS. NO 038
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 26
 TIME 1705

NO. DEPTHS 05
 SOUNDING 0680
 BT SLIDE NO 038

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLDRA
0.0	2.0	4	6.40					3.1
1.0			6.36	0.003	0.1	198	11.75	
25.0			6.36	0.000	0.1	196	11.73	
50.0			6.37	0.004	0.1	196	11.71	
65.0			6.36	0.001	0.2	198	11.71	

C-REF-NO 203
 CONS. NO 039
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 26
 TIME 1831

NO. DEPTHS 05
 SOUNDING 0640
 BT SLIDE NO 039

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	6.0	6	6.00					2.7
1.0			6.02	0.002	0.0	197	11.90	
25.0			5.98	0.006	0.0	197	11.92	
50.0			5.92	0.007	0.1	199	12.10	
61.0			5.90	0.002	0.1	198	11.85	

C-REF-NO 203
 CONS. NO 040
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 26
 TIME 2022

NO. DEPTHS 06
 SOUNDING 0935
 BT SLIDE NO 040

DEPTH	SECCMI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	6.0	5	5.70					2.5
1.0			5.68	0.004	0.1	200	12.16	
25.0			5.67	0.010	0.2	199	12.14	
45.0								
50.0			5.68	0.003	0.2	199	12.14	
90.0			5.67	0.001	0.3	201	12.09	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	77.3	14.7	5.2	95.8	26.000	7.500	1.020	3.300
25.0								
45.0	77.5	14.7	5.2	91.3	25.000	7.000	0.980	3.300
50.0								
90.0	77.0	14.7	5.2	95.8	26.000	7.500	1.010	3.800

DEPTH	HC03
0.0	
1.0	94.2
25.0	
45.0	94.5
50.0	
90.0	93.9

C-REF-NO 203
 CONS. NO 041
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 26
 TIME 2206

NO. DEPTHS 05
 SOUNDING 0930
 BT SLIDE NO 041

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0			5.60					2.2
1.0			5.93	0.003	0.1	199	11.90	
25.0			5.88	0.008	0.2	213	11.88	
50.0			5.79	0.000	0.0	200	11.88	
91.0			5.70	0.007	0.1	196	11.88	

C-REF-NO 203
 CONS. NO 042
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 26
 TIME 2358

NO. DEPTHS 05
 SOUNDING 1270
 BT SLIDE NO 042

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0			6.40					2.4
1.0			6.49	0.008	0.0	201	12.03	
25.0			6.48	0.007	0.1	201	12.10	
50.0			4.77	0.002	0.1	202	12.18	
124.0			4.13	0.002	0.2	203	12.35	

C-REF-NO 203
 CONS. NO 043
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 27
 TIME 0139

NO. DEPTHS 05
 SOUNDING 0620
 BT SLIDE NO 043

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0			7.00					3.3
1.0			6.89		0.3	200	11.70	
25.0			6.90	0.001	0.2	201	11.68	
50.0			6.91	0.001	0.5	200	11.70	
60.0			6.91	0.009	0.5	200	11.60	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	78.0	14.8	5.5	92.1	25.000	7.200	1.010	3.500
25.0	78.0	15.0	5.5	93.3	25.000	7.500	1.060	3.500
50.0								
60.0	78.0	15.2	5.5	98.3	27.000	7.500	0.960	3.400

DEPTH	HCO3
0.0	
1.0	95.1
25.0	95.1
50.0	
60.0	95.1

C-REF-NO 203
 CONS. NO 044
 COUNTRY 18
 INSTITUTE 22

LAT 44-42-42N
 LON 081-19-42W
 YEAR 1969
 MONTH 11
 DAY 27
 TIME 0321

NO. DEPTHS 03
 SOUNDING 0180
 BT SLIDE NO 044

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.80					3.9
1.0			5.74	0.001	0.6	206	12.15	
16.0			5.80		0.8	206	12.18	

C-REF-NO 203
 CONS. NO 045
 COUNTRY 18
 INSTITUTE 22

LAT 44-54-00N
 LON 081-25-30W
 YEAR 1969
 MONTH 11
 DAY 27
 TIME 0450

NO. DEPTHS 03
 SOUNDING 0180
 BT SLIDE NO 045

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.50					3.4
1.0			5.72	0.001	0.1	205	12.08	
16.0			5.71	0.004	0.2	204	12.01	

C-REF-NO 203
 CONS. NO 046
 COUNTRY 18
 INSTITUTE 22

LAT 44-50-48N
 LON 081-38-06W
 YEAR 1969
 MONTH 11
 DAY 27
 TIME 0604

NO. DEPTHS 05
 SOUNDING 1040
 BT SLIDE NO 046

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			7.40					2.7
1.0			7.27	0.005	0.1	200	11.85	
25.0			7.26	0.019	0.1	198	11.51	
50.0			7.23	0.001	0.1	201	11.27	
101.0			7.16	0.010	0.1	198	11.26	

C-REF-NO 203
 CONS. NO 047
 COUNTRY 18
 INSTITUTE 22

LAT 44-46-48N
 LON 081-53-48W
 YEAR 1969
 MONTH 11
 DAY 27
 TIME 0839

NO. DEPTHS 06
 SOUNDING 1310
 BT SLIDE NO 047

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			6.80					2.2
1.0			6.64	0.005	0.0	206	11.86	
25.0			6.68	0.004	0.1	203	12.04	
50.0			6.67	0.001	0.2	201	11.77	
108.0			5.17	0.011	0.2	205	12.19	
128.0			4.75	0.014	3.0	203	12.05	

C-REF-NO 203
 CONS. NO 048
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 27
 TIME 0928

NO. DEPTHS 06
 SOUNDING 1830
 BT SLIDE NO 048

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.40					2.1
1.0			5.71	0.003	0.0	199	12.18	
25.0			5.72	0.003	0.0	201	12.19	
50.0			5.70	0.003	0.0	198	12.13	
124.0			4.71		0.2	198	12.33	
180.0			4.10		0.4	200	12.30	

C-REF-NO 203
 CONS. NO 049
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 27
 TIME 1105

NO. DEPTHS 05
 SOUNDING 0660
 BT SLIDE NO 049

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.40					2.8
1.0			5.37	0.004	0.1	199	12.00	
25.0			5.41	0.004	0.1	200	12.13	
50.0			5.39	0.001	0.0	198	12.13	
64.0			5.36		0.0	200	12.03	

C-REF-NO 203
 CONS. NO 050
 COUNTRY 18
 INSTITUTE 22

LAT 44-38-24N
 LON 083-14-54W

YEAR 1969
 MONTH 11
 DAY 27
 TIME 1540

NO. DEPTHS 03
 SOUNDING 0110
 BT SLIDE NO 050

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	2.0	8	3.40					2.6
1.0			3.47	0.006	0.8	206	12.99	
9.0			3.49	0.002	0.9	205	12.97	

C-REF-NO 203
 CONS. NO 051
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 27
 TIME 1657

NO. DEPTHS 05
 SOUNDING 0550
 BT SLIDE NO 051

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	5.0	6	6.00					3.5
1.0			5.94	0.007	0.1	200	11.92	
25.0			5.96	0.001	0.1	197	11.95	
50.0			5.93	0.045	0.1	196	11.90	
52.0			5.96	0.004	0.1	199	11.94	

C-REF-NO 203
 CONS. NO 052
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 27
 TIME 1855

NO. DEPTHS 05
 SOUNDING 0700
 BT SLIDE NO 052

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0	5.0	6	5.90					2.2
1.0			5.88	0.008	0.1	201	11.97	
25.0			5.89	0.006	0.0	197	11.95	
50.0			5.90	0.011	0.0	199	11.87	
67.0			5.90	0.008	4.0	198	11.85	

C-REF-NO 203
 CONS. NO 053
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 27
 TIME 2036

NO. DEPTHS 04
 SOUNDING 0340
 BT SLIDE NO 053

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0	6.0	5	5.20					1.8
1.0			5.37	0.010	0.3	206	12.43	
25.0			5.39	0.001	0.1	200	12.21	
31.0			5.40	0.008	0.1	200	12.10	

C-REF-NO 203
 CONS. NO 054
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 27
 TIME 2223

NO. DEPTHS 06
 SOUNDING 1440
 BT SLIDE NO 054

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0			5.50					2.3
1.0			6.08	0.004	0.0	202	11.78	
25.0			6.11	0.003	0.1	201	11.77	
50.0			6.08	0.018	0.0	200	11.78	
125.0			4.03	0.007	0.1	202	11.83	
142.0			4.03	0.005	0.1	204	11.96	

C-REF-NO 203
 CONS. NO 055
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 27
 TIME 2355

NO. DEPTHS 05
 SOUNDING 1000
 BT SLIDE NO 055

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0			6.70					2.6
1.0			6.98	0.001	0.0	200	11.66	
25.0			6.97	0.016	0.0	202	11.74	
50.0			6.89	0.003	0.1	199	12.33	
98.0			4.96	0.004	0.1	202	12.18	

C-REF-NO 203
 CONS. NO 056
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 28
 TIME 0125

NO. DEPTHS 06
 SOUNDING 1410
 BT SLIDE NO 056

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			7.20					2.3
1.0			7.18	0.004	0.1	205	11.65	
25.0			7.20	0.002	0.1	203	11.56	
50.0			7.20	0.013	0.2	203	11.61	
125.0			5.36	0.001	0.2	203	11.65	
131.0			5.16	0.006	0.9	202	11.73	

C-REF-NO 203
 CONS. NO 057
 COUNTRY 18
 INSTITUTE 22

LAT 45-05-00N
 LON 081-32-06W

YEAR 1969
 MONTH 11
 DAY 28
 TIME 0245

NO. DEPTHS 03
 SOUNDING 0200
 BT SLIDE NO 057

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.20					3.5
1.0			5.73	0.026	0.3	206	11.20	
18.0			5.44	0.002	0.4	205	12.39	

C-REF-NO 203
 CONS. NO 058
 COUNTRY 18
 INSTITUTE 22

LAT 45-13-18N
 LON 081-49-12W

YEAR 1969
 MONTH 11
 DAY 28
 TIME 0427

NO. DEPTHS 04
 SOUNDING 0440
 BT SLIDE NO 058

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			6.80					3.2
1.0			6.79	0.009	0.1	203	11.60	
25.0			6.78	0.007	0.2	203	11.66	
42.0			6.77	0.010	0.2	204	11.65	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	78.1	15.3	5.6	93.3	25.000	7.500	1.040	3.400
25.0	78.5	15.1	5.6	92.1	25.000	7.200	1.010	3.400
42.0	78.3	15.1	5.6	92.1	25.000	7.200	0.980	3.300

DEPTH	HC03
0.0	
1.0	95.2
25.0	95.7
42.0	95.4

C-REF-NO 203
 CONS. NO 059
 COUNTRY 18
 INSTITUTE 22

LAT 45-13-18N
 LON 081-49-12W

YEAR 1969
 MONTH 11
 DAY 29
 TIME 2126

NO. DEPTHS 04
 SOUNDING 0430
 BT SLIDE NO 059

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			6.40					
1.0			6.57	0.006	0.2	209	11.74	
25.0			6.61	0.003	0.1	215	11.84	
33.0			6.60	0.001	0.2	205	11.78	

C-REF-NO 203
 CONS. NO 060
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 29
 TIME 2326

NO. DEPTHS 05
 SOUNDING 1080
 BT SLIDE NO 060

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			6.90					2.4
1.0			7.12	0.003	0.2	206	11.58	
25.0			7.15	0.001	0.4	207	11.61	
49.0			7.15	0.001	0.1	205	11.56	
97.0			5.79	0.003	0.2	206	11.85	

C-REF-NO 203
 CONS. NO 061
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 30
 TIME 0106

NO. DEPTHS 05
 SOUNDING 1100
 BT SLIDE NO 061

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			6.10					
1.0			6.56	0.015	0.1	206	11.65	
24.0			6.58	0.007	0.2	206	11.81	
48.0			6.44	0.001	0.2	206	11.83	
97.0			4.24	0.010	0.4	206	12.22	

C-REF-NO 203
 CONS. NO 062
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 30
 TIME 0301

NO. DEPTHS 06
 SOUNDING 1750
 BT SLIDE NO 062

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.50					
1.0			5.56	0.002	0.1	199	12.57	
25.0			5.57	0.001	0.0	198	13.24	
50.0			5.58	0.001	0.1	199	12.15	
125.0			4.68	0.001	0.2	199	12.54	
165.0			4.08	0.001	0.6	199	12.45	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	78.0	15.1	5.3	93.3	25.000	7.500	1.010	4.000
25.0								
50.0	77.7	15.3	5.4	91.7	24.500	7.400	1.000	3.400
125.0								
165.0	77.9	15.1	5.4	92.9	25.000	7.400	1.000	5.600

DEPTH	HCO3
0.0	
1.0	95.1
25.0	
50.0	94.7
125.0	
165.0	95.0

C-REF-NO 203
 CONS. NO 063
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 30
 TIME 0509

NO. DEPTHS 05
 SOUNDING 0580
 BT SLIDE NO 063

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.50					2.6
1.0			5.61	0.008	0.1	191	11.94	
25.0			5.61	0.002	0.1	197	11.96	
50.0			5.63	0.003	0.1	199	11.94	
53.0			5.63	0.012	0.1	197	11.98	

C-REF-NO 203
 CONS. NO 064
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 30
 TIME 0737

NO. DEPTHS 04
 SOUNDING 0500
 BT SLIDE NO 064

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.40					2.3
1.0			5.42	0.010	0.1	192	11.95	
25.0			5.49	0.002	0.2	193	12.05	
48.0			5.49	0.004	0.2	192	12.01	

C-REF-NO 203
 CONS. NO 065
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 30
 TIME 0837

NO. DEPTHS 03
 SOUNDING 0250
 BT SLIDE NO 065

DEPTH	SECCMI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			4.30					3.9
1.0			4.65	0.007	0.3	185	12.78	
23.0			4.69	0.009	0.1	197	12.48	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	77.0	15.0	5.0	85.0	22.500	7.000	0.980	3.200
23.0	77.3	15.1	5.0	88.8	24.000	7.000	1.050	3.200

DEPTH	HCQ3
0.0	
1.0	93.9
23.0	94.2

C-REF-NO 203
 CONS. NO 066
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 30
 TIME 1016

NO. DEPTHS 03
 SOUNDING 0100
 BT SLIDE NO 066

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			2.80					4.2
1.0			3.62	0.005	0.2	200	12.61	
8.0			3.63	0.012	0.1	198	12.63	

C-REF-NO 203
 CONS. NO 067
 COUNTRY 18
 INSTITUTE 22

LAT 45-04-48N
 LON 083-14-48W

YEAR 1969
 MONTH 11
 DAY 30
 TIME 1237

NO. DEPTHS 03
 SOUNDING 0110
 BT SLIDE NO 067

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			4.20					3.5
1.0			4.67	0.003	0.4	198	12.45	
9.0			4.69	0.002	0.4	198	12.49	

C-REF-NO 203
 CONS. NO 068
 COUNTRY 18
 INSTITUTE 22

LAT 45-08-48N
 LON 082-59-00W

YEAR 1969
 MONTH 12
 DAY 02
 TIME 0158

NO. DEPTHS 05
 SOUNDING 1180
 BT SLIDE NO 068

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.30					2.5
1.0			5.27	0.009	0.3	197	12.24	
25.0			5.31	0.006	0.4	197	12.26	
50.0			5.31	0.003	0.3	197	12.28	
108.0			5.30	0.003	0.5	197	12.24	

C-REF-NO 203
 CONS. NO 069
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 12
 DAY 02
 TIME 0337

NO. DEPTHS 06
 SOUNDING 1880
 BT SLIDE NO 069

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.30					2.1
1.0			5.32	0.018	0.0	198	12.29	
25.0			5.36	0.004	0.1	198	12.38	
50.0			5.36	0.000	0.0	189	12.32	
125.0			4.77	0.003	0.3	199	12.42	
183.0			4.18	0.002	0.5	201	12.54	

C-REF-NO 203
 CONS. NO 070
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 12
 DAY 02
 TIME 0515

NO. DEPTHS 05
 SOUNDING 1060
 BT SLIDE NO 070

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.60					2.1
1.0			5.92	0.012	0.1		12.06	
25.0			5.97	0.001	0.0		12.08	
50.0			5.96	0.007	0.1		12.13	
101.0			4.91	0.010	0.2		12.31	

C-REF-NO 203
 CONS. NO 071
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 12
 DAY 02
 TIME 0651

NO. DEPTHS 05
 SOUNDING 0960
 BT SLIDE NO 071

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			6.10					2.4
1.0			6.23	0.008	0.0	200	11.88	
25.0			6.29	0.002	0.0	201	11.76	
50.0			6.28	0.001	0.1	201	11.74	
91.0			5.40	0.001	0.1	200	11.76	

C-REF-NO 203
 CONS. NO 072
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 12
 DAY 02
 TIME 0836

NO. DEPTHS 04
 SOUNDING 0500
 BT SLIDE NO 072

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0			5.60					4.0
1.0			6.18	0.007	0.1	196	11.62	
25.0			6.13	0.006	0.2	192	11.69	
45.0			5.74	0.000	0.2	194	11.85	

C-REF-NO 203
 CONS. NO 073
 COUNTRY 18
 INSTITUTE 22

LAT 45-32-06N
 LON 082-02-42W

YEAR 1969
 MONTH 12
 DAY 02
 TIME 0952

NO. DEPTHS 03
 SOUNDING 0280
 BT SLIDE NO 073

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0			5.10					2.7
1.0			5.02	0.005	0.1	194	12.09	
26.0			4.16	0.015	0.2	197	12.35	

C-REF-NO 203
 CONS. NO 074
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 12
 DAY 02
 TIME 1118

NO. DEPTHS 05
 SOUNDING 0630
 BT SLIDE NO 074

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0			5.20					1.9
1.0			6.57	0.001	0.1	190	11.48	
25.0			6.18	0.008	0.1	192	11.98	
50.0			5.92	0.002	0.0	199	11.90	
61.0			5.87	0.003	0.1	200	11.75	

C-REF-NO 203
 CONS. NO 075
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 12
 DAY 02
 TIME 1307

NO. DEPTHS 05
 SOUNDING 1140
 BT SLIDE NO 075

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0			6.20					2.3
1.0			6.30	0.002	0.1	202	11.88	
25.0			6.32	0.003			12.04	
50.0			6.32	0.004			11.73	
104.0			4.67	0.010	0.2	201	12.18	

C-REF-NO 203
 CONS. NO 076
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 12
 DAY 02
 TIME 1715

NO. DEPTHS 03
 SOUNDING 1320
 BT SLIDE NO 076

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	3.0	4	5.60					1.3
1.0			5.61	0.010	0.1	192	12.33	
25.0			5.63	0.011	0.1	199	12.05	

C-REF-NO 203
 CONS. NO 077
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 12
 DAY 02
 TIME 1900

NO. DEPTHS 03
 SOUNDING 0200
 BT SLIDE NO 077

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	2.5	7	3.50					3.5
1.0			3.55	0.000	0.1	198	12.70	
17.0			3.65	0.005	0.6	203	12.02	

C-REF-NO 203
 CONS. NO 078
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 12
 DAY 03
 TIME 1446

NO. DEPTHS 04
 SOUNDING 0520
 BT SLIDE NO 078

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	2.5	6	3.40					2.6
1.0			4.25	0.000	0.2	190	12.40	
25.0			4.25	0.000	0.4	199	12.55	
47.0			4.21	0.006	0.6	201	12.50	

C-REF-NO 203
 CONS. NO 079
 COUNTRY 18
 INSTITUTE 22

LAT 45-48-48N
 LON 084-45-18W

YEAR 1969
 MONTH 12
 DAY 03
 TIME 1642

NO. DEPTHS 04
 SOUNDING 0320
 BT SLIDE NO 079

DEPTH	SECCMI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	2.0	8	3.00					3.3
1.0			3.47	0.000	0.4	230	12.70	
25.0			3.46	0.007	0.3	235	12.73	
27.0			3.47	0.017	0.3	236	12.71	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	105.0	17.2	6.2	123.0	31.000	11.000	1.120	3.700
25.0	90.8	17.0	6.2	112.0	29.000	9.500	1.180	3.800
27.0	91.9	17.3	6.2	102.0	26.000	9.000	1.080	3.700

DEPTH	HCQ3
0.0	
1.0	128.0
25.0	110.7
27.0	112.0

C-REF-NO 203
 CONS. NO 080
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 12
 DAY 03
 TIME 1833

NO. DEPTHS 03
 SOUNDING 0170
 BT SLIDE NO 080

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	2.5	7	3.00					3.5
1.0			3.49	0.002	0.4	220	12.71	
12.0			3.50	0.010	0.3	220	12.65	

C-REF-NO 203
 CONS. NO 081
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 12
 DAY 03
 TIME 2049

NO. DEPTHS 05
 SOUNDING 0640
 BT SLIDE NO 081

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0	3.5	6	4.10					2.2
1.0			4.21	0.005	0.2	192	12.24	
25.0			4.33	0.011	0.1	181	12.30	
50.0			4.35	0.007	0.2	194	12.21	
59.0			4.34	0.006	0.2	193	12.19	

C-REF-NO 203
 CONS. NO 082
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 12
 DAY 03
 TIME 2232

NO. DEPTHS 03
 SOUNDING 0220
 BT SLIDE NO 082

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0			3.80					3.4
1.0			3.60	0.002	0.2	197	12.48	
20.0			3.63	0.008	0.3	197	12.47	

C-REF-NO 203
 CONS. NO 083
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 12
 DAY 04
 TIME 0140

NO. DEPTHS 03
 SOUNDING 0200
 BT SLIDE NO 083

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0			3.60					4.2
1.0			3.40	0.010	0.4	153	12.81	
17.0			3.42	0.009	0.5	154	12.86	

C-REF-NO 203
 CONS. NO 084
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 12
 DAY 04
 TIME 0346

NO. DEPTHS 05
 SOUNDING 0600
 BT SLIDE NO 084

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0			5.10					3.2
1.0			5.08	0.020	0.2	171	12.29	
25.0			5.11	0.011	0.4	172	12.34	
50.0			5.12	0.002	0.4	171	12.44	
55.0			5.12	0.004	0.7	183	12.46	

C-REF-NO 203
 CONS. NO 085
 COUNTRY 18
 INSTITUTE 22

LAT 45-55-06N
 LON 083-30-18W
 YEAR 1969
 MONTH 12
 DAY 04
 TIME 0508

NO. DEPTHS 04
 SOUNDING 0340
 BT SLIDE NO 085

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			3.40					2.8
1.0			3.34	0.007	0.4	188	12.71	
25.0			3.39	0.013	0.4	188	12.86	
30.0			3.41	0.006	0.6	196	12.94	

C-REF-NO 203
 CONS. NO 086
 COUNTRY 18
 INSTITUTE 22

LAT 45-40-30N
 LON 084-11-12W
 YEAR 1969
 MONTH 12
 DAY 04
 TIME 1323

NO. DEPTHS 04
 SOUNDING 0450
 BT SLIDE NO 086

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	3.5	6	4.60					3.0
1.0			4.54	0.026	0.6	199	12.46	
25.0			4.57	0.007	0.9	198	12.46	
40.0			4.58	0.010	0.5	198	12.39	

C-REF-NO 203
 CONS. NO 087
 COUNTRY 18
 INSTITUTE 22

LAT 45-31-00N
 LON 084-06-00W
 YEAR 1969
 MONTH 12
 DAY 04
 TIME 1447

NO. DEPTHS 03
 SOUNDING 0180
 BT SLIDE NO 087

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	3.0	7	3.10					3.8
1.0			2.98	0.001	0.6	207	13.02	
14.0			2.98	0.045	0.9	205	13.02	

C-REF-NO 203
 CONS. NO 088
 COUNTRY 18
 INSTITUTE 22

LAT 45-33-42N
 LON 083-48-54W
 YEAR 1969
 MONTH 12
 DAY 04
 TIME 1616

NO. DEPTHS 05
 SOUNDING 0800
 BT SLIDE NO 088

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	3.5	6	4.70					2.6
1.0			4.64	0.001	0.2	192	12.55	
25.0			4.66	0.006	0.2	195	12.55	
50.0			4.64	0.004	0.2	198	12.52	
75.0			4.64	0.006	1.2	196	12.47	

C-REF-NO 203
 CONS. NO 089
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 12
 DAY 04
 TIME 1802

NO. DEPTHS 05
 SOUNDING 1140
 BT SLIDE NO 089

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	3.0	8	4.40					1.9
1.0			4.36	0.012	0.1	195	12.68	
25.0			4.38	0.010	0.2	198	12.57	
50.0			4.38	0.004	0.2	194	12.88	
109.0			4.38	0.003	0.2	198	12.66	

C-REF-NO 203
 CONS. NO 090
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 12
 DAY 04
 TIME 1939

NO. DEPTHS 05
 SOUNDING 0780
 BT SLIDE NO 090

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	3.0	6	4.30					2.3
1.0			4.17	0.004	0.3	187	12.45	
25.0			4.16	0.014	0.3	227	12.45	
50.0			4.18	0.006	0.2	191	12.42	
73.0			4.18	0.001	0.3	192	12.50	

C-REF-NO 203
 CONS. NO 091
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 12
 DAY 04
 TIME 2111

NO. DEPTHS 05
 SOUNDING 1200
 BT SLIDE NO 091

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	8.0	5	4.90					1.4
1.0			4.70	0.003	0.1	198	12.05	
25.0			4.70	0.005	0.1	198	12.03	
50.0			4.70	0.006	0.1	198	12.03	
114.0			4.72	0.002	0.2	196	12.09	

C-REF-NO 203
 CONS. NO 092
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 12
 DAY 04
 TIME 2253

NO. DEPTHS 05
 SOUNDING 0950
 BT SLIDE NO 092

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.20					2.1
1.0			5.19	0.009	0.2	198	12.03	
25.0			5.21	0.002	0.1	196	12.14	
50.0			5.23	0.000	0.2	196	11.92	
90.0			5.23	0.001	0.2	197	11.84	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	77.2	15.0	5.2	95.4	25.000	8.000	1.000	3.200
25.0								
50.0	77.0	14.9	5.2	95.4	25.000	8.000	1.000	3.200
90.0	78.3	15.0	5.2	99.3	27.500	7.500	1.090	3.100

DEPTH	HCO3
0.0	
1.0	94.1
25.0	
50.0	93.9
90.0	95.4

C-REF-NO 203
 CONS. NO 093
 COUNTRY 18
 INSTITUTE 22

LAT 45-46-18N
 LON 083-01-00W

YEAR 1969
 MONTH 12
 DAY 05
 TIME 0032

NO. DEPTHS 03
 SOUNDING 0140
 BT SLIDE NO 093

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			4.80					3.0
1.0			4.32	0.009	0.2	183	12.63	
12.0			4.35	0.013	0.3	183	12.56	

C-REF-NO 203
 CONS. NO 094
 COUNTRY 18
 INSTITUTE 22

LAT 45-45-59N
 LON 082-46-48W

YEAR 1969
 MONTH 12
 DAY 05
 TIME 0203

NO. DEPTHS 03
 SOUNDING 0200
 BT SLIDE NO 094

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.60					2.3
1.0			5.59	0.001	0.1	198	12.04	
18.0			5.61	0.008	0.2	198	12.06	

C-REF-NO 203
 CONS. NO 095
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 12
 DAY 05
 TIME 0306

NO. DEPTHS 05
 SOUNDING 0640
 BT SLIDE NO 095

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			6.10					3.0
1.0			6.13	0.005	0.1	194	11.88	
25.0			6.13	0.001	0.1	200	11.88	
50.0			6.10	0.004	0.1	200	11.91	
62.0			5.86		0.2	200	11.96	

C-REF-NO 203
 CONS. NO 096
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 12
 DAY 05
 TIME 0444

NO. DEPTHS 04
 SOUNDING 0290
 BT SLIDE NO 096

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.70					2.2
1.0			5.80	0.004	0.2	193	12.04	
25.0			5.83	0.009	0.1	204	12.04	
27.0			5.83	0.003	0.1	200	11.99	

C-REF-NO 203
 CONS. NO 097
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 12
 DAY 05
 TIME 0618

NO. DEPTHS 05
 SOUNDING 1220
 BT SLIDE NO 097

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.00					1.9
1.0			4.89	0.002	0.4	200	12.38	
25.0			4.91	0.012	0.2	194	12.37	
50.0			4.91	0.001	0.2	201	12.50	
117.0			4.84	0.008	0.2	198	12.50	

CRUISE 69 - 302, November 12 - 25

C-REF-NO 302
 CONS. NO 001
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 15
 TIME 1330

NO. DEPTHS 03
 SOUNDING 0130
 BT SLIDE NO 001

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	6.0	8	8.10					0.0
1.0			8.30	0.003	0.8	111	11.21	
11.0			8.28	0.238	0.4	110	11.11	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	41.6	2.5	1.2	43.6	13.000	2.700	0.440	1.100
11.0	41.5	2.4	1.2	43.6	13.000	2.700	0.440	1.100

DEPTH	HC03
0.0	
1.0	50.7
11.0	50.6

C-REF-NO 302
 CONS. NO 002
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 15
 TIME 1502

NO. DEPTHS 03
 SOUNDING 0160
 BT SLIDE NO 002

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	7.0	7	7.90					0.4
1.0			7.97		0.8	111	11.23	
14.0			7.99		0.4	112	11.31	

C-REF-NO 302
 CONS. NO 003
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 15
 TIME 1654

NO. DEPTHS 03
 SOUNDING 0230
 BT SLIDE NO 003

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	7.0	7	7.80					0.0
1.0			7.87	0.004	0.8	110	11.29	
21.0			7.70		0.8	108	11.38	

C-REF-NO 302
 CONS. NO 004
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 15
 TIME 1811

NO. DEPTHS 05
 SOUNDING 0550
 BT SLIDE NO 004

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	7.0	5	7.50					0.0
1.0			7.62	0.007	0.2	109	11.44	
25.0			7.61		0.3	107	11.44	
50.0			7.61	0.025	0.2	107	11.44	
54.0			7.59	0.021	0.4	107	11.44	

C-REF-NO 302
 CONS. NO 005
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 15
 TIME 2029

NO. DEPTHS 06
 SOUNDING 2000
 BT SLIDE NO 005

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	7.0	6	6.30					1.1
1.0			6.37		0.3	108	11.54	
25.0			6.38		0.3	107	11.54	
50.0			6.33	0.022	0.4	106	11.56	
125.0			3.92	0.008	0.5	108		
198.0			3.83	0.002	0.4	107	12.92	

C-REF-NO 302
 CONS. NO 006
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 15
 TIME 2239

NO. DEPTHS 05
 SOUNDING 0650
 BT SLIDE NO 006

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			8.00					0.7
1.0			8.30	0.008	0.3	109	11.11	
25.0			8.32	0.009	0.4	106	11.11	
50.0			8.33		0.3	106	11.11	
63.0			8.29	0.015	0.4	106	11.12	

C-REF-NO 302
 CONS. NO 007
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 16
 TIME 0157

NO. DEPTHS 06
 SOUNDING 2050
 BT SLIDE NO 007

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			6.90					0.3
1.0			6.93	0.017	0.6	108	11.54	
24.0			6.96	0.014	0.5	108	11.69	
45.0			6.02		0.8	110	11.76	
121.0			3.99	0.000	0.9	110	12.78	
195.0			3.85	0.018	1.3	106	12.86	

C-REF-NO 302
 CONS. NO 008
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 16
 TIME 0515

NO. DEPTHS 05
 SOUNDING 1040
 BT SLIDE NO 008

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			8.00					0.0
1.0			8.12	0.015	0.4	112	11.13	
25.0			8.22	0.011	1.3	111	11.13	
50.0			8.23	0.000	0.5	110	11.13	
102.0			5.30	0.006	0.6	111	12.31	

C-REF-NO 302
 CONS. NO 009
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 16
 TIME 0718

NO. DEPTHS 05
 SOUNDING 1220
 BT SLIDE NO 009

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			8.00					0.0
1.0			8.09	0.006	1.0	112	11.13	
25.0			8.13	0.015	1.3	109	11.13	
50.0			7.41		1.1	106	11.13	
120.0			5.23	0.014	0.7	108	12.68	

C-REF-NO 302
 CONS. NO 01C
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 16
 TIME 0950

NO. DEPTHS 06
 SOUNDING 0850
 BT SLIDE NO 010

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0			7.20					0.6
1.0			7.25	0.009	0.6	107	11.62	
25.0			7.28	0.008	0.4	106	11.60	
50.0			7.23	0.004	0.3	105	11.62	
74.0								
83.0			6.14	0.008	0.2	105	11.93	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	42.3	1.9	1.2	43.3	12.900	2.700	0.400	1.100
25.0	42.0	2.8	1.1	43.3	12.900	2.700	0.500	1.100
50.0								
74.0	42.1	2.1	1.1	43.3	12.900	2.700	0.400	1.100
83.0								

DEPTH	HCO3
0.0	
1.0	51.6
25.0	51.2
50.0	
74.0	51.3
83.0	

C-REF-NO 302
 CONS. NO 011
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 16
 TIME 1302

NO. DEPTHS 06
 SOUNDING 2000
 BT SLIDE NO 011

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0			6.80					0.3
1.0			6.80	0.003	0.3	109	11.54	
25.0			6.79	0.023	0.5	108	11.69	
50.0			6.78	0.004	0.4	108	11.60	
125.0			3.89		0.3	107	13.07	
198.0			3.77	0.006	0.4	107	12.70	

C-REF-NO 302
CONS. NO 012
COUNTRY 18
INSTITUTE 22

LAT 47-14-00N
LON 085-34-36W

YEAR 1969
MONTH 11
DAY 16
TIME 1452

NO. DEPTHS 06
SOUNDING 1340
BT SLIDE NO 012

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	7.0	5	5.30					0.3
1.0			5.56	0.008	0.2	107	12.00	
25.0			5.51	0.000	0.2	108	12.02	
50.0			5.46	0.031	0.2	106	11.93	
124.0			3.90	0.005	0.4	106	12.89	
131.0			3.90	0.004	0.4	107	12.89	

C-REF-NO 302
CONS. NO 013
COUNTRY 18
INSTITUTE 22

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

YEAR 1969
MONTH 11
DAY 16
TIME 1753

NO. DEPTHS 06
SOUNDING 1420
BT SLIDE NO 013

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	9.0	5	7.20					0.2
1.0			7.35	0.008	1.5	110	11.52	
25.0			7.32	0.008	1.6	108	11.52	
50.0			7.21	0.014	1.5	107	11.52	
125.0			6.60	0.001	1.3	108	11.67	
140.0			6.52	0.008	1.3	108	11.84	

C-REF-NO 302
CONS. NO 014
COUNTRY 18
INSTITUTE 22

LAT 46-40-54N
LON 085-42-42W

YEAR 1969
MONTH 11
DAY 16
TIME 1925

NO. DEPTHS 03
SOUNDING 0120
BT SLIDE NO 014

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	12.0	5	6.40					0.5
1.0			6.45	0.005	0.4	108	11.73	
10.0			6.43	0.002	0.4	106	11.73	

C-REF-NO 302
CONS. NO 015
COUNTRY 18
INSTITUTE 22

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

YEAR 1969
MONTH 11
DAY 16
TIME 2059

NO. DEPTHS 04
SOUNDING 0520
BT SLIDE NO 015

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			7.30					0.3
1.0			7.35	0.004	0.4	108	11.51	
25.0			7.36	0.005	0.5	107	11.52	
50.0			7.36	0.017	0.4	106	11.51	

C-REF-NO 302
 CONS. NO 016
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 16
 TIME 2315

NO. DEPTHS 06
 SOUNDING 1780
 BT SLIDE NO. 016

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLDRA
0.0			5.30					0.1
1.0			5.30	0.021	0.3	105	12.36	
25.0			5.30	0.004	0.2	105	12.36	
50.0			5.29	0.015	0.3	106	12.36	
125.0			4.17	0.014	0.4	105	12.83	
176.0			3.89	0.007	0.3	109	12.92	

C-REF-NO 302
 CONS. NO 017
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 17
 TIME 0123

NO. DEPTHS 06
 SOUNDING 1830
 BT SLIDE NO 017

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.20					0.4
1.0			5.27	0.023	0.5	107	12.35	
25.0			5.26	0.006	0.4	108	12.25	
50.0			5.29	0.002	0.3	106	12.35	
124.0			3.98	0.002	0.3	107	12.92	
180.0			3.84	0.002	0.4	107	12.52	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	42.1	2.1	1.1	45.0	13.400	2.800	0.430	1.100
25.0								
50.0	42.2	2.7	1.1	42.9	12.900	2.600	0.400	1.100
124.0								
180.0	42.2	2.3	1.1	43.6	13.000	2.700	0.530	1.100

DEPTH	HCO3
0.0	
1.0	51.3
25.0	
50.0	51.4
124.0	
180.0	51.4

C-REF-NO 302
 CONS. NO 018
 COUNTRY 18
 INSTITUTE 22

LAT 47-44-18N
 LON 086-14-54W
 YEAR 1969
 MONTH 11
 DAY 17
 TIME 0351

NO. DEPTHS 06
 SOUNDING 2500
 BT SLIDE NO 018

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.50					0.7
1.0			5.62	0.026	1.3	106	12.83	
25.0			5.61	0.010	1.6	107	12.89	
50.0			5.62	0.007	0.7	113	12.89	
120.0			4.15	0.012	0.9	106	12.89	
241.0			3.81	0.007	0.5	107	12.99	

C-REF-NO 302
 CONS. NO 019
 COUNTRY 18
 INSTITUTE 22

LAT 48-04-00N
 LON 086-20-36W
 YEAR 1969
 MONTH 11
 DAY 17
 TIME 0611

NO. DEPTHS 06
 SOUNDING 2060
 BT SLIDE NO 019

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			6.00					0.8
1.0			5.99	0.034	0.5	116	11.98	
24.0			6.01	0.001	0.4	109	11.97	
47.0			6.01	0.009	0.4	107	11.95	
117.0			3.94	0.006	0.5	107	12.91	
192.0			3.84	0.004	0.6	107	12.92	

C-REF-NO 302
 CONS. NO 020
 COUNTRY 18
 INSTITUTE 22

LAT 48-23-48N
 LON 086-26-36W
 YEAR 1969
 MONTH 11
 DAY 17
 TIME 0824

NO. DEPTHS 06
 SOUNDING 2320
 BT SLIDE NO 020

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			6.60					0.9
1.0			6.76	0.017	0.4	107	11.77	
20.0			6.75	0.002	0.3	107	11.73	
41.0			6.73	0.007	0.3	106	11.73	
102.0			3.96	0.001	0.3	109	12.95	
188.0			3.81	0.010	0.6	108	13.01	

C-REF-NO 302
 CONS. NO 021
 COUNTRY 18
 INSTITUTE 22

LAT 48-41-03N
 LON 086-32-24W

YEAR 1969
 MONTH 11
 DAY 17
 TIME 1028

NO. DEPTHS 04
 SOUNDING 0530
 BT SLIDE NO 021

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			7.30					0.6
1.0			7.42	0.005	0.3	106	11.46	
25.0			7.41	0.010	0.3	105	11.46	
51.0			7.41	0.017	0.4	108	11.46	

DEPTH	TC ALK	S S04	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	42.2	2.7	1.2	44.6	13.400	2.700	0.420	1.100
25.0	42.3	2.7	1.2	44.1	13.200	2.700	0.430	1.100
51.0	42.4	2.8	1.2	41.9	12.400	2.600	0.500	1.400

DEPTH	HC03
0.0	
1.0	51.4
25.0	51.6
51.0	51.7

C-REF-NO 302
 CONS. NO 022
 COUNTRY 18
 INSTITUTE 22

LAT 48-44-36N
 LON 086-48-00W

YEAR 1969
 MONTH 11
 DAY 17
 TIME 1201

NO. DEPTHS 04
 SOUNDING 0430
 BT SLIDE NO 022

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			7.00					0.5
1.0			7.06	0.012	0.2	105	11.54	
25.0			7.07	0.015	0.3	106	11.54	
41.0			7.08	0.015	0.4	106	11.54	

C-REF-NO 302
 CONS. NO 023
 COUNTRY 18
 INSTITUTE 22

LAT 48-45-42N
 LON 087-04-06W
 YEAR 1969
 MONTH 11
 DAY 17
 TIME 1326

NO. DEPTHS 05
 SOUNDING 1150
 BT SLIDE NO 023

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	8.0	5	6.90					0.3
1.0			7.04	0.020	0.3	105	11.46	
25.0			7.03	0.000	0.2	105	11.51	
50.0			7.05	0.001	0.3	105	11.49	
111.0			5.96	0.006	0.2	105	11.87	

C-REF-NO 302
 CONS. NO 024
 COUNTRY 18
 INSTITUTE 22

LAT 48-39-00N
 LON 087-05-00W
 YEAR 1969
 MONTH 11
 DAY 17
 TIME 1440

NO. DEPTHS 06
 SOUNDING 1710
 BT SLIDE NO 024

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	8.0	5	6.10					0.4
1.0			6.15	0.013	0.3	108	11.08	
25.0			6.14	0.008	0.3	106	11.09	
50.0			6.18	0.001	0.3	105	11.54	
124.0			5.32		0.3	105	12.18	
167.0			4.28	0.009	0.5	106	12.70	

C-REF-NO 302
 CONS. NO 025
 COUNTRY 18
 INSTITUTE 22

LAT 48-19-48N
 LON 086-56-18W
 YEAR 1969
 MONTH 11
 DAY 17
 TIME 1735

NO. DEPTHS 06
 SOUNDING 1920
 BT SLIDE NO 025

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	11.0	4	5.60					1.6
1.0			5.65	0.025	1.2	112	12.12	
25.0			5.64	0.008	1.4	110	11.80	
50.0			5.63	0.004	0.4	110	12.06	
125.0			3.84	0.000	0.5	108	12.91	
190.0			3.77	0.008	0.8	109	12.91	

C-REF-NO 302
 CONS. NO 026
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 17
 TIME 2010

NO. DEPTHS 06
 SOUNDING 2020
 BT SLIDE NO 026

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	11.0	5	5.20					1.2
1.0			5.23	0.001	0.4	106	12.33	
25.0			5.23	0.001	0.2	107	12.35	
50.0			5.23	0.008	0.4	106	12.35	
124.0			3.90	0.000	0.5	106	12.97	
199.0			3.76	0.000	0.4	106	12.86	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	42.5	2.7	1.1	41.5	12.500	2.500	0.430	1.250
25.0								
50.0								
124.0	42.3	2.7	1.1	44.1	13.200	2.700	0.430	1.200
199.0	42.3	2.5	1.1	42.2	12.600	2.600	0.430	1.200

DEPTH	HCO3
0.0	
1.0	51.8
25.0	
50.0	
124.0	51.6
199.0	51.6

C-REF-NO 302
 CONS. NO 027
 COUNTRY 18
 INSTITUTE 22

LAT 47-40-24N
 LON 086-44-18W
 YEAR 1969
 MONTH 11
 DAY 17
 TIME 2251

NO. DEPTHS 07
 SOUNDING 2720
 BT SLIDE NO 027

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.20					1.2
1.0			5.24		0.3	109	12.31	
25.0			5.20	0.031	0.3	106	12.31	
50.0			5.18	0.009	0.4	107	12.31	
125.0			3.80	0.013	0.4	105	12.93	
250.0			3.65	0.004	0.3	103	12.93	
270.0			3.64	0.001	0.3	103	12.86	

C-REF-NO 302
 CONS. NO 028
 COUNTRY 18
 INSTITUTE 22

LAT 47-21-00N
 LON 086-38-30W
 YEAR 1969
 MONTH 11
 DAY 18
 TIME 0124

NO. DEPTHS 06
 SOUNDING 2900
 BT SLIDE NO 028

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.10					1.1
1.0			5.36		0.6	105	12.24	
25.0			5.31	0.017	0.5	104	12.24	
50.0			5.23	0.005	0.6	104	12.16	
125.0			3.85	0.011	0.5	104	12.93	
250.0			3.70	0.003	0.6	104	12.93	

C-REF-NO 302
 CONS. NO 029
 COUNTRY 18
 INSTITUTE 22

LAT 47-01-12N
 LON 086-38-12W
 YEAR 1969
 MONTH 11
 DAY 18
 TIME 0408

NO. DEPTHS 07
 SOUNDING 3650
 BT SLIDE NO 029

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.60					1.1
1.0			5.63		0.4	105	12.14	
25.0			5.60	0.023	0.6	107	12.14	
50.0			5.57	0.009	0.6	107	12.14	
125.0			4.43	0.000	0.5	107	12.55	
250.0			4.00	0.004	1.6	108	12.75	
360.0			3.83	0.007	5.5	108	12.89	

C-REF-NO 302
 CONS. NO 030
 COUNTRY 18
 INSTITUTE 22

LAT 46-30-54N
 LON 086-34-24W

YEAR 1969
 MONTH 11
 DAY 18
 TIME 0727

NO. DEPTHS 05
 SOUNDING 0620
 BT SLIDE NO 030

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			7.00					1.2
1.0			7.18	0.001	1.2	112	11.44	
25.0			7.13	0.009	1.0	108	11.52	
50.0			7.05	0.008	1.0	109	11.52	
60.0			6.78	0.005	0.9	110	11.75	

C-REF-NO 302
 CONS. NO 031
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 18
 TIME 0854

NO. DEPTHS 05
 SOUNDING 1220
 BT SLIDE NO 031

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			6.90					1.4
1.0			7.02	0.010	0.4	103	11.63	
25.0			6.94	0.011	0.3	103	11.63	
50.0			6.43	0.005	0.2	103	11.85	
120.0			5.57	0.017	0.2	112	12.13	

DEPTH	TC	ALK	S	SO4	CL	HARD	CA	NFA	MG	NF	K	NFS	NA	NFS
0.0														
1.0		42.3		2.8	1.2	42.1	12.400		2.700		0.400		1.200	
25.0														
50.0		42.2		2.8	1.1	43.6	13.000		2.700		0.480		1.300	
120.0		42.2		2.7	1.1	42.2	12.800		2.600		0.500		1.300	

DEPTH	HCO3
0.0	
1.0	51.6
25.0	
50.0	51.4
120.0	51.4

C-REF-NO 302
 CONS. NO 032
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 18
 TIME 1420

NO. DEPTHS 06
 SOUNDING 1400
 BT SLIDE NO 032

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	8.0	5	6.20					1.1
1.0			6.16	0.000	0.3	107	11.82	
25.0			6.13	0.023	0.3	106	11.90	
50.0			5.92	0.006	0.4	105	11.76	
125.0			4.73	0.005	0.3	106	12.39	
138.0			4.64	0.008	0.7	106	12.44	

C-REF-NO 302
 CONS. NO 033
 COUNTRY 18
 INSTITUTE 22

LAT 46-57-06N
 LON 087-01-48W

YEAR 1969
 MONTH 11
 DAY 18
 TIME 1634

NO. DEPTHS 06
 SOUNDING 1450
 BT SLIDE NO 033

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	9.0	5	5.30					2.3
1.0			5.40	0.014	0.4	106	12.21	
25.0			5.34	0.021	0.5	107	12.21	
50.0			5.28	0.001	0.5	106	12.13	
125.0			3.87	0.004	1.5	107	12.82	
143.0			3.84		1.3	106	12.82	

C-REF-NO 302
 CONS. NO 034
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 18
 TIME 1846

NO. DEPTHS 06
 SOUNDING 2120
 BT SLIDE NO 034

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	10.0	5	5.60					1.3
1.0			5.73	0.008	1.0	110	12.06	
25.0			5.71	0.028	1.3	109	12.06	
49.0			5.28		1.2	107	12.60	
123.0			4.95	0.045	0.6	107	12.31	
207.0			3.84	0.007	0.8	106	12.86	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	42.2	2.9	1.2	43.2	13.000	2.600	0.480	1.300
25.0								
49.0								
123.0	42.1	2.5	1.1	42.9	12.900	2.600	0.450	1.300
207.0	41.9	2.9	1.1	42.7	12.800	2.600	0.460	1.300

DEPTH	HCO3
0.0	
1.0	51.4
25.0	
49.0	
123.0	51.3
207.0	51.1

C-REF-NO 302
 CONS. NO 035
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 18
 TIME 2138

NO. DEPTHS 07
 SOUNDING 2650
 BT SLIDE NO 035

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			4.40					0.4
1.0			4.40		0.6	108	12.70	
25.0			4.40	0.018	0.5	108	12.69	
49.0			4.40	0.004	0.5	108	12.70	
123.0			3.94	0.003	0.2	107	12.90	
246.0			3.66	0.001	0.4	109	12.90	
259.0			3.66	0.008	0.7	108	12.90	

C-REF-NO 302
 CONS. NO 036
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 19
 TIME 0158

NO. DEPTHS 06
 SOUNDING 1720
 BT SLIDE NO 036

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0			4.90					0.9
1.0			5.02		0.8	109	12.25	
23.0			5.01	0.007	0.7	104	12.38	
47.0			5.03	0.002	0.7	113	12.38	
117.0			4.91	0.000	0.3	113	12.38	
160.0			3.99	0.011	0.4	114	12.72	

C-REF-NO 302
 CONS. NO 037
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 19
 TIME 0450

NO. DEPTHS 06
 SOUNDING 2350
 BT SLIDE NO 037

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0			4.70					0.9
1.0			5.08		0.6	110	12.30	
19.0			5.07	0.008	0.4	109	12.30	
43.0			5.09	0.007	0.4	108	12.30	
116.0			4.50	0.012	0.5	108	12.60	
219.0			3.79	0.008	0.7	109	12.83	

C-REF-NO 302
 CONS. NO 038
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 19
 TIME 0806

NO. DEPTHS 06
 SOUNDING 1920
 BT SLIDE NO 038

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0			5.80					1.0
1.0			5.95	0.009	0.5	110	11.88	
24.0			5.96	0.007	0.4	108	11.89	
48.0			5.99	0.002	0.4	107	12.02	
121.0			4.40	0.010	0.5	109	12.75	
183.0			3.98	0.006	0.4	108	12.83	

C-REF-NO 302
 CONS. NO 039
 COUNTRY 18
 INSTITUTE 22

LAT 48-49-48N
 LON 087-36-00W

YEAR 1969
 MONTH 11
 DAY 19
 TIME 1036

NO. DEPTHS 04
 SOUNDING 0460
 BT SLIDE NO 039

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			4.90					1.1
1.0			5.07		0.7	110	12.13	
25.0			4.85	0.014	0.6	110	12.21	
44.0			5.09	0.009	0.6	109	12.16	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	44.4	2.9	1.1	45.8	13.900	2.750	0.460	1.300
25.0	44.5	2.9	1.1	45.8	13.900	2.700	0.450	1.300
44.0	44.2	2.7	1.2	45.1	13.600	2.700	0.450	1.300

DEPTH	HCO3
0.0	
1.0	54.1
25.0	54.2
44.0	51.2

C-REF-NO 302
 CONS. NO 040
 COUNTRY 18
 INSTITUTE 22

LAT 48-52-30N
 LON 087-52-30W

YEAR 1969
 MONTH 11
 DAY 19
 TIME 1216

NO. DEPTHS 04
 SOUNDING 0520
 BT SLIDE NO 040

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			4.80					1.8
1.0			4.47	0.000	1.2	121	12.22	
25.0			4.46	0.003	1.3	121	12.24	
50.0			4.46	0.025	1.5	121	12.10	

C-REF-NO 302
 CONS. NO 041
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 19
 TIME 1625

NO. DEPTHS 06
 SOUNDING 1460
 BT SLIDE NO 041

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	8.0	5	4.90					0.7
1.0			5.08	0.000	0.4	112	12.38	
25.0			5.04	0.005	0.5	111	12.34	
49.0			5.04	0.016	0.6	112	12.34	
123.0			3.95	0.014	0.5	112	12.83	
142.0			3.95	0.008	0.9	112	12.83	

C-REF-NO 302
 CONS. NO 042
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 19
 TIME 1853

NO. DEPTHS 06
 SOUNDING 2320
 BT SLIDE NO 042

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	10.0	4	4.30					0.8
1.0			4.43	0.005	0.5	112	12.60	
25.0			4.43	0.003	0.6	112	12.60	
49.0			4.44	0.002	0.4	111	12.60	
123.0			4.13	0.011	0.8	112	12.60	
226.0			3.72	0.000	0.4	112	12.90	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	41.8	2.7	1.1	43.2	13.000	2.600	0.560	1.250
25.0								
49.0								
123.0	42.0	2.4	1.1	43.2	13.000	2.600	0.520	1.250
226.0	41.9	2.7	1.2	43.2	13.000	2.600	0.500	1.200

DEPTH	HCO3
0.0	
1.0	51.0
25.0	
49.0	
123.0	51.2
226.0	51.1

C-REF-NO 302
 CONS. NO 043
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 19
 TIME 2119

NO. DEPTHS 06
 SOUNDING 2320
 BT SLIDE NO 043

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	10.0	4	4.40					0.8
1.0			4.44	0.009	0.3	111	12.56	
23.0			4.60	0.009	0.3	112	12.56	
45.0			4.44	0.053	0.3	111	12.53	
111.0			4.38	0.024	0.2	111	12.62	
209.0			3.74	0.003	0.3	110	12.86	

C-REF-NO 302
 CONS. NO 044
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 20
 TIME 0011

NO. DEPTHS 06
 SOUNDING 1600
 BT SLIDE NO 044

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.10					1.0
1.0			5.30	0.006	1.0	111	12.19	
25.0			5.31	0.020	1.0	112	12.21	
49.0			5.33	0.008	0.7	110	12.19	
123.0			5.15	0.003	0.1	110	12.28	
156.0			4.96	0.018	0.4	111	12.31	

C-REF-NO 302
 CONS. NO 045
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 20
 TIME 0240

NO. DEPTHS 05
 SOUNDING 1180
 BT SLIDE NO 045

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.90					1.2
1.0			5.96	0.025	0.2	112	11.85	
24.0			6.02	0.005	0.3	111	11.85	
48.0			6.02	0.006	0.3	108	11.77	
111.0			5.75	0.024	1.2	108	11.93	

C-REF-NO 302
 CONS. NO 046
 COUNTRY 18
 INSTITUTE 22

LAT 46-53-00N
 LON 087-30-12W

YEAR 1969
 MONTH 11
 DAY 20
 TIME 0452

NO. DEPTHS 05
 SOUNDING 0920
 BT SLIDE NO 046

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.80					0.9
1.0			5.97	0.019	0.2	112	11.90	
23.0			5.98	0.018	0.4	112	11.90	
47.0			6.00	0.012	0.4	113	11.90	
86.0			6.00	0.002	0.5	114	11.90	

C-REF-NO 302
 CONS. NO 047
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 20
 TIME 0703

NO. DEPTHS 03
 SOUNDING 0220
 BT SLIDE NO 047

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.60					2.3
1.0			6.07	0.018	0.3	113	11.82	
20.0			6.11	0.016	0.3	112	11.82	

DEPTH	TC ALK	S S04	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	41.9	2.9	1.2	43.7	13.200	2.600	0.500	1.200
20.0	42.1	2.3	1.2	44.2	13.400	2.600	0.470	1.300

DEPTH	HC03
0.0	
1.0	51.1
20.0	51.3

C-REF-NO 302
 CONS. NO 048
 COUNTRY 18
 INSTITUTE 22

LAT 46-52-32N
 LON 087-43-00W

YEAR 1969
 MONTH 11
 DAY 20
 TIME 1159

NO. DEPTHS 03
 SOUNDING 0220
 BT SLIDE NO 048

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			6.20					1.3
1.0			6.34	0.032	0.6	110	11.62	
20.0			6.35	0.024	0.6	111	11.71	

C-REF-NO 302
 CONS. NO 049
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 20
 TIME 1313

NO. DEPTHS 03
 SOUNDING 0200
 BT SLIDE NO 049

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			6.20					1.3
1.0			6.26	0.016	0.4	111	11.69	
18.0			6.28	0.016	0.5	112	11.71	

C-REF-NO 302
 CONS. NO 050
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 20
 TIME 1559

NO. DEPTHS 06
 SOUNDING 1220
 BT SLIDE NO 050

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	10.0	6	5.80					0.8
1.0			5.98	0.023	0.8	114	11.83	
25.0			6.07	0.001	0.3	114	11.75	
50.0			6.01	0.008	0.3	112	11.86	
92.0			5.56	0.002	0.3	112	11.86	
120.0								

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	42.5	2.4	1.2	43.7	13.200	2.600	0.440	1.300
25.0								
50.0	42.3	2.7	1.2	43.2	13.000	2.550	0.450	1.300
92.0								
120.0	42.0	2.7	1.2	43.2	13.000	2.550	0.450	1.300

DEPTH	HCO3
0.0	
1.0	51.8
25.0	
50.0	51.6
92.0	
120.0	51.2

C-REF-NO 302
 CONS. NO 051
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 20
 TIME 1832

NO. DEPTHS 05
 SOUNDING 0620
 BT SLIDE NO 051

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	10.0	5	6.00					0.8
1.0			6.43	0.021	0.6	112	11.66	
25.0			6.44	0.026	0.5	112	11.67	
50.0			6.46	0.011	0.8	112	11.70	
60.0			6.17	0.009	0.4	111	11.83	

C-REF-NO 302
 CONS. NO 052
 COUNTRY 18
 INSTITUTE 22

LAT 47-28-18N
 LON 088-11-12W

YEAR 1969
 MONTH 11
 DAY 20
 TIME 2344

NO. DEPTHS 05
 SOUNDING 1300
 BT SLIDE NO 052

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.20					1.3
1.0			5.48	0.021	0.3	108	12.18	
25.0			5.52	0.011	0.3	108	11.94	
50.0			5.51	0.005	0.2	109	12.02	
125.0			5.48	0.030	0.3	108	12.02	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	42.3	2.7	1.2	43.2	13.000	2.600	0.470	1.300
25.0	42.6	2.7	1.2	43.2	13.000	2.600	0.440	1.300
50.0	42.3	2.9	1.2	43.9	13.300	2.600	0.420	1.300
125.0	42.1	2.9	1.2	45.2	13.500	2.800	0.450	1.300

DEPTH	HCO3
0.0	
1.0	51.6
25.0	51.9
50.0	51.6
125.0	51.3

C-REF-NO 302
 CONS. NO 053
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 21
 TIME 0213

NO. DEPTHS 06
 SOUNDING 2200
 BT SLIDE NO 053

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			4.20					0.8
1.0			4.24	0.014	0.2	108	12.62	
25.0			4.38	0.012	0.2	108	12.62	
50.0			4.41	0.007	0.2	109	12.55	
124.0			4.09	0.002	0.3	108	12.66	
217.0			3.75	0.011	3.3	107	12.86	

C-REF-NO 302
 CONS. NO 054
 COUNTRY 18
 INSTITUTE 22

LAT 48-07-18N
 LON 088-23-42W

YEAR 1969
 MONTH 11
 DAY 21
 TIME 0440

NO. DEPTHS 05
 SOUNDING 0950
 BT SLIDE NO 054

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.30					1.0
1.0			5.31	0.019	1.7	113	12.14	
25.0			5.33		1.3	112	12.14	
49.0			5.36	0.006	1.3	109	12.14	
92.0			5.30	0.002	0.4	108	12.15	

C-REF-NO 302
 CONS. NO 055
 COUNTRY 18
 INSTITUTE 22

LAT 48-23-30N
 LON 088-33-18W

YEAR 1969
 MONTH 11
 DAY 21
 TIME 0645

NO. DEPTHS 05
 SOUNDING 0570
 BT SLIDE NO 055

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			4.30					1.0
1.0			4.06	0.022	1.5	115	12.51	
25.0			4.23	0.026	1.5	110	12.43	
50.0			4.03	0.014	1.0	110	12.51	
55.0			4.05	0.014	1.0	111	12.51	

C-REF-NO 302
 CONS. NO 056
 COUNTRY 18
 INSTITUTE 22

LAT 48-09-36N
 LON 088-55-00W

YEAR 1969
 MONTH 11
 DAY 21
 TIME 0909

NO. DEPTHS 06
 SOUNDING 2070
 BT SLIDE NO 056

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.00					1.0
1.0			5.01	0.024	0.5	112	12.27	
25.0			5.00		0.4	114	12.36	
50.0			5.03	0.001	0.3	109	12.36	
125.0			4.09	0.000	0.3	109	12.86	
205.0			3.88	0.004	0.4	112	12.87	

C-REF-NO 302
 CONS. NO 057
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 21
 TIME 1056

NO. DEPTHS 04
 SOUNDING 0530
 BT SLIDE NO 057

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			5.40					1.2
1.0			5.42	0.021	0.3	108	11.62	
25.0			5.43	0.013	0.4	110	11.85	
50.0			5.33	0.002	0.7	108	11.85	

C-REF-NO 302
 CONS. NO 058
 COUNTRY 18
 INSTITUTE 22

LAT 48-25-48N
 LON 089-08-48W

YEAR 1969
 MONTH 11
 DAY 21
 TIME 1157

NO. DEPTHS 03
 SOUNDING 0270
 BT SLIDE NO 058

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			4.80					1.6
1.0			4.84	0.027	0.4	107	12.00	
25.0			4.84	0.012	2.0	107	12.00	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	43.0	2.8	1.2	46.0	13.800	2.800	0.450	1.400
25.0	42.7	2.4	1.2	46.0	13.800	2.850	0.450	1.400

DEPTH	HCQ3
0.0	
1.0	52.4
25.0	52.1

C-REF-NO 302
 CONS. NO 059
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 21
 TIME 1402

NO. DEPTHS 05
 SOUNDING 0970
 BT SLIDE NO 059

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	10.0	10	4.90					0.8
1.0			4.89	0.016	0.3	109	12.05	
25.0			4.83	0.028	0.3	108	12.02	
50.0			4.74	0.005	0.3	108	12.04	
90.0			4.71	0.000	0.5	109	12.08	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	42.3	2.3	1.4	44.0	13.000	2.800	0.450	1.200
25.0								
50.0	42.5	2.3	1.2	45.5	13.600	2.800	0.500	1.400
90.0	42.3	2.4	1.2	45.5	13.600	2.800	0.480	1.450

DEPTH	HC03
0.0	
1.0	51.6
25.0	
50.0	51.8
90.0	51.6

C-REF-NO 302
 CONS. NO 060
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 21
 TIME 1639

NO. DEPTHS 06
 SOUNDING 2380
 BT SLIDE NO 060

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	10.0	7	5.10					0.7
1.0			5.21	0.018	0.1	115	12.18	
25.0			5.21	0.013	0.1	115	12.18	
50.0			5.23	0.012	0.1	111	12.18	
125.0			4.16	0.004	0.1	109	12.74	
236.0			3.82	0.008	3.0	114	12.72	

C-REF-NO 302
 CONS. NO 061
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 21
 TIME 1907

NO. DEPTHS 06
 SOUNDING 1770
 BT SLIDE NO 061

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0	10.0	4	4.70					0.8
1.0			4.84	0.007	0.4	114	12.34	
25.0			4.85		0.4	112	12.34	
50.0			4.88	0.005	0.3	109	12.37	
125.0			3.87	0.011	0.3	111	12.83	
175.0			3.83	0.010	1.0	113	12.83	

C-REF-NO 302
 CONS. NO 062
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 21
 TIME 2120

NO. DEPTHS 06
 SOUNDING 2220
 BT SLIDE NO 062

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0	10.0	4	4.40					0.8
1.0			4.89	0.019	0.3	108	12.25	
25.0			4.90		0.3	107	12.35	
50.0			4.88	0.001	0.2	107	12.35	
124.0			4.67	0.008	0.3	107	12.48	
219.0			3.80	0.014	0.3	107	12.87	

C-REF-NO 302
 CONS. NO 063
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 21
 TIME 2353

NO. DEPTHS 06
 SOUNDING 1790
 BT SLIDE NO 063

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0			4.50					0.6
1.0			4.37	0.020	0.0	109	12.55	
25.0			4.37	0.010	0.0	110	12.48	
50.0			4.39	0.023	0.0	109	12.55	
125.0			4.38	0.010	0.1	109	12.52	
175.0			3.92	0.015	0.1	109	12.79	

C-REF-NO 302
 CONS. NO 064
 COUNTRY 18
 INSTITUTE 22

LAT 47-15-36N
 LON 088-37-00W

YEAR 1969
 MONTH 11
 DAY 22
 TIME 0059

NO. DEPTHS 03
 SOUNDING 0180
 BT SLIDE NO 064

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0			4.80					1.4
1.0			4.90	0.024	0.4	110	12.24	
16.0			4.87	0.011	0.3	109	12.18	

C-REF-NO 302
 CONS. NO 065
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 22
 TIME 0346

NO. DEPTHS 06
 SOUNDING 1750
 BT SLIDE NO 065

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			4.20					0.7
1.0			4.33	0.001	0.1	113	12.55	
24.0			4.38	0.002	0.1	110	12.39	
48.0			4.38		0.1	109	12.58	
121.0			4.37	0.018	0.2	110	12.62	
167.0			3.92	0.001	0.2	108	12.83	

C-REF-NO 302
 CONS. NO 066
 COUNTRY 18
 INSTITUTE 22

LAT 47-01-06N
 LON 089-03-06W

YEAR 1969
 MONTH 11
 DAY 22
 TIME 0702

NO. DEPTHS 03
 SOUNDING 0280
 BT SLIDE NO 066

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			3.20					2.7
1.0			3.14	0.006	4.9	113	12.75	
16.0			3.32	0.006	3.9	113	12.68	

C-REF-NO 302
 CONS. NO 067
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 22
 TIME 0921

NO. DEPTHS 05
 SOUNDING 0720
 BT SLIDE NO 067

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			4.50					1.4
1.0			4.47	0.016	0.5	109	12.31	
25.0			4.48	0.006	0.6	109	12.31	
50.0			4.50		0.6	109	12.33	
70.0			4.50	0.003	0.6	108	12.35	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	42.3	2.7	1.2	46.0	13.800	2.800	0.450	1.250
25.0	42.7	2.7	1.2	46.0	13.800	2.800	0.450	1.250
50.0								
70.0	43.1	2.8	1.2	46.0	13.800	2.800	0.490	1.250

DEPTH	HCO3
0.0	
1.0	51.6
25.0	52.1
50.0	
70.0	52.5

C-REF-NO 302
 CONS. NO 068
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 22
 TIME 1140

NO. DEPTHS 06
 SOUNDING 1900
 BT SLIDE NO 068

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			4.50					0.8
1.0			4.62	0.018	0.2	109	12.33	
25.0			4.64	0.003	0.1	107	12.47	
50.0			4.64		0.1	105	12.47	
124.0			4.60	0.007	0.1	105	12.44	
187.0			3.81	0.016	0.1	105	12.78	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	42.8	2.8	1.1	46.0	14.000	2.800	0.480	1.250
25.0								
50.0								
124.0	43.1	2.7	1.2	44.6	13.400	2.700	0.490	1.200
187.0	42.9	2.8	1.1	45.3	13.700	2.700	0.490	1.250

DEPTH	HCO3
0.0	
1.0	52.2
25.0	
50.0	
124.0	52.5
187.0	52.3

C-REF-NO 302
 CONS. NO 069
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 22
 TIME 1413

NO. DEPTHS 06
 SOUNDING 1880
 BT SLIDE NO 069

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	12.0	7	4.20					0.5
1.0			4.29	0.007	0.1	109	12.48	
25.0			4.35	0.002	0.2	109	12.50	
50.0			4.33	0.010	0.2	110	12.59	
125.0			4.26	0.015	0.3	110	12.59	
186.0			3.85	0.016	0.3	110	12.78	

C-REF-NO 302
 CONS. NO 070
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 22
 TIME 1625

NO. DEPTHS 04
 SOUNDING 0440
 BT SLIDE NO 070

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	8.0	7	4.20					0.6
1.0			4.38	0.007	0.5	106	12.51	
25.0			4.26		0.5	109	12.60	
42.0			4.20	0.020	0.6	107	12.62	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	42.8	2.6	1.2	44.0	13.000	2.800	0.490	1.200
25.0	42.8	2.4	1.2	44.8	13.500	2.700	0.460	1.200
42.0	42.5	2.7	1.1	46.0	13.800	2.800	0.450	1.200

DEPTH	HCO3
0.0	
1.0	52.2
25.0	52.2
42.0	51.8

C-REF-NO 302
 CONS. NO 071
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 22
 TIME 1848

NO. DEPTHS 06
 SOUNDING 1370
 BT SLIDE NO 071

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	10.0	4	4.80					0.9
1.0			4.83	0.015	0.4	111	12.45	
25.0			4.84		0.3	111	12.37	
50.0			4.81	0.018	0.2	110	12.60	
125.0			3.87	0.009	0.2	108	12.83	
135.0			3.86	0.005	0.2	111	12.83	

C-REF-NO 302
 CONS. NO 072
 COUNTRY 18
 INSTITUTE 22

LAT 47-29-12N
 LON 090-12-36W
 YEAR 1969
 MONTH 11
 DAY 22
 TIME 2031

NO. DEPTHS 06
 SOUNDING 1370
 BT SLIDE NO 072

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	10.0	4	4.40					1.0
1.0			4.43	0.006	0.5	109	12.55	
25.0			4.45	0.008	0.4	108	12.58	
50.0			4.43		0.5	108	12.62	
125.0			4.10	0.019	0.3	108	12.75	
135.0			3.99	0.012	0.5	109	12.75	

C-REF-NO 302
 CONS. NO 073
 COUNTRY 18
 INSTITUTE 22

LAT 47-09-48N
 LON 090-06-00W
 YEAR 1969
 MONTH 11
 DAY 22
 TIME 2231

NO. DEPTHS 06
 SOUNDING 1350
 BT SLIDE NO 073

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			4.40					0.9
1.0			4.38		0.3	110	12.66	
25.0			4.37	0.012	0.2	110	12.59	
50.0			4.39		0.2	108	12.58	
125.0			4.38	0.009	0.2	109	12.55	
133.0			4.37	0.014	0.3	110	12.55	

C-REF-NO 302
 CONS. NO 074
 COUNTRY 18
 INSTITUTE 22

LAT 46-50-18N
 LON 089-59-00W
 YEAR 1969
 MONTH 11
 DAY 23
 TIME 0041

NO. DEPTHS 06
 SOUNDING 1550
 BT SLIDE NO 074

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			4.40					1.0
1.0			4.38	0.013	0.1	108	12.56	
25.0			4.39	0.010	0.1	108	12.52	
50.0			4.40		0.1	108	12.53	
125.0			4.40	0.002	0.1	108	12.52	
153.0			4.39	0.015	0.1	107	12.47	

C-REF-NO 302
 CONS. NO 075
 COUNTRY 18
 INSTITUTE 22

LAT 46-35-48N
 LON 090-23-48W
 YEAR 1969
 MONTH 11
 DAY 23
 TIME 0304

NO. DEPTHS 03
 SOUNDING 0250
 BT SLIDE NO 075

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			4.20					1.8
1.0			4.30	0.017	0.4	103	12.43	
23.0			4.31	0.010	0.3	106	12.41	

C-REF-NO 302
 CONS. NO 076
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 23
 TIME 0417

NO. DEPTHS 05
 SOUNDING 0520
 BT SLIDE NO 076

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			4.00					1.5
1.0			4.03	0.016	0.4	110	12.60	
25.0			4.04	0.015	0.3	111	12.60	
48.0								
50.0			4.05		0.4	109	12.60	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	42.3	2.7	1.2	44.8	13.500	2.700	0.440	1.200
25.0	42.3	2.7	1.2	45.3	13.700	2.700	0.420	1.200
48.0	42.3	2.5	1.1	45.3	13.700	2.700	0.440	1.250
50.0								

DEPTH	HCO3
0.0	
1.0	51.6
25.0	51.6
48.0	51.6
50.0	

C-REF-NO 302
 CONS. NO 077
 COUNTRY 18
 INSTITUTE 22

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

YEAR 1969
 MONTH 11
 DAY 23
 TIME 0643

NO. DEPTHS 03
 SOUNDING 0170
 BT SLIDE NO 077

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			3.80					1.5
1.0			4.08	0.001	0.4	108	12.54	
15.0			4.12	0.005	0.3	106	12.54	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	42.2	2.5	1.2	44.6	13.400	2.700	0.460	1.300
15.0	42.0	2.7	1.2	42.7	13.000	2.500	0.460	1.200

DEPTH	HCO3
0.0	
1.0	51.4
15.0	51.1

C-REF-NO 302
 CONS. NO 078
 COUNTRY 18
 INSTITUTE 22

LAT 47-24-06N
 LON 090-41-36W

YEAR 1969
 MONTH 11
 DAY 23
 TIME 0901

NO. DEPTHS 06
 SOUNDING 1770
 BT SLIDE NO 078

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			4.10					1.1
1.0			4.25	0.011	0.5	108	12.80	
25.0			4.26	0.015	0.3	108	12.81	
50.0			4.26	0.006	0.4	108	12.83	
125.0			4.28	0.026	0.3	109	12.86	
175.0			3.90	0.006	1.1	109	12.86	

DEPTH	TC ALK	S S04	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	41.5	2.5	1.2	44.6	13.400	2.700	0.470	1.100
25.0								
50.0	41.7	2.6	1.2	43.6	13.000	2.700	0.550	1.300
125.0								
175.0	41.5	2.6	1.2	44.3	13.300	2.700	0.540	1.250

DEPTH	HCO3
0.0	
1.0	50.6
25.0	
50.0	50.8
125.0	
175.0	50.6

C-REF-NO 302
 CONS. NO 079
 COUNTRY 18
 INSTITUTE 22

LAT 47-36-00N
 LON 090-45-42W

YEAR 1969
 MONTH 11
 DAY 23
 TIME 1040

NO. DEPTHS 05
 SOUNDING 1120
 BT SLIDE NO 079

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			4.10					1.1
1.0			4.36	0.002	0.2	110	12.70	
25.0			4.37		0.2	110	12.70	
50.0			4.28	0.030	0.2	108	12.76	
110.0			4.32		0.2	109	12.76	

DEPTH	TC ALK	S S04	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	41.5	2.7	1.2	44.8	13.500	2.700	0.580	1.200
25.0								
50.0	41.5	2.4	1.1	44.8	13.500	2.700	0.520	1.150
110.0	41.5	2.3	1.1	44.8	13.500	2.700	0.520	1.150

DEPTH	HCO3
0.0	
1.0	50.6
25.0	
50.0	50.6
110.0	50.6

C-REF-NO 302
 CONS. NO 080
 COUNTRY 18
 INSTITUTE 22

LAT 47-19-12N
 LON 091-10-12W

YEAR 1969
 MONTH 11
 DAY 23
 TIME 1327

NO. DEPTHS 06
 SOUNDING 2290
 BT SLIDE NO 080

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0	8.0	7	4.20					1.2
1.0			4.31	0.010	0.2	106	12.55	
25.0			4.32	0.009	0.1	107	12.39	
50.0			4.32	0.003	0.2	106	12.47	
125.0			4.04	0.000	0.3	106	12.78	
227.0			3.89	0.015	0.9	106	12.70	

C-REF-NO 302
 CONS. NO 081
 COUNTRY 18
 INSTITUTE 22

LAT 46-59-54N
 LON 091-02-54W

YEAR 1969
 MONTH 11
 DAY 23
 TIME 1537

NO. DEPTHS 05
 SOUNDING 0790
 BT SLIDE NO 081

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0	6.5	10	5.00					1.2
1.0			5.11	0.009	0.5	109	12.31	
25.0			5.13	0.007	0.6	109	12.24	
50.0			5.14	0.009	0.6	108	12.08	
77.0			4.62	0.002	35.0	111	12.08	

C-REF-NO 302
 CONS. NO 082
 COUNTRY 18
 INSTITUTE 22

LAT 46-47-00N
 LON 091-28-06W

YEAR 1969
 MONTH 11
 DAY 23
 TIME 1751

NO. DEPTHS 03
 SOUNDING 0120
 BT SLIDE NO 082

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0	2.0	11	3.60					3.1
1.0			2.96	0.008	3.0	120	12.57	
10.0			2.95	0.003	4.0	119	12.51	

C-REF-NO 302
 CONS. NO 083
 COUNTRY 18
 INSTITUTE 22

LAT 46-55-06N
 LON 091-31-18W

YEAR 1969
 MONTH 11
 DAY 23
 TIME 1952

NO. DEPTHS 05
 SOUNDING 1270
 BT SLIDE NO 083

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	02 W	CHLORA
0.0	8.0	5	4.30					0.9
1.0			4.36	0.009	0.9	113	12.52	
25.0			4.41	0.002	0.3	108	12.49	
50.0			4.42	0.017	0.4	108	12.57	
125.0			3.86	0.001	4.0	106	12.57	

C-REF-NO 302
 CONS. NO 084
 COUNTRY 18
 INSTITUTE 22

LAT 47-03-54N
 LON 091-34-30W

YEAR 1969
 MONTH 11
 DAY 23
 TIME 2006

NO. DEPTHS 05
 SOUNDING 0770
 BT SLIDE NO 084

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0	9.0	5	4.20					1.1
1.0			4.25	0.010	0.6	110	12.58	
25.0			4.27	0.015	0.6	110	12.60	
50.0			4.29	0.006	0.6	110	12.60	
75.0			4.29	0.002	0.7	109	12.58	

C-REF-NO 302
 CONS. NO 085
 COUNTRY 18
 INSTITUTE 22

LAT 46-49-42N
 LON 091-59-30W

YEAR 1969
 MONTH 11
 DAY 23
 TIME 2227

NO. DEPTHS 04
 SOUNDING 0350
 BT SLIDE NO 085

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			4.40					1.5
1.0			4.63	0.005	0.6	107	12.21	
25.0			4.65	0.003	0.5	107	12.21	
33.0			4.65	0.004	0.8	108	12.21	

DEPTH	TC ALK	S SO4	CL	HARD	CA NFA	MG NF	K NFS	NA NFS
0.0								
1.0	41.8	2.6	1.2	45.2	13.500	2.800	0.610	1.200
25.0	42.0	2.8	1.2	45.2	13.500	2.800	0.520	1.250
33.0	41.6	2.8	1.2	45.0	13.400	2.800	0.510	1.250

DEPTH	HC03
0.0	
1.0	51.0
25.0	51.2
33.0	50.7

C-REF-NO 302
 CONS. NO 086
 COUNTRY 18
 INSTITUTE 22

LAT 46-42-06N
 LON 091-56-24W

YEAR 1969
 MONTH 11
 DAY 23
 TIME 2322

NO. DEPTHS 03
 SOUNDING 0160
 BT SLIDE NO 086

DEPTH	SECCHI	FOREL	TEMP	T CLAS	TURB	SP CON	O2 W	CHLORA
0.0			4.10					2.5
1.0			3.99	0.013	1.0	111	12.39	
14.0			3.97		1.0	111	12.39	