Report 2: Transport, Currents and Temperature from the United States and Canadian Coastal Chain Studies

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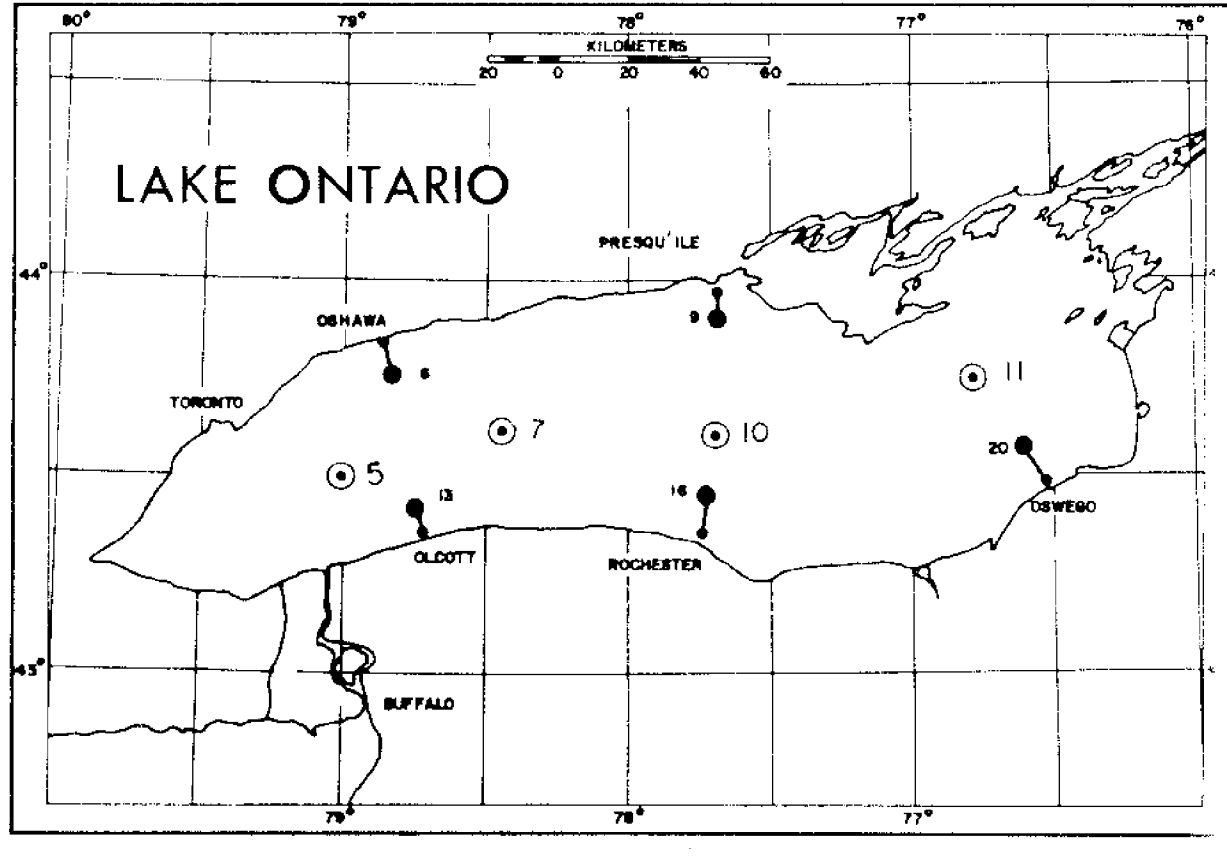
Jon T. Scott

August 1976

US IFYGL Coastal Chain Program



U.S. IFYGL COASTAL CHAIN PROGRAM

Report 2: Transport, Currents and Temperature from the United States and Canadian IFYGL Coastal Chain Studies

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by

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INTRODUCTION

This is the second data report from the IFYGL coastal chain program. The first reports provided basic current velocity and temperature data from the Canadian (Csanady and Pade, 1972) and U.S. (Scott, et al 1973) coastal chain programs. The purpose of this second data report is to provide a more useful source of the total IFYGL coastal current data than was available in the original data reports. It is intended primarily for the scientific user, but may also provide information on a variety of applied coastal problems.

The primary scientific purpose of this report is to provide limnologists with several kinds of summarized temperature, velocity and transport data for the five coastal chains combined. Locations of the five chains are given in Figure 1. The introductory text also provides a review of the measurement techniques including assessment of data accuracy plus the methods of calculation used in the report and the limitations we believe should be placed on use of the data.

THE IFYGL COASTAL CHAIN PROGRAM

The IFYGL coastal chain measurement program was designed to provide the physical limnologists with an improved understanding of both coastal and lake-wide transport and circulation processes. The information was also intended to help verify physical numerical models and to provide input of physical data to ecosystem nutrient and pollution studies. The report is also intended to be helpful in management problems like the planning of industrial siting (power plants, etc.), municipal use of water for drinking, disposal of wastes, recreation and other similar uses.

Bennett and Saylor (1974) describe the relation of the coastal measurements to the IFYGL water movement program and Ludwigson (1974), Richards (1974) and Aubert (1974) provide overviews and goals of the entire IFYGL program. Some early interpretations of IFYGL coastal chain data are given by Csanady (1974), Blanton (1974, 1975) and Scott (1974). Prior IFYGL coastal chain studies by Ragotzkie (1966), Scott and Landsberg (1969), Scott, et al (1971), and Csanady (1971, 1972, 1972a) will also provide interpretations of coastal circulation.

The coastal chain technique utilizes a line of anchored buoys spaced at 1 to 2 km intervals and directed out into the lake, usually perpendicular to shore or to the depth contours. Measurements of water velocity and temperature are obtained at frequent depth intervals to about 50 m. These are taken at one to three times daily on the complete chain (weather permitting) using a small boat tied to each fixed buoy in turn. "Deck-readout" current and temperature meters are used.

The basic data were collected for three "alert" periods in 1972.

These were chosen so as to provide information for three characteristic circulation periods. The first alert (May 15-June 15) provided data for the "thermal bar" period which ended approximately at the time of thermocline formation over the entire lake. The second alert (July 15-August 15) illustrates the early summer period marked by a fairly weak thermocline and strong, quasi-steady coastal currents. The third alert period (September 15-October 15) typifies the late summer conditions with a sharp, deep thermocline and nearly homogeneous epilimnion temperatures. In this period the lake circulation is dominated by periodic motions due to internal waves.

Coastal chain data provides good spatial resolution but the data are only "quasi-synoptic," because each sampling "run" takes from three to five hours to complete. Temporal velocity changes may introduce large natural variability in individual measurements. For example, systematic changes in direction of 60^{o} to 100^{o} might be caused by inertial oscillations during the three to six hour sampling period for a given "run". Data for individual "runs" should therefore be used with some care. However, we feel that the patterns over several days are consistent and provide meaningful interpretation of large-scale circulation patterns in Lake Ontario. The means of several days to a month also provide useful information on transport processes in the coastal region of the Great Lakes.

FIELD OBSERVATIONS

Buoys and Buoy Patterns

Each U. S. coastal chain contained nine locations where current velocity and temperature profiles were obtained and nine stations where only temperature profiles were obtained. The temperature stations were at the mid-points of the current stations. The Canadian coastal chains consisted of twelve locations where current velocity and temperature profiles were measured. The buoy locations are shown in Figures 2 through 6. All buoys were securely anchored to prevent movement by wave action or dragging by attached boats and locations were establishe by standard navigation procedures.

Not all of the sampling runs contained full records of data. This is because on occasion buoys would be missing for a few days or at time they were not found due to poor visibility. Also, bad weather or instrument failure sometimes forced abandonment of a run so that only the first part of the chain of buoy stations may be sampled.

Current Velocity was measured with a Bendix-Marine Advisors Q-15 deck-readout unit. Manufacturers stated accuracy is $\pm$ 3% for speed and $\pm$ 12^{o} for direction. The response times are quoted as 3 sec for speed and 1 sec for direction. We found that speed accuracy was excellent on these meters. The signal integration circuit gave a time response longe than 3 sec and we found that from 10-30 sec was required to reach a stable speed when the sensor was lowered to each new depth. Currents below the starting speed (2 cm/sec) of the meter were reported when directions were persistent since it was felt that the general trend is useful.

Direction accuracy was difficult to maintain and some instruments drifted off calibration by 10-30 degrees in a few days. Since this cal bration is simple and can be performed in the field in most cases, this drifting problem was eliminated. Direction accuracy for most field con ditions was probably $\pm$ 15^{o} to 20^{o}.

Speed and direction checks were obtained by comparison against drogues at fairly frequent intervals and calibrations were made between "alert" periods. Drogue readings provided good speed calibration in field conditions and they could be used to spot direction errors greater than about 20 degrees. Drogue and meter speeds were always comparable and no field corrections were applied to the speed readings.

Experience shows that for "spot" type measurements the speed readings are not much better than ± 20% if the data are assumed to apply to periods of several minutes to an hour because of naturally occurring short-period speed variations. Each reading at a given depth represents an average value of about 30 seconds after the meter has stabilized, but fluctuations with periods of a few minutes to several hours naturally occur in the Great Lakes.

Temperature

Temperature was measured with Whitney Underwater Resistance Thermometers (Montedora Corp., Model TL-5) for the U. S. data and with a Marine Advisors Thermistor meter for the Canadian data. Accuracy in the field is ± 0.1° C and time response is less than 5 sec. The instruments were calibrated weekly against a mercury in glass thermometer (± 0.1° C) and all corrections are applied in the field. These were generally less than 0.2° C since the meters were quite stable.

The main problem with the Whitney instrument used for the U. S. data is in determining sensor depth. This was difficult on rough days because it was difficult to keep the line vertical, but our experience has shown that with some care the Whitney can be used to obtain the calibrated accuracy (0.1° C). For most of the data presented conditions were calm enough so that we estimate that errors are not greater than + 0.3° C. On rough days however errors could be as high as + 0.5° C for a given depth. This is a one direction error, because angle on the line would cause the sensor to be at insufficient depth and thus in a warmer region. Since Canadian data utilized a depth transducer the accuracy may approach the stated calibration of ± 0.1° C.

DATA ANALYSIS AND REPORT FORMAT

Raw data from the coastal chain program consisted of current velocity and temperature for each station along the "chain" taken at two meter intervals to 20 m and then at five meter intervals to the lake bottom or 50 meters, whichever came first. The report contains plots and tables based upon the data after certain routine data treatment. Wherever possible we have attempted to present the data so that all five coastal chains are contained in one or a few pages of plots or tables. This section describes how the calculations were performed and how to locate the data in the three sections of the report.

Wind Velocity and Wind Stress

Wind velocity and calculated wind stress were obtained from Mr. Floyd Elder of the Canada Centre for Inland Waters for buoys 5, 7, 10 and 11 (Figure 1) of the IFYGL network. Stress was calculated from the formula $\tau = \rho C_d V^2$, where ρ is air density, C_d the drag coefficient assumed to be 1.2×10^{-3} and V is the appropriate wind speed component (northward and eastward being positive).

Daily average wind stress is plotted over time for the three alert periods along with transport calculations in section I. The hourly values of wind velocity and the two stress components for each day of

data are given in section III following the cross-sectional plots of the same day.

Measured and Baroclinic Geostrophic Velocity

Measured velocity data were divided into alongshore and transverse components and then interpolated to give values at each meter of depth. These are plotted on daily cross-sectional diagrams provided in section III. If two "runs" were available for a given day only the first, or morning "run" is included in section III, unless the subsequent run for that day contained significantly more data (a rare occurrence). Baroclinic geostrophic currents were calculated from the temperature data interpolated to one meter intervals. Depth of "no motion" was taken to be 50 meters for deep stations and lake bottom for inshore stations of less than 50 meters depth. Explanations of the calculation of geostrophic velocity for lake data is given by Ayers, et al (1956) and Ragotzkie (1966). The baroclinic geostrophic velocity cross-sections are given in section III.

The cross-sectional diagrams in section III are constructed along lines approximately perpendicular to shore. The positive along-shore true headings for these diagrams are: 57^{o} for Oswego, 104^{o} for Rochester, 76^{o} for Olcott, 82^{o} for Oshawa and 93^{o} for Presqu'ile.

Temperature Cross-sections

Daily cross-sections of temperature are given in the third plot of the sequence in section III. Data are for the same "runs" as used for the two velocity cross-sections.

Transport

The emphasis of this report is on transport in coastal currents to elucidate circulation and transport mechanisms in Lake Ontario. For this reason several types of transport calculations were made using the measured along-shore velocity and the computed baroclinic geostrophic velocity.

In addition to total cross-sectional transport we thought that values separated by the natural lake phenomena might shed some light on mechanisms. We therefore attempted to compute transport for flow above and below the thermocline and for flow occurring in fast flowing "jet cores" even though the definitions of these might be somewhat arbitrary. A given cross-section may consist of both eastward and westward flow. Therefore positive and negative values of along-shore transport have also been provided.

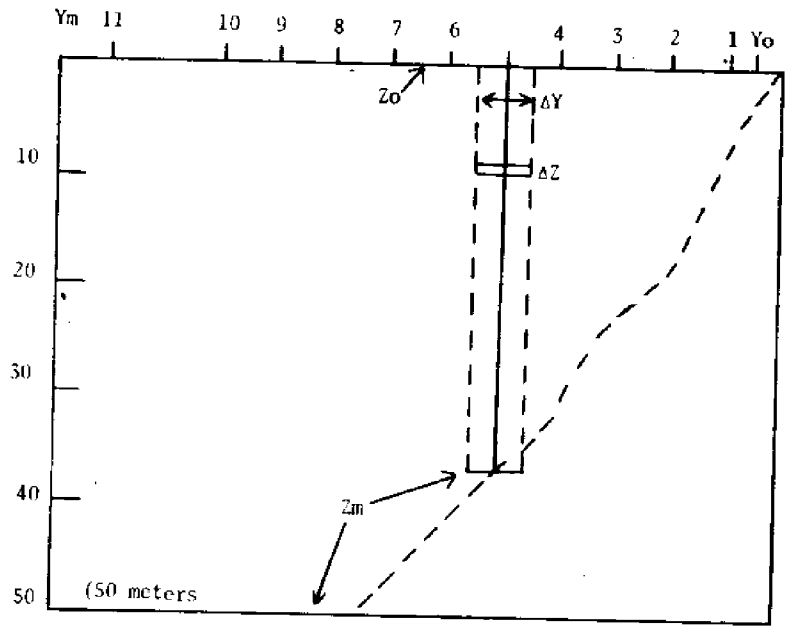
Lastly, we thought that the proportion of baroclinicity (i.e the "thermal current") in the transport might shed light on circulation mechanisms. Therefore the daily cross-sectional baroclinic transport was subtracted from the daily measured value to give a residual which we call "barotropic" transport. The latter flow may not be in geostrophic equilibrium since it includes many transient phenomena related to wind changes or periodic motions in the lake.

The basic calculation to provide transport for a given cross-sectional plot or "run" is given by,

$$T = \sum_{z=0}^{Z_m} \sum_{y=0}^{Y_m} U_z \Delta z \ \Delta y$$

Where T is total transport, Δz is the depth interval (one meter), Δy is the distance between station mid-points and U_z is the appropriate

along-shore velocity component. The cross-section is integrated from the surface (Zo) to either the bottom or 50 meters (Zm) and over the transverse distance from the first mid-point away from the shore (Yo) to the last station (Ym). The station interval (ΔY) used for the last station was the distance from the last mid-point and Ym or half the normal interval. The calculation is illustrated in the following diagram.



Transport is computed for a series of rectangles which produces some error for the inshore stations. Velocities near the bottom are small so that the error from this procedure is insignificant compared to the total transport.

The transport data are plotted over time for the three alerts in section I. The first plot in the sequence (mean daily eastward wind stress) is followed by the total daily cross-sectional transport.

The third plot of the sequence is measured transport above the thermocline which was defined as the region above the 5° C isotherm in the first alert and above the 8° C for the second and third alerts. The fourth plot shows measured daily transport within "jet cores" where these were defined as any along-shore speeds greater than 4 cm/sec.

The fifth plot of the sequence in section I gives daily values of positive (eastward) and negative (westward) measured along-shore transport. The last plot of the sequence gives the daily value of "baratropic" transport as defined above.

In section II the transport data are given in tabular form for each coastal chain in sequence including data for both measured and baroclinic geostrophic transport. Values are given for total measured transport, for transport above and below the thermocline and for that within (under "in") and outside (under "out") of the "jet cores."

In section III daily along-shore transport values are included in the lower right corner of the cross-sectional plots. Positive (eastward) and negative (westward) values plus the total transport are given in 10^4 m^3/sec for all "runs" of available data. Care should be exercised in using runs with only a few stations of data. If a superscript appears after the transport value it indicates the number of stations used in the calculation. If none appears then the full number of stations was sampled for that run.

Daily along-shore transport difference or "barotropic" transport appears on the lower right of the temperature cross-section page. As discussed above this is measured transport minus the baroclinic geostrophic transport.

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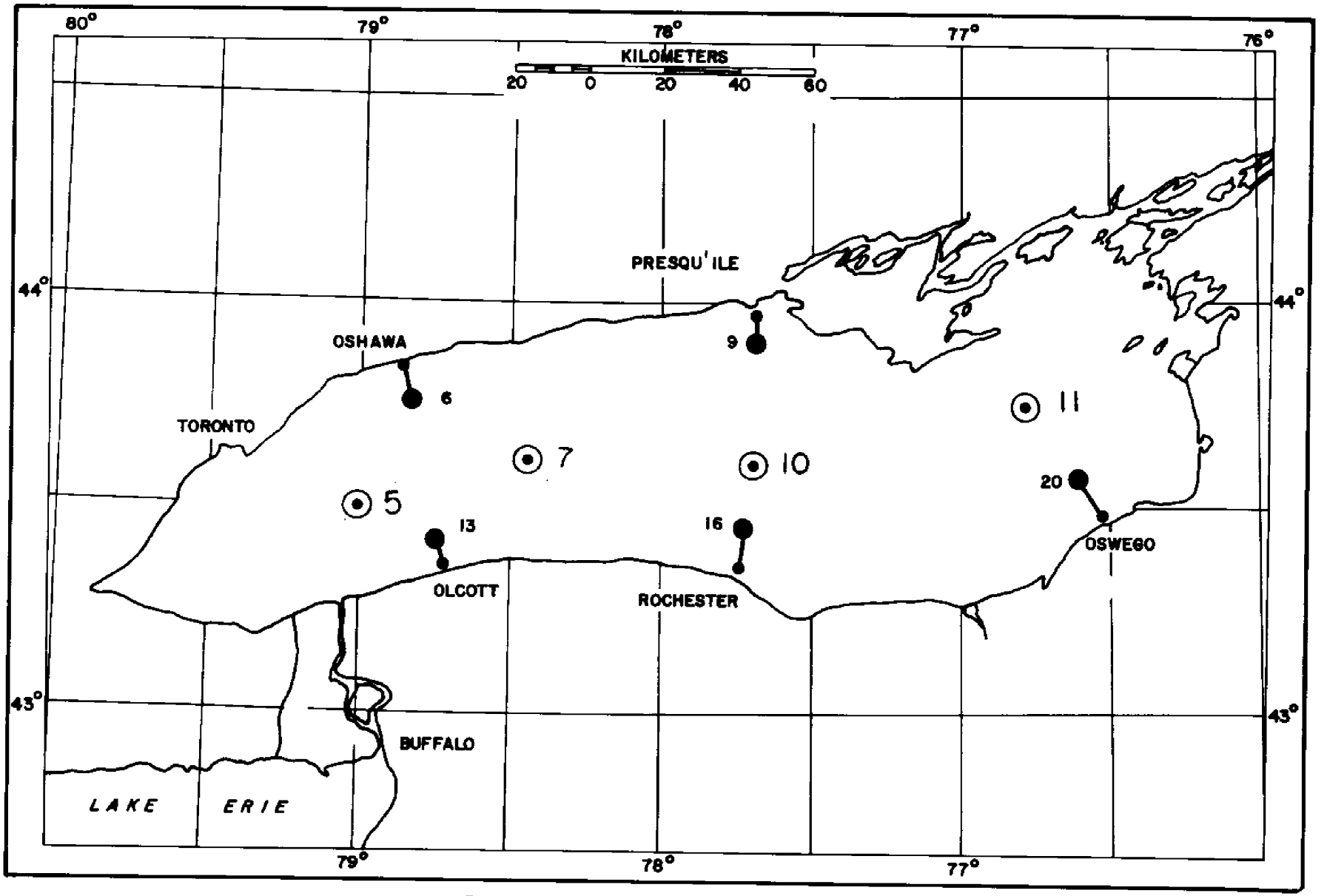


Figure 1. Coastal chain locations

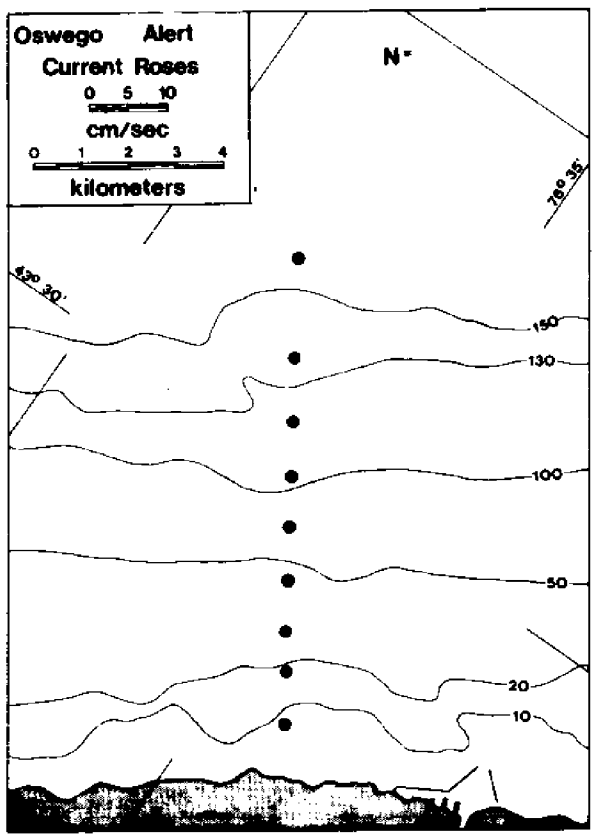


Figure 2. Oswego coastal chain

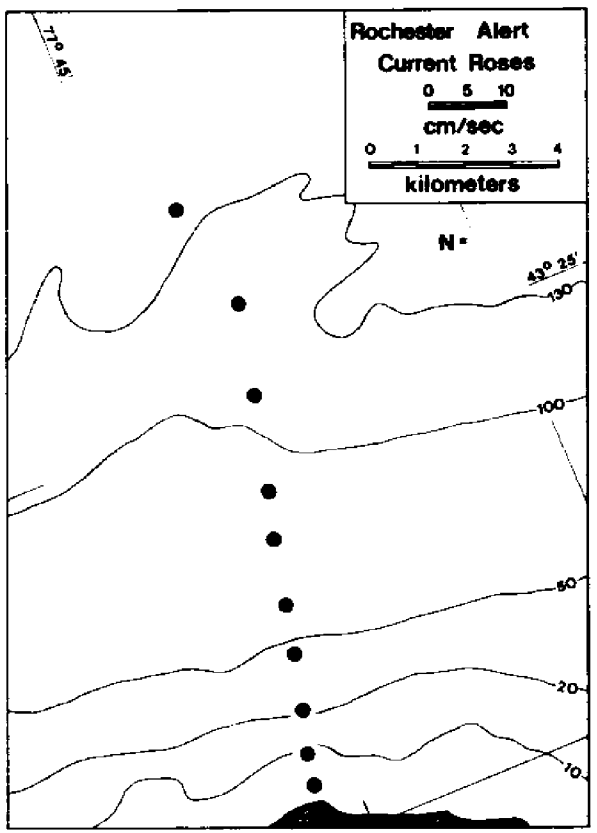


Figure 3. Rochester coastal chain

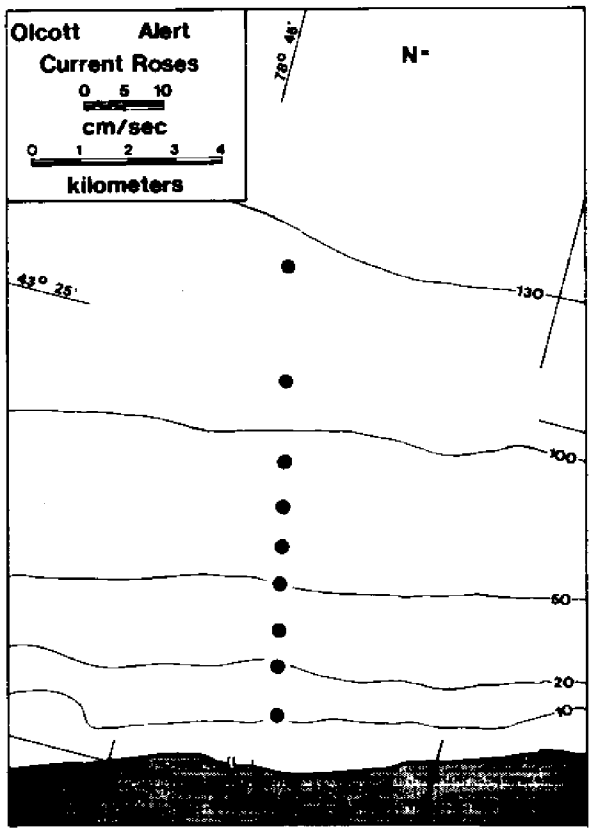


Figure 4. Olcott coastal chain

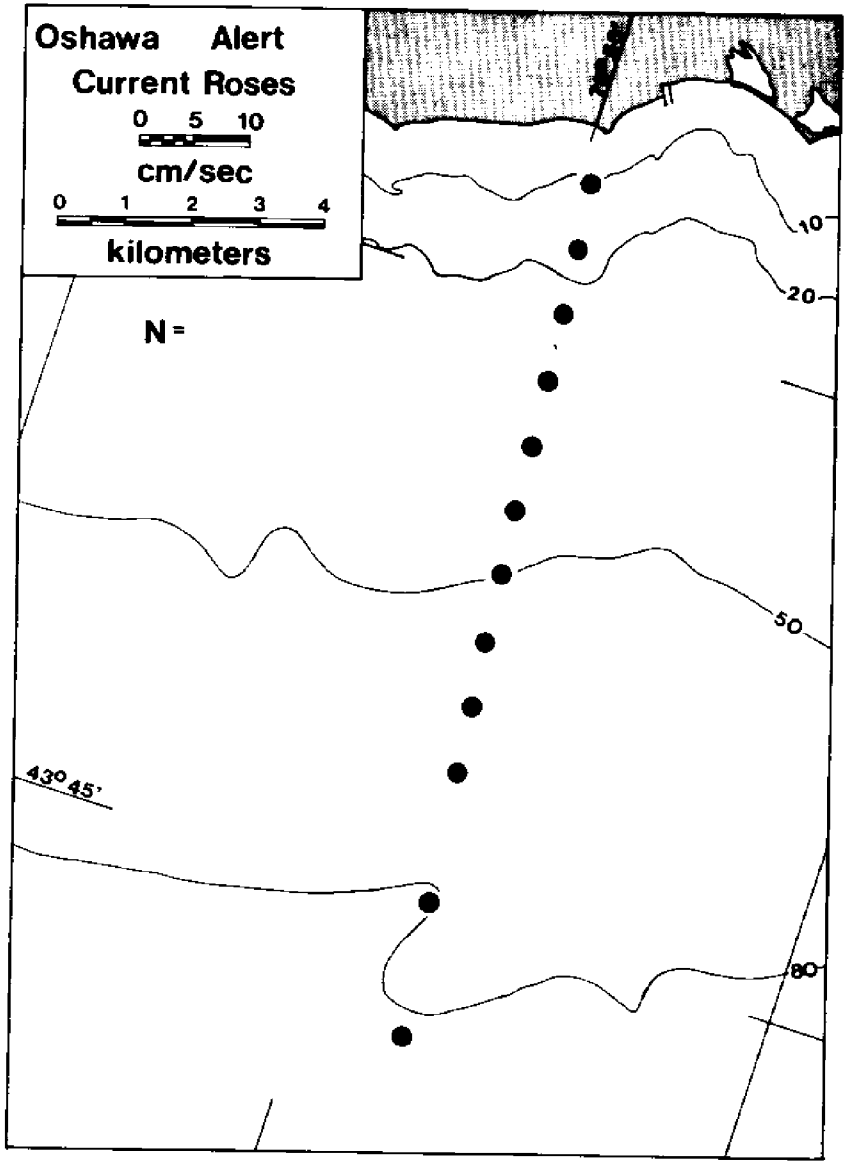


Figure 5. Oshawa coastal chain

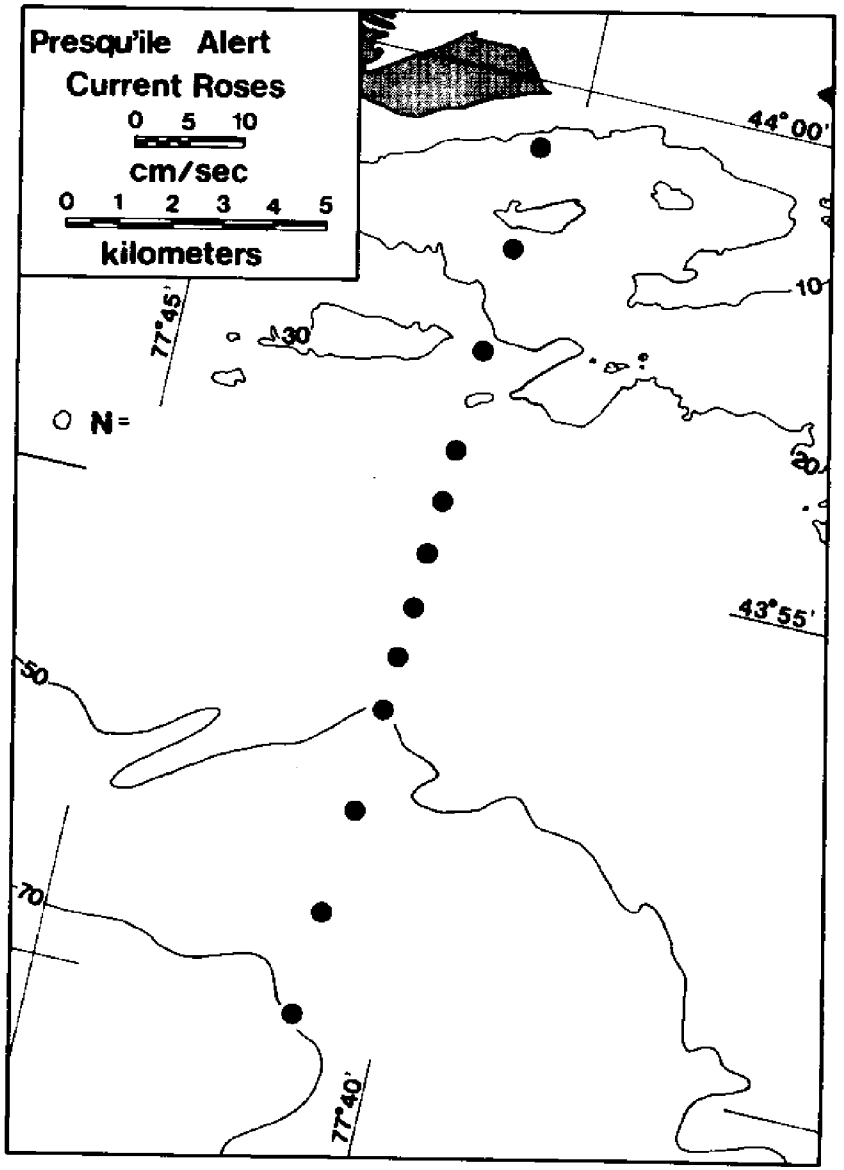
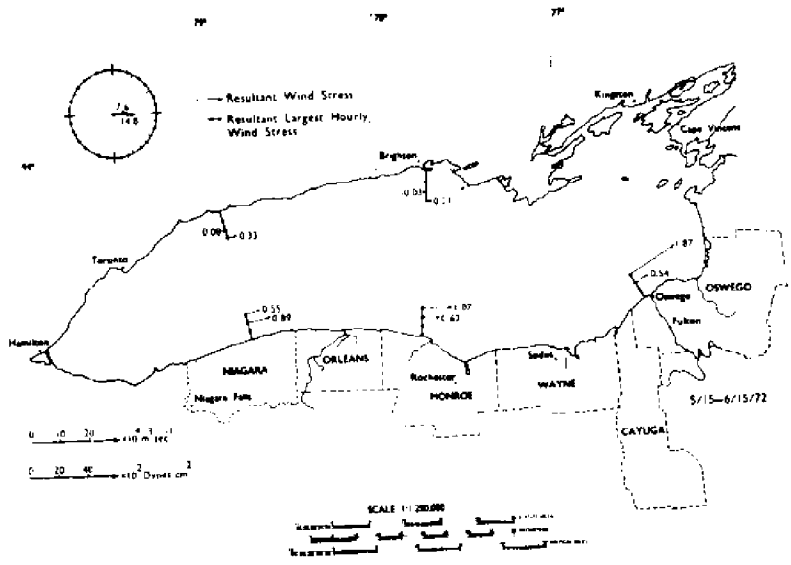
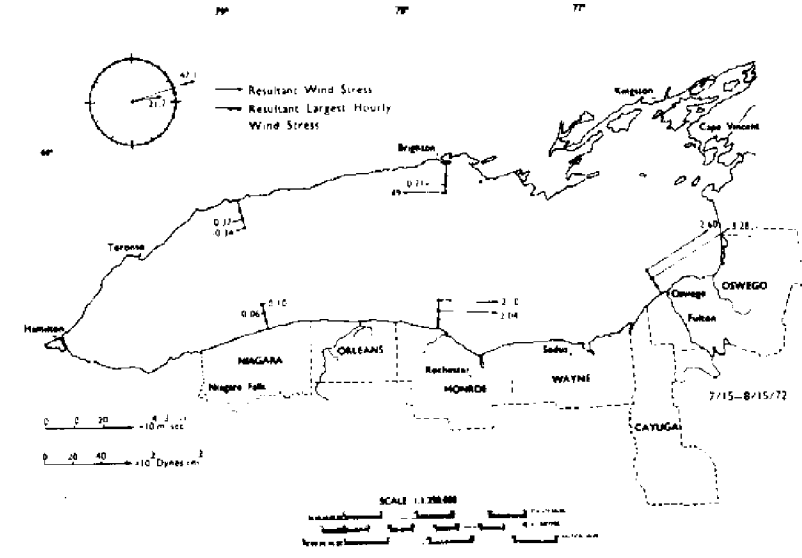
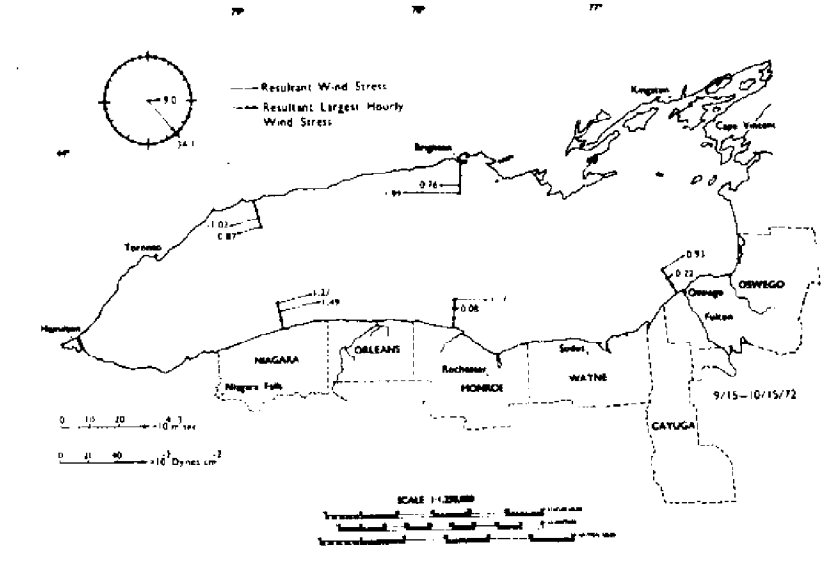


Figure 6. Presqu'ile coastal chain


Resultant Wind Stress
Resultant Largest Hourly Wind Stress
Kingston
Cape Vincent
Brighton
Toronto
Hamilton
OSWEGO
Oswego
Fulton
NIAGARA
Niagara Falls
ORLEANS
Rochester
MONROE
Sodus
WAYNE
CAYUGA
5/15—6/15/72
SCALE


Resultant Wind Stress
Resultant Largest Hourly Wind Stress
Kingston
Cape Vincent
Brighton
Toronto
Hamilton
OSWEGO
Oswego
Fulton
NIAGARA
Niagara Falls
ORLEANS
Rochester
MONROE
Sodus
WAYNE
CAYUGA
7/15—8/15/72
SCALE


Resultant Wind Stress
Resultant Largest Hourly Wind Stress
Kingston
Cape Vincent
Brighton
Toronto
Hamilton
OSWEGO
Oswego
Fulton
NIAGARA
Niagara Falls
ORLEANS
Rochester
MONROE
Sodus
WAYNE
CAYUGA
9/15—10/15/72
SCALE

SECTION I

PLOTS: DAILY EASTWARD WIND STRESS

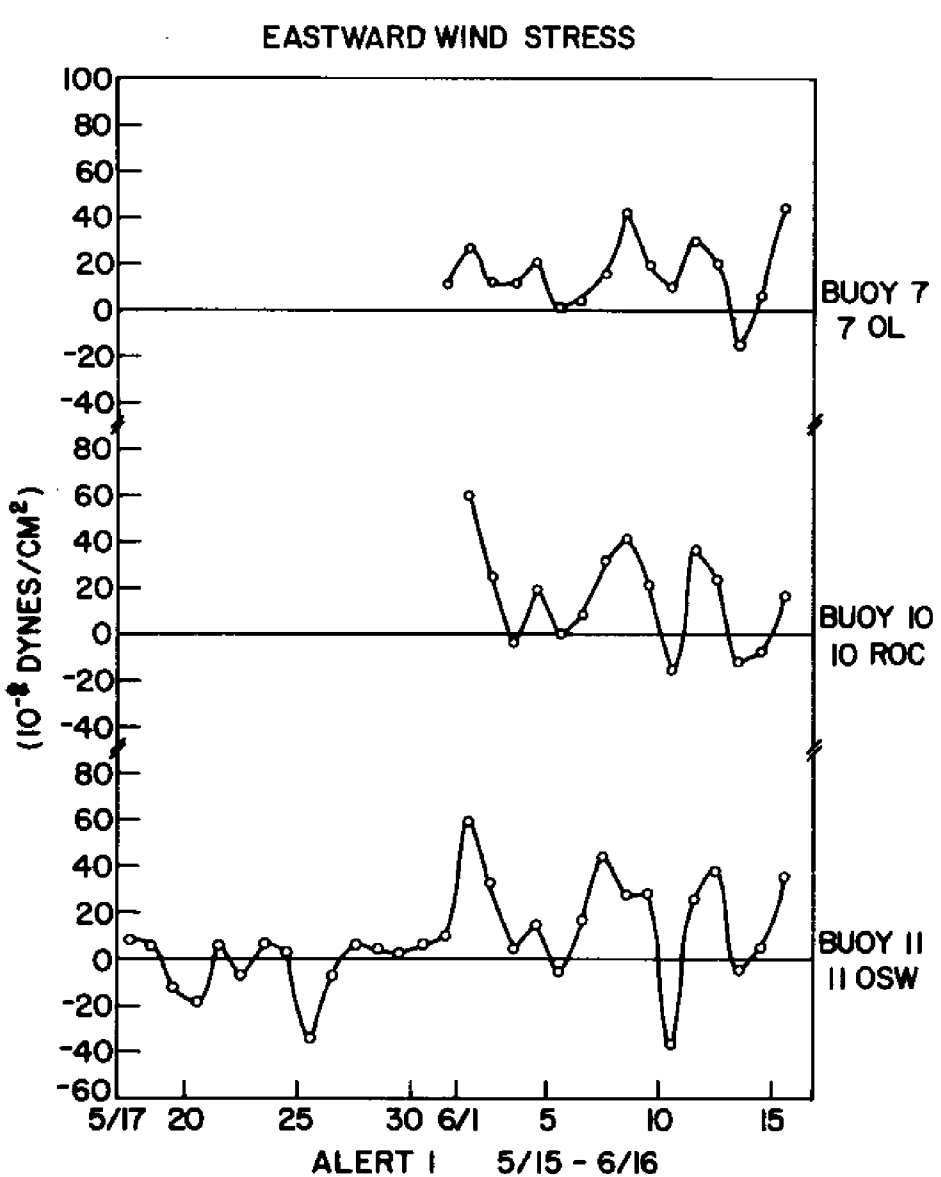
TOTAL DAILY MEASURED AND BAROCLINIC GEOSTROPHIC ALONGSHORE TRANSPORT

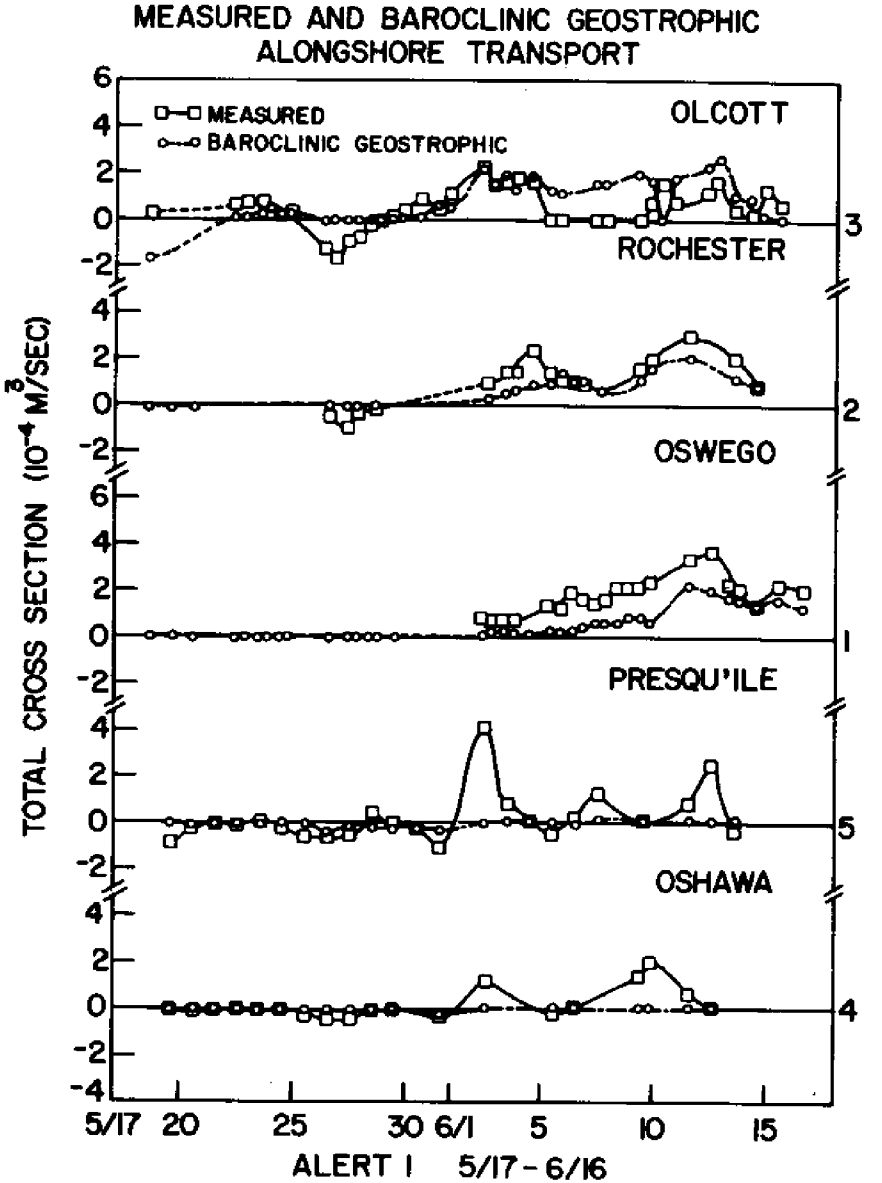
DAILY MEASURED AND BAROCLINIC GEOSTROPHIC ALONGSHORE TRANSPORT ABOVE THE THERMOCLINE

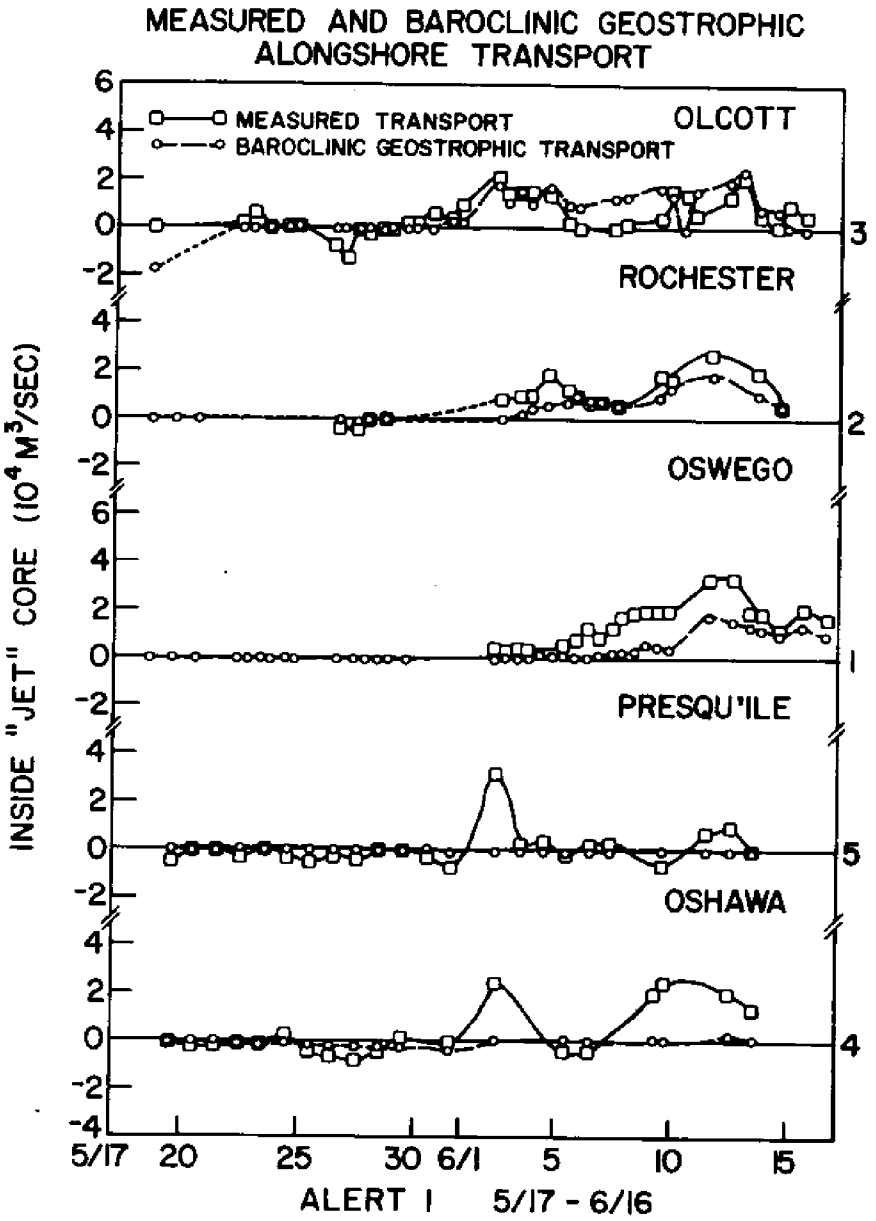
DAILY MEASURED AND BAROCLINIC GEOSTROPHIC ALONGSHORE TRANSPORT INSIDE THE "JET" CORES

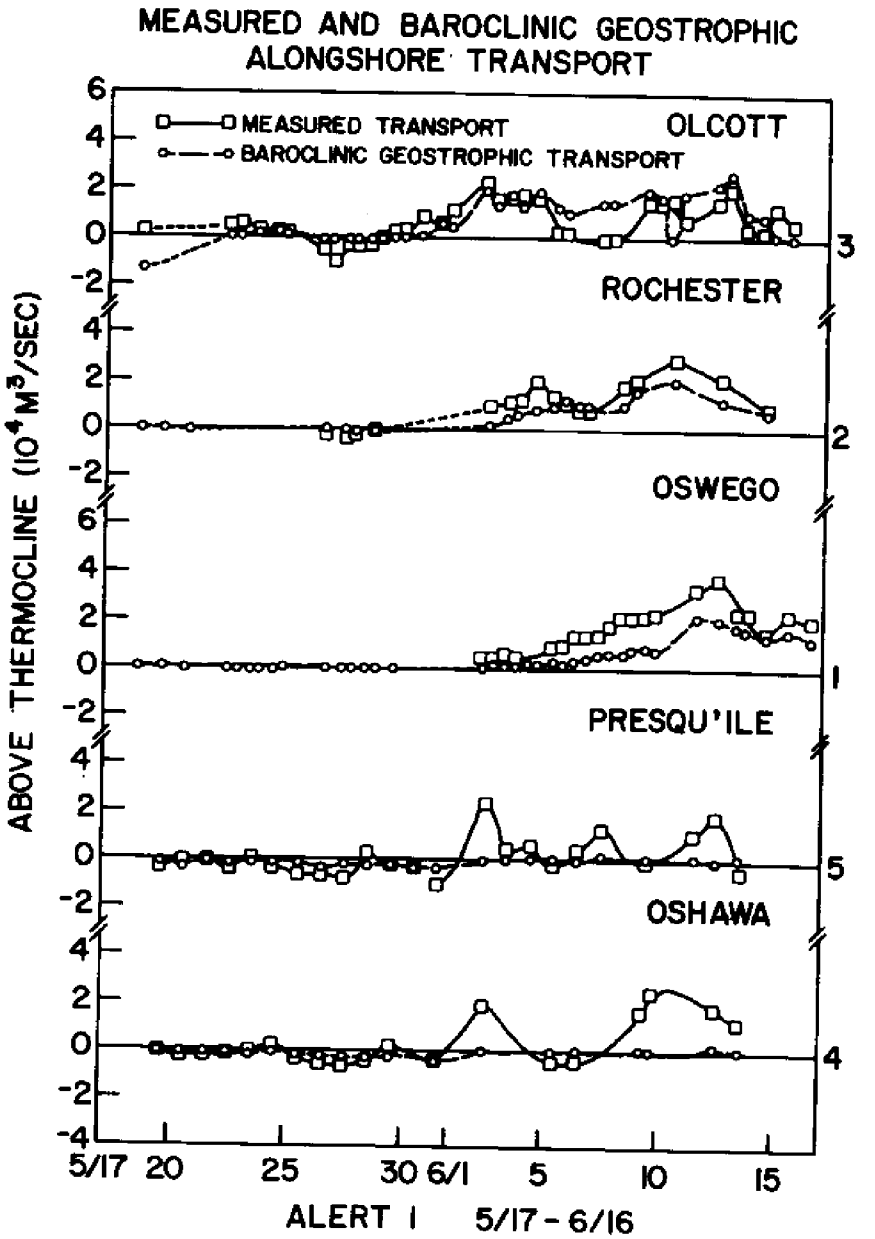
DAILY POSITIVE AND NEGATIVE MEASURED ALONGSHORE TRANSPORT

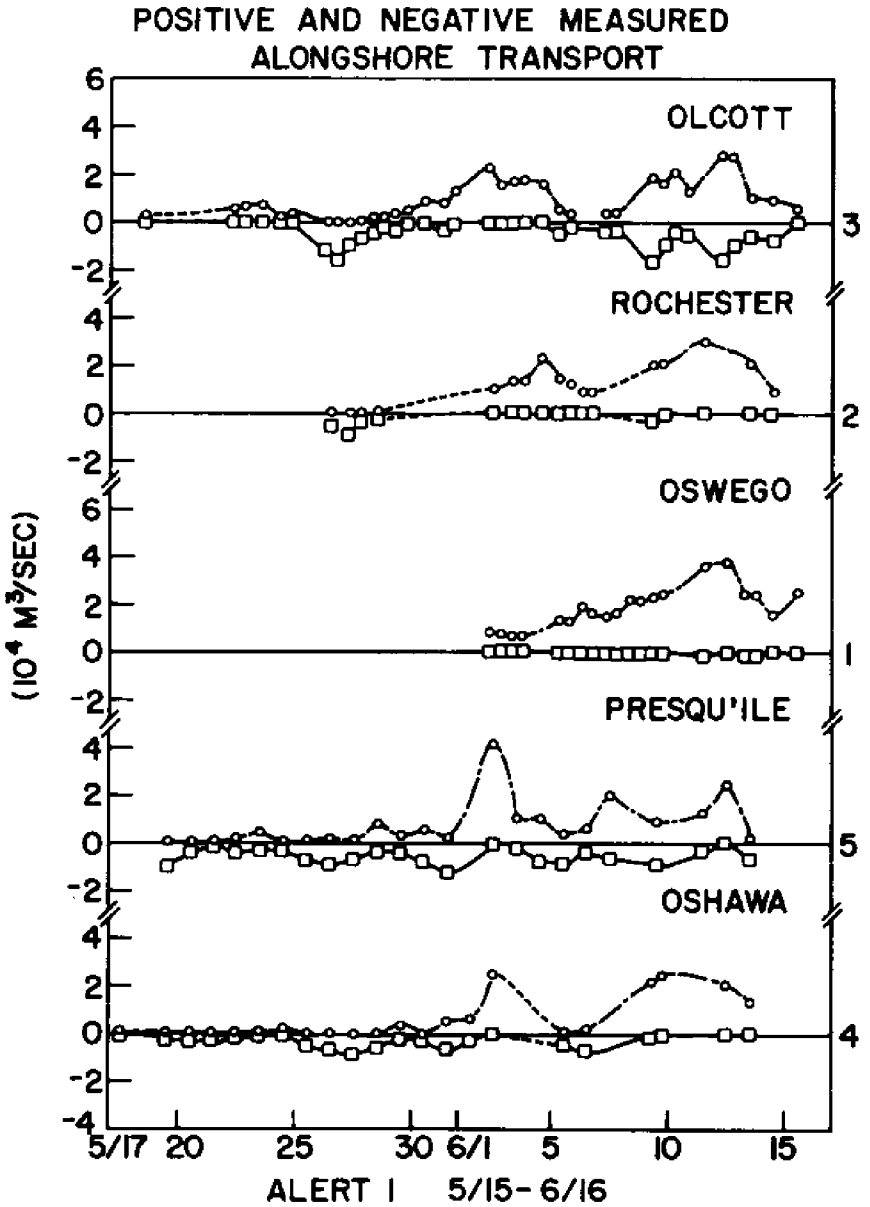
DAILY "BAROTROPIC" (MEASURED - BAROCLINIC GEOSTROPHIC) ALONGSHORE TRANSPORT

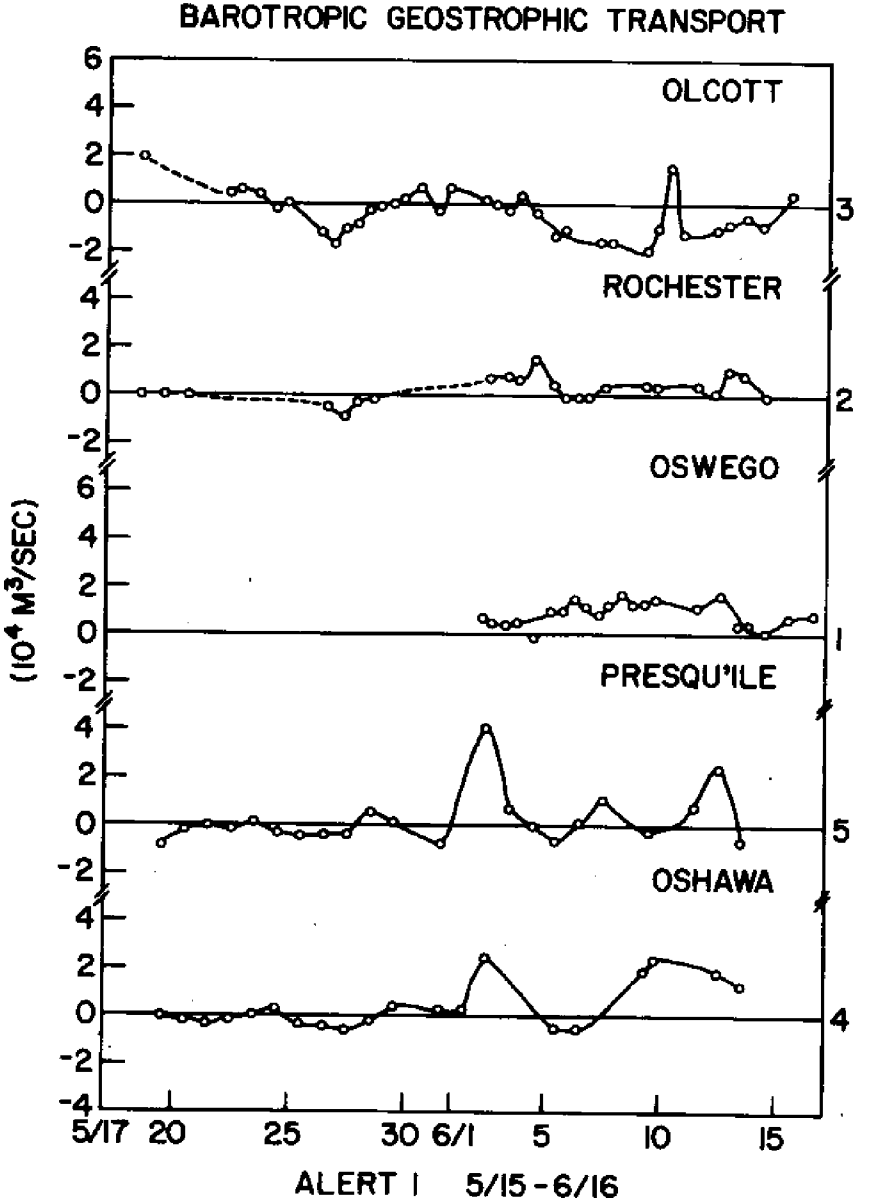

EASTWARD WIND STRESS
(10⁻⁸ DYNES/CM²)
BUOY 7
7 OL
BUOY 10
10 ROC
BUOY 11
11 OSW
5/17 20 25 30 6/1 5 10 15
ALERT I 5/15 - 6/16

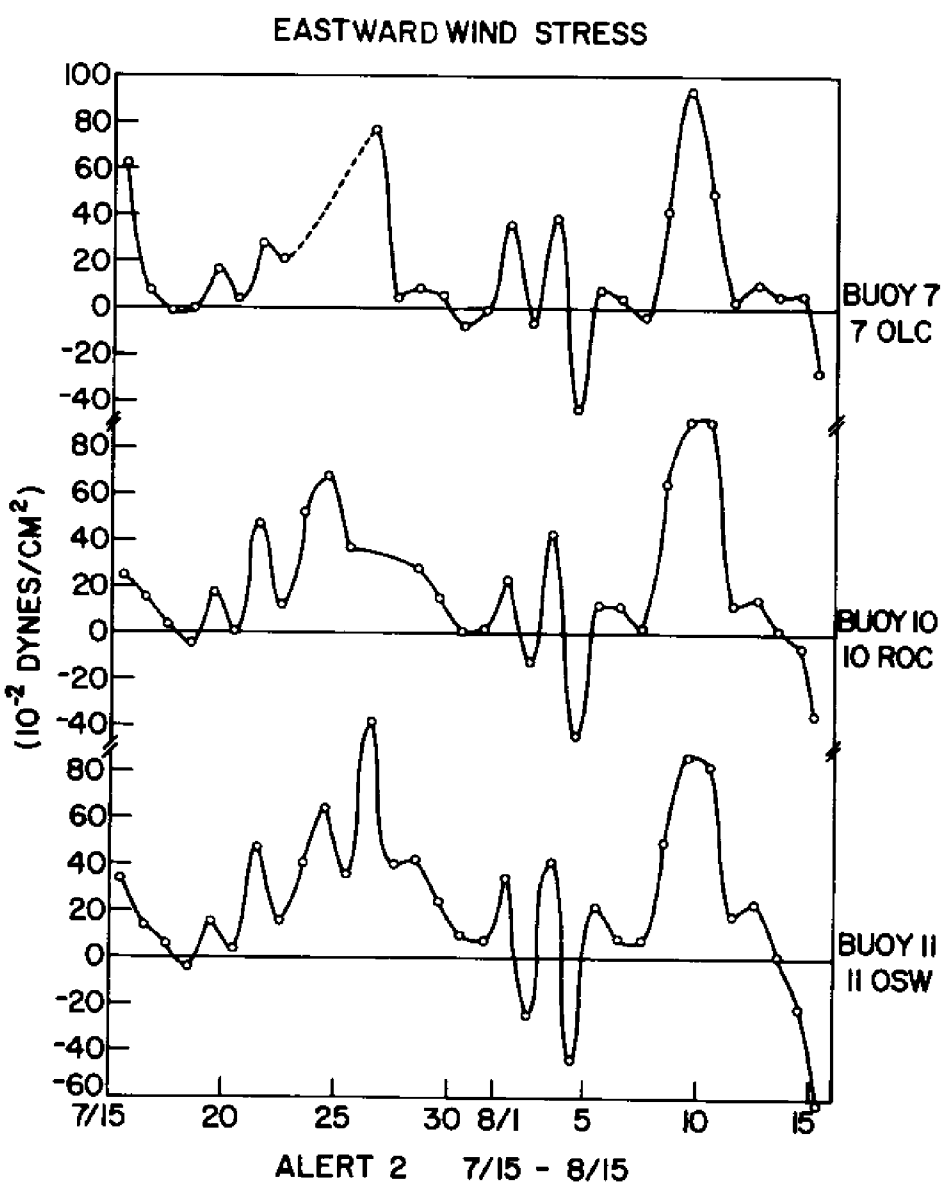

MEASURED AND BAROCLINIC GEOSTROPHIC
ALONGSHORE TRANSPORT
MEASURED
BAROCLINIC GEOSTROPHIC
OLCOTT
ROCHESTER
OSWEGO
PRESQU'ILE
OSHAWA
TOTAL CROSS SECTION (10⁻⁴ M³/SEC)
5/17 20 25 30 6/1 5 10 15
ALERT I 5/17 - 6/16

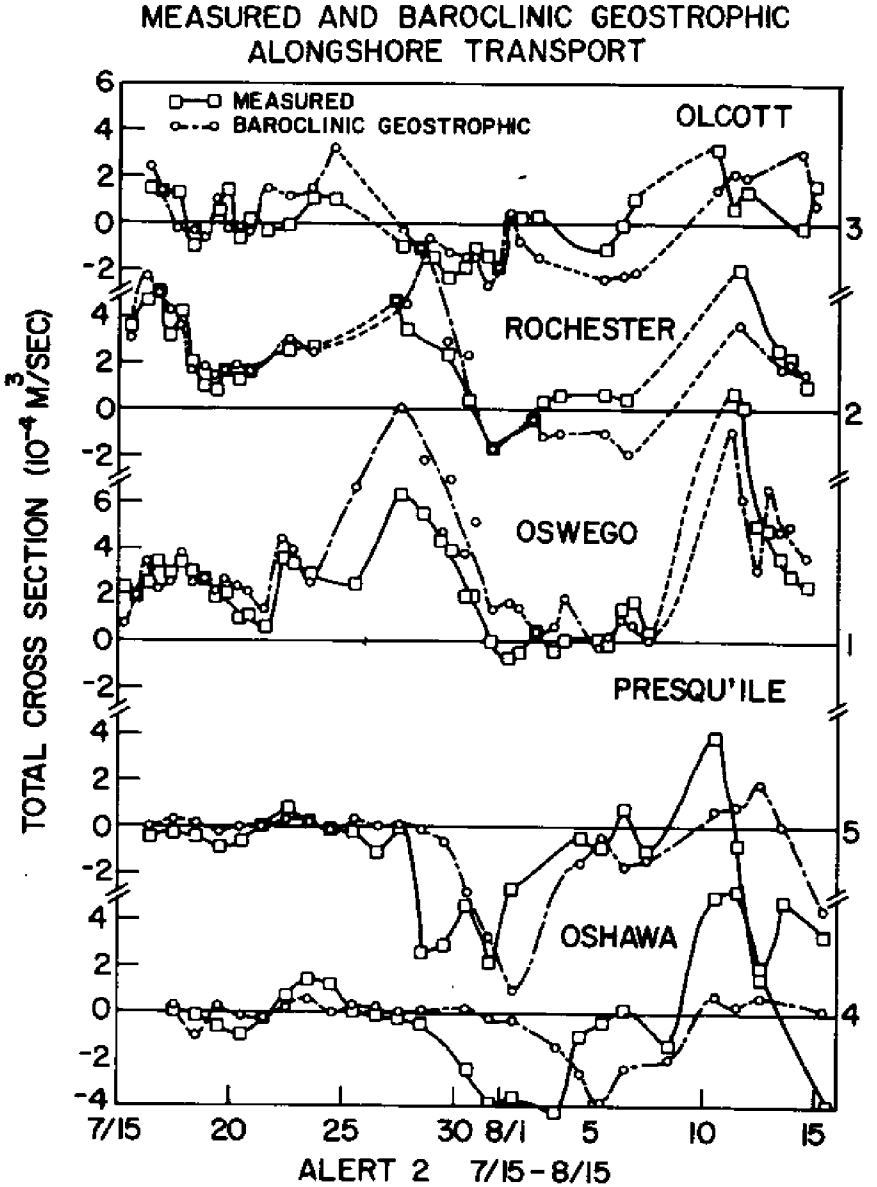

MEASURED AND BAROCLINIC GEOSTROPHIC ALONGSHORE TRANSPORT
MEASURED TRANSPORT
BAROCLINIC GEOSTROPHIC TRANSPORT
OLCOTT
ROCHESTER
OSWEGO
PRESQU'ILE
OSHAWA
INSIDE "JET" CORE (10⁴M³/SEC)
5/17 20 25 30 6/1 5 10 15
ALERT I 5/17 - 6/16

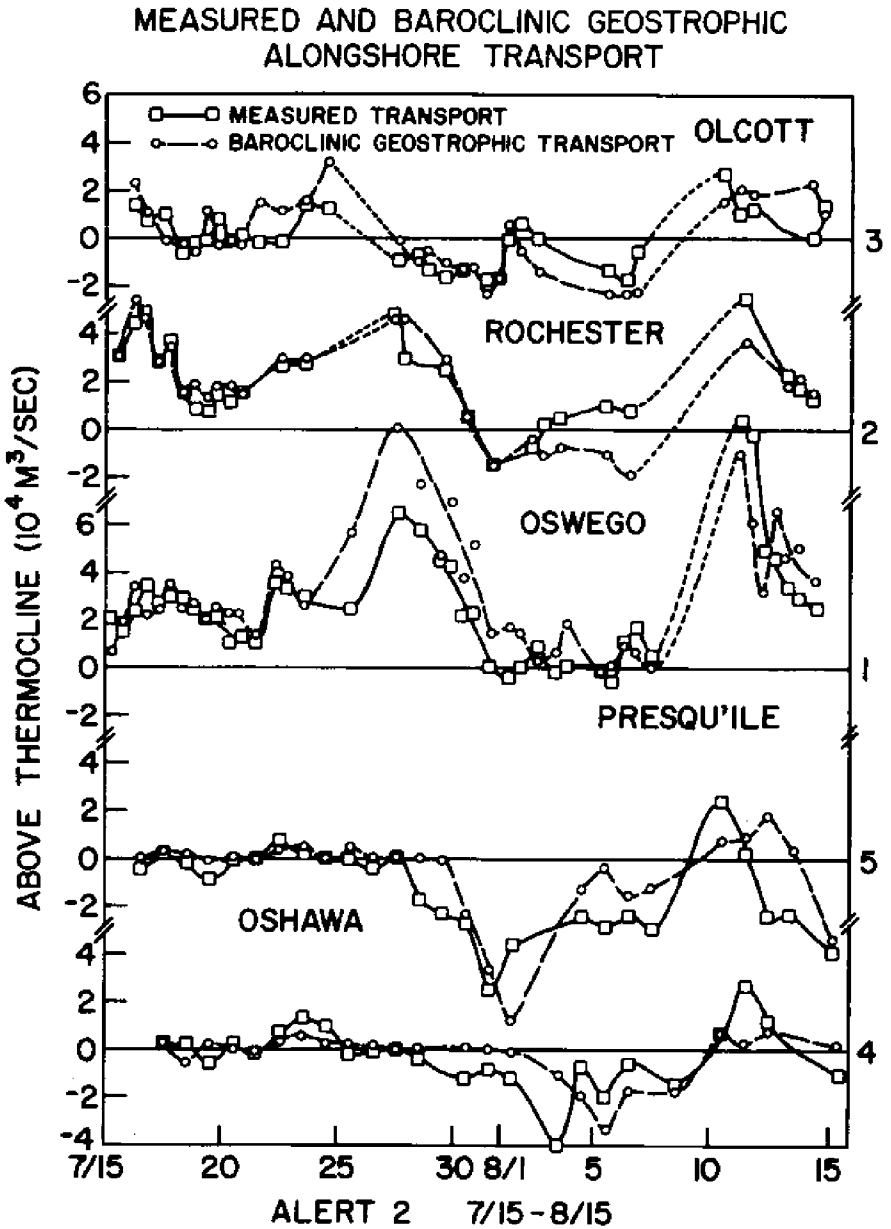

MEASURED AND BAROCLINIC GEOSTROPHIC ALONGSHORE TRANSPORT
MEASURED TRANSPORT
BAROCLINIC GEOSTROPHIC TRANSPORT
OLCOTT
ROCHESTER
OSWEGO
PRESQU'ILE
OSHAWA
ABOVE THERMOCLINE (10⁴M³/SEC)
5/17 20 25 30 6/1 5 10 15
ALERT I 5/17 - 6/16


POSITIVE AND NEGATIVE MEASURED
ALONGSHORE TRANSPORT
OLCOTT
ROCHESTER
OSWEGO
PRESQU'ILE
OSHAWA
(10⁴ M³/SEC)
5/17 20 25 30 6/1 5 10 15
ALERT I 5/15-6/16


BAROTROPIC GEOSTROPHIC TRANSPORT
OLCOTT
ROCHESTER
OSWEGO
PRESQU'ILE
OSHAWA
(10⁴ M³/SEC)
5/17 20 25 30 6/1 5 10 15
ALERT I 5/15-6/16


EASTWARD WIND STRESS
(10-2 DYNES/CM2)
BUOY 7
7 OLC
BUOY 10
10 ROC
BUOY 11
11 OSW
7/15
20
25
30
8/1
5
10
15
ALERT 2 7/15 - 8/15


MEASURED AND BAROCLINIC GEOSTROPHIC
ALONGSHORE TRANSPORT
MEASURED
BAROCLINIC GEOSTROPHIC
TOTAL CROSS SECTION (10-4 M3/SEC)
OLCOTT
ROCHESTER
OSWEGO
PRESQU'ILE
OSHAWA
7/15
20
25
30
8/1
5
10
15
ALERT 2 7/15-8/15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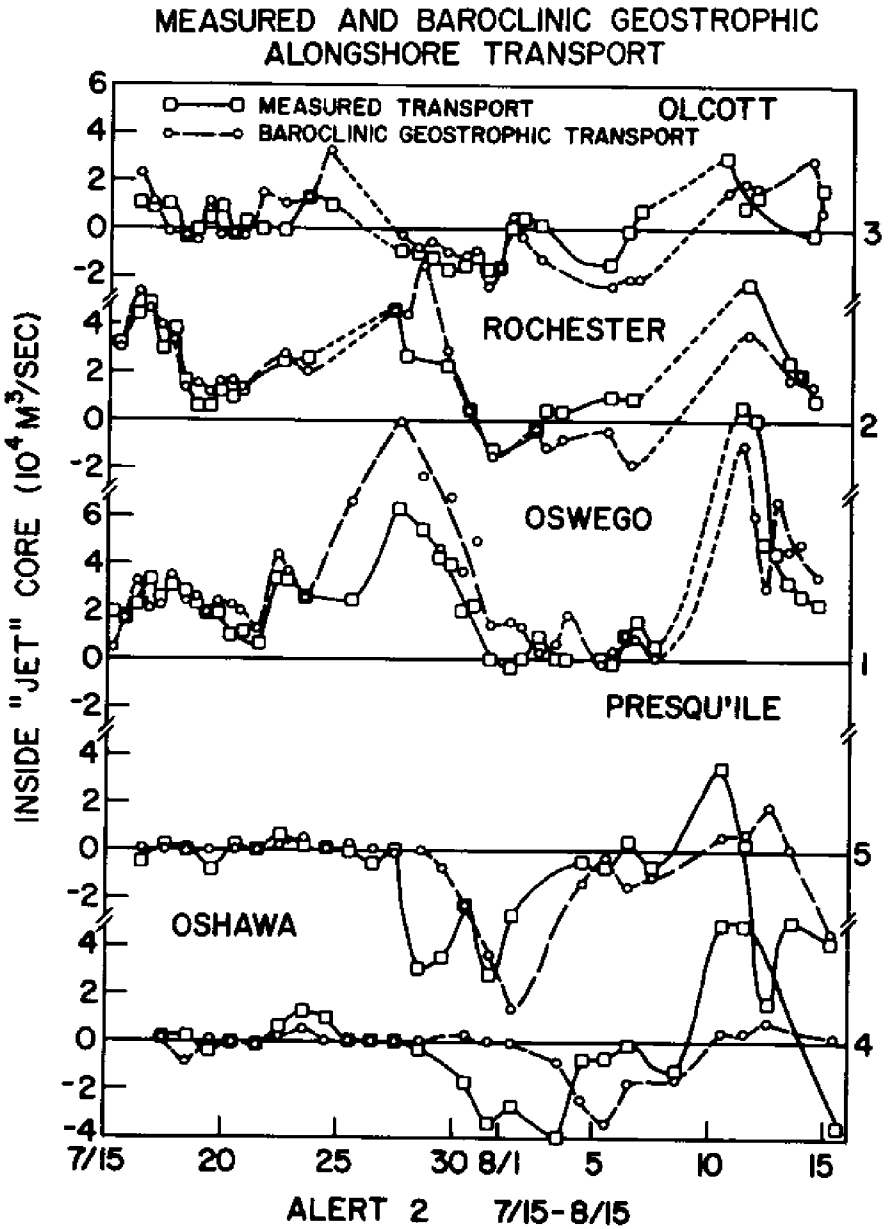
MEASURED TRANSPORT
BAROCLINIC GEOSTROPHIC TRANSPORT
OLCOTT
ROCHESTER
OSWEGO
PRESQU'ILE
OSHAWA
ABOVE THERMOCLINE (10⁴ M³/SEC)
7/15 20 25 30 8/1 5 10 15
ALERT 2 7/15-8/15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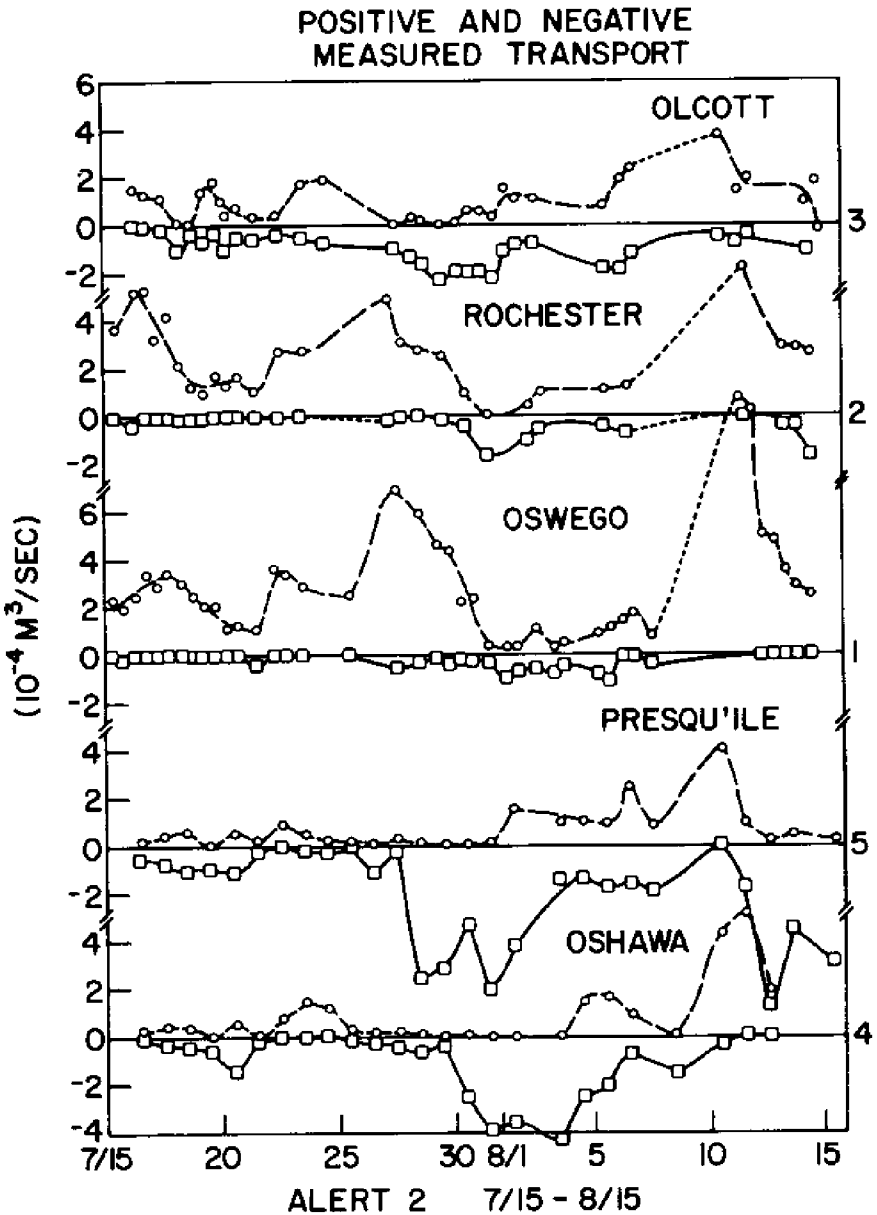
MEASURED TRANSPORT
BAROCLINIC GEOSTROPHIC TRANSPORT
OLCOTT
ROCHESTER
OSWEGO
PRESQU'ILE
OSHAWA
INSIDE "JET" CORE (10⁴ M³/SEC)
7/15 20 25 30 8/1 5 10 15
ALERT 2 7/15-8/15


POSITIVE AND NEGATIVE
MEASURED TRANSPORT
OLCOTT
ROCHESTER
OSWEGO
PRESQU'ILE
OSHAWA
(10⁻⁴ M³/SEC)
7/15
20
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10
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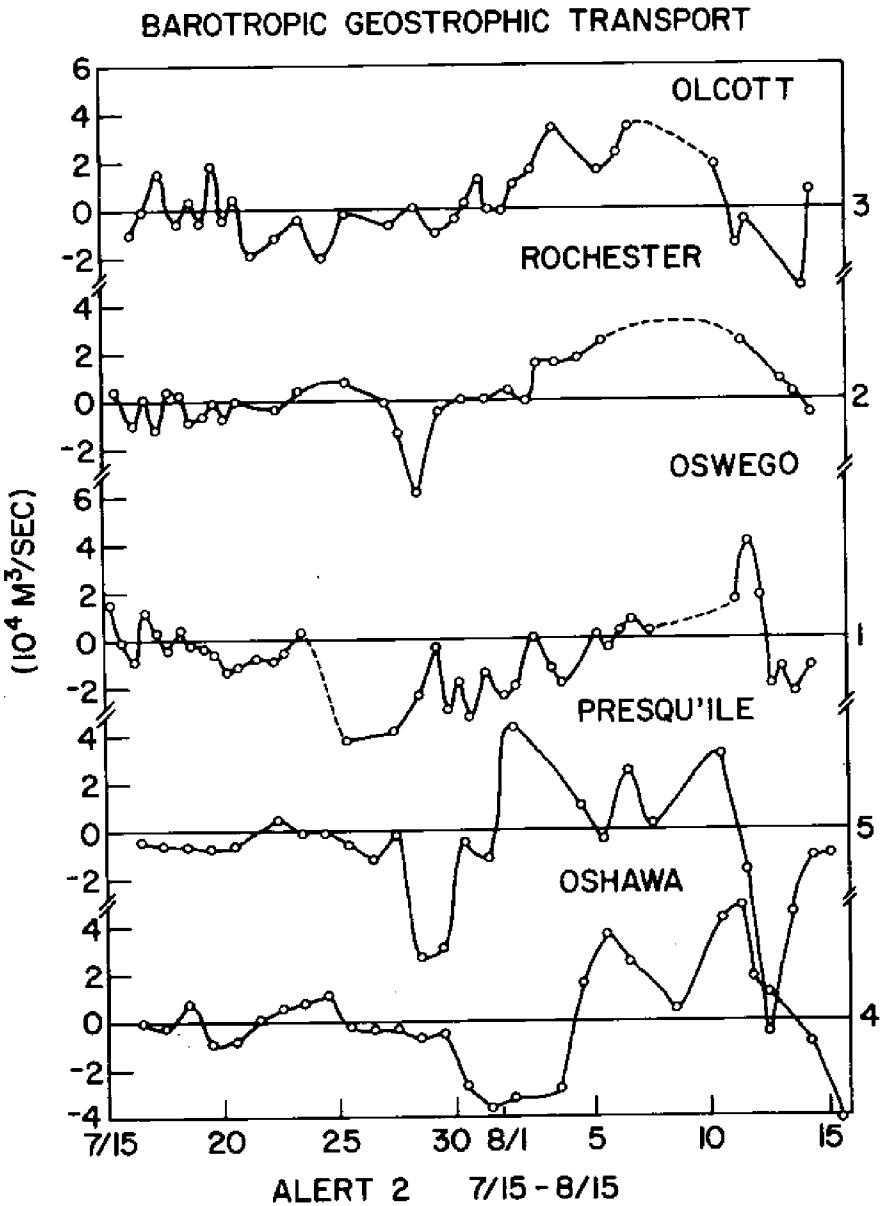
ALERT 2 7/15 - 8/15


BAROTROPIC GEOSTROPHIC TRANSPORT
OLCOTT
ROCHESTER
OSWEGO
PRESQU'ILE
OSHAWA
(10⁴ M³/SEC)
7/15
20
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8/1
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10
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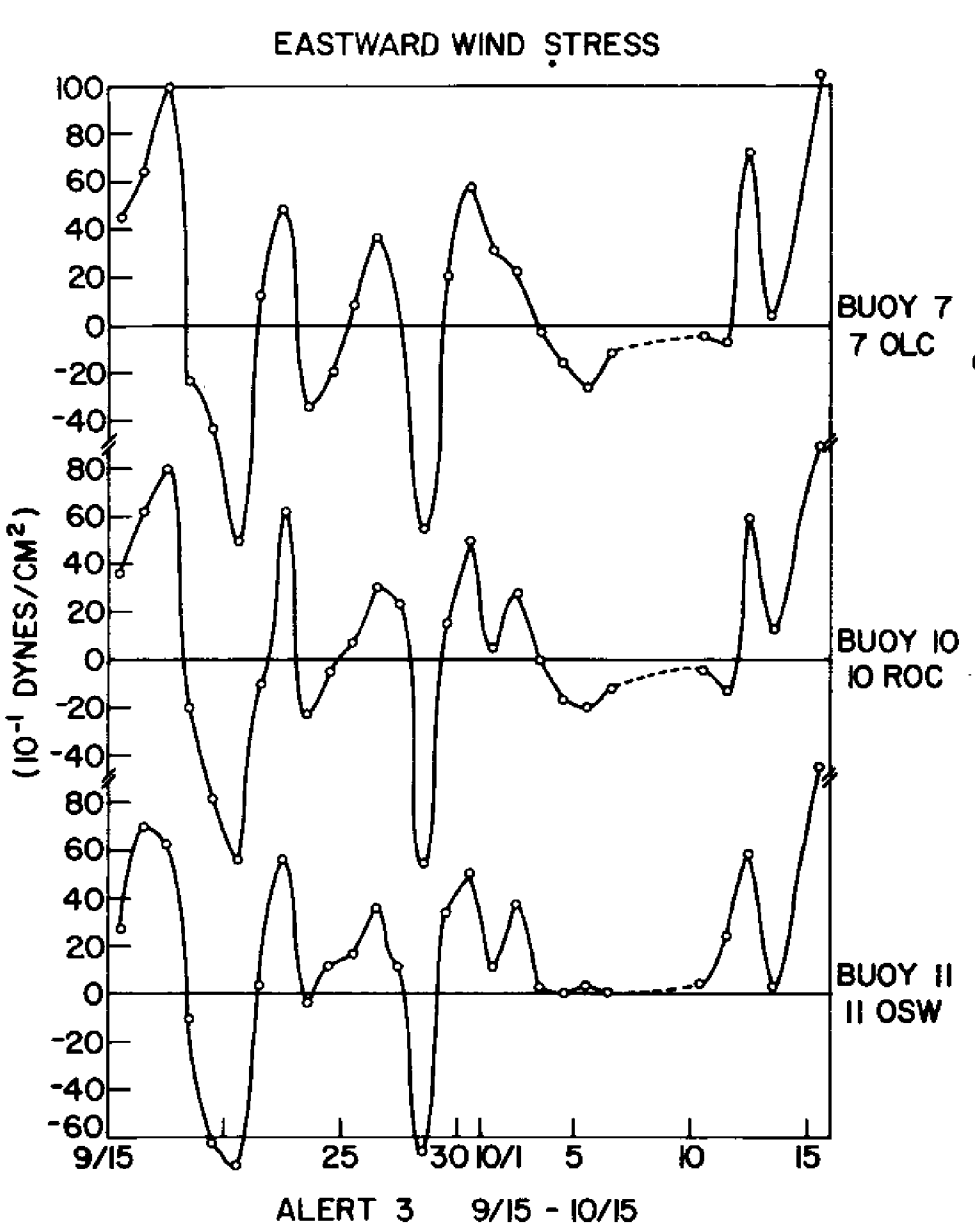
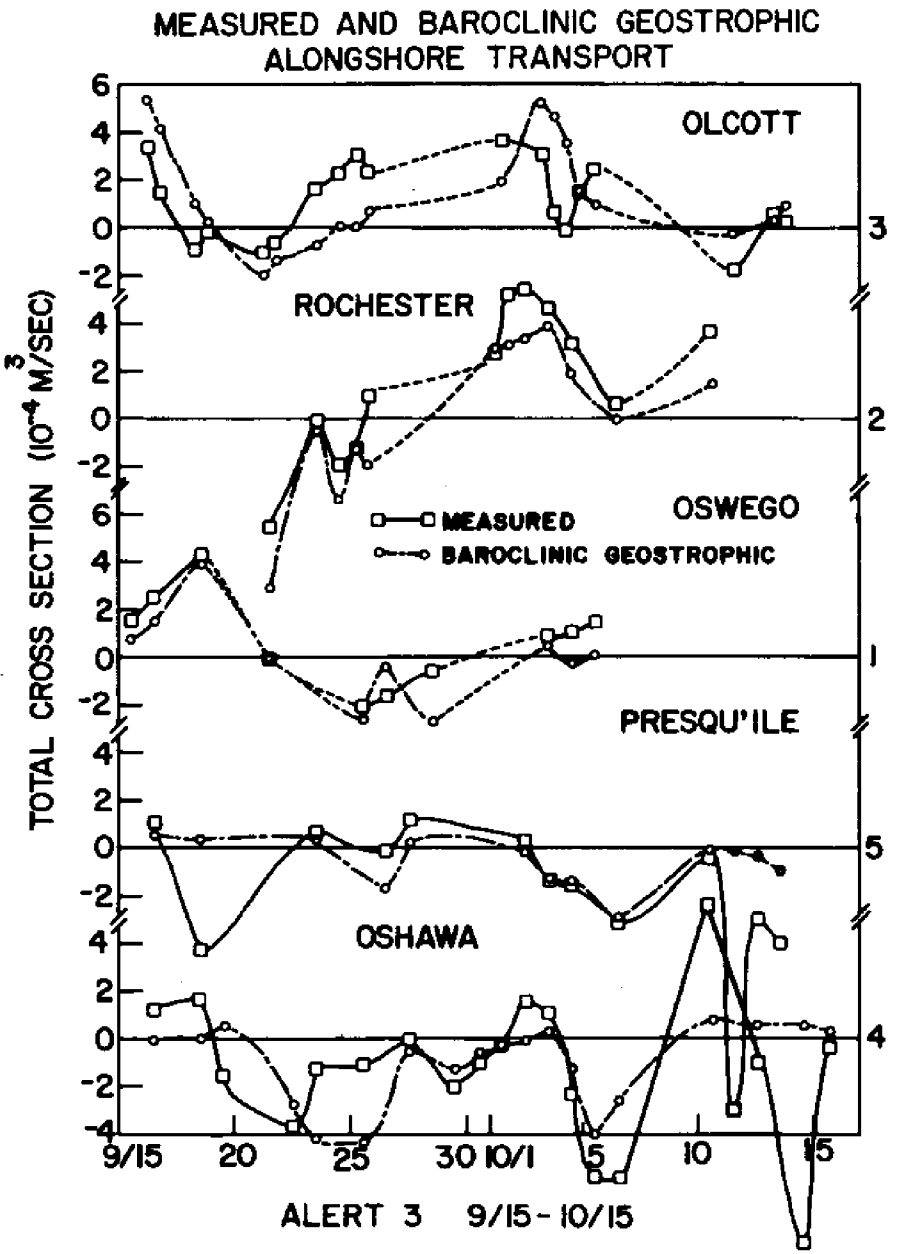
ALERT 2 7/15 - 8/15


EASTWARD WIND STRESS
(10⁻¹ DYNES/CM²)
BUOY 7
7 OLC
BUOY 10
10 ROC
BUOY 11
11 OSW
9/15
25
30
10/1
5
10
15
ALERT 3 9/15 - 10/15


MEASURED AND BAROCLINIC GEOSTROPHIC
ALONGSHORE TRANSPORT
TOTAL CROSS SECTION (10⁻⁴ M³/SEC)
OLCOTT
ROCHESTER
OSWEGO
PRESQU'ILE
OSHAWA
MEASURED
BAROCLINIC GEOSTROPHIC
9/15
20
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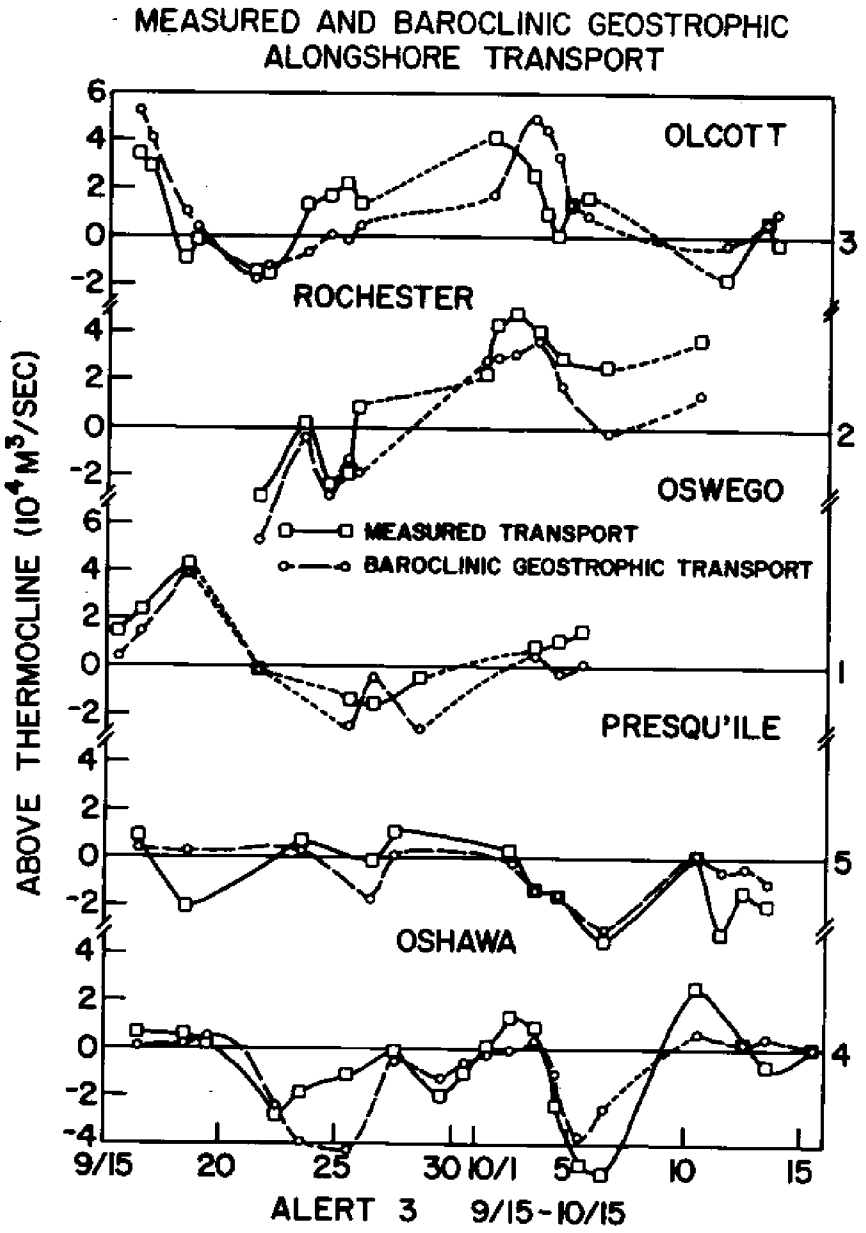
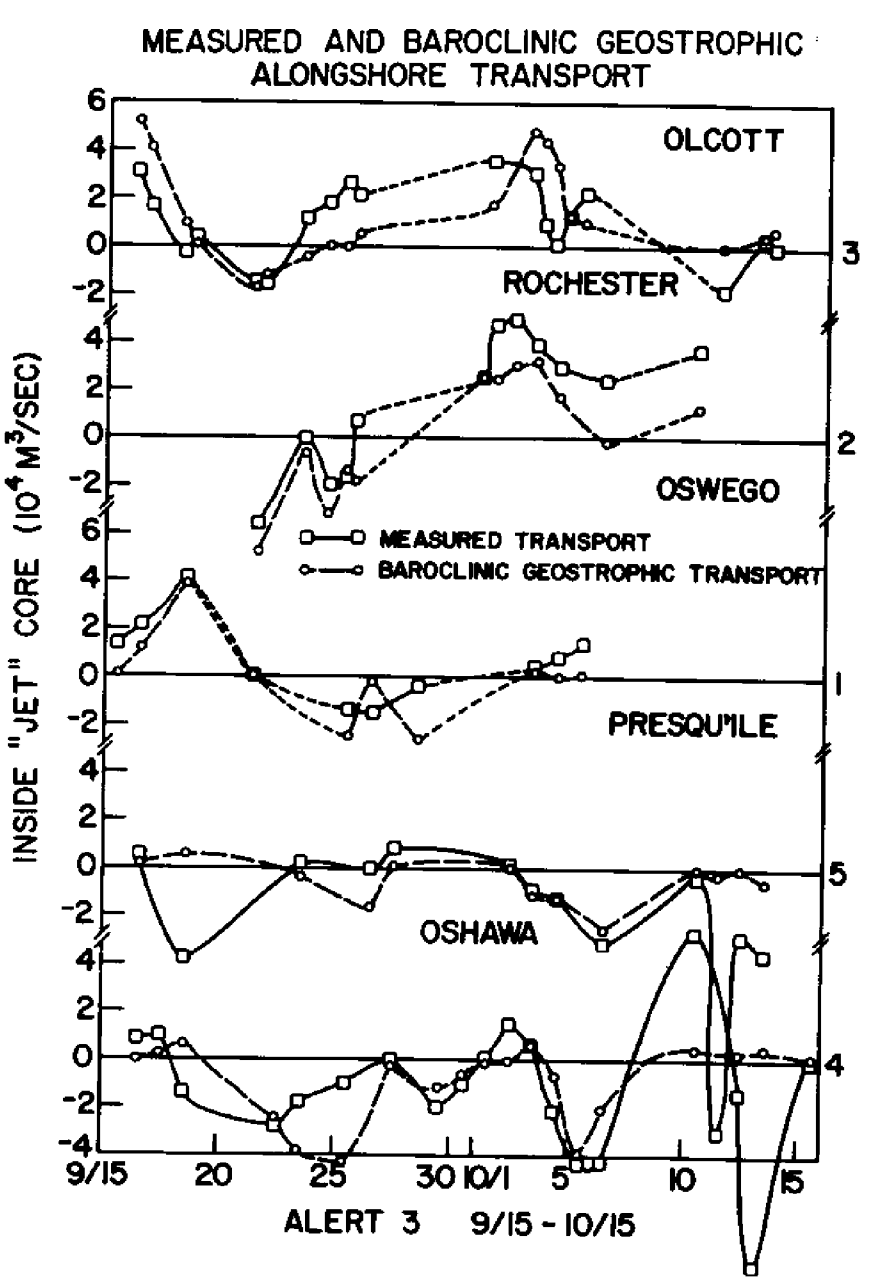
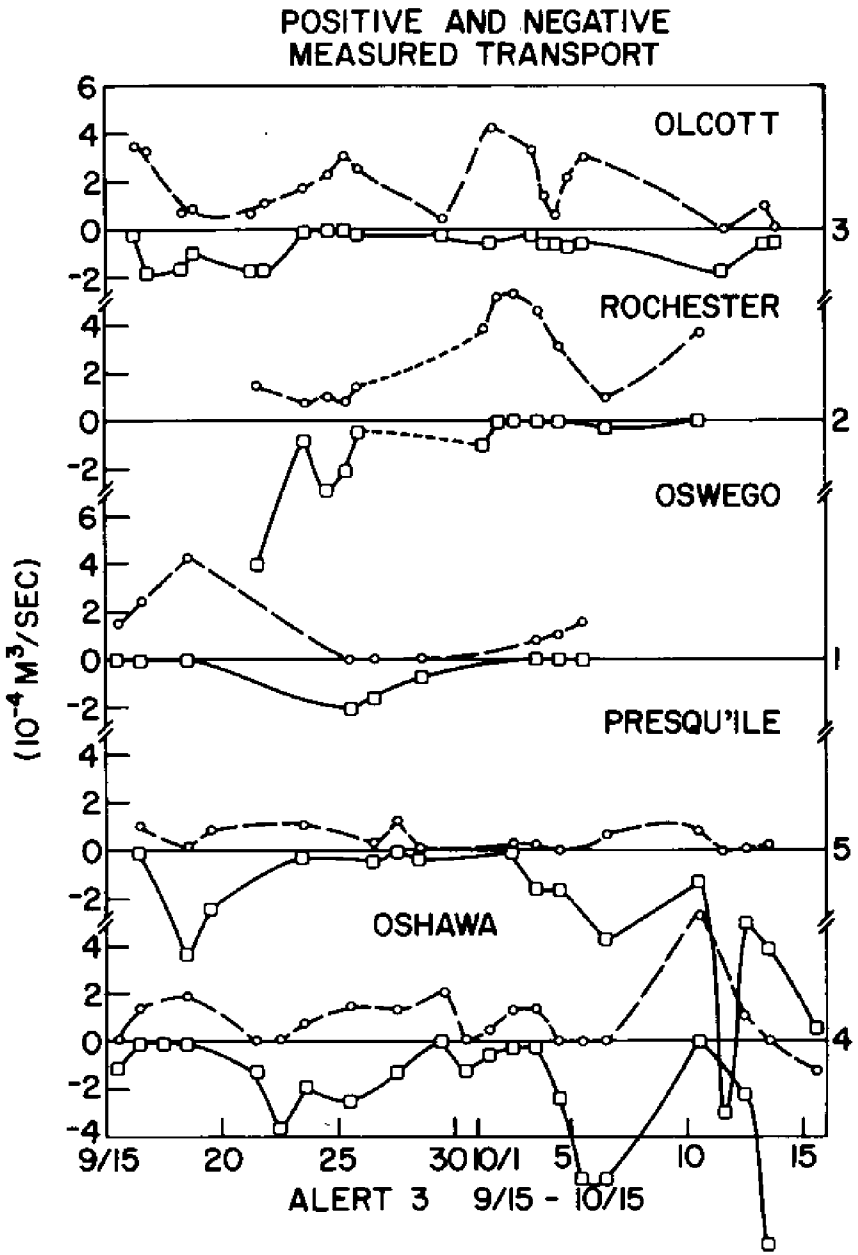
ALERT 3 9/15 - 10/15


MEASURED AND BAROCLINIC GEOSTROPHIC ALONGSHORE TRANSPORT
OLCOTT
ROCHESTER
OSWEGO
PRESQU'ILE
OSHAWA
MEASURED TRANSPORT
BAROCLINIC GEOSTROPHIC TRANSPORT
ABOVE THERMOCLINE (10⁴ M³/SEC)
9/15 20 25 30 10/1 5 10 15
ALERT 3 9/15 - 10/15


MEASURED AND BAROCLINIC GEOSTROPHIC ALONGSHORE TRANSPORT
OLCOTT
ROCHESTER
OSWEGO
PRESQU'ILE
OSHAWA
MEASURED TRANSPORT
BAROCLINIC GEOSTROPHIC TRANSPORT
INSIDE "JET" CORE (10⁴ M³/SEC)
9/15 20 25 30 10/1 5 10 15
ALERT 3 9/15 - 10/15


POSITIVE AND NEGATIVE
MEASURED TRANSPORT
OLCOTT
ROCHESTER
OSWEGO
PRESQU'ILE
OSHAWA
(10⁻⁴ M³/SEC)
9/15
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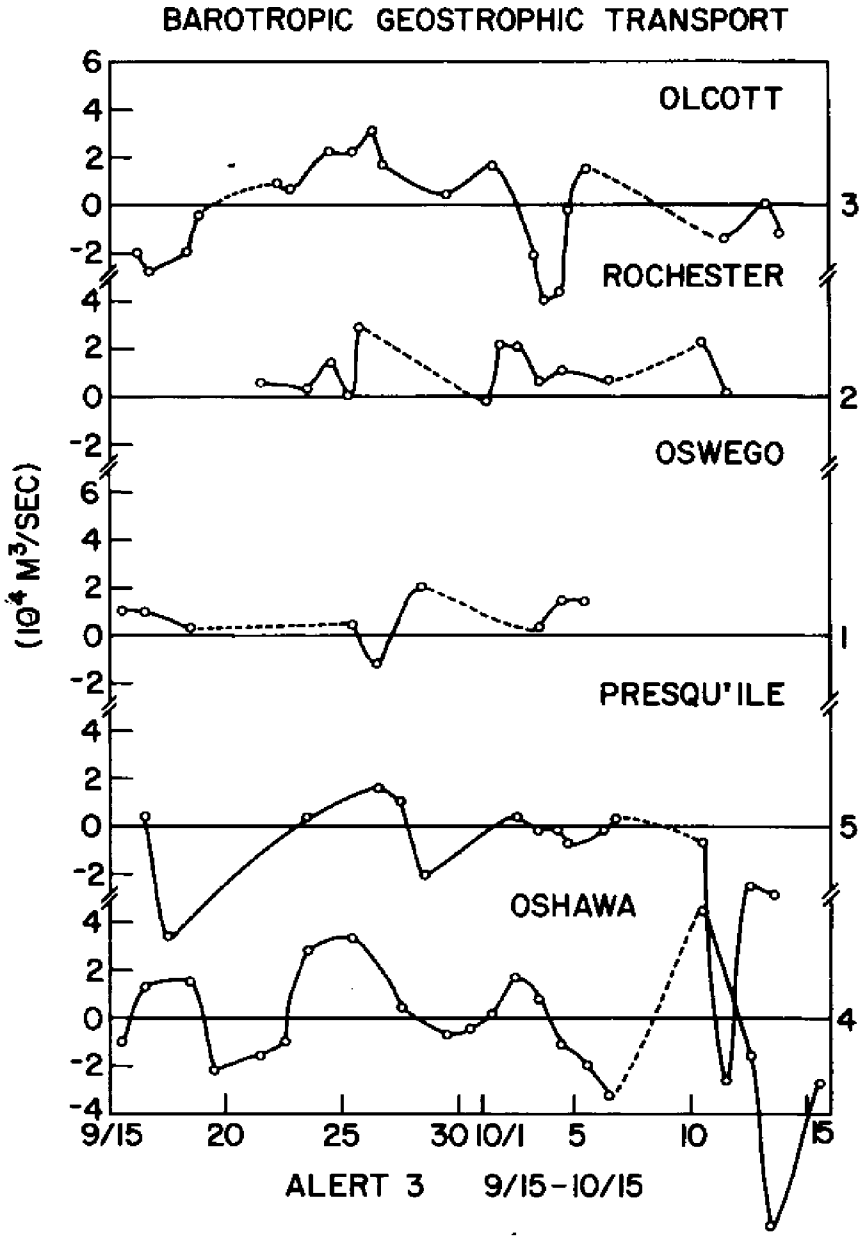
ALERT 3 9/15 - 10/15


BAROTROPIC GEOSTROPHIC TRANSPORT
OLCOTT
ROCHESTER
OSWEGO
PRESQU'ILE
OSHAWA
(10⁻⁴ M³/SEC)
9/15
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10/1
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15
ALERT 3 9/15-10/15

SECTION II

TABLES: DAILY MEASURED TRANSPORT

DAILY BAROCLINIC GEOSTROPHIC TRANSPORT

OSWEGO ALERT I

MEASURED TRANSPORT - 10^4 m^3/sec

DATE	RUN	TOTAL U	ABOVE	BELOW	IN	OUT	# STATIONS
5/17	1	-	-	-	-	-	-
5/18	1	-	-	-	-	-	-
5/19	1	-	-	-	-	-	-
5/20	1	-	-	-	-	-	-
5/22	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
5/23	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
5/24	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
5/26	1	-	-	-	-	-	-
5/27	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
5/28	1	-	-	-	-	-	-
	2	-	-	-	-	-	-
5/29	1	-	-	-	-	-	-
6/2	1	0.84	0.53	0.31	0.52	0.32	6
	2	0.73	0.53	0.21	0.30	0.43	7
6/3	1	0.76	0.59	0.17	0.39	0.37	7
	2	0.72	0.54	0.19	0.40	0.32	7
6/4	1	0.20	0.20	0.0	0.20	0.0	5
	2	-	-	-	-	-	4
6/5	1	1.37	0.95	0.42	0.58	0.79	8
	2	1.30	0.99	0.31	0.85	0.45	8
6/6	1	1.88	1.44	0.45	1.32	0.57	8
	2	1.47	1.40	0.27	0.89	0.70	8
6/7	1	1.46	1.46	0.0	1.29	0.17	5
	2	1.85	1.85	0.0	1.75	0.09	5
6/8	1	2.22	2.20	0.02	1.87	0.35	6
	2	2.18	2.18	0.0	1.98	0.21	7
6/9	1	2.22	2.20	0.01	2.05	0.17	9
	2	2.42	2.36	0.05	2.07	0.35	9
6/11	1	3.40	3.40	0.0	3.43	-0.03	9
6/12	1	3.73	3.79	-0.06	3.42	0.32	9
6/13	1	2.27	2.39	-0.12	2.08	0.19	9
	2	2.13	2.29	-0.16	1.95	0.18	9
6/14	1	1.55	1.55	0.0	1.34	0.21	9
6/15	1	2.34	2.34	0.0	2.09	0.25	8
6/16	1	2.15	2.15	0.0	1.85	0.29	8

OSWEGO ALERT 1

BAROCLINIC GEOSTROPHIC TRANSPORT - 10^4m^3/sec

DATE	RUN	TOTAL UG	ABOVE	BELOW	IN	OUT	# STATIONS
5/18	1	0.06	0.05	0.0	0.01	0.05	4
5/19	1	0.01	0.07	-0.06	0.04	-0.03	6
5/20	1	-0.06	0.0	-0.06	0.0	-0.06	6
5/22	1	-0.07	0.0	-0.07	0.0	-0.07	6
	2	-0.02	0.01	-0.03	0.0	-0.02	6
5/23	1	-0.04	0.01	-0.04	0.0	-0.04	6
	2	-0.02	0.03	-0.05	0.0	-0.02	6
5/24	1	0.02	0.02	0.0	0.0	0.02	6
	2	0.07	0.06	0.01	0.0	0.07	6
5/26	1	-0.04	0.0	-0.05	0.0	-0.04	6
5/27	1	-0.01	0.02	-0.03	0.0	-0.01	6
	2	-0.03	0.0	-0.03	0.0	-0.03	7
5/28	1	-0.01	0.02	-0.03	-0.01	-0.02	7
	2	-0.05	0.0	-0.05	0.0	-0.05	7
5/29	1	0.04	0.03	0.02	0.0	0.04	4
6/2	1	0.15	0.12	0.03	0.01	0.13	6
	2	0.28	0.26	0.02	0.13	0.16	7
6/3	1	0.28	0.25	0.03	0.08	0.20	7
	2	0.21	0.19	0.03	0.04	0.18	7
6/4	1	0.31	0.31	0.0	0.19	0.12	5
	2	0.27	0.27	0.0	0.15	0.12	4
6/5	1	0.34	0.35	-0.01	0.20	0.14	8
	2	0.26	0.25	0.01	0.11	0.14	8
6/6	1	0.33	0.32	0.01	0.12	0.22	8
	2	0.44	0.44	0.0	0.17	0.27	8
6/7	1	0.58	0.58	0.0	0.36	0.22	5
	2	0.63	0.63	0.0	0.37	0.26	5
6/8	1	0.57	0.56	0.0	0.33	0.24	6
	2	0.89	0.88	0.01	0.63	0.25	7
6/9	1	0.86	0.84	0.02	0.61	0.26	9
	2	0.71	0.74	-0.03	0.45	0.26	9
6/11	1	2.27	2.28	-0.01	1.94	0.33	9
6/12	1	2.10	2.12	-0.01	1.69	0.42	9
6/13	1	1.79	1.78	0.01	1.45	0.34	9
	2	1.67	1.67	0.0	1.35	0.32	9
6/14	1	1.40	1.40	0.0	1.07	0.33	9
6/15	1	1.67	1.67	0.0	1.34	0.33	8
6/16	1	1.35	1.35	0.0	0.96	0.38	8

ROCHESTER ALERT 1

MEASURED TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL U	ABOVE	BELOW	IN	OUT	# STATIONS
5/17	-	-	-	-	-	-	-
5/18	-	-	-	-	-	-	-
5/19	-	-	-	-	-	-	-
5/20	-	-	-	-	-	-	-
5/26	1	-0.03	-0.03	0.0	0.0	-0.03	2
	2	-0.53	-0.27	-0.26	-0.30	-0.22	7
5/27	1	-0.95	-0.4	-0.55	-0.43	-0.52	8
	2	-0.34	-0.24	-0.10	-0.03	-0.31	8
5/28	1	-0.21	-0.08	-0.13	0.0	-0.21	8
	2	0.002	0.002	0.0	0.0	0.002	2
6/2	1	1.03	1.00	0.02	0.91	0.12	7
6/3	1	1.35	1.18	0.17	1.04	0.31	8
	2	1.35	1.26	0.09	1.01	0.34	8
6/4	1	2.42	2.11	0.31	1.93	0.49	6
6/5	1	1.42	1.41	0.01	1.30	0.13	8
	2	1.16	1.12	0.04	1.06	0.10	9
6/6	1	0.89	0.86	0.03	0.77	0.12	9
	2	0.91	0.85	0.06	0.76	0.15	9
6/7	1	0.67	0.67	0.0	0.67	0.0	2
6/9	1	1.62	1.86	-0.24	1.93	-0.31	9
	2	2.01	2.03	-0.02	1.74	0.28	8
6/11	1	3.01	3.01	0.0	2.81	0.20	4
6/12	1	1.54	1.54	0.0	1.53	0.01	3
	2	1.61	1.61	0.0	1.61	0.0	2
6/13	1	2.17	2.15	0.02	2.04	0.13	4
6/14	2	0.92	0.92	0.0	0.79	0.13	9
	2	0.57	0.57	0.0	0.50	0.07	3

ROCHESTER ALERT 1

BAROCLINIC GEOSTROPHIC TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL UG	ABOVE	BELOW	IN	OUT	# STATIONS
5/18	1	-0.06	0.003	-0.06	0.0	-0.06	7
5/19	1	-0.07	0.008	-0.08	0.0	-0.07	8
5/20	1	-0.08	-0.007	-0.07	0.0	-0.08	8
5/26	1	-0.02	0.02	-0.04	0.008	-0.03	2
	2	-0.03	0.03	-0.055	0.0	-0.03	7
5/27	1	-0.05	0.002	-0.05	-0.04	-0.01	8
	2	-0.06	-0.01	-0.05	-0.03	-0.04	8
5/28	1	-0.08	-0.02	-0.06	-0.01	-0.07	8
	2	-0.04	-0.04	0.0	0.0	-0.04	2
6/2	1	0.26	0.22	0.05	0.0	0.26	7
6/3	1	0.51	0.48	0.03	0.28	0.23	8
	2	0.68	0.67	0.01	0.45	0.23	8
6/4	1	0.85	0.86	-0.01	0.63	0.22	6
6/5	1	0.92	0.94	-0.02	0.74	0.18	8
	2	1.25	1.23	0.02	0.98	0.27	9
6/6	1	0.93	0.98	-0.05	0.79	0.14	9
	2	0.99	1.01	-0.02	0.81	0.18	9
6/7	2	0.24	0.24	0.0	0.21	0.02	2
6/9	1	1.11	1.14	-0.03	0.91	0.20	9
	2	1.64	1.64	0.0	1.39	0.26	8
6/11	1	2.12	2.12	0.0	1.95	0.16	4
6/12	1	1.41	1.43	-0.02	1.19	0.22	3
	2	0.51	0.51	0.0	0.43	0.08	2
6/13	1	1.23	1.23	0.0	1.08	0.16	4
6/14	1	0.85	0.85	0.0	0.60	0.25	9
	2	0.28	0.28	0.0	0.16	0.12	3

OLCOTT ALERT 1

MEASURED TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL U	ABOVE	BELOW	IN	OUT	# STATIONS
5/17	-	-	-	-	-	-	-
5/18	1	0.30	0.28	0.02	0.0	0.30	6
5/19	1	-	-	-	-	-	-
5/21	1	-	-	-	-	-	-
5/22	1	0.61	0.55	0.06	0.17	0.44	8
	2	0.74	0.61	0.14	0.69	0.06	8
5/23	1	0.75	0.37	0.38	0.06	0.69	8
5/24	1	0.18	0.18	0.0	0.08	0.10	8
	2	0.36	0.31	0.04	0.11	0.25	8
5/26	1	-1.23	-0.52	-0.71	-0.75	-0.48	8
	2	-1.67	-1.07	-0.61	-1.23	-0.44	9
5/27	1	-0.96	-0.34	-0.62	-0.19	-0.76	9
	2	-0.70	-0.34	-0.35	-0.24	-0.46	9
5/28	1	-0.25	-0.33	0.08	0.04	-0.29	9
	2	-0.04	-0.04	0.0	-0.03	-0.01	9
5/29	1	0.17	0.21	-0.04	0.20	-0.03	9
	2	0.41	0.23	0.18	0.18	0.23	9
5/30	1	0.88	0.88	0.0	0.74	0.14	8
5/31	1	0.44	0.54	-0.10	0.53	-0.09	8
	2	1.19	1.17	0.02	1.05	0.14	8
6/2	1	2.31	2.31	-0.01	2.17	0.15	8
	2	1.56	1.56	0.0	1.41	0.15	9
6/3	1	1.70	1.71	-0.01	1.50	0.20	9
	2	1.80	1.80	0.0	1.59	0.21	8
6/4	1	1.61	1.61	0.0	1.46	0.15	8
	2	-	-	-	-	-	-
6/5	1	0.02	0.21	-0.19	0.32	-0.30	9
	2	0.12	0.21	-0.08	0.10	0.02	9
6/7	1	0.01	-0.03	0.04	0.11	-0.10	9
	2	0.05	0.0	0.05	0.18	-0.13	9
6/8	1	-0.07	-0.07	0.0	-0.07	0.0	2
6/9	1	0.14	1.53	-1.38	0.48	-0.34	9
	2	0.79	1.42	-0.63	1.49	-0.70	9
6/10	1	1.62	1.61	0.02	1.51	0.11	7
	2	0.74	0.74	0.0	0.59	0.16	7
6/12	1	1.31	1.53	-0.22	1.43	-0.11	9
	2	1.83	2.14	-0.31	2.25	-0.42	9
6/13	2	0.53	0.49	0.04	0.59	-0.06	8
6/14	1	0.18	0.42	-0.23	0.15	0.03	9
	2	1.33	1.31	0.03	1.14	0.20	5
6/15	1	0.60	0.60	0.0	0.60	0.0	3

OLCOTT ALERT 1

BAROCLINIC GEOSTROPHIC TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL UG	ABOVE	BELOW	IN	OUT	# STATIONS
5/18	1	-1.65	-1.27	-0.38	-1.71	0.06	6
5/19	1	-	-	-	-	-	-
5/21	1	-	-	-	-	-	-
5/22	1	0.15	0.14	0.01	0.0	0.15	8
	2	0.14	0.14	0.0	0.0	0.14	8
5/23	1	0.30	0.30	0.0	0.12	0.18	8
5/24	1	0.34	0.34	0.0	0.14	0.20	8
	2	0.34	0.34	0.0	0.14	0.20	8
5/26	1	-0.03	-0.03	0.0	0.0	-0.03	8
	2	-0.03	-0.02	0.0	0.0	-0.03	9
5/27	1	0.01	0.0	0.01	0.0	0.01	9
	2	0.02	0.02	0.01	0.0	0.02	9
5/28	1	0.0	0.0	0.0	0.0	0.0	9
	2	-0.01	-0.01	0.0	0.0	-0.01	9
5/29	1	0.13	0.13	-0.01	0.02	0.10	9
	2	0.12	0.12	0.0	0.05	0.07	9
5/30	1	0.15	0.15	0.0	0.0	0.15	8
5/31	1	0.63	0.62	0.01	0.43	0.20	8
	2	0.47	0.47	0.0	0.29	0.18	8
6/2	1	2.13	2.02	0.11	1.87	0.26	8
	2	1.55	1.37	0.18	1.18	0.36	9
6/3	1	1.92	1.84	0.07	1.60	0.32	9
	2	1.33	1.33	0.0	1.03	0.30	8
6/4	1	1.98	1.98	0.0	1.70	0.28	8
	2	-	-	-	-	-	-
6/5	1	1.27	1.29	-0.02	1.00	0.27	9
	2	1.20	1.18	0.02	0.94	0.26	9
6/7	1	1.57	1.56	0.01	1.33	0.25	9
	2	1.57	1.56	0.01	1.32	0.26	9
6/8	1	0.05	0.05	0.0	0.01	0.04	2
6/9	1	2.04	1.98	0.07	1.84	0.20	9
	2	1.73	1.74	-0.01	1.54	0.19	9
6/10	1	0.04	0.04	0.0	-0.10	0.14	7
	2	1.97	1.97	0.0	1.67	0.30	7
6/12	1	2.28	2.31	-0.03	2.05	0.23	9
	2	2.65	2.68	-0.02	2.43	0.22	9
6/13	2	1.08	1.08	0.0	0.86	0.22	8
6/14	1	0.96	0.95	0.01	0.76	0.20	9
	2	0.16	0.16	0.0	0.02	0.14	5
6/15	1	0.11	0.11	0.0	0.0	0.11	3

OSHAWA ALERT 1

MEASURED TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL U	ABOVE	BELOW	IN	OUT	# STATIONS
5/17	1	0.02	0.04	0.03	0.0	0.02	4
5/19	1	-0.13	-0.14	0.01	-0.06	-0.07	12
5/20	1	-0.22	-0.32	0.10	-0.15	-0.07	12
5/21	1	-0.27	-0.26	-0.01	-0.11	-0.16	12
5/22	1	-0.17	-0.25	0.08	-0.04	-0.13	12
5/23	1	-0.04	-0.01	-0.02	-0.01	-0.02	12
5/24	1	0.22	0.16	0.07	0.0	0.22	12
5/25	1	-0.54	-0.44	-0.10	-0.30	-0.24	12
5/26	1	-0.73	-0.62	-0.10	-0.53	-0.20	12
5/27	1	-0.85	-0.67	-0.18	-0.47	-0.38	12
5/28	1	-0.50	-0.39	-0.11	-0.13	-0.37	12
5/29	1	0.17	0.18	-0.01	-0.09	0.25	12
5/30	1	-0.25	-0.25	0.0	-0.27	0.02	4
5/31	1	-0.15	-0.46	0.31	-0.46	0.31	12
6/1	1	0.31	0.34	-0.03	0.40	-0.09	7
6/2	1	2.51	1.91	0.60	1.20	1.31	12
6/3	1	0.0	0.0	0.0	0.0	0.0	2
6/5	1	-0.49	-0.49	0.0	-0.25	-0.24	12
6/6	1	-0.53	-0.51	-0.02	0.09	-0.62	12
6/9	1	2.00	1.71	0.30	1.44	0.56	12
	2	2.48	2.45	0.02	2.08	0.39	10
6/12	1	2.11	1.81	0.29	0.60	1.50	12
6/13	1	1.38	1.21	0.17	0.03	1.35	12

OSHAWA ALERT 1

BAROCLINIC GEOSTROPHIC TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL UG	ABOVE	BELOW	IN	OUT	# STATIONS
5/17	1	-0.02	-0.02	-0.01	0.0	-0.02	4
5/19	1	-0.10	-0.11	0.01	-0.01	-0.09	12
5/20	1	-0.05	-0.16	0.11	-0.05	0.0	12
5/21	1	-0.02	-0.12	0.10	-0.04	0.02	12
5/22	1	-0.10	-0.10	0.01	-0.07	-0.03	12
5/23	1	-0.14	-0.16	0.02	-0.05	-0.08	12
5/24	1	-0.11	-0.11	0.0	0.0	-0.11	12
5/25	1	-0.15	-0.17	0.02	-0.10	-0.05	12
5/26	1	-0.22	-0.22	0.0	-0.07	-0.14	12
5/27	1	-0.26	-0.27	0.01	-0.11	-0.14	12
5/28	1	-0.31	-0.31	-0.01	-0.13	-0.18	12
5/29	1	-0.26	-0.27	0.01	-0.10	-0.16	12
5/30	1	-0.37	-0.37	0.0	-0.29	-0.08	4
5/31	1	-0.41	-0.44	0.03	-0.27	-0.14	12
6/1	1	0.07	0.07	0.0	0.01	0.06	7
6/2	1	0.0	0.0	0.0	0.0	0.0	12
6/3	1	0.01	0.01	0.0	0.0	0.01	2
6/5	1	0.04	0.05	0.0	0.01	0.03	12
6/6	1	0.04	0.04	0.0	0.07	-0.03	12
6/9	1	0.08	0.07	0.0	0.0	0.08	12
	2	0.04	0.04	0.0	0.0	0.04	10
6/12	1	0.19	0.19	0.0	0.0	0.19	12
6/13	1	0.05	0.05	0.0	0.0	0.05	12

PRESQU'ILE ALERT 1

MEASURED TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL U	ABOVE	BELOW	IN	OUT	# STATIONS
5/17	1	-	-	-	-	-	-
5/18	1	-	-	-	-	-	-
5/19	1	-0.92	-0.35	-0.57	-0.51	-0.41	10
5/20	1	-0.34	-0.12	-0.22	0.0	-0.34	10
5/21	1	-0.06	-0.06	-0.01	0.0	-0.06	10
5/22	1	-0.25	-0.40	0.15	-0.38	0.12	10
5/23	1	0.06	0.10	-0.04	0.14	-0.09	10
5/24	1	-0.28	-0.30	0.02	-0.29	0.0	11
5/25	1	-0.65	-0.62	-0.02	-0.53	-0.11	8
5/26	1	-0.73	-0.58	-0.15	-0.24	-0.49	12
5/27	1	-0.60	-0.70	-0.10	-0.40	-0.20	12
5/28	1	0.41	0.28	0.14	0.05	0.37	12
5/29	1	-0.10	-0.28	0.18	-0.04	-0.06	12
5/30	1	-0.29	-0.26	-0.03	-0.26	-0.02	6
5/31	1	-1.09	-1.03	-0.06	-0.79	-0.30	9
6/2	1	4.11	2.40	1.72	3.20	0.92	12
6/3	1	0.82	0.42	0.40	0.25	0.57	12
6/4	1	0.20	0.61	-0.41	0.41	-0.20	12
6/5	1	-0.49	-0.19	-0.31	-0.18	-0.31	12
6/6	1	0.21	0.39	-0.18	0.30	-0.10	12
6/7	1	1.34	1.36	-0.02	0.29	1.05	12
6/9	1	-0.06	-0.12	0.06	-0.63	0.56	12
6/11	1	0.92	1.08	-0.16	0.80	0.12	8
6/12	1	2.53	1.93	0.60	0.99	1.55	12
6/13	1	-0.52	-0.46	-0.06	0.03	-0.54	12

PRESQU'ILE ALERT 1

BAROCLINIC GEOSTROPHIC TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL UG	ABOVE	BELOW	IN	OUT	# STATIONS
5/19	1	-0.08	-0.11	0.03	0.0	-0.08	10
5/20	1	-0.13	-0.16	0.03	0.0	-0.13	10
5/21	1	-0.07	-0.11	0.04	0.0	-0.07	10
5/22	1	-0.08	-0.11	0.03	0.0	-0.08	10
5/23	1	-0.09	-0.13	0.03	0.0	-0.09	10
5/24	1	0.02	-0.03	0.05	0.0	0.02	11
5/25	1	-0.13	-0.13	0.0	0.0	-0.13	8
5/26	1	-0.37	-0.37	0.0	-0.03	-0.35	12
5/27	1	-0.17	-0.17	-0.01	0.01	-0.17	12
5/28	1	-0.15	-0.16	0.02	0.0	-0.15	12
5/29	1	-0.27	-0.27	0.01	0.0	-0.27	12
5/30	1	-0.26	-0.26	0.0	0.0	-0.26	6
5/31	1	-0.30	-0.30	0.0	-0.07	-0.22	9
6/2	1	0.02	0.06	-0.04	0.0	0.02	12
6/3	1	0.11	0.11	0.0	0.0	0.11	12
6/4	1	0.14	0.14	0.0	0.0	0.14	12
6/5	1	0.10	0.10	0.0	0.02	0.08	12
6/6	1	0.06	0.06	0.0	0.0	0.06	12
6/7	1	0.22	0.22	0.0	0.01	0.21	12
6/9	1	0.14	0.14	0.0	0.0	0.14	12
6/11	1	0.12	0.12	0.0	0.0	0.12	8
6/12	1	0.08	0.08	0.0	0.0	0.08	12
6/13	1	0.17	0.17	0.0	0.0	0.17	12

OSWEGO ALERT 2

MEASURED TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL U	ABOVE	BELOW	IN	OUT	# STATIONS
7/15	1	2.31	2.04	0.27	1.99	0.32	7
	2	1.77	1.51	0.27	1.61	0.16	9
7/16	1	2.50	2.36	0.14	2.31	0.19	9
	2	3.43	3.40	0.03	3.36	0.07	9
7/17	1	2.86	2.64	0.22	2.55	0.30	9
	2	3.41	2.93	0.48	3.11	0.30	9
7/18	1	3.02	2.86	0.16	2.80	0.22	9
	2	2.50	2.48	0.02	2.35	0.15	9
7/19	1	1.91	1.90	0.01	1.87	0.05	9
	2	2.03	2.04	-0.01	1.94	0.09	9
7/20	1	1.02	1.12	-0.09	1.00	0.02	9
	2	1.13	1.23	-0.10	1.12	0.01	9
7/21	1	0.64	1.00	-0.36	0.71	-0.07	7
7/22	1	3.57	3.52	0.04	3.42	0.14	9
	2	3.39	3.36	0.03	3.31	0.09	8
7/23	1	2.84	2.83	0.01	2.73	0.11	7
7/25	1	2.47	2.48	-0.01	2.47	0.0	5
7/27	1	6.30	6.44	-0.13	6.26	0.05	9
	2	0.63	1.26	-0.63	0.63	-0.01	5
7/28	1	5.54	5.82	-0.28	5.43	0.11	9
	2	1.13	1.15	-0.02	1.10	0.03	5
7/29	1	4.34	4.48	-0.14	4.31	0.02	9
	2	3.96	4.26	-0.30	3.99	-0.03	9
7/30	1	1.99	2.16	-0.18	2.06	-0.07	9
	2	1.97	2.21	-0.24	2.27	-0.29	9
7/31	1	0.02	0.10	-0.07	0.02	0.01	9
8/1	1	-0.72	-0.40	-0.32	-0.36	-0.36	9
	2	-0.47	-0.04	-0.43	-0.08	-0.40	9
8/2	1	0.16	0.16	0.0	0.03	0.13	5
	2	0.55	0.86	-0.31	0.94	-0.39	9
8/3	1	-0.49	-0.23	-0.26	-0.17	-0.32	9
	2	0.02	0.03	-0.01	0.04	-0.02	8
8/5	1	0.04	-0.01	0.05	0.08	-0.05	9
	2	-0.10	-0.66	0.56	-0.26	0.16	9
8/6	1	1.39	1.17	0.22	1.01	0.38	9
	2	1.66	1.67	-0.01	1.59	0.07	9
8/7	1	0.32	0.55	-0.23	0.51	-0.19	9
8/11	1	10.73	10.36	0.37	10.58	0.16	9
	2	10.18	9.79	0.39	10.06	0.12	9
8/12	1	4.97	4.92	0.05	4.85	0.12	9
	2	4.80	4.63	0.17	4.50	0.30	9
8/13	1	3.55	3.39	0.16	3.26	0.29	9
	2	2.85	2.89	-0.04	2.73	0.12	9
8/14	1	2.50	2.52	-0.02	2.39	0.11	9

OSWEGO ALERT 2

BAROCLINIC GEOSTROPHIC TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL UG	ABOVE	BELOW	IN	OUT	# STATIONS
7/15	1	0.77	0.71	0.06	0.52	0.25	7
	2	1.92	1.88	0.04	1.68	0.24	9
7/16	1	3.47	3.38	0.09	3.24	0.23	9
	2	2.21	2.14	0.08	2.01	0.20	9
7/17	1	2.50	2.37	0.13	2.28	0.22	9
	2	3.80	3.59	0.21	3.48	0.32	9
7/18	1	2.54	2.46	0.08	2.40	0.14	9
	2	2.68	2.58	0.10	2.54	0.14	9
7/19	1	2.23	2.15	0.08	2.05	0.17	9
	2	2.65	2.58	0.07	2.45	0.20	9
7/20	1	2.37	2.31	0.06	2.24	0.12	9
	2	2.26	2.21	0.04	2.11	0.14	9
7/21	1	1.35	1.31	0.04	1.19	0.16	7
7/22	1	4.45	4.28	0.17	4.34	0.10	9
	2	3.93	3.83	0.10	3.72	0.21	8
7/23	1	2.53	2.49	0.03	2.49	0.04	7
7/25	1	6.72	5.64	1.08	6.59	0.13	5
7/27	1	10.16	10.04	0.13	9.97	0.19	9
	2	1.94	1.93	0.01	1.83	0.11	5
7/28	1	7.84	7.70	0.13	7.63	0.20	9
	2	-0.45	-0.43	-0.02	-0.47	0.03	5
7/29	1	4.67	4.58	0.09	4.60	0.07	9
	2	7.01	6.97	0.04	6.82	0.20	9
7/30	1	3.78	3.75	0.03	3.70	0.08	9
	2	5.18	5.14	0.04	4.99	0.18	9
7/31	1	1.38	1.38	0.0	1.40	-0.02	9
8/1	1	1.66	1.68	-0.03	1.55	0.10	9
	2	1.48	1.51	-0.02	1.32	0.17	9
8/2	1	0.14	0.20	-0.05	0.09	0.05	5
	2	0.41	0.23	0.18	0.31	0.10	9
8/3	1	0.74	0.75	-0.02	0.74	-0.01	9
	2	1.91	1.94	-0.03	1.91	0.01	8
8/5	1	-0.21	-0.20	-0.01	-0.19	-0.02	9
	2	0.20	0.21	-0.01	0.32	-0.11	9
8/6	1	1.01	1.03	-0.02	0.94	0.07	9
	2	0.76	0.76	0.0	0.81	-0.05	9
8/7	1	-0.01	0.03	-0.04	0.09	-0.10	9
8/11	1	9.12	9.03	0.09	8.98	0.15	9
	2	6.10	6.02	0.08	5.97	0.12	9
8/12	1	3.18	3.17	0.01	3.05	0.13	9
	2	6.71	6.66	0.06	6.69	0.02	9
8/13	1	4.73	4.65	0.08	4.62	0.11	9
	2	5.05	5.01	0.04	4.88	0.17	9
8/14	1	3.60	3.56	0.03	3.46	0.14	9

ROCHESTER ALERT 2

MEASURED TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL CC	ABOVE	BELOW	IN	OUT	# STATIONS
7/15	1	0.61	0.61	0.0	0.60	0.0	2
	2	3.55	3.15	0.40	3.25	0.30	7
7/16	1	4.75	4.25	0.49	4.43	0.31	9
	2	5.18	4.88	0.30	4.87	0.31	9
7/17	1	3.12	2.74	0.39	2.98	0.15	9
	2	4.16	3.72	0.44	3.84	0.32	9
7/18	1	2.00	1.54	0.46	1.66	0.36	9
	2	1.02	0.83	0.18	0.63	0.38	9
7/19	1	0.79	0.76	0.03	0.62	0.16	9
	2	1.73	1.44	0.29	1.22	0.51	9
7/20	1	1.28	1.12	0.16	0.94	0.33	9
	2	1.66	1.52	1.43	1.21	0.45	9
7/21	1	0.95	0.74	0.21	0.84	0.11	6
7/22	1	2.62	2.60	0.02	2.49	0.13	9
	2	1.20	0.93	0.27	0.99	0.21	5
7/23	1	2.70	2.70	0.0	2.62	0.08	9
7/25	1	0.78	0.59	0.19	0.78	0.0	2
7/27	1	4.63	4.80	-0.17	4.60	0.03	9
	2	3.02	2.92	0.08	2.72	0.30	9
7/28	1	2.57	0.43	2.34	2.28	0.29	5
7/29	1	2.41	2.49	-0.08	2.35	0.06	9
	2	0.48	0.39	0.09	0.22	0.26	5
7/30	1	0.26	0.57	-0.17	0.43	-0.03	9
7/31	1	-1.54	-1.48	-0.06	-1.32	-0.22	7
8/1	1	-0.43	-0.31	0.06	-0.50	0.05	4
8/2	1	-0.52	-0.69	0.16	-0.54	0.01	9
	2	0.39	0.23	0.16	0.39	0.0	9
8/3	1	0.58	0.43	0.15	0.38	0.20	6
8/5	1	0.72	0.99	-0.27	0.97	-0.26	8
8/6	1	0.50	0.80	-0.30	0.87	-0.37	9
	2	0.06	0.04	0.02	0.05	0.01	3
8/11	1	0.30	0.30	0.0	0.17	0.13	4
	2	6.13	5.51	0.62	5.74	0.39	9
8/12	1	-0.21	-0.21	0.0	-0.16	-0.05	3
8/13	1	2.51	2.20	0.31	2.43	0.09	8
	2	2.33	1.75	0.57	1.86	0.47	8
8/14	1	0.96	1.36	-0.40	0.87	0.09	8

ROCHESTER ALERT 2

BAROCLINIC GEOSTROPHIC TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL CC	ABOVE	BELOW	IN	OUT	# STATIONS
7/15	1	-0.12	-0.12	0.0	-0.07	-0.05	2
	2	3.15	2.99	0.16	2.97	0.18	7
7/16	1	5.75	5.38	0.37	5.38	0.37	9
	2	5.05	4.69	0.36	4.68	0.37	9
7/17	1	4.31	2.78	1.53	4.01	0.30	9
	2	3.63	3.42	0.22	3.30	0.33	9
7/18	1	1.65	1.54	0.11	1.41	0.24	9
	2	1.85	1.78	0.08	1.55	0.30	9
7/19	1	1.40	1.31	0.09	1.20	0.20	9
	2	1.82	1.70	0.12	1.58	0.24	9
7/20	1	1.96	1.79	0.18	1.68	0.28	9
	2	1.55	1.45	0.10	1.24	0.31	9
7/21	1	0.97	0.89	0.08	0.91	0.06	6
7/22	1	2.97	2.86	0.10	2.75	0.22	9
	2	0.49	0.54	-0.05	0.56	-0.08	5
7/23	1	2.18	2.11	0.07	1.96	0.22	9
7/25	1	-0.03	-0.03	0.0	0.0	-0.03	2
7/27	1	4.71	4.60	0.11	4.57	0.15	9
	2	4.60	4.58	0.02	4.45	0.15	9
7/28	1	6.63	1.37	5.27	6.45	0.19	4
7/29	1	2.89	2.90	-0.01	2.83	0.05	9
	2	0.31	0.38	-0.07	0.28	0.03	5
7/30	1	0.39	0.51	-0.12	0.89	-0.51	9
7/31	1	-1.59	-1.51	-0.08	-1.61	0.02	7
8/1	1	-0.91	-0.86	-0.05	-0.81	-0.10	4
8/2	1	-0.49	-0.46	-0.04	-0.45	-0.05	9
	2	-1.20	-1.17	-0.04	-0.86	-0.34	9
8/3	1	-0.97	-0.83	-0.15	-0.76	-0.21	6
8/5	1	-1.04	-0.98	-0.06	-0.54	-0.50	8
8/6	1	-2.04	-1.96	-0.08	-1.89	-0.15	9
	2	-0.51	-0.51	0.0	-0.36	-0.15	3
8/11	1	0.64	0.62	0.02	0.51	0.13	4
	2	3.75	3.72	0.03	3.61	0.13	9
8/12	1	-0.29	-0.29	0.0	-0.22	-0.07	3
8/13	1	1.73	1.80	-0.07	1.69	0.03	8
	2	2.02	2.01	0.01	1.97	0.06	8
8/14	1	1.58	1.53	0.05	1.53	0.05	8

OLCOTT ALERT 2

MEASURED TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL U	ABOVE	BELOW	IN	OUT	# STATIONS
7/15	1	0.36	0.36	0.0	0.36	0.0	2
7/16	1	1.48	1.34	0.15	1.13	0.35	9
	2	1.30	0.75	0.54	0.93	0.37	8
7/17	1	-0.22	-0.22	0.01	-0.17	-0.05	3
	2	1.37	1.05	0.32	1.11	0.26	9
7/18	1	-0.91	-0.54	-0.37	-0.29	-0.62	9
	2	-0.22	-0.21	-0.01	-0.02	-0.21	9
7/19	1	0.56	-0.14	0.71	0.48	0.08	9
	2	1.53	0.80	0.73	0.91	0.62	8
7/20	1	-0.67	-0.29	-0.37	-0.22	-0.44	9
	2	0.19	0.05	0.15	0.37	-0.18	9
7/21	1	-	-	-	-	-	9
	2	-0.28	-0.19	-0.08	0.04	-0.32	9
7/22	1	-0.01	-0.21	0.20	-0.09	0.08	9
7/23	1	1.16	1.46	-0.31	1.36	-0.20	9
7/24	1	1.10	1.22	-0.12	1.09	0.01	9
	2	0.12	0.23	-0.11	0.14	-0.02	4
7/25	1	0.39	0.34	0.05	0.26	0.13	6
7/27	1	-0.91	-0.93	0.02	-0.91	0.01	9
7/28	1	-0.99	-0.79	-0.20	-0.91	-0.08	9
	2	-1.52	-1.28	-0.24	-1.24	-0.28	9
7/29	1	-2.29	-1.64	-0.65	-1.71	-0.58	9
7/30	1	-1.78	-1.43	-0.35	-1.54	-0.24	9
	2	-1.06	-1.38	0.32	-1.21	0.15	9
7/31	1	-1.39	-1.73	0.34	-1.71	0.33	9
	2	-1.93	-1.68	-0.25	-1.71	-0.21	9
8/1	1	0.33	-0.08	0.41	0.05	0.28	9
	2	0.31	0.58	-0.27	0.50	-0.20	9
8/2	1	0.35	-0.04	0.39	0.21	0.13	9
	2	-0.15	-0.36	0.21	-0.10	-0.05	5
8/3	1	-0.28	-0.76	0.48	-0.37	0.09	6
8/5	1	-1.04	-1.36	0.32	-1.46	0.42	9
8/6	1	0.05	-1.80	1.85	-0.05	0.10	9
	2	1.14	-0.53	1.67	0.80	0.34	9
8/7	1	0.16	0.14	0.02	0.14	0.02	2
8/10	1	3.31	2.73	0.58	3.01	0.30	9
8/11	1	0.68	1.03	-0.35	1.07	-0.38	9
	2	1.51	1.19	0.32	1.35	0.16	9
8/14	1	-0.20	0.08	-0.29	-0.16	-0.04	8
	2	1.69	1.35	0.34	1.66	0.03	7

OLCOTT ALERT 2

BAROCLINIC GEOSTROPHIC TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL UG	ABOVE	BELOW	IN	OUT	# STATIONS
7/15	1	-0.03	-0.03	0.0	0.0	-0.03	2
7/16	1	2.49	2.34	0.14	2.28	0.20	9
	2	1.39	1.08	0.32	1.10	0.29	8
7/17	1	-0.24	-0.24	0.0	-0.21	-0.03	3
	2	-0.14	-0.15	0.01	-0.14	0.0	9
7/18	1	-0.29	-0.28	-0.01	-0.33	0.04	9
	2	-0.61	-0.59	-0.01	-0.51	-0.09	9
7/19	1	1.14	1.12	0.03	1.19	-0.05	9
	2	-0.35	-0.34	-0.01	-0.34	-0.01	8
7/20	1	-0.19	-0.13	-0.06	-0.17	-0.02	9
	2	-0.33	-0.30	-0.03	-0.35	0.02	9
7/21	1	-	-	-	-	-	9
	2	1.58	1.50	0.08	1.49	0.09	9
7/22	1	1.23	1.18	0.04	1.16	0.06	9
7/23	1	1.54	1.50	0.03	1.32	0.21	9
7/24	1	3.23	3.19	0.04	3.18	0.06	9
	2	0.63	0.51	0.13	0.52	0.11	4
7/25	1	0.61	0.61	0.0	0.55	0.06	6
7/27	1	-0.27	-0.15	-0.12	-0.26	-0.01	9
7/28	1	-1.12	-0.95	-0.17	-0.80	-0.32	9
	2	-0.63	-0.54	-0.10	-0.52	-0.11	9
7/29	1	-1.23	-1.10	-0.12	-1.03	-0.20	9
7/30	1	-1.42	-1.28	-0.14	-1.24	-0.18	9
	2	-1.38	-1.23	-0.15	-1.03	-0.34	9
7/31	1	-2.66	-2.42	-0.24	-2.45	-0.21	9
	2	-1.88	-1.73	-0.15	-1.65	-0.23	9
8/1	1	0.44	0.55	-0.11	0.56	-0.12	9
	2	-0.74	-0.63	-0.11	-0.46	-0.28	9
8/2	1	-1.36	-1.28	-0.09	-1.24	-0.12	9
	2	-0.39	-0.34	-0.05	-0.26	-0.13	5
8/3	1	-3.65	-3.51	-0.14	-3.54	-0.11	6
8/5	1	-2.61	-2.39	-0.23	-2.38	-0.24	9
8/6	1	-2.28	-2.22	-0.06	-2.11	-0.17	9
	2	-2.27	-2.15	-0.13	-2.09	-0.19	9
8/7	1	-0.17	-0.17	0.0	-0.15	-0.02	2
8/10	1	1.53	1.54	-0.01	1.58	0.05	9
8/11	1	2.18	2.05	0.13	1.91	0.27	9
	2	2.04	1.87	0.17	1.76	0.28	9
8/14	1	3.11	2.27	0.84	2.83	0.28	8
	2	0.92	0.88	0.04	0.77	0.15	7

OSHAWA ALERT 2

MEASURED TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL U	ABOVE	BELOW	IN	OUT	#STATIONS
7/16	1	0.06	-0.13	0.22	-0.03	0.12	7
7/17	1	0.09	0.27	-0.18	0.28	-0.19	12
7/18	1	-0.14	0.27	-0.41	0.18	-0.32	12
7/19	1	-0.67	-0.58	-0.09	-0.44	-0.23	12
7/20	1	-0.96	0.25	-1.20	0.01	-0.98	12
7/21	1	-0.21	-0.21	0.0	-0.16	-0.05	7
7/22	1	0.74	0.73	0.01	0.62	0.12	12
7/23	1	1.42	1.30	0.12	1.24	0.18	9
7/24	1	1.23	0.95	0.28	1.03	0.20	9
7/25	1	0.07	-0.18	0.25	0.0	0.08	12
7/26	1	-0.14	-0.06	-0.07	-0.05	-0.09	12
7/27	1	-0.29	-0.03	-0.26	0.0	-0.29	12
7/28	1	-0.56	-0.41	-0.15	-0.32	-0.24	12
7/29	1	-0.44	-0.23	-0.22	-0.21	-0.23	7
7/30	1	-2.54	-1.24	-1.30	-1.71	-0.84	12
7/31	1	-3.88	-0.80	-3.07	-3.39	-0.48	12
8/1	1	-3.59	-1.21	-2.38	-2.69	-0.90	12
8/3	1	-4.38	-3.96	-0.42	-4.02	-0.36	8
8/4	1	-1.02	-0.72	-0.30	-0.75	-0.27	11
8/5	1	-0.44	-2.01	1.56	-0.68	0.23	12
8/6	1	0.15	-0.59	0.74	-0.12	0.27	12
8/8	1	-1.43	-1.49	-0.06	-1.32	-0.11	12
8/10	1	4.97	0.74	4.23	4.90	0.07	12
	2	1.71	0.76	0.94	1.39	0.31	5
8/11	1	5.20	2.73	2.47	4.88	0.32	12
	2	2.48	1.59	0.89	2.31	0.17	8
8/12	1	1.90	1.18	0.72	0.90	1.00	12
8/14	1	-0.68	-0.37	-0.31	-0.47	-0.21	5
8/15	1	-3.93	-1.35	-2.58	-3.57	-0.36	12

OSHAWA ALERT 2

BAROCLINIC GEOSTROPHIC TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL UG	ABOVE	BELOW	IN	OUT	# STATIONS
7/16	1	0.14	0.15	-0.01	0.08	0.06	7
7/17	1	0.29	0.34	-0.05	0.15	0.14	12
7/18	1	-1.02	-0.55	-0.47	-0.85	-0.17	12
7/19	1	0.28	0.35	-0.07	0.26	0.02	12
7/20	1	-0.11	0.08	-0.20	0.05	-0.16	12
7/21	1	-0.24	-0.13	-0.12	-0.09	-0.16	7
7/22	1	0.25	0.37	-0.12	0.25	0.0	12
7/23	1	0.66	0.56	0.10	0.54	0.12	9
7/24	1	0.08	0.29	-0.21	0.09	-0.01	9
7/25	1	0.30	0.23	0.07	0.10	0.20	12
7/26	1	0.25	0.16	0.09	0.08	0.18	12
7/27	1	0.07	0.01	0.06	0.02	0.05	12
7/28	1	0.15	0.12	0.04	0.0	0.15	12
7/29	1	0.09	0.09	0.0	0.0	0.09	7
7/30	1	0.24	0.13	0.11	0.25	-0.02	12
7/31	1	-0.19	0.01	-0.20	-0.01	-0.18	12
8/1	1	-0.37	-0.14	-0.23	-0.03	-0.34	12
8/3	1	-1.41	-1.05	-0.36	-0.82	-0.59	8
8/4	1	-2.64	-1.92	-0.71	-2.39	-0.25	11
8/5	1	-3.98	-3.34	-0.64	-3.45	-0.53	12
8/6	1	-2.40	-1.84	-0.56	-1.83	-0.57	12
8/8	1	-1.97	-1.81	-0.16	-1.56	-0.41	12
8/10	1	0.69	0.66	0.03	0.44	0.25	12
	2	0.10	0.07	0.03	0.14	-0.03	5
8/11	1	0.33	0.36	-0.03	0.39	-0.06	12
	2	0.70	0.59	0.11	0.51	0.20	8
8/12	1	0.77	0.70	0.07	0.79	-0.02	12
8/14	1	0.25	0.28	-0.03	0.22	0.03	5
8/15	1	0.19	0.23	-0.04	0.16	0.03	12

PRESQU'ILE ALERT 2

MEASURED TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL U	ABOVE	BELOW	IN	OUT	# STATIONS
7/16	1	-0.40	-0.46	0.06	-0.52	0.12	12
7/17	1	-0.31	0.22	-0.53	0.22	-0.53	12
7/18	1	-0.41	-0.18	-0.23	0.0	-0.41	12
7/19	1	-0.94	-0.88	-0.05	-0.84	-0.10	12
7/20	1	-0.66	-0.10	-0.56	0.21	-0.88	12
7/21	1	0.02	0.08	-0.06	-0.02	0.03	6
7/22	1	0.82	0.79	0.04	0.59	0.23	12
7/23	1	0.24	0.19	0.05	0.14	0.11	12
7/24	1	-0.15	0.05	0.21	0.03	-0.18	9
7/25	1	-0.17	-0.03	-0.15	-0.05	-0.12	12
	2	-0.59	-0.24	-0.35	-0.42	-0.16	5
7/26	1	-1.12	-0.45	-0.67	-0.60	-0.52	9
	2	-0.53	-0.09	-0.44	-0.28	-0.25	5
7/27	1	-0.04	0.13	-0.17	0.04	-0.04	12
7/28	1	-5.45	-1.70	-3.75	-4.93	-0.51	12
7/29	1	-5.15	-2.30	-2.86	-4.48	-0.68	12
7/30	1	-3.26	-2.72	-0.55	-2.38	-0.89	12
7/31	1	-5.92	-5.55	-0.37	-5.23	-0.69	12
8/1	1	-2.75	-3.61	0.86	-2.70	-0.06	12
8/4	1	-0.46	-0.48	0.02	-0.45	-0.01	12
8/5	1	-0.94	-0.88	-0.06	-0.76	-0.18	12
8/6	1	0.81	-0.33	1.14	0.31	0.50	12
8/7	1	-1.09	-0.96	-0.13	-0.68	-0.41	11
8/10	1	3.95	2.42	1.53	3.54	0.41	9
8/11	1	-0.85	0.25	-1.10	0.19	-1.04	12
8/12	1	-6.55	-2.45	-4.10	-6.42	-0.13	12
8/13	1	-3.21	-2.39	-0.82	-2.92	-0.29	12
8/14	1	-1.37	-1.37	0.0	-1.25	-0.11	4
8/15	1	-4.65	-3.89	-0.76	-3.81	-0.84	12

PRESQU'ILE ALERT 2

BAROCLINIC GEOSTROPHIC TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL UG	ABOVE	BELOW	IN	OUT	# STATIONS
7/16	1	0.06	0.07	-0.01	0.13	-0.07	12
7/17	1	0.34	0.32	0.02	0.07	0.26	12
7/18	1	0.21	0.18	0.03	0.01	0.20	12
7/19	1	-0.18	-0.09	-0.09	0.01	-0.19	12
7/20	1	0.02	0.09	-0.07	0.05	-0.04	12
7/21	1	-0.02	-0.03	0.01	-0.04	0.02	6
7/22	1	0.36	0.41	-0.05	0.20	0.16	12
7/23	1	0.31	0.41	-0.10	0.44	-0.13	12
7/24	1	-0.07	0.08	-0.15	0.14	-0.22	9
7/25	1	0.39	0.45	-0.06	0.28	0.11	12
	2	-0.05	0.02	-0.07	0.0	-0.05	5
7/26	1	0.05	0.14	-0.09	0.08	-0.03	9
	2	0.01	0.05	-0.04	0.03	-0.02	5
7/27	1	0.10	0.12	-0.02	-0.07	0.17	12
7/28	1	-0.15	0.03	-0.18	-0.06	-0.10	12
7/29	1	-0.62	-0.09	-0.53	-0.72	0.11	12
7/30	1	-2.81	-2.33	-0.48	-2.37	-0.43	12
7/31	1	-4.74	-4.51	-0.23	-4.33	-0.41	12
8/1	1	-7.11	-6.82	-0.29	-6.63	-0.48	12
8/4	1	-1.41	-1.33	-0.08	-1.29	-0.12	12
8/5	1	-.45	-0.40	-0.05	-0.27	-0.18	12
8/6	1	-1.70	-1.60	-0.09	-1.51	-0.18	12
8/7	1	-1.33	-1.25	-0.08	-1.17	-0.16	11
8/10	1	0.73	0.75	-0.02	0.58	0.15	9
8/11	1	0.88	0.91	-0.03	0.77	0.11	12
8/12	1	1.98	1.82	0.15	1.91	0.06	12
8/13	1	0.17	0.34	-0.18	0.10	0.07	12
8/14	1	-0.23	-0.23	0.0	-0.19	-0.04	4
8/15	1	-3.57	-3.43	-0.14	-3.48	-0.09	12

OSWEGO ALERT 3

MEASURED TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL U	ABOVE	BELOW	IN	OUT	# STATIONS
9/15	1	1.51	1.35	0.16	1.35	0.16	6
9/16	1	2.49	2.29	0.20	2.10	0.39	9
9/17	1	0.16	0.16	0.0	0.13	0.02	2
9/18	1	1.94	1.90	0.05	1.86	0.08	5
	2	4.31	4.21	0.09	4.05	0.25	8
9/21	1	-0.14	-0.14	0.0	-0.14	0.0	1
9/24	1	0.01	-0.05	0.06	0.0	0.01	2
9/25	1	-2.08	-1.40	-0.68	-1.39	-0.70	9
9/26	1	-1.65	-1.59	-0.05	-1.46	-0.19	6
9/28	1	-0.65	-0.52	-0.13	-0.38	-0.28	7
10/3	1	0.82	0.76	0.06	0.40	0.42	7
10/4	1	1.11	1.04	0.07	0.83	0.29	6
10/5	1	1.48	1.44	0.04	1.33	0.15	6

OSWEGO ALERT 3

BAROCLINIC GEOSTROPHIC TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL UG	ABOVE	BELOW	IN	OUT	# STATIONS
9/15	1	0.37	0.35	0.02	0.0	0.37	6
9/16	1	1.50	1.49	0.01	1.21	0.28	9
9/17	1	0.01	0.01	0.0	0.0	0.01	2
9/18	1	1.86	1.84	0.02	1.76	0.10	5
	2	3.98	3.92	0.05	3.98	0.0	8
9/21	1	0.0	0.0	0.0	0.0	0.0	1
9/24	1	-0.02	0.0	-0.02	0.0	-0.02	2
9/25	1	-2.61	-2.46	-0.15	-2.50	-0.11	9
9/26	1	-0.43	-0.43	0.0	-0.20	-0.24	6
9/28	1	-2.77	-2.64	-0.13	-2.64	-0.13	7
10/3	1	0.51	0.47	0.04	0.29	0.22	7
10/4	1	-0.29	-0.29	0.0	0.0	-0.29	6
10/5	1	0.09	0.07	0.01	0.01	0.08	6

ROCHESTER ALERT 3

MEASURED TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL U	ABOVE	BELOW	IN	OUT	# STATIONS
9/21	1	-4.50	-2.89	-1.61	-3.61	-0.90	9
9/23	1	-0.07	0.18	-0.25	0.03	-0.10	9
9/24	1	-1.99	-2.51	0.53	-2.00	0.02	9
9/25	1	-1.21	-1.97	0.76	-1.69	0.48	9
	2	0.91	0.88	0.03	0.73	0.18	9
10/1	1	2.79	2.19	0.60	2.45	0.33	8
	2	5.23	4.27	0.96	4.79	0.44	8
10/2	1	5.39	4.80	0.59	5.02	0.38	8
10/3	1	4.57	4.09	0.49	3.96	0.60	8
10/4	1	3.10	2.94	0.17	2.92	0.13	5
10/6	1	0.62	0.54	0.08	0.44	0.18	8
10/10	1	3.71	3.71	0.0	3.71	0.0	3
10/11	1	0.04	0.04	0.0	0.0	0.04	1

ROCHESTER ALERT 3

BAROCLINIC GEOSTROPHIC TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL UG	ABOVE	BELOW	IN	OUT	# STATIONS
9/21	1	-5.14	-4.75	-0.39	-4.78	-0.36	9
9/23	1	-0.43	-0.40	-0.03	-0.56	0.13	9
9/24	1	-3.43	-2.84	-0.59	-3.23	-0.21	9
9/25	1	-1.32	-1.32	0.0	-1.43	0.11	9
	2	-2.01	-1.90	-0.11	-1.79	-0.22	9
10/1	1	2.95	2.80	0.15	2.53	0.42	8
	2	3.04	2.85	0.20	2.54	0.50	8
10/2	1	3.31	3.12	0.20	3.05	0.27	8
10/3	1	3.91	3.68	0.24	3.23	0.68	8
10/4	1	1.93	1.78	0.15	1.74	0.19	5
10/6	1	-0.07	-0.25	0.18	-0.28	0.20	8
10/10	1	1.44	1.44	0.0	1.31	0.13	3
10/11	1	-0.12	-0.12	0.0	-0.08	-0.04	1

OLCOTT ALERT 3

MEASURED TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL U	ABOVE	BELOW	IN	OUT	# STATIONS
9/16	1	3.30	3.45	-0.14	3.14	0.16	9
	2	1.39	3.02	-1.63	1.71	-0.32	9
9/18	1	-0.90	0.09	-1.00	-0.29	-0.61	9
	2	-0.20	0.10	-0.30	0.36	-0.56	9
9/20	1	-0.34	-0.22	-0.12	-0.22	-0.11	4
9/21	1	-1.06	-1.60	0.54	-1.48	0.42	8
	2	-0.66	-1.62	0.96	-1.50	0.84	8
9/23	1	1.61	1.26	0.35	1.22	0.39	9
9/24	1	2.33	1.70	0.63	1.88	0.44	7
9/25	1	3.12	2.27	0.86	2.73	0.40	8
	2	2.30	1.34	0.96	2.11	0.19	8
9/28	1	-0.02	-0.02	0.0	-0.03	0.01	2
9/29	1	0.37	0.11	0.26	0.23	0.14	5
10/1	1	3.72	4.19	-0.47	3.62	0.11	7
10/3	1	3.16	2.55	0.61	3.11	0.05	7
	2	0.66	0.99	-0.33	0.89	-0.24	7
10/4	1	-0.02	0.11	-0.13	0.11	-0.13	7
	2	1.40	1.33	0.08	1.50	-0.09	7
10/5	1	2.52	1.73	0.79	2.31	0.21	7
10/11	1	-1.77	-1.75	-0.02	-1.77	-0.01	4
10/13	1	0.49	0.57	-0.08	0.38	0.11	6
	2	-0.31	-0.23	-0.08	0.01	-0.32	6

OLCOTT ALERT 3

BAROCLINIC GEOSTROPHIC TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL UG	ABOVE	BELOW	IN	OUT	# STATIONS
9/16	1	5.29	5.26	0.03	5.26	0.03	9
	2	4.18	4.13	0.05	4.14	0.04	9
9/18	1	0.98	1.02	-0.04	0.94	0.04	9
	2	0.31	0.37	-0.06	0.12	0.19	9
9/20	1	-0.31	-0.23	-0.08	-0.25	-0.06	4
9/21	1	-2.01	-1.75	-0.26	-1.74	-0.28	8
	2	-1.42	-1.24	-0.18	-1.21	-0.21	8
9/23	1	-0.74	-0.69	-0.05	-0.44	0.29	8
9/24	1	0.04	0.02	0.02	0.03	0.01	7
9/25	1	0.02	-0.12	0.14	0.04	-0.02	8
	2	0.66	0.52	0.15	0.53	0.13	8
9/28	1	0.04	0.04	0.0	0.0	0.04	2
9/29	1	-0.12	-0.15	0.03	-0.19	0.07	5
10/1	1	1.99	1.78	0.20	1.81	0.17	7
10/3	1	5.25	5.02	0.23	4.87	0.38	7
	2	4.73	4.51	0.22	4.43	0.30	7
10/4	1	3.61	3.38	0.24	3.37	0.24	7
	2	1.54	1.38	0.16	1.30	0.24	7
10/5	1	0.97	0.85	0.11	1.04	-0.07	7
10/11	1	-0.32	-0.32	0.0	0.0	-0.32	4
10/13	1	0.47	0.64	-0.17	0.46	0.01	6
	2	0.93	0.95	-0.02	0.70	0.23	6

OSHAWA ALERT 3

MEASURED TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL U	ABOVE	BELOW	IN	OUT	# STATIONS
9/15	1	-1.16	-0.94	-0.22	-1.07	-0.09	5
9/16	1	1.27	0.66	0.60	0.81	0.46	12
9/18	1	1.70	0.58	1.12	1.02	0.69	12
9/19	1	-1.65	0.23	-1.88	-1.45	-0.20	10
9/21	1	-1.32	-1.32	0.0	-1.32	0.0	4
9/22	1	-3.73	-2.80	-0.93	-2.84	-0.89	12
9/23	1	-1.32	-1.89	0.57	-1.76	0.44	12
9/25	1	-1.13	-1.15	0.02	-1.01	-0.12	12
9/27	1	-0.01	-0.14	0.13	-0.03	0.02	12
9/29	1	-2.03	-2.03	0.0	-1.99	-0.04	6
9/30	1	-1.14	-1.12	-0.02	-1.08	-0.07	6
10/1	1	-0.14	0.02	-0.15	0.04	-0.17	8
10/2	1	1.60	1.33	0.26	1.51	0.09	6
10/3	1	1.12	0.80	0.31	0.57	0.55	12
	2	0.08	-0.12	0.20	-0.06	0.14	5
10/4	1	-2.35	-2.43	0.07	-2.08	-0.27	12
10/5	1	-5.87	-4.94	-0.93	-5.41	-0.46	12
	2	-2.87	-2.86	-0.01	-2.82	-0.05	6
10/6	1	-5.88	-5.42	-0.46	-5.36	-0.52	10
	2	-2.13	-1.88	-0.25	-1.82	-0.31	5
10/10	1	5.39	2.58	2.81	5.32	0.08	7
10/12	1	-1.03	0.32	1.36	-1.43	0.40	11
10/13	1	-9.26	-0.72	-8.55	-9.13	-0.14	12
10/15	1	-0.33	0.0	-0.33	-0.03	-0.30	11

OSHAWA ALERT 3

BAROCLINIC GEOSTROPHIC TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL UG	ABOVE	BELOW	IN	OUT	# STATIONS
9/15	1	-0.11	-0.10	-0.01	-0.11	-0.01	5
9/16	1	-0.07	0.07	-0.14	0.0	-0.07	12
9/18	1	0.17	0.20	-0.03	0.27	-0.10	12
9/19	1	0.55	0.48	0.07	0.66	-0.11	10
9/21	1	0.26	0.26	0.0	0.10	0.16	4
9/22	1	-2.74	-2.45	-0.29	-2.46	-0.28	12
9/23	1	-4.15	-3.91	-0.24	-3.83	-0.32	12
9/25	1	-4.46	-4.35	-0.11	-4.39	-0.07	12
9/27	1	-0.48	-0.44	-0.05	-0.29	-0.19	12
9/29	1	-1.28	-1.28	0.0	-1.22	-0.06	6
9/30	1	-0.62	-0.62	0.0	-0.57	-0.05	6
10/1	1	-0.29	-0.26	-0.04	-0.14	-0.16	8
10/2	1	-0.11	-0.06	-0.05	-0.13	0.01	6
10/3	1	0.30	0.32	-0.02	0.61	-0.31	12
	2	-0.31	-0.13	-0.18	-0.10	-0.22	5
10/4	1	-1.24	-1.11	-0.12	-0.75	-0.49	12
10/5	1	-3.92	-3.77	-0.15	-3.90	-0.02	12
	2	-1.11	-0.52	-0.58	-0.44	-0.67	6
10/6	1	-2.60	-2.47	-0.13	-2.13	-0.47	10
	2	-1.39	-0.61	-0.79	-0.63	-0.76	5
10/10	1	0.85	0.63	0.22	0.53	0.32	7
10/12	1	0.61	0.26	0.35	0.34	0.27	11
10/13	1	0.64	0.44	0.19	0.44	0.20	12
10/15	1	0.35	0.0	0.35	0.09	0.26	11

PRESQU'ILE ALERT 3

MEASURED TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL U	ABOVE	BELOW	IN	OUT	# STATIONS
9/16	1	1.02	0.90	0.12	0.47	0.54	12
9/18	1	-4.31	-2.16	-2.15	-3.82	-0.48	12
9/23	1	0.73	0.71	0.02	0.19	0.54	12
9/26	1	-0.16	-0.17	0.01	-0.07	-0.09	8
9/27	1	1.23	1.12	0.11	0.88	0.36	9
9/28	1	-0.33	-0.33	0.0	-0.30	-0.03	5
10/2	1	0.29	0.29	0.0	0.15	0.14	7
10/3	1	-1.43	-1.37	-0.07	-0.85	-0.58	12
10/4	1	-1.61	-1.60	-0.01	-1.19	-0.42	9
	2	-0.69	-0.69	0.0	-0.53	-0.16	5
10/6	1	-3.10	-3.56	0.46	-3.19	0.09	12
	2	-2.02	-2.04	0.02	-2.00	-0.02	9
10/10	1	-0.46	0.06	-0.52	-0.32	-0.14	12
10/11	1	-11.13	-3.25	-7.88	-11.09	-0.04	11
10/12	1	-2.94	-1.42	-1.52	-2.86	-0.08	9
10/13	1	-3.93	-2.03	-1.89	-3.59	-0.34	12

PRESQU'ILE ALERT 3

BAROCLINIC GEOSTROPHIC TRANSPORT - $10^4 m^3/sec$

DATE	RUN	TOTAL UG	ABOVE	BELOW	IN	OUT	# STATIONS
9/16	1	0.51	0.57	-0.06	0.26	0.25	12
9/18	1	0.28	0.38	-0.10	0.58	-0.30	12
9/23	1	0.34	0.31	0.03	-0.31	0.65	12
9/26	1	-1.76	-1.71	-0.05	-1.66	-0.10	8
9/27	1	0.10	0.18	-0.09	0.10	0.0	9
9/28	1	1.76	1.77	0.0	1.65	0.11	5
10/2	1	-0.21	-0.16	-0.05	0.13	-0.34	7
10/3	1	-1.28	-1.25	-0.04	-1.15	-0.13	12
10/4	1	-1.44	-1.36	-0.08	-1.22	-0.22	9
	2	-0.01	-0.04	0.03	0.22	-0.23	5
10/6	1	-2.98	-2.95	-0.03	-2.51	-0.47	12
	2	-2.37	-2.25	-0.12	-1.99	-0.37	9
10/10	1	0.18	0.02	0.16	0.01	0.18	12
10/11	1	-0.56	-0.15	-0.41	-0.27	-0.29	11
10/12	1	-0.41	-0.32	-0.09	0.0	-0.41	9
10/13	1	-1.09	-0.39	-0.70	-0.55	-0.54	12

SECTION III

PLOTS: CROSS-SECTIONS OF DAILY MEASURED CURRENT VELOCITY, DAILY BAROCLINIC GEOSTROPHIC VELOCITY AND TEMPERATURE

TABLES: DAILY TRANSPORT

HOURLY WIND VELOCITY AND STRESS

ALERT 1

MAY 15 - JUNE 15, 1972

Errata: Wind stress values are in units of 10^{-2} DYNES/CM^2, not 10^{-1} DYNES/CM^2 as indicated.

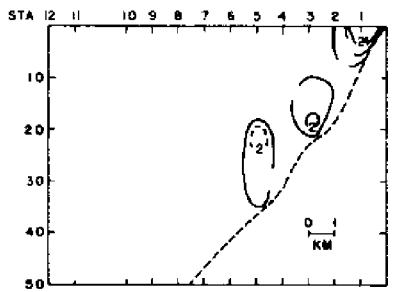
CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 5/17

OLCOTT

DEPTH (M)

no data

OSHAWA



ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.04	-0.03	0.02^4
PRESQU'ILE	---	---	---

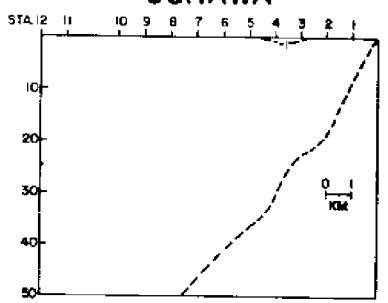
CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 5/17

OLCOTT

DEPTH (M)

no data

OSHAWA



ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

CROSS SECTIONS OF TEMPERATURE

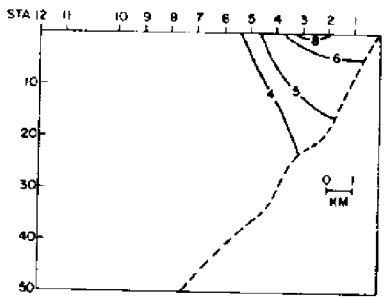
DATE: 5/17

DEPTH (M)

OLCOTT

no data

OSHAWA



ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.04	-0.01	0.04
PRESQU'ILE	---	---	---

HOURLY WIND SPEED AND STRESS

DATE: 5/17

BUOY 10 (ROCHESTER & PRESQU'ILE)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	3.80	274	23	0	23.00
1	3.45	283	19	-3	19.24
2	3.09	281	16	-2	16.12
3	2.61	291	11	-3	14.21
4	3.16	294	14	-6	15.23
5	2.32	316	7	-5	8.60
6	1.41	256	4	1	4.12
7	1.73	261	5	1	5.10
8	2.87	259	13	3	13.34
9	2.60	274	11	0	11.00
10	2.34	324	5	-6	7.81
11	2.38	307	8	-5	9.43
12	2.24	292	8	-2	8.25
13	0.64	271	1	0	1.00
14	1.47	323	3	-4	5.00
15	1.99	335	3	-5	5.83
16	2.20	260	8	2	8.25
17	2.52	265	10	1	10.05
18	1.95	244	6	3	6.71
19	1.80	206	3	5	5.83
20	2.43	235	8	5	9.43
21	1.74	252	5	2	5.39
22	1.72	257	5	1	5.10
23	1.86	271	6	0	6.00
AVER			8.4	-0.7	8.5

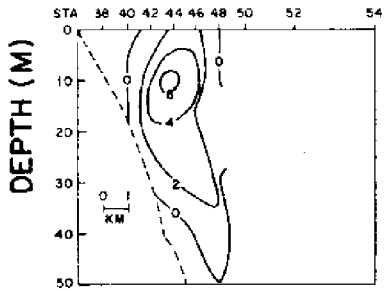
BUOY 11 (OSWEGO)

BUOY 5 (OLCOTT & OSHAWA)

WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
1.73	219			
1.51	333			
0.51	270			
1.32	355			
0.60	177			
1.64	221			
1.99	227			
1.24	218			
1.53	251			
2.16	289			
2.48	292			
2.93	288			
2.83	236			
2.54	251			
2.71	272			
2.77	297			
1.73	291			
1.56	111			
0.54	092			
1.80	131			
0.97	141			
0.61	251			
0.53	246			
0.60	145			

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 5/18

OLCOTT



OSHAWA

no data

ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

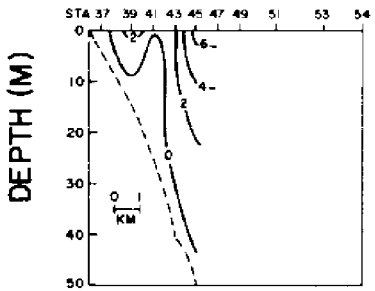
DAILY LONGSHORE VELOCITY TRANSPORT (V)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	0.30	0.0	0.30^6
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 5/18

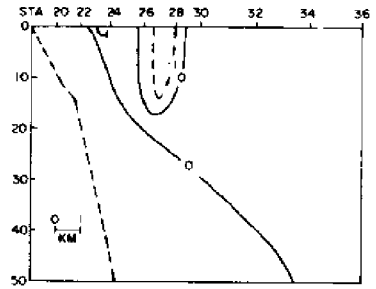
OLCOTT



OSHAWA

no data

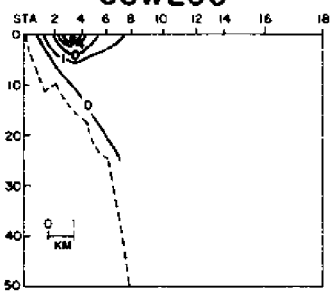
ROCHESTER



PRESQU'ILE

no data

OSWEGO

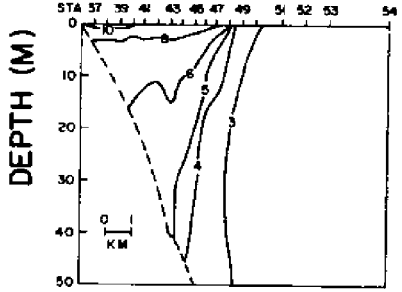


DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.06	0.0	0.06^4
ROCHESTER	0.01	-0.07	-0.06^7
OLCOTT	0.10	-1.75	-1.65^6
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

CROSS SECTIONS OF TEMPERATURE
DATE: 5/18

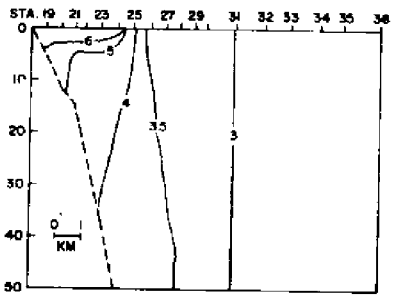
OLCOTT



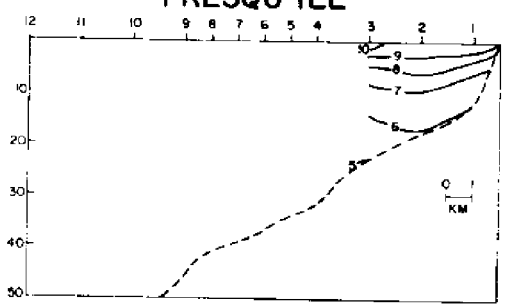
OSHAWA

no data

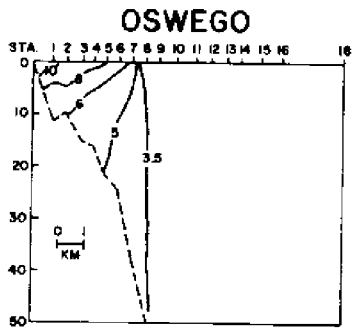
ROCHESTER



PRESQU'ILE



OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	0.20	1.75	1.95^6
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

HOURLY WIND SPEED AND STRESS

DATE: 5/18

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	1.41	251	3	1	
1	1.35	276	3	0	
2	2.83	289	12	-3	
3	2.06	278	7	0	
4	2.25	287	8	-2	
5	2.04	181	0	8	
6	3.07	219	10	12	
7	2.70	252	12	4	
8	2.75	261	12	2	
9	1.81	222	4	4	
10	1.14	229	2	2	
11	1.12	199	0	3	
12	1.39	191	0	4	
13	2.73	204	5	11	
14	2.38	249	10	4	
15	1.70	264	---	---	
16	---	---	---	---	
17	---	---	5	0	
18	0.59	226	1	1	
19	1.84	333	3	-5	
20	2.62	329	5	-9	
21	3.65	318	14	-15	
22	3.70	270	22	0	
23	2.82	025	-8	-15	
AVER			5.9	0.3	5.9

BUOY 10 (ROCHESTER & PRESQU'ILE)

WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R

BUOY 5 (OLCOTT & OSHAWA)

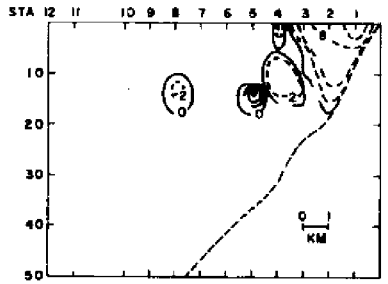
WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
1.20	136			
1.54	343			
0.74	108			
0.75	345			
0.47	236			
1.15	228			
0.59	214			
1.60	209			
0.43	086			
1.27	044			
1.15	049			
0.90	133			
0.62	131			
1.21	089			
2.31	116			
2.26	095			
2.36	089			
2.16	083			
2.99	060			
3.70	083			
2.95	103			
1.86	087			
2.40	092			
2.08	059			

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 5/19

OLCOTT

no data

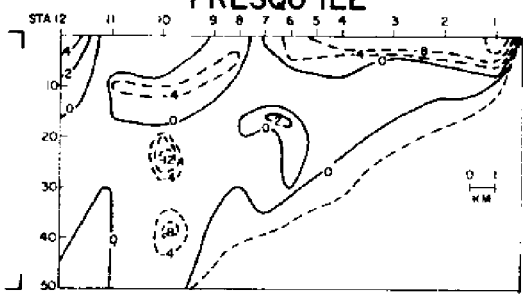
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

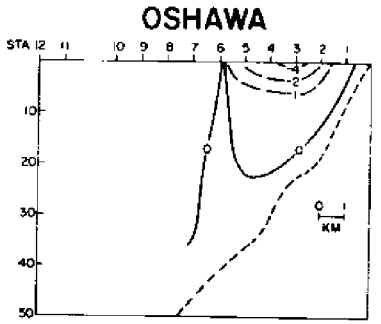
LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.06	-0.18	-0.13
PRESQU'ILE	0.10	-1.01	-0.92^{10}

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 5/19

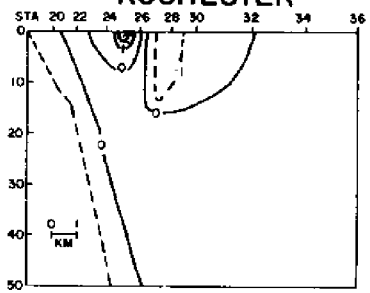
OLCOTT

no data

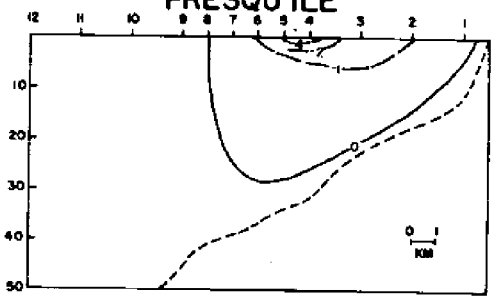
OSHAWA



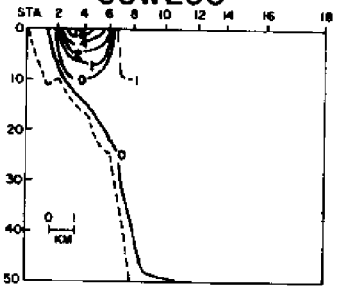
ROCHESTER



PRESQU'ILE



OSWEGO

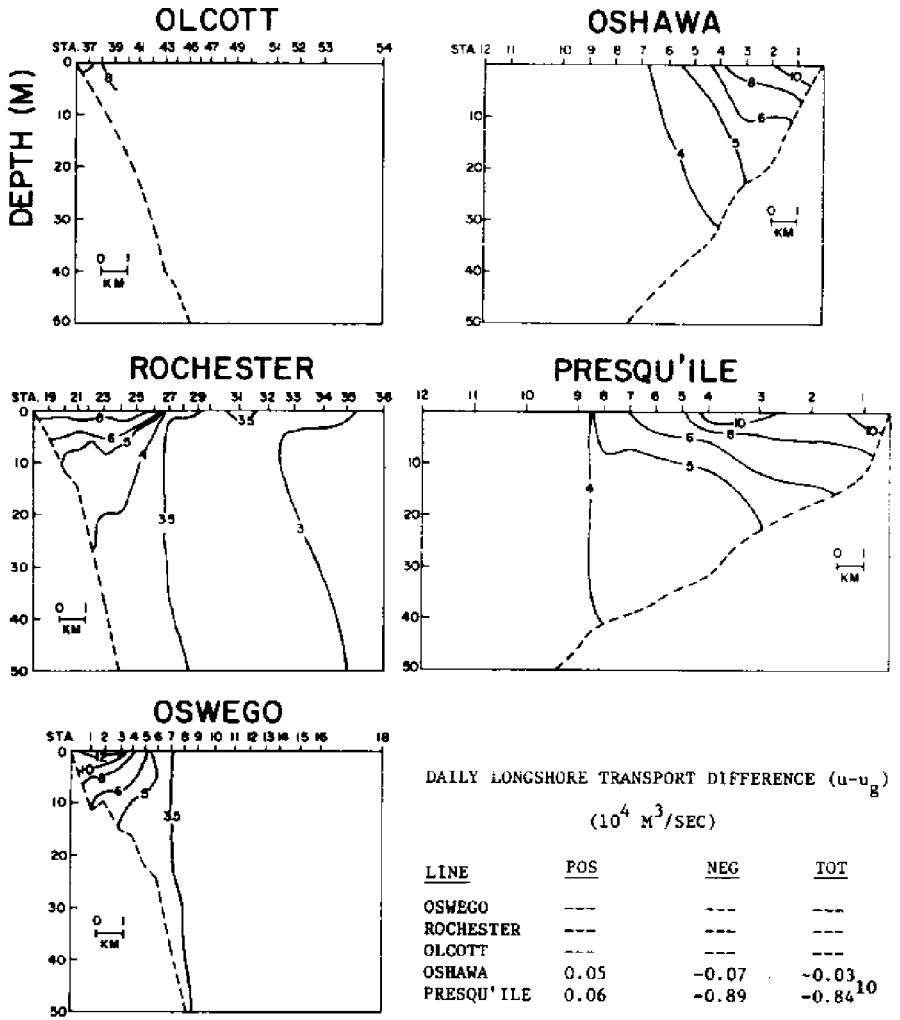


DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.07	-0.06	0.01^6
ROCHESTER	0.03	-0.09	-0.07^8
OLCOTT	---	---	---
OSHAWA	0.01	-0.11	-0.10
PRESQU'ILE	0.04	-0.12	-0.08^{10}

CROSS SECTIONS OF TEMPERATURE

DATE: 5/19



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.05	-0.07	-0.03
PRESQU'ILE	0.06	-0.89	-0.84

10

DATE: 5/19

HOURLY WIND SPEED AND STRESS

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	3.35	092	-18	0							1.24	049			
1	1.52	092	-3	0							1.75	005			
2	1.11	060	-1	0							2.65	179			
3	1.38	192	1	4							1.42	164			
4	1.74	332	2	-4							0.76	053			
5	2.18	326	4	-5							1.98	063			
6	2.49	297	9	-4							2.28	032			
7	1.60	313	3	-2							2.51	023			
8	2.68	016	-2	-10							2.15	012			
9	3.73	042	-14	-15							2.74	358			
10	4.80	042	-23	-25							3.30	002			
11	5.46	057	-38	-25							3.19	040			
12	5.00	067	-40	-17							3.17	072			
13	5.79	056	-42	-30							2.60	115			
14	3.40	053	-25	-19							2.47	140			
15	5.37	047	-32	-29							1.28	068			
16	4.91	038	-22	-29							1.67	050			
17	3.43	040	-11	-14							0.80	142			
18	2.80	063	-10	-5							1.57	001			
19	2.13	090	-7	1							0.45	003			
20	1.76	059	-4	-3							0.82	215			
21	0.94	056	0	0							1.14	004			
22	1.99	047	-4	-3							2.04	355			
23	2.96	043	-9	-9							1.33	024			
AVER			-11.9	-10.1	15.6										

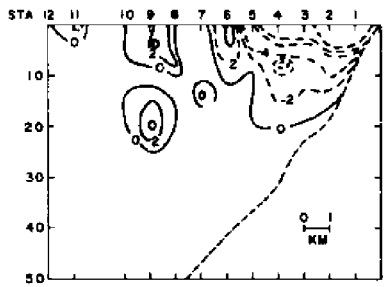
CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 5/20

OLCOTT

DEPTH (M)

no data

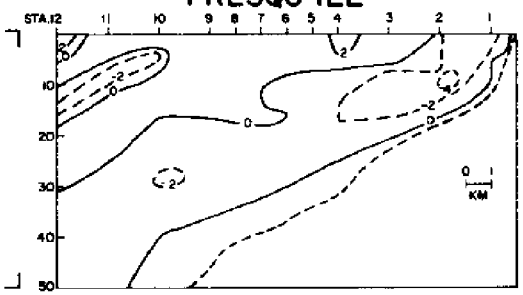
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE VELOCITY TRANSPORT (υ)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.11	-0.33	-0.22
PRESQU'ILE	0.06	-0.40	-0.34^{10}

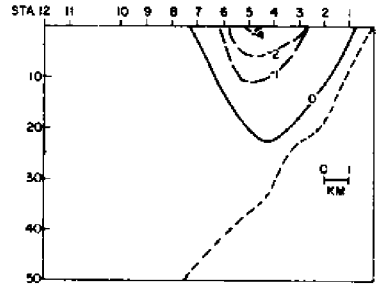
CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 5/20

OLCOTT

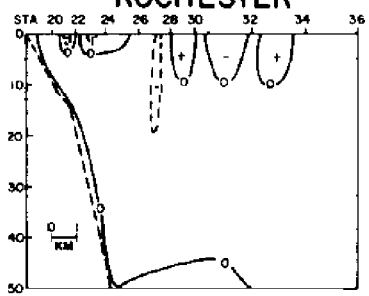
DEPTH (M)

no data

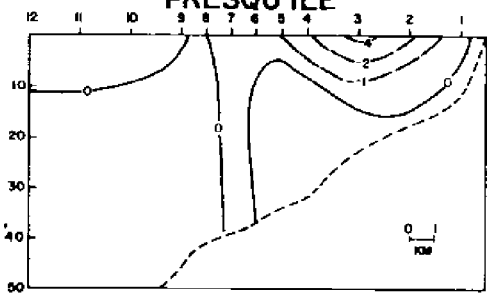
OSHAWA



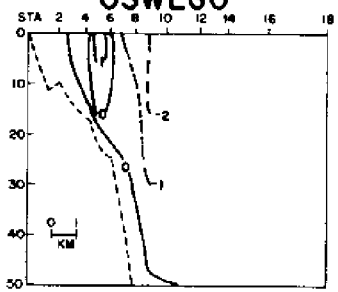
ROCHESTER



PRESQU'ILE



OSWEGO



DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.02	-0.08	-0.06^{6}
ROCHESTER	0.01	-0.08	-0.08^{8}
OLCOTT	---	---	---
OSHAWA	0.11	-0.17	-0.05
PRESQU'ILE	0.04	-0.16	-0.13^{10}

CROSS SECTIONS OF TEMPERATURE

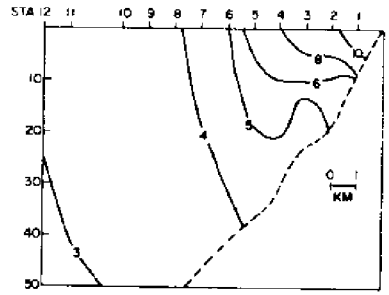
DATE: 5/20

OLCOTT

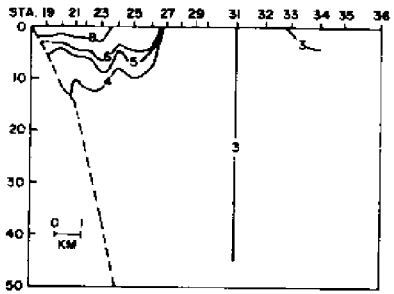
DEPTH (M)

no data

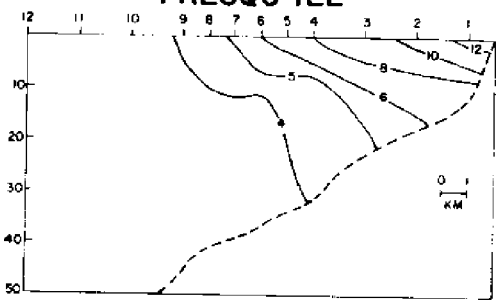
OSHAWA



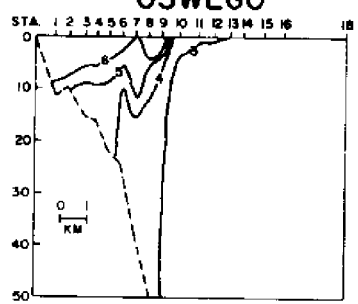
ROCHESTER



PRESQU'ILE



OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.0	-0.16	-0.17
PRESQU'ILE	0.02	-0.24	-0.21

HOURLY WIND SPEED AND STRESS

DATE: 5/20

BUOY 10 (ROCHESTER & PRESQU'ILE)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0					
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
AVER					

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	3.95	049	-17	-15	
1	4.34	075	-27	-6	
2	5.11	089	-39	0	
3	4.27	091	-28	0	
4	4.28	089	-27	0	
5	4.59	098	-31	5	
6	4.80	113	-32	14	
7	3.71	107	-19	6	
8	4.55	116	-28	14	
9	4.13	101	-26	6	
10	5.25	126	-34	25	
11	4.90	131	-27	25	
12	4.43	126	-24	18	
13	4.35	115	-26	13	
14	3.79	092	-22	0	
15	3.12	098	-14	2	
16	1.97	073	-6	0	
17	1.42	121	-3	2	
18	0.44	109	0	1	
19	2.05	014	-1	-6	
20	2.20	093	-7	0	
21	3.09	145	-7	13	
22	4.34	173	-2	29	
23	4.26	179	0	28	
AVER			-18.6	7.3	20.0

BUOY 5 (OLCOTT & OSHAWA)

WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
1.93	015			
2.31	016			
1.46	050			
1.62	033			
2.98	025			
2.99	027			
2.60	076			
2.81	094			
3.64	069			
4.44	079			
4.35	061			
4.57	061			
4.67	060			
5.37	083			
5.10	075			
5.35	071			
4.09	078			
3.74	069			
3.64	061			
2.99	070			
3.91	109			
2.93	097			
4.30	126			
2.90	104			

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY

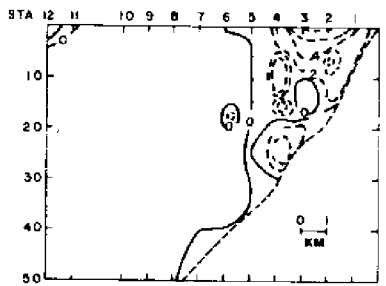
DATE: 5/21

DEPTH (M)

OLCOTT

no data

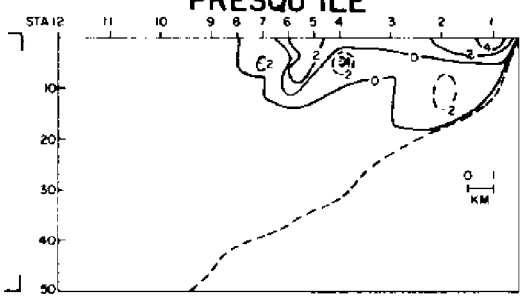
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.03	-0.30	-0.27
PRESQU'ILE	0.06	-0.13	-0.06

10

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY

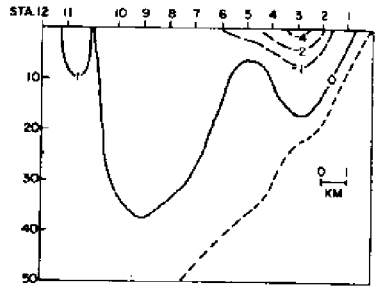
DATE: 5/21

DEPTH (M)

OLCOTT

no data

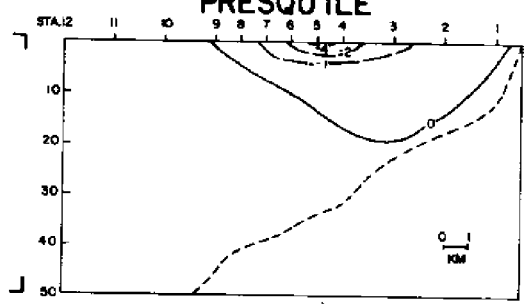
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

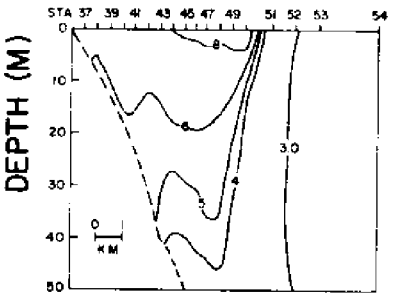
LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.12	-0.14	-0.02
PRESQU'ILE	0.05	-0.12	-0.07

10

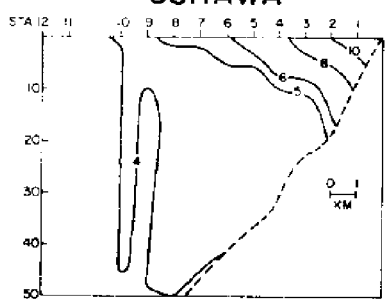
CROSS SECTIONS OF TEMPERATURE

DATE: 5/21

OLCOTT



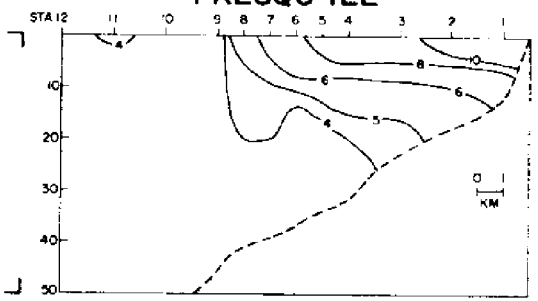
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	-0.09	-0.16	-0.25
PRESQU'ILE	0.01	-0.01	0.0

10

HOURLY WIND SPEED AND STRESS

DATE: 5/21

BUOY 10 (ROCHESTER & PRESQU'ILE)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	2.69	203	4	13	
1	2.32	343	3	-8	
2	0.62	221	1	-1	
3	1.05	319	2	-1	
4	1.43	282	4	0	
5	0.87	220	1	1	
6	1.15	190	0	3	
7	0.78	295	1	0	
8	1.68	219	3	4	
9	2.23	264	8	1	
10	2.72	261	12	2	
11	2.92	256	13	3	
12	3.99	257	24	5	
13	3.15	242	14	7	
14	3.20	227	12	11	
15	2.85	226	9	10	
16	2.74	221	8	9	
17	2.75	243	11	6	
18	2.82	226	9	9	
19	2.75	196	3	12	
20	2.88	216	8	11	
21	1.24	216	2	3	
22	1.99	213	3	5	
23	1.90	136	-4	4	
AVER			6.3	4.6	7.8

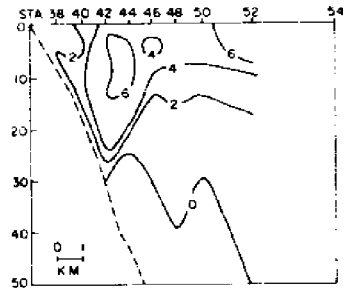
BUOY 11 (OSWEGO)

BUOY 5 (OLCOTT & OSHAWA)

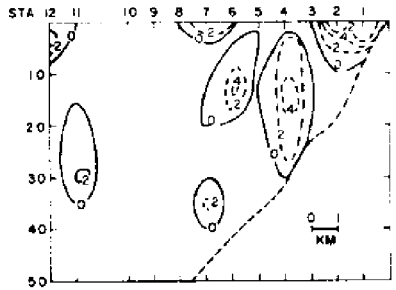
WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
2.32	057			
1.93	077			
2.23	011			
1.28	054			
1.36	346			
2.33	340			
0.73	335			
2.34	213			
2.80	231			
2.65	219			
1.43	221			
0.30	336			
1.51	002			
2.21	004			
0.55	132			
1.88	202			
0.83	244			
1.30	199			
2.99	216			
1.50	233			
1.98	065			
2.69	089			
2.24	080			
1.28	080			

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 5/22

OLCOTT



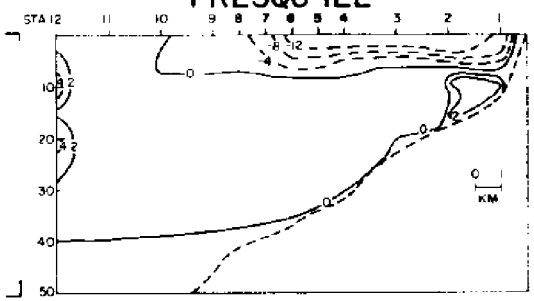
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

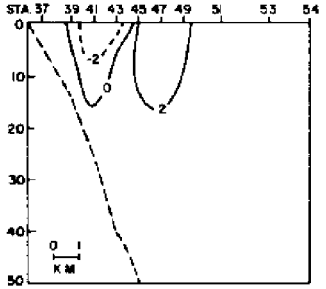
DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

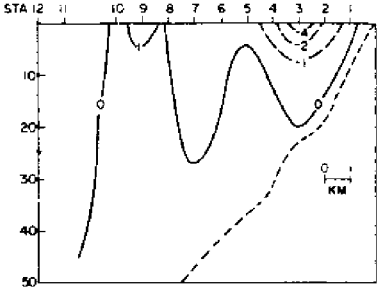
LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT - 1	0.61	0.0	0.61^8
2	0.74	0.0	0.74^8
OSHAWA	0.09	-0.27	-0.17^{10}
PRESQU'ILE	0.20	-0.45	-0.25^{10}

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 5/22

OLCOTT



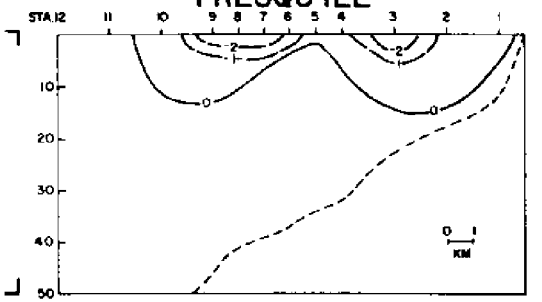
OSHAWA



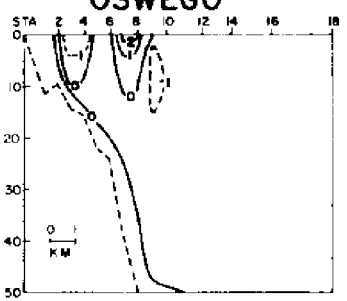
ROCHESTER

no data

PRESQU'ILE



OSWEGO



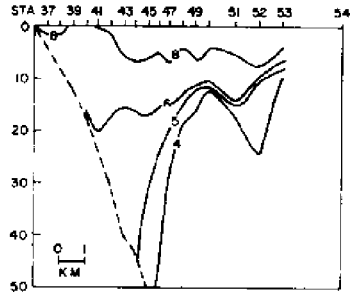
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	0.01	-0.08	-0.07^6
2	0.01	-0.03	-0.02^6
ROCHESTER	---	---	---
OLCOTT - 1	0.18	-0.03	0.15^8
2	0.18	-0.04	0.14^8
OSHAWA	0.07	-0.16	-0.10^{10}
PRESQU'ILE	0.05	-0.13	-0.08^{10}

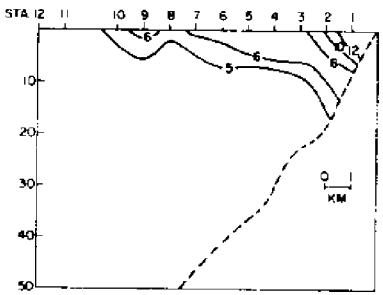
CROSS SECTIONS OF TEMPERATURE

DATE: 5/22

OLCOTT



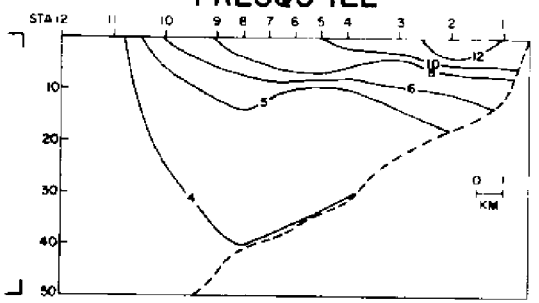
OSHAWA



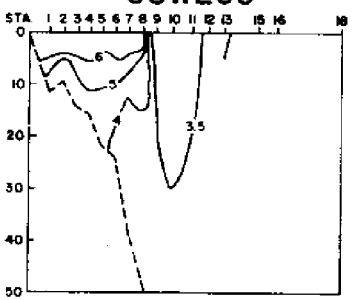
ROCHESTER

no data

PRESQU'ILE



OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT - 1	0.43	0.03	0.47^8
2	0.56	0.04	0.60^8
OSHAWA	0.02	-0.11	-0.08
PRESQU'ILE	0.15	-0.32	-0.17^{10}

DATE: 5/22

HOURLY WIND SPEED AND STRESS

BUOY 10 (ROCHESTER & PRESQU'ILE)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	2.57	167	- 1	10	
1	1.66	190	1	5	
2	1.67	338	2	- 4	
3	2.91	019	- 3	-12	
4	3.01	005	0	-13	
5	2.12	020	- 1	- 6	
6	4.50	041	-20	-23	
7	4.32	046	-20	-19	
8	4.47	062	-27	-13	
9	4.13	049	-20	-17	
10	4.78	030	-17	-30	
11	4.01	066	-22	- 9	
12	3.84	046	-16	-15	
13	2.93	066	-13	- 7	
14	3.75	047	-15	-15	
15	3.61	035	-11	-16	
16	3.07	024	- 5	-12	
17	3.10	044	- 9	-10	
18	1.79	061	- 4	- 2	
19	1.36	334	2	- 2	
20	2.17	316	5	- 4	
21	2.85	343	4	-11	
22	3.49	348	4	-17	
23	3.20	007	0	-16	
AVER			- 7.8	-10.8	13.3

BUOY 5 (OLCOTT & OSHAWA)

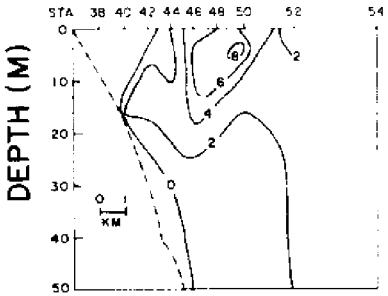
WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
2.73	134			
2.45	119			
2.58	179			
2.91	179			
2.99	069			
3.09	083			
4.25	088			
3.20	082			
3.09	083			
2.60	104			
3.16	100			
2.90	060			
4.17	047			
3.94	060			
3.31	067			
3.61	060			
3.39	097			
3.06	147			
2.32	177			
0.38	229			
1.18	181			
1.22	326			
2.27	340			
1.20	346			

BUOY 11 (OSWEGO)

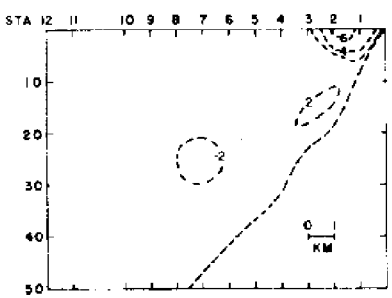
WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
2.57	167	- 1	10	
1.66	190	1	5	
1.67	338	2	- 4	
2.91	019	- 3	-12	
3.01	005	0	-13	
2.12	020	- 1	- 6	
4.50	041	-20	-23	
4.32	046	-20	-19	
4.47	062	-27	-13	
4.13	049	-20	-17	
4.78	030	-17	-30	
4.01	066	-22	- 9	
3.84	046	-16	-15	
2.93	066	-13	- 7	
3.75	047	-15	-15	
3.61	035	-11	-16	
3.07	024	- 5	-12	
3.10	044	- 9	-10	
1.79	061	- 4	- 2	
1.36	334	2	- 2	
2.17	316	5	- 4	
2.85	343	4	-11	
3.49	348	4	-17	
3.20	007	0	-16	
		- 7.8	-10.8	13.3

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 5/23

OLCOTT



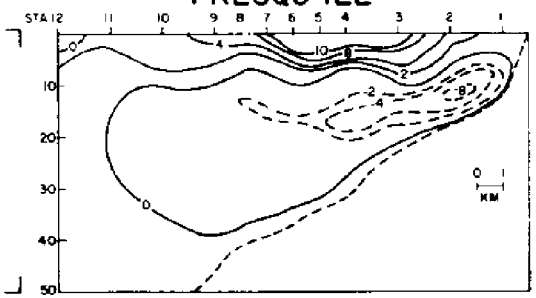
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

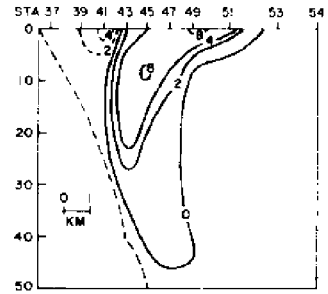
DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

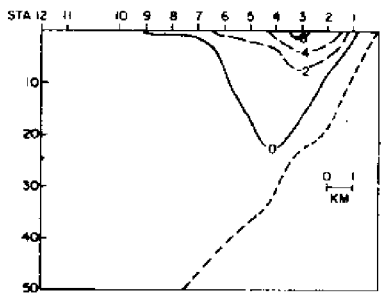
LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	0.75	0.0	0.75^8
OSHAWA	0.07	-0.11	-0.04^{10}
PRESQU'ILE	0.43	-0.37	0.06^{10}

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 5/23

OLCOTT



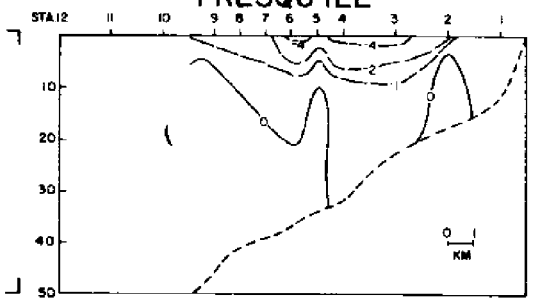
OSHAWA



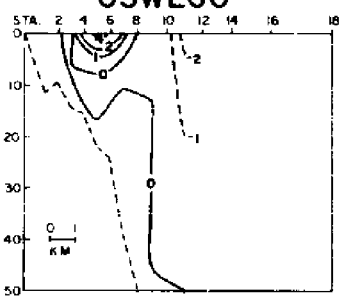
ROCHESTER

no data

PRESQU'ILE



OSWEGO



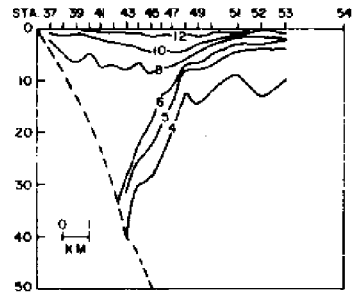
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	0.02	-0.06	-0.04^6
2	0.04	-0.06	-0.02^6
ROCHESTER	---	---	---
OLCOTT	0.34	-0.04	0.30^8
OSHAWA	0.04	-0.17	-0.14^{10}
PRESQU'ILE	0.05	-0.14	-0.09^{10}

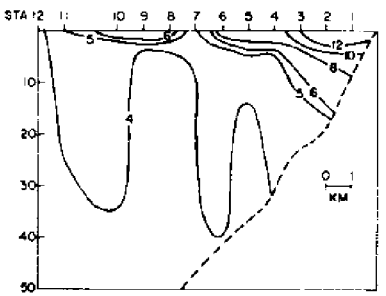
CROSS SECTIONS OF TEMPERATURE

DATE: 5/23

OLCOTT



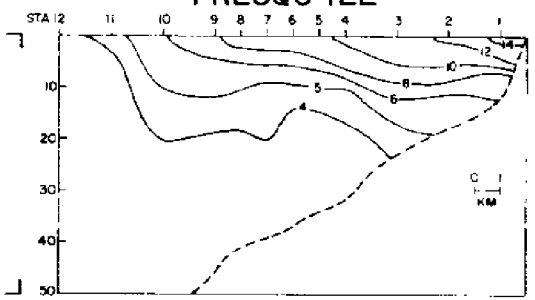
OSHAWA



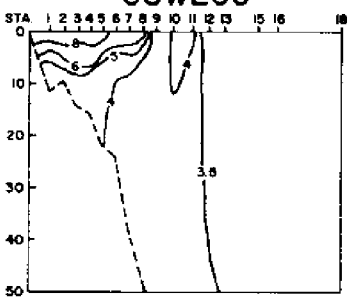
ROCHESTER

no data

PRESQU'ILE



OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	0.41	0.04	0.45^8
OSHAWA	0.03	0.06	0.10
PRESQU'ILE	0.38	-0.23	0.15^{10}

DATE: 5/23

HOURLY WIND SPEED AND STRESS

BUOY 5 (OLCOTT & OSHAWA)

	WIND(M/S)		STRESS(10^{-1}DYNE/CM^2)		
	SP	DIR	E	N	R
	2.25	006			
	2.66	013			
	3.17	359			
	3.79	001			
	2.56	357			
	0.86	006			
	1.52	267			
	2.46	290			
	2.73	325			
	1.77	026			
	1.82	211			
	2.68	270			
	2.13	304			
	1.80	265			
	2.45	271			
	2.21	290			
	2.96	279			
	2.68	258			
	3.30	248			
	3.41	256			
	2.95	271			
	3.33	256			
	2.41	266			
	2.60	332			

BUOY 10 (ROCHESTER & PRESQU'ILE)

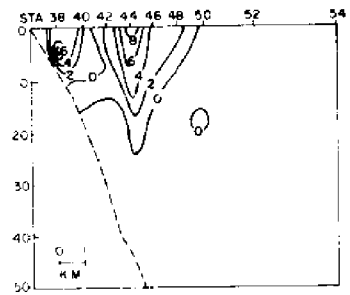
	WIND(M/S)		STRESS(10^{-1}DYNE/CM^2)		
	SP	DIR	E	N	R

BUOY 11 (OSWEGO)

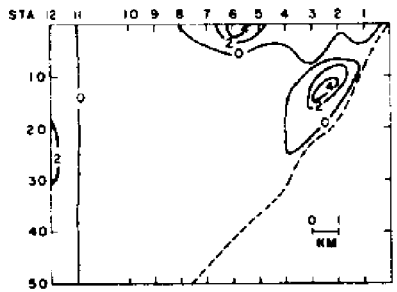
TIME GMT	WIND(M/S)		STRESS(10^{-1}DYNE/CM^2)		
	SP	DIR	E	N	R
0	2.25	348	2	- 9	
1	2.93	312	10	- 9	
2	2.00	292	6	- 2	
3	1.96	309	5	- 3	
4	2.07	358	0	- 6	
5	1.95	080	- 5	0	
6	0.54	280	3	0	
7	2.85	304	10	- 6	
8	2.66	317	8	- 7	
9	1.35	350	1	- 2	
10	1.46	157	0	4	
11	2.35	232	8	6	
12	1.96	283	6	0	
13	1.59	307	3	- 2	
14	1.40	196	1	4	
15	2.33	229	6	5	
16	2.34	233	7	5	
17	2.61	239	9	6	
18	2.73	268	11	0	
19	2.65	280	11	- 1	
20	3.12	274	15	0	
21	3.32	275	17	0	
22	3.35	274	17	0	
23	3.81	289	21	- 6	
AVER			7.2	- 1.0	7.2

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 5/24

OLCOTT



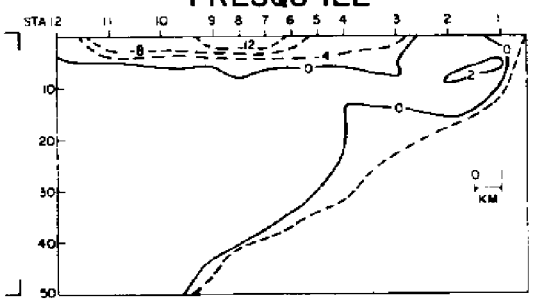
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

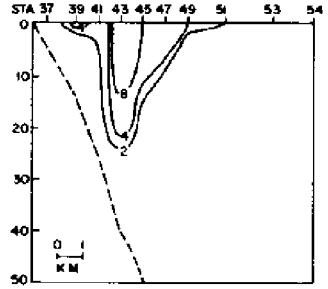
DAILY LONGSHORE VELOCITY TRANSPORT (v)

(10^4 M^3/SEC)

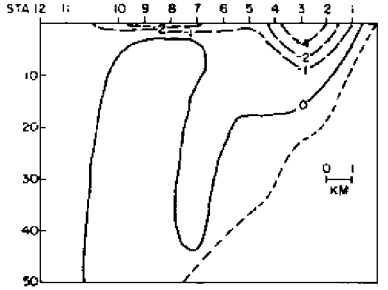
LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT - 1	0.18	0.0	0.18^8
2	0.38	-0.03	0.36^8
OSHAWA	0.23	0.0	+0.22
PRESQU'ILE	0.11	-0.39	-0.28^{11}

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 5/24

OLCOTT



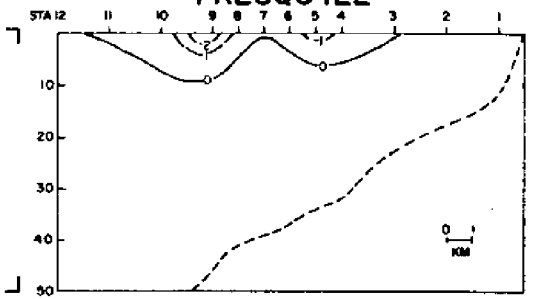
OSHAWA



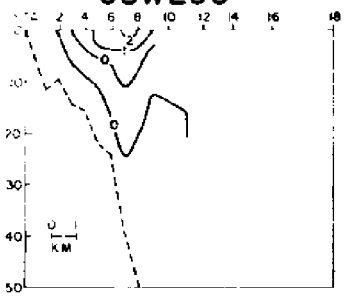
ROCHESTER

no data

PRESQU'ILE



OSWEGO



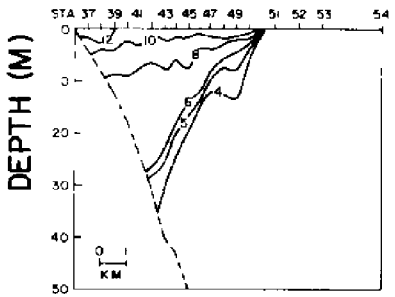
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	0.02	0.0	0.02^6
2	0.07	0.0	0.07^6
ROCHESTER	---	---	---
OLCOTT - 1	0.35	-0.02	0.34^8
2	0.35	-0.01	0.34^8
OSHAWA	0.01	-0.12	-0.11
PRESQU'ILE	0.08	-0.06	0.02^{11}

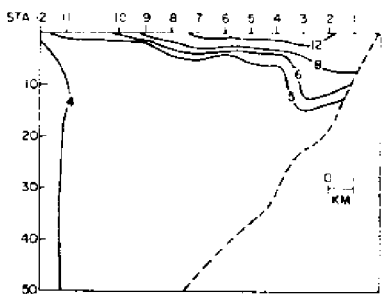
CROSS SECTIONS OF TEMPERATURE

DATE: 5/24

OLCOTT



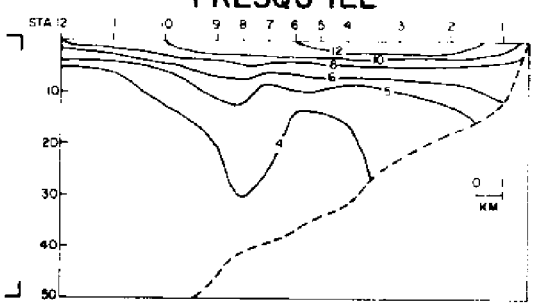
OSHAWA



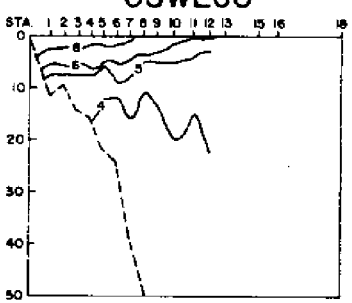
ROCHESTER

no data

PRESQU'ILE



OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT - 1	-0.17	0.02	-0.16^{8}
2	0.03	-0.02	0.02^{8}
OSHAWA	0.22	0.12	0.33
PRESQU'ILE	0.03	-0.33	-0.30^{11}

HOURLY WIND SPEED AND STRESS

DATE: 5/24

BUOY 10 (ROCHESTER & PRESQU'ILE)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	3.73	301	18	-10	
1	3.86	289	22	- 6	
2	3.53	265	19	1	
3	3.46	255	18	5	
4	3.95	265	24	2	
5	4.20	281	27	- 4	
6	4.79	295	33	-14	
7	4.05	303	22	-13	
8	3.69	300	19	-10	
9	4.40	345	9	-29	
10	3.99	016	- 6	-22	
11	3.99	023	- 9	-21	
12	4.52	045	-21	-21	
13	4.02	062	-22	-11	
14	3.85	043	-14	-15	
15	4.16	040	-17	-20	
16	3.75	036	-12	-16	
17	2.82	029	- 5	-10	
18	3.37	015	- 3	-16	
19	3.56	040	-11	-14	
20	2.88	049	- 8	- 7	
21	3.16	036	- 8	-11	
22	3.41	041	-10	-12	
23	3.02	047	- 9	- 9	
AVER			2.3	-11.8	12.0

BUOY 11 (OSWEGO)

WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
2.48	328			
2.21	350			
1.63	304			
2.63	267			
2.55	270			
3.03	235			
3.29	257			
2.58	267			
2.00	265			
3.39	288			
3.36	320			
2.98	314			
2.81	269			
2.95	280			
2.30	326			
2.44	352			
1.35	077			
2.31	173			
2.51	151			
2.49	154			
2.16	134			
1.56	109			
1.37	066			
1.97	103			

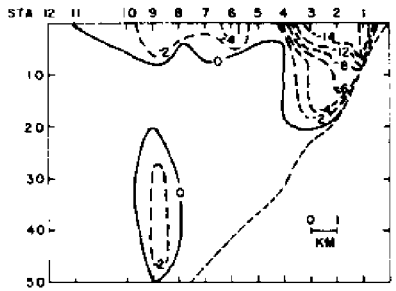
BUOY 5 (OLCOTT & OSHAWA)

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 5/25

OLCOTT

no data

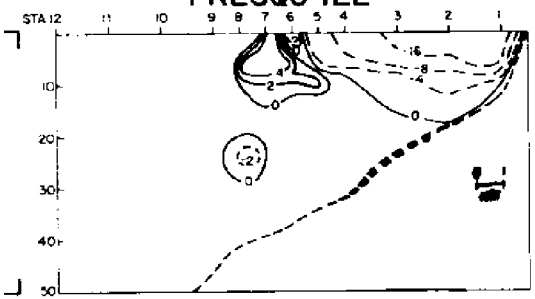
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

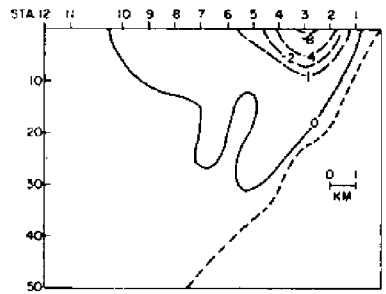
LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.01	-0.55	-0.54
PRESQU'ILE	0.11	-0.75	-0.65[8]

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 5/25

OLCOTT

no data

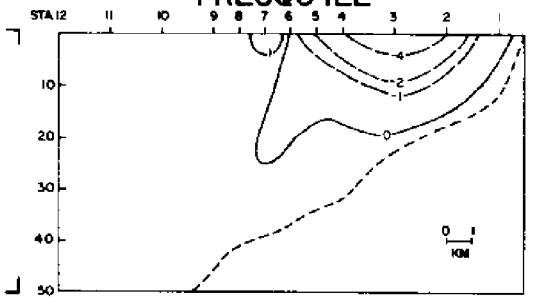
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.07	-0.21	-0.15
PRESQU'ILE	0.05	-0.18	-0.13[8]

CROSS SECTIONS OF TEMPERATURE

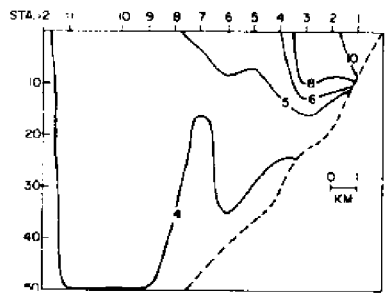
DATE: 5/25

DEPTH (M)

OLCOTT

no data

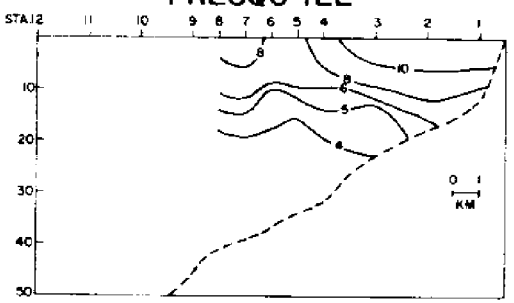
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	-0.06	-0.34	-0.39
PRESQU'ILE	0.06	-0.57	-0.52^8

HOURLY WIND SPEED AND STRESS

DATE: 5/25

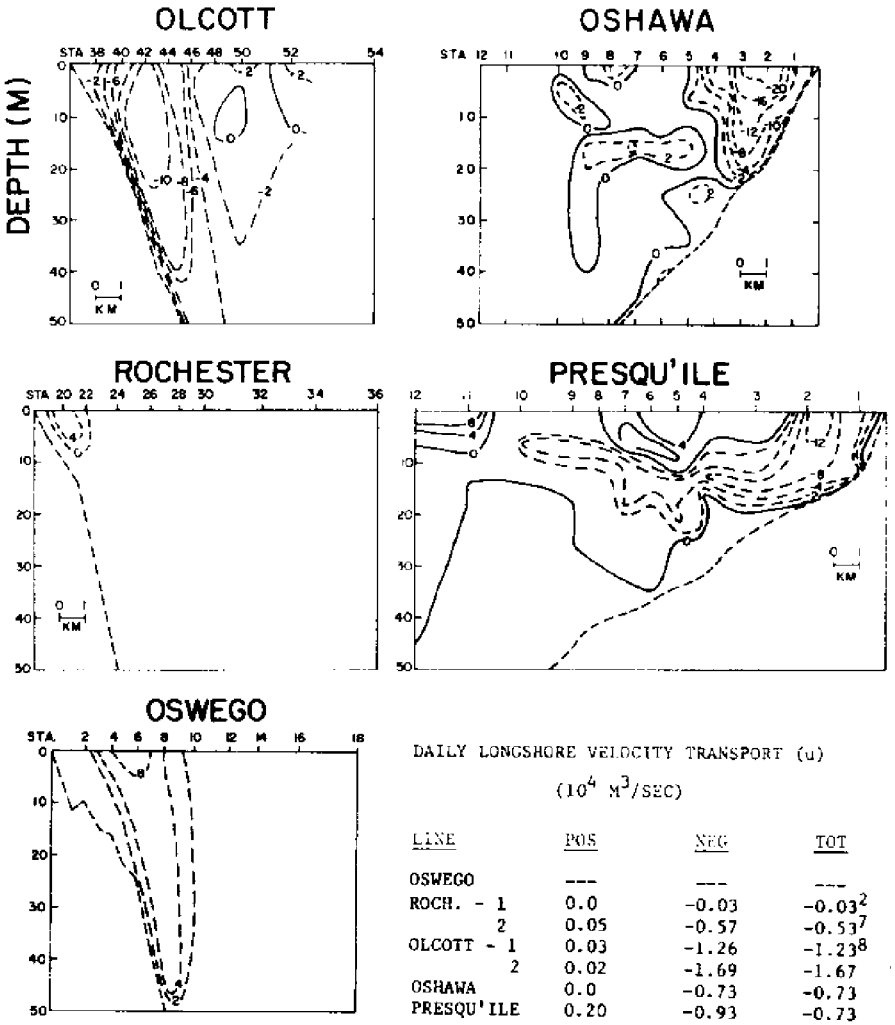
BUOY 10 (ROCHESTER & PRESQU'ILE)

BUOY 5 (OLCOTT & OSHAWA)

BUOY 11 (OSWEGO)

TIME GMT	BUOY 10 WIND(M/S) SP	BUOY 10 WIND(M/S) DIR	BUOY 10 STRESS(10^{-1}DYNE/CM^2) E	BUOY 10 STRESS(10^{-1}DYNE/CM^2) N	BUOY 10 STRESS(10^{-1}DYNE/CM^2) R	BUOY 5 WIND(M/S) SP	BUOY 5 WIND(M/S) DIR	BUOY 5 STRESS(10^{-1}DYNE/CM^2) E	BUOY 5 STRESS(10^{-1}DYNE/CM^2) N	BUOY 5 STRESS(10^{-1}DYNE/CM^2) R	BUOY 11 WIND(M/S) SP	BUOY 11 WIND(M/S) DIR	BUOY 11 STRESS(10^{-1}DYNE/CM^2) E	BUOY 11 STRESS(10^{-1}DYNE/CM^2) N	BUOY 11 STRESS(10^{-1}DYNE/CM^2) R
0						2.24	115				2.34	056	- 6	- 4	
1						2.74	026				3.05	077	-13	- 2	
2						3.45	023				2.94	072	-12	- 3	
3						3.63	043				2.85	022	- 4	-11	
4						3.72	044				3.12	009	- 2	-14	
5						4.00	067				4.12	033	-15	-21	
6						3.74	056				5.66	062	-43	-22	
7						4.02	061				5.58	049	-37	-32	
8						5.35	067				5.45	058	-43	-26	
9						6.14	077				5.70	071	-52	-17	
10						6.38	072				5.47	075	-45	-11	
11						5.79	074				6.56	059	-62	-36	
12						6.08	059				7.57	048	-65	-58	
13						7.04	090				6.16	062	-53	-29	
14						6.67	087				6.18	048	-45	-41	
15						6.30	072				6.66	063	-62	-30	
16						5.50	106				6.38	062	-56	-30	
17						4.24	087				6.56	049	-49	-42	
18						3.36	114				5.45	066	-41	-18	
19						3.86	173				4.78	055	-29	-20	
20						2.69	160				4.62	044	-22	-23	
21						2.83	077				4.98	051	-29	-23	
22						3.52	095				4.48	058	-26	-15	
23						3.83	073				4.72	072	-32	-10	
AVER													-35.1	-22.4	41.7

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 5/26

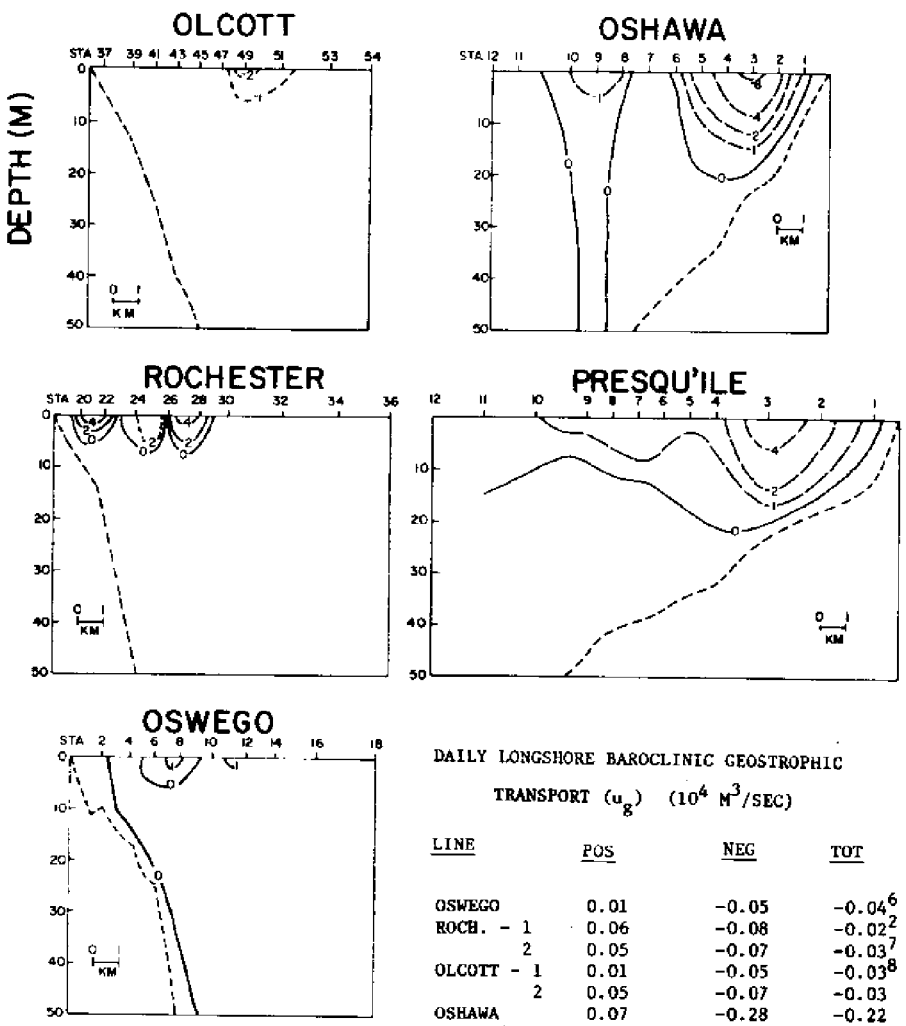


DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCH. - 1	0.0	-0.03	-0.03^2
2	0.05	-0.57	-0.53^7
OLCOTT - 1	0.03	-1.26	-1.23^8
2	0.02	-1.69	-1.67
OSHAWA	0.0	-0.73	-0.73
PRESQU'ILE	0.20	-0.93	-0.73

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 5/26



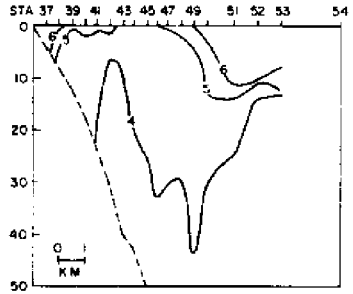
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.01	-0.05	-0.04^6
ROCH. - 1	0.06	-0.08	-0.02^2
2	0.05	-0.07	-0.03^7
OLCOTT - 1	0.01	-0.05	-0.03^8
2	0.05	-0.07	-0.03
OSHAWA	0.07	-0.28	-0.22
PRESQU'ILE	0.02	-0.39	-0.37

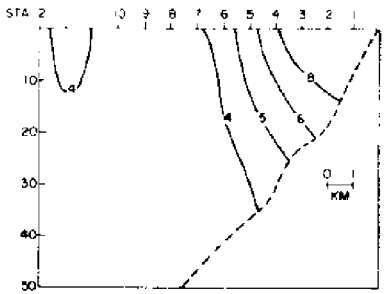
CROSS SECTIONS OF TEMPERATURE

DATE: 5/26

OLCOTT



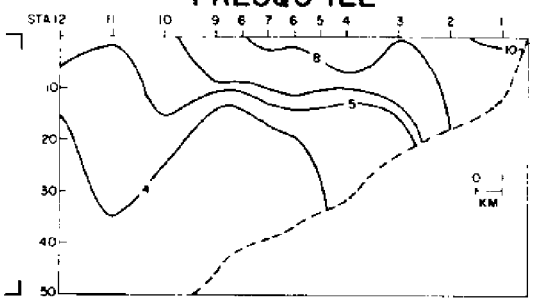
OSHAWA



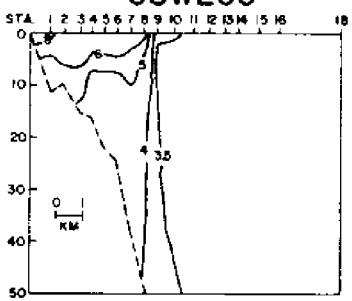
ROCHESTER

no data

PRESQU'ILE



OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE $(u-u_g)$

$(10^4\ M^3/SEC)$

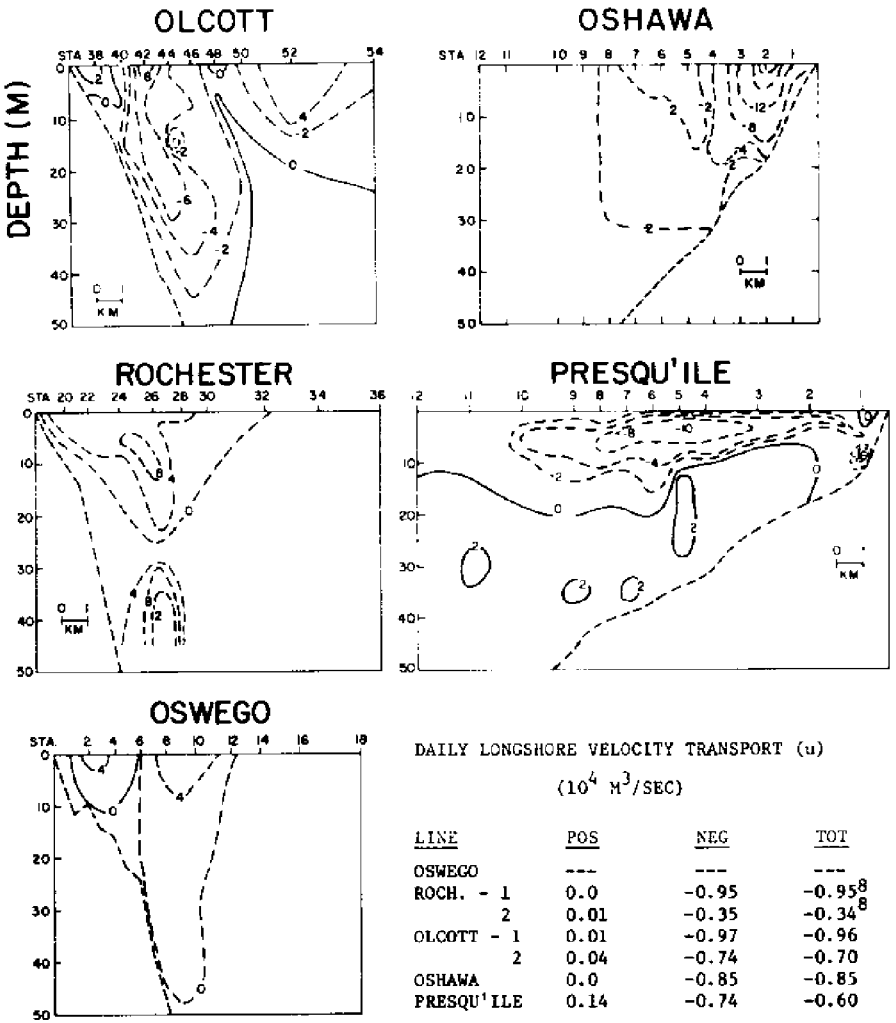
LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCH. - 1	-0.06	0.05	-0.01^2
2	0.0	-0.50	-0.49^7
OLCOTT - 1	0.02	-1.21	-1.20^8
2	-0.03	-1.62	-1.65
OSHAWA	-0.07	-0.45	-0.51
PRESQU'ILE	0.18	-0.54	-0.36

HOURLY WIND SPEED AND STRESS

DATE: 5/26

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	5.14	058	-33	-21							4.46	079			
1	4.59	045	-22	-22							4.12	100			
2	4.90	025	-15	-33							5.15	090			
3	4.41	043	-21	-22							4.02	074			
4	4.70	028	-15	-29							3.47	085			
5	3.97	056	-19	-13							1.70	121			
6	3.63	076	-19	- 4							3.16	077			
7	3.60	102	-21	5							2.11	141			
8	3.64	128	-16	13							2.93	112			
9	3.79	155	- 9	21							3.14	093			
10	4.16	167	- 5	27							2.92	079			
11	5.17	185	3	42							2.75	068			
12	4.99	187	4	39							2.75	084			
13	4.51	166	- 7	31							2.44	057			
14	4.68	182	- 2	34							2.77	089			
15	4.33	176	- 1	29							2.53	095			
16	3.85	196	6	22							2.52	087			
17	2.61	186	1	11							2.83	103			
18	1.71	210	2	4							2.43	077			
19	0.95	208	1	2							3.13	088			
20	0.47	330	0	0							3.53	097			
21	0.31	133	0	0							3.60	103			
22	0.71	128	0	0							3.55	100			
23	0.58	150	0	1							3.69	093			
AVER			-7.7	5.7	9.6										

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 5/27

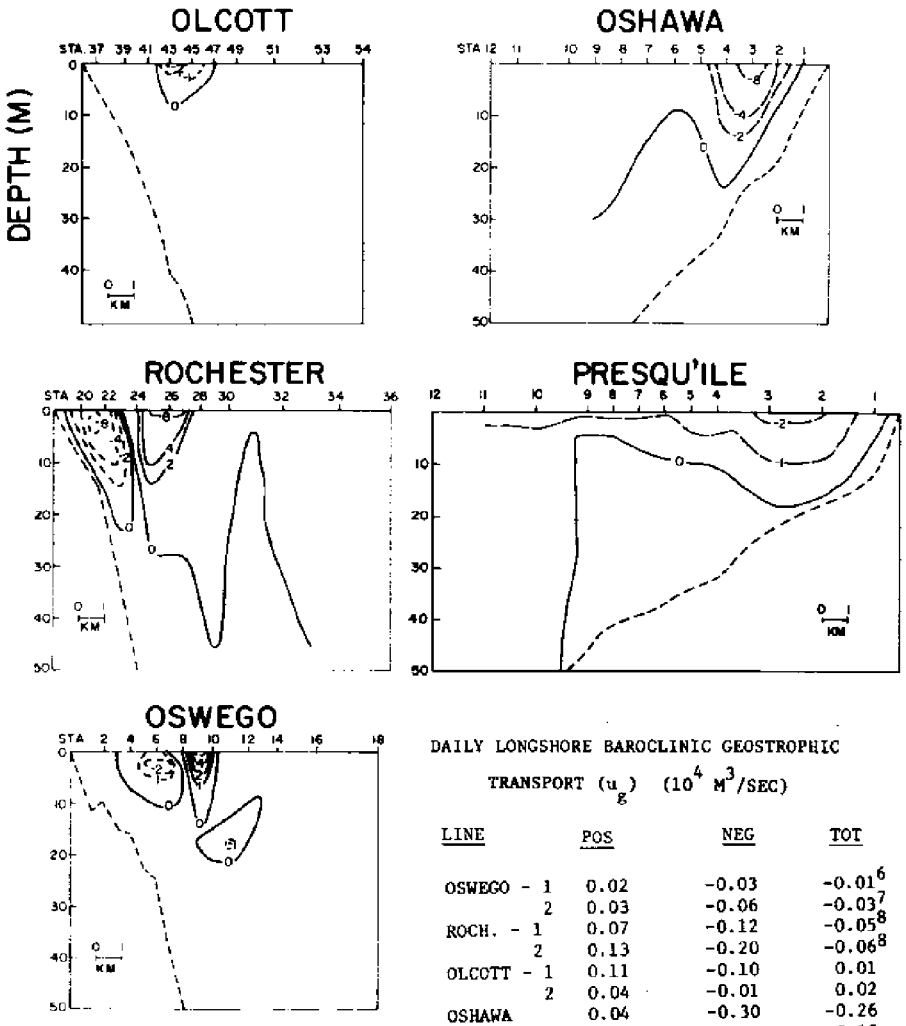


DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCH. - 1	0.0	-0.95	-0.95[8]
2	0.01	-0.35	-0.34[8]
OLCOTT - 1	0.01	-0.97	-0.96
2	0.04	-0.74	-0.70
OSHAWA	0.0	-0.85	-0.85
PRESQU'ILE	0.14	-0.74	-0.60

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 5/27

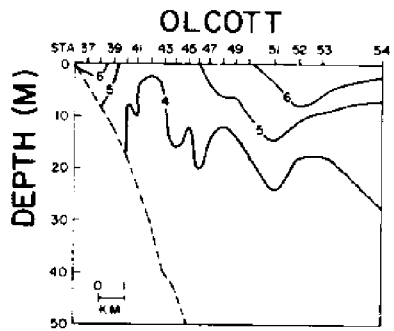


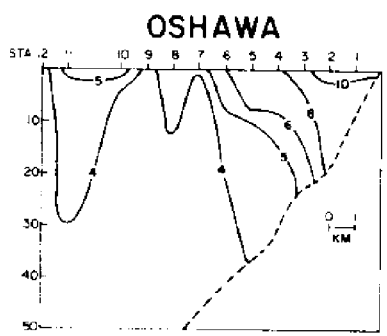
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

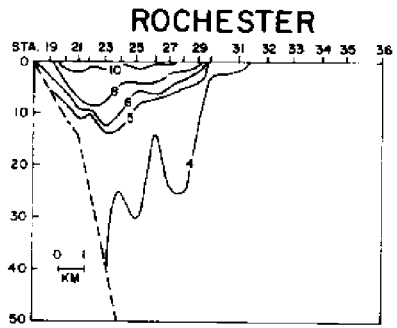
LINE	POS	NEG	TOT
OSWEGO - 1	0.02	-0.03	-0.01[6]
2	0.03	-0.06	-0.03[7]
ROCH. - 1	0.07	-0.12	-0.05[8]
2	0.13	-0.20	-0.06[8]
OLCOTT - 1	0.11	-0.10	0.01
2	0.04	-0.01	0.02
OSHAWA	0.04	-0.30	-0.26
PRESQU'ILE	0.02	-0.19	-0.17

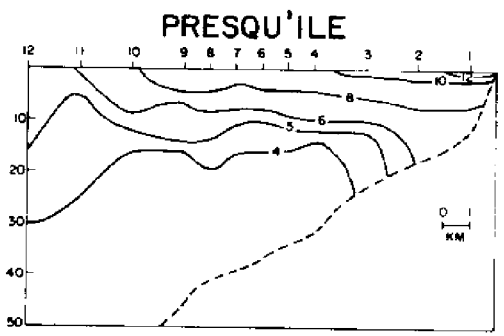
CROSS SECTIONS OF TEMPERATURE

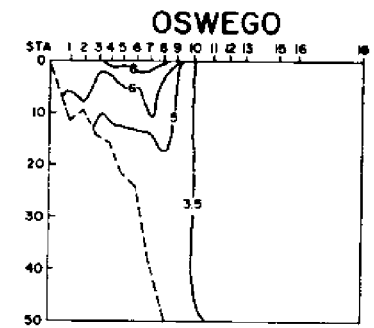
DATE: 5/27











DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_s$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCH. - 1	-0.07	-0.83	-0.90
2	-0.12	-0.15	-0.27
OLCOTT - 1	-0.10	-0.87	-0.97
2	0.0	-0.73	-0.72
OSHAWA	-0.04	-0.55	-0.59
PRESQU'ILE	0.12	-0.55	-0.42

DATE: 5/27

HOURLY WIND SPEED AND STRESS

BUOY 10 (ROCHESTER & PRESQU'ILE)

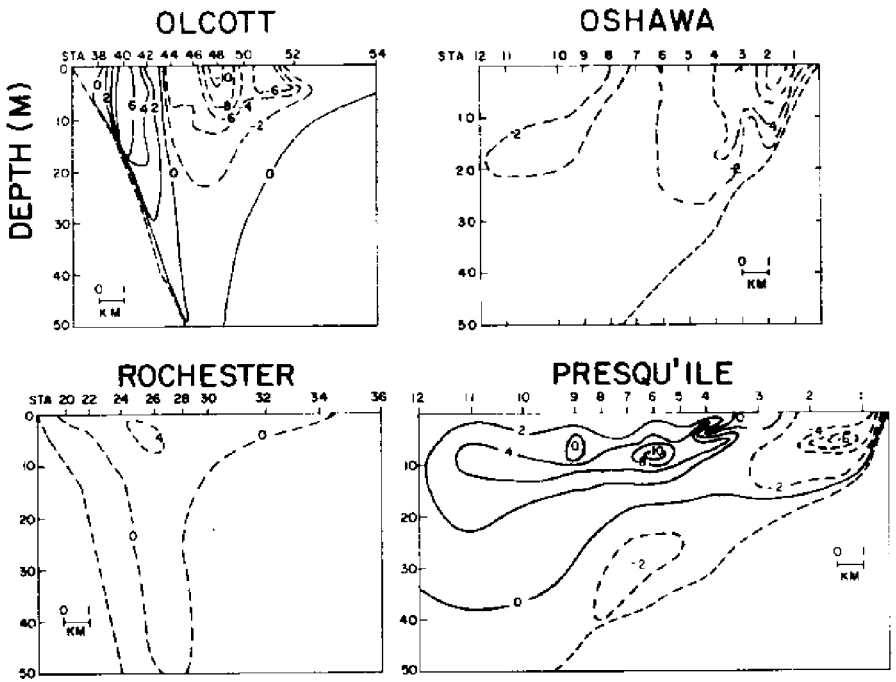
TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	3.66	097			
1	2.89	101			
2	2.79	083			
3	2.48	127			
4	3.19	142			
5	3.33	166			
6	2.22	086			
7	3.20	056			
8	2.31	068			
9	2.19	083			
10	2.21	097			
11	2.44	123			
12	2.74	153			
13	2.07	172			
14	1.60	186			
15	2.32	200			
16	2.25	205			
17	0.64	220			
18	1.44	335			
19	1.35	013			
20	2.89	031			
21	2.72	057			
22	2.33	052			
23	1.56	054			

BUOY 5 (OLCOTT & OSHAWA)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	0.76	111	0	0	
1	1.97	165	- 1	6	
2	2.06	155	- 2	6	
3	3.11	165	- 3	14	
4	2.95	172	- 1	13	
5	2.70	182	0	11	
6	2.56	207	5	9	
7	2.72	220	7	9	
8	2.13	198	3	7	
9	1.98	186	1	6	
10	1.67	202	2	4	
11	3.02	198	5	13	
12	2.76	184	1	12	
13	3.31	204	7	16	
14	3.49	215	11	15	
15	3.86	233	18	14	
16	3.55	236	16	11	
17	2.93	250	12	5	
18	3.35	246	16	7	
19	2.93	254	13	4	
20	2.68	275	11	0	
21	2.45	299	8	- 4	
22	2.12	302	6	- 3	
23	2.40	310	7	- 5	
AVER			5.9	7.1	9.2

BUOY 11 (OSWEGO)

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 5/28



OSWEGO

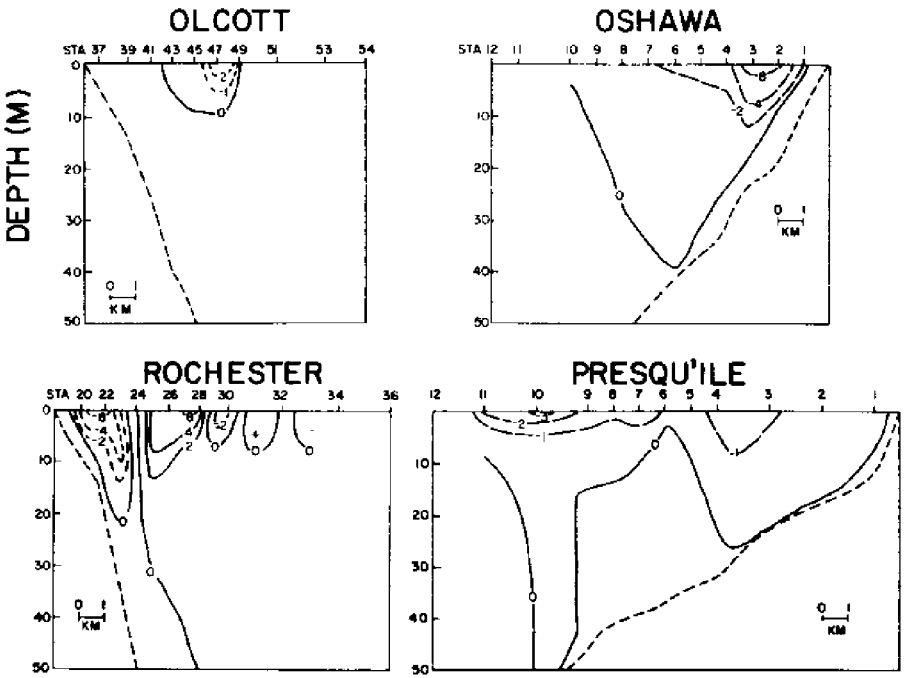
no data

DAILY LONGSHORE VELOCITY TRANSPORT (u)

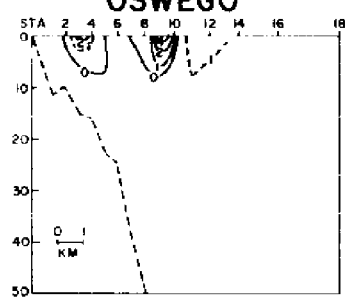
(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCH. - 1	0.0	-0.22	-0.21
2	0.01	0.0	0.0
OLCOTT - 1	0.21	-0.46	-0.25
2	0.18	-0.22	-0.04
OSHAWA	0.08	-0.58	-0.50
PRESQU'ILE	0.81	-0.39	0.41

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 5/28



OSWEGO

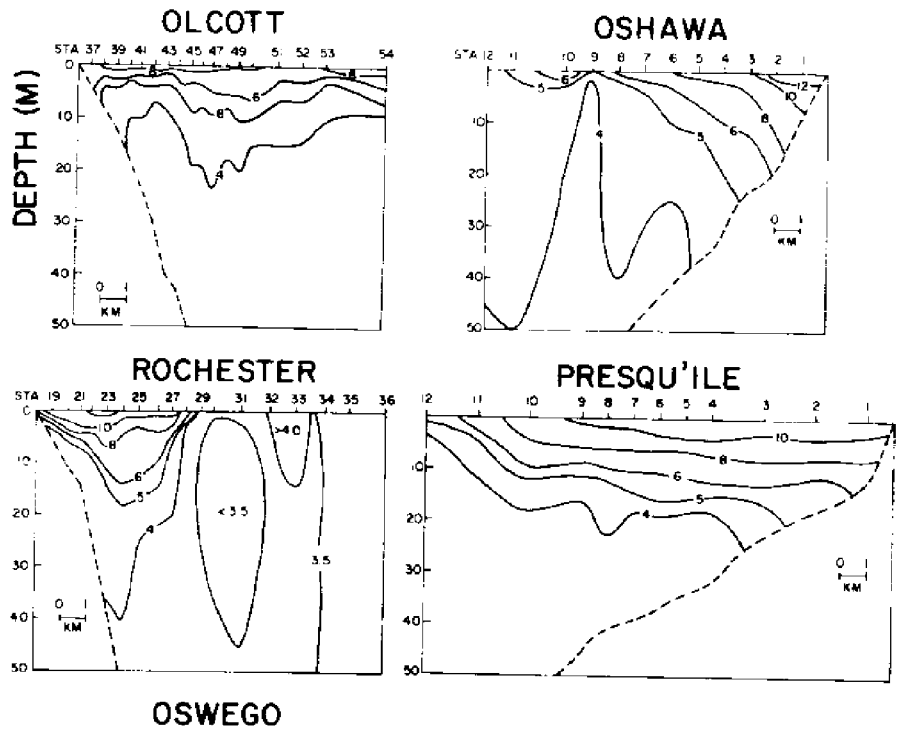


DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	0.04	-0.05	-0.01
2	0.02	-0.07	-0.05
ROCH. - 1	0.09	-0.17	-0.08
2	0.0	-0.04	-0.04
OLCOTT - 1	0.02	-0.02	0.0
2	0.01	-0.02	-0.01
OSHAWA	0.0	-0.31	-0.31
PRESQU'ILE	0.02	-0.17	-0.15

CROSS SECTIONS OF TEMPERATURE

DATE: 5/28



no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCH. - 1	-0.09	-0.05	-0.14
2	0.01	0.04	0.04
OLCOTT - 1	0.19	-0.44	-0.25
2	0.17	-0.20	-0.04
OSHAWA	0.08	-0.27	-0.19
PRESQU'ILE	0.79	-0.22	0.56

HOURLY WIND SPEED AND STRESS

DATE: 5/28

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	1.33	271	3	0	
1	1.23	230	2	3	
2	2.89	181	0	13	
3	2.48	176	0	9	
4	2.69	203	4	10	
5	3.11	219	10	12	
6	3.75	225	15	15	
7	2.21	262	9	2	
8	1.90	266	6	0	
9	1.23	161	0	3	
10	2.36	158	-2	8	
11	2.33	178	0	9	
12	1.68	200	2	5	
13	0.99	185	0	2	
14	1.65	184	0	4	
15	2.26	202	3	8	
16	2.81	200	4	12	
17	2.73	206	5	11	
18	3.05	223	10	11	
19	2.62	283	11	-1	
20	2.07	281	6	0	
21	1.45	249	3	1	
22	1.78	214	3	5	
23	3.42	178	0	18	
AVER			3.9	6.7	7.7

BUOY 10 (ROCHESTER & PRESQU'ILE)

WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R

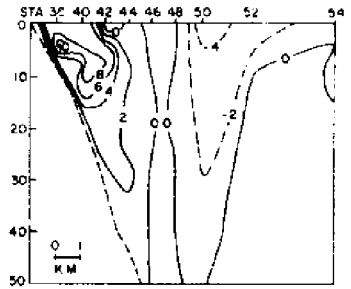
BUOY 5 (OLCOTT & OSHAWA)

WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
1.86	115			
2.27	157			
3.18	162			
3.39	163			
2.81	170			
2.72	151			
1.68	065			
2.89	052			
2.26	054			
2.72	053			
2.00	096			
2.14	127			
2.34	169			
2.49	207			
1.80	240			
1.75	283			
1.25	319			
1.55	350			
1.66	030			
1.34	020			
1.76	005			
1.10	095			
3.11	158			
3.29	170			

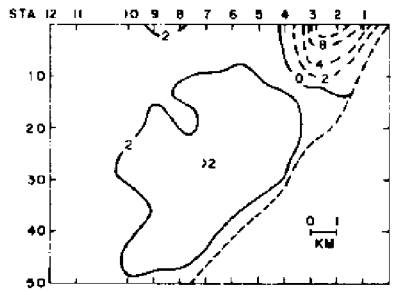
CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY

DATE: 5/29

OLCOTT



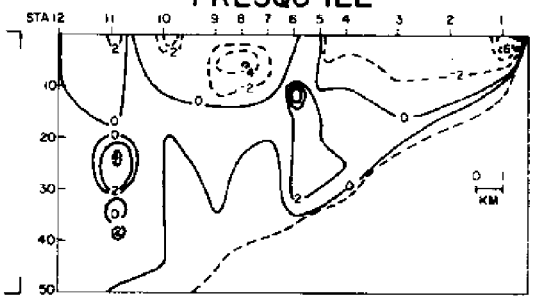
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE VELOCITY TRANSPORT (u)

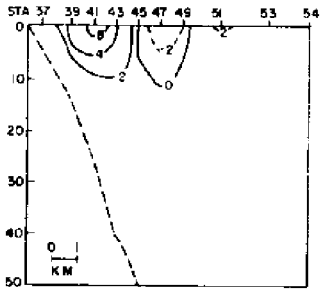
(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT - 1	0.37	-0.20	0.17
2	0.52	-0.11	0.41
OSHAWA	0.40	-0.23	0.17
PRESQU'ILE	0.33	-0.43	-0.10

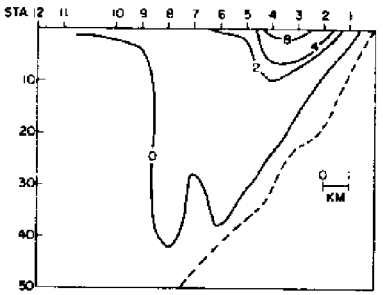
CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY

DATE: 5/29

OLCOTT



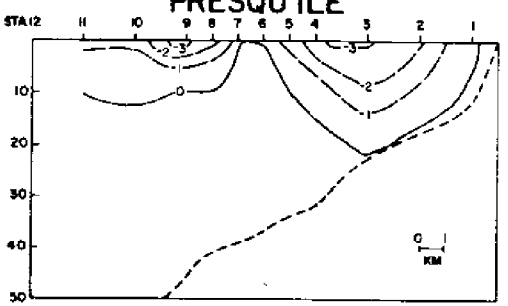
OSHAWA



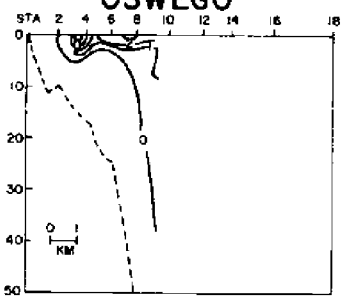
ROCHESTER

no data

PRESQU'ILE



OSWEGO



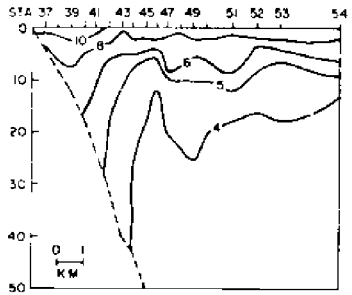
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.05	-0.0	0.04^4
ROCHESTER	---	---	---
OLCOTT - 1	0.15	-0.03	0.13
2	0.14	-0.02	0.12
OSHAWA	0.02	-0.28	-0.26
PRESQU'ILE	0.02	-0.28	-0.27

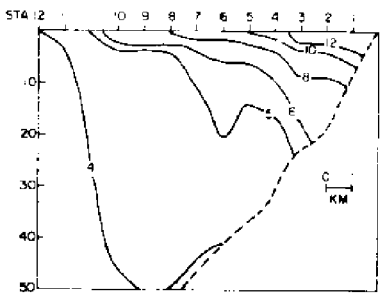
CROSS SECTIONS OF TEMPERATURE

DATE: 5/29

OLCOTT



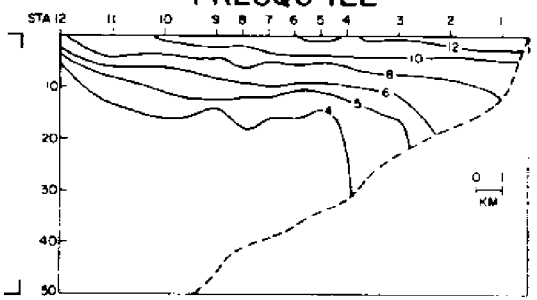
OSHAWA



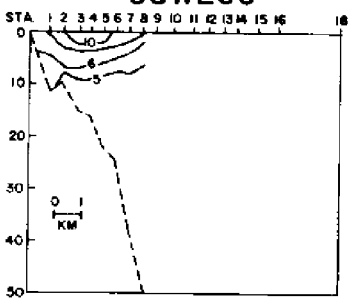
ROCHESTER

no data

PRESQU'ILE



OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT - 1	0.22	-0.17	0.04
2	0.38	-0.09	0.29
OSHAWA	0.38	0.05	0.43
PRESQU'ILE	0.31	-0.15	0.17

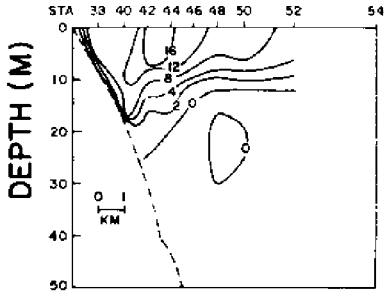
DATE: 5/29

HOURLY WIND SPEED AND STRESS

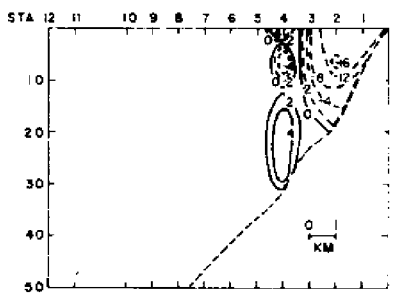
TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	2.93	193	3	13							3.39	169			
1	2.87	217	8	10							4.13	165			
2	2.29	233	7	5							4.32	162			
3	1.66	258	5	1							3.85	160			
4	2.60	218	6	8							0.57	020			
5	2.23	220	5	6							3.00	049			
6	1.79	251	5	2							2.88	073			
7	1.41	286	3	0							2.13	088			
8	1.93	225	4	4							2.41	154			
9	0.85	252	2	0							1.70	151			
10	1.92	192	2	7							1.60	163			
11	1.22	217	1	2							2.22	191			
12	0.50	175	0	1							2.26	249			
13	2.53	183	1	10							1.53	242			
14	2.44	195	2	9							0.74	109			
15	2.39	209	4	8							1.72	109			
16	3.00	199	4	13							2.62	112			
17	2.47	191	2	9							2.60	115			
18	1.91	176	0	6							3.09	118			
19	0.10	152	0	0							3.02	128			
20	0.00	90	0	0							3.17	134			
21	0.00	90	0	0							2.90	141			
22	0.00	90	0	0							3.56	141			
23	0.00	90	0	0							4.22	146			
AVER			2.7	4.8	5.5										

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 5/30

OLCOTT



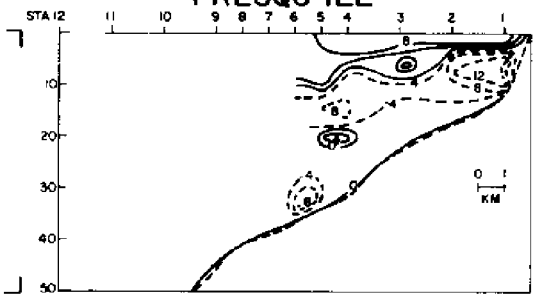
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

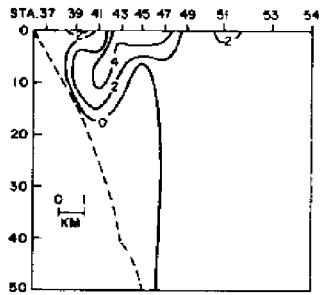
DAILY LONGSHORE VELOCITY TRANSPORT (v)

(10^4 M^3/SEC)

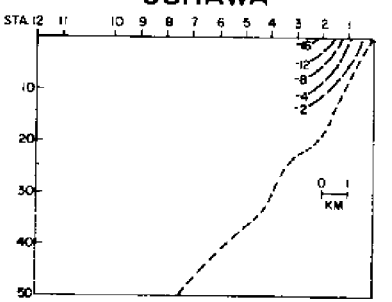
LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	0.89	-0.01	0.88^8
OSHAWA	0.10	-0.35	-0.25^4
PRESQU'ILE	0.57	-0.86	-0.29^6

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 5/30

OLCOTT



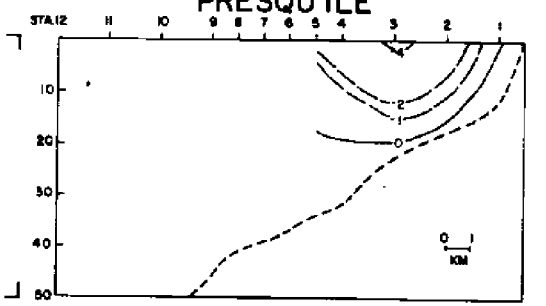
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

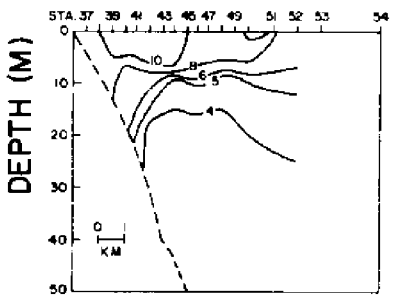
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (v_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	0.16	-0.01	0.15^8
OSHAWA	0.0	-0.37	-0.37^4
PRESQU'ILE	0.0	-0.26	-0.26^6

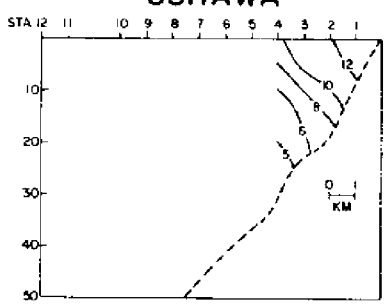
CROSS SECTIONS OF TEMPERATURE

DATE: 5/30

OLCOTT



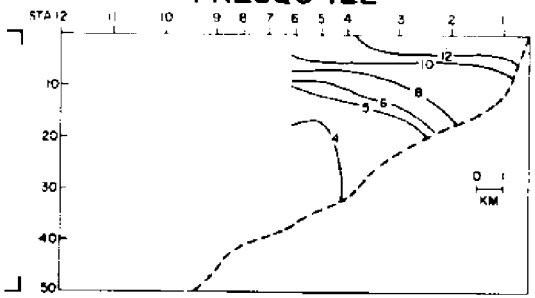
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	0.73	0.0	0.73^8
OSHAWA	0.10	0.02	0.12^4
PRESQU'ILE	0.57	-0.60	-0.02^6

HOURLY WIND SPEED AND STRESS

DATE: 5/30

BUOY 10 (ROCHESTER & PRESQU'ILE)

BUOY 5 (OLCOTT & OSHAWA)

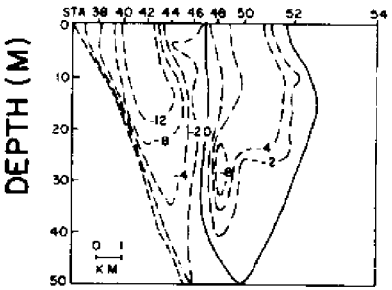
BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	1.24	160	0	3		4.24	150								
1	2.44	175	0	9		4.60	163								
2	2.38	186	1	9		4.83	167								
3	4.19	161	- 8	26		5.35	167								
4	4.52	181	0	31		5.14	167								
5	4.71	192	7	33		5.07	222								
6	5.31	198	14	41		4.22	238								
7	5.12	213	22	35		4.14	217								
8	4.43	216	18	25		4.29	216								
9	5.16	205	17	37		4.01	219								
10	5.20	198	13	40		4.24	215								
11	5.14	207	19	39		4.45	216								
12	6.48	207	31	58		5.10	212								
13	5.72	203	21	47		4.84	215								
14	4.94	196	11	37		5.03	213								
15	4.75	177	- 1	35		4.79	214	0	0						
16	4.62	171	- 4	33		4.24	242	17	14						
17	4.52	163	- 8	30		3.41	231	6	6						
18	5.26	189	6	43		3.67	209	3	9						
19	3.18	196	7	18		2.85	177	0	1						
20	2.59	145	- 6	9		2.45	167	0	2						
21	2.94	117	-11	6		2.88	124	- 2	0						
22	3.34	116	-15	8		2.92	134	-11	19						
23	2.57	338	11	-18		2.85	139	-14	9						
AVER			6.1	26.4	27.1										

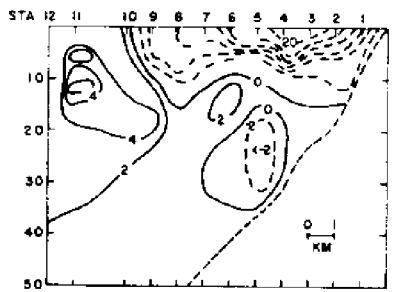
CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY

DATE: 5/31

OLCOTT



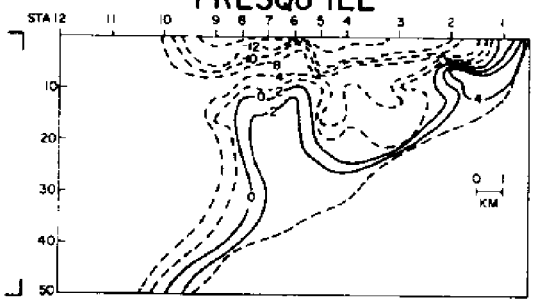
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE VELOCITY TRANSPORT (u)

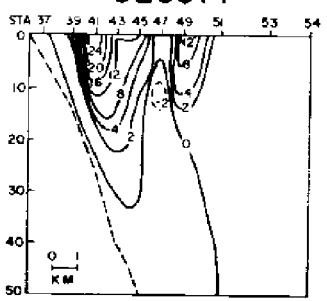
(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT - 1	0.85	-0.41	0.44^8
2	1.31	-0.12	1.19^8
OSHAWA	0.55	-0.70	-0.15
PRESQU'ILE	0.21	-1.30	-1.09^9

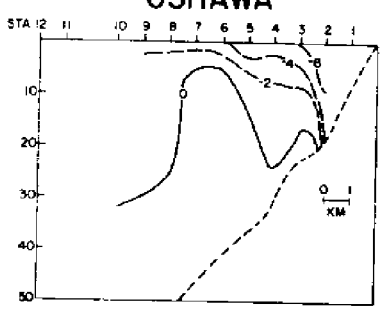
CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY

DATE: 5/31

OLCOTT



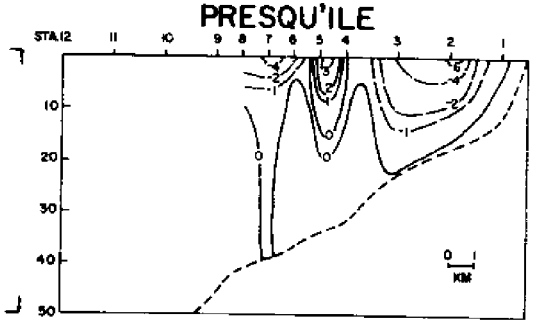
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

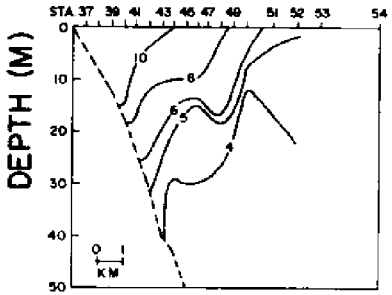
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT - 1	0.64	-0.01	0.63^8
2	0.48	-0.01	0.47^8
OSHAWA	0.04	-0.45	-0.41
PRESQU'ILE	0.04	-0.34	-0.30^9

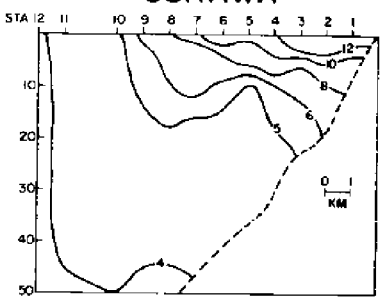
CROSS SECTIONS OF TEMPERATURE

DATE: 5/31

OLCOTT



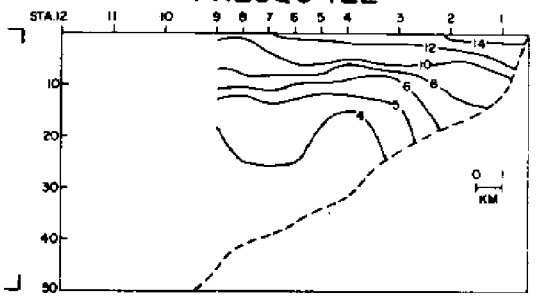
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT - 1	0.21	-0.40	-0.19^8
2	0.83	-0.11	0.72^8
OSHAWA	0.51	-0.25	0.26
PRESQU'ILE	0.17	-0.96	-0.80^9

HOURLY WIND SPEED AND STRESS

DATE: 5/31

BUOY 10 (ROCHESTER & PRESQU'ILE)

GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	2.42	267	10	1	
1	1.85	269	6	0	
2	2.03	322	5	-5	
3	3.30	320	11	-12	
4	2.45	331	5	-8	
5	1.70	275	6	0	
6	2.16	274	9	0	
7	1.64	274	5	0	

BUOY 11 (OSWEGO)

GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	2.28	273	10	0	
1	2.93	228	11	11	
2	4.56	202	12	30	
3	5.93	183	3	55	
4	5.47	181	1	48	
5	4.64	176	-1	35	
6	4.10	190	5	26	
7	3.23	202	6	16	
8	3.00	250	14	5	
9	3.92	274	24	0	
10	3.89	293	22	-8	
11	3.66	270	22	0	
12	2.98	271	14	0	
13	3.38	278	18	-2	
14	3.23	280	16	-1	
15	2.81	248	12	5	
16	1.95	232	5	4	
17	2.74	254	12	4	
18	1.48	257	5	1	
19	0.38	209	0	1	
20	0.16	194	0	0	
21	1.78	201	2	5	
22	1.87	223	6	6	
23	4.32	264	31	3	
AVER			10.4	10.2	14.6

BUOY 5 (OLCOTT & OSHAWA)

GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	4.17	131	-15	10	
1	3.32	166	2	4	
2	3.42	210	10	12	
3	3.23	213	15	16	
4	2.65	214	20	13	
5	3.59	238	23	8	
6	3.81	267	20	8	
7	3.96	274	19	7	
8	4.10	261	26	-14	
9	3.26	264	8	-9	
10	2.87	268	4	-11	
11	3.00	252	1	0	
12	2.31	288	7	1	
13	1.88	283	8	0	
14	2.12	252	16	-3	
15	2.36	289	9	-4	
16	0.26	258	10	1	
17	1.79	271	7	-1	
18	1.75	254	13	-9	
19	3.11	302	7	-6	
20	2.19	284	7	4	
21	1.85	261	13	8	
22	3.72	247	12	3	
23	3.86	259	13	-3	
AVER			11	1	11

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY

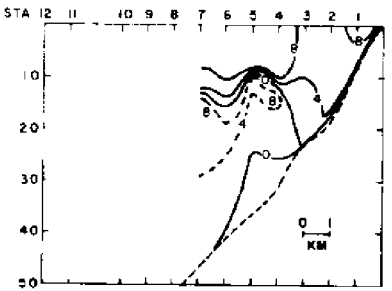
DATE: 6/1

OLCOTT

DEPTH (M)

no data

OSHAWA



ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.60	-0.30	0.31^7
PRESQU'ILE	---	---	---

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY

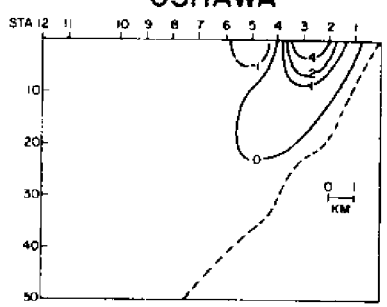
DATE: 6/1

OLCOTT

DEPTH (M)

no data

OSHAWA



ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.10	-0.03	0.07^7
PRESQU'ILE	---	---	---

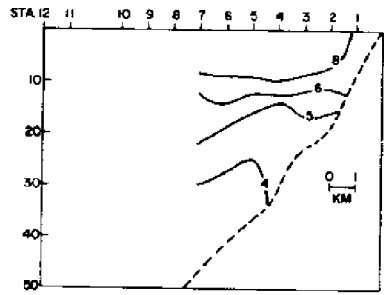
CROSS SECTIONS OF TEMPERATURE

DATE: 6/1

OLCOTT

no data

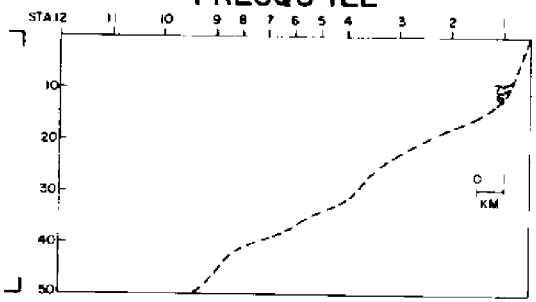
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.50	-0.27	0.24^7
PRESQU'ILE	---	---	---

HOURLY WIND SPEED AND STRESS

DATE: 6/1

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	4.39	271	30	0	
1	3.96	270	25	0	
2	4.01	241	22	12	
3	3.71	263	22	3	
4	4.25	256	28	7	
5	5.66	267	52	2	
6	5.96	284	56	-13	
7	6.03	284	56	-13	
8	5.29	280	46	- 7	
9	6.47	274	66	- 3	
10	6.91	283	75	-15	
11	7.46	283	90	-17	
12	7.30	286	86	-21	
13	7.57	279	91	-11	
14	7.42	273	90	- 4	
15	8.33	282	107	-21	
16	6.86	268	79	2	
17	7.21	280	87	-15	
18	6.72	284	77	-16	
19	6.70	271	71	- 1	
20	6.51	283	65	-13	
21	4.95	283	40	-10	
22	4.11	288	33	-10	
23	5.22	251	41	14	
AVER			59.8	- 6.3	60.1

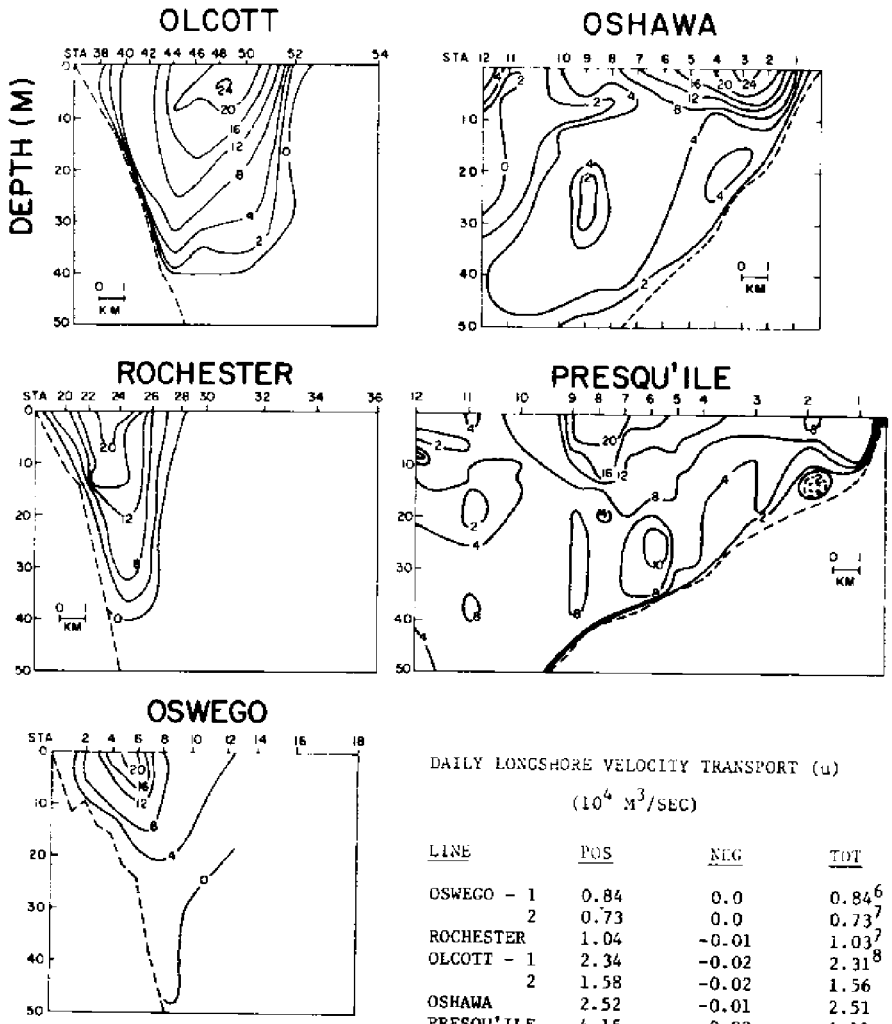
BUOY 10 (ROCHESTER & PRESQU'ILE)

WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
3.58	269	23	0	
4.79	254	36	10	
5.30	270	44	0	
5.18	274	45	- 4	
6.13	280	58	-10	
4.73	292	38	-15	
4.77	264	36	3	
5.08	259	43	8	
5.91	270	58	0	
6.87	270	75	0	
6.34	262	65	9	
7.61	287	92	-27	
7.56	271	98	0	
7.03	280	79	-13	
6.67	266	76	5	
7.92	281	97	-18	
6.16	265	69	6	
6.87	263	74	9	
6.49	258	70	15	
7.05	273	79	- 3	
5.24	259	48	11	
5.53	241	43	24	
5.68	240	46	27	
5.47	259	47	9	
		60	2	60

BUOY 5 (OLCOTT & OSHAWA)

WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
4.19	295	3	- 4	
4.41	322	2	- 1	
3.36	342	11	2	
4.02	287	20	-12	
4.67	291	15	-28	
3.86	300	13	- 5	
4.58	293	12	- 5	
4.63	282	13	7	
4.40	269	22	- 1	
5.71	274	31	-10	
6.27	274	33	- 9	
6.43	280	44	- 2	
5.65	273	47	- 4	
4.51	241	44	- 5	
5.72	254	37	- 2	
6.56	238	42	4	
6.44	257	43	- 6	
6.10	251	31	-10	
7.10	250	46	- 7	
6.71	267	49	- 2	
6.36	247	30	1	
5.28	240	14	3	
5.29	236	22	6	
4.70	244	23	11	
		27	- 4	27

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 6/2

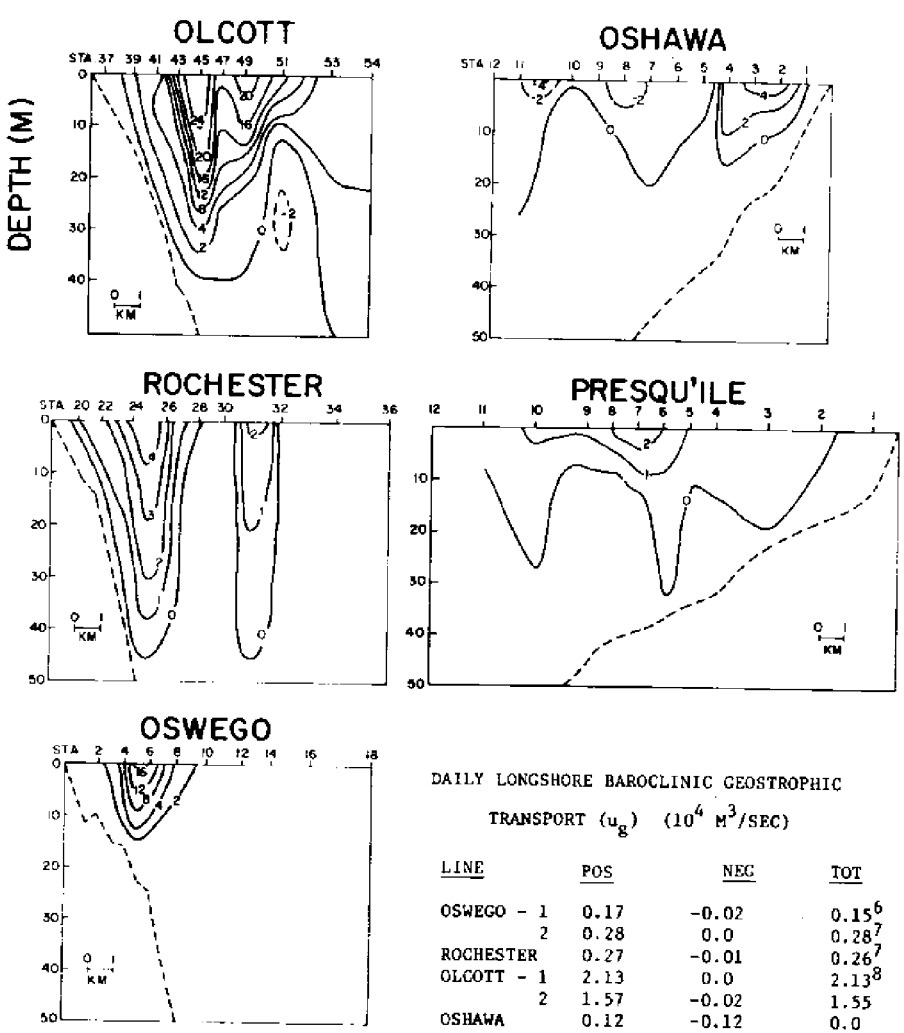


DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	0.84	0.0	0.84^6
2	0.73	0.0	0.73^7
ROCHESTER	1.04	-0.01	1.03^7
OLCOTT - 1	2.34	-0.02	2.31^8
2	1.58	-0.02	1.56
OSHAWA	2.52	-0.01	2.51
PRESQU'ILE	4.15	-0.03	4.11

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 6/2



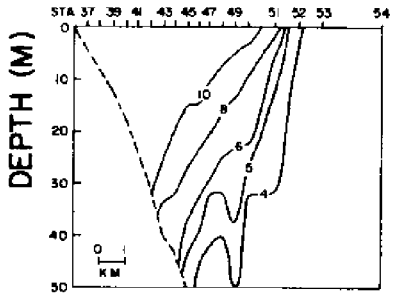
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	0.17	-0.02	0.15^6
2	0.28	0.0	0.28^7
ROCHESTER	0.27	-0.01	0.26^7
OLCOTT - 1	2.13	0.0	2.13^8
2	1.57	-0.02	1.55
OSHAWA	0.12	-0.12	0.0
PRESQU'ILE	0.11	-0.09	0.02

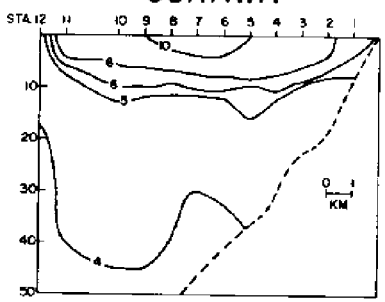
CROSS SECTIONS OF TEMPERATURE

DATE: 6/2

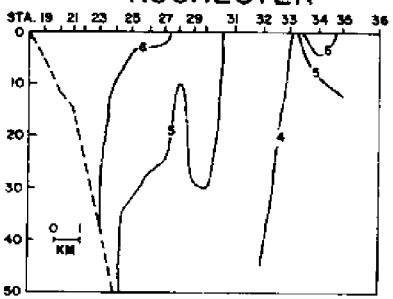
OLCOTT



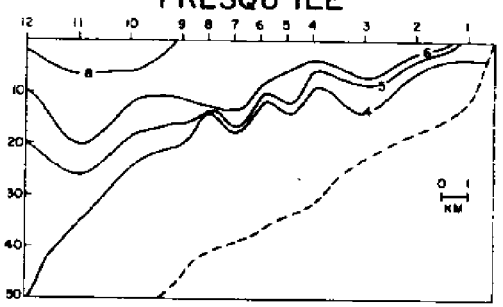
OSHAWA



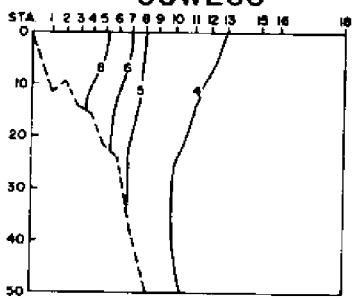
ROCHESTER



PRESQU'ILE



OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

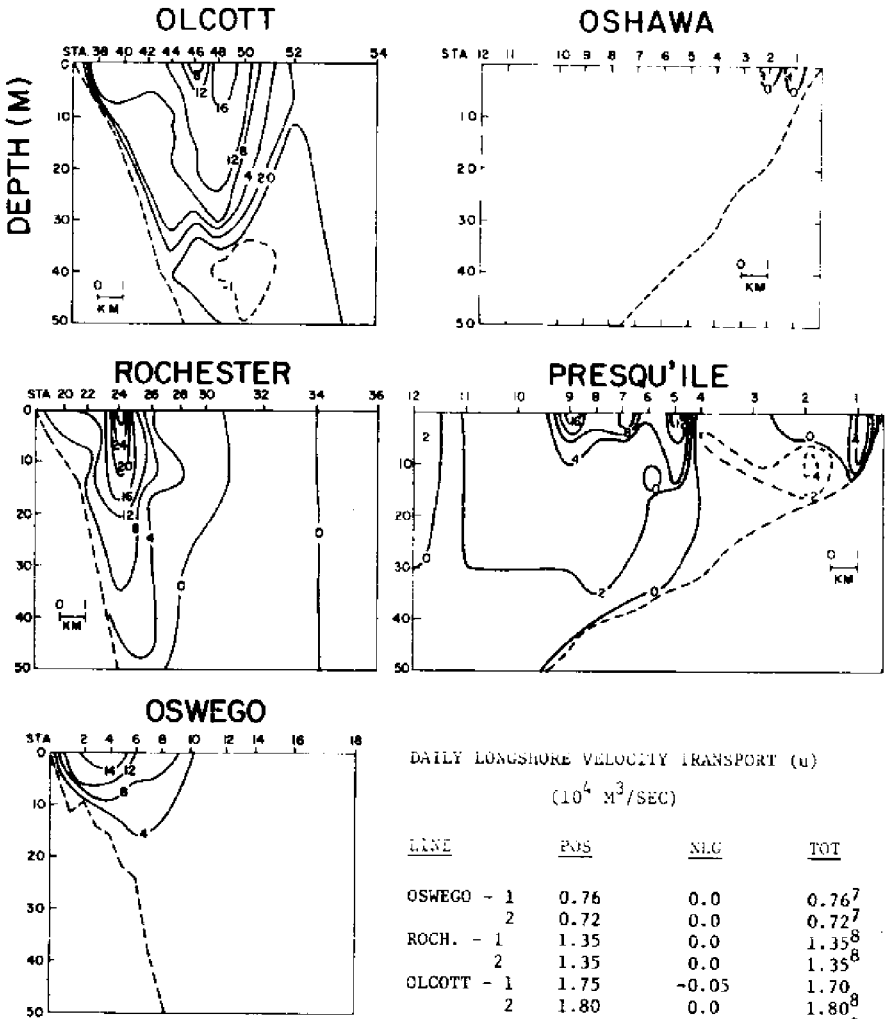
LINE	POS	NEG	TOT
OSWEGO - 1	0.70	0.0	0.70^6
2	0.45	0.0	0.45^7
ROCHESTER	0.77	0.0	0.78^7
OLCOTT - 1	0.21	-0.02	0.18^8
2	0.01	0.0	0.01
OSHAWA	2.40	0.11	2.52
PRESQU'ILE	4.04	0.06	4.10

DATE: 6/2

HOURLY WIND SPEED AND STRESS

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	BUOY 11 (OSWEGO) STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	BUOY 10 (ROCHESTER & PRESQU'ILE) STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	BUOY 5 (OLCOTT & OSHAWA) STRESS(10^{-1}DYNE/CM^2) E	N	R
0	5.31	252	42	14		6.21	268	62	2		3.31	229	14	13	
1	5.00	263	39	5		5.37	265	46	4		2.71	242	6	12	
2	5.71	265	52	5		4.51	260	32	5		2.26	236	15	13	
3	5.22	260	43	8		5.02	284	40	- 9		2.87	227	12	15	
4	5.28	260	44	7		3.55	272	21	0		3.13	248	11	15	
5	4.73	254	34	10		3.35	263	17	2		4.04	229	- 1	8	
6	4.89	287	37	-12		3.15	281	16	- 2		4.11	178	- 1	10	
7	5.92	268	56	2		3.89	259	23	5		3.79	214	11	7	
8	5.96	274	55	- 3		4.12	235	22	15		3.16	242	33	3	
9	5.20	279	43	- 6		3.71	241	19	10		2.12	266	23	0	
10	4.13	283	27	- 5		2.90	265	14	2		2.49	299	4	1	
11	2.64	244	10	5		2.53	267	11	1		2.40	241	16	13	
12	3.29	259	18	3		3.22	274	18	- 1		4.63	254	9	9	
13	5.15	270	43	0		4.24	278	30	- 3		2.71	283	15	8	
14	5.42	262	48	6		3.99	287	24	- 6		2.42	280	14	0	
15	4.96	271	39	0		3.66	290	20	- 6		2.79	293	17	3	
16	4.19	267	28	1		3.92	280	24	- 3		3.06	271	12	- 4	
17	5.65	266	52	4		4.34	285	32	- 7		3.13	294	9	-14	
18	3.87	296	21	- 9		4.92	285	37	- 9		3.93	274	11	- 9	
19	2.02	272	7	0		3.45	323	12	-14		3.83	268	2	- 7	
20	2.92	235	12	8		3.15	285	16	- 3		3.65	255	4	0	
21	3.09	216	9	12		3.54	278	21	- 1		4.08	251	8	2	
22	4.81	215	21	30		4.21	249	27	10		4.58	253	14	5	
23	4.49	210	17	28		3.78	250	23	9		4.10	262	13	6	
AVER			33.2	4.7	33.5			25	- 1	25			11	4	12

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 6/3

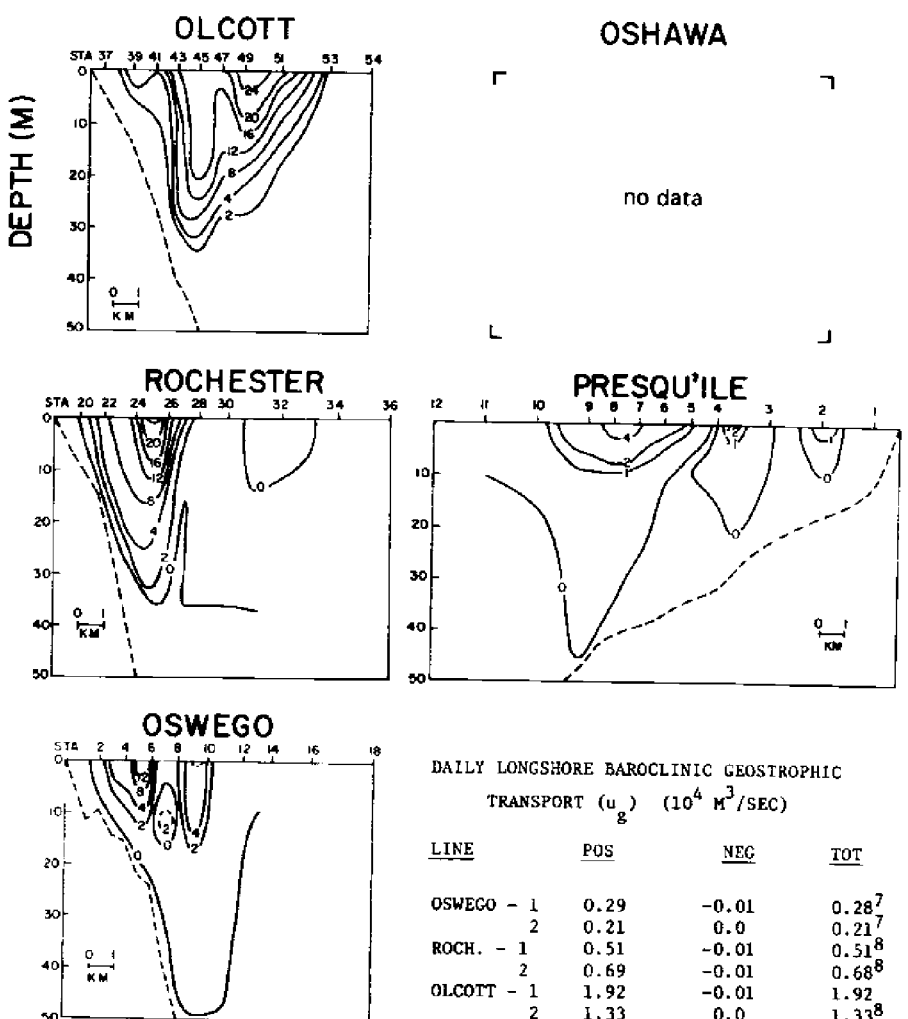


DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	0.76	0.0	0.76[7]
2	0.72	0.0	0.72[7]
ROCH. - 1	1.35	0.0	1.35[8]
2	1.35	0.0	1.35[8]
OLCOTT - 1	1.75	-0.05	1.70
2	1.80	0.0	1.80[8]
OSHAWA	0.0	0.0	0.0 [2]
PRESQU'ILE	1.10	-0.28	0.82

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 6/3

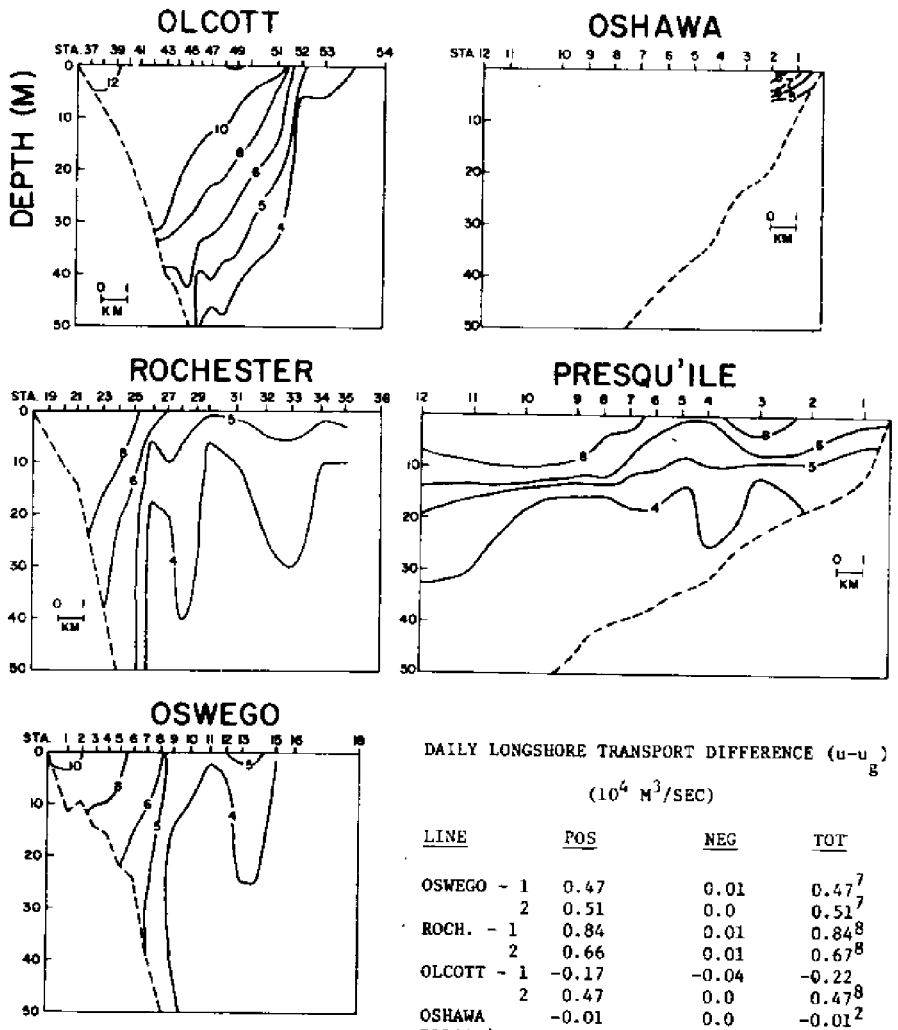


DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	0.29	-0.01	0.28[7]
2	0.21	0.0	0.21[7]
ROCH. - 1	0.51	-0.01	0.51[8]
2	0.69	-0.01	0.68[8]
OLCOTT - 1	1.92	-0.01	1.92
2	1.33	0.0	1.33[8]
OSHAWA	0.01	0.0	0.01[2]
PRESQU'ILE	0.16	-0.05	0.11

CROSS SECTIONS OF TEMPERATURE

DATE: 6/3



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	0.47	0.01	0.47^7
2	0.51	0.0	0.51^7
ROCH. - 1	0.84	0.01	0.84^8
2	0.66	0.01	0.67^8
OLCOTT - 1	-0.17	-0.04	-0.22
2	0.47	0.0	0.47^8
OSHAWA	-0.01	0.0	-0.01^2
PRESQU'ILE	0.94	-0.23	0.71

HOURLY WIND SPEED AND STRESS

DATE: 6/3

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	4.24	244	25	12	
1	3.64	229	16	14	
2	3.73	231	18	14	
3	3.58	210	11	18	
4	3.78	252	22	8	
5	2.20	271	7	0	
6	1.38	275	3	0	
7	2.02	201	2	7	
8	2.58	188	1	10	
9	2.46	178	0	9	
10	2.89	164	- 2	13	
11	2.87	192	3	13	
12	3.69	189	3	21	
13	4.39	187	4	29	
14	4.00	190	4	24	
15	3.55	172	- 1	19	
16	3.54	176	0	19	
17	3.31	154	- 7	15	
18	3.69	157	- 7	19	
19	2.81	161	- 3	11	
20	1.74	192	1	5	
21	2.64	179	0	11	
22	3.22	188	2	16	
23	3.07	225	10	10	
AVER			4.7	13.2	14.0

BUOY 10 (ROCHESTER & PRESQU'ILE)

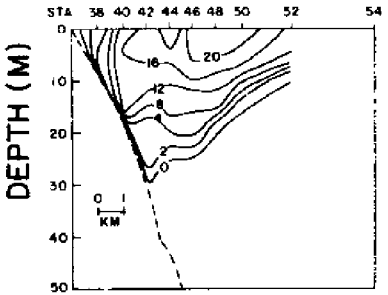
WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
3.54	253	19	6	
3.69	251	20	7	
2.77	336	5	-11	
0.59	003	0	0	
0.77	338	0	0	
2.16	343	2	- 6	
0.40	209	0	0	
1.35	090	- 2	0	
2.37	108	- 8	3	
2.24	118	- 6	4	
1.80	125	- 3	3	
2.60	149	- 4	9	
3.40	141	-10	14	
2.93	147	- 6	11	
3.38	139	-11	13	
3.05	133	-10	10	
3.06	147	- 7	12	
2.91	140	- 7	10	
3.30	141	-10	13	
3.14	150	- 7	13	
3.04	159	- 4	13	
3.26	160	- 5	15	
3.39	195	- 4	18	
1.55	188	0	6	7
		- 3	7	7

BUOY 5 (OLCOTT & OSHAWA)

WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
4.10	247	6	12	
3.70	246	9	21	
4.45	227	12	21	
4.78	240	10	19	
4.04	235	6	16	
3.14	230	9	16	
0.90	331	9	16	
1.29	025	11	4	
1.29	070	4	0	
1.93	125	- 8	- 6	
2.29	134	-13	2	
2.97	123	-16	5	
3.25	119	-10	11	
3.08	099	13	6	
3.10	136	14	8	
1.78	144	20	10	
1.26	070	4	- 8	
2.22	081	0	- 1	
2.27	109	13	9	
2.26	122	30	23	
3.41	144	27	29	
2.14	178	45	29	
4.89	246	45	16	
3.40	218	33	21	
		11	12	16

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 6/4

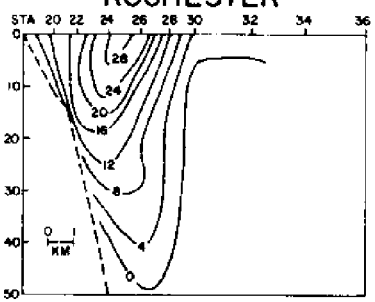
OLCOTT



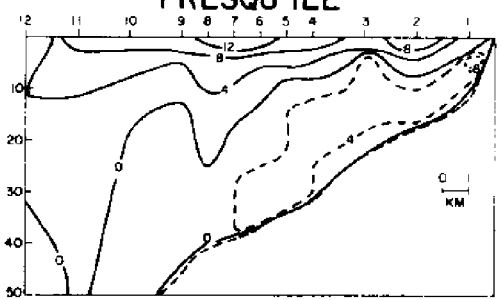
OSHAWA

no data

ROCHESTER



PRESQU'ILE



OSWEGO

no data

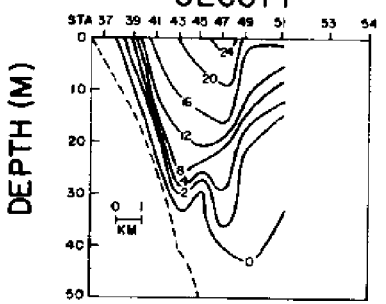
DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.20	0.0	0.20^5
ROCHESTER	2.42	0.0	2.42^6
OLCOTT	1.61	0.0	1.61^8
OSHAWA	---	---	---
PRESQU'ILE	1.02	-0.82	0.20

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 6/4

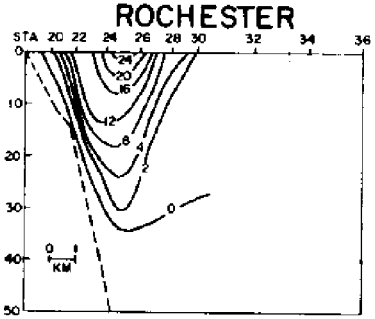
OLCOTT



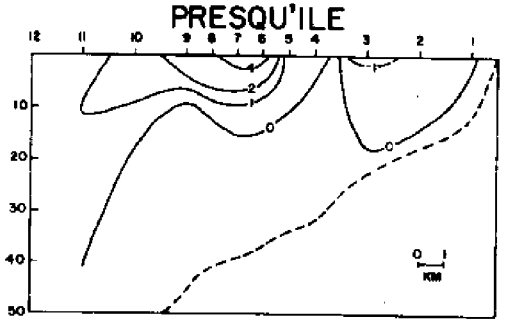
OSHAWA

no data

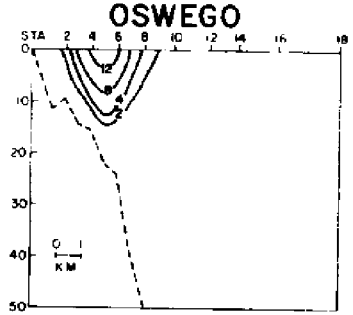
ROCHESTER



PRESQU'ILE



OSWEGO

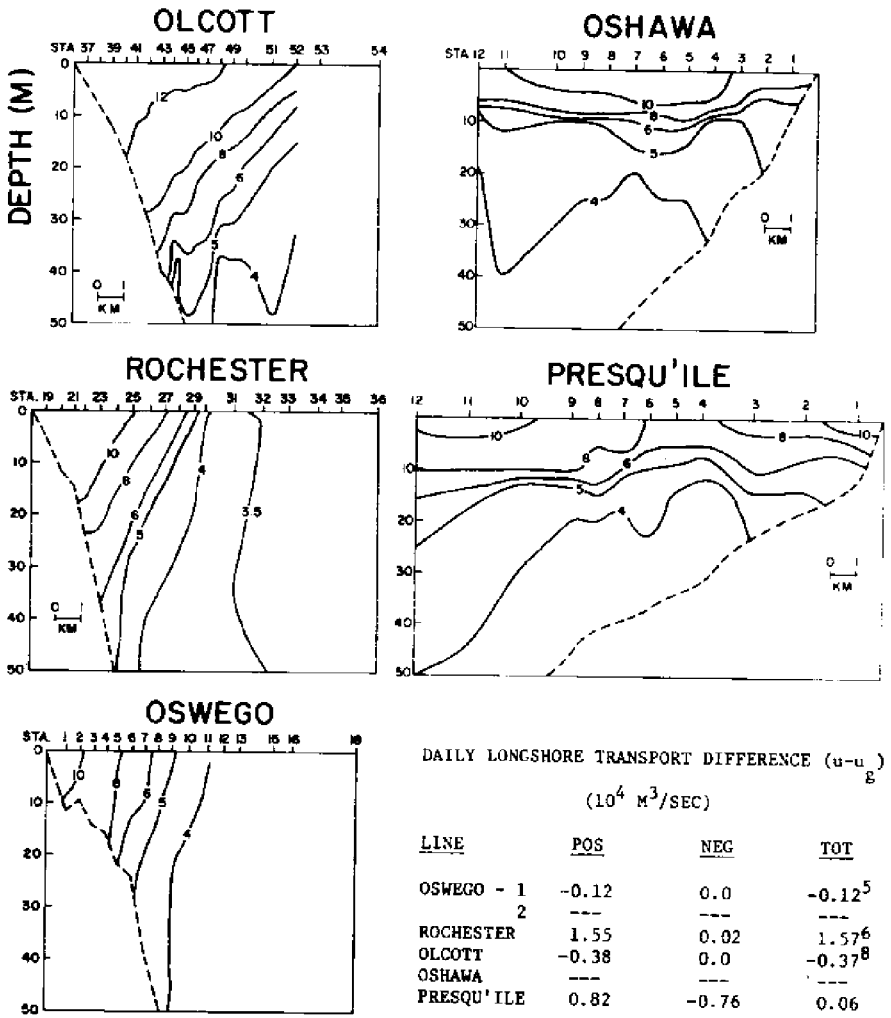


DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	0.31	0.0	0.31^5
2	0.27	0.0	0.27^4
ROCHESTER	0.87	-0.02	0.85^6
OLCOTT	1.99	0.0	1.98^8
OSHAWA	---	---	---
PRESQU'ILE	0.20	-0.06	0.14

CROSS SECTIONS OF TEMPERATURE

DATE: 6/4



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	-0.12	0.0	-0.12^5
2	---	---	---
ROCHESTER	1.55	0.02	1.57^6
OLCOTT	-0.38	0.0	-0.37^8
OSHAWA	---	---	---
PRESQU'ILE	0.82	-0.76	0.06

HOURLY WIND SPEED AND STRESS

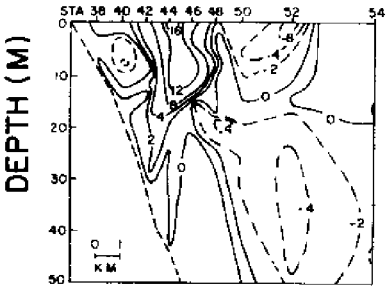
DATE: 6/4

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	2.83	242	11	6		1.46	005	0	- 3		2.00	303	28	22	
1	3.61	245	18	9		2.06	294	6	- 2		3.14	080	23	21	
2	3.84	236	19	13		3.78	254	22	6		1.59	142	9	17	
3	4.65	224	24	25		4.48	253	30	9		2.60	153	4	10	
4	2.96	217	10	11		3.46	243	12	9		3.08	180	13	10	
5	2.72	166	- 2	12		4.95	234	32	23		2.76	186	9	20	
6	4.24	202	11	26		4.61	217	20	26		4.00	234	12	9	
7	4.96	208	17	33		2.57	202	5	14		4.36	248	6	3	
8	4.74	215	20	29		1.55	023	- 1	- 3		5.08	271	42	- 3	
9	4.27	213	16	24		1.19	322	4	- 1		10.11	308	53	-30	
10	4.34	222	20	23		5.11	271	52	- 5		3.06	208	-14	0	
11	4.96	255	39	9		3.24	220	32	26		1.18	205	19	28	
12	3.72	238	21	12		3.60	331	10	-17		4.65	296	22	- 9	
13	0.92	198	2	4		5.56	279	49	- 7		4.21	291	16	-28	
14	1.95	254	12	4		3.75	279	23	- 3		3.77	284	19	- 1	
15	2.90	261	13	2		3.33	270	19	0		1.81	255	18	3	
16	3.89	275	24	- 1		3.95	260	25	4		2.58	237	18	4	
17	2.81	256	13	3		3.44	240	16	9		4.31	279	26	-14	
18	2.51	238	9	5		3.74	270	23	0		4.61	316	20	-42	
19	3.06	240	13	7		4.45	285	30	- 7		5.41	319	43	-32	
20	3.31	235	14	10		4.23	291	26	-10		6.14	318	36	-30	
21	3.35	263	18	3		3.71	311	17	-13		4.71	340	15	-14	
22	3.12	314	11	-10		3.70	008	- 3	-21		3.90	341	24	2	
23	3.72	008	- 2	-20		3.82	009	- 2	-22		4.05	288	33	2	
AVER			14.6	15.7	21.5			19	0	19			21	- 3	21

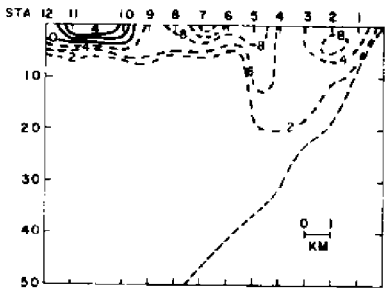
CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY

DATE: 6/5

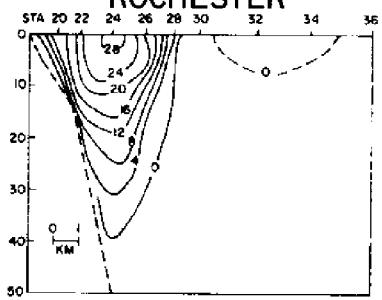
OLCOTT



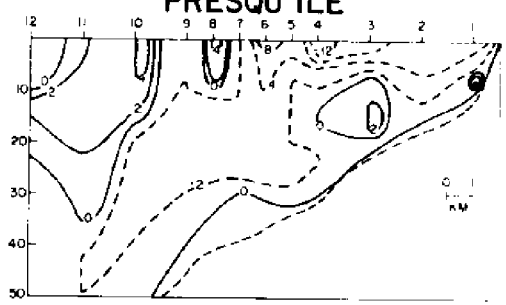
OSHAWA



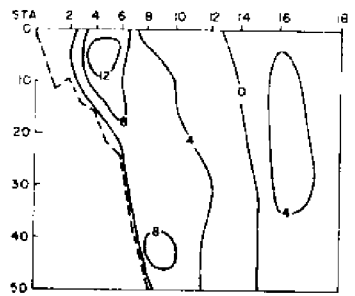
ROCHESTER



PRESQU'ILE



OSWEGO



DAILY LONGSHORE VELOCITY TRANSPORT (v)

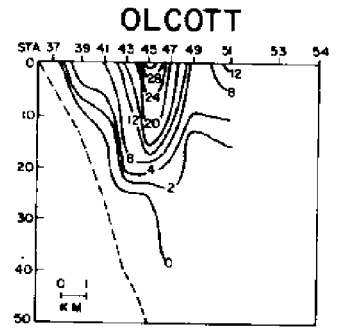
(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	1.37	0.0	1.37^8
2	1.30	0.0	1.30^8
ROCH. - 1	1.44	-0.02	1.42^8
2	1.19	-0.02	1.16
OLCOTT - 1	0.54	-0.53	0.02
2	0.37	-0.25	0.12
OSHAWA	0.04	-0.53	-0.49
PRESQU'ILE	0.40	-0.89	-0.49

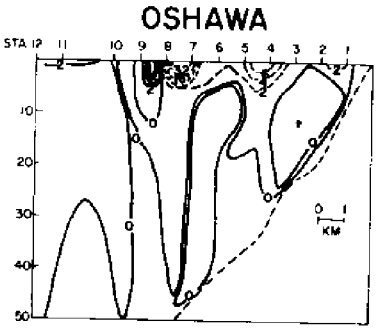
CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY

DATE: 6/5

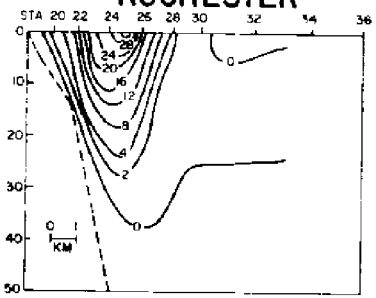
OLCOTT



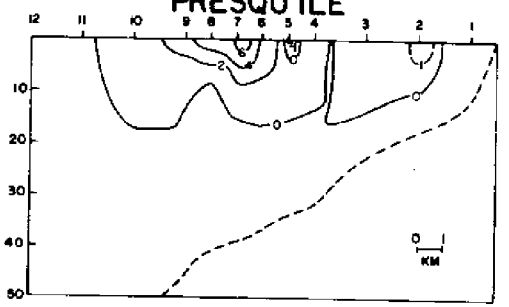
OSHAWA



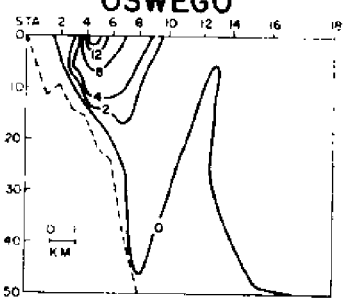
ROCHESTER



PRESQU'ILE



OSWEGO



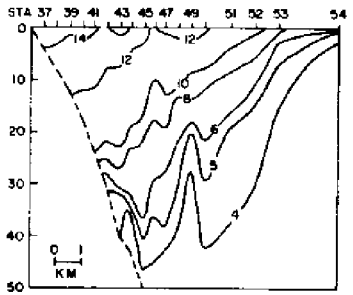
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	0.35	-0.01	0.34^8
2	0.29	-0.03	0.26^8
ROCH. - 1	0.95	-0.03	0.92^8
2	1.26	-0.01	1.25
OLCOTT - 1	1.31	-0.04	1.27
2	1.21	-0.01	1.20
OSHAWA	0.18	-0.14	0.04
PRESQU'ILE	0.18	-0.08	0.10

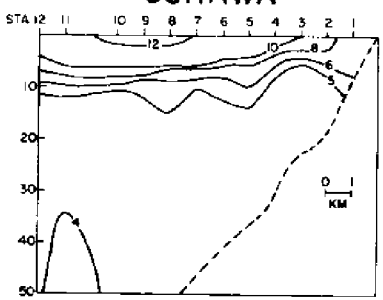
CROSS SECTIONS OF TEMPERATURE

DATE: 6/5

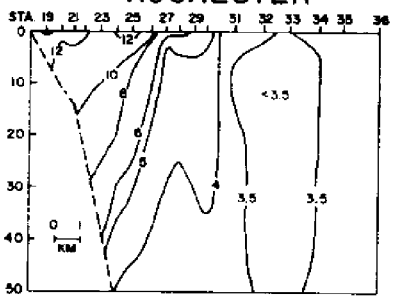
OLCOTT



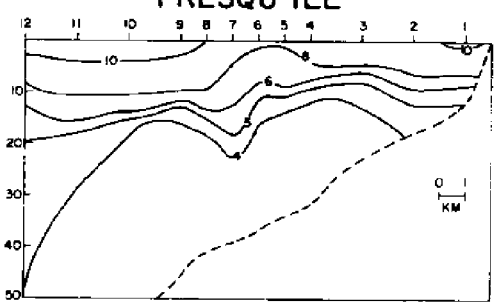
OSHAWA



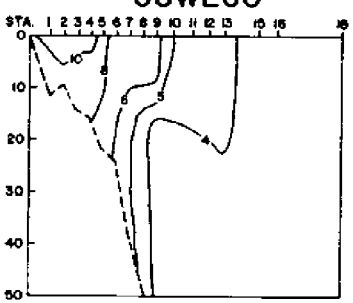
ROCHESTER



PRESQU'ILE



OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	1.02	0.01	1.03^8
2	1.01	0.03	1.04^8
ROCH. - 1	0.49	0.01	0.50^8
2	-0.07	-0.01	-0.09
OLCOTT - 1	-0.77	-0.49	-1.25
2	-0.84	-0.24	-1.07
OSHAWA	-0.14	-0.39	-0.54
PRESQU'ILE	0.22	-0.81	-0.59

HOURLY WIND SPEED AND STRESS

DATE: 6/5

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	2.65	020	- 3	- 9	
1	1.95	013	0	- 5	
2	1.88	004	0	- 7	
3	2.96	355	1	-18	
4	1.62	354	2	-10	
5	4.81	017	- 9	-33	
6	5.68	016	-12	-46	
7	5.11	025	-16	-36	
8	6.08	023	-22	-54	
9	6.52	023	-25	-59	
10	6.04	045	-39	-40	
11	6.34	054	-50	-36	
12	5.54	051	-40	-30	
13	4.61	056	-30	-18	
14	3.56	038	-16	-17	
15	3.78	023	- 8	-19	
16	3.71	011	- 3	-20	
17	3.57	019	- 5	-19	
18	3.22	350	4	-18	
19	4.27	292	26	- 9	
20	3.81	288	23	- 6	
21	5.10	288	42	-13	
22	3.56	308	15	-11	
23	3.43	272	18	0	
AVER			- 6.1	-22.2	23.0

BUOY 10 (ROCHESTER & PRESQU'ILE)

WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
3.08	007	- 1	-14	
1.92	311	6	- 3	
3.54	295	18	- 7	
3.59	296	18	- 8	
2.81	340	4	-11	
3.95	022	- 8	-21	
5.11	028	-18	-35	
4.62	037	-19	-26	
4.76	048	-25	-23	
4.34	039	-18	-22	
5.00	043	-26	-28	
5.13	044	-27	-29	
4.65	040	-20	-25	
2.70	032	- 5	- 9	
1.19	341	1	- 4	
3.13	276	15	- 1	
3.13	276	16	- 1	
3.31	279	17	- 2	
3.37	284	18	- 3	
3.90	288	22	- 6	
3.46	299	16	- 8	
3.32	311	13	-11	
2.12	289	7	- 2	
2.92	290	13	- 4	
		0	-14	14

BUOY 5 (OLCOTT & OSHAWA)

WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
4.16	260	12	4	
4.23	261	20	-16	
3.56	311	19	-42	
4.28	343	19	-48	
4.17	358	-11	-57	
3.74	008	- 9	-34	
3.94	015	- 3	-22	
3.83	016	- 4	-20	
3.40	039	- 4	-11	
4.40	032	0	1	
3.60	042	1	0	
3.55	040	2	1	
2.59	043	8	- 1	
1.41	003	4	- 4	
2.36	226	2	- 2	
2.47	254	0	- 2	
2.05	259	- 2	- 7	
2.01	286	- 2	-10	
2.24	303	0	- 9	
2.72	324	- 1	- 6	
2.10	340	0	- 6	
0.45	026	- 1	- 7	
1.22	338	- 2	0	
2.18	308	- 1	0	
		1	-13	13

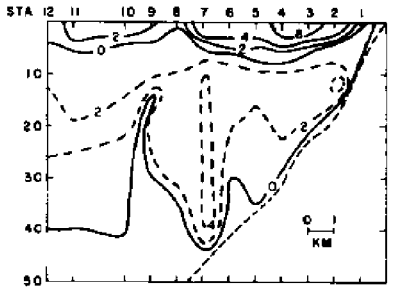
CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 6/6

OLCOTT

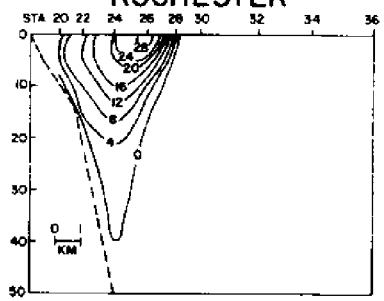
DEPTH (M)

no data

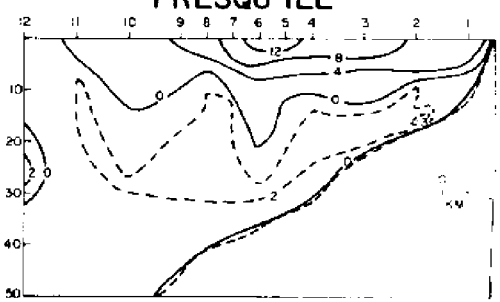
OSHAWA



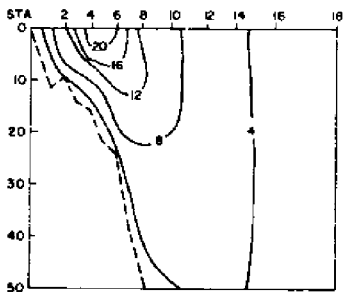
ROCHESTER



PRESQU'ILE



OSWEGO



DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	1.88	0.0	1.88^8
2	1.67	0.0	1.67^8
ROCH. - 1	0.90	-0.01	0.89
2	0.91	0.0	0.91
OLCOTT	---	---	---
OSHAWA	0.19	-0.72	-0.53
PRESQU'ILE	0.62	-0.41	0.21

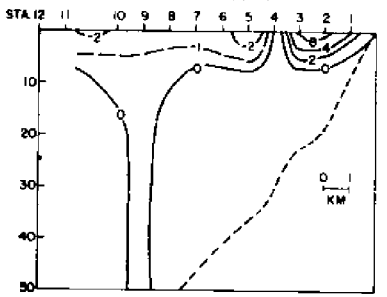
CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 6/6

OLCOTT

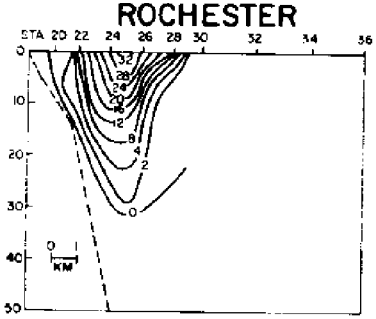
DEPTH (M)

no data

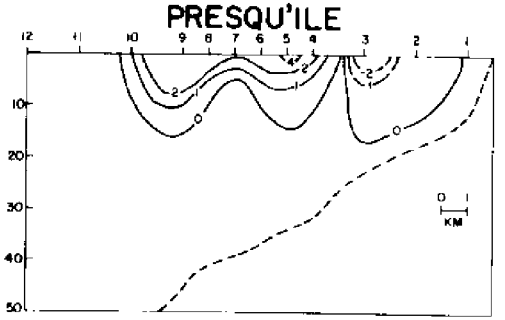
OSHAWA



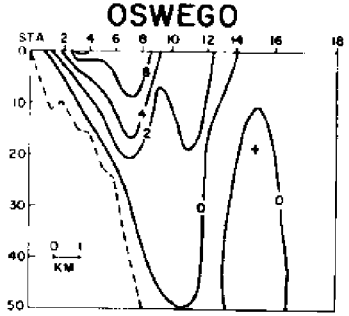
ROCHESTER



PRESQU'ILE



OSWEGO



DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	0.34	0.0	0.33^8
2	0.44	0.0	0.44^8
ROCH. - 1	0.98	-0.05	0.93
2	1.03	- .04	0.99
OLCOTT	---	---	---
OSHAWA	0.15	-0.12	0.04
PRESQU'ILE	0.16	-0.11	0.06

CROSS SECTIONS OF TEMPERATURE

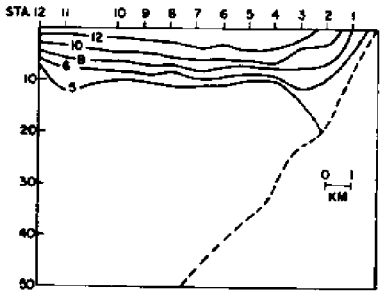
DATE: 6/6

OLCOTT

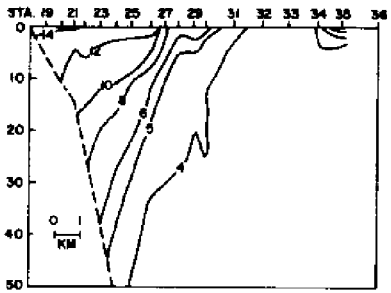
DEPTH (M)

no data

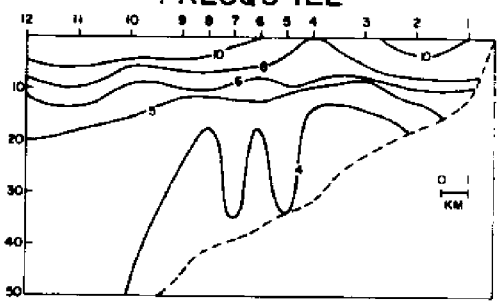
OSHAWA



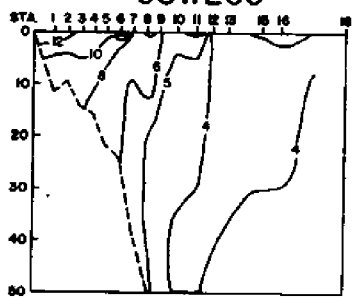
ROCHESTER



PRESQU'ILE



OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE $(u-u_g)$

$(10^4\ M^3/SEC)$

LINE	POS	NEG	TOT
OSWEGO - 1	1.54	0.0	1.55^8
2	1.23	0.0	1.23^8
ROCH. - 1	-0.08	0.04	-0.04
2	-0.12	0.04	-0.08
OLCOTT	---	---	---
OSHAWA	0.04	-0.60	-0.57
PRESQU'ILE	0.46	-0.30	0.15

HOURLY WIND SPEED AND STRESS

DATE: 6/6

BUOY 10 (ROCHESTER & PRESQU'ILE)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	3.08	292	14	- 4	
1	2.80	271	12	0	
2	1.85	253	6	1	
3	1.84	274	4	4	
4	1.70	194	1	4	
5	2.00	213	3	5	
6	2.40	222	6	7	
7	1.99	254	6	2	
8	1.41	287	4	0	
9	0.51	122	0	0	
10	2.01	106	- 5	2	
11	2.22	094	- 6	1	
12	1.72	137	- 2	3	
13	1.17	111	- 1	1	
14	1.83	225	5	4	
15	2.06	251	6	2	
16	2.01	230	6	5	
17	2.64	291	11	- 4	
18	3.04	295	13	- 6	
19	3.09	296	13	- 6	
20	3.02	289	13	- 4	
21	3.56	294	18	- 7	
22	5.28	285	41	-10	
23	5.67	294	47	-19	
AVER			9	- 1	9

BUOY 11 (OSWEGO)

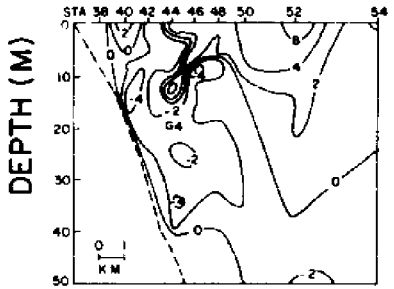
TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	3.32	281	17	- 2	
1	3.78	293	29	-11	
2	3.23	297	14	- 7	
3	2.97	290	13	- 4	
4	2.67	289	11	- 3	
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
AVER			16.8	- 5.4	17.7

BUOY 5 (OLCOTT & OSHAWA)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	1.66	224	- 2	0	
1	1.93	229	- 4	1	
2	2.09	200	- 5	9	
3	2.64	189	- 6	7	
4	2.71	197	- 1	1	
5	2.52	195	- 3	0	
6	1.30	208	- 6	- 1	
7	1.18	026	- 4	- 3	
8	2.32	001	- 3	- 9	
9	1.91	053	- 7	- 3	
10	2.05	049	- 2	3	
11	1.35	219	0	0	
12	1.20	271	3	3	
13	2.53	216	3	3	
14	1.90	254	5	4	
15	2.62	248	10	3	
16	1.87	302	12	- 2	
17	2.48	266	12	0	
18	2.95	265	8	- 2	
19	2.19	277	20	- 1	
20	3.01	271	26	- 3	
21	3.47	287	11	- 2	
22	3.96	286	14	-22	
23	4.80	327	17	-23	
AVER			4	- 2	4

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 6/7

OLCOTT



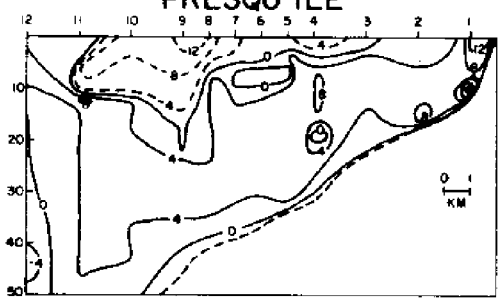
OSHAWA

no data

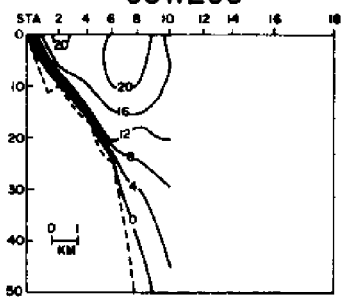
ROCHESTER

no data

PRESQU'ILE



OSWEGO



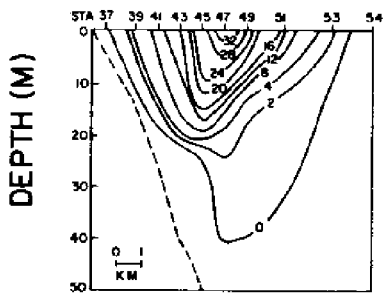
DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	1.46	0.0	1.46^5
2	1.85	0.0	1.85^5
ROCHESTER	0.67	0.0	0.67^2
OLCOTT - 1	0.39	-0.39	0.01
2	0.45	-0.40	0.05
OSHAWA	---	---	---
PRESQU'ILE	2.01	-0.67	1.34

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 6/7

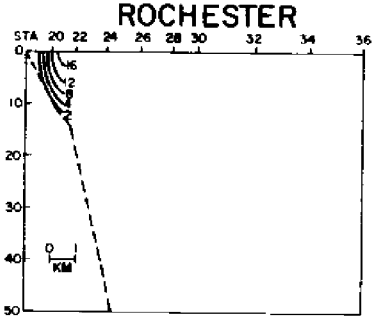
OLCOTT



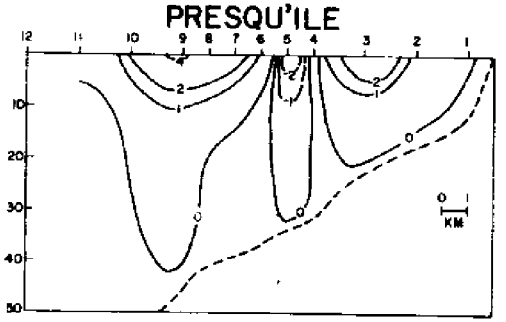
OSHAWA

no data

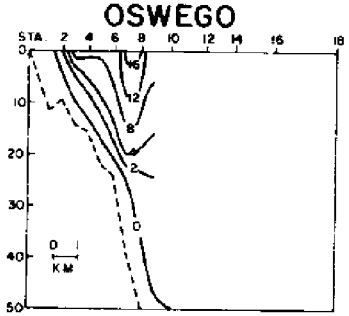
ROCHESTER



PRESQU'ILE



OSWEGO

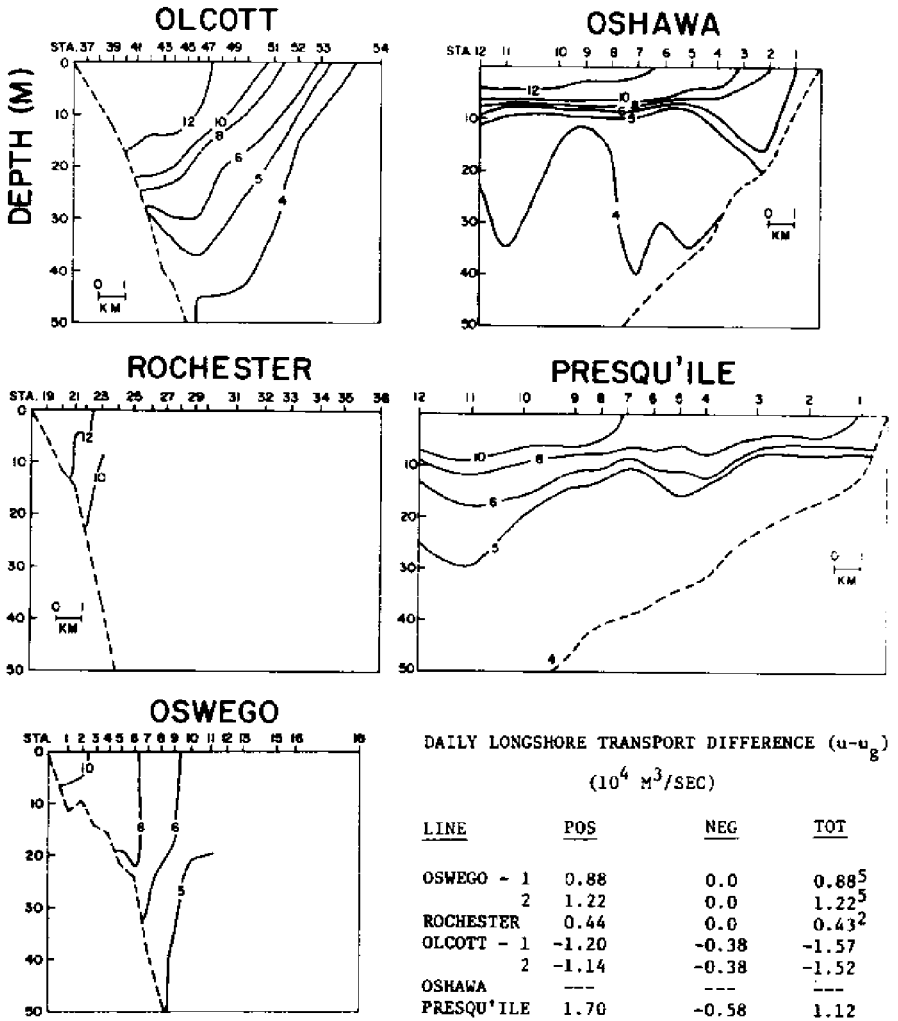


DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	0.58	0.0	0.58^5
2	0.63	0.0	0.63^5
ROCHESTER	0.23	0.0	0.24^2
OLCOTT - 1	1.59	-0.01	1.57
2	1.59	-0.02	1.57
OSHAWA	---	---	---
PRESQU'ILE	0.31	-0.09	0.22

CROSS SECTIONS OF TEMPERATURE

DATE: 6/7



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	0.88	0.0	0.88^5
2	1.22	0.0	1.22^5
ROCHESTER	0.44	0.0	0.43^2
OLCOTT - 1	-1.20	-0.38	-1.57
2	-1.14	-0.38	-1.52
OSHAWA	---	---	---
PRESQU'ILE	1.70	-0.58	1.12

DATE: 6/7

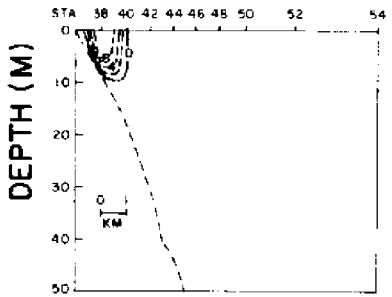
HOURLY WIND SPEED AND STRESS

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0						5.45	310	36	-30		4.93	331	19	-36	
1						5.49	343	14	-46		4.69	357	4	-31	
2						4.89	344	10	-35		3.79	338	1	-25	
3						5.07	318	29	-31		4.19	316	7	-26	
4						4.81	315	26	-24		2.51	339	11	-16	
5						4.21	302	24	-14		2.41	313	10	-13	
6						3.88	312	17	-15		3.57	304	10	-19	
7						4.47	314	23	-21		4.31	304	19	-11	
8						3.80	300	20	-11		4.61	306	14	-12	
9						4.81	319	24	-27		4.13	315	19	-15	
10						5.10	332	19	-35		3.27	332	13	-26	
11						3.17	300	14	- 8		3.33	321	3	-22	
12						4.83	313	27	-24		4.43	338	10	-18	
13						4.32	310	23	-18		3.35	320	12	-10	
14						3.56	278	21	- 3		2.68	289	10	- 9	
15						3.89	266	24	2		3.91	278	15	- 8	
16						4.00	283	26	- 4		4.32	264	19	- 2	
17						4.82	286	36	-10		5.04	264	28	8	
18						5.79	282	51	-10		5.53	249	21	8	
19						6.01	269	60	2		5.69	265	32	12	
20	4.83	287	41	-11		6.22	261	61	10		5.65	269	32	12	
21	5.65	284	50	-12		6.01	277	59	- 6		5.49	260	27	7	
22	5.28	287	42	-12		6.02	268	59	2		4.59	266	25	1	
23						6.01	279	56	- 8		4.73	267	27	0	
AVER			44.3	-11.7	45.8			32	-16	35			16	-11	20

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY

DATE: 6/8

OLCOTT



OSHAWA

no data

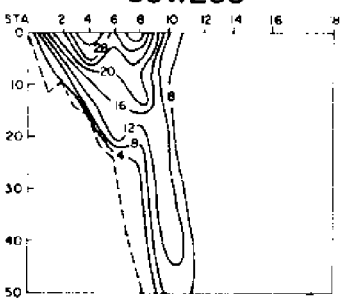
ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO



DAILY LONGSHORE VELOCITY TRANSPORT (u)

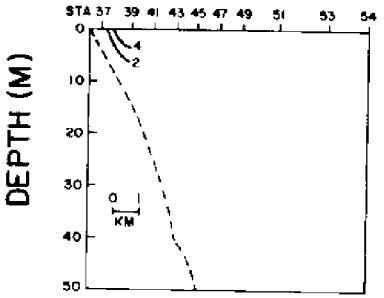
(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	2.22	0.0	2.22^6
2	2.18	0.0	2.18^7
ROCHESTER	---	---	---
OLCOTT	0.0	-0.07	-0.07^2
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY

DATE: 6/8

OLCOTT



OSHAWA

no data

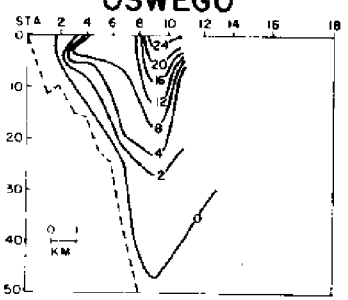
ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO



DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	0.62	-0.05	0.57^6
2	0.89	-0.00	0.89^7
ROCHESTER	---	---	---
OLCOTT	0.05	0.0	0.05^2
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

CROSS SECTIONS OF TEMPERATURE

DATE: 6/8

OLCOTT

no data

OSHAWA

no data

DEPTH (M)

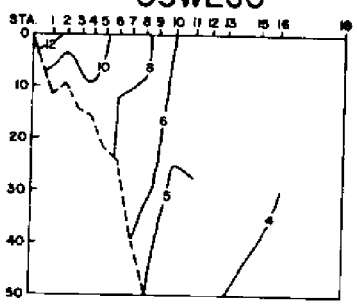
ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($v - v_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	1.60	0.05	1.65^6
2	1.29	0.0	1.30^7
ROCHESTER	---	---	---
OLCOTT	-0.05	-0.07	-0.12
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

HOURLY WIND SPEED AND STRESS

DATE: 6/8

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	4.99	286	37	-10	
1	5.35	277	47	- 5	
2	5.40	285	45	-11	
3	4.89	288	37	-11	
4	4.93	289	36	-12	
5	4.05	270	26	0	
6	4.16	243	24	12	
7	4.59	241	30	17	
8	6.14	230	45	39	
9	6.87	248	67	27	
10	5.16	274	41	- 1	
11	4.00	276	26	- 2	
12	2.47	291	10	- 3	
13	3.22	263	17	1	
14	3.39	286	18	- 5	
15	5.03	313	29	-28	
16	4.33	303	24	-15	
17	4.07	293	26	-10	
18	4.05	305	32	-15	
19	2.00	270	10	2	
20	2.80	265	13	2	
21	2.44	247	9	4	
22	3.04	205	6	13	
23	3.47	219	12	15	
AVER			27.8	0.2	27.8

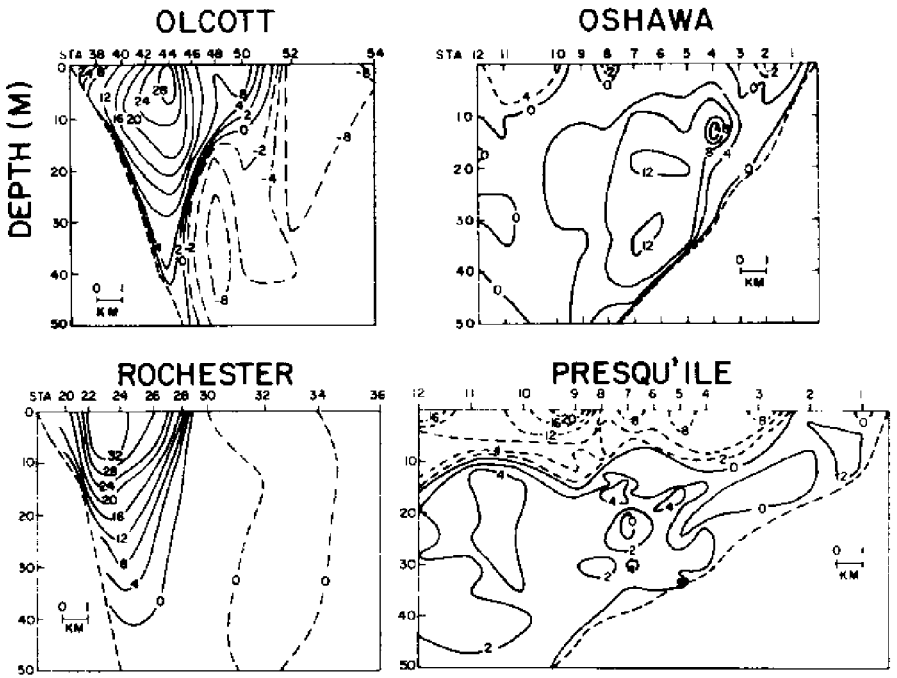
BUOY 10 (ROCHESTER & PRESQU'ILE)

	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
	5.69	279	56	-10	
	4.73	298	33	-17	
	3.90	282	25	- 4	
	4.18	272	28		
	3.53	240	17		
	4.31	224			
	3.80	217			
	5.28	257			
	6.69	236	59	41	
	8.05	256	100	25	
	6.14	235	49	35	
	7.10	259	80	15	
	8.00	250	94	34	
	7.41	261	87	14	
	6.71	270	81	0	
	6.28	272	65	- 1	
	5.53	317	37	-36	
	4.56	342	11	-32	
	3.69	280	22	- 3	
	3.38	266	20	1	
	2.88	246	14	6	
	2.45	263	10	1	
	2.44	287	10	- 2	
	2.03	289	7	- 1	
			41	5	41

BUOY 5 (OLCOTT & OSHAWA)

	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
	4.06	274	18	6	
	3.99	253	18	8	
	4.31	244	26	11	
	4.84	241	20	21	
	5.27	251	20	23	
	4.80	238	30	27	
	4.14	228	44	18	
	3.91	245	41	25	
	5.84	253	40	22	
	7.06	241	55	19	
	7.47	752	66	30	
	7.55	252	63	36	
	7.26	247	87	35	
	7.40	247	57	43	
	5.98	255	56	29	
	6.43	236	64	0	
	6.19	260	35	4	
	4.77	290	34	2	
	3.85	278	41	6	
	3.10	300	49	9	
	3.11	265	49	- 7	
	2.94	282	46	- 7	
	2.60	270	26	- 3	
	3.26	300	11	- 2	
			42	15	44

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 6/9

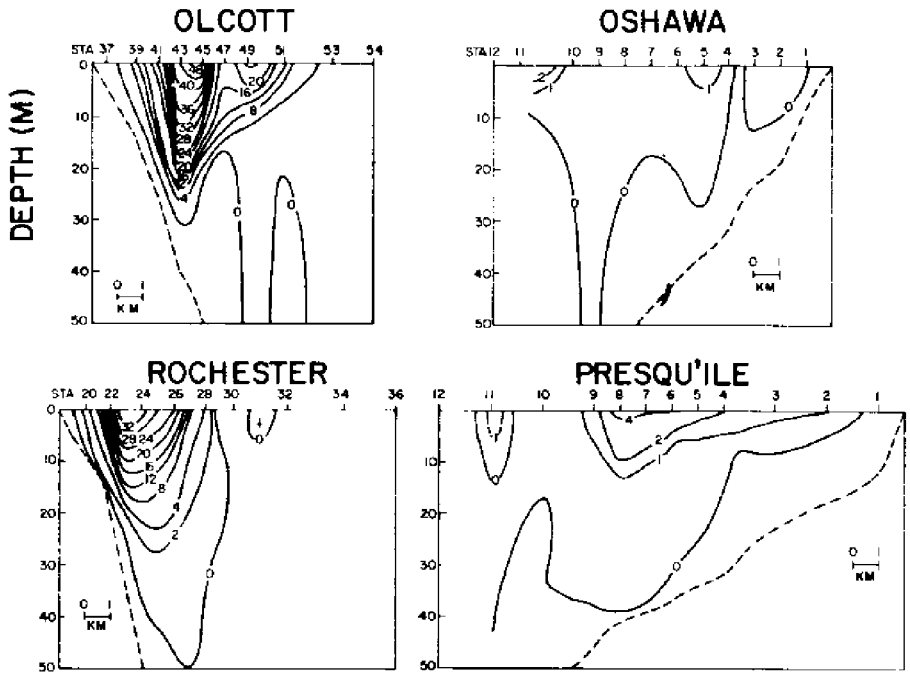


DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	2.35	-0.14	2.22
2	2.43	-0.02	2.42
ROCH. - 1	2.03	-0.41	1.62
2	2.05	-0.04	2.01^8
OLCOIT - 1	1.87	-1.72	0.14
2	1.74	-0.95	0.79
OSHAWA - 1	2.16	-0.16	2.00
2	2.51	-0.04	2.48^{10}
PRESQU'ILE	0.87	-0.94	-0.06

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 6/9

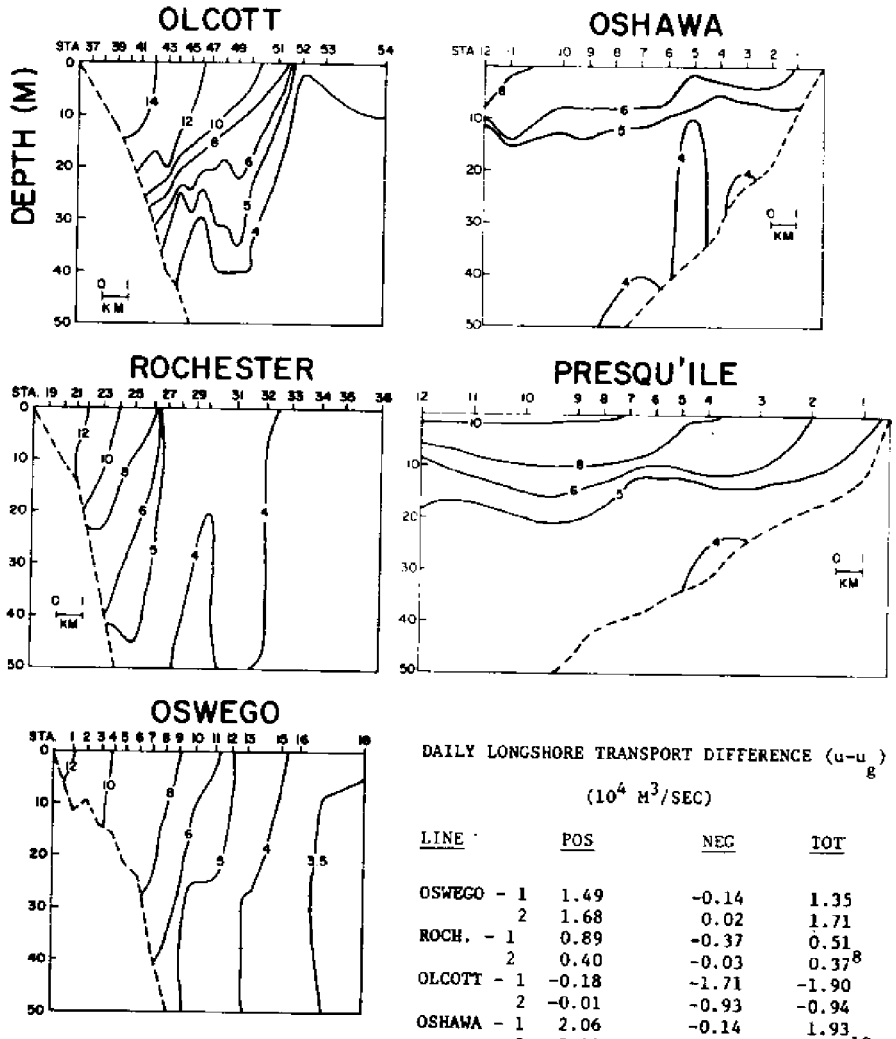


DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	0.86	0.0	0.86
2	0.75	-0.04	0.71
ROCH. - 1	1.14	-0.04	1.11
2	1.65	-0.01	1.64^8
OLCOTT - 1	2.05	-0.01	2.04
2	1.75	-0.02	1.73
OSHAWA - 1	0.10	-0.02	0.08
2	0.08	-0.04	0.04^{10}
PRESQU'ILE	0.19	-0.05	0.14

CROSS SECTIONS OF TEMPERATURE

DATE: 6/9



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	1.49	-0.14	1.35
2	1.68	0.02	1.71
ROCH. - 1	0.89	-0.37	0.51
2	0.40	-0.03	0.37[8]
OLCOTT - 1	-0.18	-1.71	-1.90
2	-0.01	-0.93	-0.94
OSHAWA - 1	2.06	-0.14	1.93
2	2.43	0.0	2.43[10]
PRESQU'ILE	0.68	-0.89	-0.20

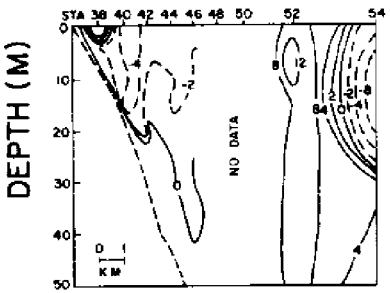
HOURLY WIND SPEED AND STRESS

DATE: 6/9

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	2.12	233	8	5		3.26	236	15	11		2.44	285	9	7	
1	3.39	230	14	12		3.57	239	19	11		2.84	207	4	0	
2	3.36	214	10	15		2.76	236	10	7		3.21	244	30	0	
3	3.92	233	20	15		4.34	243	27	13		4.86	247	28	- 3	
4	5.16	242	37	20		4.12	232	23	18		4.88	251	19	14	
5	6.14	227	45	41		4.28	238	26	18		3.94	273	15	18	
6	8.00	262	108	13		4.78	273	37	0		5.12	246	4	1	
7	8.12	252	98	31		4.75	272	39	0		4.50	262	12	1	
8	7.54	260	87	15		5.38	283	44	- 9		3.89	279	38	5	
9	6.04	288	54	-17		5.52	279	48	- 7		3.92	267	33	- 6	
10	5.22	286	40	-11		5.12	307	34	-25		3.41	278	22	-13	
11	3.96	300	22	-11		3.41	274	18	0		3.46	285	19	-10	
12	3.37	325	10	-13		3.96	277	25	- 2		4.03	291	13	-17	
13	2.30	292	8	- 2		3.39	303	17	- 9		3.51	282	11	-10	
14	3.03	269	15	0		3.63	300	18	-10		3.22	297	23	- 8	
15	2.67	276	12	0		2.96	257	15	3		3.92	257	20	- 5	
16	2.72	265	11	1		3.30	252	17	6		3.75	253	18	2	
17	1.95	259	6	1		3.63	261	21	4		4.30	263	22	0	
18	1.52	266	4	0		2.72	260	12	2		5.70	255	24	4	
19	2.08	234	6	4		2.08	271	7	0		5.37	242	18	1	
20	3.51	247	18	7		1.76	272	5	0		5.18	269	17	- 6	
21	3.20	256	17	4		1.69	307	4	- 2		4.67	293	22	-12	
22	1.44	274	4	0		2.30	302	8	- 5		5.46	314	15	-28	
23	2.90	317	8	-16		2.37	286	11	- 2		6.05	335	12	-25	
AVER			27.6	4.8	28.0			21	0	21			19	- 4	19

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 6/10

OLCOTT



OSHAWA

no data

ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

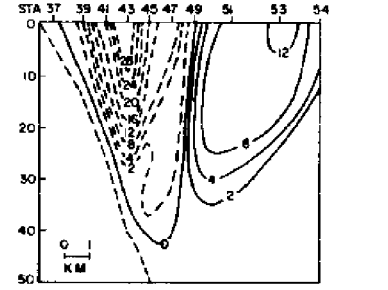
DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT - 1	2.06	-0.43	1.62^7
2	1.26	-0.52	0.74^7
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 6/10

OLCOTT



OSHAWA

no data

ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

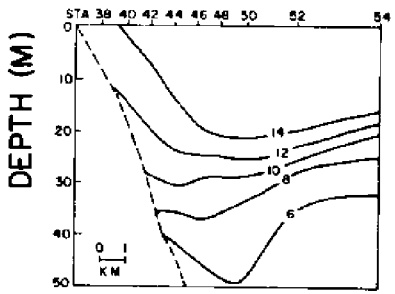
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT - 1	1.02	-0.99	0.04^7
2	2.27	-0.29	1.97^7
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

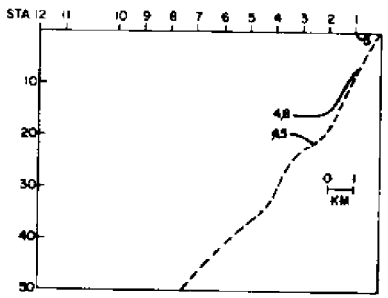
CROSS SECTIONS OF TEMPERATURE

DATE: 6/10

OLCOTT



OSHAWA



ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT - 1	1.04	0.56	1.59^7
2	-1.01	-0.23	-1.23^7
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

HOURLY WIND SPEED AND STRESS

DATE: 6/10

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	8.34	030	-55	-93	
1	9.25	045	-99	-94	
2	9.74	048	-118	-101	
3	11.05	034	-108	-159	
4	8.96	026	-55	-112	
5	7.75	022	-36	-91	
6	7.01	031	-40	-67	
7	7.10	002	- 2	-77	
8	7.74	359	3	-96	
9	8.27	355	10	-112	
10	8.91	015	-32	-128	
11	8.39	014	-28	-144	
12	10.45	031	-93	-161	
13	10.67	031	-91	-153	
14	10.44	015	-44	-162	
15	8.51	005	- 8	-118	
16	7.19	017	-27	-91	
17	8.01	005	- 8	-97	
18	6.34	018	-18	-62	
19	6.18	012	-11	-58	
20	4.61	025	-14	-29	
21	3.87	033	-12	-19	
22	3.02	039	- 9	-10	
23	0.93	257	3	1	
AVER			-37.2	-93.0	100.2

BUOY 10 (ROCHESTER & PRESQU'ILE)

WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
7.65	003	- 8	-96	
6.52	024	-28	-68	
6.95	010	-42	-72	
6.77	007	- 9	-76	
5.90	027	-27	-55	
5.72	025	-24	-49	
4.74	019	-10	-35	
4.82	343	11	-34	
5.90	342	18	-52	
6.91	006	- 7	-73	
8.09	021	-38	-98	
8.88	036	-77	-109	
9.42	047	-105	-99	
8.40	038	-68	-90	
7.41	358	0	-92	
5.56	020	-17	-48	
4.81	002	- 2	-40	
5.54	011	-11	-59	
5.02	358	0	-44	
3.33	345	5	-18	
2.11	306	6	- 4	
2.35	251	9	3	
4.69	234	29	21	
3.48	251	19	8	
		-16	-54	57

BUOY 5 (OLCOTT & OSHAWA)

WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
6.46	334	3	-61	
6.84	028	0	-43	
5.90	360	- 6	-49	
4.80	007	-16	-30	
5.68	015	5	-31	
5.11	020	11	-41	
4.69	343	- 9	-57	
5.76	348	- 6	-45	
4.75	358	24	-36	
6.30	018	- 6	-72	
5.20	355	- 2	-48	
6.65	006	2	-57	
6.74	000	4	-54	
6.69	011	5	-24	
5.80	006	2	-22	
5.32	357	9	- 9	
4.88	330	16	-15	
4.13	300	36	-27	
4.55	004	29	-25	
5.23	345	33	-18	
1.80	293	17	-15	
2.86	300	25	- 1	
4.53	309	34	-15	
6.72	325	42	-40	
		10	-36	37

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 6/11

OLCOTT

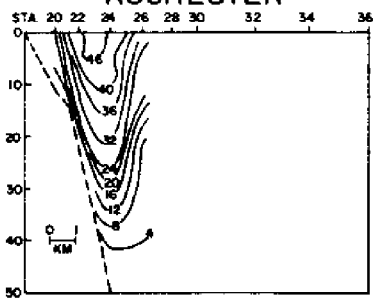
OSHAWA

DEPTH (M)

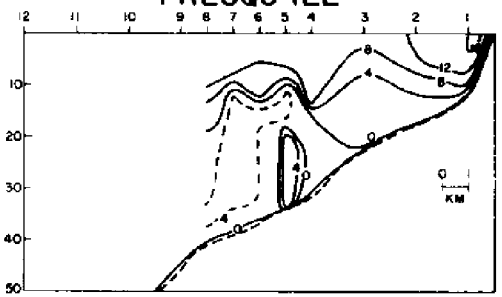
no data

no data

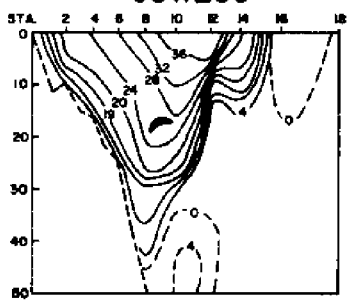
ROCHESTER



PRESQU'ILE



OSWEGO



DAILY LONGSHORE VELOCITY TRANSPORT (q)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	3.58	-0.18	3.40
ROCHESTER	3.01	0.0	3.01^4
OLCOTT	---	---	---
OSHAWA	---	---	---
PRESQU'ILE	1.29	-0.37	0.92^8

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 6/11

OLCOTT

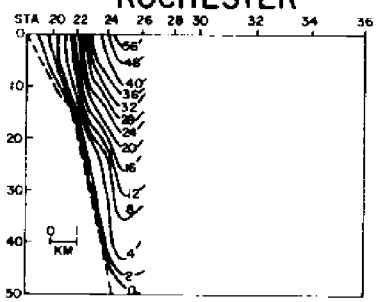
OSHAWA

DEPTH (M)

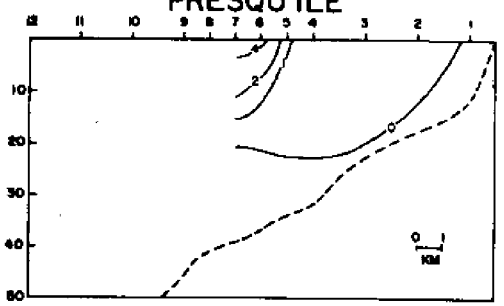
no data

no data

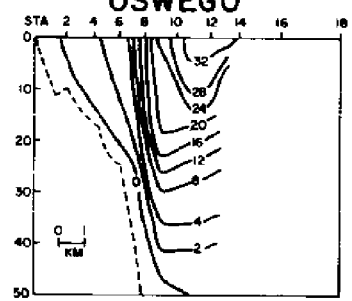
ROCHESTER



PRESQU'ILE



OSWEGO



DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (q_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	2.28	-0.01	2.27
ROCHESTER	2.12	0.0	2.12^4
OLCOTT	---	---	---
OSHAWA	---	---	---
PRESQU'ILE	0.13	-0.01	0.12^8

CROSS SECTIONS OF TEMPERATURE

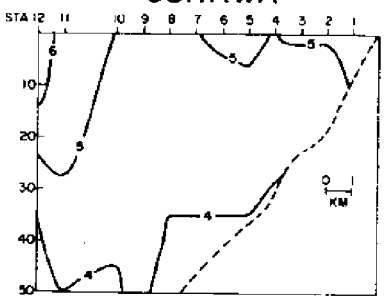
DATE: 6/11

OLCOTT

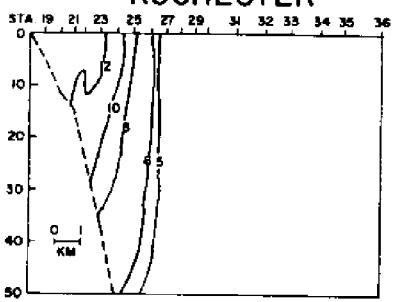
DEPTH (M)

no data

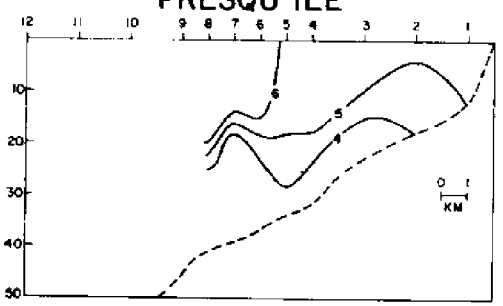
OSHAWA



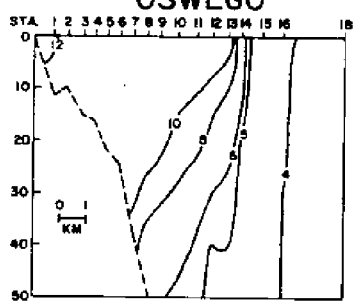
ROCHESTER



PRESQU'ILE



OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	1.30	-0.17	1.14
ROCHESTER	0.89	0.0	0.89^4
OLCOTT	---	---	---
OSHAWA	---	---	---
PRESQU'ILE	1.16	-0.36	0.80^8

HOURLY WIND SPEED AND STRESS

DATE: 6/11

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	2.56	244	9	5	
1	2.88	280	15	- 3	
2	4.10	298	23	-11	
3	4.69	344	9	-33	
4	5.32	008	- 5	-50	
5	7.21	010	-13	-79	
6	3.65	002	0	-42	
7	5.21	011	-10	-50	
8	6.06	339	20	-53	
9	5.73	323	33	-42	
10	5.78	325	31	-43	
11	5.59	304	40	-26	
12	5.23	302	37	-22	
13	4.29	282	29	- 5	
14	6.07	280	57	- 9	
15	6.60	278	69	- 8	
16	6.09	274	60	- 4	
17	4.96	277	38	- 3	
18	4.51	263	33	4	
19	5.08	259	40	7	
20	4.91	273	37	- 1	
21	4.55	246	31	14	
22	6.07	263	57	7	
23	6.13	271	60	0	
AVER			25.8	-18.6	31.8

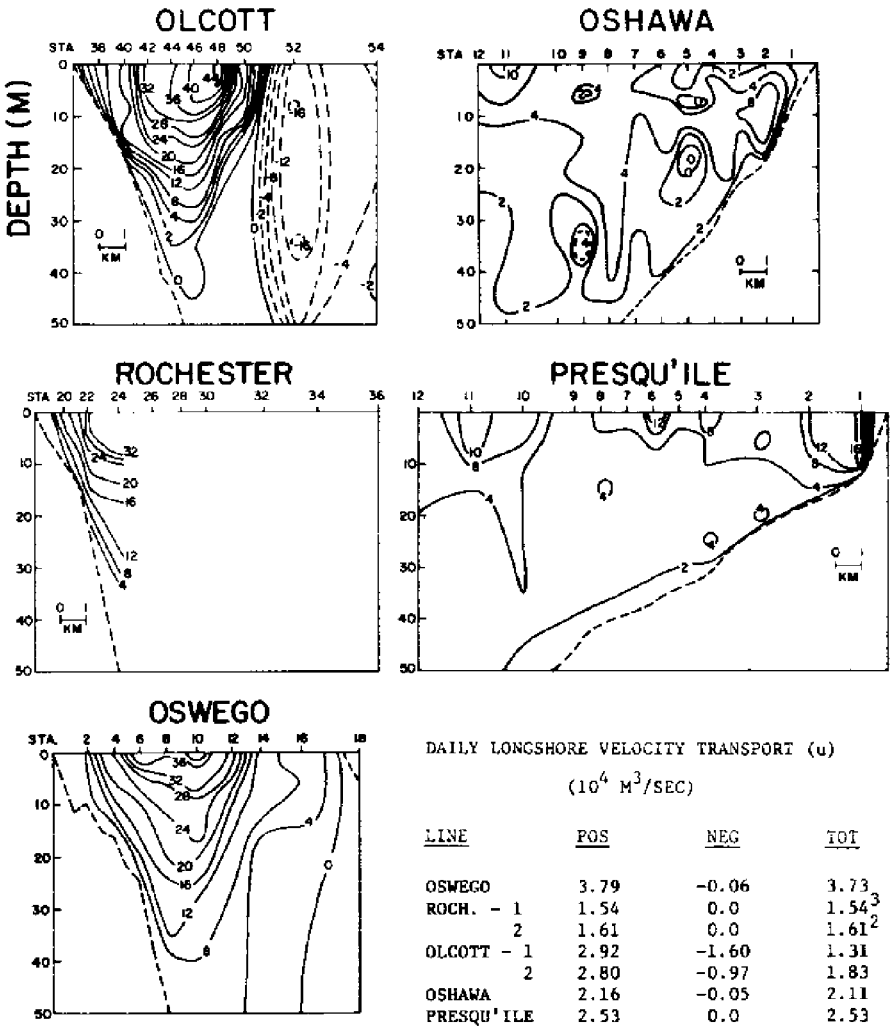
BUOY 10 (ROCHESTER & PRESQU'ILE)

WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
3.90	277	25	- 2	
4.00	294	24	- 9	
3.65	001	0	-20	
3.04	342	4	-13	
4.62	334	15	-31	
4.77	325	21	-29	
4.68	308	28	-21	
4.40	311	24	-19	
4.08	317	18	-19	
4.33	308	24	-17	
4.26	296	28	-13	
3.82	305	19	-12	
5.38	283	46	- 8	
6.62	254	66	-19	
5.22	275	44	- 3	
5.09	302	35	-20	
5.54	289	46	-15	
5.00	278	42	- 5	
4.82	286	37	-10	
5.93	258	56	15	
7.04	273	77	- 3	
6.90	265	74	6	
6.67	252	66	22	
7.02	254	73	21	
		37	- 8	38

BUOY 5 (OLCOTT & OSHAWA)

WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
6.40	302	51	-52	
7.34	307	38	-59	
6.86	321	34	-68	
6.91	329	12	-47	
5.94	311	15	-27	
4.49	314	13	-15	
4.87	315	22	-21	
4.45	295	12	- 7	
3.56	304	22	- 5	
2.23	271	18	0	
3.15	271	25	7	
4.09	252	39	- 4	
4.31	267	26	-17	
4.64	264	30	0	
4.94	260	38	- 3	
5.58	267	34	6	
4.20	260	22	4	
5.10	234	24	6	
5.94	237	36	7	
6.53	242	38	4	
6.26	233	41	21	
6.31	228	26	20	
6.55	234	38	38	
6.57	226	67	15	31
		30	- 9	

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 6/12

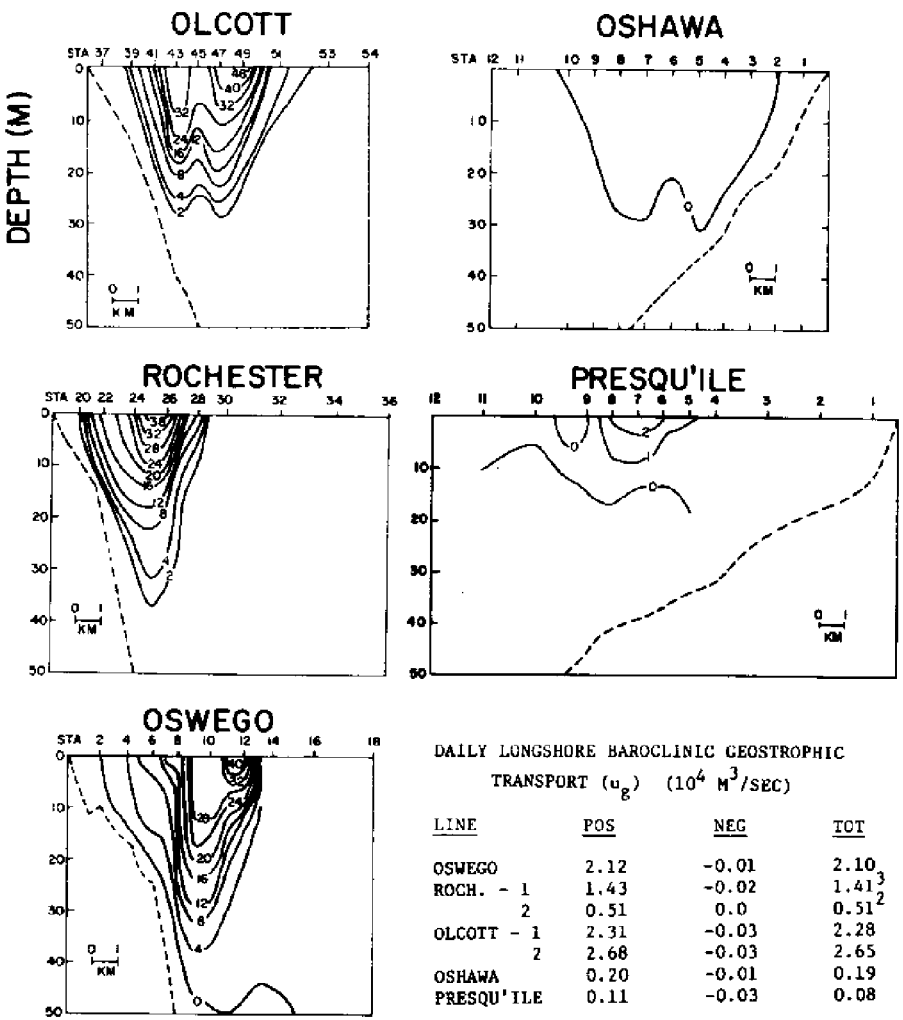


DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	3.79	-0.06	3.73
ROCH. - 1	1.54	0.0	1.54[3]
2	1.61	0.0	1.61[2]
OLCOTT - 1	2.92	-1.60	1.31
2	2.80	-0.97	1.83
OSHAWA	2.16	-0.05	2.11
PRESQU'ILE	2.53	0.0	2.53

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 6/12

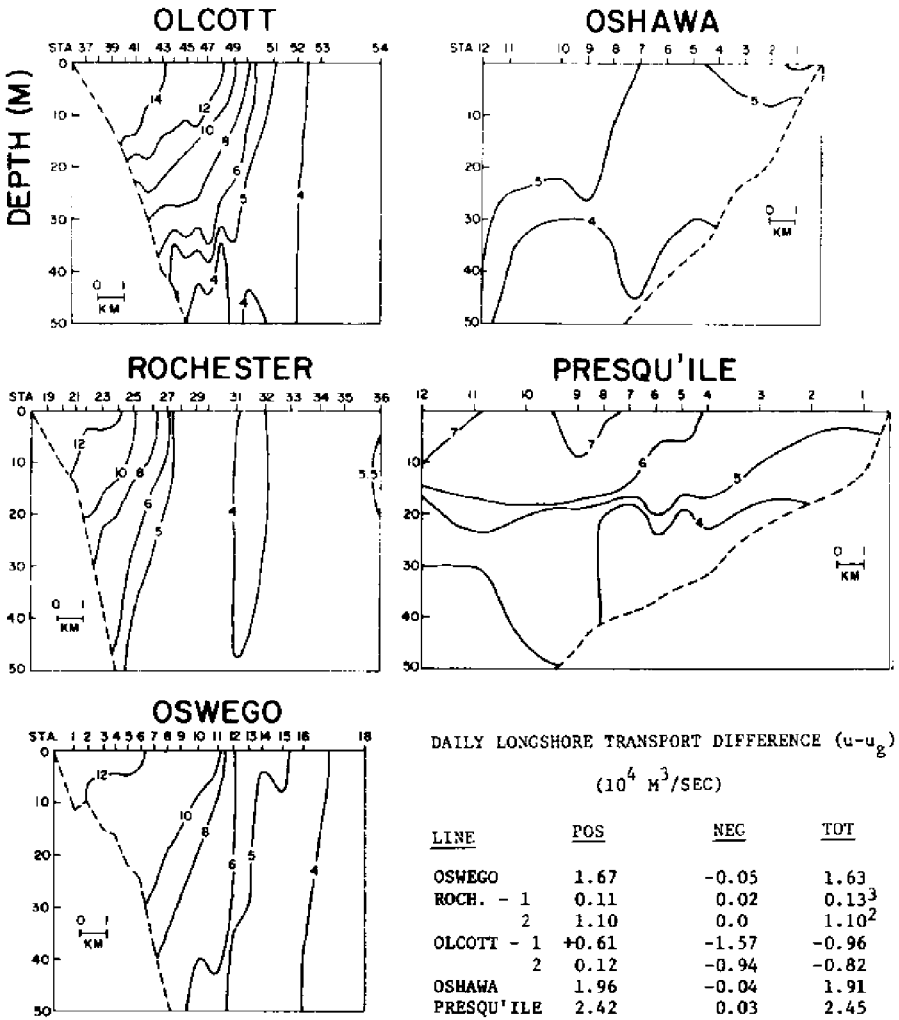


DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	2.12	-0.01	2.10
ROCH. - 1	1.43	-0.02	1.41[3]
2	0.51	0.0	0.51[2]
OLCOTT - 1	2.31	-0.03	2.28
2	2.68	-0.03	2.65
OSHAWA	0.20	-0.01	0.19
PRESQU'ILE	0.11	-0.03	0.08

CROSS SECTIONS OF TEMPERATURE

DATE: 6/12



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

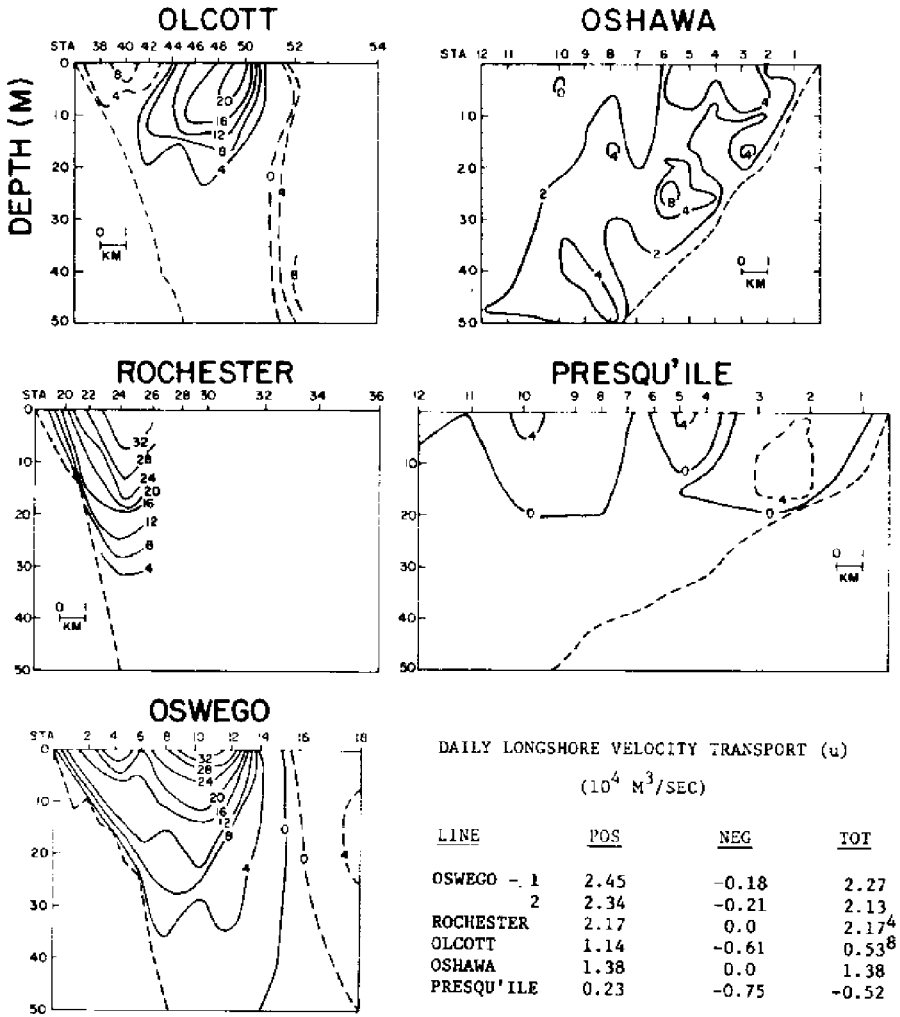
LINE	POS	NEG	TOT
OSWEGO	1.67	-0.05	1.63
ROCH. - 1	0.11	0.02	0.13^3
2	1.10	0.0	1.10^2
OLCOTT - 1	+0.61	-1.57	-0.96
2	0.12	-0.94	-0.82
OSHAWA	1.96	-0.04	1.91
PRESQU'ILE	2.42	0.03	2.45

HOURLY WIND SPEED AND STRESS

DATE: 6/12

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	6.84	266	74	5		7.51	244	81	40		7.46	217	51	27	
1	8.34	257	103	24		7.42	246	78	35		6.10	245	36	27	
2	8.36	265	110	10		6.57	244	60	30		4.58	237	26	11	
3	7.24	257	81	20		4.61	224	24	26		5.19	244	38	16	
4	7.15	262	77	11		5.43	256	51	12		5.46	248	32	14	
5	6.73	272	70	-2		5.99	263	56	7		4.82	244	24	15	
6	5.17	266	44	3		5.34	243	40	20		4.46	237	23	20	
7	4.41	271	33	0		4.26	231	24	18		4.39	231	22	20	
8	3.00	224	11	11		3.61	235	18	12		3.96	251	24	20	
9	4.04	237	22	14		3.71	244	19	9		4.41	235	17	11	
10	4.47	235	26	18		2.42	240	9	6		4.01	242	33	24	
11	2.88	241	15	9		2.07	266	7	1		3.60	240	34	0	
12	5.18	224	29	29		2.18	235	6	4		5.22	257	22	3	
13	4.89	208	17	33		2.03	188	1	7		4.46	225	17	26	
14	4.40	219	20	25		2.45	212	6	9		4.69	227	25	19	
15	5.69	206	22	45		3.12	209	8	14		5.37	221	19	11	
16	5.80	208	24	46		3.92	205	10	21		5.22	236	18	2	
17	4.77	209	17	31		3.07	227	13	13		4.19	245	15	2	
18	3.93	247	23	10		2.25	273	9	0		3.54	224	0	2	
19	3.33	241	17	9		1.37	209	3	5		2.65	220	5	0	
20	4.14	218	16	21		1.44	235	3	2		2.52	231	5	-2	
21	4.88	219	23	28		1.10	234	2	1		3.13	235	8	0	
22	4.16	224	19	20		2.42	312	8	-6		3.10	231	6	5	
23	3.65	260	21	3		2.60	244	10	5		3.46	212	2	12	24
AVER			38.1	17.6	42.0			23	12	26			21	12	24

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 6/13

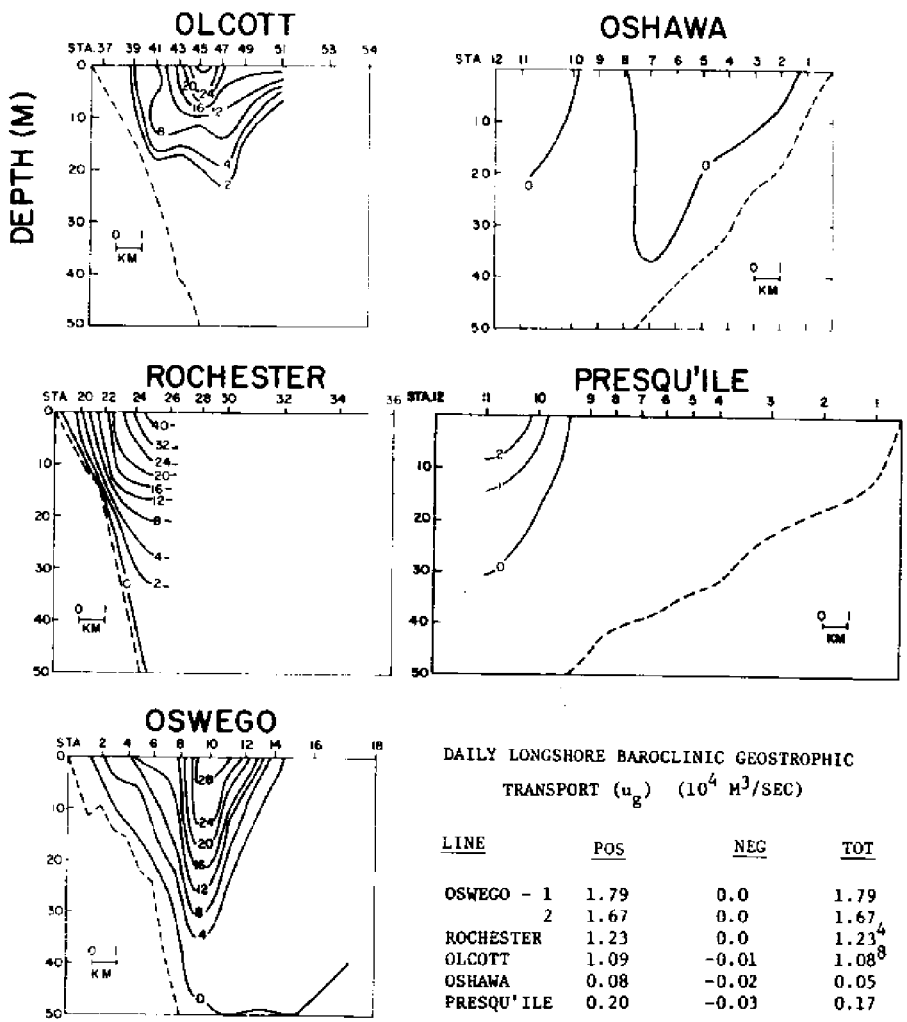


DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	2.45	-0.18	2.27
2	2.34	-0.21	2.13
ROCHESTER	2.17	0.0	2.17
OLCOTT	1.14	-0.61	0.53
OSHAWA	1.38	0.0	1.38
PRESQU'ILE	0.23	-0.75	-0.52

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 6/13

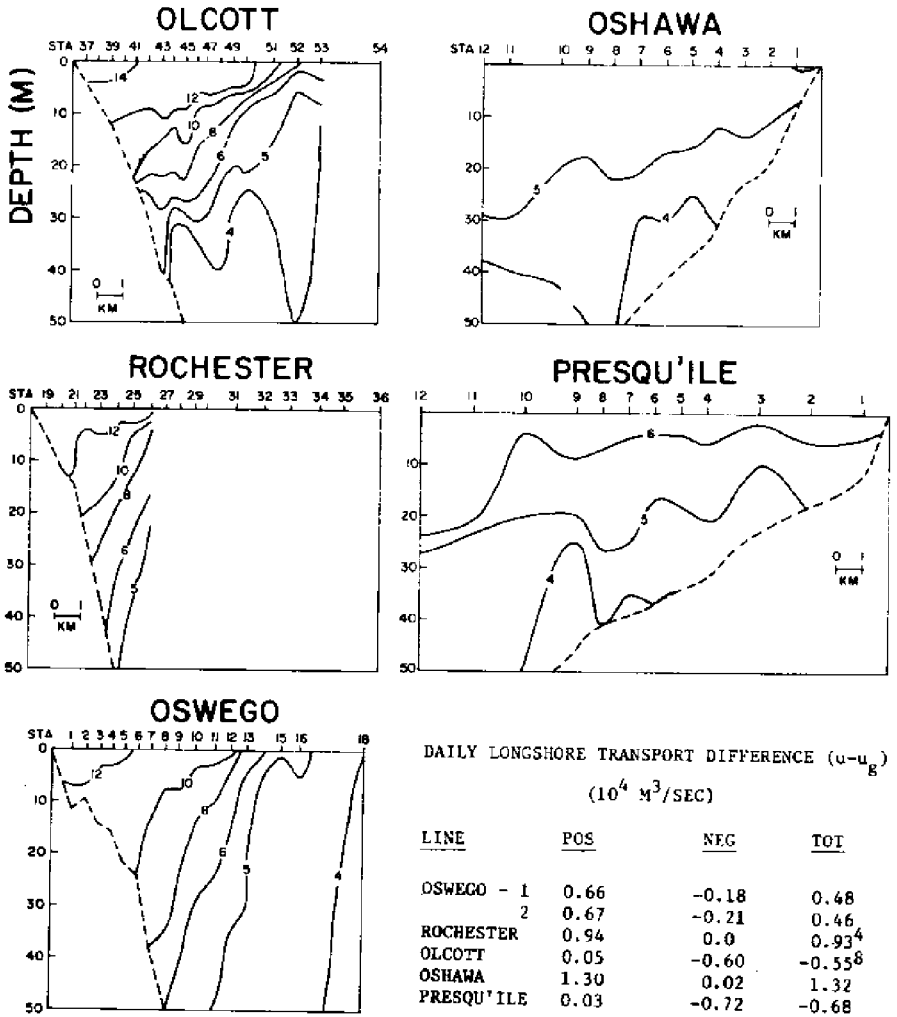


DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	1.79	0.0	1.79
2	1.67	0.0	1.67
ROCHESTER	1.23	0.0	1.23
OLCOTT	1.09	-0.01	1.08
OSHAWA	0.08	-0.02	0.05
PRESQU'ILE	0.20	-0.03	0.17

CROSS SECTIONS OF TEMPERATURE

DATE: 6/13



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	0.66	-0.18	0.48
2	0.67	-0.21	0.46
ROCHESTER	0.94	0.0	0.93^4
OLCOTT	0.05	-0.60	-0.55^8
OSHAWA	1.30	0.02	1.32
PRESQU'ILE	0.03	-0.72	-0.68

HOURLY WIND SPEED AND STRESS

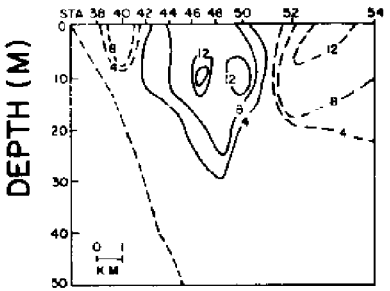
DATE: 6/13

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	2.17	270	10	0		2.11	182	0	8		2.52	214	- 1	3	
1	1.14	212	1	2		1.68	175	0	6		2.59	151	-17	8	
2	1.41	174	0	3		1.90	126	- 4	4		1.49	099	-12	6	
3	1.43	150	- 1	3		2.66	135	- 7	8		3.34	052	-12	0	
4	2.30	133	- 5	6		2.56	127	- 8	7		3.96	075	-12	0	
5	3.29	134	-11	12		2.94	069	-12	- 4		2.58	088	- 8	-14	
6	3.16	135	-10	11		1.82	067	- 4	- 1		2.63	098	- 1	3	
7	2.90	151	- 5	11		2.65	077	-10	- 1		2.50	095	- 7	9	
8	1.22	169	0	3		2.30	126	- 6	6		1.86	110	- 4	2	
9	2.18	210	4	7		1.98	075	- 5	- 1		2.91	070	-15	0	
10	1.17	193	2	4		2.46	098	- 9	1		3.44	085	-10	- 2	
11	1.58	119	- 2	2		1.86	156	- 1	5		2.92	087	-16	- 3	
12	1.84	121	- 4	3		1.60	118	- 3	2		2.95	073	-13	- 2	
13	2.52	091	- 9	0		2.52	072	- 8	- 2		3.18	066	-19	0	
14	2.90	089	-12	0		2.64	050	- 8	- 6		3.68	069	-15	- 9	
15	2.79	121	- 9	6		3.82	075	-21	- 5		3.91	070	-20	- 2	
16	2.52	105	- 9	3		4.08	100	-25	- 4		4.38	074	-21	- 1	
17	2.24	100	- 7	1		4.36	107	-29	9		4.51	084	-16	1	
18	2.43	065	- 7	- 3		3.45	086	-18	0		3.91	109	-28	1	
19	2.77	047	- 8	- 7		3.37	082	-17	- 2		---	---	---	---	
20	2.84	058	-10	- 5		3.31	106	-15	4		2.96	095	-27	0	
21	2.63	042	- 6	- 7		3.34	076	-16	- 3		3.36	082	-26	- 1	
22	2.49	044	- 6	- 6		3.48	109	-17	6		3.47	105	-23	- 2	
23	2.53	082	- 9	0		3.00	109	-12	5		3.05	087	-20	- 2	
AVER			- 4.7	2.0	5.1			-12	2	12			-16	- 1	16

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY

DATE: 6/14

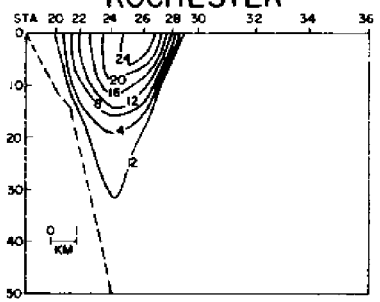
OLCOTT



OSHAWA

no data

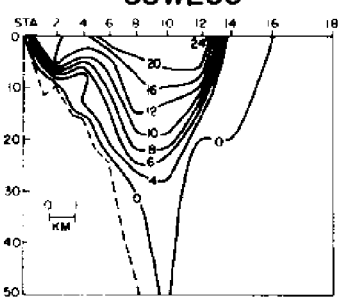
ROCHESTER



PRESQU'ILE

no data

OSWEGO



DAILY LONGSHORE VELOCITY TRANSPORT (u)

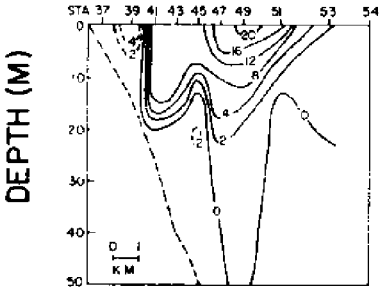
(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	1.55	0.0	1.55
ROCH. - 1	0.92	0.0	0.92
2	0.57	0.0	0.57^3
OLCOTT - 1	1.01	-0.82	0.18_5
2	1.33	0.0	1.33^5
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY

DATE: 6/14

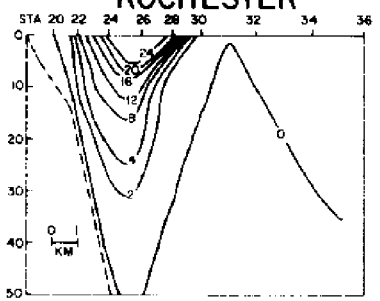
OLCOTT



OSHAWA

no data

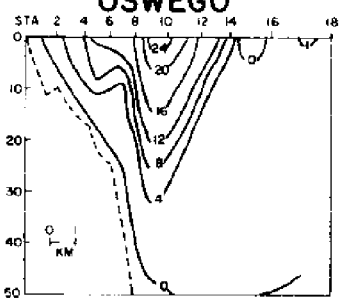
ROCHESTER



PRESQU'ILE

no data

OSWEGO



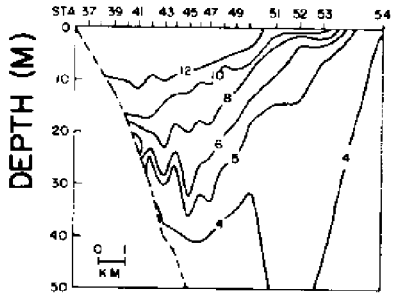
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	1.40	-0.01	1.40
ROCH. - 1	0.85	-0.01	0.85
2	0.28	0.0	0.28^3
OLCOTT - 1	1.02	-0.06	0.96
2	0.20	-0.04	0.16^5
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

CROSS SECTIONS OF TEMPERATURE

DATE: 6/14

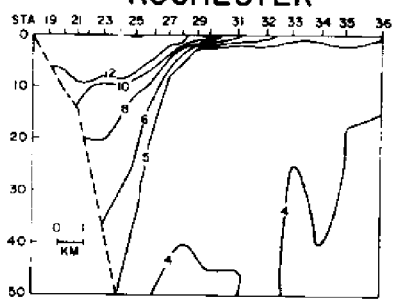
OLCOTT



OSHAWA

no data

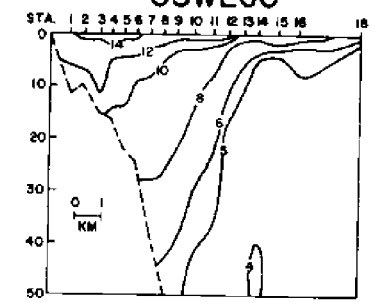
ROCHESTER



PRESQU'ILE

no data

OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE		POS	NEG	TOT
OSWEGO		0.15	0.01	0.15
ROCH. -	1	0.07	0.01	0.08
	2	0.29	0.0	0.29^3
OLCOTT -	1	-0.01	-0.76	-0.78_5
	2	1.13	0.04	1.17^5
OSHAWA		---	---	---
PRESQU'ILE		---	---	---

DATE: 6/14

HOURLY WIND SPEED AND STRESS

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	2.20	047	- 4	- 4	
1	1.78	080	- 5	0	
2	2.42	103	- 8	2	
3	2.06	114	- 6	3	
4	1.53	138	- 2	3	
5	2.16	162	- 1	7	
6	2.73	188	2	12	
7	3.56	205	8	17	
8	4.79	207	16	32	
9	5.03	219	24	30	
10	4.23	212	14	24	
11	4.81	218	22	28	
12	4.27	208	13	25	
13	4.41	205	12	27	
14	4.30	201	10	27	
15	3.19	194	4	18	
16	3.40	180	0	18	
17	3.12	170	- 2	15	
18	2.34	192	- 2	8	
19	3.57	158	- 6	18	
20	3.33	168	- 3	16	
21	3.15	201	5	14	
22	3.78	196	6	21	
23	3.80	201	8	20	
AVER			4.5	15.9	16.5

BUOY 10 (ROCHESTER & PRESQU'ILE)

	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
	2.23	095	- 7	- 1	
	3.45	094	-17	1	
	2.69	121	- 8	6	
	3.18	138	- 9	11	
	2.90	148	- 6	11	
	2.66	146	- 5	9	
	3.20	146	- 8	13	
	2.65	159	- 3	11	
	2.96	173	- 1	13	
	1.53	190	0	5	
	1.37	243	3	2	
	1.84	192	1	5	
	2.78	170	- 1	12	
	3.47	164	- 4	18	
	3.32	155	- 6	15	
	3.59	148	- 9	17	
	4.25	149	---	---	
	---	---	---	---	
	2.74	139	- 5	8	
	2.99	145	- 7	11	
	3.65	154	- 8	18	
	3.20	153	- 6	14	
	2.73	143	- 6	9	
	3.32	146	- 8	14	
			- 7	11	13

BUOY 5 (OLCOTT & OSHAWA)

	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
	3.18	119	-23	0	
	3.52	131	-14	5	
	3.91	127	-11	- 1	
	2.27	104	- 7	0	
	2.43	070	3	- 2	
	2.50	107	3	- 2	
	0.88	074	1	0	
	1.10	045	4	- 4	
	2.21	141	0	0	
	1.87	139	- 1	0	
	2.44	171	- 3	1	
	0.38	156	- 5	0	
	1.40	072	-13	1	
	2.35	082	- 7	- 1	
	2.76	095	0	0	
	2.06	092	14	13	
	2.20	082	14	13	
	2.01	078	21	14	
	2.40	085	22	9	
	2.95	114	23	3	
	2.82	124	21	28	
	2.81	109	33	13	
	2.90	111	39	37	
	1.59	187	34	28	8
			6	6	

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 6/15

OLCOTT

DEPTH (M)

no data

OSHAWA

no data

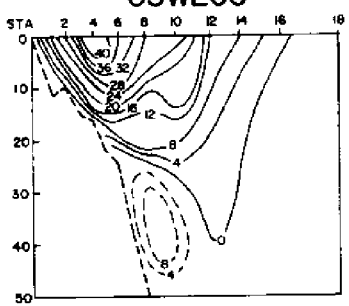
ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO



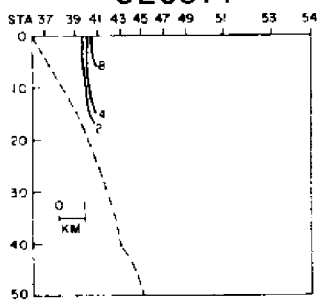
DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	2.47	-0.13	2.34^8
ROCHESTER	---	---	---
OLCOTT	0.60	0.0	0.60^3
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 6/15

OLCOTT



DEPTH (M)

OSHAWA

no data

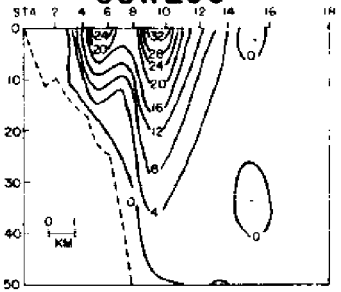
ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO



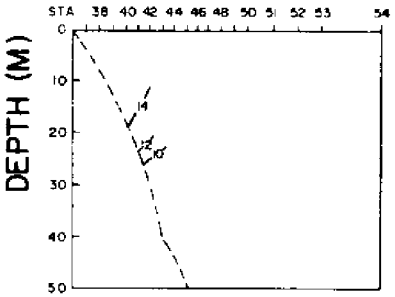
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	1.67	0.0	1.67^8
ROCHESTER	---	---	---
OLCOTT	0.12	-0.01	0.11^3
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

CROSS SECTIONS OF TEMPERATURE

DATE: 6/15

OLCOTT



OSHAWA

no data

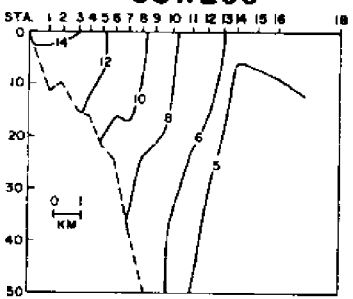
ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.80	-0.13	0.68^8
ROCHESTER	---	---	---
OLCOTT	0.48	0.01	0.49^3
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

DATE: 6/15

HOURLY WIND SPEED AND STRESS

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	4.74	203	14	33	
1	6.55	205	29	64	
2	6.12	195	15	56	
3	6.91	200	24	67	
4	6.95	216	43	59	
5	7.51	196	23	84	
6	7.70	200	32	87	
7	7.73	210	46	78	
8	6.15	207	36	70	
9	8.28	200	36	98	
10	8.22	207	47	95	
11	7.30	213	51	80	
12	7.89	204	40	89	
13	8.29	209	51	93	
14	7.82	200	---	---	
15	---	---	---	---	
16	---	---	---	---	
17	4.68	262	43	27	
18	4.98	255	38	9	
19	4.80	264	36	3	
20	5.14	268	44	0	
21	5.24	281	48	-12	
22	4.31	250	27	10	
23	4.46	245	28	14	
AVER			35.8	52.6	63.6

BUOY 10 (ROCHESTER & PRESQU'ILE)

	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
	2.97	160	- 4	13	
	2.84	180	0	13	
	4.04	193	6	25	
	5.31	187	5	42	
	5.35	192	9	43	
	5.50	183	2	46	
	5.14	197	13	42	
	6.01	183	3	55	
	6.26	186	6	63	
	6.92	193	16	71	
	6.46	193	14	62	
	6.15	186	6	59	
	6.37	197	18	60	
	6.49	183	4	67	
	5.83	195	14	54	
	5.26	223	29	32	
	5.07	218	26	32	
	5.39	252	45	15	
	4.16	272	28	0	
	5.34	291	44	-16	
	4.91	294	37	-16	
	2.74	228	10	14	
	4.37	242	27	14	
	4.84	267	36	2	
			16	33	37

BUOY 5 (OLCOTT & OSHAWA)

	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
	4.11	215	7	34	
	4.04	208	14	27	
	3.92	210	24	33	
	3.88	194	16	33	
	4.98	222	27	34	
	5.65	217	44	50	
	5.79	218	59	32	
	5.88	207	54	44	
	6.26	219	20	41	
	6.21	216	41	51	
	6.05	217	60	44	
	6.45	210	43	63	
	6.61	213	55	60	
	6.59	213	59	67	
	7.21	217	93	66	
	7.01	232	101	67	
	7.25	252	82	41	
	6.36	249	76	25	
	6.24	251	37	-18	
	5.27	285	69	-28	
	4.08	276	13	- 7	
	4.06	260	18	6	
	3.82	239	18	6	
	3.60	255	20	8	
			44	32	54

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 6/16

OLCOTT

DEPTH (M)

no data

OSHAWA

no data

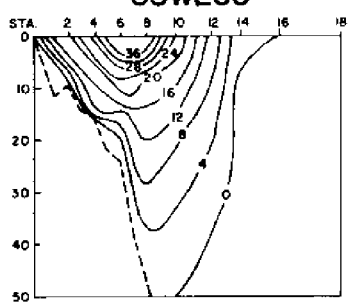
ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO



CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 6/16

OLCOTT

DEPTH (M)

no data

OSHAWA

no data

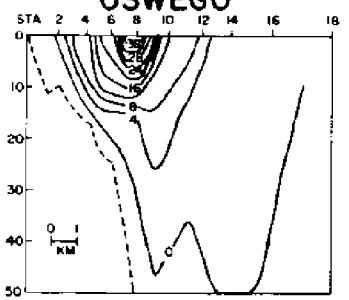
ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO



CROSS SECTIONS OF TEMPERATURE

DATE: 6/16

DEPTH (M)

OLCOTT

no data

OSHAWA

no data

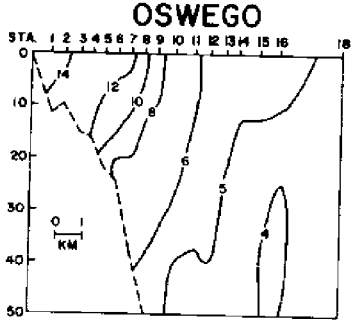
ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO



SECTION III

PLOTS: CROSS-SECTIONS OF DAILY MEASURED CURRENT VELOCITY, DAILY BAROCLINIC GEOSTROPHIC VELOCITY AND TEMPERATURE

TABLES: DAILY TRANSPORT

HOURLY WIND VELOCITY AND STRESS

ALERT 2

JULY 15 - AUGUST 15, 1972

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 7/15

OLCOTT

OSHAWA

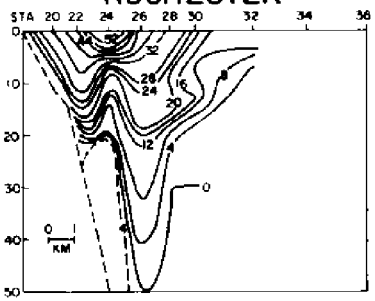
DEPTH (M)

no data

no data

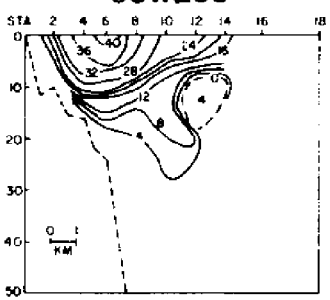
ROCHESTER

PRESQU'ILE



no data

OSWEGO



DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	2.33	-0.02	2.31^7
2	1.97	-0.20	1.77
ROCH. - 1	0.61	0.0	0.61^2
2	3.69	-0.14	3.55
OLCOTT	0.36	0.0	0.36^2
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 7/15

OLCOTT

OSHAWA

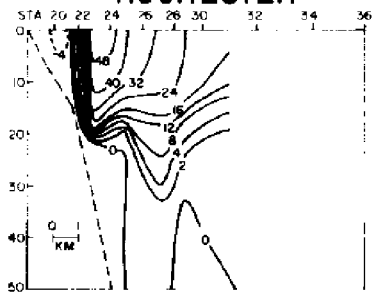
DEPTH (M)

no data

no data

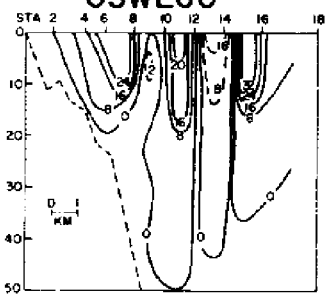
ROCHESTER

PRESQU'ILE



no data

OSWEGO



DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	0.81	-0.04	0.77^7
2	1.93	-0.01	1.92^9
ROCH. - 1	0.0	-0.12	-0.12^2
2	3.19	-0.04	3.15^7
OLCOTT	0.0	-0.03	-0.03^2
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

CROSS SECTIONS OF TEMPERATURE

DATE: 7/15

OLCOTT

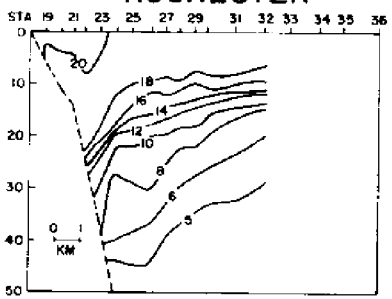
DEPTH (M)

no data

OSHAWA

no data

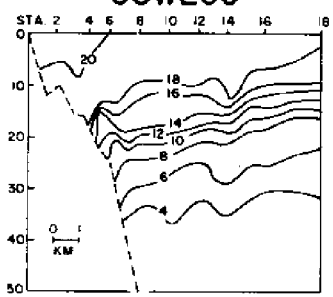
ROCHESTER



PRESQU'ILE

no data

OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	1.52	0.02	1.54^7
2	0.04	-0.19	-0.15
ROCH. - 1	0.61	0.12	0.73^2
2	0.50	-0.10	0.40
OLCOTT	0.36	0.03	0.38^2
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

DATE: 7/15

HOURLY WIND SPEED AND STRESS

BUOY 5 (OLCOTT & OSHAWA)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	3.49	198	8	16	
1	4.53	200	21	33	
2	5.32	213	27	32	
3	4.92	197	16	29	
4	4.64	190	8	31	
5	5.80	183	52	38	
6	6.30	208	30	71	
7	7.22	210	52	73	
8	7.34	204	66	102	
9	7.49	191	63	74	
10	7.36	212	53	72	
11	6.08	208	34	70	
12	7.06	206	73	65	
13	6.50	223	88	70	
14	8.34	218	84	109	
15	8.05	233	154	46	
16	6.97	238	136	80	
17	6.69	246	120	48	
18	7.23	225	62	46	
19	7.04	216	92	23	
20	6.35	237	80	4	
21	4.21	236	57	18	
22	2.97	248	68	20	
23	5.87	294	61	-34	
AVER			63	47	29

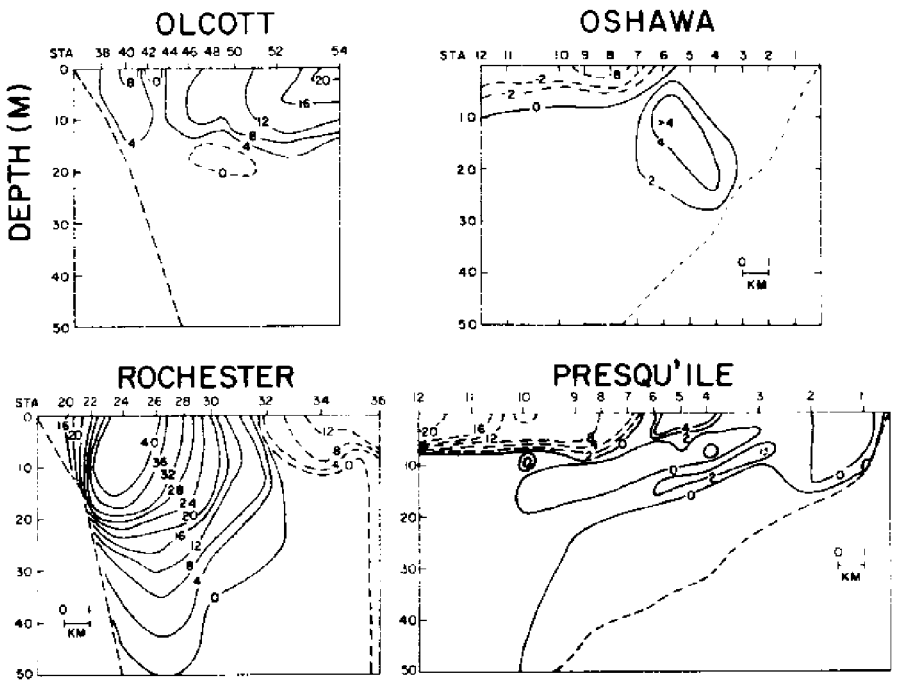
BUOY 10 (ROCHESTER & PRESQU'ILE)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	3.43	175	- 1	18	
1	4.24	188	5	28	
2	4.92	204	16	35	
3	5.37	207	20	41	
4	5.62	164	-12	46	
5	6.03	199	18	52	
6	6.38	201	24	60	
7	7.84	204	37	86	
8	7.09	206	35	71	
9	7.01	211	41	67	
10	6.38	208	34	65	
11	7.65	197	25	84	
12	7.78	191	17	88	
13	6.38	185	6	69	
14	6.18	214	35	53	
15	5.28	218	28	39	
16	7.30	237	68	44	
17	5.90	278	54	- 5	
18	6.15	250	53	19	
19	5.02	248	39	16	
20	4.91	227	29	28	
21	3.93	222	15	17	
22	1.86	226	6	5	
23	2.77	228	9	9	
AVER			25	43	50

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	5.02	186	3	38	
1	5.74	188	7	51	
2	5.91	190	9	53	
3	7.35	207	37	73	
4	7.15	202	30	72	
5	7.40	222	60	64	
6	9.16	204	51	113	
7	8.33	198	32	100	
8	7.92	213	53	82	
9	8.45	207	49	96	
10	8.84	200	41	110	
11	8.88	194	29	115	
12	8.96	188	18	121	
13	8.20	209	52	93	
14	8.68	195	29	108	
15	7.86	203	36	87	
16	7.02	211	37	64	
17	6.74	232	57	43	
18	6.01	251	52	18	
19	4.29	251	28	10	
20	4.95	239	33	23	
21	5.81	247	47	21	
22	3.49	200	7	18	
23	3.21	229	12	10	
AVER			33.7	66.0	74.1

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 7/16

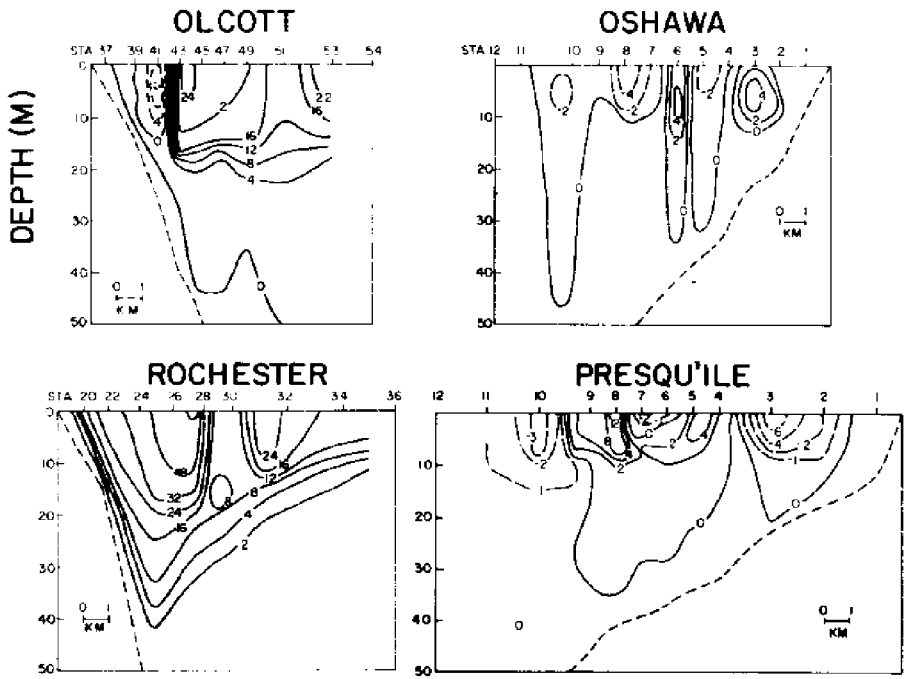


DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	2.50	0.0	2.50
2	3.44	-0.01	3.43
ROCH. - 1	5.20	-0.46	4.75
2	5.23	-0.05	5.18
OLCOTT - 1	1.50	-0.02	1.48
2	1.34	-0.05	1.30^8
OSHAWA	0.25	-0.16	0.08^7
PRESQU'ILE	0.21	-0.62	-0.40

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 7/16



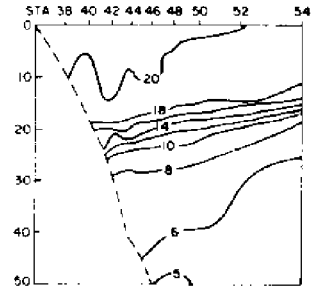
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	3.48	-0.01	3.47
2	2.23	-0.02	2.21
ROCH. - 1	5.75	0.0	5.75
2	5.05	0.0	5.05
OLCOTT - 1	2.54	-0.05	2.49^8
2	1.54	-0.14	1.39^8
OSHAWA	0.33	-0.19	0.14^7
PRESQU'ILE	0.38	-0.33	0.06

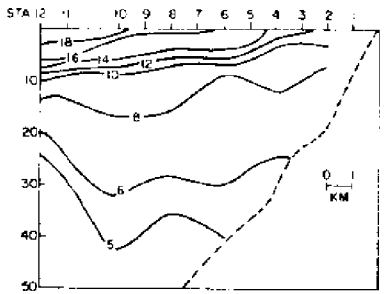
CROSS SECTIONS OF TEMPERATURE

DATE: 7/16

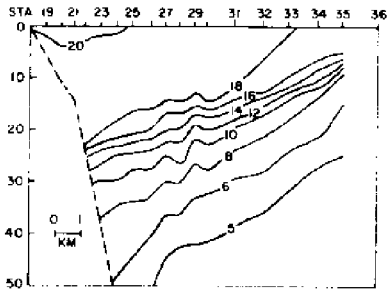
OLCOTT



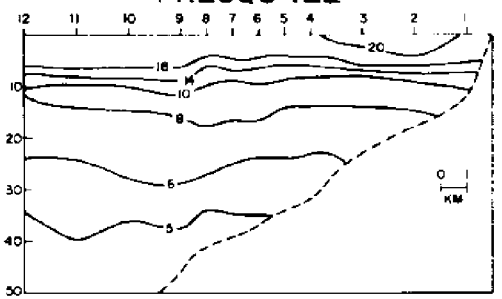
OSHAWA



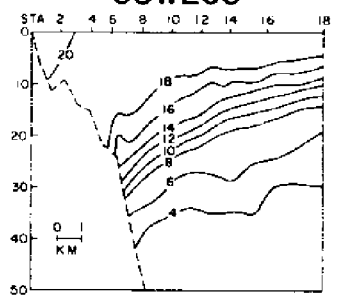
ROCHESTER



PRESQU'ILE



OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

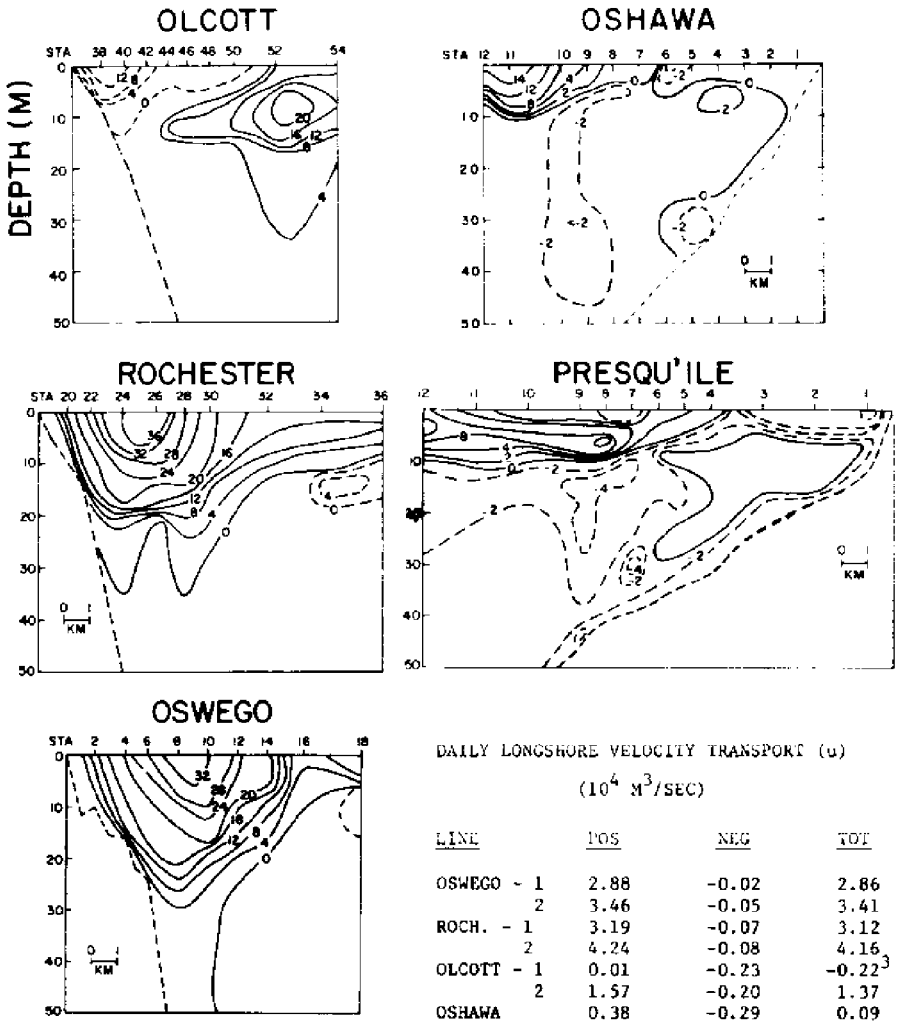
LINE	POS	NEG	TOT
OSWEGO - 1	-0.98	0.01	-0.97
2	1.21	0.01	1.22
ROCH. - 1	-1.55	-0.46	-1.00
2	0.18	-0.05	0.13
OLCOTT - 1	-1.04	0.03	-1.01
2	-0.20	0.09	-0.10
OSHAWA	-0.08	0.03	-0.06
PRESQU'ILE	-0.17	-0.29	-0.46

DATE: 7/16

HOURLY WIND SPEED AND STRESS

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	2.21	197	3	9		4.99	309	29	-23						
1	3.76	320	17	-17		3.03	267	17	0						
2	1.90	217	5	7		4.68	271	34	0						
3	3.14	174	-1	17		2.72	261	13	3						
4	4.92	182	2	37		4.63	263	36	5						
5	3.34	219	13	14		4.06	268	27	1						
6	3.69	241	19	11		2.44	317	8	-7						
7	3.76	243	19	10		2.69	277	13	-1						
8	3.67	260	20	4		3.87	284	22	-4						
9	3.99	278	23	-2		4.32	296	26	-12						
10	4.61	261	32	5		4.46	283	30	-6						
11	4.88	276	36	-3		3.49	265	19	1						
12	4.56	268	32	1		4.60	269	34	1						
13	5.39	263	44	6		3.75	269	27	0						
14	4.81	262	36	5		3.01	275	15	-1						
15	3.73	277	21	-2		2.81	271	12	0						
16	3.01	254	14	4		1.42	245	4	2						
17	2.30	266	9	1		0.96	228	2	1						
18	1.76	245	5	2		0.87	329	1	0						
19	1.01	209	1	2		1.06	355	0	-1						
20	0.36	197	0	0		0.82	005	0	0						
21	0.13	160	0	0		1.86	107	-4	2						
22	2.18	168	0	7		2.35	141	-4	7						
23	2.59	168	-2	10		2.00	148	-2	5						
AVER			14.5	5.3	15.5			15	-2	15			7	-1	7

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 7/17

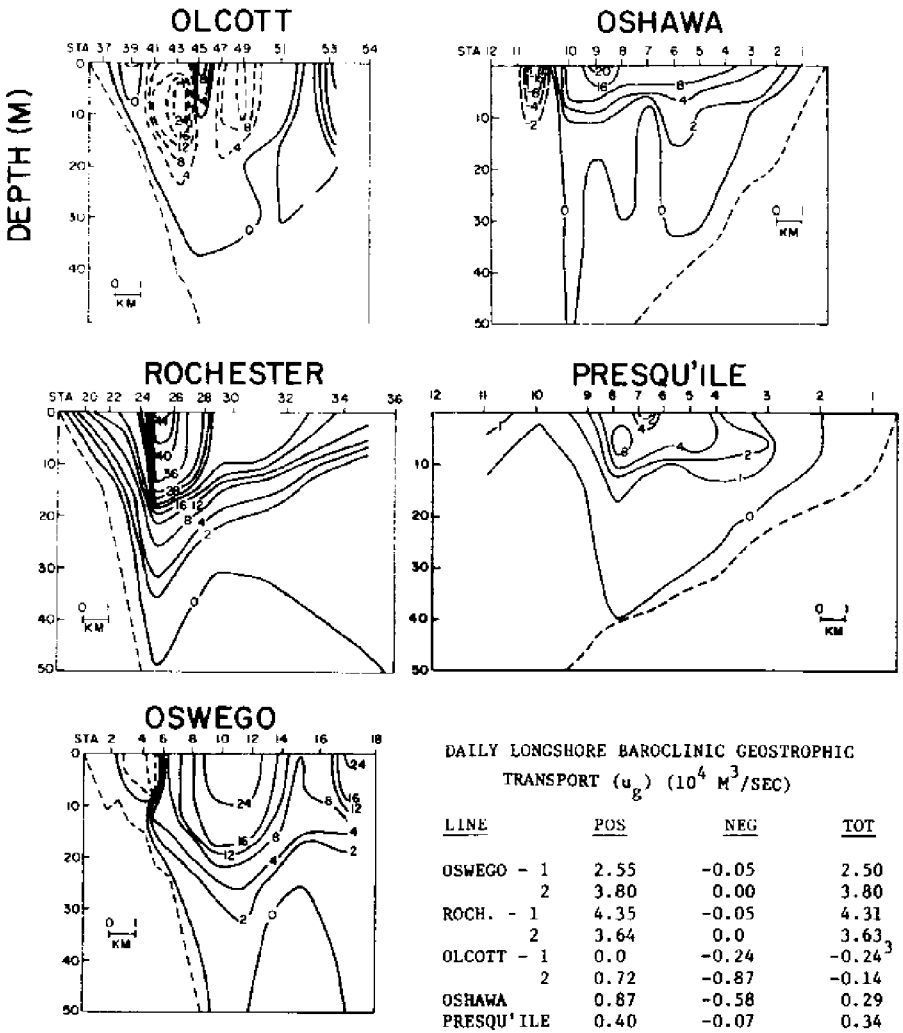


DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	2.88	-0.02	2.86
2	3.46	-0.05	3.41
ROCH. - 1	3.19	-0.07	3.12
2	4.24	-0.08	4.16
OLCOTT - 1	0.01	-0.23	-0.22[3]
2	1.57	-0.20	1.37
OSHAWA	0.38	-0.29	0.09
PRESQU'ILE	0.50	-0.80	-0.31

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 7/17

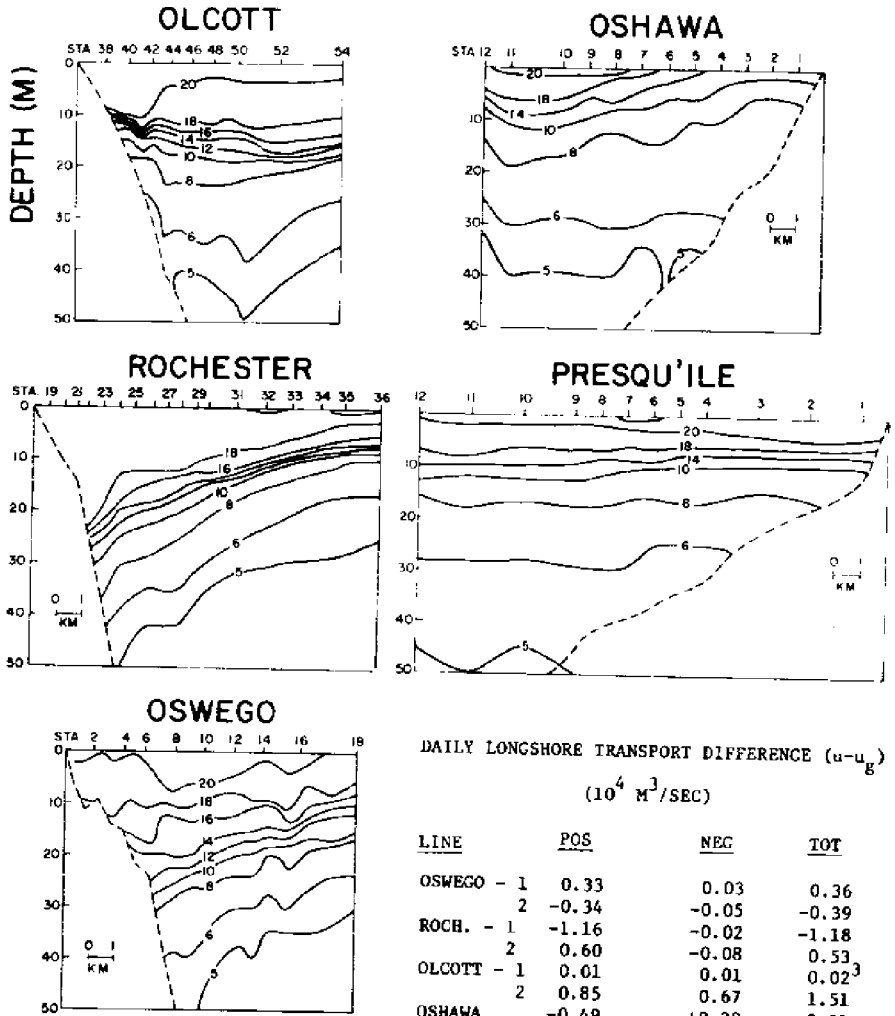


DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	2.55	-0.05	2.50
2	3.80	0.00	3.80
ROCH. - 1	4.35	-0.05	4.31
2	3.64	0.0	3.63[3]
OLCOTT - 1	0.0	-0.24	-0.24[3]
2	0.72	-0.87	-0.14
OSHAWA	0.87	-0.58	0.29
PRESQU'ILE	0.40	-0.07	0.34

CROSS SECTIONS OF TEMPERATURE

DATE: 7/17



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

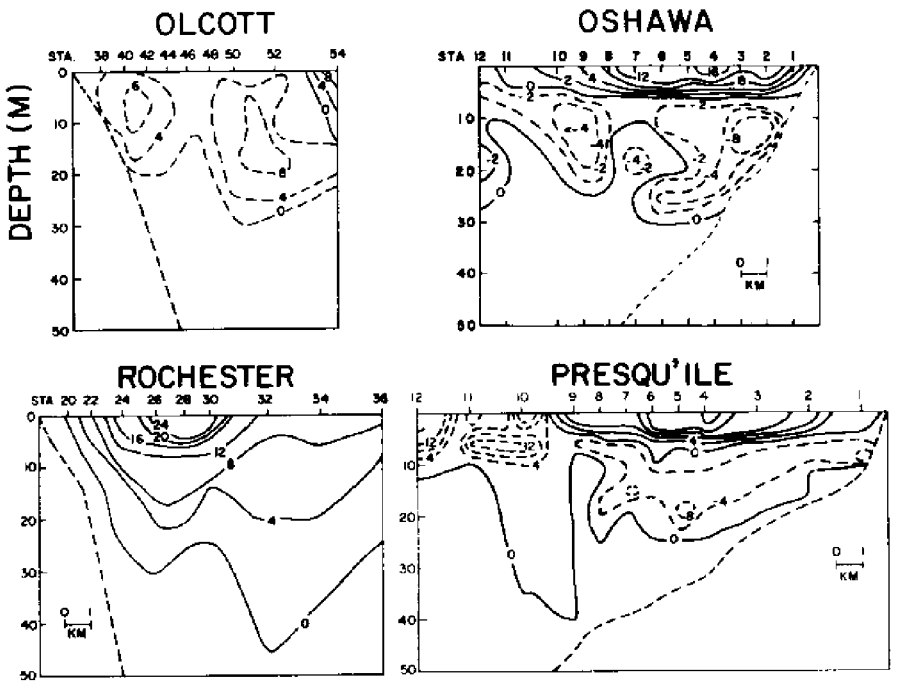
LINE	POS	NEG	TOT
OSWEGO - 1	0.33	0.03	0.36
2	-0.34	-0.05	-0.39
ROCH. - 1	-1.16	-0.02	-1.18
2	0.60	-0.08	0.53
OLCOTT - 1	0.01	0.01	0.02
2	0.85	0.67	1.51
OSHAWA	-0.49	+0.29	-0.21
PRESQU'ILE	0.10	-0.73	-0.64

HOURLY WIND SPEED AND STRESS

DATE: 7/17

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	3.27	168	- 2	16		3.61	171	- 2	19		2.94	174	-12	0	
1	3.13	167	- 2	14		3.28	191	3	16		2.73	162	-10	16	
2	3.27	182	0	16		3.58	205	8	17		2.37	147	- 1	10	
3	2.84	190	2	12		3.03	200	5	13		1.69	108	22	20	
4	2.56	203	4	9		2.33	205	4	7		1.61	188	19	20	
5	2.84	224	8	9		2.52	223	6	7		2.52	247	17	7	
6	2.43	228	7	6		3.09	211	7	12		3.02	270	19	9	
7	2.16	236	6	4		2.90	235	11	7		1.84	316	18	0	
8	3.34	277	17	- 1		2.62	260	10	2		1.82	339	15	- 4	
9	3.39	269	17	0		2.63	264	10	1		1.51	319	11	0	
10	3.09	263	14	2		2.73	271	11	0		1.64	246	6	1	
11	2.41	280	9	0		2.45	276	9	0		0.59	244	3	0	
12	1.90	263	5	1		1.74	315	3	- 3		0.47	168	7	3	
13	1.66	246	4	2		1.85	253	6	2		2.22	171	6	1	
14	2.10	243	6	3		2.54	255	10	3		2.67	180	0	2	
15	2.34	247	8	3		1.81	279	5	0		2.41	219	0	0	
16	2.21	264	7	1		2.66	283	10	- 1		1.06	265	- 5	-11	
17	2.37	256	8	2		2.03	272	7	0		0.66	348	- 6	-13	
18	3.04	251	13	4		1.00	276	2	0		1.14	102	-15	-10	
19	2.72	257	11	2		0.20	196	0	0		2.49	098	-14	- 4	
20	2.04	258	6	1		1.09	106	- 3	1		3.03	106	-16	1	
21	1.15	258	2	0		2.37	111	- 9	4		3.08	109	-23	2	
22	0.25	309	0	0		1.65	066	- 3	- 1		3.27	116	-24	8	
23	0.67	073	0	0		2.49	091	-13	0		3.75	123	-27	20	3
AVER			6.3	4.4	7.7			4	4	6			- 1	3	

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 7/18

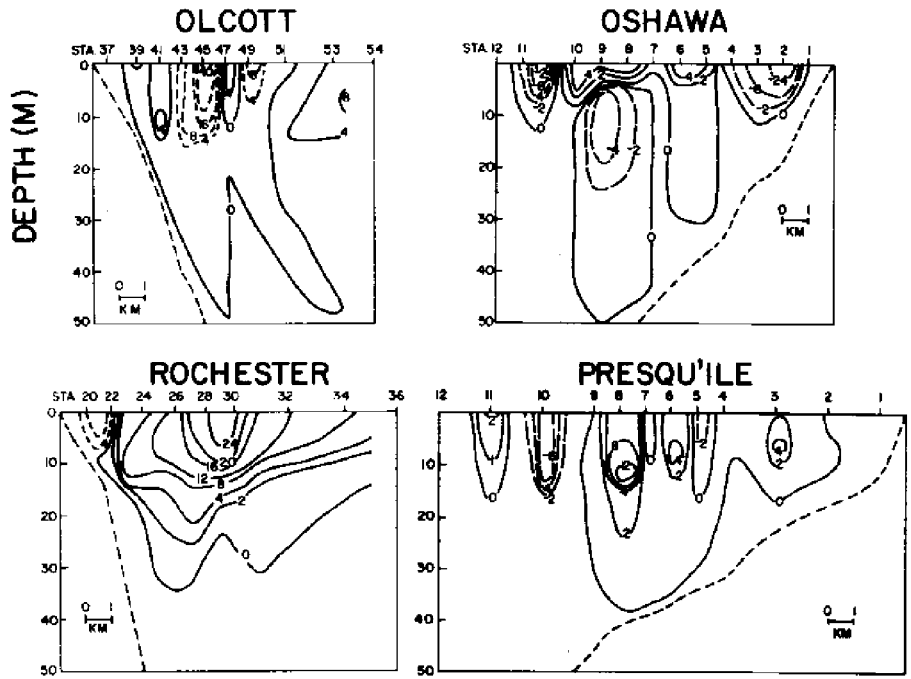


DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	3.02	0.0	3.02
2	2.51	-0.01	2.50
ROCH. - 1	2.08	-0.08	2.00
2	1.18	-0.16	1.02
OLCOTT - 1	0.13	-1.04	-0.91
2	0.12	-0.35	-0.22
OSHAWA	0.37	-0.52	-0.14
PRESQU'ILE	0.63	-1.04	-0.41

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 7/18

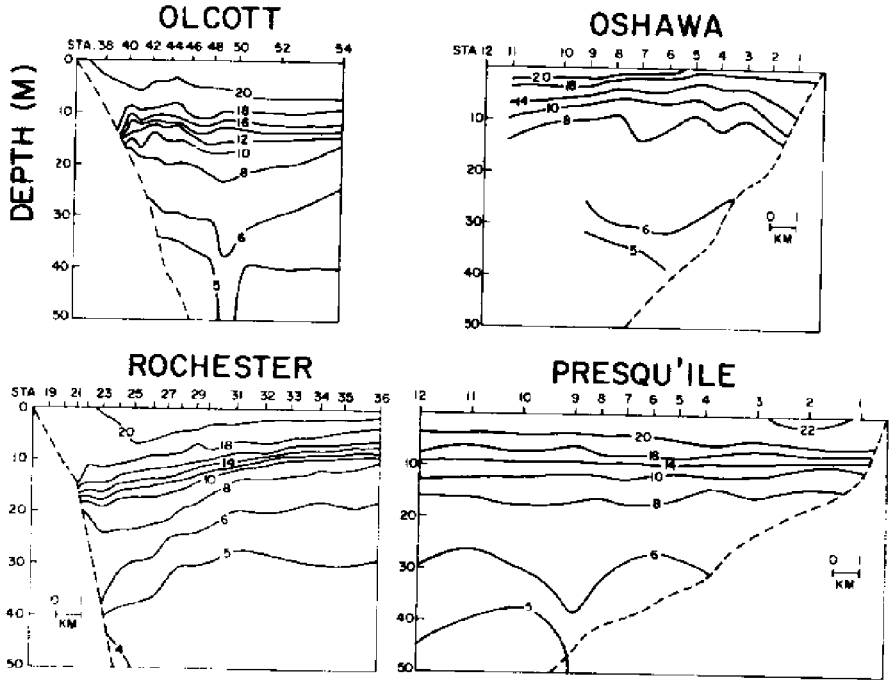


DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	2.60	-0.06	2.54
2	2.76	-0.08	2.68
ROCH. - 1	1.75	-0.10	1.65
2	2.00	-0.14	1.85
OLCOTT - 1	0.35	-0.65	-0.29
2	0.29	-0.90	-0.61
OSHAWA	0.22	-1.23	-1.02
PRESQU'ILE	0.60	-0.39	0.21

CROSS SECTIONS OF TEMPERATURE

DATE: 7/18



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

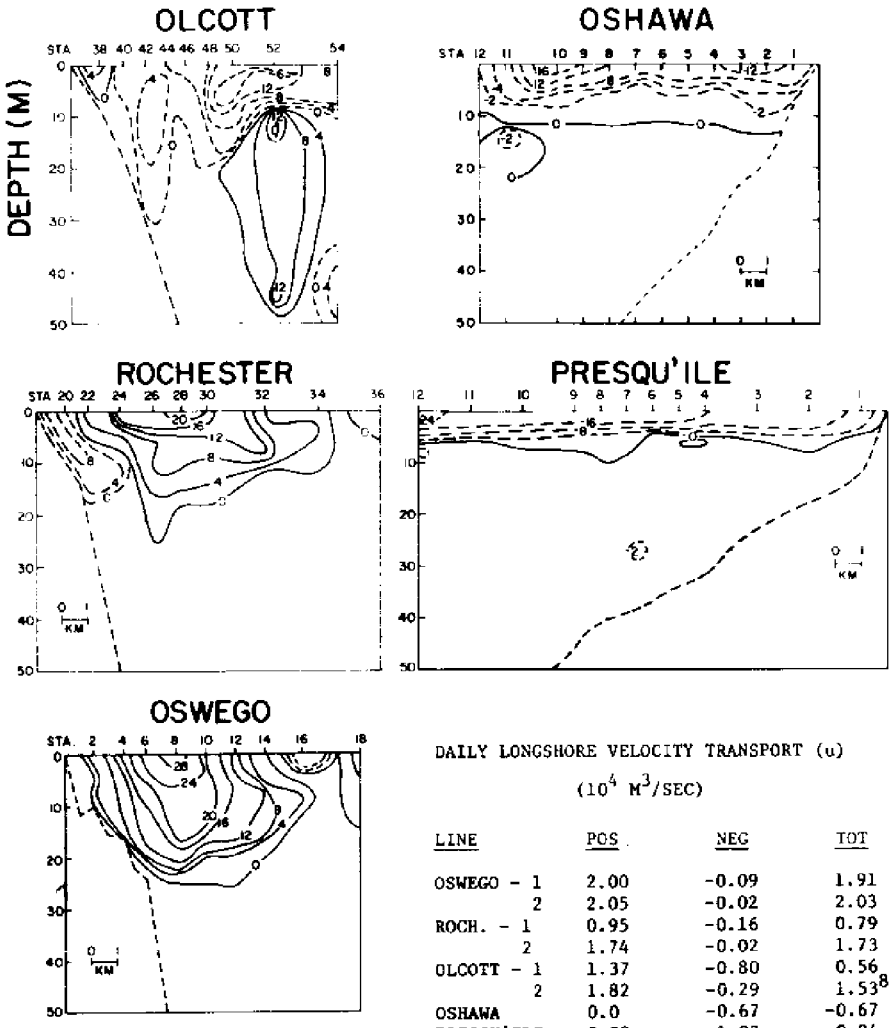
LINE	POS	NEG	TOT
OSWEGO - 1	0.42	0.06	0.48
2	-0.25	0.07	-0.18
ROCH. - 1	0.33	0.02	0.35
2	-0.82	-0.02	-0.84
OLCOTT - 1	-0.22	-0.39	-0.61
2	-0.17	0.55	0.38
OSHAWA	0.15	0.71	0.87
PRESQU'ILE	0.03	-0.65	-0.62

HOURLY WIND SPEED AND STRESS

DATE: 7/18

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	1.37	097	- 2	0		2.98	118	-10	6		4.30	128	-31	18	
1	2.10	126	- 4	4		3.34	132	-11	11		4.47	123	-29	17	
2	3.27	127	-11	9		3.17	130	-10	10		4.17	140	-15	10	
3	2.98	114	-11	5		3.01	137	- 8	10		3.99	136	-13	15	
4	2.98	133	- 9	9		3.52	145	-10	15		4.80	136	-21	11	
5	3.06	140	- 8	11		4.24	146	-14	22		4.56	140	-13	9	
6	3.69	144	-11	16		4.37	148	-14	25		3.02	090	- 6	6	
7	4.51	150	-14	27		4.58	155	-12	29		3.08	144	0	17	
8	4.55	170	- 5	30		4.90	162	-11	36		2.14	164	4	25	
9	5.43	175	- 3	44		4.24	193	7	31		3.83	203	9	21	
10	5.37	186	4	43		4.30	201	10	26		3.84	195	1	20	
11	5.34	163	-12	40		3.94	202	9	21		4.31	209	7	25	
12	5.29	168	- 8	41		4.31	205	12	25		4.04	200	8	18	
13	5.05	170	- 6	37		3.57	214	11	16		3.56	205	12	15	
14	4.43	184	2	31		3.20	183	1	17		3.21	201	8	13	
15	3.83	185	2	22		2.86	201	4	12		2.83	191	11	5	
16	3.03	177	0	15		2.83	186	2	12		1.93	181	13	6	
17	2.65	203	5	10		2.63	160	- 3	10		1.91	134	1	1	
18	2.35	196	2	8		2.18	152	- 3	7		1.82	177	5	0	
19	1.07	164	0	2		2.31	130	- 5	5		1.09	160	15	5	
20	0.54	124	0	0		3.03	142	- 7	11		2.04	148	12	3	
21	1.22	118	- 1	1		3.48	141	-11	14		2.64	130	9	2	
22	1.74	109	- 4	2		3.68	132	-14	13		2.38	222	3	2	
23	2.75	133	- 7	8		3.26	158	- 5	15	17	2.52	166	1	4	
AVER			- 4.2	17.3	17.8			- 5	17	17			- 1	11	11

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 7/19

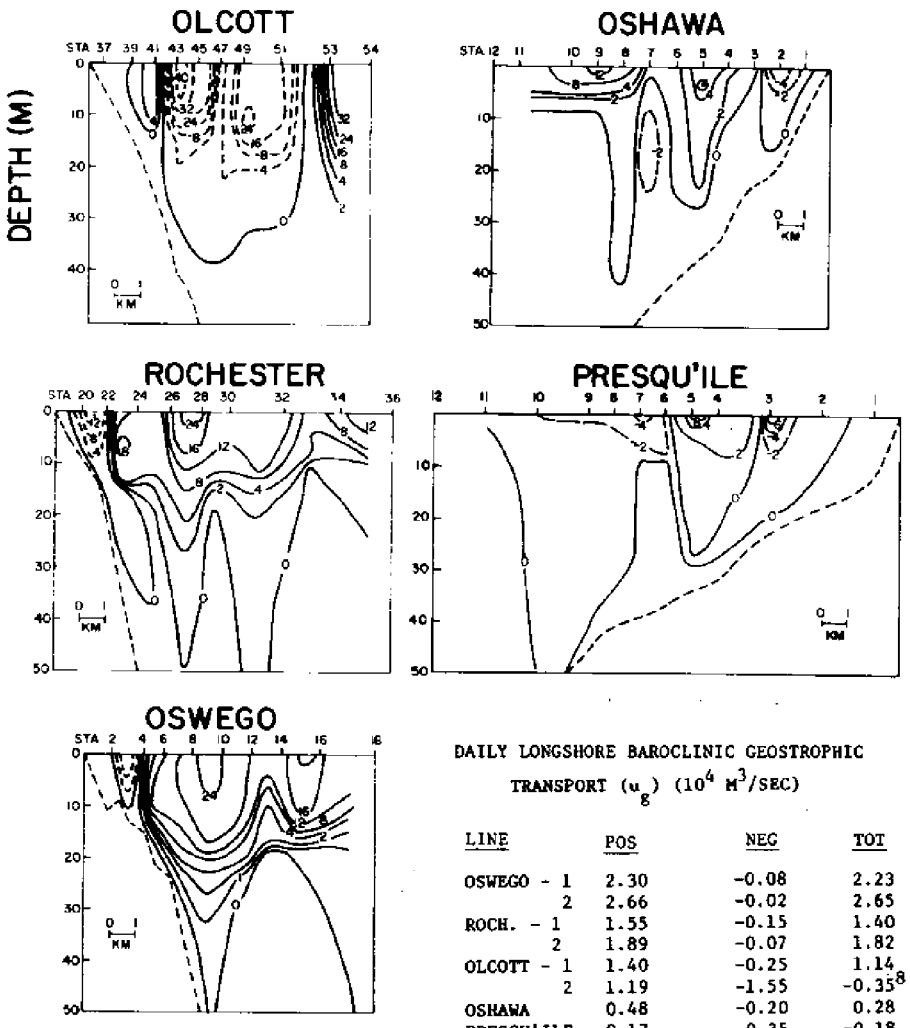


DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	2.00	-0.09	1.91
2	2.05	-0.02	2.03
ROCH. - 1	0.95	-0.16	0.79
2	1.74	-0.02	1.73
OLCOTT - 1	1.37	-0.80	0.56
2	1.82	-0.29	1.53
OSHAWA	0.0	-0.67	-0.67
PRESQU'ILE	0.08	-1.02	-0.94

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 7/19



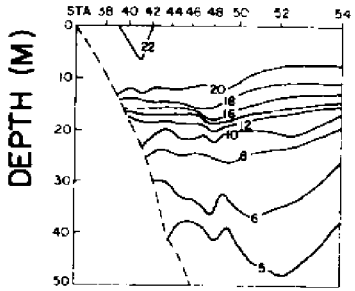
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	2.30	-0.08	2.23
2	2.66	-0.02	2.65
ROCH. - 1	1.55	-0.15	1.40
2	1.89	-0.07	1.82
OLCOTT - 1	1.40	-0.25	1.14
2	1.19	-1.55	-0.35
OSHAWA	0.48	-0.20	0.28
PRESQU'ILE	0.17	-0.35	-0.18

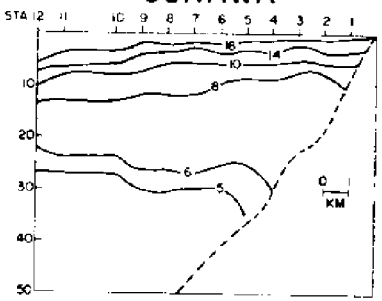
CROSS SECTIONS OF TEMPERATURE

DATE: 7/19

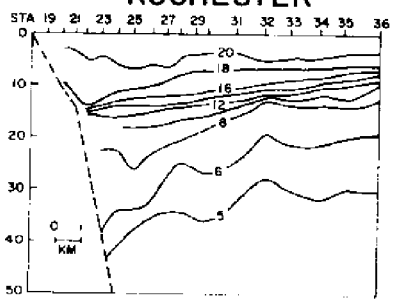
OLCOTT



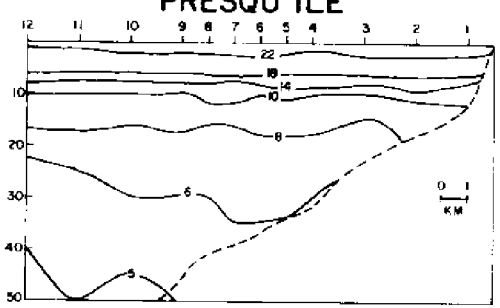
OSHAWA



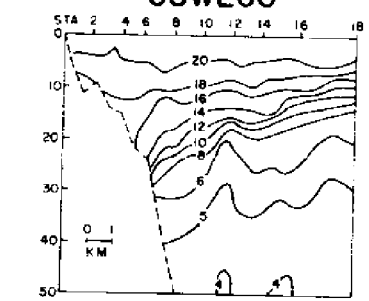
ROCHESTER



PRESQU'ILE



OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	-0.30	-0.01	-0.31
2	-0.61	0.0	-0.62
ROCH. - 1	-0.60	-0.01	-0.61
2	-0.15	0.05	-0.09
OLCOTT - 1	-0.03	-0.55	-0.58
2	0.63	1.26	1.88
OSHAWA	-0.48	-0.47	-0.95
PRESQU'ILE	-0.09	-0.67	-0.76

DATE: 7/19

HOURLY WIND SPEED AND STRESS

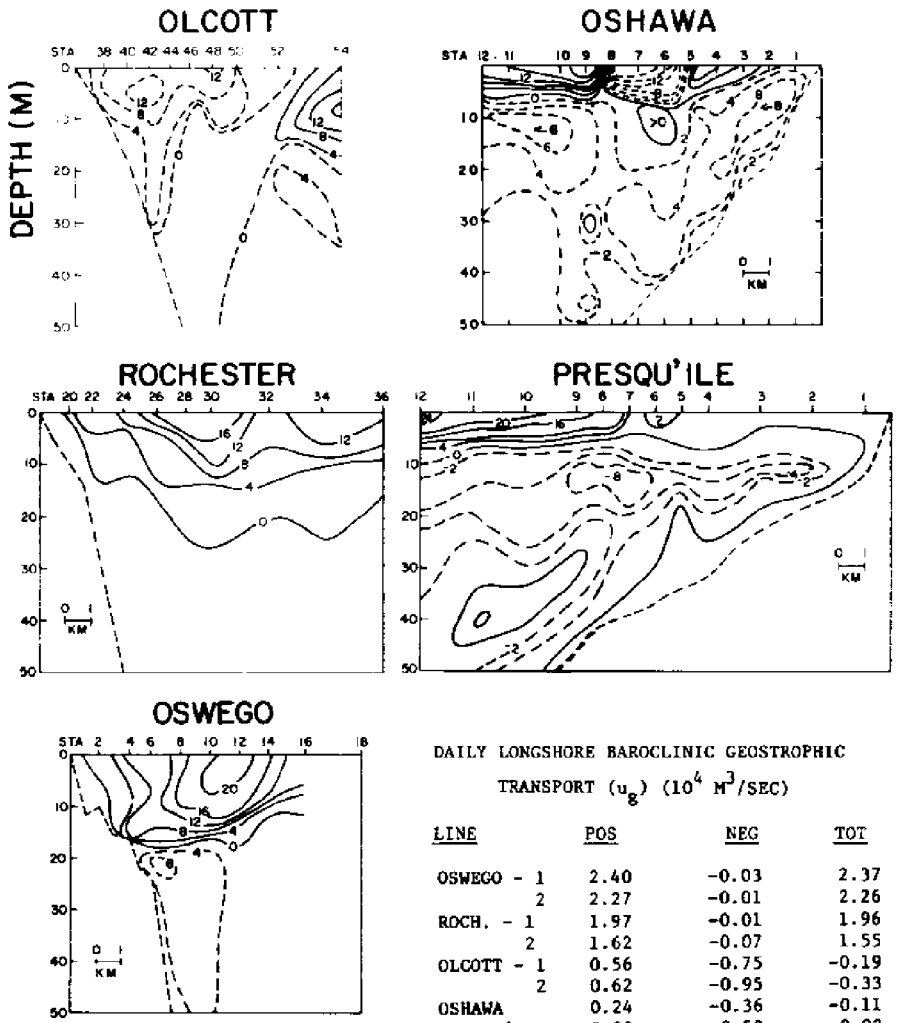
BUOY 10 (ROCHESTER & PRESQU'ILE) BUOY 5 (OLCOTT & OSHAWA)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	3.02	172	- 1	15		2.03	184	4	10	
1	2.36	197	2	8		3.97	193	9	27	
2	3.20	212	8	13		4.95	223	26	25	
3	3.81	230	17	14		4.63	235	26	42	
4	4.31	237	23	15		3.89	232	25	24	
5	4.68	242	29	15		4.02	245	24	0	
6	4.55	237	27	18		5.51	265	45	- 4	
7	4.24	268	29	2		7.07	240	44	-10	
8	4.71	296	31	-14		5.39	241	41	10	
9	5.10	283	42	- 9		4.42	263	21	9	
10	4.67	275	34	- 1		2.56	286	28	8	
11	4.22	264	29	2		3.23	254	24	9	
12	4.41	265	29	2		3.44	276	26	3	
13	3.71	280	21	- 2		3.56	267	20	- 8	
14	3.87	287	24	- 7		2.87	296	20	- 1	
15	2.50	280	12	- 1		1.15	305	13	- 4	
16	2.93	257	13	3		1.82	251	10	- 6	
17	2.98	279	13	- 1		2.73	257	6	- 3	
18	3.17	298	14	- 6		2.69	261	2	- 5	
19	3.26	290	15	- 4		2.26	274	0	- 5	
20	2.51	292	10	- 3		1.69	250	0	0	
21	2.43	288	8	- 2		1.25	276	0	0	
22	2.21	309	6	- 4		0.69	303	0	1	
23	1.64	301	4	- 2		0.61	269	0	0	
AVER			18	2	18			17	5	18

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	3.07	157	- 4	13	
1	3.36	176	0	17	
2	3.40	200	6	16	
3	3.34	218	10	13	
4	3.42	241	15	8	
5	2.04	272	8	0	
6	2.23	219	5	6	
7	2.05	278	8	- 1	
8	2.40	261	9	1	
9	2.85	258	13	2	
10	3.97	276	23	- 2	
11	5.50	272	46	0	
12	5.19	265	40	4	
13	5.44	297	39	-19	
14	4.37	288	27	- 8	
15	4.34	270	29	0	
16	3.22	274	16	0	
17	2.95	275	13	0	
18	2.95	256	13	3	
19	2.54	277	10	0	
20	2.88	292	11	- 4	
21	1.99	289	6	- 1	
22	2.53	280	10	- 1	
23	2.29	282	8	- 1	
AVER			15.0	1.9	15.2

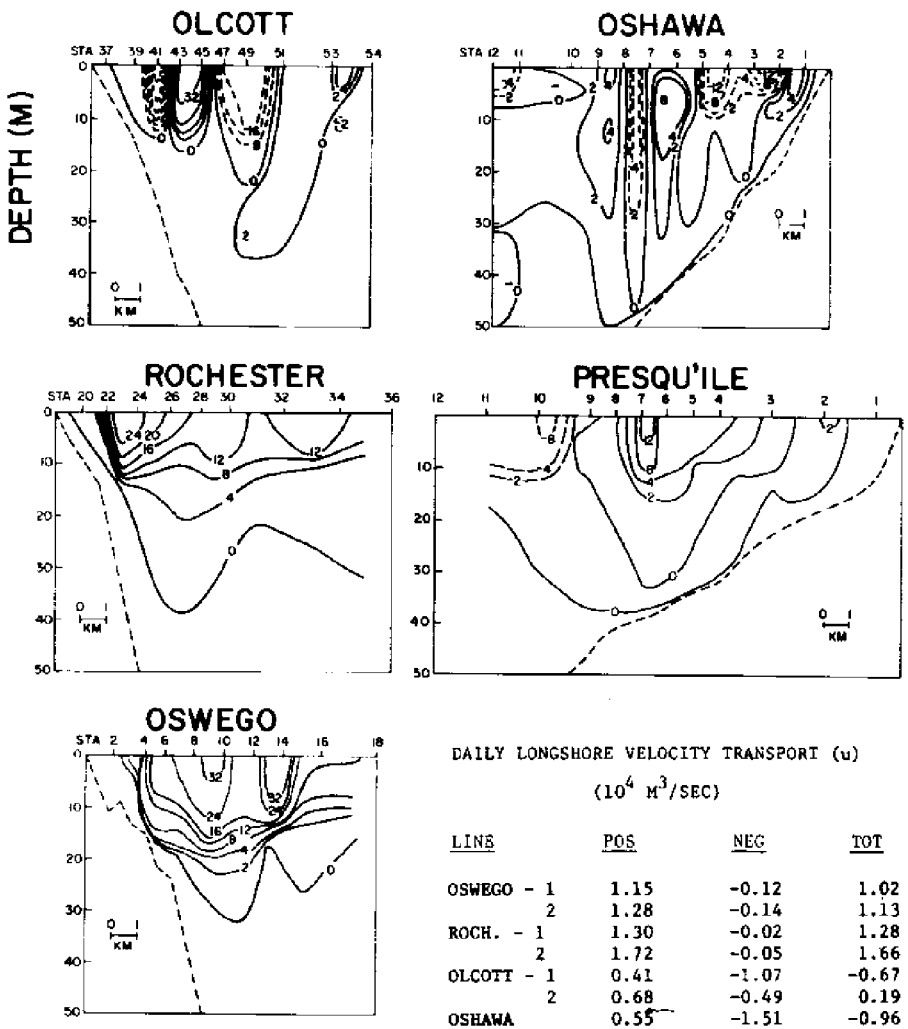
CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 7/20



DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	2.40	-0.03	2.37
2	2.27	-0.01	2.26
ROCH. - 1	1.97	-0.01	1.96
2	1.62	-0.07	1.55
OLCOTT - 1	0.56	-0.75	-0.19
2	0.62	-0.95	-0.33
OSHAWA	0.24	-0.36	-0.11
PRESQU'ILE	0.52	-0.50	0.02

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 7/20



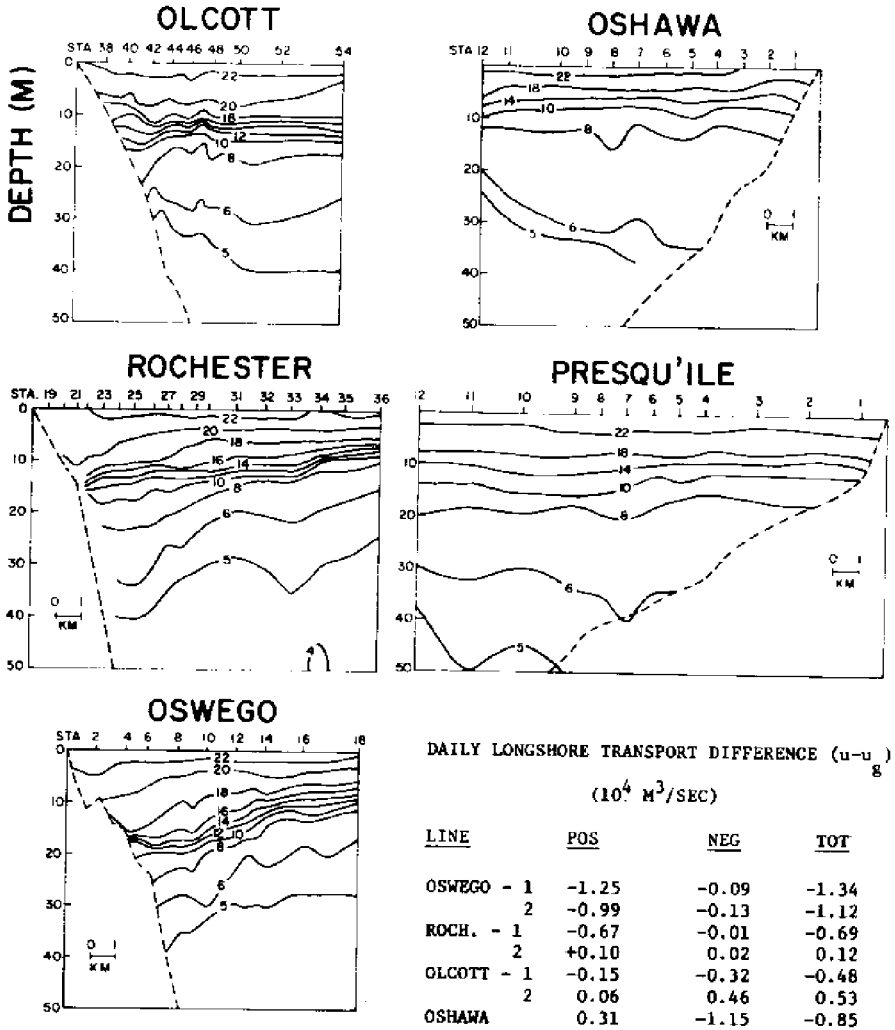
DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	1.15	-0.12	1.02
2	1.28	-0.14	1.13
ROCH. - 1	1.30	-0.02	1.28
2	1.72	-0.05	1.66
OLCOTT - 1	0.41	-1.07	-0.67
2	0.68	-0.49	0.19
OSHAWA	0.55	-1.51	-0.96
PRESQU'ILE	0.56	-1.22	-0.66

CROSS SECTIONS OF TEMPERATURE

DATE: 7/20



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

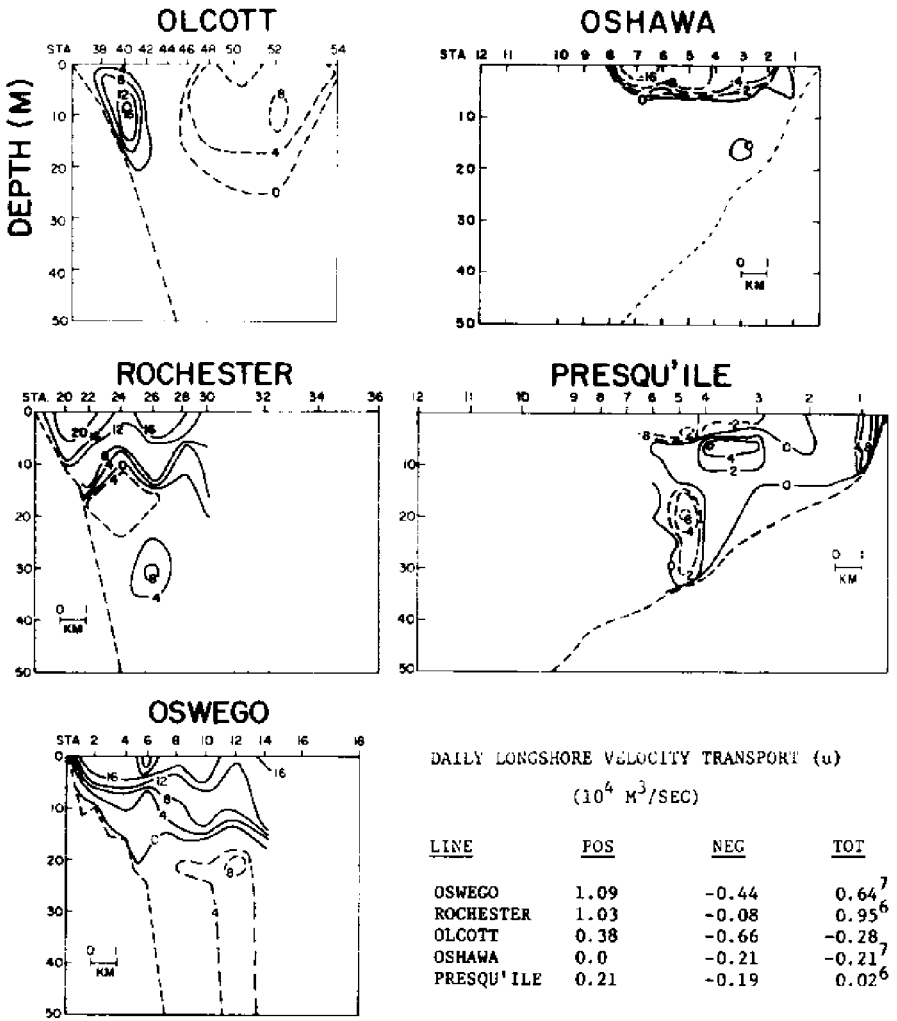
LINE	POS	NEG	TOT
OSWEGO - 1	-1.25	-0.09	-1.34
2	-0.99	-0.13	-1.12
ROCH. - 1	-0.67	-0.01	-0.69
2	+0.10	0.02	0.12
OLCOTT - 1	-0.15	-0.32	-0.48
2	0.06	0.46	0.53
OSHAWA	0.31	-1.15	-0.85
PRESQU'ILE	0.04	-0.72	-0.68

HOURLY WIND SPEED AND STRESS

DATE: 7/20

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	2.67	269	11	0		0.92	251	2	1		0.86	202	0	1	
1	2.06	267	7	0		0.89	260	1	0		0.71	184	- 5	0	
2	2.21	261	7	1		0.62	267	1	0		1.03	104	- 2	5	
3	1.74	216	3	4		0.48	341	0	0		0.99	090	- 5	3	
4	1.50	203	1	3		1.19	223	2	3		1.19	158	- 4	2	
5	1.51	246	3	1		1.20	211	1	2		0.52	088	- 2	5	
6	1.26	243	2	1		0.00	090	0	0		0.81	140	0	2	
7	1.66	219	3	3		0.33	094	0	0		1.27	139	0	0	
8	1.15	233	3	2		1.44	142	- 1	2		1.28	137	2	3	
9	1.21	107	- 1	1		1.88	143	- 2	4		1.70	173	4	3	
10	1.18	173	0	2		1.81	154	- 1	4		0.39	061	2	3	
11	1.43	198	1	3		1.45	164	0	3		0.85	169	2	6	
12	1.22	177	0	3		1.63	151	- 1	3		1.00	212	5	7	
13	2.13	151	- 2	6		2.06	179	0	6		2.06	228	8	5	
14	2.01	181	0	6		1.83	212	3	4		3.14	225	4	0	
15	1.93	197	2	5		1.99	241	5	3		1.67	239	2	- 1	
16	2.96	227	9	9		2.66	266	10	1		2.54	233	0	0	
17	2.72	237	9	6		2.12	247	6	3		1.99	239	0	0	
18	2.48	244	8	4		1.61	245	4	2		0.00	090	0	0	
19	2.52	241	8	5		0.58	150	0	1		1.01	192	1	3	
20	2.29	233	6	5		2.01	155	- 1	5		2.61	155	3	7	
21	2.28	213	4	6		3.29	168	- 2	15		3.86	178	18	18	
22	1.80	172	0	5		3.40	160	- 5	16		3.69	178	13	16	
23	2.30	170	0	10		4.02	169	- 3	24		3.80	216	19	20	
AVER			3.5	3.8	5.2			0	4	4			3	4	5

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 7/21

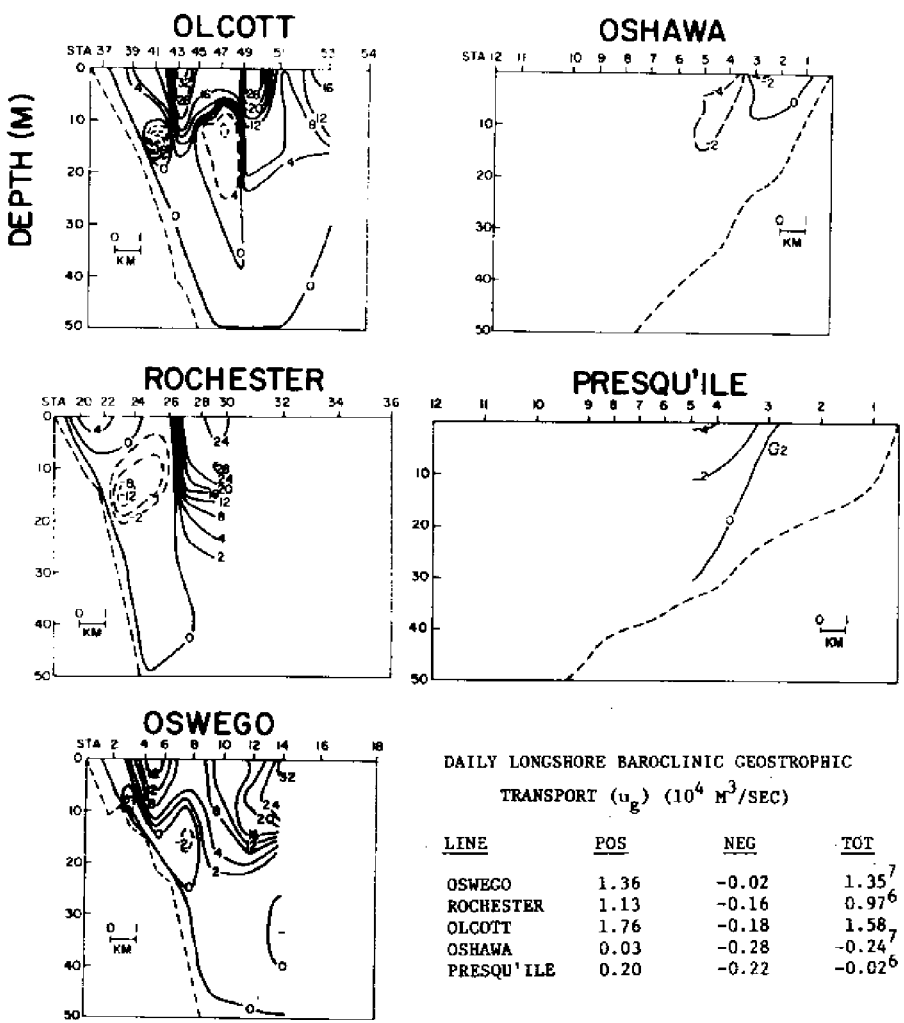


DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	1.09	-0.44	0.64^7
ROCHESTER	1.03	-0.08	0.95^6
OLCOTT	0.38	-0.66	-0.28_7
OSHAWA	0.0	-0.21	-0.21^7
PRESQU'ILE	0.21	-0.19	0.02^6

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 7/21

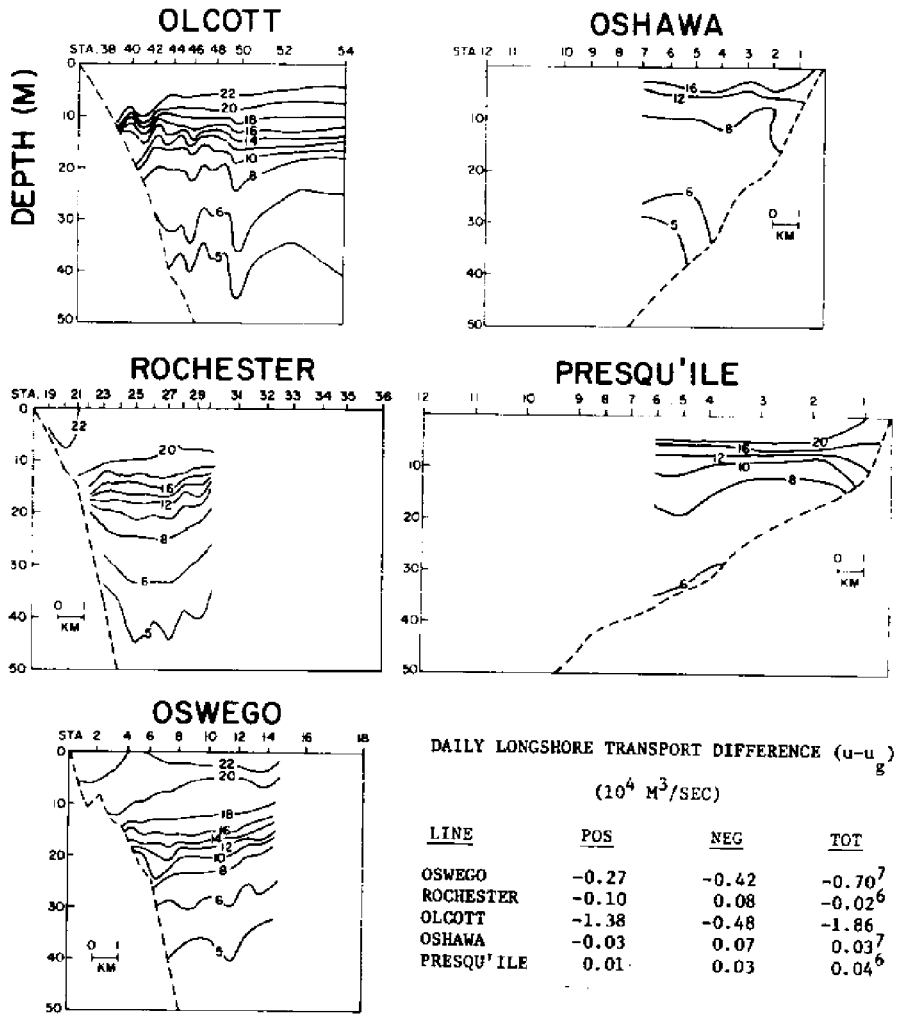


DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	1.36	-0.02	1.35^7
ROCHESTER	1.13	-0.16	0.97^6
OLCOTT	1.76	-0.18	1.58_7
OSHAWA	0.03	-0.28	-0.24^7
PRESQU'ILE	0.20	-0.22	-0.02^6

CROSS SECTIONS OF TEMPERATURE

DATE: 7/21



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

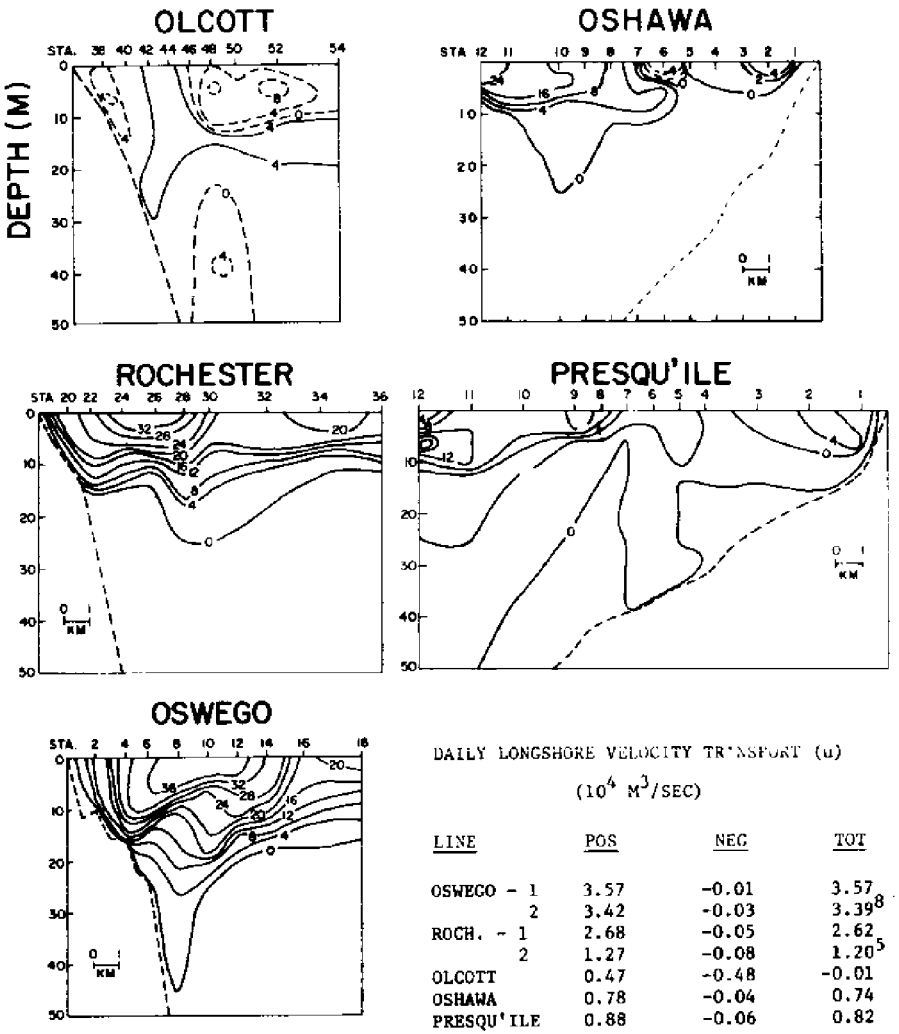
LINE	POS	NEG	TOT
OSWEGO	-0.27	-0.42	-0.70^7
ROCHESTER	-0.10	0.08	-0.02^6
OLCOTT	-1.38	-0.48	-1.86
OSHAWA	-0.03	0.07	0.03^7
PRESQU'ILE	0.01	0.03	0.04^6

DATE: 7/21

HOURLY WIND SPEED AND STRESS

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	3.93	190	4	22		4.56	165	- 7	30		4.00	199	26	14	
1	3.40	203	7	16		4.01	210	13	23		4.27	204	22	12	
2	4.58	210	16	27		4.28	232	22	16		4.62	228	32	16	
3	5.75	220	31	38		5.42	239	37	22		5.44	236	36	12	
4	5.09	227	29	26		5.66	277	48	- 5		5.51	247	19	13	
5	4.70	239	29	17		5.59	244	45	21		5.43	233	23	11	
6	4.14	262	26	4		5.42	248	47	20		5.33	222	32	22	
7	4.79	253	33	10		5.84	260	53	10		5.74	241	43	19	
8	5.89	258	53	11		6.77	254	68	20		6.33	235	46	21	
9	4.75	246	33	15		7.09	257	73	17		6.27	242	48	2	
10	5.38	244	41	19		6.59	229	54	49		8.17	246	55	28	
11	6.39	260	66	12		7.63	275	91	- 8		7.55	234	53	3	
12	7.07	266	75	6		8.09	279	99	-15		7.97	273	70	- 5	
13	6.03	288	56	-16		7.45	299	76	-41		6.48	283	57	-20	
14	6.75	290	63	-22		6.90	308	62	-48		5.59	264	41	- 2	
15	8.27	292	93	-36		6.70	298	62	-31		4.18	300	19	- 8	
16	7.53	295	81	-38		5.95	309	44	-35		3.05	300	9	- 2	
17	6.95	294	68	-27		6.48	305	50	-34		3.04	300	10	- 2	
18	6.07	280	55	- 9		5.60	285	47	-11		4.62	301	7	2	
19	5.85	269	58	0		4.96	264	39	4		3.71	293	2	1	
20	6.63	290	65	-23		4.67	281	34	- 6		1.69	321	0	0	
21	6.10	279	56	- 7		3.89	275	25	-2		1.75	311	5	- 3	
22	6.49	276	62	- 5		4.30	310	23	-19		1.83	284	0	0	
23	7.34	299	69	-38		3.93	318	18	-20		3.39	326	0	- 6	
AVER			48.7	0.1	48.7			47	- 2	47			27	5	28

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 7/22

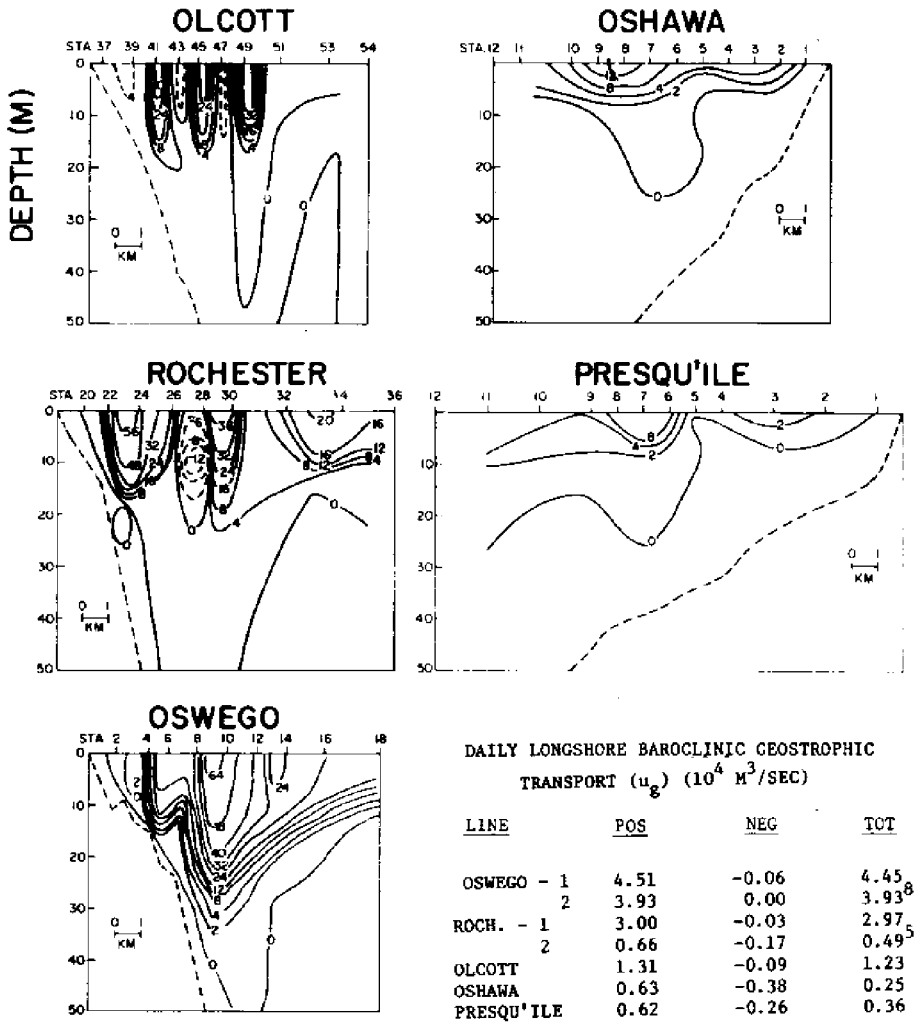


DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	3.57	-0.01	3.57
2	3.42	-0.03	3.39^8
ROCH. - 1	2.68	-0.05	2.62
2	1.27	-0.08	1.20^5
OLCOTT	0.47	-0.48	-0.01
OSHAWA	0.78	-0.04	0.74
PRESQU'ILE	0.88	-0.06	0.82

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 7/22

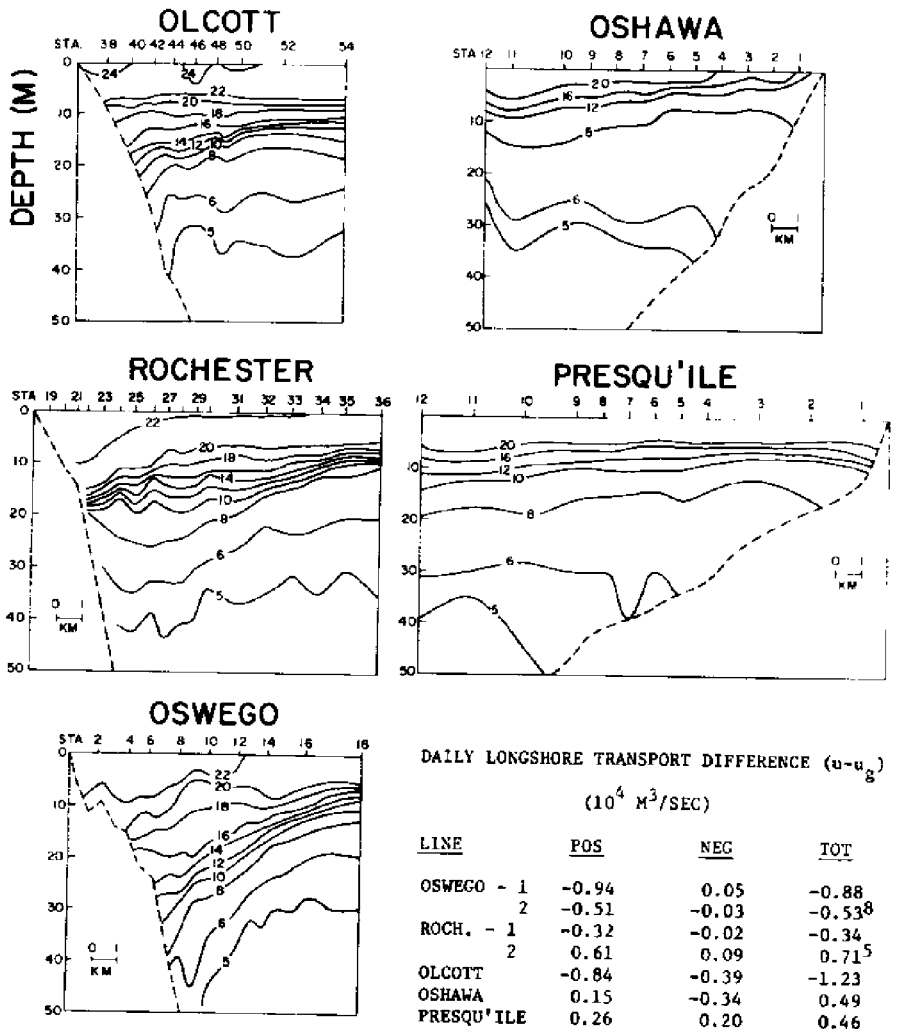


DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	4.51	-0.06	4.45_8
2	3.93	0.00	3.93^8
ROCH. - 1	3.00	-0.03	2.97_5
2	0.66	-0.17	0.49^5
OLCOTT	1.31	-0.09	1.23
OSHAWA	0.63	-0.38	0.25
PRESQU'ILE	0.62	-0.26	0.36

CROSS SECTIONS OF TEMPERATURE

DATE: 7/22



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

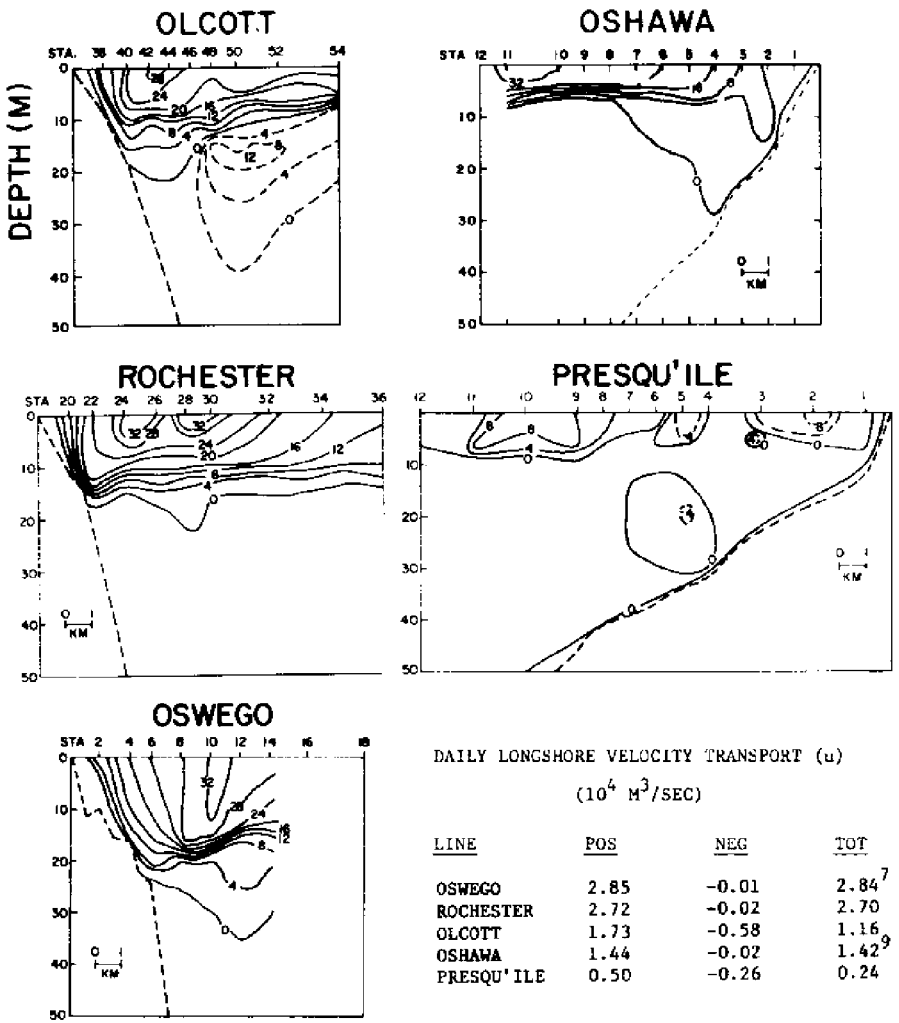
LINE	POS	NEG	TOT
OSWEGO - 1	-0.94	0.05	-0.88
2	-0.51	-0.03	-0.53[8]
ROCH. - 1	-0.32	-0.02	-0.34
2	0.61	0.09	0.71[5]
OLCOTT	-0.84	-0.39	-1.23
OSHAWA	0.15	-0.34	0.49
PRESQU'ILE	0.26	0.20	0.46

HOURLY WIND SPEED AND STRESS

DATE: 7/22

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	6.19	300	53	-29		4.73	268	33	1		5.43	351	13	-25	
1	5.97	305	45	-30		5.48	316	32	-31		5.55	356	9	-15	
2	5.89	283	50	-11		5.32	310	33	-26		4.34	342	3	-20	
3	5.71	286	46	-12		4.37	304	26	-16		4.53	335	5	-16	
4	5.23	296	40	-18		4.84	310	27	-22		4.91	349	2	-18	
5	3.80	342	7	-20		4.84	321	22	-26		4.14	335	5	-25	
6	2.84	330	6	-10		3.76	330	11	-17		4.96	314	10	-20	
7	3.19	327	8	-12		3.47	324	11	-13		5.13	321	12	-19	
8	3.10	312	11	- 9		3.50	333	8	-15		5.00	323	16	-15	
9	2.76	313	8	- 7		3.32	320	12	-13		3.70	327	15	4	
10	2.83	322	7	- 8		2.00	345	1	- 6		2.70	303	19	6	
11	1.38	308	2	- 1		1.73	289	4	- 1		2.59	292	13	1	
12	2.00	281	6	0		2.33	302	7	- 3		3.05	263	8	1	
13	1.88	256	5	1		2.94	276	13	0		3.11	271	8	1	
14	2.72	264	11	1		3.68	279	20	- 2		2.60	283	1	0	
15	2.62	279	10	- 1		2.25	300	7	- 3		1.79	295	0	0	
16	2.75	273	11	0		2.00	304	6	- 3		1.05	246	1	2	
17	1.27	268	3	0		1.37	279	3	0		1.17	246	1	3	
18	2.99	231	11	9		0.48	279	1	0		1.52	193	19	12	
19	3.06	241	12	7		0.61	104	0	0		1.51	117	70	41	
20	2.88	241	11	6		2.15	124	- 5	4		3.15	133	87	35	
21	2.72	215	7	9		2.98	170	- 1	14		4.17	151	53	42	
22	3.22	186	1	15		3.76	165	- 5	21		3.92	177	48	2	
23	3.29	192	3	16		4.59	210	16	28		8.10	247	59	51	
AVER			15.6	- 4.3	16.2			12	- 6	13			20	1	20

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 7/23

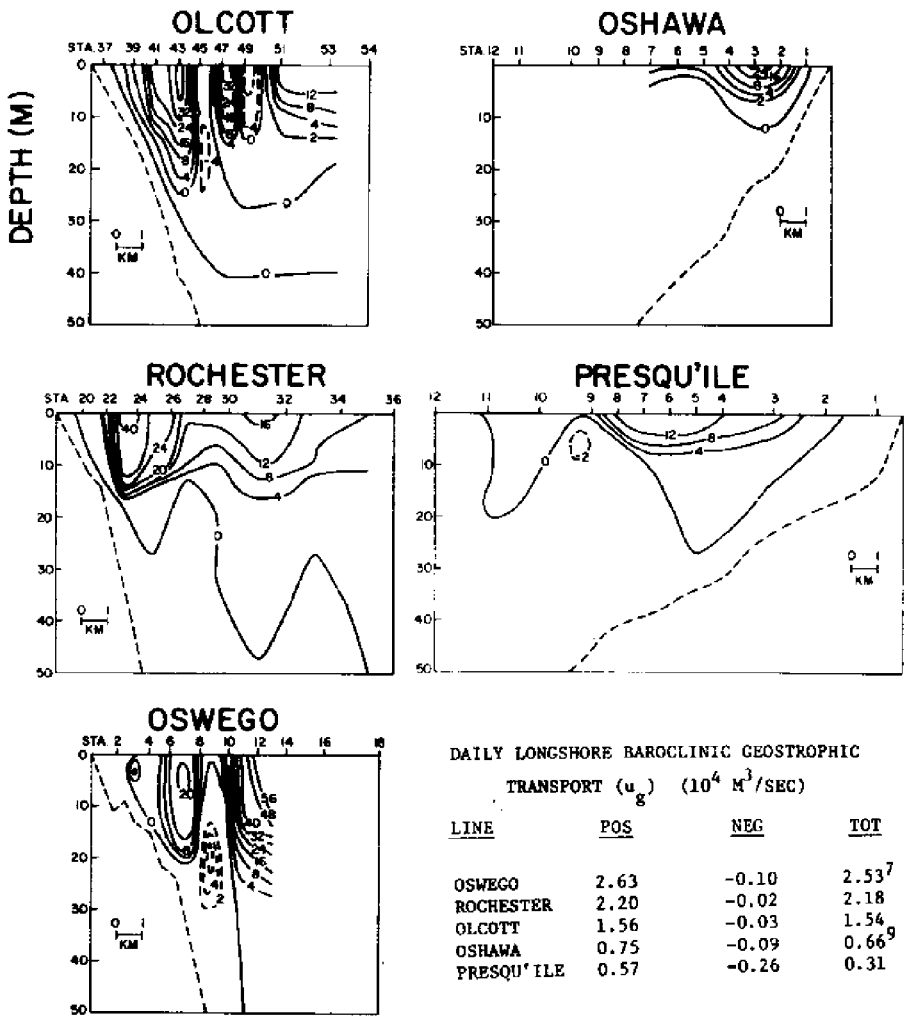


DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	2.85	-0.01	2.84^7
ROCHESTER	2.72	-0.02	2.70
OLCOTT	1.73	-0.58	1.16_9
OSHAWA	1.44	-0.02	1.42^9
PRESQU'ILE	0.50	-0.26	0.24

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 7/23

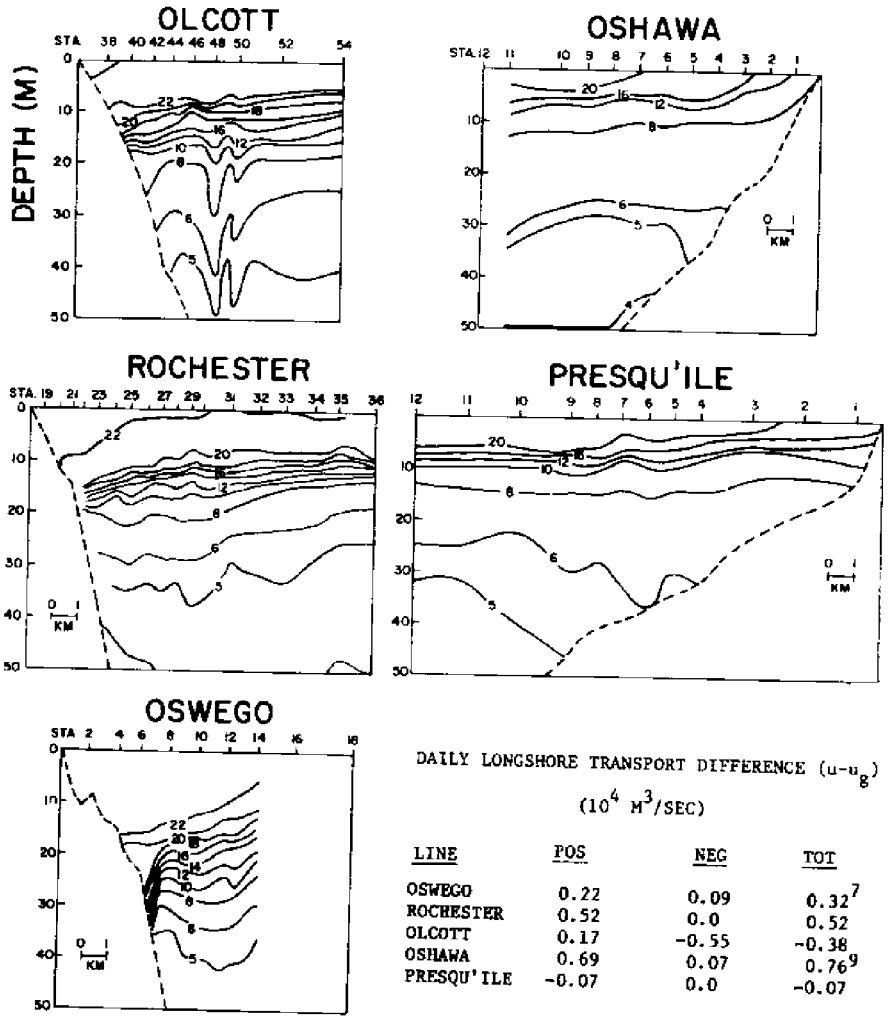


DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	2.63	-0.10	2.53^7
ROCHESTER	2.20	-0.02	2.18
OLCOTT	1.56	-0.03	1.54_9
OSHAWA	0.75	-0.09	0.66^9
PRESQU'ILE	0.57	-0.26	0.31

CROSS SECTIONS OF TEMPERATURE

DATE: 7/23



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.22	0.09	0.32^7
ROCHESTER	0.52	0.0	0.52
OLCOTT	0.17	-0.55	-0.38
OSHAWA	0.69	0.07	0.76^9
PRESQU'ILE	-0.07	0.0	-0.07

HOURLY WIND SPEED AND STRESS

DATE: 7/23

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	4.44	218	20	24	
1	5.64	215	30	41	
2	6.98	253	73	22	
3	9.84	289	141	-49	
4	9.18	301	110	-66	
5	7.40	276	88	- 8	
6	7.12	293	72	-29	
7	5.62	287	49	-14	
8	6.03	297	50	-25	
9	6.30	304	50	-33	
10	5.43	314	33	-30	
11	4.09	298	23	-12	
12	3.83	306	18	-12	
13	3.19	295	14	- 6	
14	2.71	292	11	- 4	
15	3.03	289	13	- 4	
16	2.62	250	10	4	
17	3.02	198	5	14	
18	3.82	188	3	22	
19	3.15	181	0	15	
20	3.37	185	1	17	
21	2.23	206	6	8	
22	6.43	270	79	5	
23	7.79	260	92	19	
AVER			41.3	- 4.2	41.5

BUOY 10 (ROCHESTER & PRESQU'ILE)

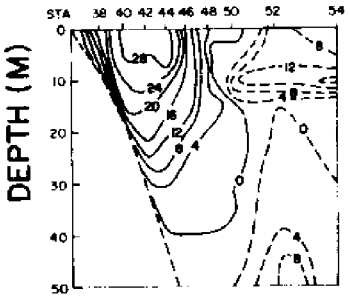
	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
	6.01	256	54	12	
	8.43	274	108	- 8	
	8.50	279	106	-17	
	9.04	277	127	-13	
	7.56	284	84	-21	
	7.97	298	89	-45	
	6.02	281	61	-12	
	6.64	287	63	-18	
	6.59	295	59	-27	
	5.06	287	40	-12	
	4.80	292	35	-13	
	4.42	273	30	- 1	
	3.55	304	17	-10	
	2.75	305	10	- 6	
	2.00	312	5	- 3	
	1.25	299	3	- 1	
	0.66	284	1	0	
	1.46	200	2	4	
	3.33	188	2	17	
	4.34	219	19	22	
	7.23	267	79	3	
	4.01	247	39	20	
	8.08	284	107	-24	
	7.35	288	82	-27	
			51	- 8	52

BUOY 5 (OLCOTT & OSHAWA)

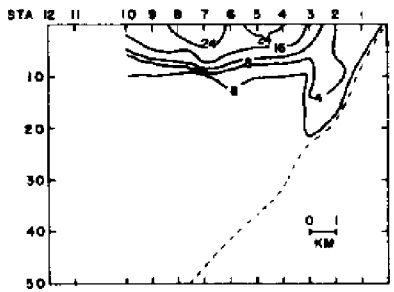
	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
	8.20	260	89	38	
	7.78	246	81	-37	
	5.70	327			
	5.44	299			
	4.33	300			
	2.77	287			
	4.33	290			
	4.71	295			
	4.15	285			
	3.81	289			
	3.57	289			
	2.66	277			
	2.14	256			
	2.25	264			
	2.05	240			
	1.30	204	7	-40	
	2.41	217			
	5.55	248			
	6.29	228			
	7.93	238			
	7.99	255			
	10.64	263			
	10.34	262			
	7.32	260			

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 7/24

OLCOTT



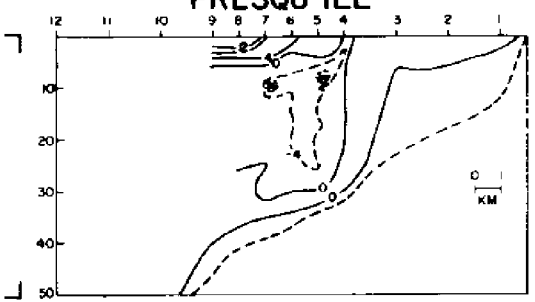
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

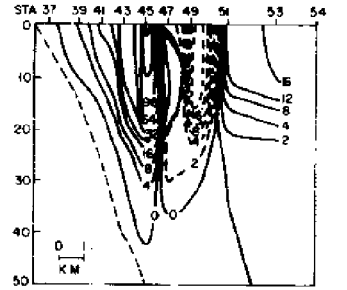
DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

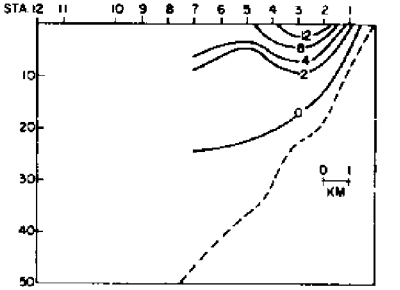
LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT - 1	1.88	-0.79	1.10
2	0.37	-0.25	0.12^4
OSHAWA	1.23	0.0	1.23^9
PRESQU'LE	0.17	-0.32	-0.15^9

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 7/24

OLCOTT



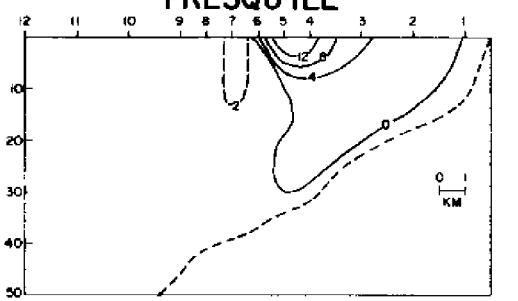
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

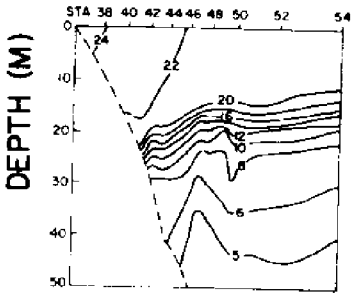
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT - 1	3.60	-0.37	3.23
2	0.73	-0.10	0.63^4
OSHAWA	0.48	-0.40	0.08^9
PRESQU'ILE	0.22	-0.29	-0.07^9

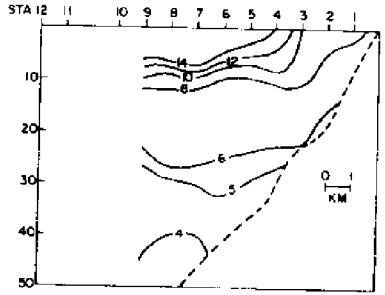
CROSS SECTIONS OF TEMPERATURE

DATE: 7/24

OLCOTT



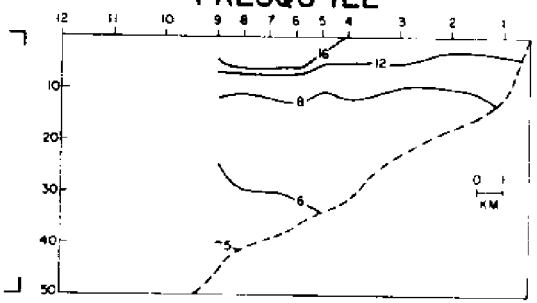
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT - 1	-1.72	-0.42	-2.14
2	-0.36	-0.15	-0.51
OSHAWA	0.75	0.40	1.15
PRESQU'ILE	-0.05	-0.03	-0.08

HOURLY WIND SPEED AND STRESS

DATE: 7/24

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	7.70	264	91	9	
1	8.63	287	110	-34	
2	8.22	298	95	-50	
3	6.36	277	64	- 7	
4	6.44	276	62	- 5	
5	7.57	278	85	-11	
6	7.09	296	70	-33	
7	7.47	298	73	-39	
8	8.32	291	99	-37	
9	7.90	283	93	-21	
10	6.98	291	69	-26	
11	6.08	286	57	-16	
12	6.01	291	53	-19	
13	6.68	296	59	-28	
14	6.16	295	53	-24	
15	5.99	265	55	6	
16	6.00	262	58	9	
17	5.63	263	50	5	
18	5.26	255	41	11	
19	5.26	241	37	20	
20	5.40	243	40	21	
21	6.23	267	57	2	
22	6.39	270	62	2	
23	4.68	274	33	- 1	
AVER			65.3	-11.1	66.2

BUOY 10 (ROCHESTER & PRESQU'ILE)

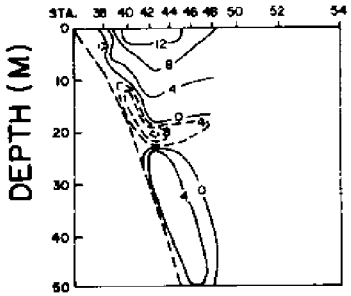
WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
6.90	279	78	-12	
8.25	246	95	42	
7.85	253	87	27	
7.07	251	69	24	
7.08	252	70	23	
8.23	254	95	28	
8.16	251	93	32	
8.44	266	109	7	
8.07	273	106	- 5	
7.82	281	91	-18	
5.39	286	52	-14	
6.45	278	68	- 8	
7.50	283	85	-20	
5.83	262	56	8	
5.32	259	44	9	
6.15	258	56	12	
5.29	266	50	4	
5.01	264	42	4	
5.23	246	38	16	
6.14	261	58	8	
5.06	287	45	-12	
5.63	275	53	0	
4.39	234	36	27	
5.79	269	59	1	69
		68	7	

BUOY 5 (OLCOTT & OSHAWA)

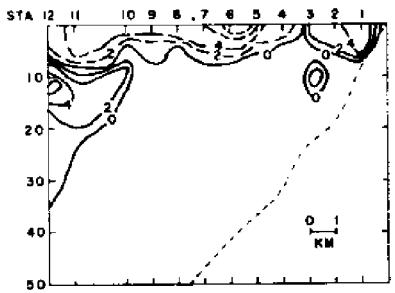
WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
6.28	271			
5.44	334			
5.05	349			
4.04	316			
6.39	299			
7.33	299			
7.40	282			
7.16	278			
7.87	269			
6.35	273			
6.75	271			
5.77	287			
5.03	268			
5.54	263			
4.99	268			
5.90	261			
6.41	235			
4.88	244			
6.23	243			
6.37	249			
7.05	236			
6.91	237			
8.57	264			
7.63	263			

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 7/25

OLCOTT



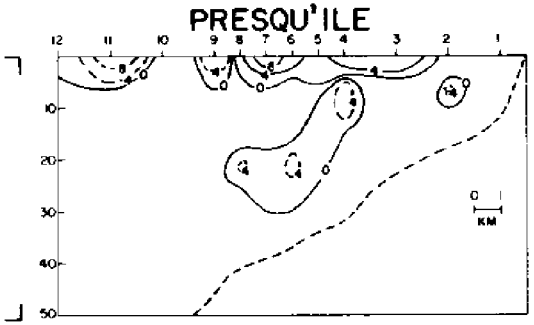
OSHAWA



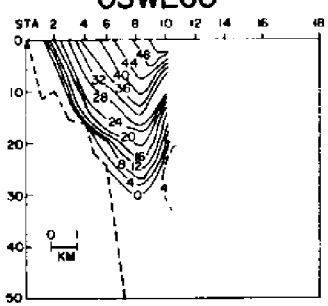
ROCHESTER

no data

PRESQU'ILE



OSWEGO



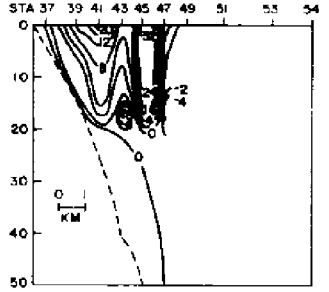
DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

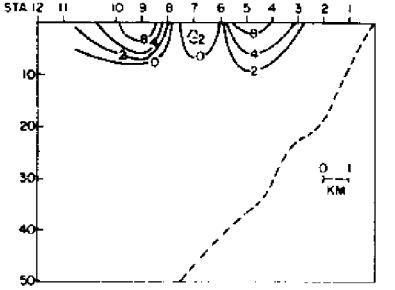
LINE	POS	NEG	TOT
OSWEGO	2.49	-0.02	2.47^5
ROCHESTER	0.78	0.0	0.78^2
OLCOTT	0.55	-0.16	0.39^6
OSHAWA	0.28	-0.20	0.07
PRESQU. - 1	0.15	-0.32	-0.17
2	0.01	-0.60	-0.59^5

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 7/25

OLCOTT



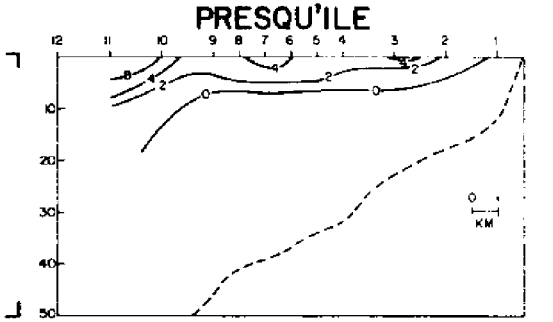
OSHAWA



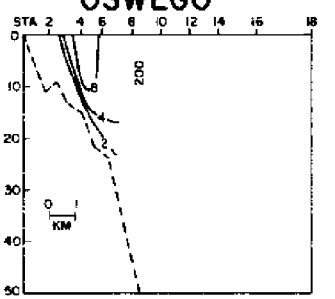
ROCHESTER

no data

PRESQU'ILE



OSWEGO



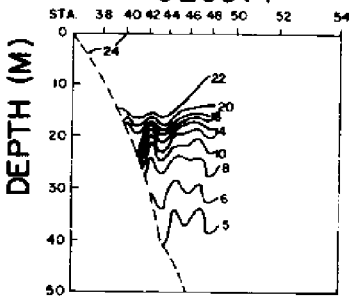
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	6.72	0.00	6.72^5
ROCHESTER	0.0	-0.03	-0.03^2
OLCOTT	0.65	-0.04	0.61^6
OSHAWA	0.39	-0.09	0.30
PRESQ. - 1	0.55	-0.16	0.39
2	0.06	-0.11	-0.05^5

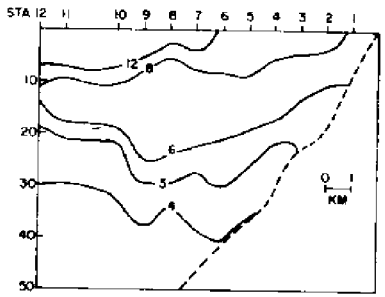
CROSS SECTIONS OF TEMPERATURE

DATE: 7/25

OLCOTT



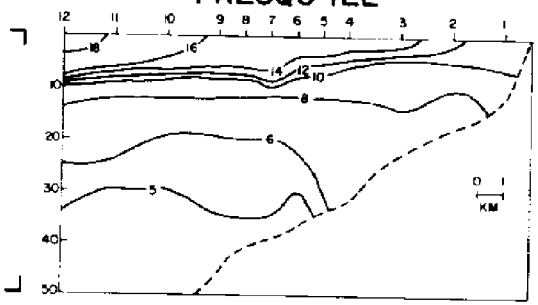
OSHAWA



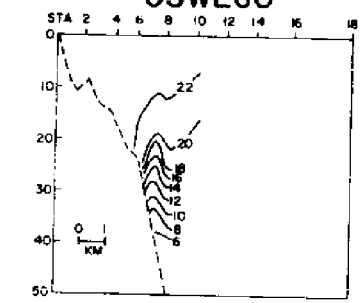
ROCHESTER

no data

PRESQU'ILE



OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	-4.23	-0.02	-4.25^5
ROCHESTER	0.78	0.03	0.80^2
OLCOTT	-0.10	-0.12	-0.22^6
OSHAWA	-0.11	-0.11	-0.23
PRESQU. - 1	-0.40	-0.16	-0.56
2	-0.05	-0.49	-0.53^5

DATE: 7/25

HOURLY WIND SPEED AND STRESS

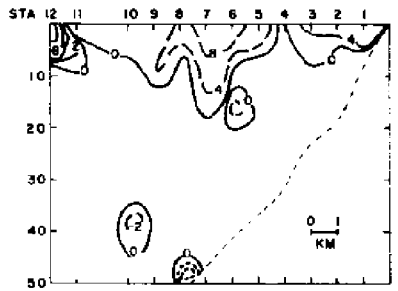
TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	5.71	283	48	-10		5.42	306	38	-26		5.76	278			
1	6.78	272	74	0		4.51	284	35	- 9		4.73	293			
2	4.79	278	41	- 3		3.68	295	28	-10		5.02	280			
3	3.85	279	24	- 2		5.11	273	51	5		3.15	273			
4	5.01	287	40	-10		5.32	286	47	- 8		4.12	336			
5	4.70	296	32	-13		3.58	277				1.81	353			
6	5.32	292	45	-14							1.82	269			
7	2.53	305	8	- 5							2.47	266			
8	4.83	251	34	12							2.67	293			
9	5.68	242	43	22							3.40	285			
10	5.26	269	41	1							4.01	250			
11	4.70	267	35	2							4.17	264			
12	4.05	273	25	0							3.77	256			
13	4.60	296	29	-14				16	- 1		4.56	318			
14	6.08	342	17	-54							5.23	001			
15	8.45	358	5	-110							4.31	033			
16	6.87	045	-49	-49							3.75	001	26	-63	
17	6.62	038	-41	-54							2.58	313	4	-46	
18	2.04	071	- 9	- 2							4.43	264	47	-33	
19	1.77	292	6	- 1							7.25	269	105	- 2	
20	5.61	266	50	2							6.23	312	110	-53	
21	8.16	260	101	18							5.10	318	109	-49	
22	9.18	264	132	17							6.68	323	139	-80	
23	9.44	279	135	-19							6.94	300	148	-70	
AVER			36.1	-11.9	38.0	4.51	287	37	- 9	38					

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 7/26

OLCOTT

no data

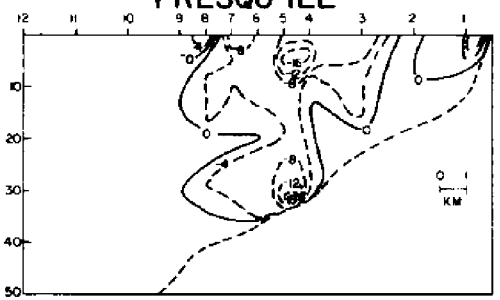
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

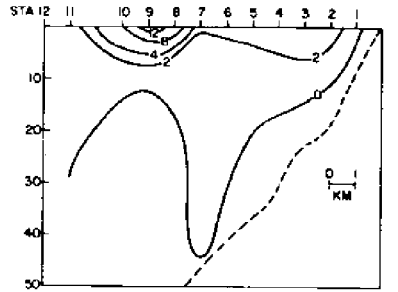
LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.14	-0.28	-0.14_9
PRESQ. - 1	0.08	-1.19	-1.12^9
2	0.01	-0.53	-0.53^5

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 7/26

OLCOTT

no data

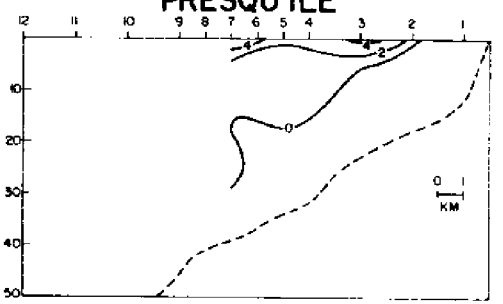
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.31	-0.06	0.25_9
PRESQ. - 1	0.19	-0.14	0.05^9
2	0.12	-0.11	0.01^5

CROSS SECTIONS OF TEMPERATURE

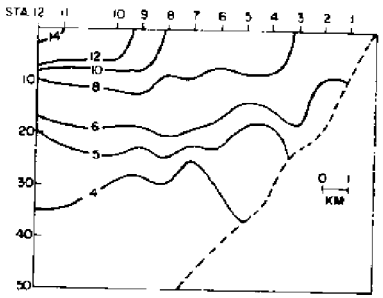
DATE: 7/26

OLCOTT

DEPTH (M)

no data

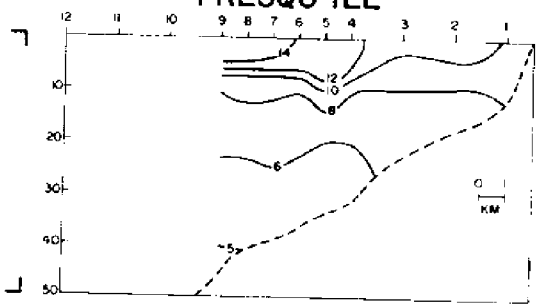
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	-0.17	-0.22	-0.39
PRESQU. - 1	-0.11	-1.05	-1.17^9
2	-0.11	-0.42	-0.53^5

DATE: 7/26

HOURLY WIND SPEED AND STRESS

BUOY 10 (ROCHESTER & PRESQU'ILE)

	WIND(M/S)	STRESS(10^{-1}DYNE/CM^2)		
	SP	DIR	E	N	R

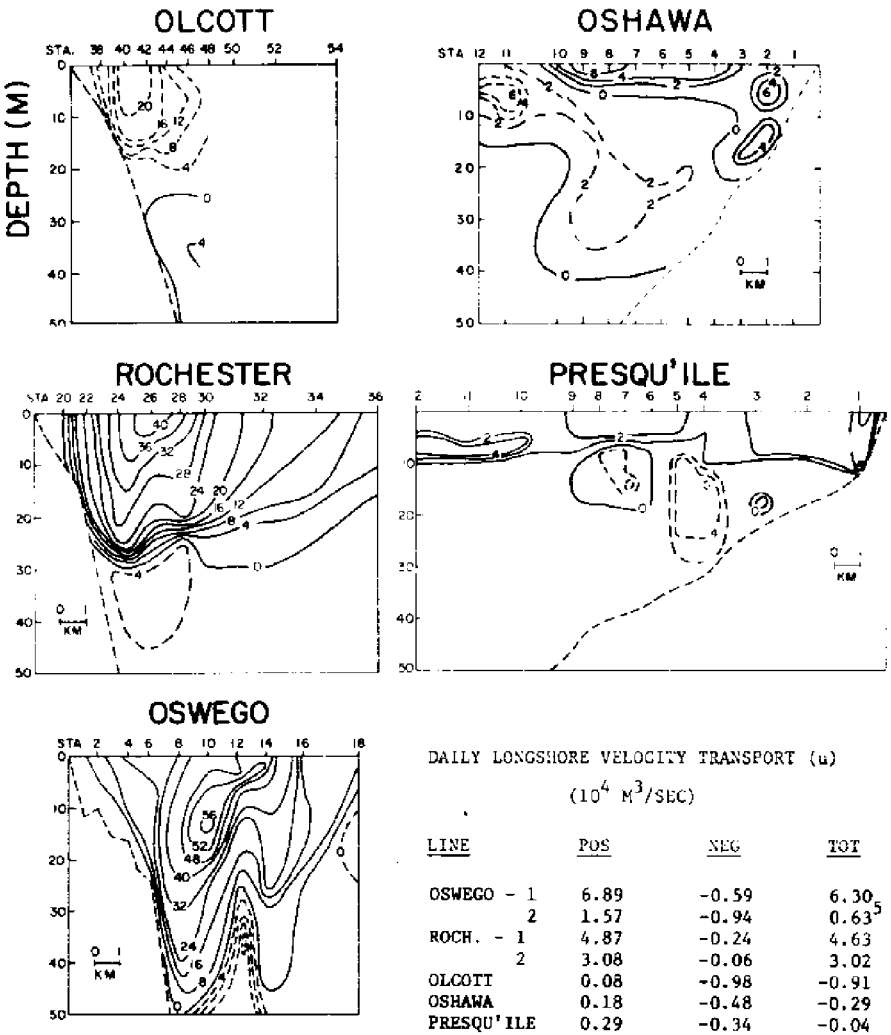
BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S)		STRESS(10^{-1}DYNE/CM^2)		
	SP	DIR	E	N	R
0	8.52	301	101	-56	
1	6.33	332	30	-61	
2	8.13	314	75	-71	
3	9.10	318	85	-90	
4	8.70	312	87	-76	
5	8.63	296	102	-50	
6	8.22	291	103	-38	
7	8.49	295	102	-46	
8	7.51	295	80	-38	
9	7.20	334	35	-68	
10	6.21	322	39	-50	
11	6.70	323	43	-55	
12	7.21	329	41	-66	
13	6.84	312	53	-46	
14	6.29	297	54	-26	
15	7.86	283	100	-24	
16	9.85	284	145	-34	
17	10.51	282	163	-33	
18	10.86	281	178	-34	
19	10.96	289	176	-58	
20	11.35	284	202	-51	
21	10.49	304	156	-103	
22	10.10	292	148	-59	
23	9.60	283	140	-32	
AVER			101.6	-52.7	114.4

BUOY 5 (OLCOTT & OSHAWA)

	WIND(M/S)		STRESS(10^{-1}DYNE/CM^2)		
	SP	DIR	E	N	R
	5.70	295	101	-42	
	5.78	292	71	-57	
	6.54	288	88	-50	
	7.43	289	110	1	
	8.08	265	127	-55	
	8.28	281	153	-20	
	8.22	282	124	-55	
	6.73	308	113	-68	
	7.14	312	87	-87	
	7.74	316	102	-78	
	7.67	319	74	-100	
	6.87	317	43	-68	
	5.57	297	41	-68	
	6.13	284	45	-35	
	7.78	271	75	-12	
	7.49	276	48	-33	
	6.53	283	50	-31	
	6.65	266	86	-25	
	6.95	259	100	-30	
	6.02	284	75	-29	
	5.42	327	36	-28	
	4.40	293	22	-12	
	4.96	271	20	-8	
	4.96	266	29	-14	
			76	-43	87

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 7/27

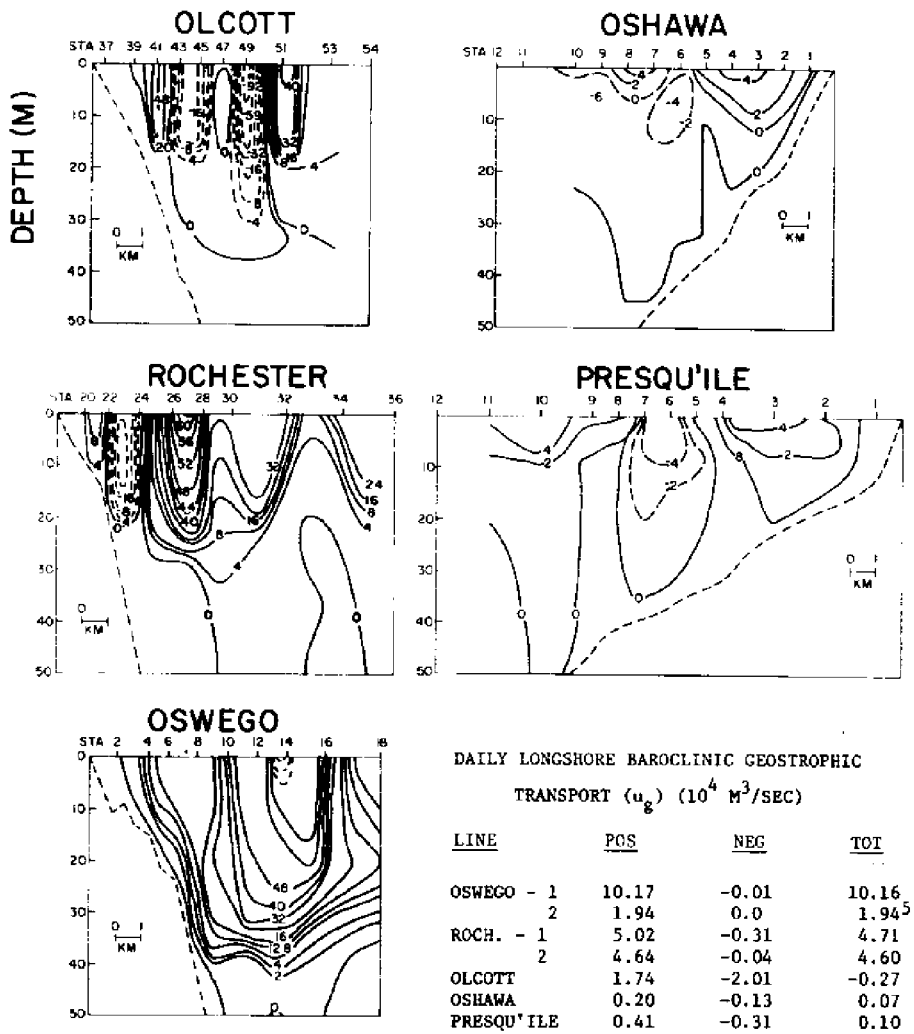


DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	6.89	-0.59	6.30
2	1.57	-0.94	0.63
ROCH. - 1	4.87	-0.24	4.63
2	3.08	-0.06	3.02
OLCOTT	0.08	-0.98	-0.91
OSHAWA	0.18	-0.48	-0.29
PRESQU'ILE	0.29	-0.34	-0.04

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 7/27

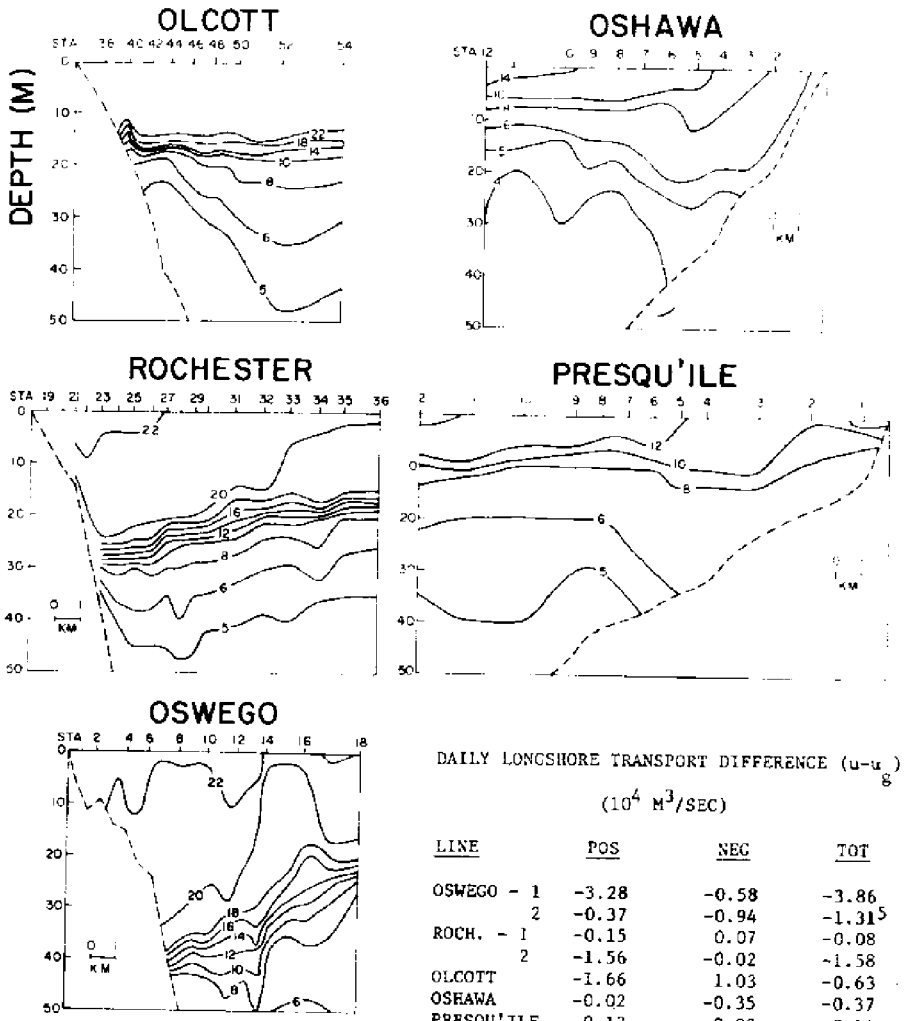


DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	10.17	-0.01	10.16
2	1.94	0.0	1.94
ROCH. - 1	5.02	-0.31	4.71
2	4.64	-0.04	4.60
OLCOTT	1.74	-2.01	-0.27
OSHAWA	0.20	-0.13	0.07
PRESQU'ILE	0.41	-0.31	0.10

CROSS SECTIONS OF TEMPERATURE

DATE: 7/27



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	-3.28	-0.58	-3.86
2	-0.37	-0.94	-1.31
ROCH. - 1	-0.15	0.07	-0.08
2	-1.56	-0.02	-1.58
OLCOTT	-1.66	1.03	-0.63
OSHAWA	-0.02	-0.35	-0.37
PRESQU'ILE	-0.12	-0.03	-0.14

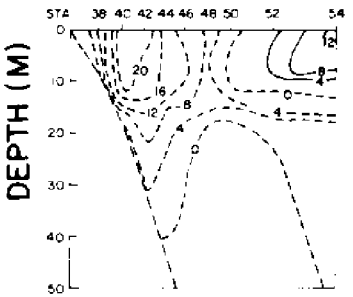
HOURLY WIND SPEED AND STRESS

DATE: 7/27

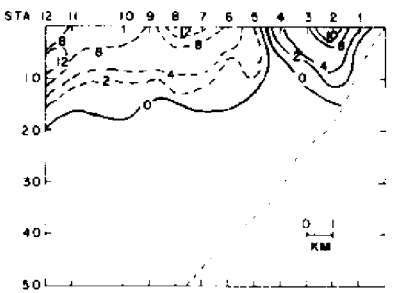
TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	8.01	299	96	-52							4.64	265	33	- 7	
1	7.84	286	97	-26							4.76	286	15	-23	
2	8.34	292	97	-39							3.87	307	21	-39	
3	7.19	293	73	-30							3.34	310	18	-53	
4	6.42	318	43	-47							3.89	314	10	-55	
5	5.70	322	30	-37							4.70	330	-20	-59	
6	5.49	329	24	-38							4.88	327	4	-50	
7	5.18	350	7	-40							4.90	321	3	-38	
8	5.54	350	8	-45							4.50	347	- 4	-28	
9	4.43	340	11	-29							3.56	351	1	-24	
10	4.23	325	16	-21							3.11	344	- 2	-15	
11	4.08	344	7	-24							3.55	348	- 1	-14	
12	4.34	325	17	-23							2.59	359	- 1	- 9	
13	3.50	316	13	-13		2.90	356	0	-12		2.01	348	0	- 1	
14	2.30	297	7	- 3		1.60	347	1	- 4		1.63	307	0	- 1	
15	2.41	287	9	- 1		1.20	292	2	0		2.11	282	0	- 1	
16	3.44	250	17	7		2.20	251	8	3		2.83	248	0	0	
17	4.41	251	28	10		3.96	264	24	3		4.12	235	0	0	
18	5.17	263	41	5		4.91	261	35	6		4.81	251	2	0	
19	5.57	257	48	12		4.88	255	35	9		4.96	254	5	1	
20	6.32	279	60	- 8		5.50	261	45	7		5.50	260	8	0	
21	6.54	289	61	-20		5.41	266	43	3		5.02	265	10	0	
22	7.32	276	79	- 7		5.24	264	41	4		4.60	274	17	0	
23	6.81	286	71	-20		4.37	260	28	5		3.65	279	14	0	
AVER			40.0	-20.4	44.9	3.42	269						5	-18	19

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 7/28

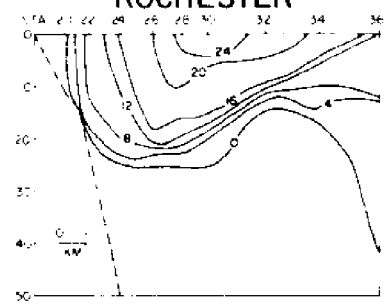
OLCOTT



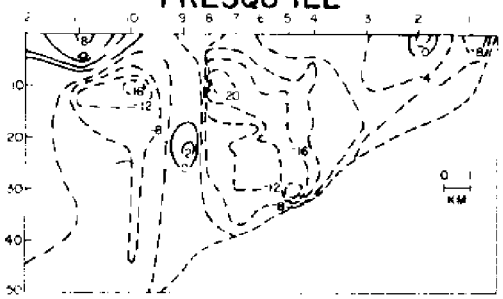
OSHAWA



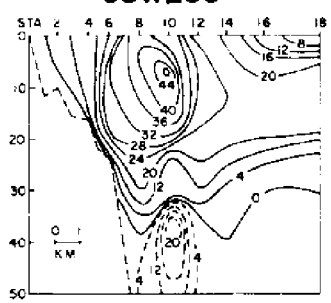
ROCHESTER



PRESQU'ILE



OSWEGO



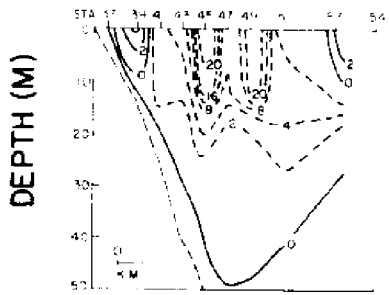
DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

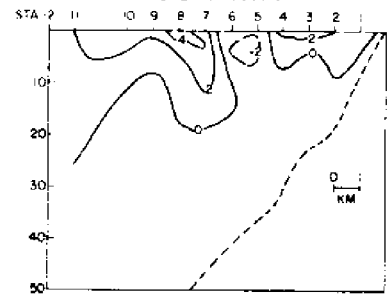
LINE	POS	NEG	TOT
OSWEGO - 1	5.93	-0.39	5.54
2	1.46	-0.33	1.13
ROCHESTER	2.78	-0.01	2.77
OLCOTT - 1	0.31	-1.30	-0.99
2	0.15	-1.67	-1.52
OSHAWA	0.13	-0.69	-0.56
PRESQU'ILE	0.13	-5.58	-5.45

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 7/28

OLCOTT



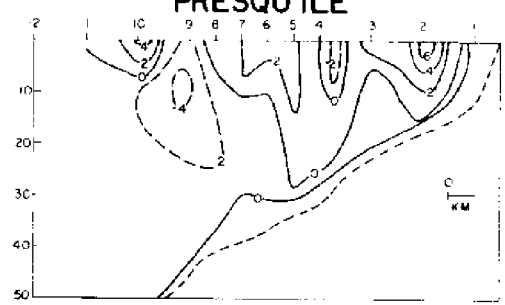
OSHAWA



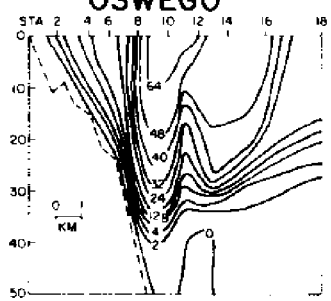
ROCHESTER

no data

PRESQU'ILE



OSWEGO

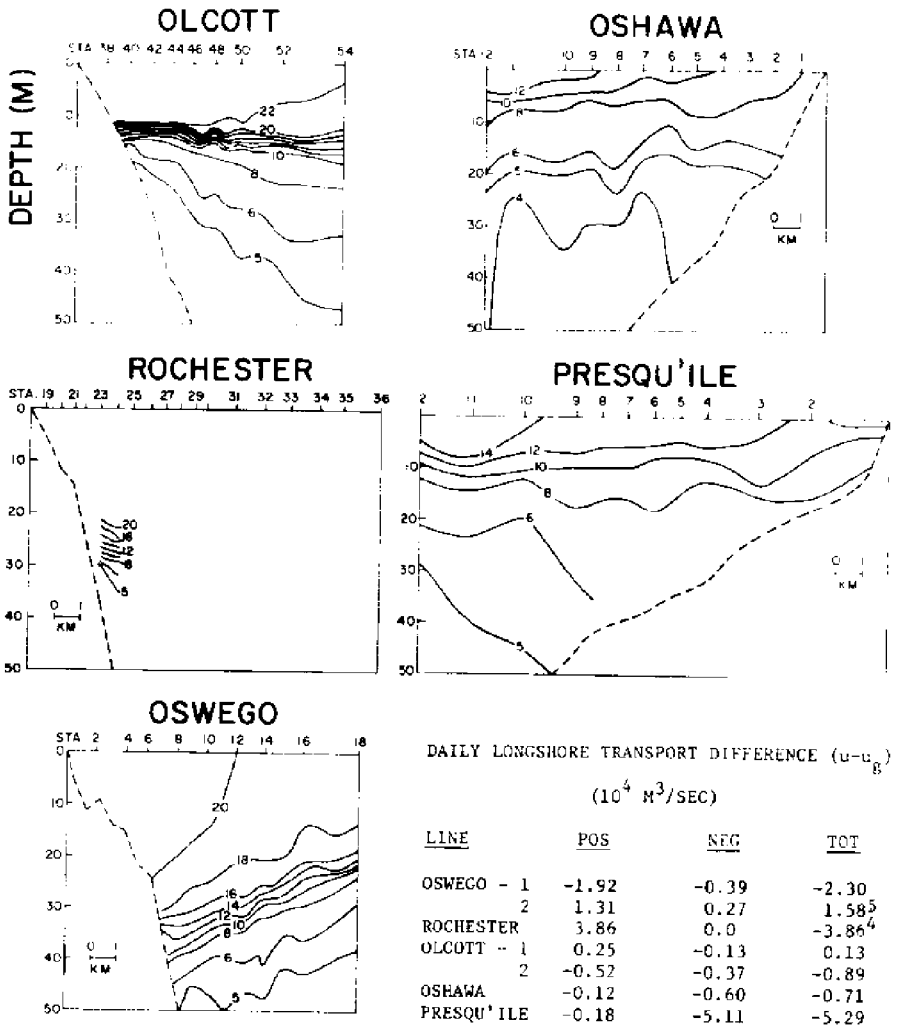


DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	7.85	0.00	7.84
2	0.15	-0.60	-0.45
ROCHESTER	6.64	-0.01	6.63
OLCOTT - 1	0.06	-1.17	-1.12
2	0.67	-1.30	-0.63
OSHAWA	0.25	-0.09	0.15
PRESQU'ILE	0.31	-0.47	-0.15

CROSS SECTIONS OF TEMPERATURE

DATE: 7/28



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

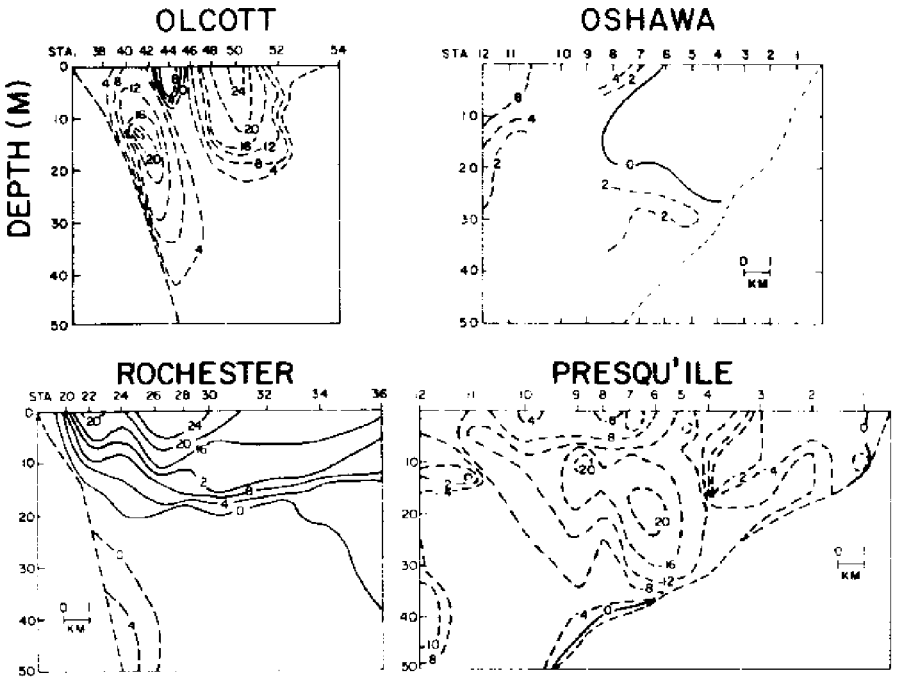
LINE	POS	NEG	TOT
OSWEGO - 1	-1.92	-0.39	-2.30
2	1.31	0.27	1.58^5
ROCHESTER	3.86	0.0	-3.86^4
OLCOTT - 1	0.25	-0.13	0.13
2	-0.52	-0.37	-0.89
OSHAWA	-0.12	-0.60	-0.71
PRESQU'ILE	-0.18	-5.11	-5.29

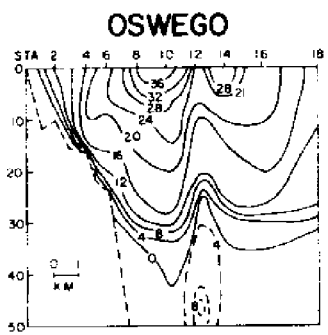
HOURLY WIND SPEED AND STRESS

DATE: 7/28

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	7.35	276	81	- 7		4.02	268	25	1		4.20	279	14	- 7	
1	7.70	277	89	- 9		5.08	282	41	- 7		4.44	281	34	-33	
2	7.94	286	93	-26		6.15	290	56	-18		4.10	315	10	-76	
3	6.91	302	62	-38		5.04	305	37	-24		4.12	334	22	-73	
4	6.50	319	42	-48		5.79	330	27	-47		3.96	339	13	-61	
5	6.98	338	28	-68		4.68	318	26	-28		4.17	351	9	-66	
6	6.19	338	23	-56		5.38	332	22	-39		4.43	333	14	-47	
7	5.96	347	13	-53		5.28	328	24	-38		4.21	333	2	-48	
8	6.46	348	14	-63		4.75	343	11	-35		4.27	339	7	-41	
9	6.03	346	15	-56		4.39	323	19	-24		3.72	314	3	-38	
10	7.32	327	45	-67		4.41	324	21	-26		3.51	320	- 4	-36	
11	7.27	001	- 1	-79		4.95	353	5	-37		4.06	317	0	-34	
12	5.74	007	- 6	-54		4.11	341	8	-25		4.13	331	4	-29	
13	5.61	319	33	-38		3.99	317	17	-17		3.33	309	- 2	-24	
14	4.29	338	10	-26		3.68	319	14	-15		3.63	296	0	- 8	
15	3.31	338	7	-16		3.69	298	19	- 9		2.47	264	0	0	
16	1.69	339	2	- 5		4.01	275	25	- 2		3.30	254	0	0	
17	2.49	250	10	4		4.10	260	25	4		4.54	246	1	1	
18	5.31	259	45	9		4.91	269	36	1		4.91	236	5	0	
19	7.36	248	78	31		5.21	273	42	- 2		4.24	254	17	1	
20	7.55	267	86	4		5.35	258	42	9		4.23	250	22	0	
21	7.44	269	84	2		5.09	254	37	11		3.40	265	24	4	
22	7.31	272	84	- 1		4.57	268	32	1		3.15	268	22	0	
23	6.97	293	70	-29		4.42	277	29	- 2		3.06	251	14	1	
AVER			42.0	-28.7	50.9	4.07	300.1	27	-16	31			9	-26	28

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 7/29



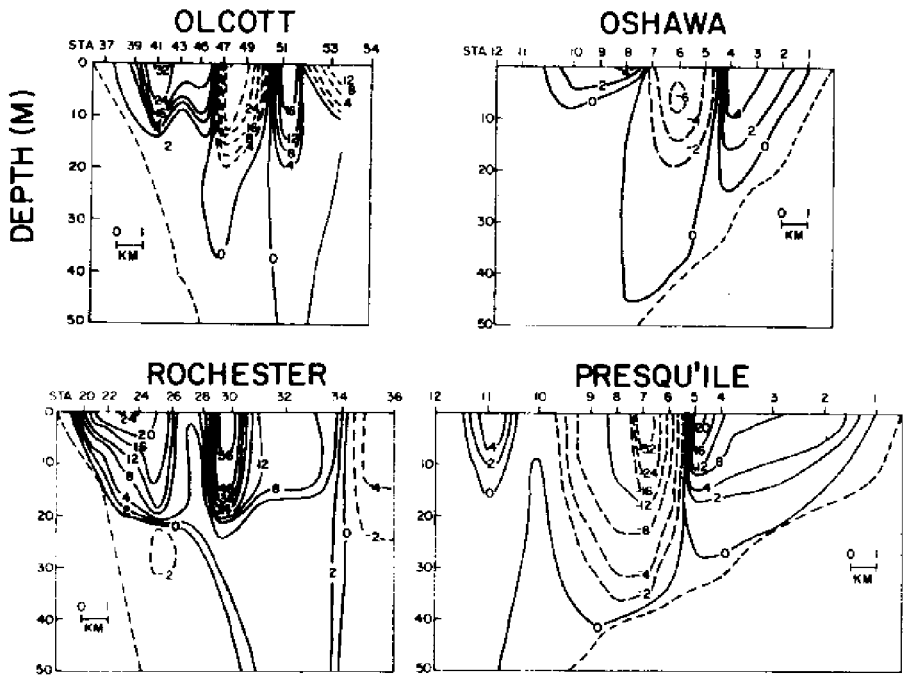


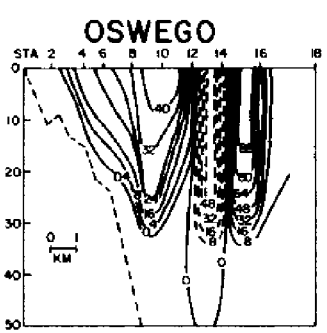
DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	4.55	-0.21	4.34
2	4.35	-0.39	3.96
ROCH. - 1	2.55	-0.14	2.41_5
2	0.50	-0.02	0.48^5
OLCOTT	0.08	-2.37	-2.29_7
OSHAWA	0.01	-0.45	-0.44^7
PRESQU'ILE	0.0	-5.15	-5.15

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 7/29



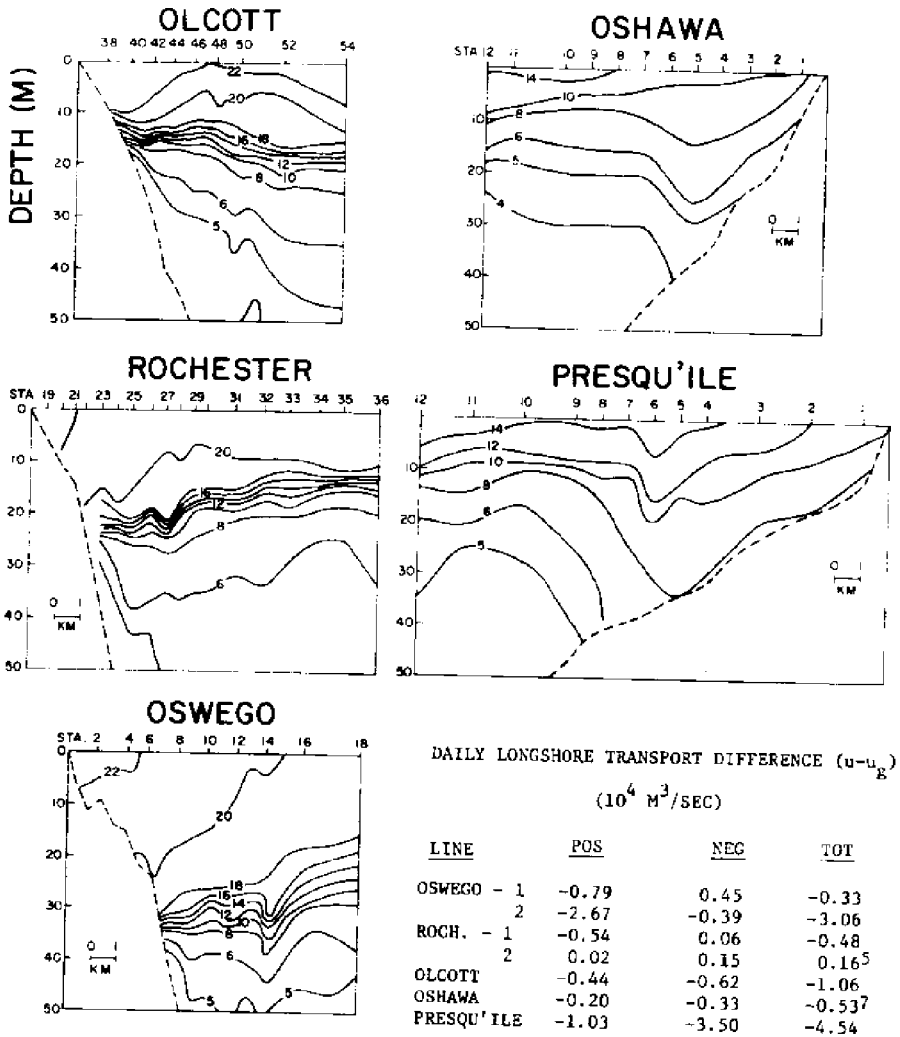


DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	5.34	-0.66	4.67
2	7.02	0.0	7.01
ROCH. - 1	3.09	-0.20	2.89_5
2	0.48	-0.17	0.31^5
OLCOTT	0.52	-1.75	-1.23_7
OSHAWA	0.21	-0.12	0.09^7
PRESQU'ILE	1.03	-1.65	-0.62

CROSS SECTIONS OF TEMPERATURE

DATE: 7/29



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

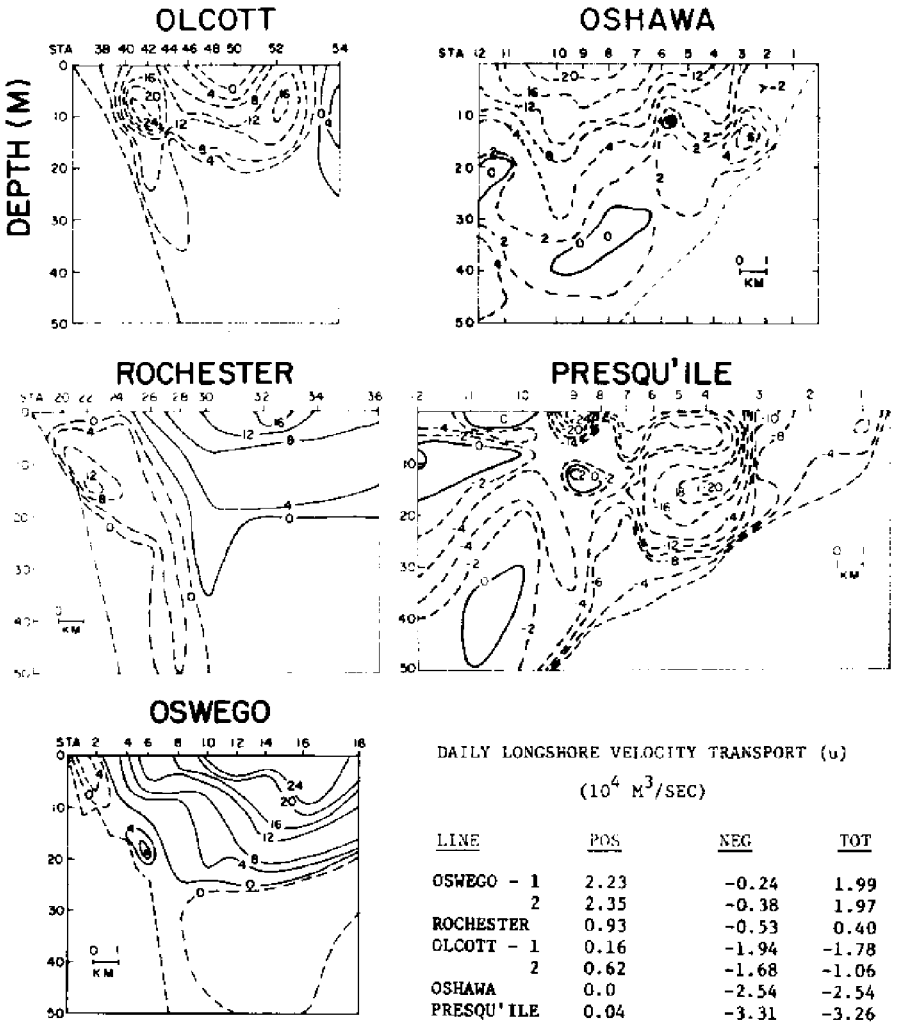
LINE	POS	NEG	TOT
OSWEGO - 1	-0.79	0.45	-0.33
2	-2.67	-0.39	-3.06
ROCH. - 1	-0.54	0.06	-0.48
2	0.02	0.15	0.165
OLCOTT	-0.44	-0.62	-1.06
OSHAWA	-0.20	-0.33	-0.537
PRESQU'ILE	-1.03	-3.50	-4.54

DATE: 7/29

HOURLY WIND SPEED AND STRESS

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	7.08	302	65	-40		4.28	274	27	- 1		3.25	289	22	- 4	
1	6.98	294	67	-29		4.01	295	22	- 9		2.50	257	19	0	
2	6.41	295	59	-26		4.61	282	32	- 5		2.46	296	17	- 7	
3	5.33	287	46	-14		5.26	272	42	0		3.46	305	7	-30	
4	5.30	287	41	-12		4.64	290	31	-10		3.39	308	- 5	-32	
5	4.61	300	28	-15		3.49	303	16	- 9		2.65	298	2	-29	
6	5.46	328	24	-37		3.17	305	12	- 8		3.03	307	3	-16	
7	5.64	334	23	-42		2.96	304	11	- 6		3.82	311	6	-23	
8	4.00	353	3	-23		3.05	297	12	- 5		4.22	309	3	-32	
9	3.77	001	0	-21		3.22	298	14	- 6		4.29	313	18	-21	
10	4.00	027	-10	-21		2.75	305	9	- 6		4.10	302	16	-20	
11	4.08	030	-11	-21		3.53	293	17	- 7		3.31	311	15	-17	
12	3.28	040	-10	-12		3.83	299	19	-10		2.96	301	6	- 7	
13	1.90	039	- 3	- 4		2.84	291	12	- 3		2.19	284	2	- 3	
14	2.08	005	0	- 5		3.15	304	13	- 7		2.06	295	1	- 2	
15	1.47	350	1	- 3		2.04	299	6	- 2		1.79	306	0	0	
16	1.83	253	5	2		2.07	293	6	- 2		1.71	237	0	0	
17	3.68	259	20	4		2.33	270	9	0		2.33	239	0	0	
18	4.91	241	32	18		3.05	246	13	6		2.54	244	3	- 2	
19	4.99	246	35	15		2.79	258	12	2		1.45	237	1	0	
20	4.92	277	37	- 3		3.26	251	15	5		1.62	254	2	0	
21	5.13	269	42	0		2.92	281	13	- 2		1.78	278	2	0	
22	5.17	280	41	- 6		2.45	277	9	0		1.21	276	5	-	
23	5.02	284	38	- 8		2.28	277	9	0		0.79	287	1	1	
AVER			23.9	-12.6	27.0	3.12	286	16	- 4	16			6	-11	12

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 7/30

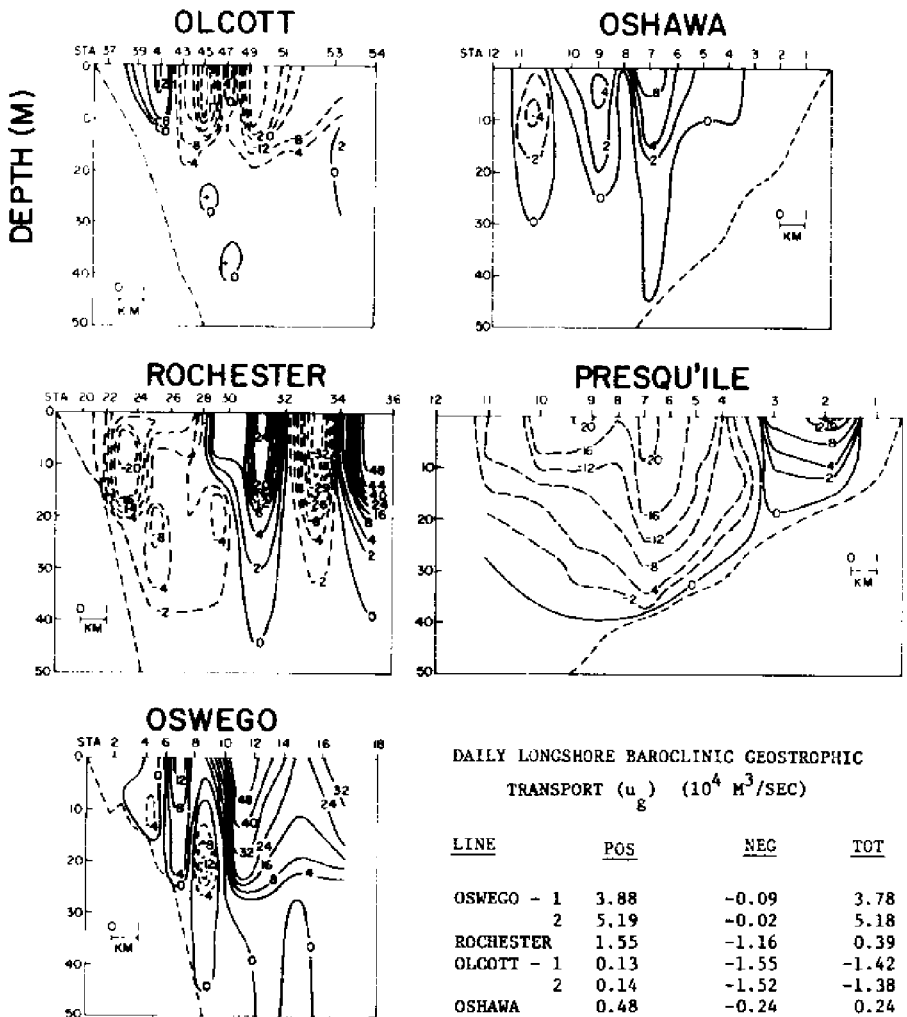


DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	2.23	-0.24	1.99
2	2.35	-0.38	1.97
ROCHESTER	0.93	-0.53	0.40
OLCOTT - 1	0.16	-1.94	-1.78
2	0.62	-1.68	-1.06
OSHAWA	0.0	-2.54	-2.54
PRESQU'ILE	0.04	-3.31	-3.26

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 7/30

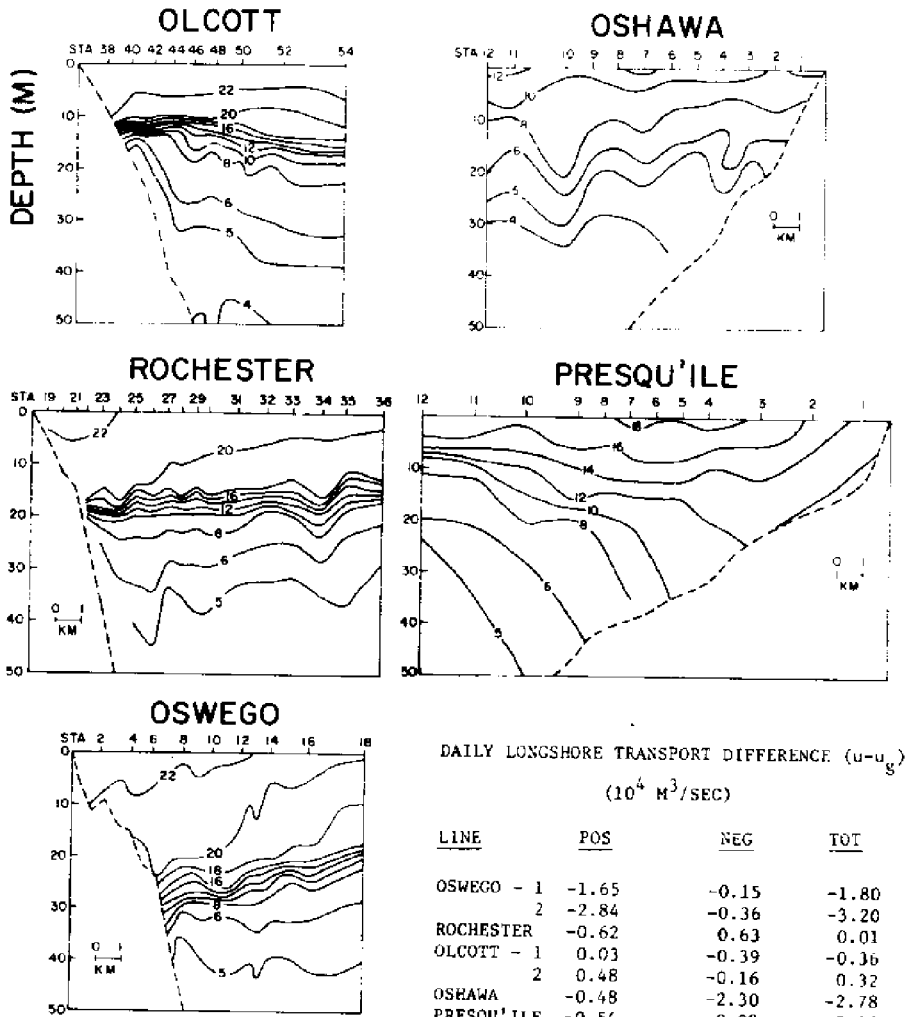


DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	3.88	-0.09	3.78
2	5.19	-0.02	5.18
ROCHESTER	1.55	-1.16	0.39
OLCOTT - 1	0.13	-1.55	-1.42
2	0.14	-1.52	-1.38
OSHAWA	0.48	-0.24	0.24
PRESQU'ILE	0.58	-3.39	-2.81

CROSS SECTIONS OF TEMPERATURE

DATE: 7/30



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

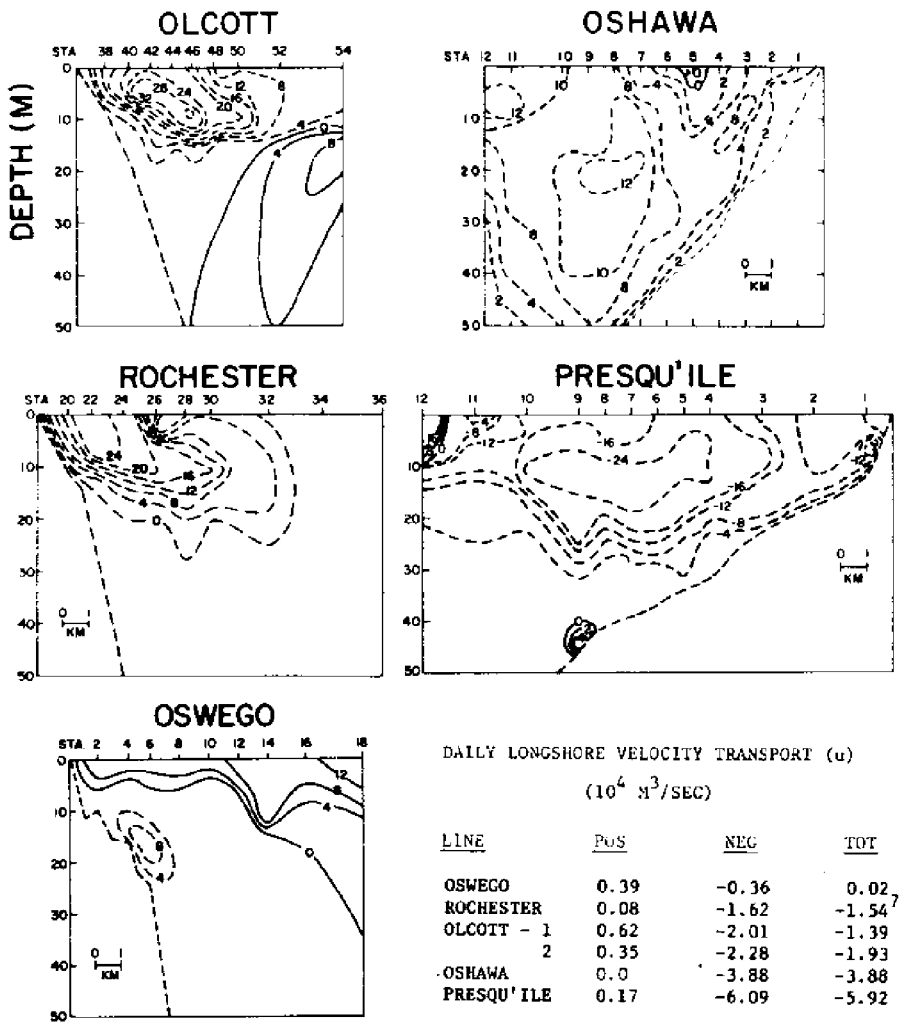
LINE	POS	NEG	TOT
OSWEGO - 1	-1.65	-0.15	-1.80
2	-2.84	-0.36	-3.20
ROCHESTER	-0.62	0.63	0.01
OLCOTT - 1	0.03	-0.39	-0.36
2	0.48	-0.16	0.32
OSHAWA	-0.48	-2.30	-2.78
PRESQU'ILE	-0.54	0.08	-0.46

DATE: 7/30

HOURLY WIND SPEED AND STRESS

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	5.07	301	33	-19		1.42	283	3	0		0.13	354	0	0	
1	4.52	302	29	-17		1.11	301	2	0		1.32	025	0	0	
2	4.31	300	29	-15		0.79	313	1	0		1.37	357	0	0	
3	4.39	311	23	-20		1.73	311	3	- 2		0.44	319	0	0	
4	3.21	294	16	- 6		1.87	310	4	- 2		0.52	291	1	5	
5	3.17	321	10	-11		2.49	309	7	- 5		1.06	019	1	6	
6	2.87	317	8	- 8		2.29	309	6	- 4		1.59	032	0	1	
7	2.05	314	5	- 3		2.00	308	5	- 3		0.87	032	15	8	
8	1.49	321	2	- 2		0.89	309	1	0		0.70	207	3	1	
9	0.66	320	0	0		0.88	308	2	0		0.87	135	6	14	
10	0.61	024	0	0		1.26	308	2	- 1		0.82	105	6	17	
11	2.11	064	- 5	- 2		1.08	308	2	0		1.00	112	12	19	
12	1.17	075	- 1	0		1.55	283	4	0		0.42	124	8	17	
13	2.79	245	11	5		1.82	220	3	4		1.99	204	1	9	
14	2.44	259	9	2		2.35	227	6	6		1.14	203	1	13	
15	2.53	247	9	4		1.36	219	2	2		0.21	153	3	9	
16	2.28	229	6	5		0.92	214	1	1		1.65	035	0	0	
17	1.89	226	4	4		0.28	108	0	0		2.52	045	- 4	- 5	
18	1.62	234	3	2		1.39	106	- 2	1		2.58	057	-20	- 7	
19	1.85	277	5	0		2.09	126	- 4	4		2.79	084	-24	-16	
20	2.18	296	6	- 2		1.99	115	- 4	3		2.65	087	-36	- 7	
21	2.02	298	5	- 2		2.16	123	- 5	4		2.76	096	-36	- 9	
22	2.43	299	8	- 3		1.81	121	- 3	3		3.06	105	-45	- 9	
23	2.18	313	5	- 4		1.30	132	- 1	2		3.61	126	-45	15	
AVE			9.2	- 3.8	9.9	0.44	273.1	1	0	1			- 7	4	8

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 7/31

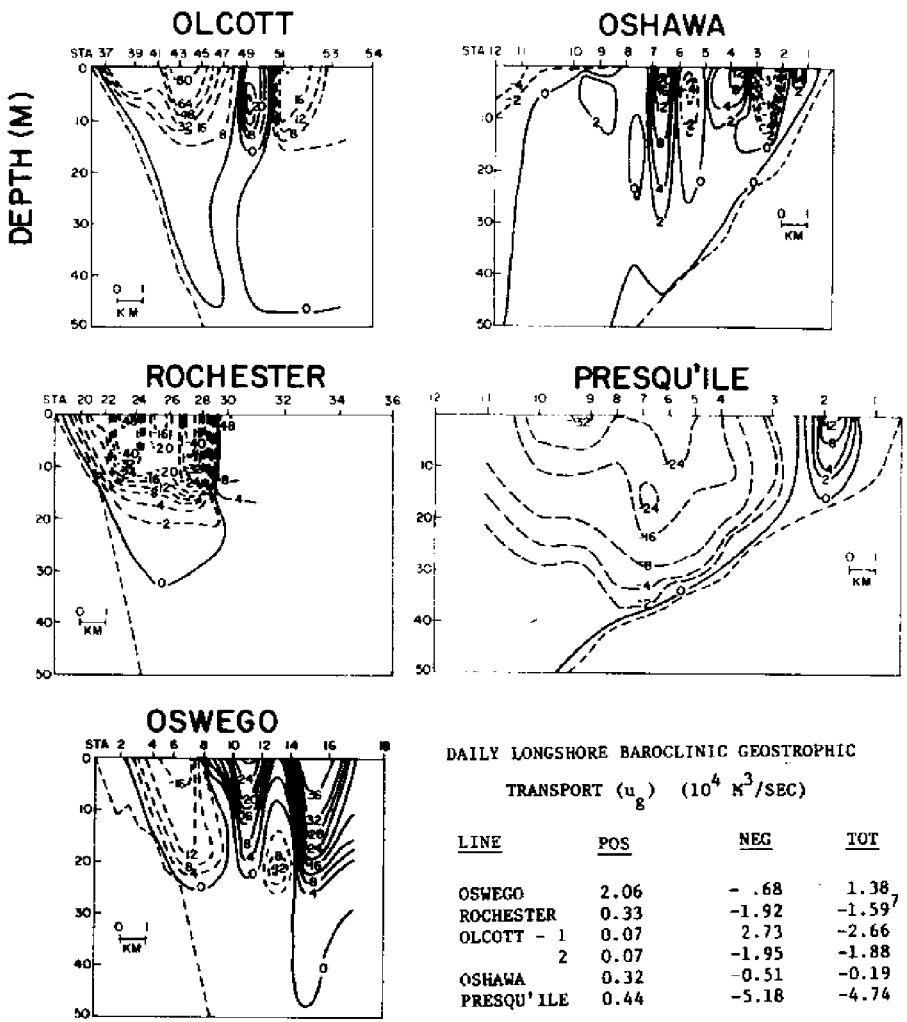


DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.39	-0.36	0.02
ROCHESTER	0.08	-1.62	-1.54
OLCOTT - 1	0.62	-2.01	-1.39
2	0.35	-2.28	-1.93
OSHAWA	0.0	-3.88	-3.88
PRESQU'ILE	0.17	-6.09	-5.92

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 7/31

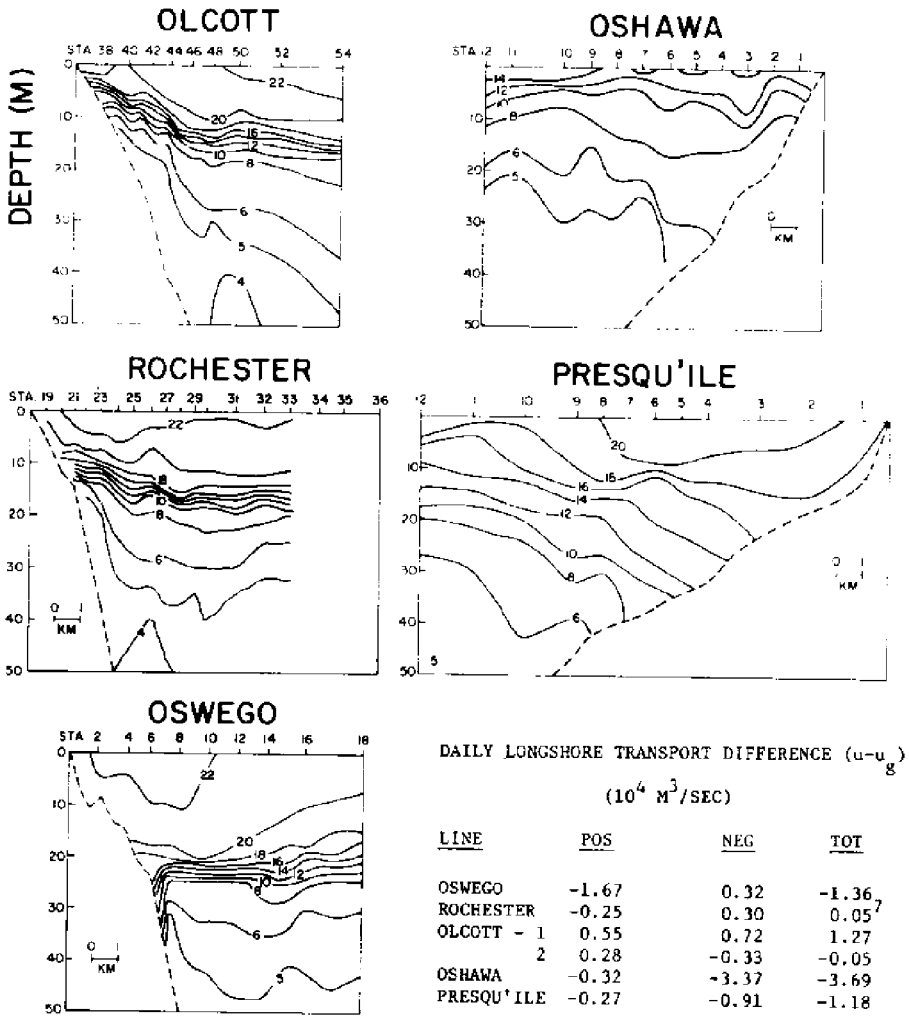


DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	2.06	- .68	1.38
ROCHESTER	0.33	-1.92	-1.59
OLCOTT - 1	0.07	2.73	-2.66
2	0.07	-1.95	-1.88
OSHAWA	0.32	-0.51	-0.19
PRESQU'ILE	0.44	-5.18	-4.74

CROSS SECTIONS OF TEMPERATURE

DATE: 7/31



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	-1.67	0.32	-1.36
ROCHESTER	-0.25	0.30	0.05
OLCOTT - 1	0.55	0.72	1.27
2	0.28	-0.33	-0.05
OSHAWA	-0.32	-3.37	-3.69
PRESQU'ILE	-0.27	-0.91	-1.18

DATE: 7/31

HOURLY WIND SPEED AND STRESS

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	0.85	282	1	0	
1	0.86	149	0	1	
2	2.15	160	- 1	7	
3	3.32	163	- 4	15	
4	3.66	166	- 4	19	
5	4.54	171	- 4	30	
6	4.61	192	6	31	
7	4.94	189	6	37	
8	5.89	186	5	51	
9	5.73	183	3	49	
10	6.12	202	22	53	
11	6.04	202	21	50	
12	6.25	192	11	57	
13	5.90	198	17	53	
14	5.04	207	19	36	
15	4.94	201	14	37	
16	4.10	226	19	19	
17	3.20	233	12	10	
18	3.04	230	10	9	
19	3.27	222	11	12	
20	3.10	204	6	13	
21	2.32	201	3	8	
22	2.40	200	3	8	
23	4.21	202	11	25	
AVER			7.8	26.3	27.4

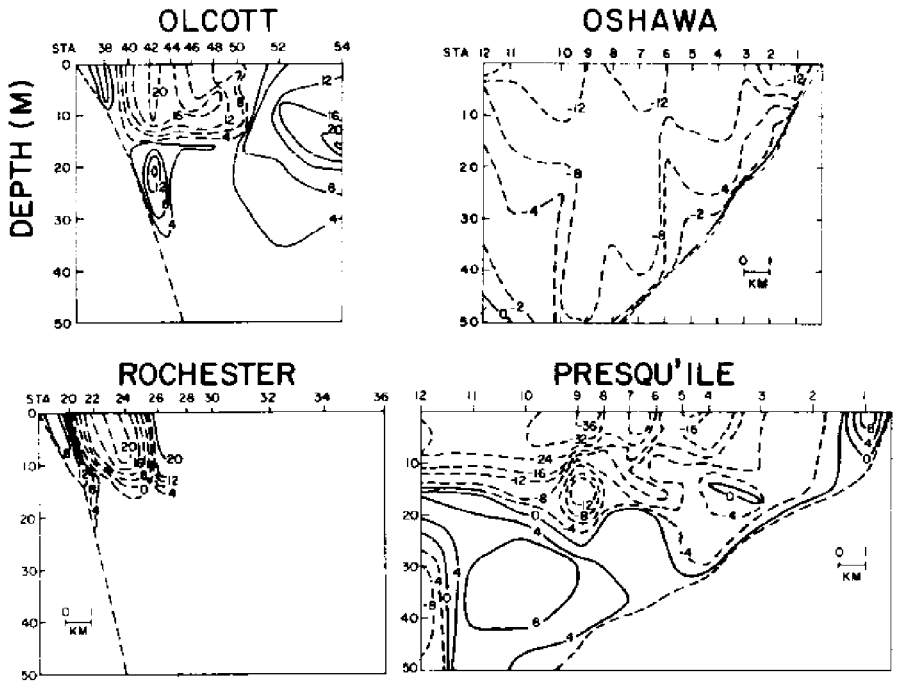
BUOY 10 (ROCHESTER & PRESQU'ILE)

WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
2.58	145	- 5	8	
2.65	154	- 4	9	
2.45	152	- 3	8	
3.26	167	- 3	15	
3.70	172	- 2	20	
3.36	166	- 3	16	
3.68	180	0	21	
3.65	182	1	21	
3.00	183	1	14	
3.90	207	11	20	
4.17	224	18	18	
4.12	225	18	18	
3.94	206	10	21	
3.42	224	12	13	
3.81	215	12	18	
3.04	221	9	11	
2.96	222	9	10	
1.69	210	2	4	
0.92	191	1	2	
1.41	139	- 1	3	
1.37	128	- 1	2	
2.44	122	- 2	5	
2.95	125	- 9	7	
2.73	111	- 7	7	
2.47	184	2	12	12

BUOY 5 (OLCOTT & OSHAWA)

WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
3.53	134	-43	18	
3.30	133	-36	40	
3.26	132	-38	27	
3.42	154	-27	31	
3.56	166	-15	36	
4.03	176	1	36	
3.45	184	14	47	
3.15	192	18	41	
1.67	209	27	27	
0.69	217	23	30	
2.53	202	24	31	
2.86	216	24	26	
2.84	226	21	22	
3.06	225	17	16	
3.25	223	14	5	
2.85	238	14	0	
2.10	233	6	- 2	
1.27	222	3	- 7	
0.88	298	2	-12	
0.62	350	0	- 5	
0.79	131	- 2	0	
2.69	145	-12	8	
3.06	142	-29	14	
3.40	148	-30	12	
		- 1	18	18

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 8/1

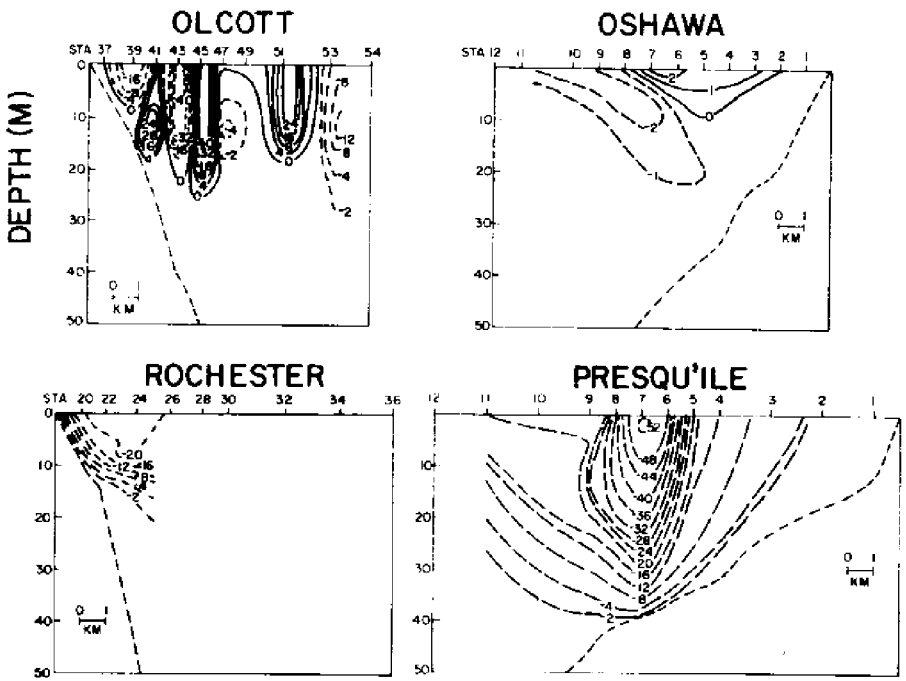


DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	0.33	-1.05	-0.72
2	0.28	-0.75	-0.47
ROCHESTER	0.23	-0.68	-0.45
OLCOTT - 1	1.51	-1.18	0.33
2	1.14	-0.84	0.31
OSHAWA	0.0	-3.59	-3.59
PRESQU'ILE	1.51	-4.26	-2.75

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 8/1

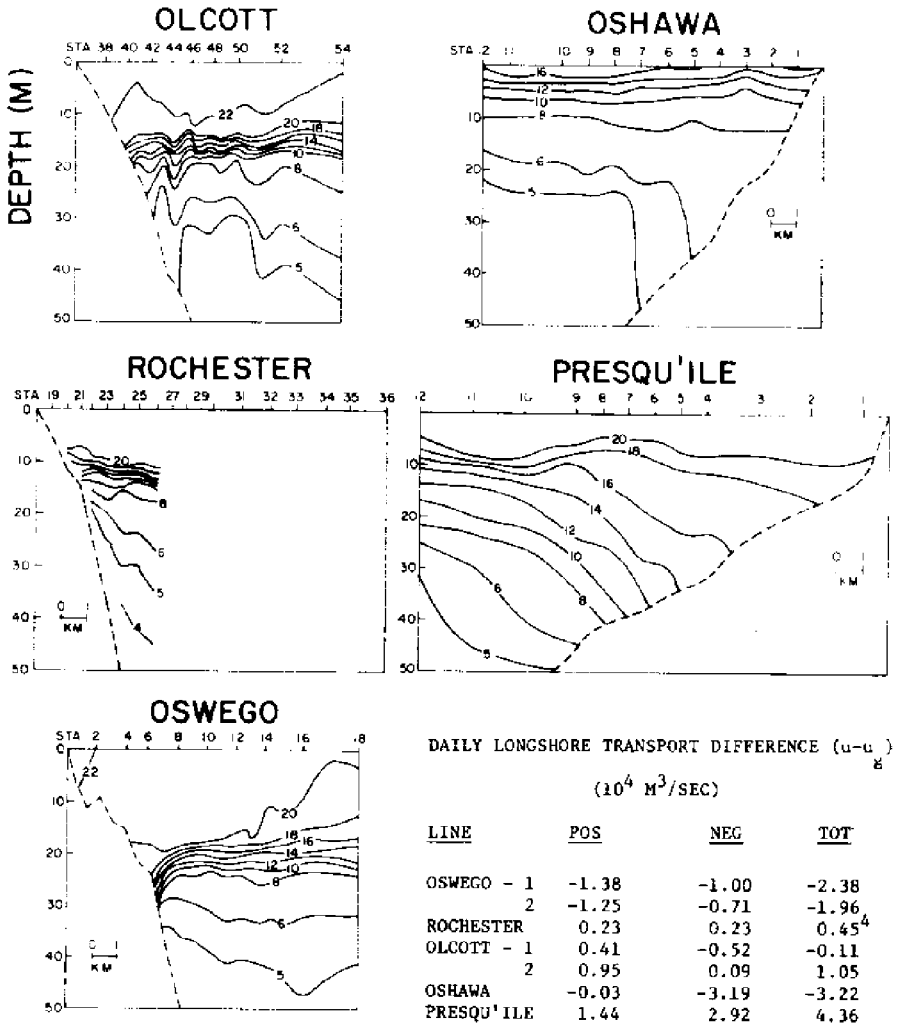


DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	1.71	-0.05	1.66
2	1.53	-0.04	1.48
ROCHESTER	0.0	-0.91	-0.91
OLCOTT - 1	1.10	-0.65	0.44
2	0.19	-0.93	-0.74
OSHAWA	0.03	-0.40	-0.37
PRESQU'ILE	0.07	-7.18	-7.11

CROSS SECTIONS OF TEMPERATURE

DATE: 8/1



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	-1.38	-1.00	-2.38
2	-1.25	-0.71	-1.96
ROCHESTER	0.23	0.23	0.45[4]
OLCOTT - 1	0.41	-0.52	-0.11
2	0.95	0.09	1.05
OSHAWA	-0.03	-3.19	-3.22
PRESQU'ILE	1.44	2.92	4.36

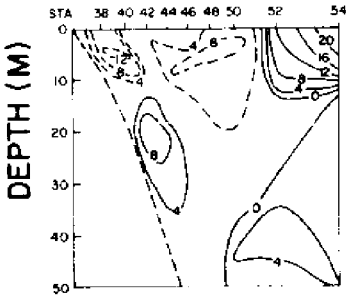
DATE: 8/1

HOURLY WIND SPEED AND STRESS

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	6.27	203	23	54		2.88	152	- 5	12		3.50	149	-15	16	
1	6.87	210	35	61		5.39	186	4	42		3.18	181	15	15	
2	6.63	208	31	58		4.66	182	2	35		2.59	177	45	21	
3	6.69	198	22	68		4.50	186	3	31		3.30	219	59	34	
4	6.64	198	21	65		4.41	196	9	29		5.21	240	66	38	
5	6.69	204	27	60		5.68	259	49	9		5.38	255	63	32	
6	6.13	216	34	46		6.83	244	65	30		5.73	242	50	36	
7	6.01	236	44	30		6.05	273	59	- 2		5.70	281	40	28	
8	5.44	249	44	16		5.07	307	32	-24		4.01	296	45	17	
9	4.01	329	19	-25		2.89	315	10	-10		0.40	016	67	- 3	
10	0.76	202	1	1		1.98	255	6	2		1.01	202	59	4	
11	4.38	239	25	15		2.71	229	8	7		2.46	262	51	9	
12	4.05	265	28	1		3.37	245	16	7		2.91	274	54	12	
13	6.68	273	67	- 2		4.16	264	28	2		4.32	265	52	24	
14	5.74	293	46	-19		5.28	265	42	5		4.00	283	54	0	
15	5.45	284	46	-10		4.38	302	25	-16		3.94	299	38	1	
16	7.32	272	81	- 3		3.81	294	21	- 8		3.32	289	25	-13	
17	5.68	292	47	-17		4.01	265	24	2		3.35	262	21	-20	
18	4.10	297	25	-13		4.32	289	26	- 8		2.75	272	7	-16	
19	4.68	295	31	-14		4.37	289	27	- 8		3.23	283	11	-16	
20	4.63	283	34	- 7		4.63	276	32	- 2		3.26	262	13	- 6	
21	5.12	283	40	- 8		4.42	271	29	0		3.64	261	27	13	
22	4.07	275	30	- 2		3.60	279	19	- 2		3.50	250	23	8	
23	3.86	281	25	- 5		3.01	272	15	0		3.56	269	5	3	
AVER			34.4	14.6	37.4	3.26	257	23	5	23			37	10	38

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 8/2

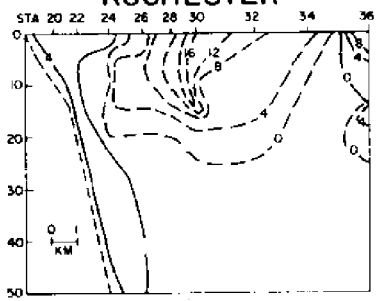
OLCOTT



OSHAWA

no data

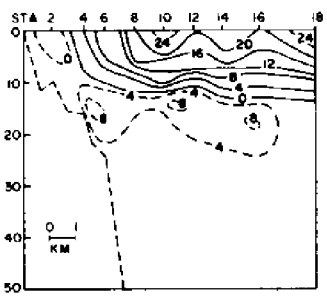
ROCHESTER



PRESQU'ILE

no data

OSWEGO



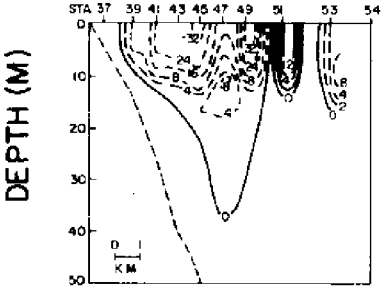
DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	0.17	-0.01	0.16^5
2	1.13	-0.59	0.55
ROCH. - 1	0.45	-0.98	-0.52
2	0.96	-0.57	0.39
OLCOTT - 1	1.15	-0.80	0.35
2	0.25	-0.40	-0.15^5
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 8/2

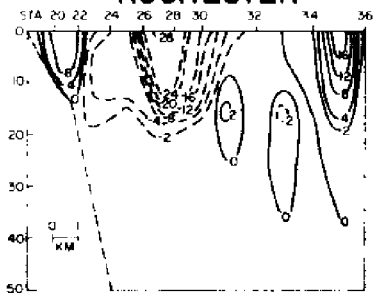
OLCOTT



OSHAWA

no data

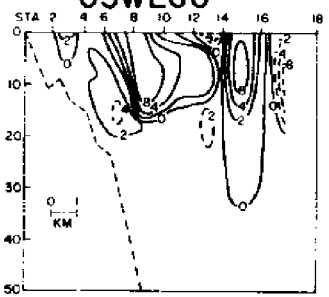
ROCHESTER



PRESQU'ILE

no data

OSWEGO



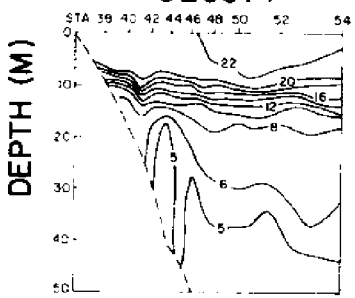
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	0.42	-0.27	0.14^5
2	1.02	-0.61	0.41
ROCH. - 1	0.60	-1.10	-0.49
2	0.03	-1.24	-1.20
OLCOTT - 1	0.10	-1.46	-1.36
2	0.01	-0.41	-0.39^5
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

CROSS SECTIONS OF TEMPERATURE

DATE: 8/2

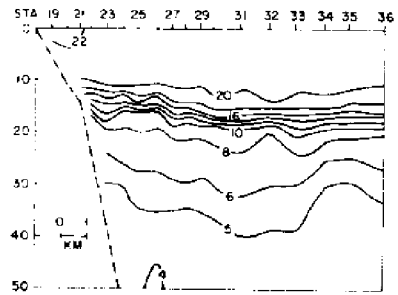
OLCOTT



OSHAWA

no data

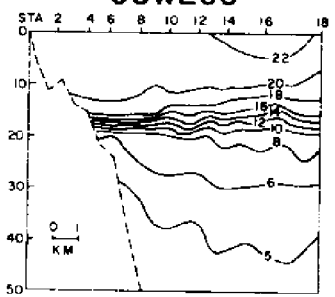
ROCHESTER



PRESQU'ILE

no data

OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	-0.25	0.26	0.02^5
2	0.11	0.02	0.14
ROCH. - 1	-0.15	0.12	-0.03
2	0.93	0.67	1.59
OLCOTT - 1	1.05	0.66	1.71_5
2	0.24	0.01	0.24^5
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

DATE: 8/2

HOURLY WIND SPEED AND STRESS

BUOY 5 (OLCOTT & OSHAWA)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	2.80	303	0	0	0
1	3.65	335	0	- 1	
2	2.67	330	0	- 5	
3	0.54	282	0	0	
4	0.10	236	- 3	- 3	
5	0.55	210	- 6	- 1	
6	0.41	360	- 3	2	
7	2.06	052	- 4	6	
8	4.86	092	- 8	8	
9	7.93	092	-11	11	
10	6.56	083	-12	10	
11	6.47	089	- 4	16	
12	5.35	093	- 1	12	
13	6.19	057	11	13	
14	5.29	087	15	29	
15	3.55	095	3	23	
16	2.32	107	9	14	
17	2.15	089	6	6	
18	2.27	089	1	2	
19	1.51	099	- 4	-15	
20	2.67	036	-10	-28	
21	2.56	069	-28	-20	
22	2.71	077	-23	-16	
23	5.24	112	-53	9	
AVER			- 6	3	6

BUOY 10 (ROCHESTER & PRESQU'ILE)

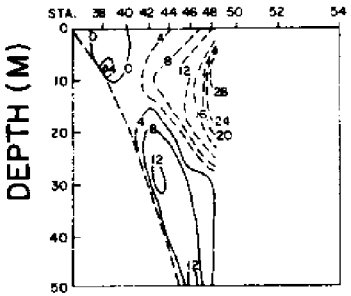
TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	3.21	257	15	3	
1	3.05	266	14	1	
2	2.48	301	8	- 4	
3	2.15	279	7	0	
4	2.11	268	7	0	
5	1.94	269	6	0	
6	2.25	003	0	- 7	
7	4.00	100	-23	4	
8	5.42	123	-37	26	
9	7.57	131	-63	56	
10	7.78	128	-71	55	
11	7.23	133	-56	53	
12	6.10	134	-39	39	
13	6.06	162	-17	56	
14	5.40	170	- 6	44	
15	4.71	167	- 6	32	
16	4.44	171	- 4	29	
17	4.25	179	0	27	
18	3.96	186	3	24	
19	1.89	188	1	6	
20	0.64	130	0	1	
21	1.97	115	- 4	2	
22	2.26	127	- 5	5	
23	4.29	135	-18	19	
AVER	2.56	154	-13	20	23

BUOY 11 (OSWEGO)

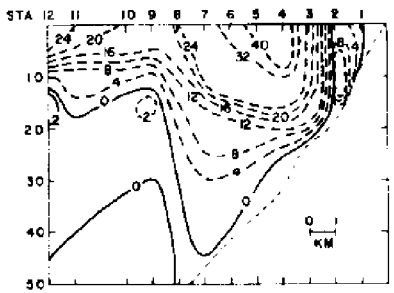
TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	3.84	289	21	- 7	
1	4.05	262	24	4	
2	3.56	288	18	- 5	
3	4.13	294	24	-10	
4	3.19	315	13	-12	
5	4.39	055	-29	-16	
6	6.73	088	-67	- 1	
7	5.83	099	-51	8	
8	7.92	096	-91	9	
9	7.15	093	-78	4	
10	7.08	105	-71	19	
11	5.27	125	-35	25	
12	5.05	127	-30	23	
13	6.29	123	-50	34	
14	6.59	125	-54	38	
15	7.27	147	-43	66	
16	6.44	162	-19	62	
17	7.48	157	-35	84	
18	8.28	172	-14	100	
19	7.33	175	- 6	83	
20	5.47	163	-12	45	
21	4.21	168	- 6	27	
22	3.79	160	- 7	13	
23	3.79	154	- 8	19	
AVER			-25.3	25.9	36.2

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 8/3

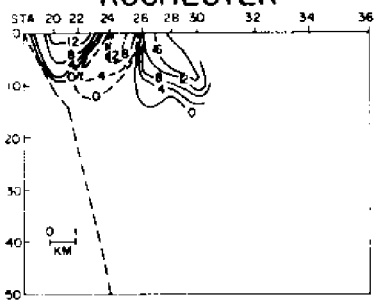
OLCOTT



OSHAWA



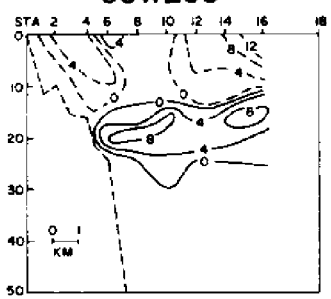
ROCHESTER



PRESQU'ILE

no data

OSWEGO



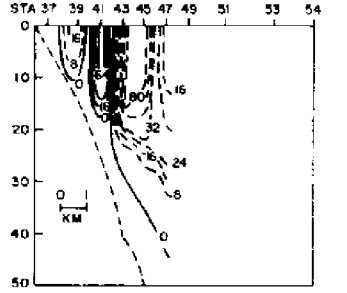
DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

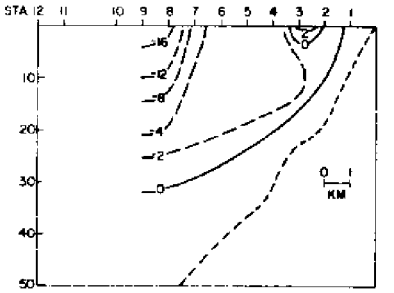
LINE	POS	NEG	TOT
OSWEGO - 1	0.37	-0.86	-0.49_8
2	0.44	-0.42	0.02^8
ROCHESTER	0.73	-0.14	0.58^6
OLCOTT	0.62	-0.90	-0.28^6
OSHAWA	0.02	-4.39	-4.38^8
PRESQU'ILE	---	---	---

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 8/3

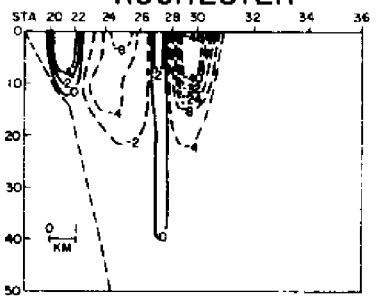
OLCOTT



OSHAWA



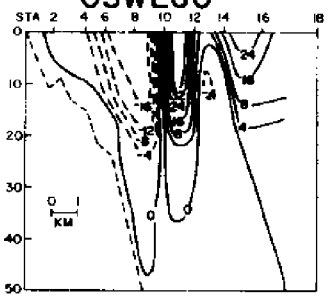
ROCHESTER



PRESQU'ILE

no data

OSWEGO



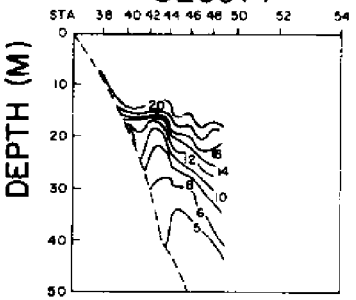
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	1.33	-0.59	0.74
2	2.06	-0.15	1.91^8
ROCHESTER	0.05	-1.02	-0.97^6
OLCOTT	0.39	-4.04	-3.65^6
OSHAWA	0.13	-1.54	-1.41^8
PRESQU'ILE	---	---	---

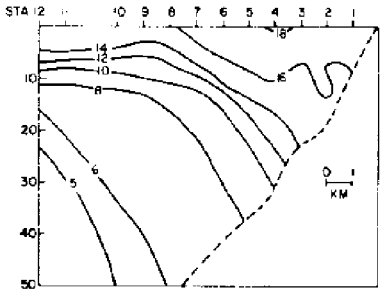
CROSS SECTIONS OF TEMPERATURE

DATE: 8/3

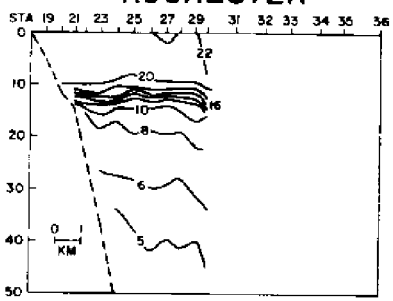
OLCOTT



OSHAWA



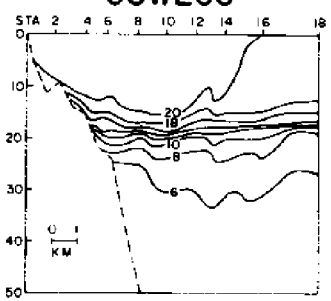
ROCHESTER



PRESQU'ILE

no data

OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	-1.96	-0.27	-1.22
2	-1.62	-0.27	-1.89^8
ROCHESTER	0.68	0.88	1.55^6
OLCOTT	0.23	3.14	3.37^6
OSHAWA	-0.11	-2.85	-2.97^8
PRESQU'ILE	---	---	---

HOURLY WIND SPEED AND STRESS

DATE: 8/3

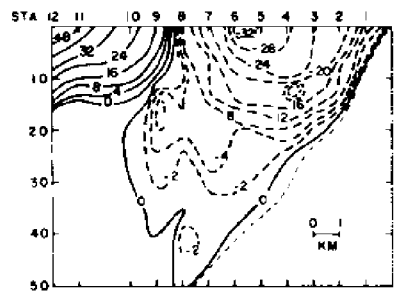
TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	4.07	168	- 2	29		4.20	134	-18	18		5.44	122	-39	28	
1	5.79	184	3	50		4.27	140	-16	21		5.78	115	-29	39	
2	5.44	170	- 7	43		3.89	149	-11	19		5.01	143	-36	53	
3	6.33	181	1	63		5.43	167	- 9	43		6.31	168	-19	52	
4	6.86	183	3	73		7.36	172	-10	79		5.98	159	7	50	
5	7.06	189	12	73		6.92	174	- 6	70		5.49	198	31	37	
6	7.40	184	6	82		7.23	183	5	76		5.34	238	35	44	
7	7.67	187	10	89		6.63	190	12	64		7.12	243	70	34	
8	7.00	203	32	73		6.28	213	32	49		7.70	233	89	9	
9	7.58	202	34	81		6.72	238	56	35		6.94	255	61	19	
10	7.46	220	54	64		6.63	240	55	32		6.04	258	65	7	
11	6.88	225	51	51		6.83	245	61	29		6.13	254	52	12	
12	6.28	242	52	28		6.03	245	48	22		5.70	258	51	12	
13	5.37	245	43	19		6.30	255	56	15		5.05	251	71	5	
14	5.72	275	49	- 4		6.84	265	69	6		5.60	260	73	-15	
15	6.58	274	64	- 4		7.19	255	73	19		5.07	270	73	- 7	
16	5.89	265	58	4		7.58	256	82	21		5.13	254	83	14	
17	7.15	259	79	15		8.08	276	97	- 9		6.05	250	80	4	
18	7.64	267	89	4		8.75	259	112	21		6.30	257	80	- 6	
19	6.23	268	64	1		8.44	273	106	- 5		5.91	266	52	11	
20	7.10	281	77	-14		6.65	264	66	8		4.93	259	26	3	
21	7.56	286	83	-22		5.70	268	48	2		4.10	260	28	5	
22	8.02	302	82	-50		6.48	260	62	11		5.51	309	40	-34	
23	6.84	303	58	-38		6.86	268	70	2		3.59	293	14	-28	
AVER			41.5	29.6	50.9	4.89	234	43	27	51			40	14	42

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 8/4

OLCOTT

no data

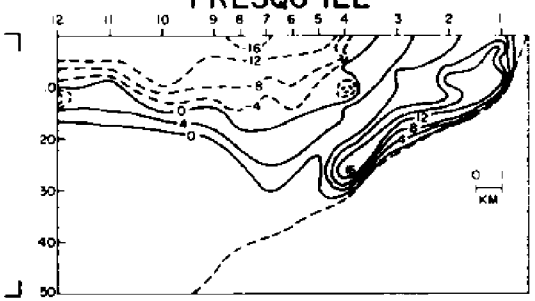
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

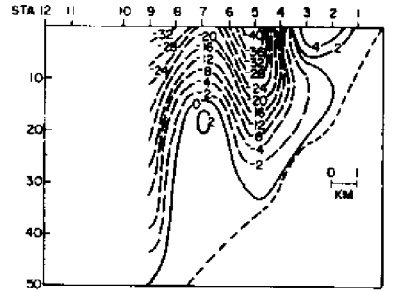
LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	1.48	-2.51	-1.02[11]
PRESQU'ILE	1.00	-1.45	-0.46

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 8/4

OLCOTT

no data

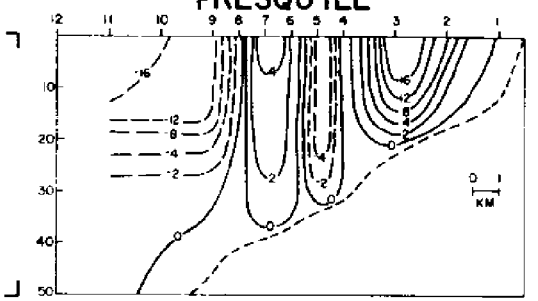
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.20	-2.83	-2.64[11]
PRESQU'ILE	1.16	-2.56	-1.41

CROSS SECTIONS OF TEMPERATURE

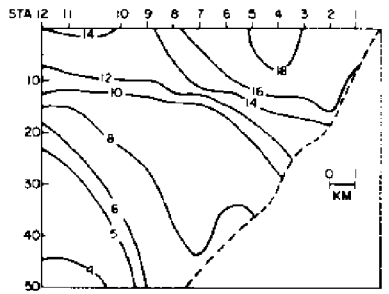
DATE: 8/4

DEPTH (M)

OLCOTT

no data

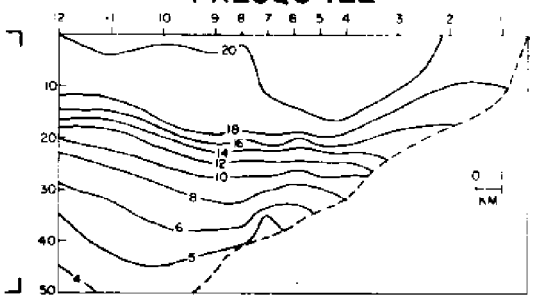
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	1.28	0.32	1.61[11]
PRESQU'ILE	-0.16	1.11	0.95

HOURLY WIND SPEED AND STRESS

DATE: 8/4

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	4.97	311	31	-26	
1	3.91	344	2	-32	
2	8.45	001	0	-112	
3	8.14	015	-33	-109	
4	9.86	020	-49	-137	
5	8.98	046	-96	-97	
6	9.72	046	-109	-108	
7	10.37	039	-102	-124	
8	9.35	048	-106	-94	
9	9.57	038	-92	-117	
10	9.56	033	-76	-119	
11	8.74	055	-104	-72	
12	8.62	048	-89	-80	
13	8.20	067	-100	-43	
14	7.18	060	-73	-41	
15	7.02	056	-61	-43	
16	5.79	039	-32	-41	
17	4.47	027	-13	-28	
18	4.83	022	-13	-33	
19	4.32	015	- 6	-28	
20	2.34	034	- 4	- 6	
21	2.09	028	- 3	- 6	
22	4.06	257	25	6	
23	4.59	267	34	3	
AVER			-44.5	-62.0	76.3

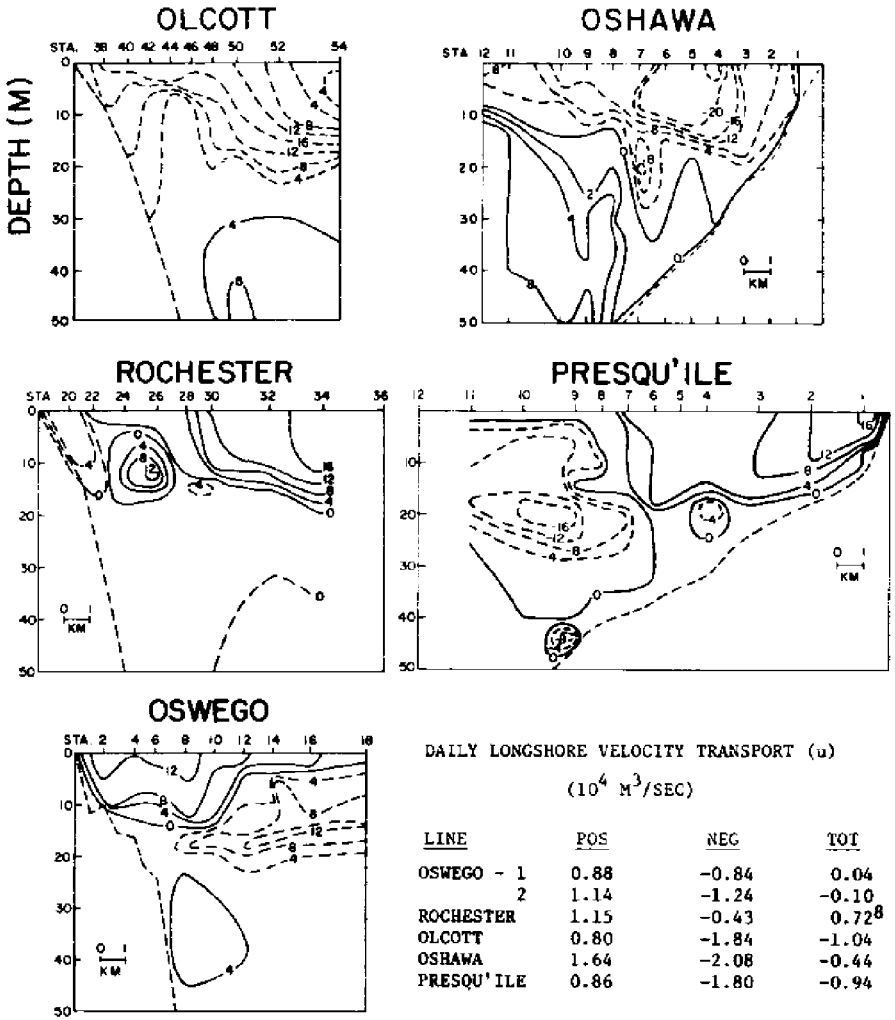
BUOY 10 (ROCHESTER & PRESQU'ILE)

	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
	5.45	265	44	4	
	5.59	289	45	-15	
	6.35	329	32	-53	
	6.23	038	-37	-57	
	7.20	084	-79	- 6	
	7.53	098	-86	13	
	9.41	139	-89	102	
	9.96	128	-119	92	
	9.74	125	-117	82	
	9.23	116	-119	59	
	9.49	123	-114	76	
	10.43	122	-138	86	
	8.39	086	-127	- 7	
	7.54	111	-89	37	
	6.36	085	-65	- 5	
	9.40	078	-33	- 6	
	3.58	086	-23	- 1	
	3.12	047	-10	- 9	
	1.51	001	0	- 3	
	1.08	292	2	0	
	2.66	258	10	2	
	3.57	262	19	3	
	4.09	256	24	6	
	4.16	264	27	3	
	2.98	107	-44	16	47

BUOY 5 (OLCOTT & OSHAWA)

	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
	4.82	328	1	-65	
	4.74	348	6	-85	
	5.13	347	-14	-84	
	4.87	350	6	-85	
	3.64	356	-13	-58	
	4.78	010	7	-49	
	8.16	038	-37	-74	
	9.07	036	-113	-82	
	8.03	026	-84	-90	
	8.14	051	-103	-61	
	8.08	032	-70	-64	
	8.08	066	-93	-38	
	8.01	075	-130	-16	
	7.02	063	-125	7	
	6.37	082	-75	-48	
	5.09	084	-72	-10	
	3.45	096	-36	-33	
	2.58	118	-31	- 9	
	3.04	164	-16	2	
	2.46	185	- 9	0	
	2.33	213	- 3	2	
	2.20	213	- 1	6	
	2.41	214	- 1	1	
	2.64	252	0	1	
			-43	-39	58

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 8/5

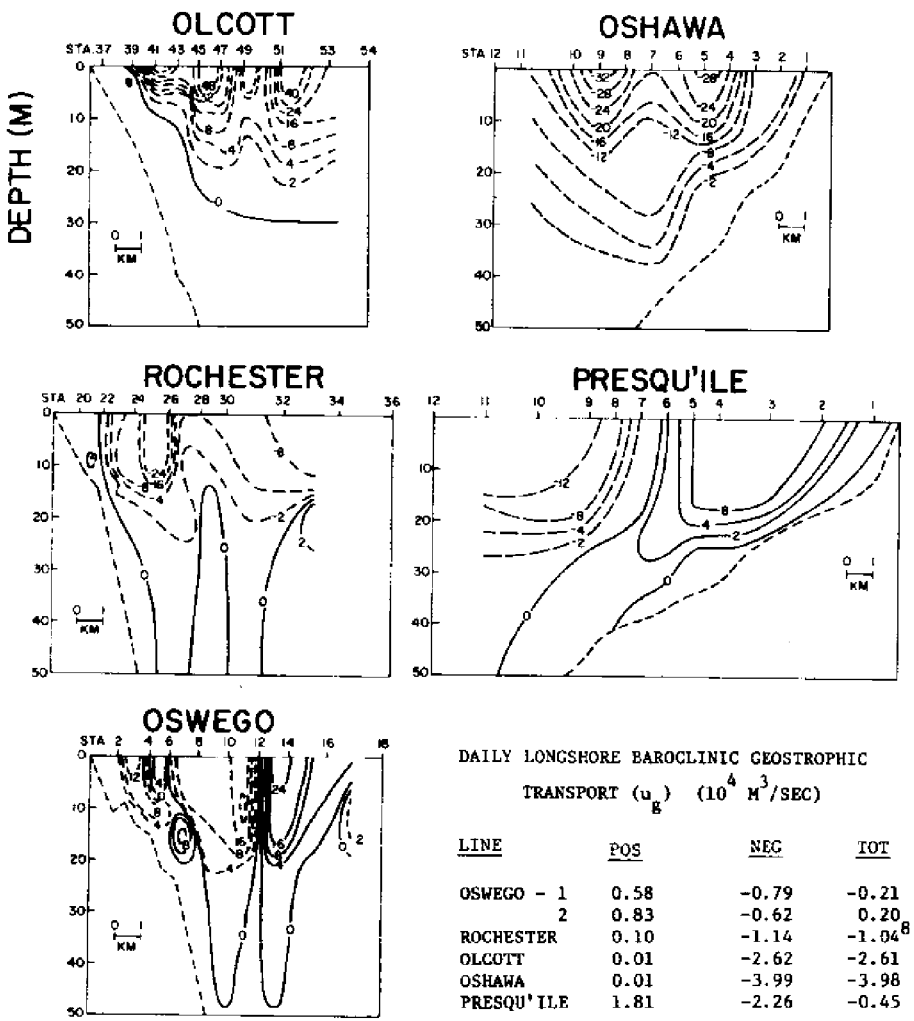


DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	0.88	-0.84	0.04
2	1.14	-1.24	-0.10
ROCHESTER	1.15	-0.43	0.72[8]
OLCOTT	0.80	-1.84	-1.04
OSHAWA	1.64	-2.08	-0.44
PRESQU'ILE	0.86	-1.80	-0.94

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 8/5

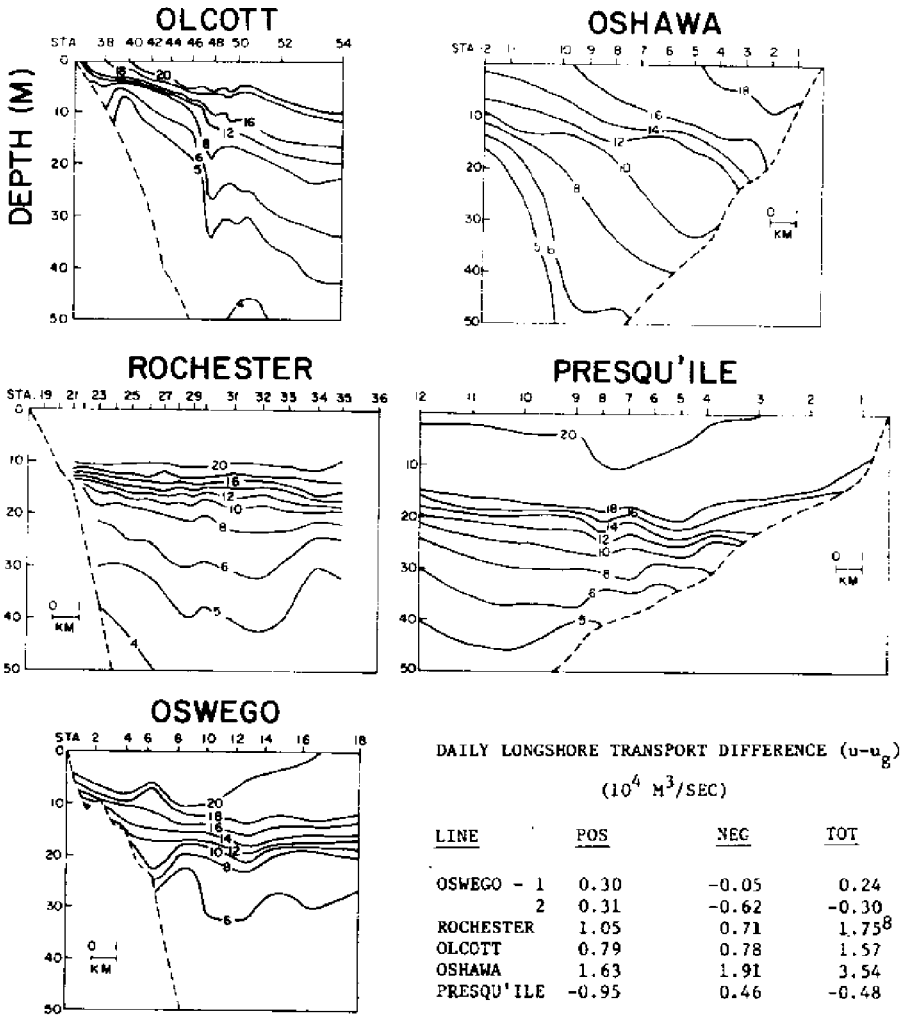


DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	0.58	-0.79	-0.21
2	0.83	-0.62	0.20
ROCHESTER	0.10	-1.14	-1.04[8]
OLCOTT	0.01	-2.62	-2.61
OSHAWA	0.01	-3.99	-3.98
PRESQU'ILE	1.81	-2.26	-0.45

CROSS SECTIONS OF TEMPERATURE

DATE: 8/5



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

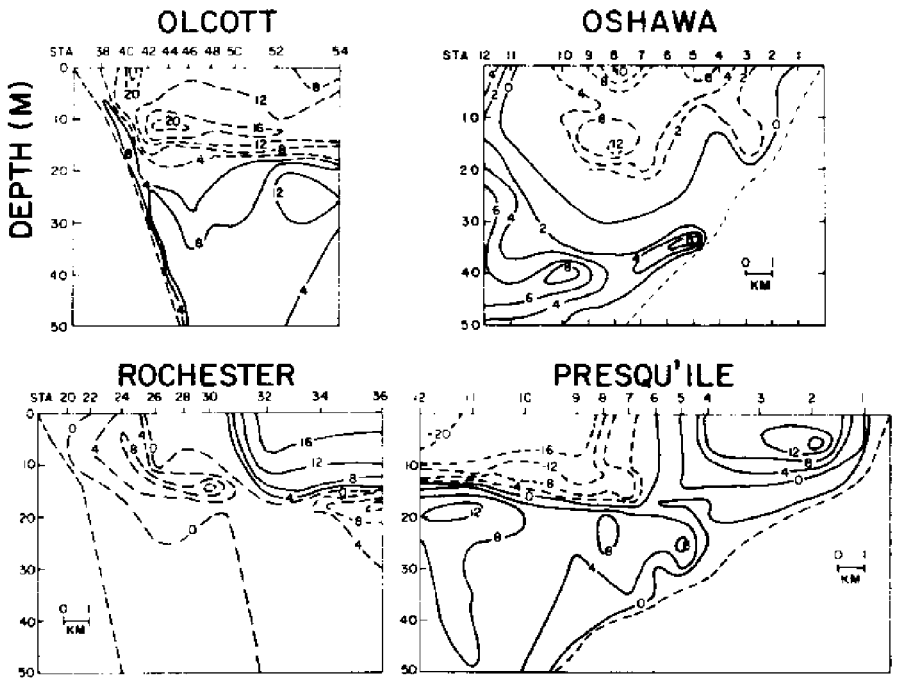
LINE	POS	NEG	TOT
OSWEGO - 1	0.30	-0.05	0.24
2	0.31	-0.62	-0.30
ROCHESTER	1.05	0.71	1.75[8]
OLCOTT	0.79	0.78	1.57
OSHAWA	1.63	1.91	3.54
PRESQU'ILE	-0.95	0.46	-0.48

DATE: 8/5

HOURLY WIND SPEED AND STRESS

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	5.49	263	46	6		4.41	266	29	2		2.94	256	1	2	
1	5.70	260	50	9		4.62	273	33	-1		1.79	273	0	0	
2	5.18	270	42	0		4.46	299	28	-14		2.98	301	3	0	
3	5.05	292	36	-14		4.32	307	22	-16		2.15	293	2	-1	
4	4.07	293	23	-9		4.19	296	24	-10		2.34	315	1	-2	
5	2.59	274	13	0		4.05	293	23	-9		2.48	296	4	-12	
6	2.20	325	5	-6		4.26	296	25	-11		2.53	321	15	-18	
7	2.24	332	4	-6		3.41	305	15	-9		1.87	352	-1	-15	
8	2.18	320	5	-5		3.05	327	8	-11		1.47	000	-1	-9	
9	2.50	323	6	-7		2.10	316	5	-4		0.90	343	-4	-4	
10	1.27	283	3	0		1.91	293	5	-1		0.69	300	2	5	
11	1.75	265	5	0		1.68	250	4	1		0.57	327	15	14	
12	2.01	248	6	3		1.30	245	2	1		1.36	316	27	19	
13	3.65	246	20	8		0.73	240	1	0		2.39	330	21	19	
14	4.64	256	32	8		3.00	243	12	7		1.85	326	25	-5	
15	5.16	252	39	12		2.96	251	13	5		0.87	329	9	0	
16	5.22	256	41	10		3.86	240	20	11		1.37	265	6	-1	
17	5.36	253	44	13		3.95	250	22	8		2.07	257	7	-6	
18	5.25	241	36	20		2.61	318	7	-7		2.11	301	14	-14	
19	4.24	270	28	0		2.66	329	6	-8		2.84	291	17	-24	
20	3.67	270	21	0		2.80	331	6	-9		1.86	266	15	-12	
21	2.86	275	13	0		1.33	314	2	-1		1.42	225	8	-7	
22	2.73	278	11	-1		1.66	286	4	0		2.08	207	7	-2	
23	3.19	277	16	-2		1.99	282	6	0		3.41	223	13	0	
AVER			22.7	1.6	22.8	2.62	287	13	-4	14			9	-4	9

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 8/6

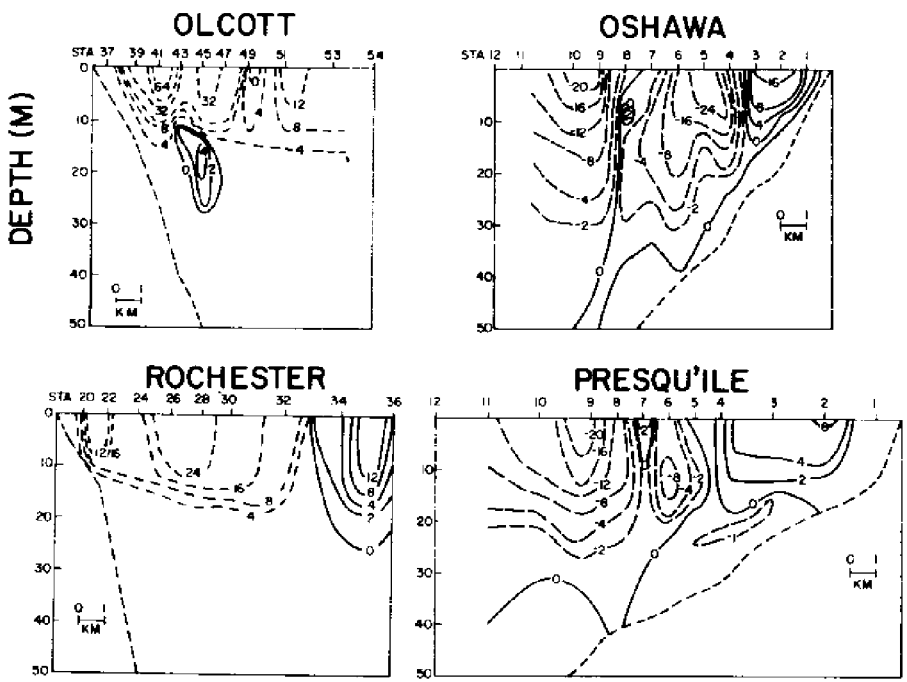


DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	1.44	-0.05	1.39
2	1.79	-0.13	1.66
ROCH. - 1	1.24	-0.74	0.50
2	0.26	-0.20	0.06^3
OLCOTT - 1	1.94	-1.89	0.05
2	2.32	-1.18	1.14
OSHAWA	0.89	-0.74	0.15
PRESQU'ILE	2.43	-1.62	0.81

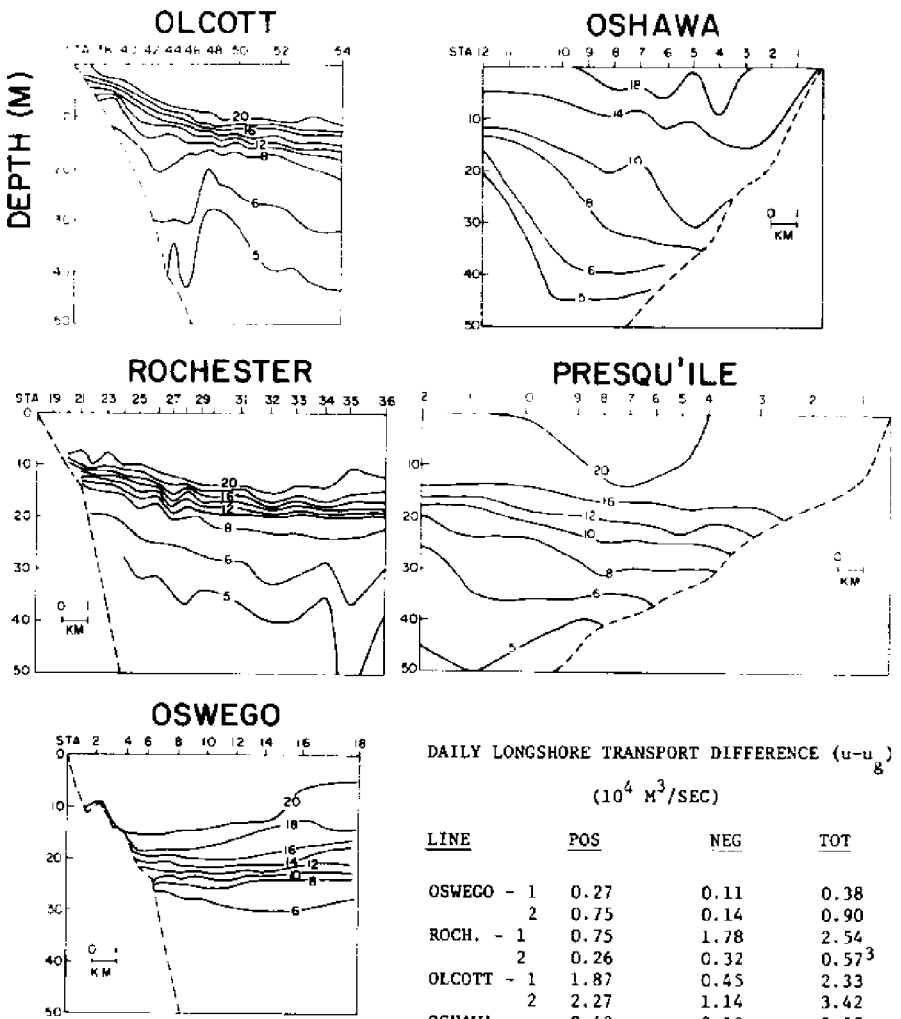
CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 8/6



DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	1.17	-0.16	1.01
2	1.04	-0.27	0.76
ROCH. - 1	0.49	-2.52	-2.04
2	0.0	-0.52	-0.51^3
OLCOTT - 1	0.07	-2.34	-2.28
2	0.05	-2.32	-2.27
OSHAWA	0.46	-2.86	-2.40
PRESQU'ILE	0.40	-2.10	-1.70

CROSS SECTIONS OF TEMPERATURE
DATE: 8/6



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	0.27	0.11	0.38
2	0.75	0.14	0.90
ROCH. - 1	0.75	1.78	2.54
2	0.26	0.32	0.573
OLCOTT - 1	1.87	0.45	2.33
2	2.27	1.14	3.42
OSHAWA	0.43	2.12	2.55
PRESQU'ILE	2.03	0.48	2.51

DATE: 8/6

HOURLY WIND SPEED AND STRESS

BUOY 10 (ROCHESTER & PRESQU'ILE)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0			5	0	
1			8	0	
2			13	- 1	
3			14	6	
4			24	36	
5			26	46	
6			32	60	
7			38	50	
8			38	36	
9			27	24	
10			26	14	
11			22	8	
12			16	6	
13			10	2	
14			3	4	
15			2	1	
16			1	1	
17			0	0	
18			- 2	0	
19			- 1	0	
20			- 3	1	
21			- 3	1	
22			- 7	1	
23			- 9	2	
AVER			11	13	17

BUOY 5 (OLCOTT & OSHAWA)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	3.58	213	20	6	
1	3.94	211	21	21	
2	4.00	207	14	21	
3	4.61	192	4	45	
4	5.22	192	12	33	
5	5.60	207	15	20	
6	4.41	225	18	21	
7	4.51	246	15	13	
8	3.63	255	16	13	
9	3.14	252	22	17	
10	2.47	245	20	15	
11	2.79	230	12	15	
12	1.01	355	9	9	
13	0.13	056	7	4	
14	0.27	171	5	3	
15	1.67	169	2	1	
16	1.34	176	0	1	
17	1.74	178	0	0	
18	2.13	159	- 1	0	
19	1.46	110	- 6	- 3	
20	2.48	081	-12	3	
21	2.9[illegible]	103	-21	7	
22	3.[illegible]	133	-[illegible]	15	
23	3.13	135	-20	27	
AVER			5	13	14

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	3.17	269	15	0	
1	3.21	221	10	12	
2	3.28	214	9	13	
3	3.26	218	11	14	
4	4.36	205	13	28	
5	4.82	204	14	32	
6	6.50	189	11	63	
7	6.41	184	5	62	
8	6.25	199	19	57	
9	6.43	191	12	63	
10	4.94	214	21	32	
11	4.41	243	27	14	
12	3.92	244	21	11	
13	2.91	222	9	10	
14	3.23	201	6	16	
15	3.32	202	6	16	
16	2.99	198	4	13	
17	2.81	186	1	12	
18	1.95	232	5	4	
19	0.57	300	0	0	
20	0.75	006	0	0	
21	2.01	360	0	- 5	
22	1.90	015	0	- 4	
23	1.78	043	- 3	- 3	
AVER			9.0	19.2	21.2

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 8/7

OLCOTT

DEPTH (M)

no data

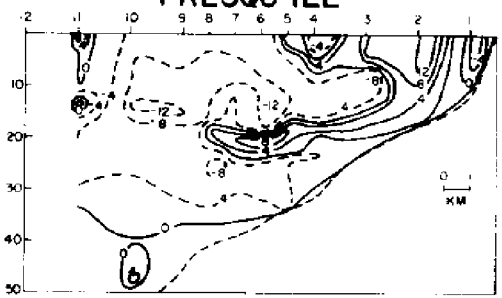
OSHAWA

no data

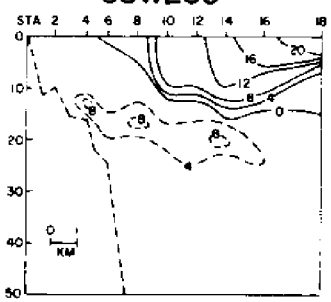
ROCHESTER

no data

PRESQU'ILE



OSWEGO



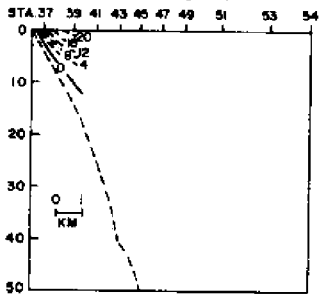
DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.75	-0.44	0.32
ROCHESTER	---	---	---
OLCOTT	0.16	0.0	0.16[2]
OSHAWA	---	---	---
PRESQU'ILE	0.84	-1.93	-1.09[11]

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 8/7

OLCOTT



DEPTH (M)

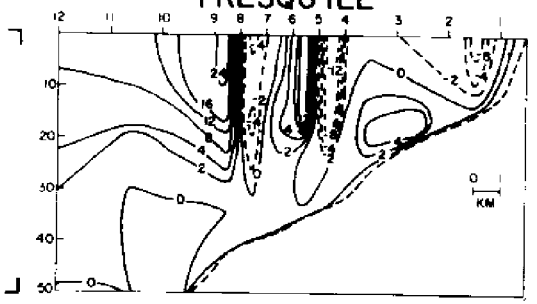
OSHAWA

no data

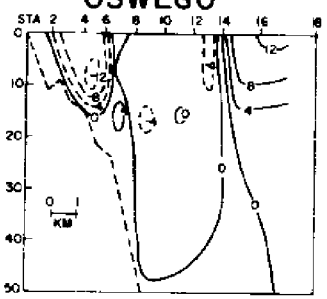
ROCHESTER

no data

PRESQU'ILE



OSWEGO



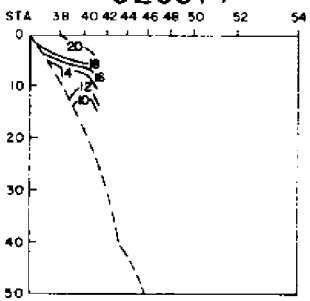
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.48	-0.49	-0.01
ROCHESTER	---	---	---
OLCOTT	0.0	-0.17	-0.17[2]
OSHAWA	---	---	---
PRESQU'ILE	0.39	-1.72	-1.33[11]

CROSS SECTIONS OF TEMPERATURE

DATE: 8/7

OLCOTT



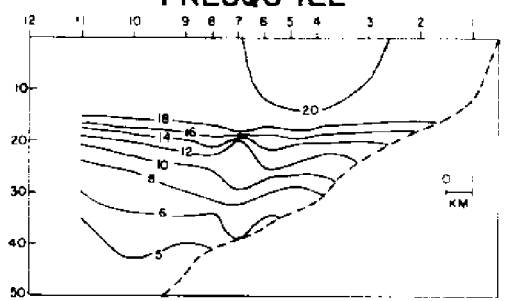
OSHAWA

no data

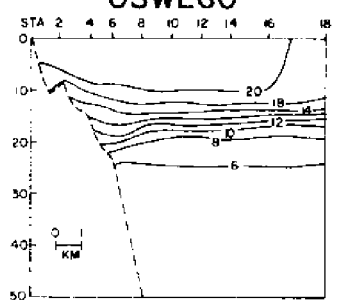
ROCHESTER

no data

PRESQU'ILE



OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_s$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.27	0.05	0.32
ROCHESTER	---	---	---
OLCOTT	0.16	0.17	0.32^2
OSHAWA	---	---	---
PRESQU'ILE	0.45	-0.21	0.24^{11}

HOURLY WIND SPEED AND STRESS

DATE: 8/7

BUOY 12 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	2.25	064	- 6	- 2	
1	1.59	070	- 3	- 1	
2	1.01	096	- 1	0	
3	1.60	126	- 3	4	
4	4.48	125	-24	17	
5	5.39	160	-14	41	
6	6.11	145	-33	53	
7	6.77	174	- 8	71	
8	6.02	185	5	58	
9	6.99	200	26	69	
10	5.87	219	33	42	
11	5.50	214	26	38	
12	5.50	209	22	39	
13	5.74	204	21	45	
14	4.18	201	11	27	
15	5.40	175	0	51	
16	6.03	194	13	57	
17	4.30	199	10	28	
18	5.68	219	33	39	
19	3.70	227	19	18	
20	2.14	255	7	2	
21	3.47	229	14	12	
22	3.16	259	15	3	
23	2.86	224	9	9	
AVER			7.6	30.0	30.9

BUOY 10 (ROCHESTER & PRESQU'ILE)

WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
		-12	2	
		-25	12	
		- 8	32	
		-12	58	
		-22	85	
		-11	78	
		5	81	
		16	69	
		22	55	
		25	28	
		24	22	
		18	23	
		8	22	
		4	20	
		1	21	
		8	47	
		9	- 9	
		-10	-27	
		-14	7	
		- 6	6	
		4	1	
		10	0	
		8	1	
		20	3	
		2	26	27

BUOY 5 (OLCOTT & OSHAWA)

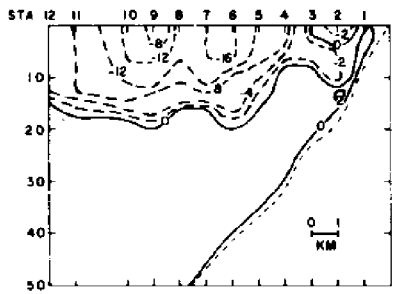
WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
4.15	130	-24	28	
2.98	137	-23	16	
3.93	148	-39	18	
3.38	138	-31	42	
5.10	143	-68	68	
5.63	165	-35	52	
4.19	152	- 9	28	
2.84	178	6	26	
2.47	204	26	22	
1.77	206	39	12	
2.00	219	23	18	
1.57	163	11	19	
1.75	095	2	9	
2.43	095	13	1	
2.45	145	0	1	
3.11	164	- 1	2	
2.84	173	- 6	4	
1.84	219	- 5	6	
1.72	183	- 5	12	
1.54	009	0	1	
2.75	349	- 1	-22	
2.34	017	5	-31	
0.39	141	1	- 1	
2.28	308	4	- 4	
		- 5	14	15

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 8/8

OLCOTT

no data

OSHAWA



DEPTH (M)

ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

DAILY LONGSHORE VELOCITY TRANSPORT (v)

(10^4 M^3/SEC)

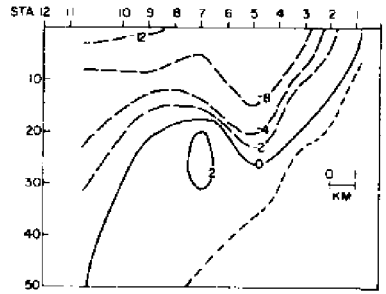
LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.07	-1.50	-1.43
PRESQU'ILE	---	---	---

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 8/8

OLCOTT

no data

OSHAWA

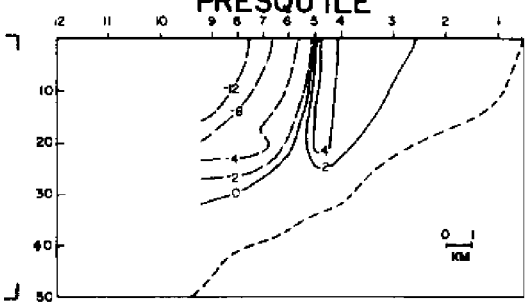


DEPTH (M)

ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.15	-2.12	-1.97
PRESQU'ILE	---	---	---

CROSS SECTIONS OF TEMPERATURE

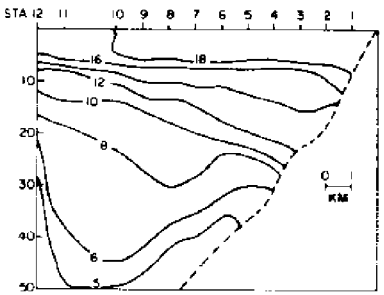
DATE: 8/8

DEPTH (M)

OLCOTT

no data

OSHAWA



ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	-0.08	0.62	0.54
PRESQU'ILE	---	---	---

DATE: 8/8

HOURLY WIND SPEED AND STRESS

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	3.09	229	11	10	
1	3.07	235	12	9	
2	4.36	275	32	- 2	
3	4.60	307	30	-25	
4	4.75	341	10	-35	
5	5.16	312	30	-26	
6	5.27	296	38	-18	
7	6.55	305	53	-36	
8	7.35	313	62	-56	
9	7.60	310	68	-56	
10	7.37	314	62	-57	
11	7.10	303	65	-41	
12	7.52	305	74	-50	
13	7.46	307	68	-50	
14	6.64	305	54	-37	
15	6.97	287	71	-20	
16	6.90	297	66	-33	
17	6.95	276	74	- 6	
18	7.04	268	79	3	
19	6.87	266	74	8	
20	6.35	273	62	- 1	
21	5.93	285	53	-13	
22	5.70	282	48	- 9	
23	5.47	267	21	1	
AVER			50.7	-22.5	55.5

BUOY 10 (ROCHESTER & PRESQU'ILE)

WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
4.54	280	31	- 5	
5.95	289	54	-16	
5.33	298	37	-19	
4.37	290	27	- 9	
5.17	271	40	0	
5.18	270	41	0	
7.05	266	74	5	
8.49	261	106	18	
9.17	257	122	28	
8.47	257	105	24	
8.44	254	103	31	
9.24	253	122	37	
7.91	268	94	2	
7.10	253	72	22	
7.65	274	92	- 4	
7.13	286	83	-21	
6.78	268	81	5	
8.00	258	93	19	
6.63	278	76	- 6	
4.76	275	39	- 5	
5.00	291	35	-13	
4.21	275	29	- 1	
2.57	312	8	- 6	
0.91	297	2	0	
6.00	270	65	3	65

BUOY 5 (OLCOTT & OSHAWA)

WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
3.99	316	33	-58	
4.34	343	2	-68	
3.59	324	47	-39	
4.25	327	60	-53	
3.61	337	52	-51	
4.23	335	76	-84	
5.22	314	56	-80	
5.12	309	75	-53	
6.08	310	68	-73	
5.61	306	48	-55	
5.77	309	97	-20	
5.92	305	64	-37	
4.63	291	52	-24	
4.97	286	57	-26	
4.74	288	51	-10	
3.73	263	36	- 4	
3.45	263	30	-16	
2.79	284	31	-12	
2.57	266	22	7	
1.64	273	24	0	
0.80	309	12	- 3	
0.30	156	6	- 3	
0.57	105	2	- 2	
1.39	197	1	0	
		42	-32	53

DATE: 8/9

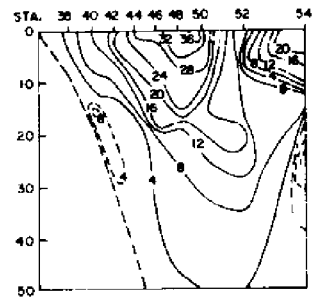
HOURLY WIND SPEED AND STRESS

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	3.11	241	13	7		1.51	227	3	3		2.78	156	40	23	
1	3.19	223	11	12		4.37	203	12	27		4.64	207	51	19	
2	3.35	233	14	11		4.86	212	19	31		4.34	238	- 1	22	
3	4.35	239	25	15		3.62	213	12	17		0.96	183	6	24	
4	3.36	231	16	12		2.77	194	2	13		2.85	160	-15	35	
5	3.62	209	15	25		4.23	139	-18	22		4.18	143	-49	21	
6	6.25	175	- 4	63		4.37	131	-22	21		4.82	153	-27	46	
7	7.05	172	- 9	75		6.26	154	-25	55		5.54	157	9	54	
8	8.34	164	-27	100		6.47	160	-21	60		5.20	179	0	58	
9	7.96	173	-11	100		6.64	176	- 4	67		4.84	189	31	77	
10	8.52	184	6	111		8.35	213	58	88		4.79	196	53	69	
11	8.22	193	23	100		7.62	201	35	84		7.16	224	214	60	
12	7.14	211	42	72		10.19	236	132	86		9.66	246	184	38	
13	7.89	228	80	68		9.78	241	124	69		8.30	264	160	71	
14	9.55	269	143	3		9.31	254	123	35		8.63	226	216	44	
15	9.24	256	137	33		8.66	256	113	30		10.58	246	229	19	
16	8.97	244	112	54		10.18	234	127	90		11.24	244	282	69	
17	8.06	273	105	- 5		13.17	239	223	133		10.97	263	255	-71	
18	9.91	260	154	26		14.73	244	295	148		11.57	285	223	-122	
19	15.34	265	360	28		14.38	252	296	94		9.67	313	116	-132	
20	14.46	302	293	-184		12.82	251	235	85		7.64	320	138	-131	
21	13.39	298	268	-141		11.00	273	198	-10		8.48	308	64	-132	
22	9.06	281	172	-27		10.14	254	151	43		8.63	295	44	-87	
23	10.55	306	143	-100		9.44	266	135	10		8.12	309	46	-47	
AVER			86.7	19.1	88.8	6.72	232	92	54	106			94	1	94

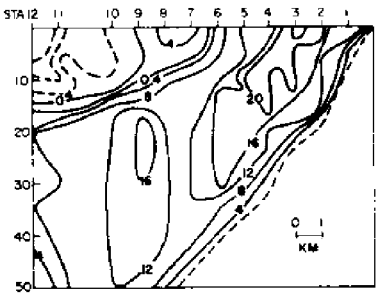
CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY

DATE: 8/10

OLCOTT



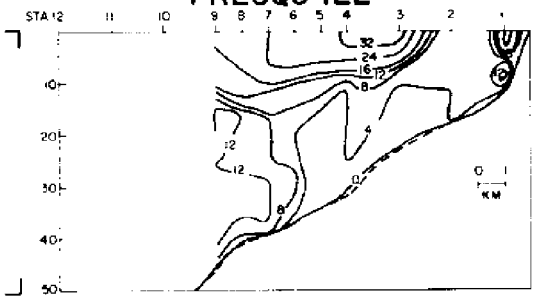
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE VELOCITY TRANSPORT (v)

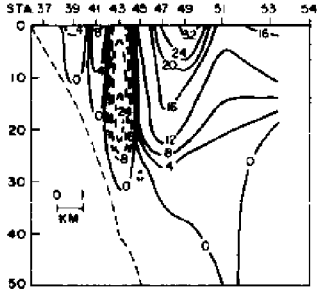
(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	3.77	-0.46	3.31
OSHAWA - 1	5.34	-0.37	4.97
2	1.72	-0.02	1.71^5
PRESQU'ILE	3.99	-0.04	3.95^9

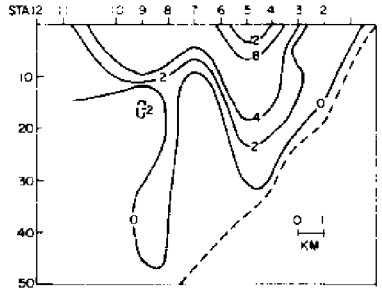
CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY

DATE: 8/10

OLCOTT



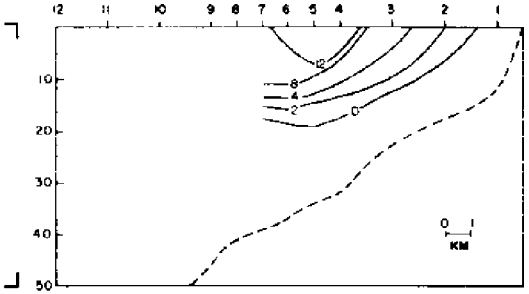
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

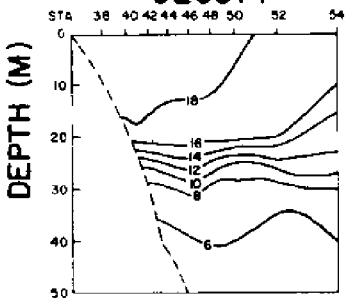
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	1.98	-0.45	1.53
OSHAWA - 1	0.81	-0.13	0.69_5
2	0.28	-0.18	0.10^9
PRESQU'ILE	0.87	-0.14	0.73

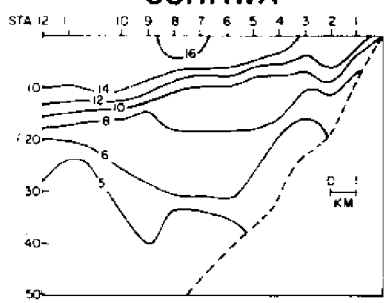
CROSS SECTIONS OF TEMPERATURE

DATE: 8/10

OLCOTT



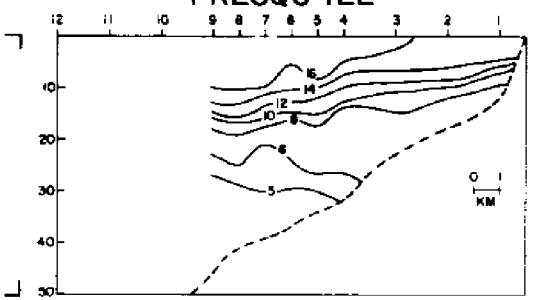
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

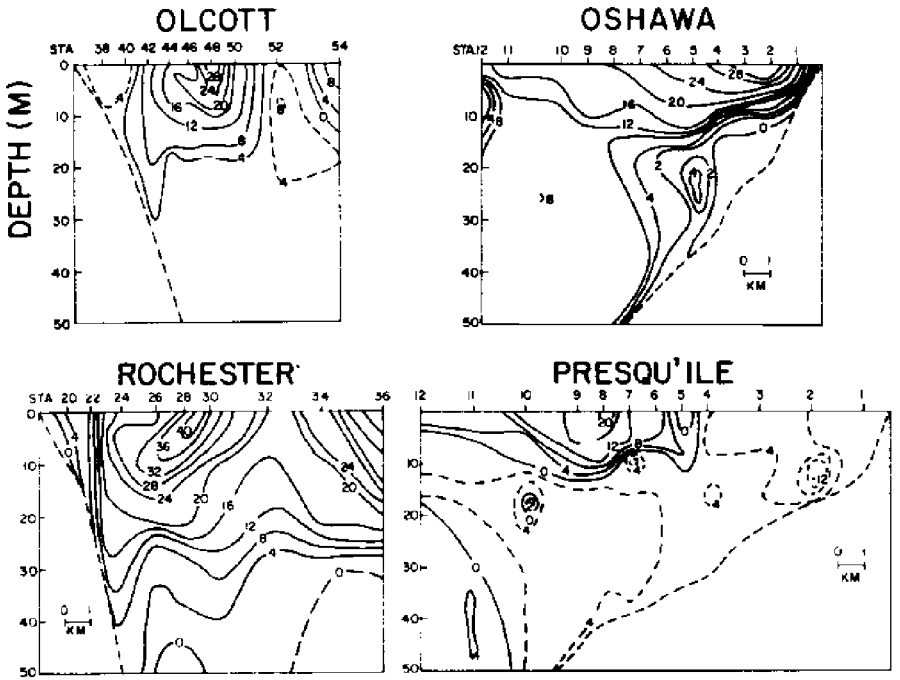
LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	1.79	-0.01	1.78
OSHAWA - 1	4.53	-0.24	4.28
2	1.44	0.16	1.60^5
PRESQU'ILE	3.12	0.10	3.22^9

HOURLY WIND SPEED AND STRESS

DATE: 8/10

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT-& OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	9.17	299	119	-67		8.32	263	103	12		7.08	299	28	-43	
1	9.37	325	80	-113		6.88	263	71	9		7.42	313	24	-22	
2	8.50	305	92	-65		7.46	261	83	14		4.85	311	39	-29	
3	8.69	300	100	-56		8.32	259	103	20		5.47	298	66	-52	
4	8.09	299	88	-47		8.92	260	119	21		6.69	316	37	-73	
5	7.71	303	80	-51		7.66	260	91	15		7.39	307	94	-42	
6	7.23	304	69	-44		8.08	258	95	21		7.30	300	80	-73	
7	7.83	329	51	-84		8.61	264	112	13		7.04	290	75	-72	
8	7.33	323	51	-67		7.57	269	86	2		6.75	319	70	-66	
9	6.72	323	42	-54		8.07	272	99	- 2		6.66	309	65	-58	
10	6.07	306	48	-33		8.34	267	105	5		5.92	306	65	-63	
11	7.32	333	37	-73		8.16	267	100	5		5.47	301	30	-44	
12	7.80	330	47	-81		8.04	264	97	11		5.30	293	39	-27	
13	7.21	324	48	-67		7.16	263	77	9		5.16	299	31	-14	
14	6.39	308	49	-39		7.71	264	90	10		4.07	279	18	-11	
15	7.20	286	78	-21		7.87	256	90	23		4.71	245	31	6	
16	7.15	262	85	10		7.72	249	83	32		5.62	238	34	3	
17	9.13	279	125	-19		8.21	252	96	31		5.92	248	48	14	
18	9.63	281	138	-27		7.52	243	79	40		4.63	265	60	18	
19	9.51	287	130	-40		8.39	251	100	35		4.41	243	72	25	
20	9.01	273	125	- 6		7.83	251	88	30		5.18	245	72	18	
21	8.70	282	118	-24		7.20	251	74	25		5.71	260	61	21	
22	8.29	261	107	13		7.64	251	83	28		4.75	259	33	2	
23	7.80	272	95	- 3		7.09	258	70	29		4.37	270	12	0	
AVER			83.4	-44.1	94.4	7.80	259	91	18	93			49	-25	55

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 8/11

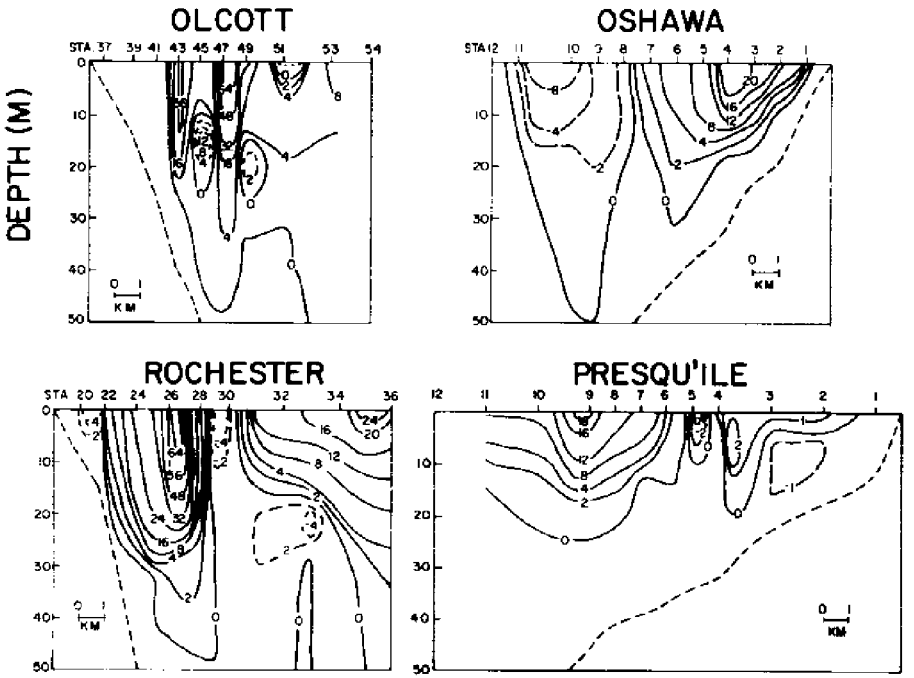


DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	10.74	-0.01	10.73
2	10.19	-0.01	10.18
ROCH. - 1	0.31	-0.01	0.30
2	6.17	-0.04	6.13
OLCOTT - 1	1.43	-0.75	0.68
2	1.93	-0.42	1.51
OSHAWA - 1	5.20	0.0	5.20
2	2.48	0.0	2.48
PRESQU'ILE	0.94	-1.79	-0.85

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 8/11

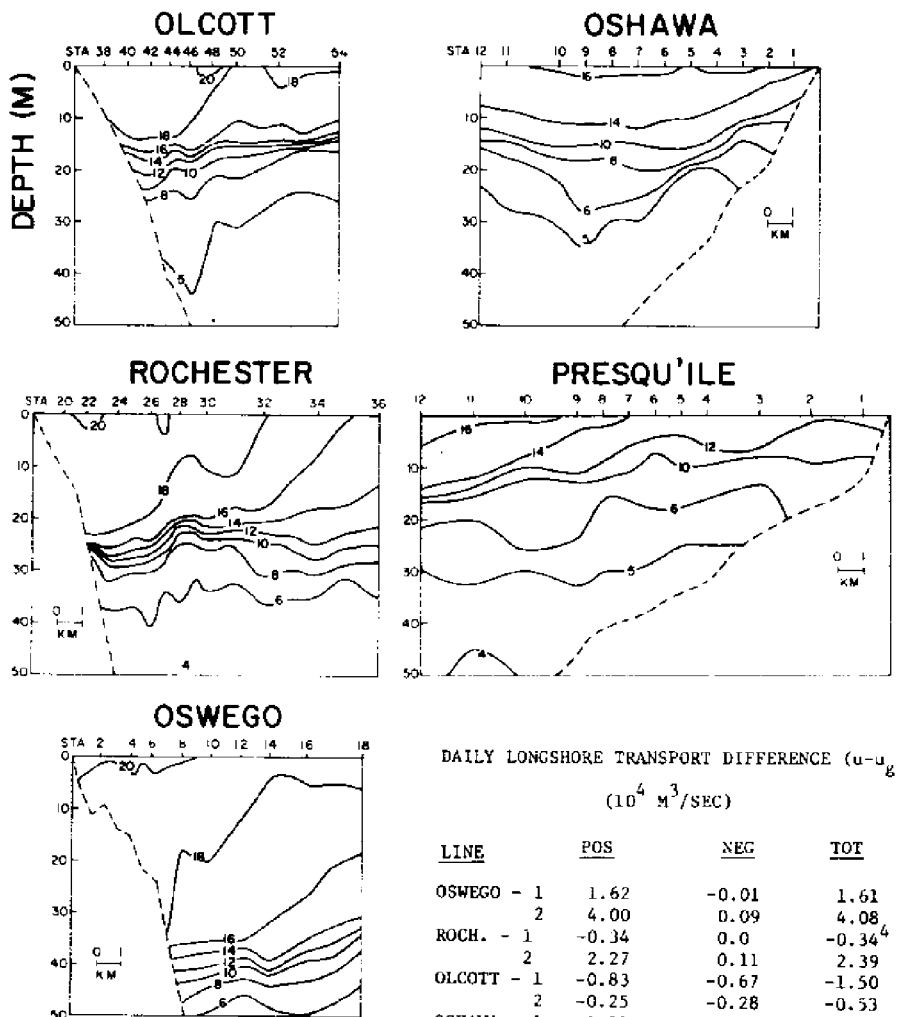


DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	9.12	0.00	9.12
2	6.19	-0.10	6.10
ROCH. - 1	0.65	-0.01	0.64
2	3.90	-0.15	3.75
OLCOTT - 1	2.26	-0.08	2.18
2	2.18	-0.14	2.04
OSHAWA - 1	0.89	-0.56	0.33
2	0.73	-0.03	0.70
PRESQU'ILE	1.06	-0.17	0.88

CROSS SECTIONS OF TEMPERATURE

DATE: 8/11



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	1.62	-0.01	1.61
2	4.00	0.09	4.08
ROCH. - 1	-0.34	0.0	-0.34
2	2.27	0.11	2.39
OLCOTT - 1	-0.83	-0.67	-1.50
2	-0.25	-0.28	-0.53
OSHAWA - 1	4.31	0.56	4.87
2	1.75	0.03	1.78
PRESQU'ILE	-0.12	-1.62	-1.73

DATE: 8/11

HOURLY WIND SPEED AND STRESS

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	6.71	286	70	-20		5.72	250	49	18		2.72	281	1	0	
1	5.72	289	49	-15		5.13	269	41	1		1.25	317	13	1	
2	6.00	305	45	-30		4.51	275	31	-2		1.55	353	11	-4	
3	4.48	287	31	-9		3.78	276	22	-1		3.01	015	-4	-3	
4	3.79	305	19	-12		2.75	295	10	-4		2.66	013	-3	-2	
5	3.70	297	19	-9		2.39	259	9	2		1.61	351	4	-1	
6	4.93	294	34	-14		2.28	271	8	0		1.97	302	5	-5	
7	4.03	293	24	-8		3.52	268	19	1		1.73	249	2	0	
8	4.45	303	25	-16		2.98	270	13	0		2.37	253	11	3	
9	4.25	289	27	-8		2.98	259	13	3		1.89	234	26	-5	
10	3.02	305	11	-7		3.30	266	16	1		2.92	266	18	7	
11	2.06	272	7	0		3.86	262	23	3		2.93	280	14	9	
12	2.54	254	12	3		4.16	267	27	2		2.27	249	18	12	
13	3.37	250	15	5		3.12	262	15	2		2.48	204	12	16	
14	3.62	249	19	7		2.08	252	6	2		3.02	191	4	11	
15	2.88	237	11	7		2.87	225	9	9		3.67	184	3	10	
16	3.15	228	11	10		2.86	224	8	9		2.69	180	0	0	
17	3.57	221	13	14		2.21	218	3	3		1.25	138	0	-1	
18	2.18	243	7	4		0.38	044	0	0		1.57	083	-5	-4	
19	0.73	265	1	0		1.98	065	-4	-2		2.38	119	-13	-2	
20	0.69	355	0	0		2.76	079	-10	-1		3.97	133	-20	0	
21	1.21	029	0	-1		2.70	094	-10	-1		4.10	135	-23	11	
22	1.17	079	-1	0		2.45	124	-7	5		3.46	147	-4	8	
23	2.10	128	-4	4		2.21	143	-4	6		4.34	141	4	12	4
AVER			18.5	-4.0	19.0	1.85	255	12	2	15			3	3	

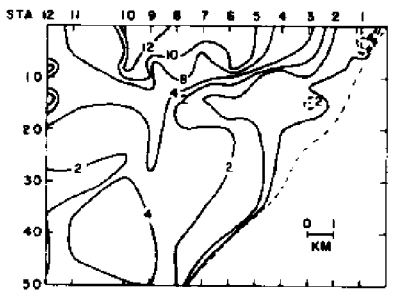
CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 8/12

OLCOTT

DEPTH (M)

no data

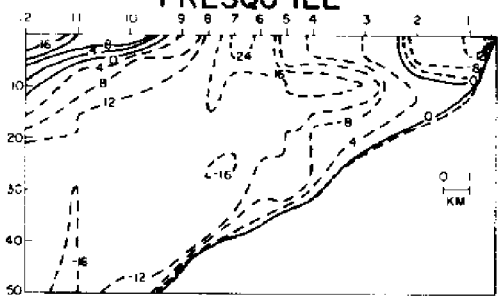
OSHAWA



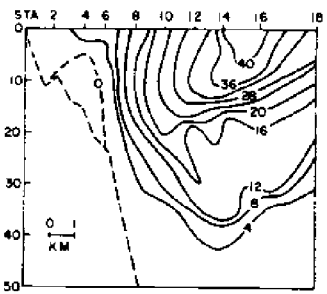
ROCHESTER

no data

PRESQU'ILE



OSWEGO



DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	5.03	-0.06	4.97
2	4.82	-0.02	4.80
ROCHESTER	-0.21	0.0	-0.21[3]
OLCOTT	---	---	---
OSHAWA	1.92	-0.02	1.90
PRESQU'ILE	0.23	-6.78	-6.55

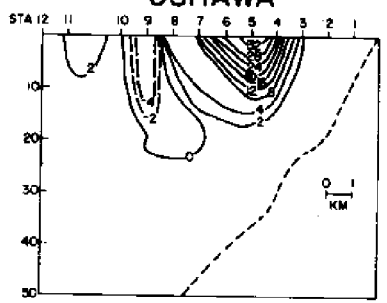
CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 8/12

OLCOTT

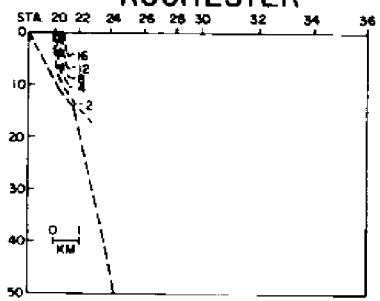
DEPTH (M)

no data

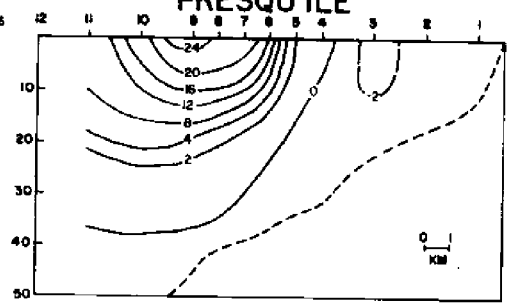
OSHAWA



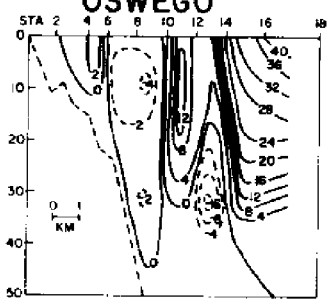
ROCHESTER



PRESQU'ILE



OSWEGO



DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	3.38	-0.19	3.18
2	6.83	-0.11	6.71
ROCHESTER	-0.29	0.0	-0.29[3]
OLCOTT	---	---	---
OSHAWA	1.05	-0.28	0.77
PRESQU'ILE	2.47	-0.49	1.98

CROSS SECTIONS OF TEMPERATURE

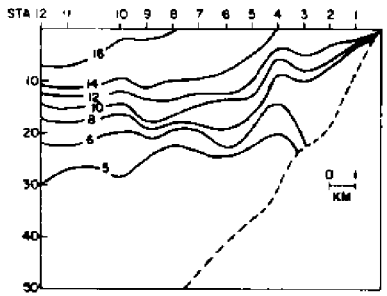
DATE: 8/12

OLCOTT

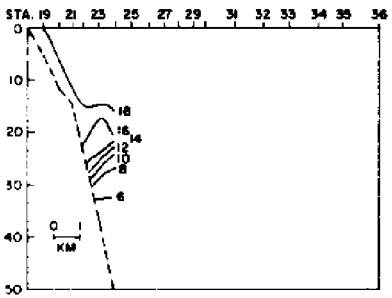
DEPTH (M)

no data

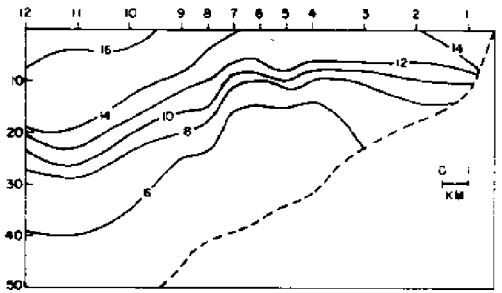
OSHAWA



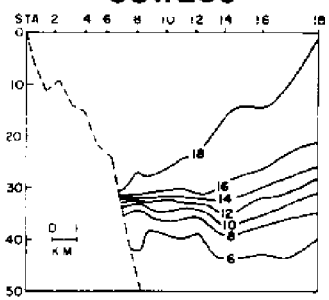
ROCHESTER



PRESQU'ILE



OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	1.65	0.13	1.80
2	-2.01	0.09	-1.91
ROCHESTER	0.08	0.0	0.07[3]
OLCOTT	---	---	---
OSHAWA	0.87	0.26	1.13
PRESQU'ILE	-2.24	-6.29	-8.52

HOURLY WIND SPEED AND STRESS

DATE: 8/12

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	2.44	134	- 5	6		2.53	173	0	10		3.84	153	5	8	
1	2.64	152	- 4	9		3.67	183	1	20		3.47	169	26	- 1	
2	3.33	178	0	17		3.65	237	17	11		2.23	217	16	11	
3	4.37	254	38	6		1.92	260	6	1		2.52	200	14	19	
4	4.80	286	35	-10		3.21	222	11	13		2.06	208	4	27	
5	2.87	222	10	11		2.02	208	3	6		3.34	184	16	23	
6	3.72	205	9	19		2.34	221	6	7		3.82	166	- 3	29	
7	4.00	187	2	27		3.48	164	- 4	19		4.22	159	2	32	
8	4.08	201	9	25		5.90	151	-27	49		5.03	150	4	41	
9	6.47	165	-16	61		6.04	155	-23	51		4.85	163	2	28	
10	6.31	184	4	62		5.75	187	6	49		1.72	178	8	9	
11	7.57	173	-10	84		5.54	181	0	47		0.76	195	3	5	
12	7.20	210	39	68		5.11	207	18	35		1.62	144	3	3	
13	6.51	197	19	64		4.62	211	17	28		1.54	226	6	0	
14	6.17	228	46	43		3.75	230	16	14		2.58	233	11	2	
15	4.81	232	29	23		3.57	253	19	6		3.24	253	11	0	
16	5.19	237	35	23		5.11	279	39	- 5		3.03	285	19	- 1	
17	5.53	251	44	15		4.49	288	31	-10		2.92	266	21	0	
18	5.68	283	50	-10		4.56	272	33	0		3.79	264	22	4	
19	5.78	260	50	8		5.07	272	42	- 1		3.80	259	16	5	
20	5.78	275	54	- 5		5.30	273	47	- 2		3.84	250	16	4	
21	6.22	281	59	-10		5.08	289	38	-13		3.92	241	10	4	
22	4.82	261	39	6		5.03	299	34	-17		3.17	257	7	2	
23	5.51	292	43	-16		4.41	277	31	- 2		2.71	240	16	7	15
AVER			24.1	21.9	32.6	2.86	230	15	13	20			11	11	

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 8/13

OLCOTT

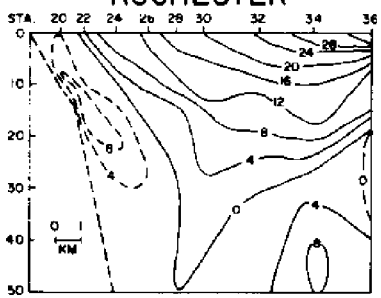
OSHAWA

DEPTH (M)

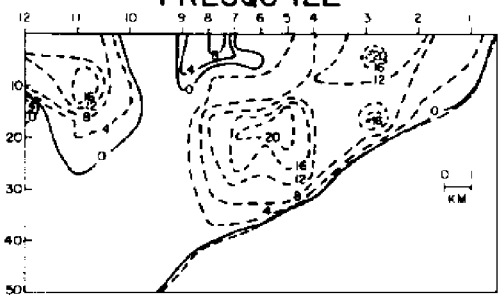
no data

no data

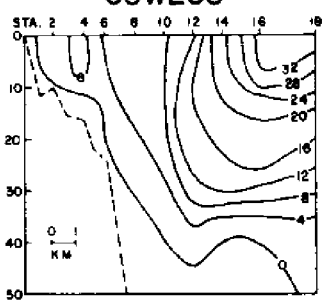
ROCHESTER



PRESQU'ILE



OSWEGO



DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	3.55	0.0	3.55
2	2.92	-0.07	2.85
ROCH. - 1	2.90	-0.39	2.51^8
2	2.83	-0.50	2.33^8
OLCOTT	---	---	---
OSHAWA	---	---	---
PRESQU'ILE	0.38	-3.58	-3.21

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 8/13

OLCOTT

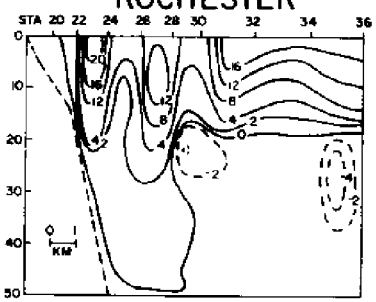
OSHAWA

DEPTH (M)

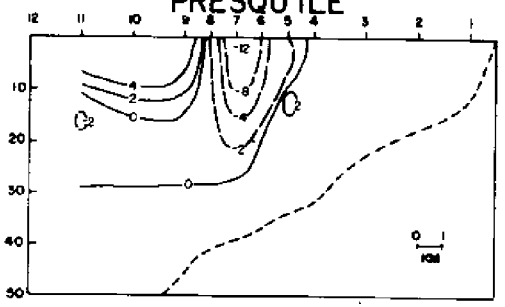
no data

no data

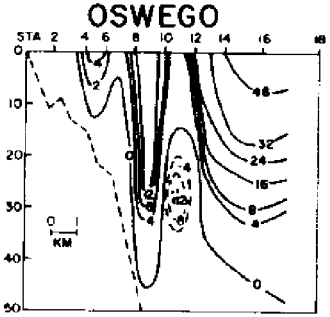
ROCHESTER



PRESQU'ILE



OSWEGO



DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	4.83	-0.09	4.73
2	5.10	-0.04	5.05
ROCH. - 1	2.01	-0.28	1.73^8
2	2.40	-0.37	2.02^8
OLCOTT	---	---	---
OSHAWA	---	---	---
PRESQU'ILE	0.96	-0.79	0.17

CROSS SECTIONS OF TEMPERATURE

DATE: 8/13

OLCOTT

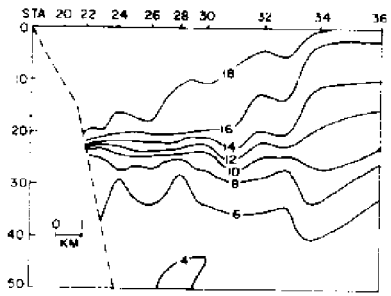
OSHAWA

DEPTH (M)

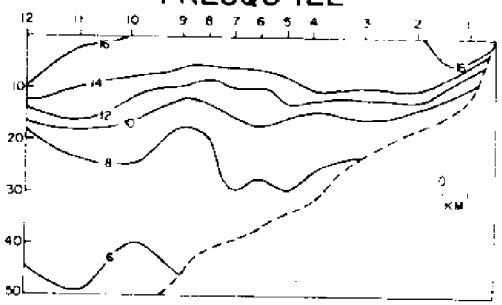
no data

no data

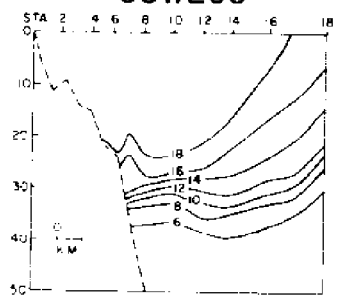
ROCHESTER



PRESQU'ILE



OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($Q-Q_x$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	-1.28	0.09	-1.18
2	-2.18	+0.03	-2.20
ROCH. - 1	0.89	-0.11	0.78^8
2	0.43	-0.13	0.30^8
OLCOTT	---	-	---
OSHAWA	---	---	---
PRESQU'ILE	-0.58	-2.79	-3.38

DATE: 8/13

HOURLY WIND SPEED AND STRESS

BUOY 10 (ROCHESTER & PRESQU'ILE)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	3.39	286	19	- 5	
1	3.26	289	31	-10	
2	3.68	281	33	0	
3	4.49	264	42	- 1	
4	4.24	290	47	- 2	
5	4.17	280	38	-13	
6	3.23	282	34	-17	
7	3.08	299	31	- 2	
8	1.72	291	19	- 5	
9	1.51	288	16	- 4	
10	1.62	230	20	- 3	
11	1.28	262	31	3	
12	0.65	335	29	-10	
13	2.85	054	-27	- 3	
14	4.02	081	-17	- 2	
15	4.66	090	-13	- 6	
16	3.86	070	- 4	- 1	
17	3.69	107	- 4	0	
18	3.23	092	- 3	3	
19	2.89	110	- 3	1	
20	1.97	087	- 1	0	
21	1.29	129	-10	- 7	
22	2.30	195	-27	- 3	
23	2.64	205	-33	0	
AVER	0.39	288	2	- 1	2

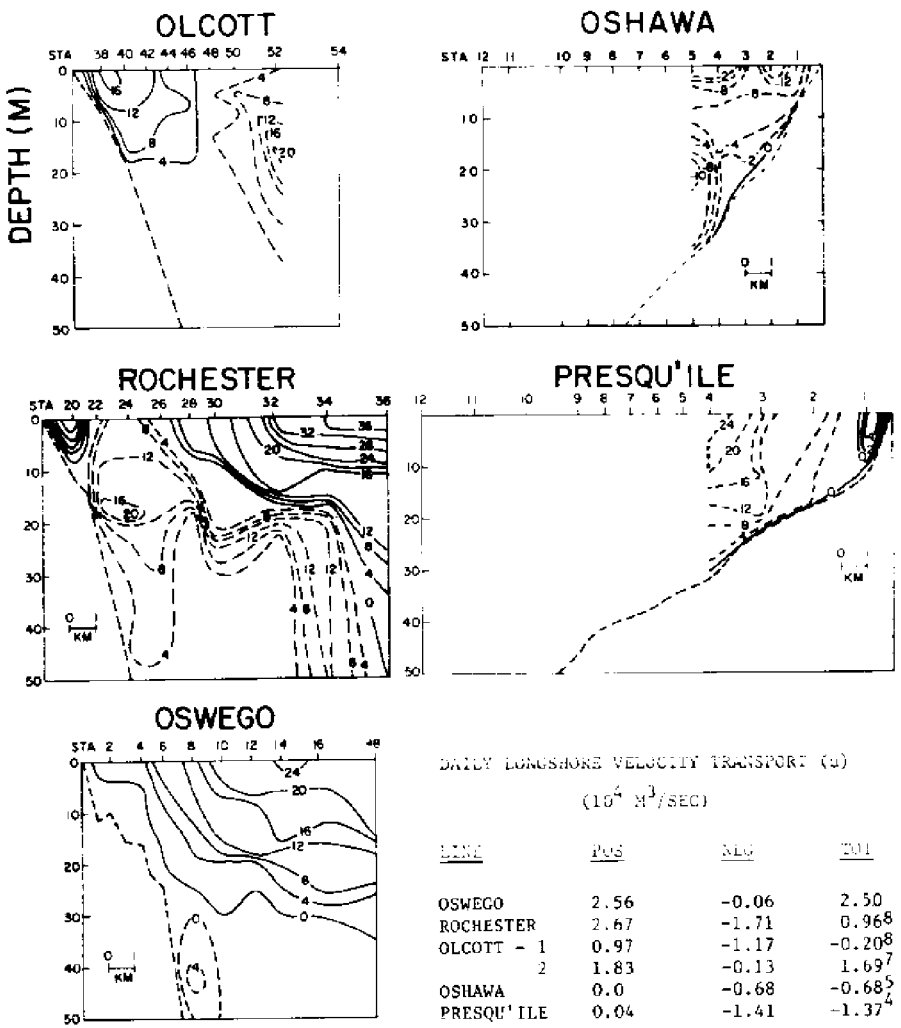
BUOY 5 (OLCOTT & OSHAWA)

WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
3.23	235	23	6	
3.78	259	17	9	
3.49	281	23	6	
3.37	278	21	9	
2.49	258	22	9	
2.39	257	19	5	
2.55	257	23	1	
2.72	284	19	- 4	
2.29	295	13	5	
1.64	292	16	6	
0.12	243	13	3	
0.58	181	9	2	
0.41	200	4	2	
0.44	140	0	- 2	
3.17	085	0	- 7	
5.33	081	0	- 9	
5.23	079	- 5	- 6	
4.94	108	-18	- 7	
3.98	100	-23	0	
3.00	112	- 9	6	
2.57	117	- 5	- 1	
1.60	114	- 8	0	
1.37	176	- 5	4	
2.25	165	- 3	8	6
		6	2	

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	4.93	285	37	- 9	
1	4.38	275	29	- 2	
2	4.38	293	28	-11	
3	4.57	276	34	- 3	
4	5.10	270	41	0	
5	5.59	294	44	-19	
6	4.81	328	18	-31	
7	4.29	356	2	-28	
8	5.07	346	10	-37	
9	5.52	007	- 5	-45	
10	6.00	016	-15	-53	
11	4.64	056	-29	-20	
12	5.46	053	-35	-26	
13	4.46	070	-28	-10	
14	4.74	064	-29	-14	
15	4.24	057	-24	-17	
16	3.77	056	-17	-11	
17	3.04	051	-10	- 8	
18	2.81	042	- 7	- 8	
19	2.22	065	- 7	- 2	
20	2.25	054	- 5	- 4	
21	1.38	070	- 2	0	
22	1.03	166	0	2	
23	1.80	202	3	5	
AVER			1.4	-14.6	14.7

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 8/14

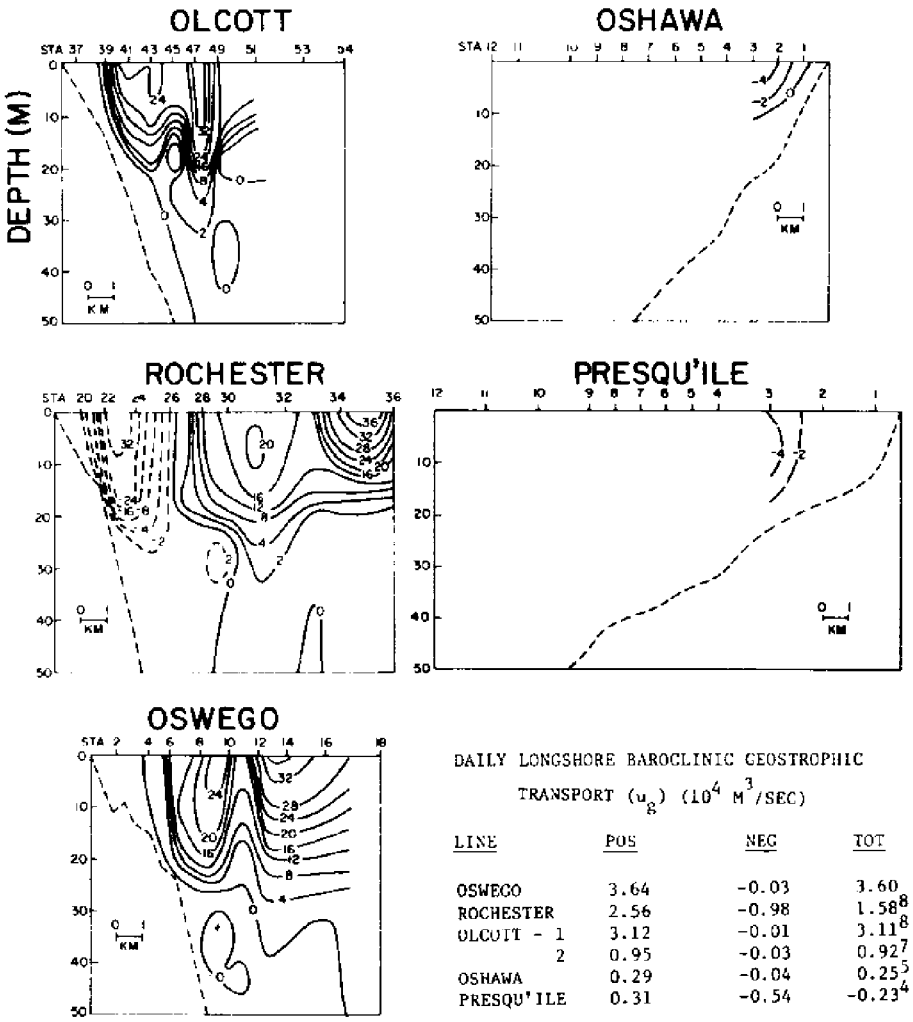


DAILY LONGSHORE VELOCITY TRANSPORT (v)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	2.56	-0.06	2.50
ROCHESTER	2.67	-1.71	0.968
OLCOTT - 1	0.97	-1.17	-0.208
2	1.83	-0.13	1.697
OSHAWA	0.0	-0.68	-0.685
PRESQU'ILE	0.04	-1.41	-1.374

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 8/14

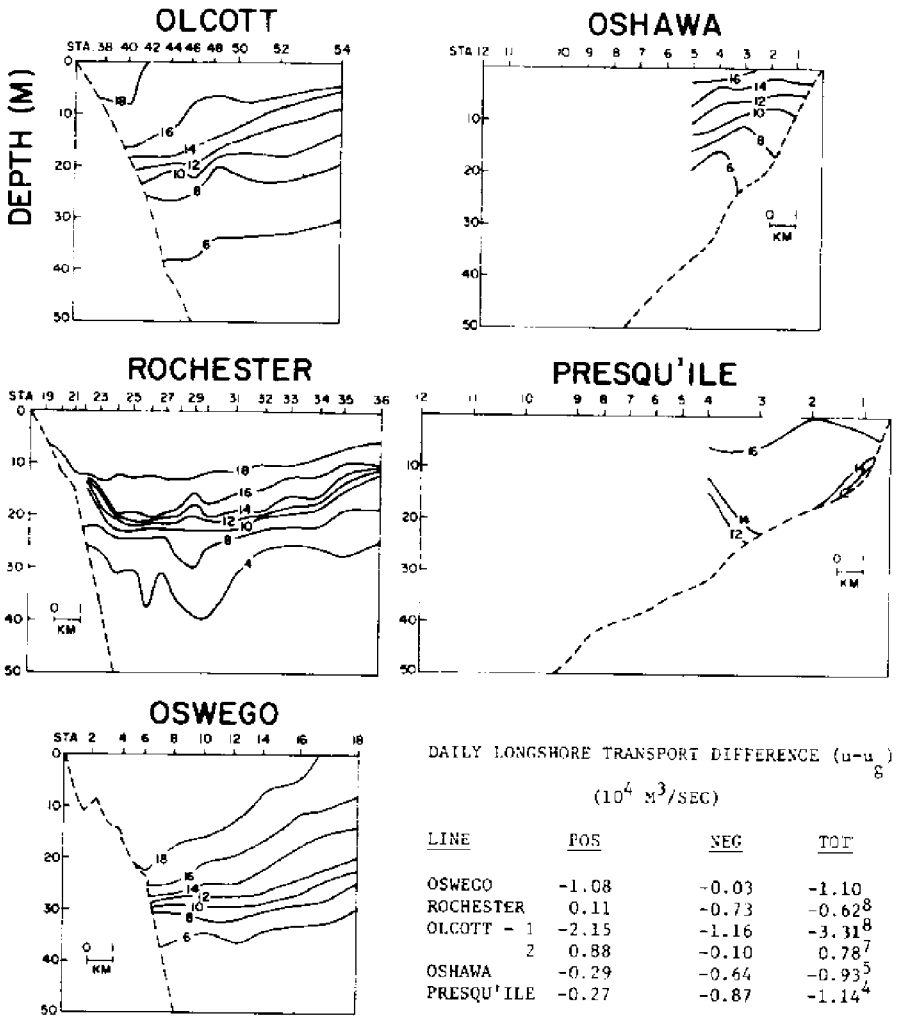


DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	3.64	-0.03	3.60
ROCHESTER	2.56	-0.98	1.588
OLCOIT - 1	3.12	-0.01	3.118
2	0.95	-0.03	0.927
OSHAWA	0.29	-0.04	0.255
PRESQU'ILE	0.31	-0.54	-0.234

CROSS SECTIONS OF TEMPERATURE

DATE: 8/14



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	-1.08	-0.03	-1.10
ROCHESTER	0.11	-0.73	-0.62^8
OLCOTT - 1	-2.15	-1.16	-3.31^8
2	0.88	-0.10	0.78^7
OSHAWA	-0.29	-0.64	-0.93^5
PRESQU'ILE	-0.27	-0.87	-1.14^4

HOURLY WIND SPEED AND STRESS

DATE: 8/14

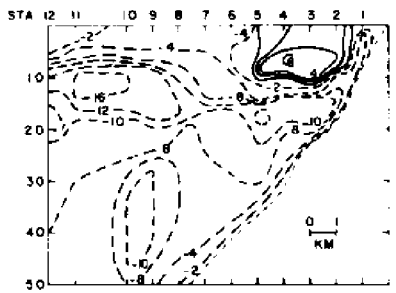
TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	2.62	218	6	8		2.47	210	5	8		1.68	159	- 6	0	
1	2.64	230	8	7		2.50	197	3	9		1.35	149	- 3	2	
2	3.21	222	11	12		2.79	196	3	11		1.68	156	- 5	3	
3	3.43	228	13	12		3.42	205	7	16		2.37	182	- 3	6	
4	3.74	200	7	20		3.35	191	3	17		1.67	181	1	11	
5	4.43	203	11	27		3.25	190	3	15		1.07	165	18	19	
6	4.12	200	9	24		4.02	189	4	24		2.25	255	48	13	
7	3.44	163	- 4	18		3.68	210	10	17		4.85	276	43	22	
8	3.96	179	0	25		4.16	256	26	6		5.47	276	41	19	
9	5.07	187	5	39		4.57	308	27	-22		6.09	239	42	17	
10	5.35	217	27	40		4.37	324	19	-24		6.56	256	56	5	
11	5.35	263	44	6		4.64	275	35	- 2		5.39	265	53	19	
12	5.61	280	46	- 6		4.40	309	24	-18		5.50	277	40	26	
13	2.63	359	1	-16		5.80	276	53	- 4		5.64	253	46	5	
14	4.96	032	-21	-32		4.84	320	31	-31		5.47	270	32	5	
15	5.74	054	-41	-30		3.24	002	0	-17		5.19	265	23	- 2	
16	6.84	054	-57	-42		5.05	037	-22	-31		5.31	291	21	- 4	
17	7.36	042	-57	-64		5.73	054	-41	-30		2.64	293	23	- 8	
18	7.80	046	-66	-64		7.36	075	-65	-24		7.67	089	0	-14	
19	8.45	073	-106	-31		7.67	053	-78	-58		8.39	075	-85	7	
20	8.44	049	-80	-70		6.15	070	-62	-33		7.38	075	-89	-38	
21	6.95	054	-64	-45		5.62	086	-48	- 3		5.42	100	-76	8	
22	8.21	058	-87	-53		2.93	096	-12	2		4.78	111	-47	- 1	
23	8.24	067	-100	-40		2.00	075	- 5	0		2.85	100	-31	-13	
AVER			-21.0	-10.6	23.6			- 5	- 7	9			6	4	7

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 8/15

OLCOTT

no data

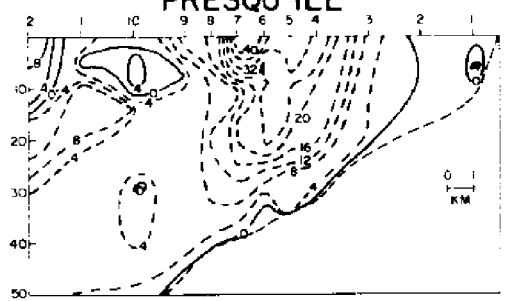
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

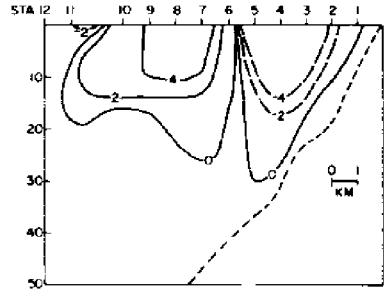
LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.16	-4.09	-3.93
PRESQU'ILE	0.23	-4.88	-4.65

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 8/15

OLCOTT

no data

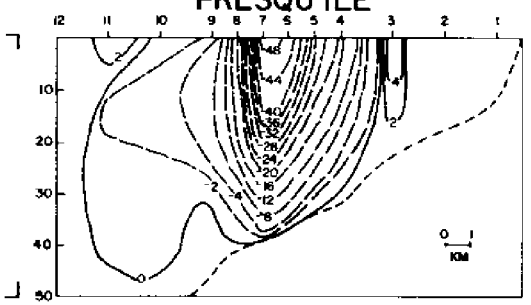
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.59	-0.39	0.19
PRESQU'ILE	0.58	-4.15	-3.57

CROSS SECTIONS OF TEMPERATURE

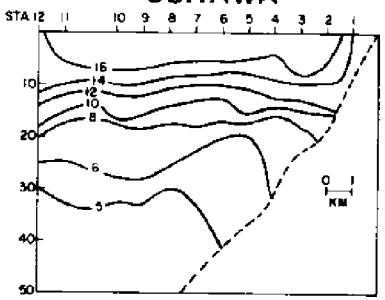
DATE: 8/15

DEPTH (M)

OLCOTT

no data

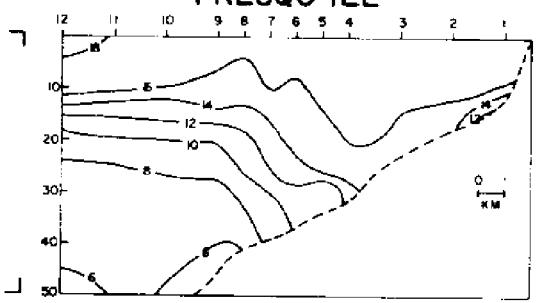
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	-0.43	-3.70	-4.12
PRESQU'ILE	-0.35	-0.73	-1.08

HOURLY WIND SPEED AND STRESS

DATE: 8/15

BUOY 10 (ROCHESTER & PRESQU'ILE)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	5.24	064	-42	-21	
1	4.14	075	-26	- 6	
2	4.29	032	-14	-24	
3	5.49	037	-28	-37	
4	6.46	047	-46	-43	
5	6.48	054	-49	-36	
6	5.55	057	-41	-26	
7	6.07	073	-55	-17	
8	5.80	049	-38	-33	
9	6.32	042	-43	-47	
10	6.09	055	-51	-36	
11	5.71	045	-37	-38	
12	5.76	054	-42	-30	
13	4.31	086	-37	0	
14	6.51	063	-56	-29	
15	6.15	070	-54	-20	
16	4.27	078	-29	- 7	
17	3.78	079	-21	- 3	
18	3.44	117	-16	9	
19	4.79	119	-29	17	
20	4.30	119	-24	14	
21	4.09	125	-21	15	
22	2.89	146	- 7	11	
23	2.99	119	-11	7	
AVER			-35	-16	39

BUOY 5 (OLCOTT & OSHAWA)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	1.13	053	- 7	3	
1	2.00	014	- 6	- 9	
2	3.16	017	- 4	-10	
3	4.85	035	- 5	-11	
4	4.97	043	-19	-16	
5	5.09	037	-26	-26	
6	4.90	047	-34	-18	
7	4.82	077	-29	-28	
8	5.29	063	-34	-21	
9	5.32	057	-29	-31	
10	5.75	041	-44	-27	
11	5.79	045	-43	-42	
12	5.80	062	-51	-23	
13	5.91	062	-44	-35	
14	4.83	074	-29	-32	
15	4.32	080	-40	3	
16	3.95	084	-44	6	
17	3.07	094	-38	- 8	
18	3.16	132	-31	7	
19	2.62	155	-28	11	
20	1.91	165	-19	8	
21	0.96	193	-18	4	
22	0.23	217	-19	7	
23	0.49	306	-16	5	
AVER			-28	-12	31

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	8.30	063	-101	-52	
1	8.12	064	- 99	-49	
2	7.48	061	- 78	-43	
3	7.69	047	- 70	-65	
4	7.81	073	- 94	-27	
5	7.97	090	- 95	0	
6	7.87	077	- 93	-21	
7	6.42	064	- 64	-30	
8	6.83	053	- 58	-43	
9	4.96	043	- 31	-33	
10	7.11	047	- 56	-52	
11	7.97	063	- 88	-45	
12	8.14	065	- 93	-42	
13	7.63	069	- 80	-31	
14	7.61	055	- 74	-50	
15	7.24	063	- 72	-36	
16	6.72	054	- 58	-43	
17	6.45	074	- 60	-17	
18	6.47	055	- 50	-35	
19	5.43	047	- 32	-31	
20	4.11	063	- 22	-11	
21	3.84	029	- 10	-18	
22	4.64	072	- 30	- 9	
23	4.70	058	- 28	-18	
AVER			-64.0	-33.4	72.2

SECTION III

PLOTS: CROSS-SECTIONS OF DAILY MEASURED CURRENT VELOCITY, DAILY BAROCLINIC GEOSTROPHIC VELOCITY AND TEMPERATURE

TABLES: DAILY TRANSPORT

HOURLY WIND VELOCITY AND STRESS

ALERT 3

SEPTEMBER 15 - OCTOBER 15, 1972

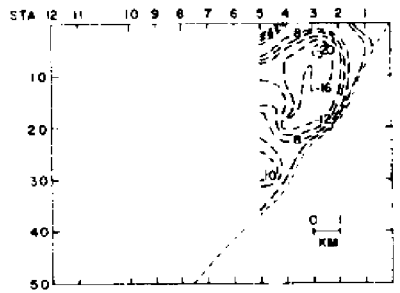
CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 9/15

OLCOTT

DEPTH (M)

no data

OSHAWA



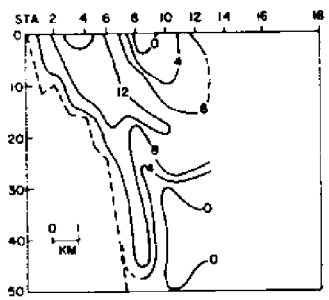
ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO



DAILY LONGSHORE VELOCITY TRANSPORT (v)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	1.52	-0.01	1.51^6
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.02	-1.18	-1.16^5
PRESQU'ILE	---	---	---

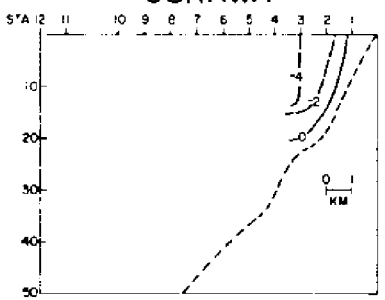
CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 9/15

OLCOTT

DEPTH (M)

no data

OSHAWA



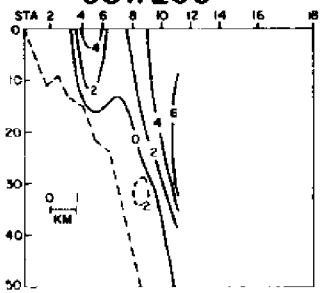
ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO



DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (v_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.40	-0.02	0.37^6
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.25	-0.36	-0.11^5
PRESQU'ILE	---	---	---

CROSS SECTIONS OF TEMPERATURE

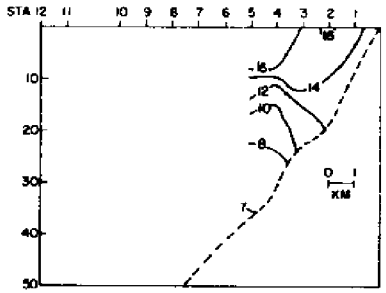
DATE: 9/15

OLCOTT

DEPTH (M)

no data

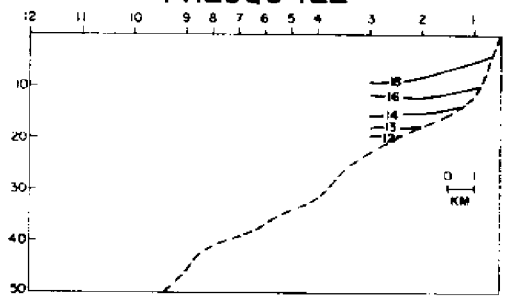
OSHAWA



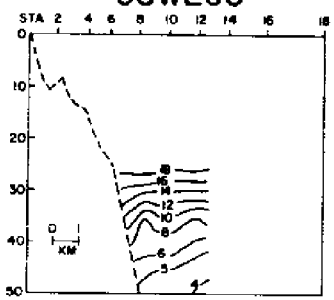
ROCHESTER

no data

PRESQU'ILE



OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	1.12	0.01	1.14^6
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	-0.23	-0.82	-1.05^5
PRESQU'ILE	---	---	---

HOURLY WIND SPEED AND STRESS

DATE: 9/15

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	2.12	046	-11	- 9	
1	4.67	036	-19	-27	
2	3.04	086	-14	- 1	
3	3.32	099	-16	2	
4	2.61	115	- 9	5	
5	2.77	135	- 8	9	
6	4.18	174	- 2	27	
7	4.85	193	9	37	
8	6.26	210	30	55	
9	6.04	203	24	54	
10	4.14	261	37	1	
11	5.47	300	51	-25	
12	4.91	327	20	-30	
13	3.73	325	13	-17	
14	4.56	278	36	- 4	
15	7.76	273	91	- 4	
16	7.87	272	94	- 2	
17	7.40	267	82	4	
18	6.83	245	64	30	
19	6.61	233	53	40	
20	6.04	229	44	39	
21	5.49	222	31	34	
22	5.20	204	19	36	
23	5.24	225	28	29	
AVER			27.0	11.8	29.4

BUOY 10 (ROCHESTER & PRESQU'ILE)

WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
3.09	276	19	- 1	
2.80	285	13	- 2	
3.00	340	5	-13	
4.01	330	7	-25	
6.32	342	19	-60	
6.39	006	- 5	-60	
4.45	001	1	-33	
3.22	003	0	-16	
1.54	343	1	- 4	
3.07	287	18	- 6	
5.98	309	47	-37	
6.51	292	61	-24	
5.24	294	42	-19	
6.02	267	60	3	
6.67	269	72	0	
5.49	286	51	-15	
5.51	231	39	31	
5.11	243	37	17	
5.41	233	36	27	
5.32	262	46	6	
6.17	247	53	22	
6.87	262	71	11	
6.38	248	63	25	
8.37	268	106	4	
		36	- 8	37

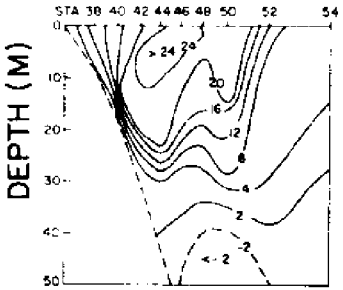
BUOY 5 (OLCOTT & OSHAWA)

WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
6.04	332	-34	-68	
7.45	336	-19	-62	
7.23	349	8	-35	
7.21	352	-19	-49	
5.71	354	-11	-44	
4.15	349	2	-22	
3.33	332	10	-19	
3.42	297	17	- 2	
5.55	284	28	0	
5.90	302	37	- 6	
5.09	299	50	6	
5.02	284	45	6	
5.20	287	39	7	
5.63	271	35	13	
5.32	274	34	15	
5.52	246	43	19	
6.42	260	72	34	
7.13	248	79	42	
7.51	255	87	38	
6.73	230	95	55	
7.46	254	99	52	
7.79	252	127	81	
8.58	241	139	74	
8.60	250	125	86	
		45	9	46

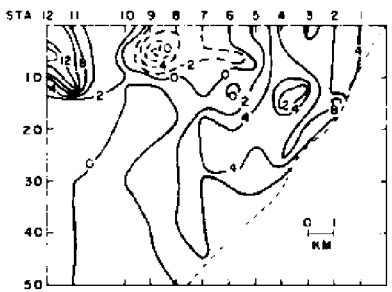
CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY

DATE: 9/16

OLCOTT



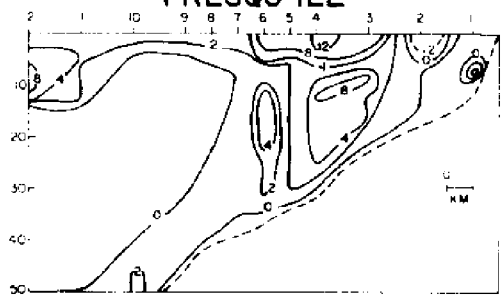
OSHAWA



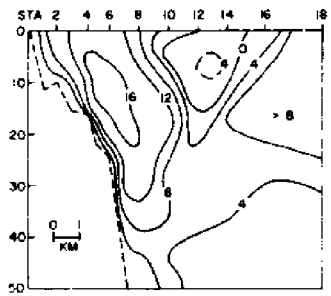
ROCHESTER

no data

PRESQU'ILE



OSWEGO



DAILY LONGSHORE VELOCITY TRANSPORT (u)

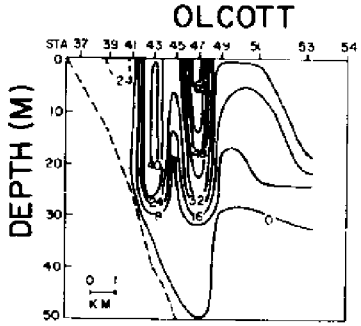
(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	2.52	-0.03	2.49
ROCHESTER	---	---	---
OLCOTT - 1	3.49	-0.19	3.30
2	3.26	-1.87	1.39
OSHAWA	1.40	-0.13	1.27
PRESQU'ILE	1.04	-0.02	1.02

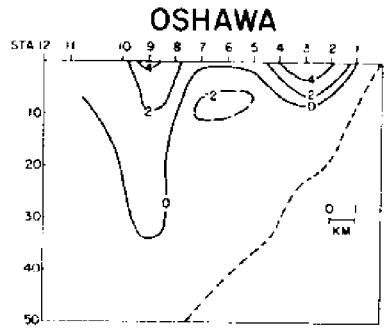
CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY

DATE: 9/16

OLCOTT



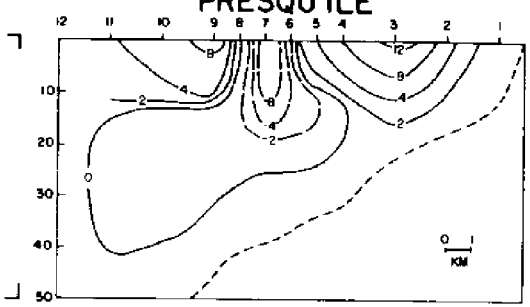
OSHAWA



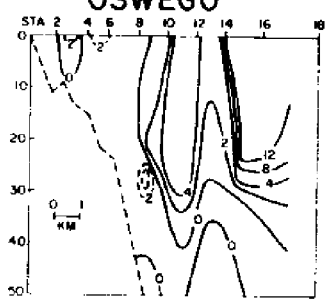
ROCHESTER

no data

PRESQU'ILE



OSWEGO



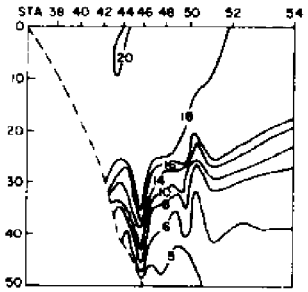
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	1.55	-0.05	1.50
ROCHESTER	---	---	---
OLCOTT - 1	5.35	-0.06	5.29
2	4.28	-0.09	4.18
OSHAWA	0.36	-0.43	-0.07
PRESQU'ILE	0.99	-0.48	0.51

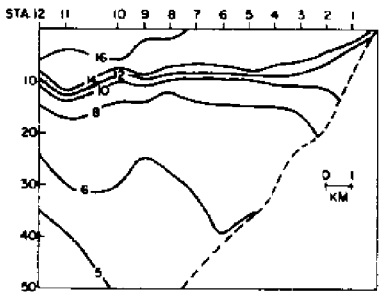
CROSS SECTIONS OF TEMPERATURE

DATE: 9/16

OLCOTT



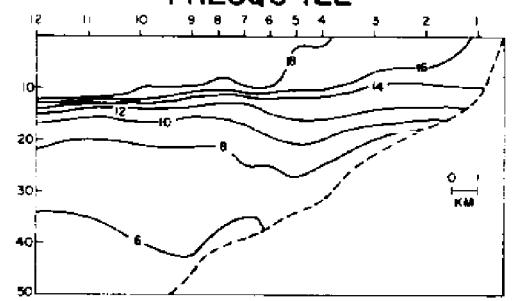
OSHAWA



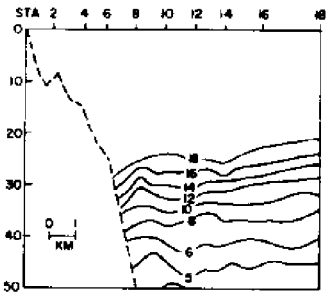
ROCHESTER

no data

PRESQU'ILE



OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.97	0.02	0.99
ROCHESTER	---	---	---
OLCOTT - 1	-1.86	-0.13	-1.99
2	-1.02	-1.78	-2.79
OSHAWA	1.04	-0.30	1.34
PRESQU'ILE	0.05	-0.46	0.51

HOURLY WIND SPEED AND STRESS

DATE: 9/16

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	6.63	256	66	15		8.14	258	96	19		8.13	263	100	34	
1	7.65	265	86	8		7.74	255	87	24		8.60	243	113	41	
2	7.61	252	83	27		8.62	244	107	52		9.93	266	98	78	
3	9.85	251	136	48		8.42	274	119	- 8		8.30	290	102	40	
4	10.07	260	151	27		7.77	247	93	38		8.89	259	91	27	
5	8.65	268	121	4		7.87	244	87	43		8.86	259	102	60	
6	8.18	251	95	33		8.40	251	102	38		9.34	271	131	19	
7	9.24	251	122	42		8.75	269	123	2		9.33	255	134	60	
8	9.07	271	125	- 1		8.17	274	108	- 9		8.08	271	106	17	
9	8.86	288	112	-35		7.57	282	98	-22		8.27	288	83	44	
10	7.95	282	94	-19		7.79	305	83	-56		6.42	277	61	8	
11	7.54	287	85	-24		6.89	305	64	-46		5.09	267	47	8	
12	6.58	296	61	-28		6.25	279	62	- 9		4.99	267	38	9	
13	5.55	291	46	-17		6.22	265	60	5		4.60	278	31	9	
14	5.46	280	47	- 8		5.33	264	46	5		3.79	261	25	8	
15	6.28	271	59	0		5.00	287	38	-10		3.65	264	23	1	
16	6.31	279	59	- 8		4.80	289	34	-10		3.50	285	13	- 2	
17	5.79	248	49	19		3.37	246	20	8		2.25	281	3	0	
18	5.04	266	38	3		3.46	285	18	- 4		1.75	291	2	- 1	
19	3.87	257	22	6		2.64	317	8	- 7		0.69	330	0	0	
20	2.35	264	9	1		0.74	023	0	- 1		1.30	154	5	3	
21	2.25	211	4	7		2.37	165	- 1	9		3.16	173	65	21	
22	3.43	188	2	16		2.70	184	2	12		4.17	208	81	54	
23	3.81	183	1	21		4.20	242	24	13		6.59	244	72	14	
AVER			69.7	5.8	70.0			62	3	62			64	23	68

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 9/17

OLCOTT

OSHAWA

DEPTH (M)

no data

no data

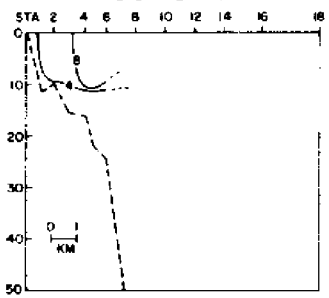
ROCHESTER

PRESQU'ILE

no data

no data

OSWEGO



DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.16	0.0	0.16^2
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 9/17

OLCOTT

OSHAWA

DEPTH (M)

no data

no data

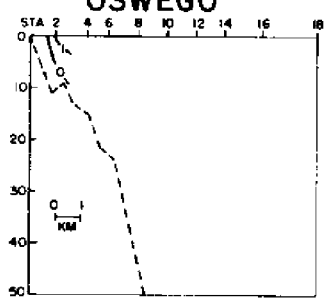
ROCHESTER

PRESQU'ILE

no data

no data

OSWEGO



DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.01	0.0	0.01^2
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

CROSS SECTIONS OF TEMPERATURE

DATE: 9/17

DEPTH (M)

OLCOTT

no data

OSHAWA

no data

ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.15	0.0	0.14^2
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

DATE: 9/17

HOURLY WIND SPEED AND STRESS

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	4.90	194	9	36	
1	5.60	204	19	43	
2	5.76	216	30	41	
3	6.69	203	25	62	
4	8.74	212	62	97	
5	8.84	201	45	117	
6	10.39	189	27	161	
7	10.40	198	49	153	
8	11.02	215	103	148	
9	9.96	220	95	115	
10	8.41	213	73	106	
11	9.91	221	104	124	
12	9.96	253	147	45	
13	9.13	244	115	57	
14	7.88	252	94	34	
15	8.68	258	110	23	
16	8.10	260	101	18	
17	7.56	268	91	3	
18	6.46	279	64	- 9	
19	5.93	274	58	- 2	
20	4.42	293	27	-11	
21	4.11	289	24	- 7	
22	3.34	291	17	- 6	
23	3.20	251	15	5	
AVER			62.7	56.4	84.3

BUOY 10 (ROCHESTER & PRESQU'ILE)

	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
	5.24	234	35	27	
	5.76	214	31	44	
	5.87	211	30	49	
	5.88	205	24	51	
	7.34	216	50	68	
	9.12	202	46	118	
	8.90	222	85	92	
	9.17	242	126	62	
	12.10	245	204	93	
	11.39	257	204	48	
	12.63	249	224	86	
	10.43	239	152	89	
	9.10	257	151	35	
	10.79	245	156	76	
	9.53	230	106	90	
	6.87	252	80	27	
	6.54	231	53	44	
	5.61	315	37	-35	
	5.46	314	35	-33	
	4.19	282	30	- 4	
	3.49	314	13	-12	
	4.65	314	24	-22	
	5.11	335	17	-36	
	2.71	317	8	- 9	
			80	39	89

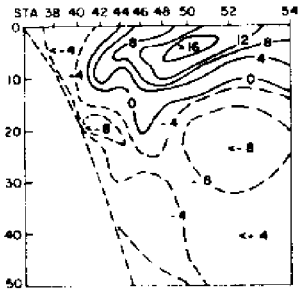
BUOY 5 (OLCOTT & OSHAWA)

	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
	6.20	224	59	26	
	6.27	200	55	32	
	5.86	200	60	38	
	5.70	198	63	48	
	6.58	217	109	61	
	8.57	219	129	134	
	11.41	237	160	179	
	11.13	241	195	173	
	11.58	232	201	153	
	13.33	246	178	119	
	12.02	243	177	146	
	11.36	243	200	143	
	9.74	256	162	81	
	9.56	239	127	80	
	8.08	252	97	78	
	8.97	244	81	49	
	6.60	250	69	26	
	5.15	292	59	21	
	4.66	287	55	28	
	2.82	297	42	15	
	3.39	274	37	0	
	3.70	295	31	- 8	
	3.25	329	20	-21	
	1.65	304	6	- 3	
			99	66	119

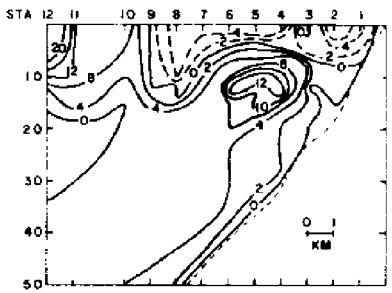
CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY

DATE: 9/18

OLCOTT



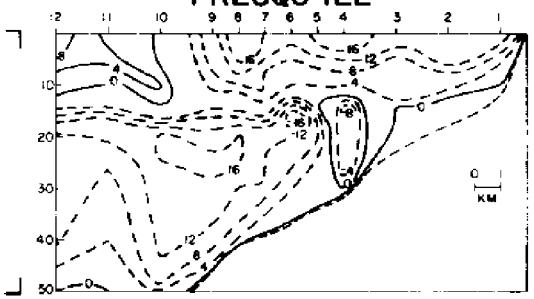
OSHAWA



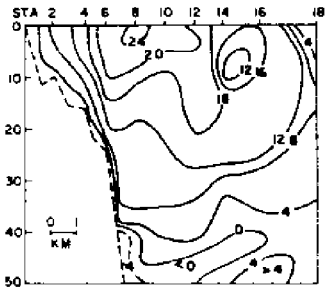
ROCHESTER

no data

PRESQU'ILE



OSWEGO



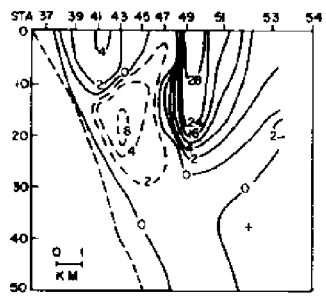
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	1.86	0.0	1.86^5
2	4.24	-0.27	3.96^8
ROCHESTER	---	---	---
OLCOTT - 1	1.23	-0.26	0.98
2	0.70	-0.39	0.31
OSHAWA	0.52	-0.35	0.17
PRESQU'ILE	1.38	-1.10	0.28

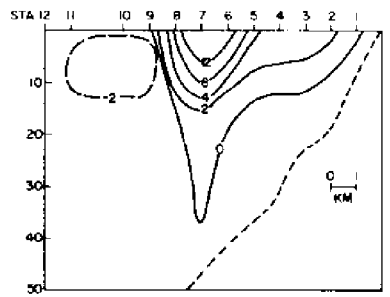
CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY

DATE: 9/18

OLCOTT



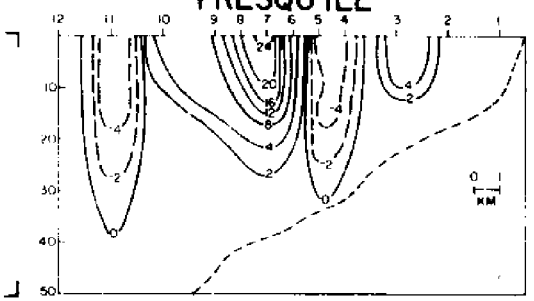
OSHAWA



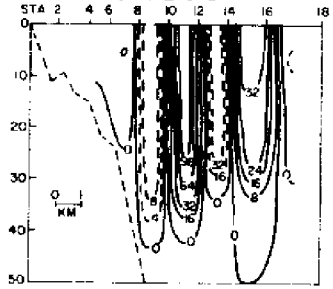
ROCHESTER

no data

PRESQU'ILE



OSWEGO



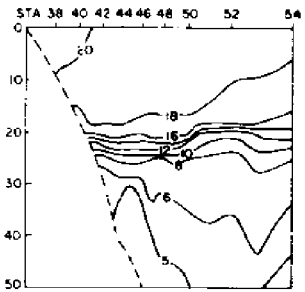
DAILY LONGSHORE VELOCITY TRANSPORT (u) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	1.94	0.0	1.94^5
2	4.31	-0.01	4.31^8
ROCHESTER	---	---	---
OLCOTT - 1	0.72	-1.62	-0.90
2	0.84	-1.03	-0.20
OSHAWA	1.88	-0.17	1.70
PRESQU'ILE	0.15	-4.46	-4.31

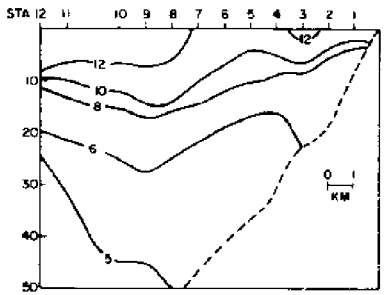
CROSS SECTIONS OF TEMPERATURE

DATE: 9/18

OLCOTT



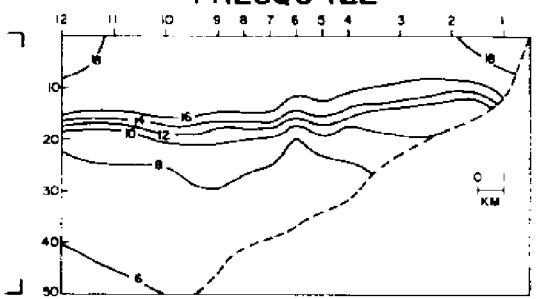
OSHAWA



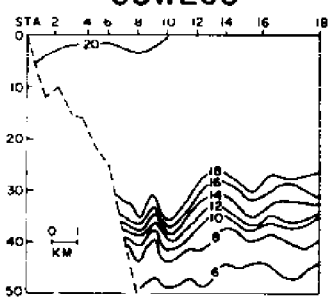
ROCHESTER

no data

PRESQU'ILE



OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO - 1	0.08	0.0	0.08^5
2	0.07	0.26	0.33^8
ROCHESTER	---	---	---
OLCOTT - 1	-0.51	-1.36	-1.88
2	0.14	-0.64	-0.51
OSHAWA	1.36	0.18	1.53
PRESQU'ILE	-1.23	-3.36	-4.59

DATE: 9/18

HOURLY WIND SPEED AND STRESS

TIME GMT	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	E
0	1.30	255	4	1	
1	2.08	322	5	- 5	
2	3.06	360	0	-13	
3	3.53	038	-12	-14	
4	2.62	054	- 8	- 6	
5	3.06	068	-12	- 4	
6	4.32	079	-29	- 5	
7	5.19	100	-42	- 7	
8	5.28	111	-40	14	
9	4.25	120	-24	14	
10	3.11	098	-14	- 2	
11	2.95	076	-12	- 3	
12	3.71	088	-20	0	
13	4.30	097	-30	5	
14	4.62	117	-29	14	
15	4.66	111	-30	12	
16	4.53	130	-24	20	
17	4.20	119	-24	13	
18	3.91	153	-10	21	
19	3.95	122	-20	13	
20	5.28	141	-28	34	
21	3.73	093	-21	1	
22	4.53	091	-32	1	
23	5.03	083	-38	3	
AVER			-21	5	22

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	E
0	3.73	263	21	2	
1	2.72	290	11	- 3	
2	2.34	327	5	- 6	
3	3.80	001	0	-21	
4	5.68	357	3	-48	
5	5.22	007	- 4	-40	
6	4.50	026	-12	-28	
7	4.56	047	-23	-22	
8	4.55	058	-26	-16	
9	3.71	094	-20	1	
10	3.46	094	-17	2	
11	3.08	104	-13	4	
12	4.32	084	-27	- 2	
13	4.52	088	-31	0	
14	3.66	119	-20	12	
15	3.37	155	- 7	17	
16	2.93	158	- 4	16	
17	3.02	132	-10	11	
18	3.35	145	- 9	14	
19	1.90	129	- 5	4	
20	1.90	089	- 7	1	
21	2.59	041	- 7	- 7	
22	4.46	064	-26	-12	
23	4.84	062	-30	-15	
AVER			-10.8	- 5.7	12.2

TIME GMT	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	E
0	1.88	325	1	2	
1	2.98	008	- 3	0	
2	1.47	083	- 9	- 4	
3	1.92	102	- 6	- 1	
4	2.57	087	-14	3	
5	1.94	079	-20	0	
6	2.88	082	-22	- 6	
7	4.68	123	-41	- 9	
8	3.87	125	-41	28	
9	4.21	129	-39	37	
10	3.23	097	-42	22	
11	4.01	066	-18	12	
12	4.27	093	-31	5	
13	4.69	080	- 9	9	
14	5.48	100	- 9	2	
15	6.62	099	-15	5	
16	5.11	088	-17	-10	
17	5.31	073	-27	- 5	
18	5.26	080	-20	- 5	
19	5.43	110	-36	- 8	
20	4.42	088	-29	-17	
21	4.78	076	-42	-17	
22	5.25	076	-26	-13	
23	4.69	094	-23	-10	
AVER			-23	1	23

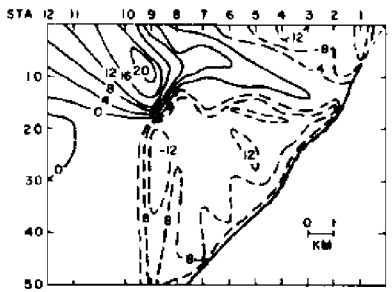
CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 9/19

OLCOTT

DEPTH (M)

no data

OSHAWA



ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

DAILY LONGSHORE VELOCITY TRANSPORT (υ)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.83	-2.48	-1.65^{10}
PRESQU'ILE	---	---	---

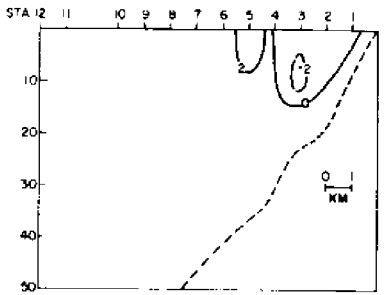
CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 9/19

OLCOTT

DEPTH (M)

no data

OSHAWA



ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (υ_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.86	-0.31	0.55^{10}
PRESQU'ILE	---	---	---

CROSS SECTIONS OF TEMPERATURE

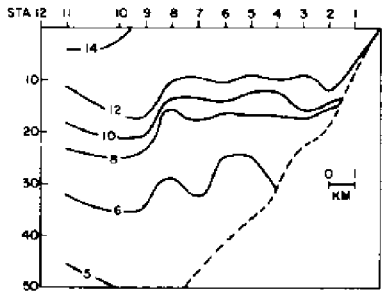
DATE: 9/19

OLCOTT

DEPTH (M)

no data

OSHAWA



ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	-0.03	-2.17	-2.20^{10}
PRESQU'ILE	---	---	---

DATE: 9/19

HOURLY WIND SPEED AND STRESS

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	5.44	071	-42	-14	
1	5.99	093	-57	3	
2	5.62	066	-46	-21	
3	7.78	044	-63	-68	
4	7.40	045	-60	-60	
5	7.43	055	-77	-53	
6	9.44	042	-88	-99	
7	9.25	031	-72	-120	
8	10.41	017	-46	-158	
9	10.13	360	1	-162	
10	10.93	022	-65	-166	
11	8.79	020	-46	-133	
12	10.22	020	-56	-161	
13	9.38	044	-101	-108	
14	10.80	028	-81	-155	
15	9.21	045	-105	-105	
16	9.33	013	-30	-137	
17	9.26	034	-74	-114	
18	8.70	031	-59	-99	
19	7.09	043	-52	-56	
20	7.51	046	-61	-60	
21	9.32	049	-97	-86	
22	8.06	033	-56	-87	
23	8.64	049	-86	-75	
AVER			-63.3	-95.6	114.6

BUOY 10 (ROCHESTER & PRESQU'ILE)

	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
	3.36	065	-17	- 6	
	3.73	092	-21	1	
	4.14	052	-22	-21	
	5.76	082	-53	- 7	
	6.40	073	-63	-20	
	7.64	047	-64	-61	
	7.66	048	-70	-63	
	8.23	068	-100	-39	
	8.69	044	-78	-80	
	8.32	039	-71	-85	
	8.55	058	-104	-63	
	9.61	047	-103	-97	
	9.54	041	-92	-110	
	8.86	044	-83	-84	
	8.62	047	-85	-78	
	9.05	054	-100	-75	
	7.29	018	-28	-90	
	7.95	039	-64	-78	
	6.34	043	-46	-50	
	5.28	073	-41	-12	
	3.83	094	-22	1	
	0.59	093	- 1	0	
	1.10	323	1	- 1	
	3.97	050	-32	-21	
			-58	-48	75

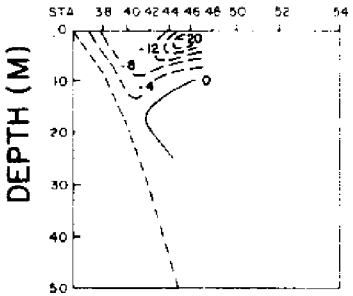
BUOY 5 (OLCOTT & OSHAWA)

	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
	4.65	079	-50	-31	
	4.91	099	-52	0	
	4.51	037	-22	- 9	
	3.06	027	-23	-26	
	3.87	008	- 4	-25	
	3.97	033	- 6	-33	
	4.29	021	-23	-23	
	4.57	017	-35	-10	
	6.72	010	- 2	- 3	
	6.62	036	-47	-39	
	6.27	026	-76	-51	
	7.58	035	-31	-65	
	7.84	046	-99	-51	
	7.24	057	-85	-59	
	6.01	032	-47	-40	
	6.17	040	-57	-39	
	6.73	031	-40	-47	
	8.19	033	-60	-33	
	6.44	031	-108	-34	
	5.22	066	-70	-47	
	3.45	089	-26	-13	
	2.07	151	-15	- 5	
	2.25	175	-15	2	
	1.00	191	- 9	2	
			-43	-29	52

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY

DATE: 9/20

OLCOTT



OSHAWA

no data

ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

DAILY LONGSHORE VELOCITY TRANSPORT (u)

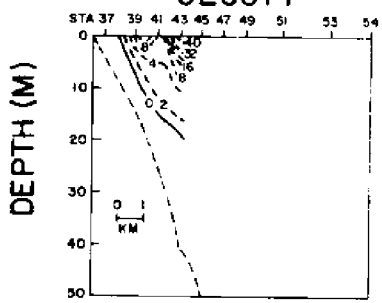
(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	0.02	-0.35	-0.34^4
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY

DATE: 9/20

OLCOTT



OSHAWA

no data

ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

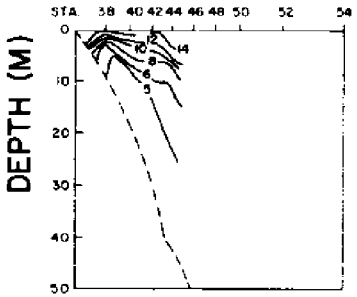
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	0.0	-0.31	-0.31^4
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

CROSS SECTIONS OF TEMPERATURE

DATE: 9/20

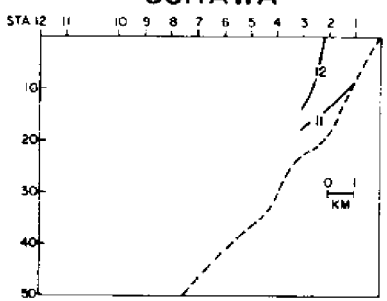
OLCOTT



ROCHESTER

no data

OSHAWA



PRESQU'ILE

no data

OSWEGO

no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	0.02	-0.04	-0.02^4
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

HOURLY WIND SPEED AND STRESS

DATE: 9/20

BUOY 10 (ROCHESTER & PRESQU'ILE)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	7.48	054	-71	-50	
1	8.30	091	-102	1	
2	8.55	060	-98	-56	
3	9.13	060	-113	-67	
4	9.67	070	-133	-48	
5	9.27	082	-130	-17	
6	7.82	073	-96	-29	
7	7.98	096	-100	12	
8	7.47	086	-86	- 5	
9	7.60	108	-86	28	
10	6.94	082	-79	- 9	
11	7.09	055	-65	-46	
12	8.04	062	-87	-45	
13	7.88	067	-92	-39	
14	7.30	099	-87	14	
15	7.61	108	-89	30	
16	7.94	093	-104	4	
17	6.64	106	-73	21	
18	6.08	107	-60	17	
19	6.77	090	-70	0	
20	6.13	124	-48	34	
21	5.03	108	-40	13	
22	5.86	089	-53	0	
23	6.07	118	-54	29	
AVER			-85	- 9	86

BUOY 5 (OLCOTT & OSHAWA)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	0.06	003	- 4	7	
1	1.75	031	-11	- 2	
2	4.41	056	-29	- 9	
3	8.12	071	-66	0	
4	8.55	078	-120	2	
5	9.31	084	-142	21	
6	8.30	092	-135	-34	
7	8.23	086	-99	1	
8	7.31	082	-99	10	
9	6.48	097	-69	7	
10	6.52	116	-70	-37	
11	6.91	079	-96	- 9	
12	7.89	082	-109	- 4	
13	7.80	081	-76	-44	
14	8.23	108	-54	30	
15	8.97	102	-127	- 8	
16	8.43	100	-135	-10	
17	8.28	100	-106	-24	
18	6.84	099	-113	-18	
19	6.54	116	-100	-13	
20	7.00	124	-108	-12	
21	7.40	115	-109	6	
22	7.13	116	-96	8	
23	7.45	105	-83	11	
AVER			-91	- 6	91

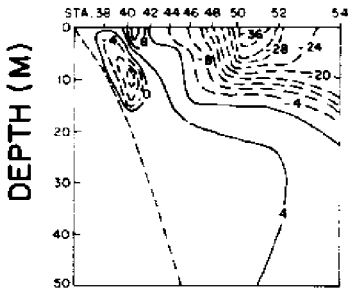
BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	8.65	064	-101	-49	
1	9.13	064	-111	-55	
2	7.76	040	-69	-83	
3	7.75	072	-102	-132	
4	8.81	069	-113	-44	
5	9.45	086	-134	- 8	
6	9.04	066	-118	-51	
7	9.32	060	-120	-68	
8	8.48	077	-112	-24	
9	7.65	089	-93	- 2	
10	6.68	094	-67	4	
11	7.05	066	-70	-31	
12	7.55	076	-93	-23	
13	8.71	085	-119	- 9	
14	7.65	049	-76	-67	
15	7.32	071	-80	-26	
16	6.61	087	-68	- 4	
17	4.34	088	-29	0	
18	3.09	108	-14	5	
19	2.65	118	- 9	5	
20	2.86	086	-12	0	
21	3.40	079	-16	- 2	
22	3.97	077	-22	- 4	
23	4.59	071	-29	-10	
AVER			-74.0	-24.1	77.9

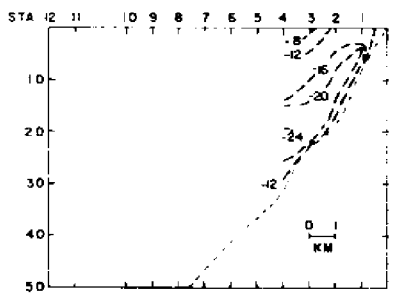
CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY

DATE: 9/21

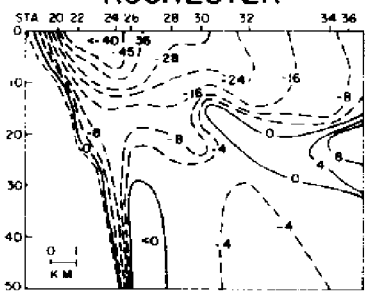
OLCOTT



OSHAWA



ROCHESTER



PRESQU'ILE

no data

OSWEGO

no data

DAILY LONGSHORE VELOCITY TRANSPORT (u)

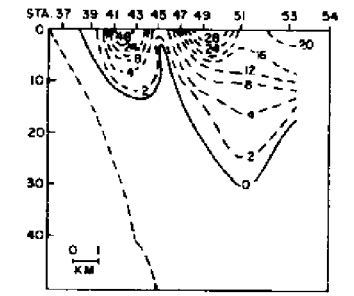
(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.0	-0.14	-0.14^1
ROCHESTER	1.54	-6.04	-4.50
OLCOTT - 1	0.67	-1.73	-1.06^8
2	1.10	-1.76	-0.66^8
OSHAWA	0.0	-1.32	-1.32^4
PRESQU'ILE	---	---	---

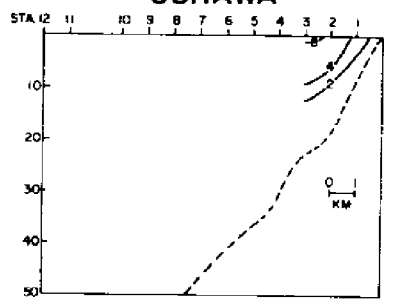
CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY

DATE: 9/21

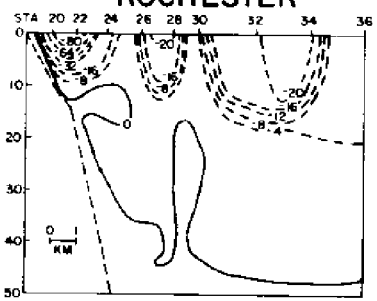
OLCOTT



OSHAWA



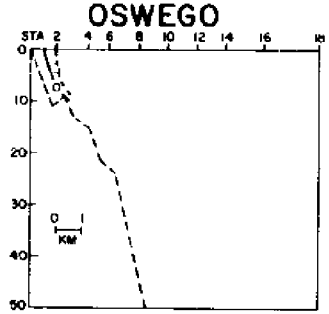
ROCHESTER



PRESQU'ILE

no data

OSWEGO



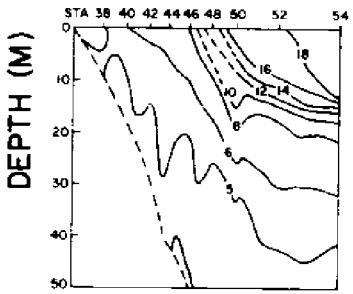
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.0	0.0	0.0^1
ROCHESTER	0.49	-5.63	-5.14
OLCOTT - 1	0.01	-2.02	-2.01^8
2	0.03	-1.45	-1.42^8
OSHAWA	0.26	0.0	0.26^4
PRESQU'ILE	---	---	---

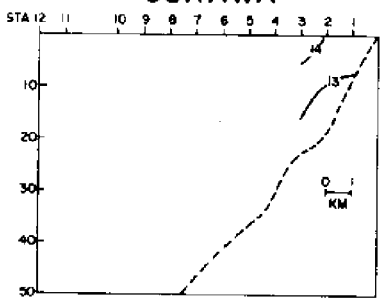
CROSS SECTIONS OF TEMPERATURE

DATE: 9/21

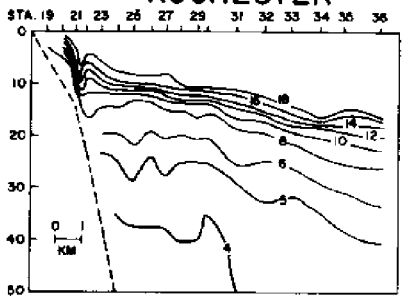
OLCOTT



OSHAWA



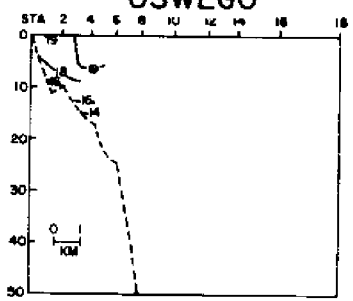
ROCHESTER



PRESQU'ILE

no data

OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.0	-0.14	-0.14^1
ROCHESTER	1.05	-0.41	$0.63^{}$
OLCOTT - 1	0.66	0.29	0.95^8
2	1.07	-0.31	0.76^8
OSHAWA	-0.26	-1.32	-1.58^4
PRESQU'ILE	---	---	---

HOURLY WIND SPEED AND STRESS

DATE: 9/21

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	4.99	107	-36	11	
1	5.65	137	-35	38	
2	8.68	158	-43	106	
3	9.31	164	-37	130	
4	8.53	160	-41	110	
5	8.37	187	13	103	
6	8.13	189	16	103	
7	8.04	189	15	97	
8	8.54	187	13	109	
9	8.07	168	-19	98	
10	9.08	194	29	122	
11	9.00	168	-24	123	
12	9.10	189	20	130	
13	7.81	167	-25	108	
14	8.53	186	13	119	
15	9.08	192	28	124	
16	8.57	197	32	107	
17	7.92	207	43	84	
18	7.38	199	26	77	
19	6.33	215	38	52	
20	6.76	209	33	60	
21	5.39	198	16	46	
22	4.31	189	4	29	
23	5.12	187	5	43	
AVER			3.5	88.7	88.8

BUOY 10 (ROCHESTER & PRESQU'ILE)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	6.67	134	-52	54	
1	8.02	141	-62	79	
2	7.92	143	-58	78	
3	7.48	131	-66	57	
4	6.59	165	-16	63	
5	5.31	175	- 4	48	
6	6.09	183	- 4	62	
7	7.29	182	3	82	
8	7.81	190	16	94	
9	6.77	206	33	66	
10	6.66	187	9	67	
11	5.57	177	- 1	50	
12	6.41	186	- 7	64	
13	6.23	196	18	60	
14	6.58	179	0	65	
15	5.86	195	13	53	
16	4.67	155	-14	31	
17	4.76	167	- 7	36	
18	4.51	155	-13	29	
19	4.26	148	-14	25	
20	4.96	148	-19	32	
21	3.13	137	-11	12	
22	0.71	130	0	1	
23	0.42	214	0	0	
AVER			-10	50	51

BUOY 5 (OLCOTT & OSHAWA)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	6.87	129	-104	45	
1	7.00	133	-87	30	
2	7.34	129	-68	33	
3	7.05	133	-68	27	
4	6.09	139	-12	48	
5	6.34	155	- 6	41	
6	6.58	177	28	37	
7	7.44	199	16	42	
8	6.36	197	12	27	
9	6.13	180	6	34	
10	5.94	207	20	34	
11	6.42	202	3	29	
12	5.98	204	3	18	
13	5.43	197	4	14	
14	4.76	190	0	12	
15	3.59	190	0	6	
16	1.93	175	20	5	
17	1.37	114	12	- 3	
18	1.55	103	8	- 3	
19	2.56	112	2	0	
20	2.69	127	2	0	
21	2.80	147	10	11	
22	3.10	157	0	10	
23	3.06	177	21	12	
AVER			13	21	26

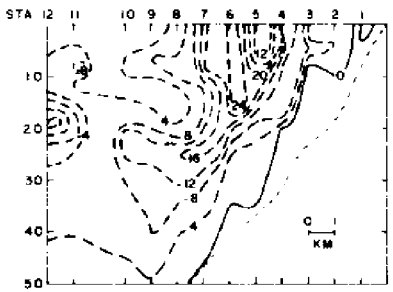
CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 9/22

OLCOTT

DEPTH (M)

no data

OSHAWA



ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.01	-3.74	-3.73
PRESQU'ILE	---	---	---

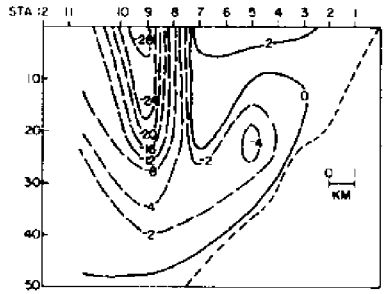
CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 9/22

OLCOTT

DEPTH (M)

no data

OSHAWA



ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.65	-3.39	-2.74
PRESQU'ILE	---	---	---

CROSS SECTIONS OF TEMPERATURE

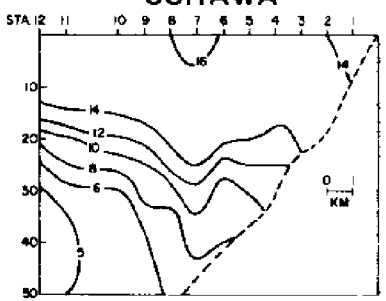
DATE: 9/22

DEPTH (M)

OLCOTT

no data

OSHAWA



ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT		---	---
OSHAWA	-0.64	-0.35	-0.99
PRESQU'ILE	---	---	---

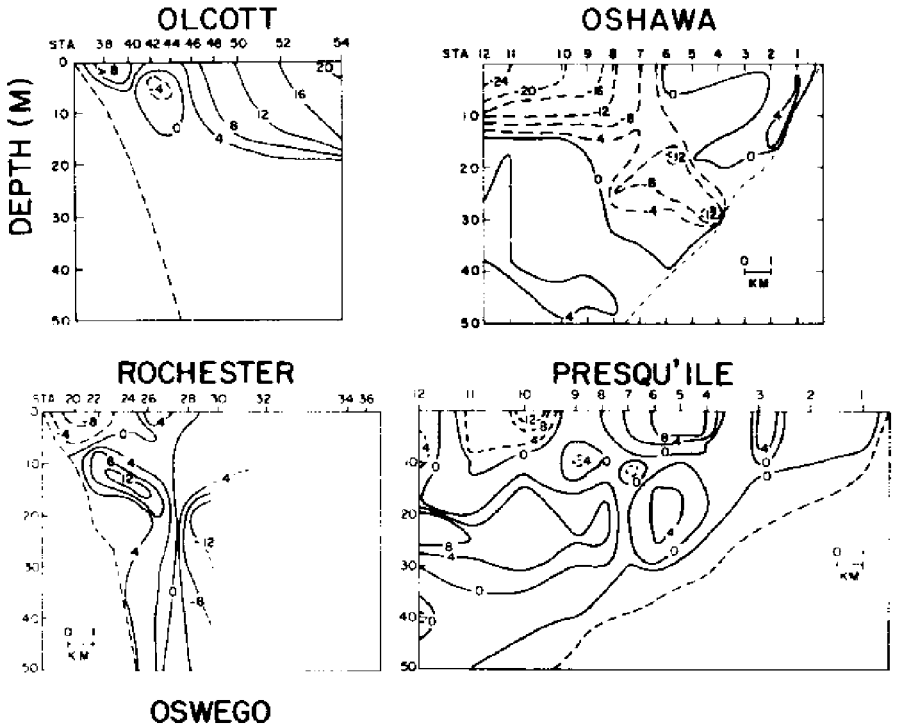
DATE: 9/22

HOURLY WIND SPEED AND STRESS

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	6.67	197	19	63		1.95	215	4	5		3.75	193	24	10	
1	7.75	205	38	80		2.89	237	11	7		4.83	240	43	31	
2	7.30	230	63	52		4.44	239	21	17		7.61	254	64	18	
3	6.32	220	38	46		6.34	257	65	10		6.22	283	77	13	
4	6.26	239	52	31		8.11	306	87	-59		7.84	331	105	23	
5	6.69	305	64	-45		7.42	295	85	-35		8.06	308	130	31	
6	6.69	318	50	-56		8.38	313	85	-76		9.37	312	98	2	
7	8.27	322	63	-83		9.66	328	78	-122		10.88	341	77	-113	
8	9.63	327	78	-124		12.40	342	75	-224		13.03	339	61	- 4	
9	9.96	335	70	-146		12.10	334	101	-199		10.35	316	106	5	
10	10.00	331	75	-134		11.44	336	97	-199		9.24	328	18	-68	
11	9.86	304	129	-86		10.94	341	62	-180		7.94	010	- 5	-51	
12	9.28	326	82	-121		9.49	328	81	-124		6.70	011	39	-42	
13	9.51	338	53	-130		9.18	358	5	-130		6.38	001	17	-34	
14	8.33	350	19	-110		7.37	351	14	-83		3.92	008	16	-17	
15	8.50	336	46	-102		5.87	342	17	-52		4.78	327	- 4	-25	
16	5.74	311	47	-43		5.32	334	20	-41		4.60	316	7	- 9	
17	5.78	315	41	-39		5.73	300	51	-29		4.98	289	22	- 3	
18	6.68	318	50	-56		6.92	260	78	15		5.53	268	38	1	
19	7.82	297	84	-41		6.79	280	86	-13		7.07	265	56	2	
20	6.62	272	73	0		7.97	314	75	-71		7.66	263	64	13	
21	5.39	308	36	-28		7.95	277	105	-13		6.43	263	55	29	
22	5.76	320	32	-37		8.71	284	112	-26		6.42	344	49	5	
23	5.98	299	48	-26		8.28	314	76	-72		6.54	328	15	-38	50
AVER			56.3	-47.3	73.5			62	-71	93			49	-10	

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY

DATE: 9/23



no data

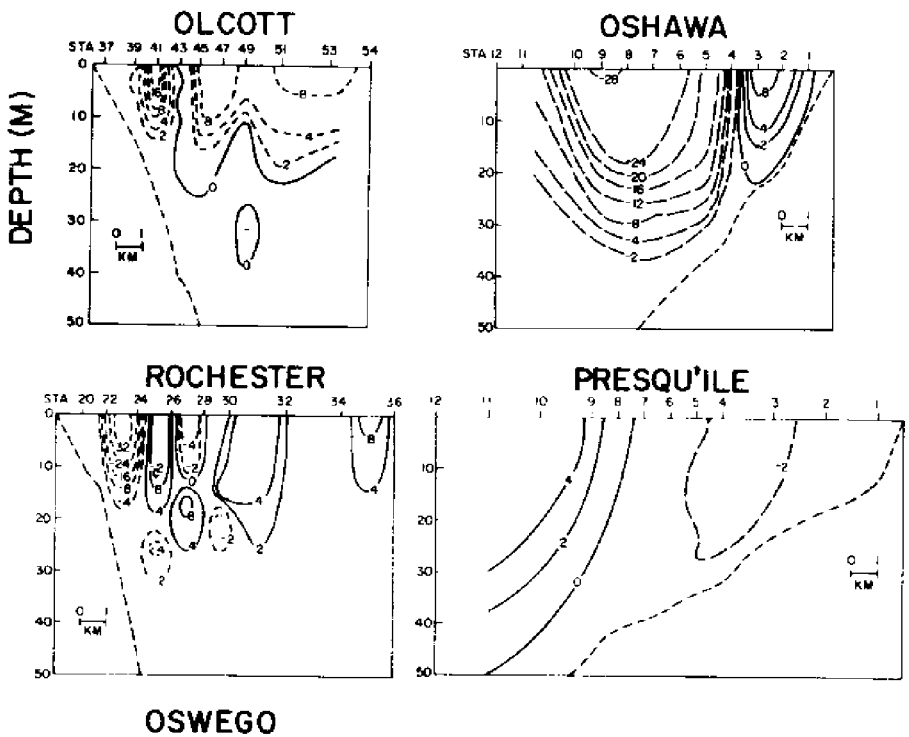
DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	0.74	-0.81	-0.07
OLCOTT	1.76	-0.15	1.61
OSHAWA	0.70	-2.01	-1.32
PRESQU'ILE	1.05	-0.33	0.73

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY

DATE: 9/23



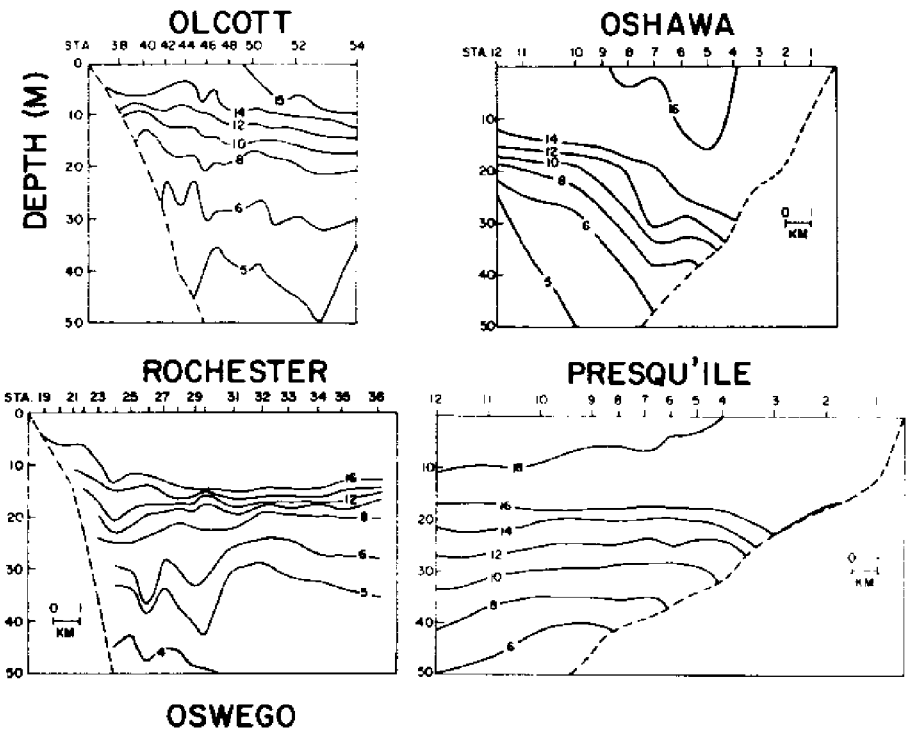
no data

DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	0.58	-1.01	-0.43
OLCOTT	0.04	-0.77	-0.74
OSHAWA	0.27	-4.42	-4.15
PRESQU'ILE	1.20	-0.86	0.34

CROSS SECTIONS OF TEMPERATURE

DATE: 9/23



no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	0.16	0.20	0.36
OLCOTT	1.72	0.62	2.34
OSHAWA	0.43	2.41	2.84
PRESQU'ILE	-0.15	0.53	0.39

DATE: 9/23

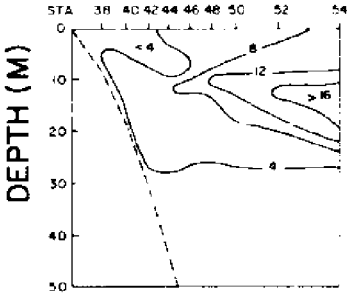
HOURLY WIND SPEED AND STRESS

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	6.60	325	38	-54		7.72	337	37	-85		6.34	347	-25	-60	
1	7.54	314	64	-63		8.63	324	67	-91		7.05	349	-30	-76	
2	8.57	319	75	-84		7.87	347	25	-102		6.40	003	-41	-87	
3	9.21	347	29	-128		7.63	346	22	-91		5.35	351	-22	-56	
4	9.48	353	17	-135		6.90	001	- 2	-81		5.63	355	-37	-39	
5	8.38	000	0	-107		7.33	018	-25	-77		5.17	015	-27	-28	
6	6.13	009	- 8	-61		7.89	039	-60	-74		5.10	007	-25	-20	
7	6.01	038	-33	-43		7.19	052	-61	-47		3.67	015	-22	-13	
8	5.58	040	-30	-36		5.56	068	-45	-17		3.53	044	-17	- 3	
9	4.72	065	-31	-14		5.16	083	-40	- 4		3.39	066	-11	1	
10	4.12	089	-25	0		5.02	092	-39	1		3.80	098	7	20	
11	3.92	107	-21	7		5.25	089	-43	0		4.77	117	12	19	
12	4.28	118	-26	14		4.90	123	-31	20		3.65	162	13	14	
13	4.27	141	-17	22		3.58	144	-12	25		2.91	179	3	9	
14	4.12	160	- 8	25		5.61	157	-18	45		2.78	162	0	5	
15	3.83	157	- 8	21		5.75	164	-13	49		2.85	133	- 5	- 1	
16	3.84	145	-13	+19		4.98	175	- 3	39		3.94	134	-29	- 3	
17	3.33	113	-15	7		4.70	148	-17	29		4.55	133	-49	- 3	
18	3.32	153	- 7	15		5.30	142	-26	34		6.07	118	-57	-10	
19	3.25	135	-11	12		5.68	099	-48	8		6.12	100	-92	-26	
20	2.59	105	-10	3		5.42	111	-49	15		7.62	113	-90	- 3	
21	2.90	092	-14	1		5.95	124	-46	32		7.41	100	-100	28	
22	3.05	107	-14	4		6.30	108	-60	20		7.45	109	-123	34	
23	4.26	125	-22	16		6.88	134	-51	51		8.33	116	-38	48	
AVER			- 3.8	-23.3	23.6			-23	-13	27			-34	-11	36

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY

DATE: 9/24

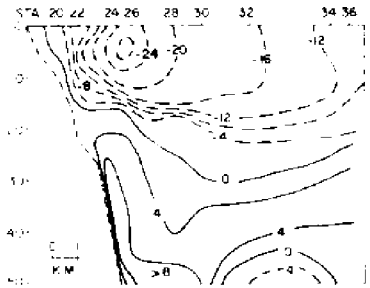
OLCOTT



OSHAWA

no data

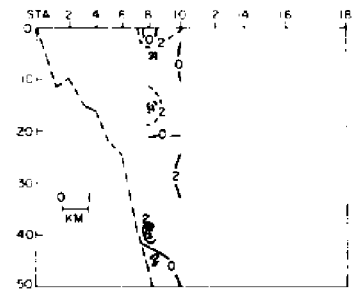
ROCHESTER



PRESQU'ILE

no data

OSWEGO



DAILY LONGSHORE VELOCITY TRANSPORT (u)

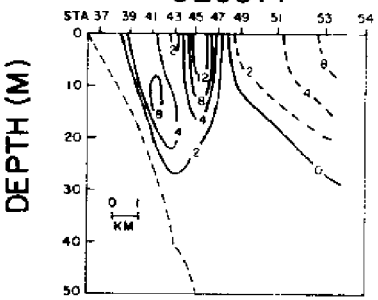
(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.08	-0.08	0.01^2
ROCHESTER	0.09	-2.97	-1.98
OLCOTT	2.33	-0.01	2.33^7
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY

DATE: 9/24

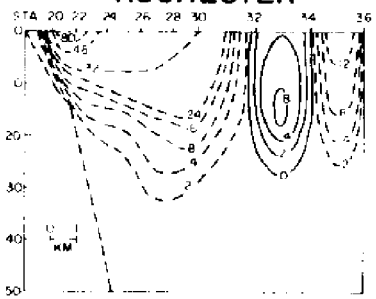
OLCOTT



OSHAWA

no data

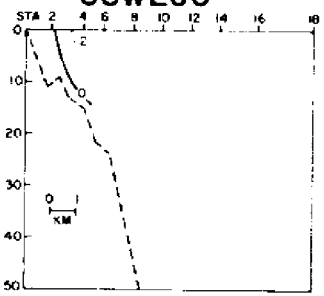
ROCHESTER



PRESQU'ILE

no data

OSWEGO



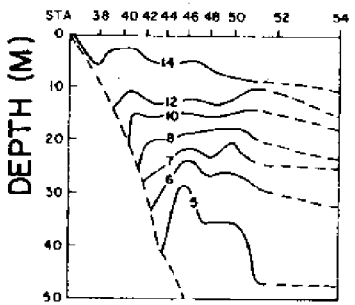
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.10	-0.08	-0.02^2
ROCHESTER	0.71	-4.14	-3.43
OLCOTT	0.42	-0.38	0.04^7
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

CROSS SECTIONS OF TEMPERATURE

DATE: 9/24

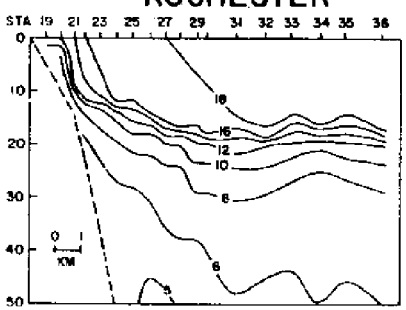
OLCOTT



OSHAWA

no data

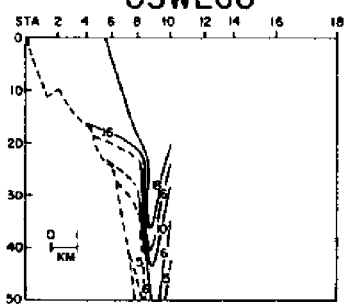
ROCHESTER



PRESQU'ILE

no data

OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	-0.02	0.0	0.03^2
ROCHESTER	0.28	1.17	1.45
OLCOTT	1.91	0.37	2.29^7
OSHAWA	---	---	---
PRESQU'ILE	---	---	---

HOURLY WIND SPEED AND STRESS

DATE: 9/24

BUOY 10 (ROCHESTER & PRESQU'ILE)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	7.34	143	-49	66	
1	7.83	151	-48	86	
2	8.99	143	-78	101	
3	8.25	161	-35	103	
4	8.30	174	-10	105	
5	7.65	180	0	91	
6	7.35	217	49	66	
7	2.53	204	10	17	
8	3.57	154	- 9	20	
9	6.57	184	- 8	69	
10	8.27	179	- 1	106	
11	8.19	174	-10	105	
12	8.04	170	-17	97	
13	6.57	194	17	67	
14	5.52	174	- 4	51	
15	5.63	204	21	46	
16	4.84	205	15	33	
17	4.72	200	12	33	
18	4.75	220	23	27	
19	3.98	196	7	26	
20	3.37	190	3	17	
21	2.02	160	- 1	6	
22	2.20	179	0	8	
23	1.16	141	- 5	2	
AVER			- 5	56	56

BUOY 5 (OLCOTT & OSHAWA)

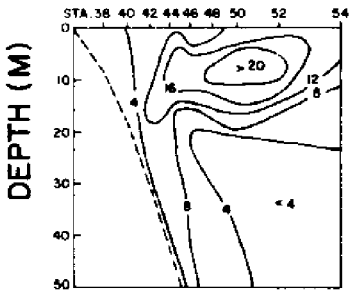
WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
7.78	123	-58	49	
7.92	130	-72	40	
7.71	144	-63	24	
7.76	143	-31	26	
6.30	158	-10	19	
5.78	197	- 6	7	
3.46	180	-29	13	
3.98	132	-24	34	
6.19	145	-28	37	
7.19	172	-35	27	
8.32	177	-25	32	
7.30	169	-19	29	
6.46	161	-17	13	
4.61	158	-15	12	
3.64	158	- 7	10	
2.90	166	0	7	
2.73	178	3	7	
1.74	168	2	3	
1.94	227	0	1	
1.47	196	0	- 1	
2.06	011	- 1	- 6	
1.73	064	- 4	- 1	
2.11	112	- 2	3	
1.60	113	-11	15	26
		-20	17	

BUOY 11 (OSWEGO)

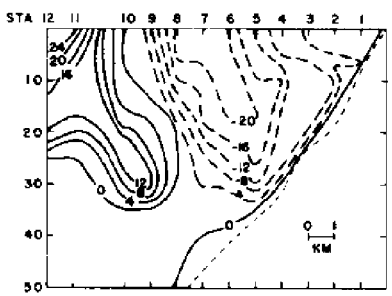
TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	4.91	131	-27	26	
1	6.32	146	-34	51	
2	7.49	147	-47	75	
3	7.60	169	-17	89	
4	8.22	192	22	102	
5	9.23	184	12	135	
6	9.85	192	32	147	
7	9.49	191	25	135	
8	8.33	208	50	97	
9	9.38	198	41	130	
10	8.76	182	7	120	
11	9.82	188	19	146	
12	10.34	181	1	168	
13	10.43	175	-12	167	
14	9.76	193	34	144	
15	9.73	185	13	145	
16	9.73	186	14	142	
17	8.75	180	0	117	
18	8.65	203	44	106	
19	8.01	209	48	88	
20	7.24	209	39	72	
21	7.08	195	20	73	
22	6.83	189	11	69	
23	6.17	177	- 3	59	
AVER			12.2	108.5	109.1

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 9/25

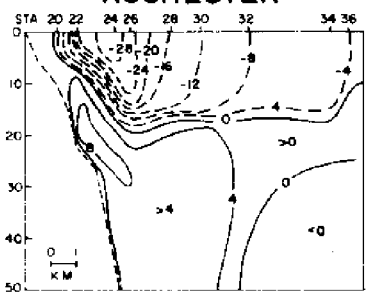
OLCOTT



OSHAWA



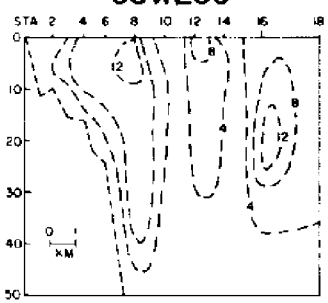
ROCHESTER



PRESQU'ILE

no data

OSWEGO



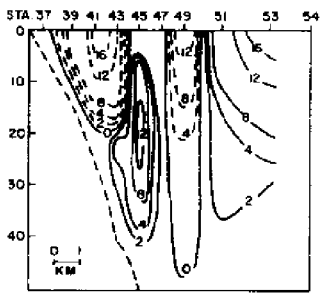
DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

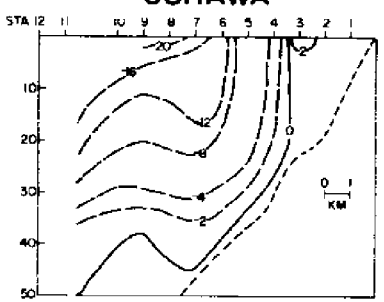
LINE	POS	NEG	TOT
OSWEGO	0.0	-2.08	-2.08
ROCH. - 1	0.87	-2.08	-1.21
2	1.43	-0.52	+0.91
OLCOTT - 1	3.15	-0.02	3.12^8
2	2.56	-0.25	2.30^8
OSHAWA	1.46	-2.59	-1.13
PRESQU'ILE	---	---	---

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 9/25

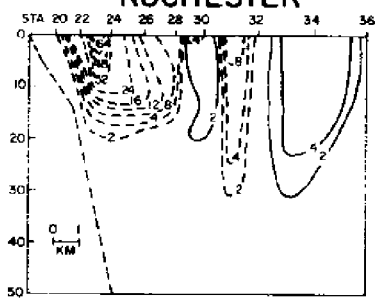
OLCOTT



OSHAWA



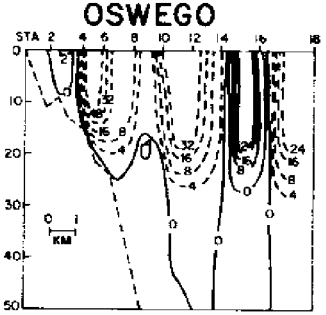
ROCHESTER



PRESQU'ILE

no data

OSWEGO



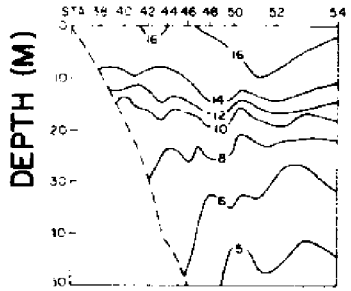
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.31	-2.92	-2.61
ROCH. - 1	0.41	-1.73	-1.32
2	0.09	-2.10	-2.01
OLCOTT - 1	0.38	-0.35	0.02^8
2	1.27	-0.61	0.66^8
OSHAWA	0.17	4.64	-4.46
PRESQU'ILE	---	---	---

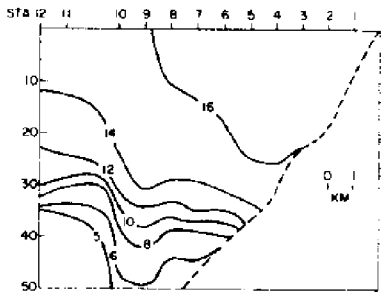
CROSS SECTIONS OF TEMPERATURE

DATE: 9/25

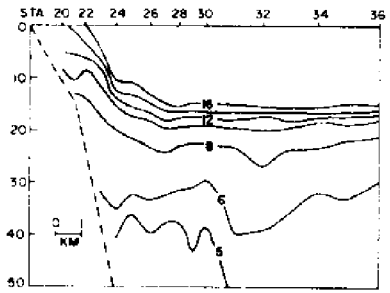
OLCOTT



OSHAWA



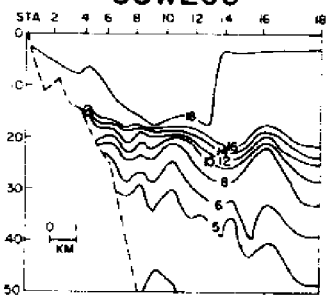
ROCHESTER



PRESQU'ILE

no data

OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	-0.31	+0.84	0.52
ROCH. - 1	0.46	-0.35	0.11
2	1.34	1.58	2.92
OLCOTT - 1	2.77	0.33	3.10^8
2	1.29	0.36	1.64^8
OSHAWA	1.29	2.05	3.33
PRESQU'ILE	---	---	---

HOURLY WIND SPEED AND STRESS

DATE: 9/25

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	6.41	182	2	63		0.75	122	0	1		1.97	129	-15	7	
1	7.37	207	37	72		1.10	133	-1	2		1.79	121	-9	8	
2	6.69	206	30	61		1.39	150	-1	4		2.31	134	2	8	
3	6.62	209	33	59		3.03	217	9	11		1.75	138	8	6	
4	6.73	200	24	65		3.21	227	12	11		2.40	213	7	7	
5	6.02	224	39	40		2.63	225	7	7		1.69	272	8	6	
6	5.94	229	41	35		2.55	252	9	3		2.47	246	14	7	
7	5.01	226	29	28		1.88	263	6	1		4.38	252	9	1	
8	3.77	223	17	18		1.70	293	4	-1		3.61	271	4	3	
9	3.70	220	13	17		2.12	271	7	0		1.27	276	2	6	
10	3.48	226	13	13		1.91	267	6	0		0.88	130	14	16	
11	3.41	233	14	10		1.47	256	3	1		1.88	124	5	14	
12	3.04	230	11	9		0.96	226	1	1		2.81	135	6	16	
13	3.03	214	9	13		1.78	179	0	5		2.92	154	0	12	
14	3.25	201	5	16		3.27	187	2	17		4.38	197	0	12	
15	4.98	210	18	32		4.57	190	6	32		4.33	187	13	19	
16	4.90	203	14	33		4.01	190	4	24		3.23	169	20	16	
17	4.49	203	12	28		4.04	188	4	24		3.25	204	22	11	
18	3.97	182	1	24		3.38	182	1	18		3.17	224	20	8	
19	3.10	173	-1	15		2.97	201	5	14		3.22	236	15	7	
20	2.46	196	2	9		4.45	239	26	15		3.51	227	25	14	
21	3.05	227	11	9		3.24	230	12	10		4.79	225	22	12	
22	2.94	224	9	9		3.81	242	20	11		3.87	237	20	6	
23	3.14	221	10	11		3.85	256	23	5		3.22	230	10	7	13
AVER			16.4	28.7	33.1			7	9	11			9	10	

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 9/26

OLCOTT

no data

OSHAWA

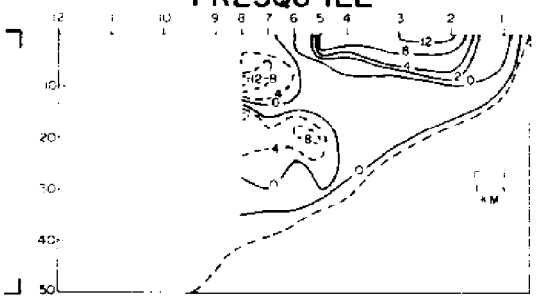
no data

DEPTH (M)

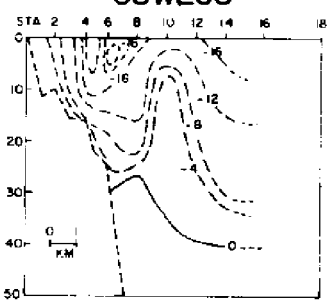
ROCHESTER

no data

PRESQU'ILE



OSWEGO



DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.0	-1.65	-1.65^6
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	---	---	---
PRESQU'ILE	0.31	-0.47	-0.16^8

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 9/26

OLCOTT

no data

OSHAWA

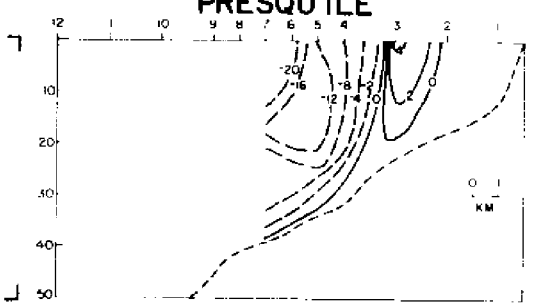
no data

DEPTH (M)

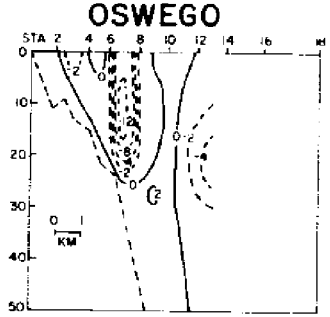
ROCHESTER

no data

PRESQU'ILE



OSWEGO



DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.02	-0.45	-0.43^6
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	---	---	---
PRESQU'ILE	0.10	-1.86	-1.76^8

CROSS SECTIONS OF TEMPERATURE

DATE: 9/26

DEPTH (M)

OLCOTT

no data

OSHAWA

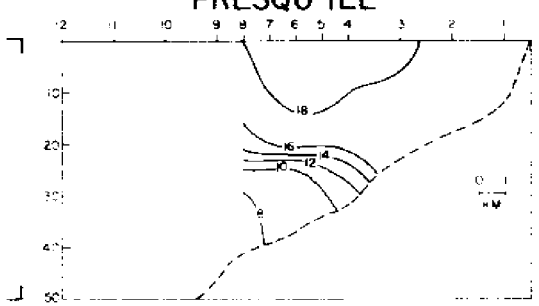
no data

DATE: 9/26

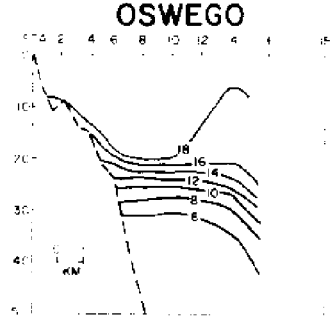
ROCHESTER

no data

PRESQU'ILE



OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	-0.02	-1.20	-1.22^6
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	---	---	---
PRESQU'ILE	0.21	-1.39	1.60^8

HOURLY WIND SPEED AND STRESS

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	3.45	226	13	13		2.70	229	9	8		4.13	217	5	11	
1	3.57	212	10	16		4.25	208	13	25		3.02	225	13	16	
2	4.07	221	17	19		3.45	202	7	17		3.25	225	13	20	
3	4.61	210	16	28		4.34	203	11	26		3.25	206	12	15	
4	5.53	216	27	38		4.66	206	15	31		3.72	213	14	14	
5	5.87	214	31	45		4.51	214	18	28		4.00	215	11	9	
6	5.95	217	32	42		4.69	209	16	29		4.05	211	10	10	
7	5.78	215	28	41		4.64	211	17	29		3.55	203	24	17	
8	5.61	221	31	36		4.83	205	15	34		4.84	227	59	33	
9	5.89	217	32	43		6.26	244	57	28		6.87	228	56	35	
10	5.99	233	43	33		6.56	254	71	20		8.67	251	45	30	
11	5.94	253	51	15		7.31	245	73	33		6.52	227	36	19	
12	6.66	252	64	20		5.17	244	39	17		6.00	213	30	30	
13	5.79	252	49	16		4.86	204	16	36		5.45	210	44	28	
14	5.85	227	38	35		4.61	212	19	32		4.94	240	42	36	
15	4.08	209	14	24		6.26	201	22	56		5.98	212	5	26	
16	5.10	199	13	38		5.73	201	18	47		5.19	207	31	43	
17	4.18	208	12	23		3.51	197	6	19		5.00	201	83	69	
18	4.15	211	13	23		3.71	180	2	24		7.13	233	91	72	
19	6.07	213	32	47		6.01	230	48	42		7.58	237	76	33	
20	6.29	251	58	22		7.13	245	78	38		8.16	248	55	27	
21	6.90	243	68	34		5.21	249	44	16		7.63	246	47	30	
22	7.07	257	76	17		6.71	246	67	31		6.91	238	44	23	
23	7.00	264	75	9		6.04	244	56	27	42	6.33	235	48	18	46
AVER			35.1	28.2	45.1			31	29				37	28	

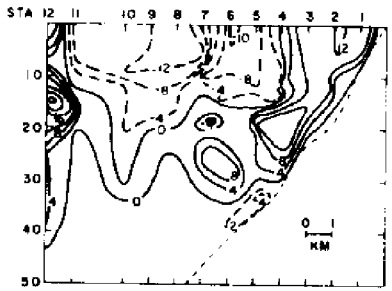
CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY

DATE: 9/27

OLCOTT

no data

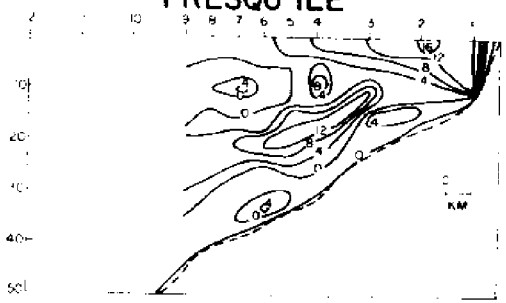
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	1.33	-1.34	-0.01
PRESQU'ILE	1.28	-0.05	1.23^9

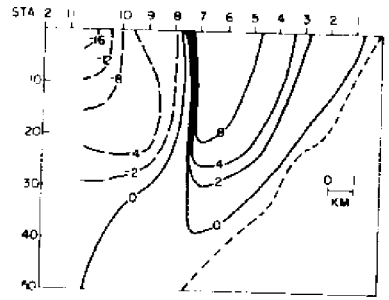
CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY

DATE: 9/27

OLCOTT

no data

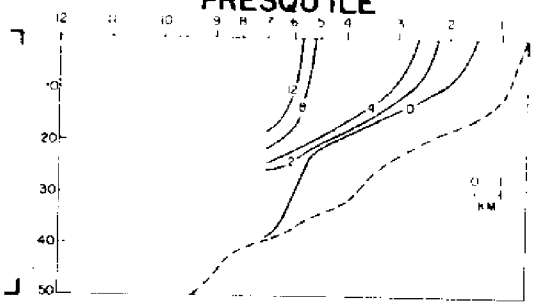
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.91	-1.39	-0.48
PRESQU'ILE	0.88	-0.79	0.10^9

CROSS SECTIONS OF TEMPERATURE

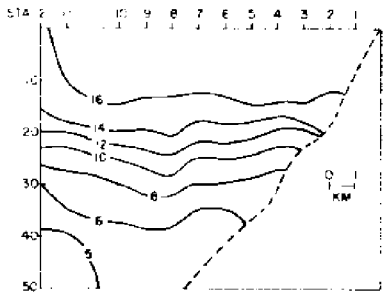
DATE: 9/27

DEPTH (M)

OLCOTT

no data

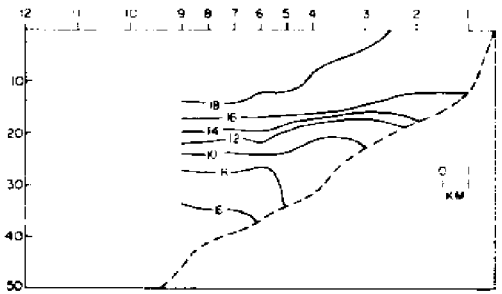
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.42	0.05	0.47
PRESQU'ILE	0.40	0.74	1.14

DATE: 9/27

HOURLY WIND SPEED AND STRESS

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	5.20	251	39	14		6.38	241	59	32		7.40	227	37	21	
1	5.38	262	44	6		5.96	264	63	7		6.73	258	38	20	
2	5.56	274	53	- 3		5.37	285	52	-16		4.77	271	39	12	
3	5.59	287	46	-13		4.37	297	27	-12		4.78	267	26	9	
4	4.69	271	33	0		3.44	295	20	- 9		3.51	322	14	-15	
5	3.63	303	19	-11		4.68	310	26	-21		4.95	356	13	-15	
6	3.97	315	16	-16		5.74	327	29	-43		3.97	354	-42	-64	
7	4.56	318	21	-23		4.85	316	25	-25		5.13	336	-54	-23	
8	4.75	328	18	-29		6.80	335	33	-68		7.23	343	40	-27	
9	6.09	323	34	-44		7.83	338	34	-88		9.69	347	-23	-120	
10	6.78	349	13	-72		6.89	329	41	-68		8.11	352	69	-14	
11	6.72	360	0	-69		6.91	325	44	-60		7.58	348	3	-41	
12	5.58	344	13	-44		5.23	323	27	-35		7.03	347	28	-26	
13	5.31	329	23	-38		5.39	353	6	-46		8.10	001	1	-34	
14	5.63	344	14	-47		5.54	332	24	-44		7.25	360	-26	-32	
15	5.04	359	0	-38		5.54	343	14	-44		6.70	358	-15	-30	
16	4.56	005	- 2	-30		4.86	339	14	-35		6.25	001	4	-27	
17	4.67	356	3	-33		3.72	349	6	-23		5.56	355	0	-31	
18	4.17	016	- 6	-24		2.62	360	1	-14		4.42	349	1	-21	
19	3.72	022	- 8	-20		3.09	359	0	-15		2.19	324	5	- 7	
20	2.97	027	- 5	-11		2.28	334	4	- 7		3.53	358	2	-20	
21	4.66	036	-21	-28		2.81	352	2	-11		2.19	323	3	-11	
22	5.86	047	-39	-36		2.70	327	6	- 8		1.70	281	3	- 5	
23	5.69	053	-39	-31		1.96	319	4	- 4		2.21	259	4	-14	
AVER			11.2	-26.7	28.9			23	-28	37			7	-22	23

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 9/28

OLCOTT

DEPTH (M)

no data

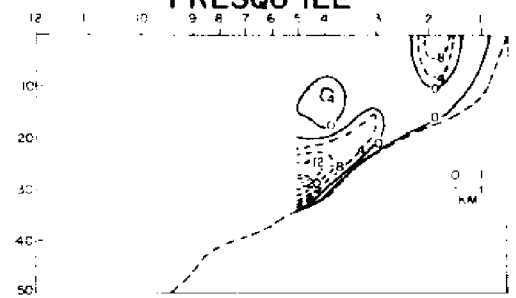
OSHAWA

no data

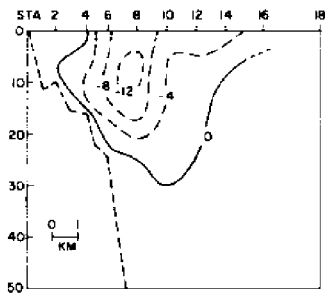
ROCHESTER

no data

PRESQU'ILE



OSWEGO



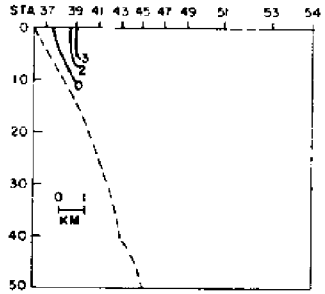
DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.03	-0.68	-0.65^7
ROCHESTER	---	---	---
OLCOTT	0.02	-0.04	-0.02^2
OSHAWA	---	---	---
PRESQU'ILE	0.09	-0.42	-0.33^5

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 9/28

OLCOTT



DEPTH (M)

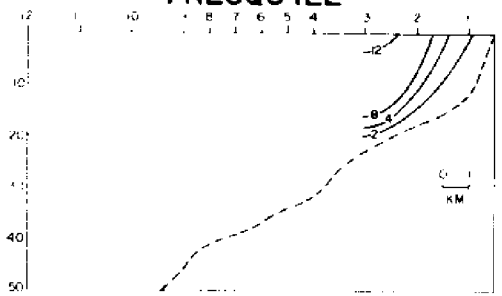
OSHAWA

no data

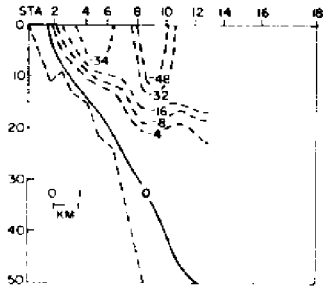
ROCHESTER

no data

PRESQU'ILE



OSWEGO



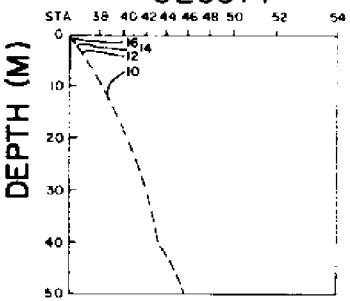
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.0	-2.77	-2.77
ROCHESTER	---	---	---
OLCOTT	0.04	0.0	0.04^2
OSHAWA	---	---	---
PRESQU'ILE	1.77	-0.01	1.76^5

CROSS SECTIONS OF TEMPERATURE

DATE: 9/28

OLCOTT



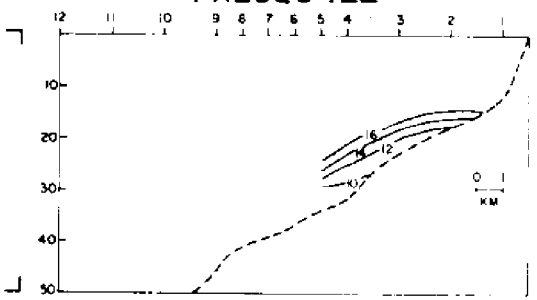
OSHAWA

no data

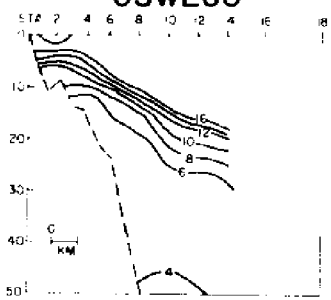
ROCHESTER

no data

PRESQU'ILE



OSWEGO



DAILY LONGSHORE TRANSPORT DIFFERENCE $(u-u_g)$

$(10^4\ M^3/SEC)$

LINE	POS	NEG	TOT
OSWEGO	0.03	2.09	2.12^7
ROCHESTER	---	---	---
OLCOTT	-0.02	-0.04	-0.06^2
OSHAWA	---	---	---
PRESQU'ILE	-1.68	-0.41	-2.09^5

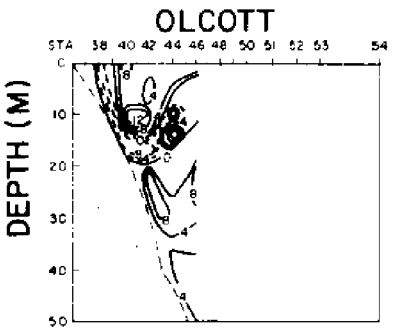
HOURLY WIND SPEED AND STRESS

DATE: 9/28

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	7.72	065	-84	-37		1.56	348	1	- 3		1.46	193	-23	-39	
1	8.35	070	-107	-38		4.89	078	-50	- 7		2.25	150	-21	-52	
2	9.18	057	-108	-70		9.90	076	-152	-37		2.00	119	-20	-33	
3	9.21	057	-109	-71		8.18	073	-118	-35		9.56	092	-15	0	
4	8.95	066	-115	-51		8.85	091	-130	2		10.63	082	-142	- 9	
5	9.14	089	-131	- 2		9.30	096	-136	15		10.27	090	-153	-18	
6	8.64	070	-114	-41		8.40	091	-120	4		9.57	086	-151	48	
7	8.36	075	-108	-26		9.08	088	-128	- 4		10.14	087	-121	44	
8	7.76	065	-84	-38		9.07	089	-130	- 1		9.31	082	-101	- 3	
9	7.81	082	-93	-12		8.17	099	-107	16		9.20	077	-34	43	
10	6.84	074	-75	-21		8.25	084	-106	-11		9.27	078	-37	63	
11	6.77	092	-74	3		7.36	094	-90	7		8.70	096	-69	50	
12	6.14	090	-58	0		7.37	095	-81	8		8.55	090	-43	39	
13	5.71	096	-49	6		5.95	121	-47	28		6.90	110	-83	39	
14	5.05	082	-39	- 4		5.17	114	-38	17		7.22	138	-74	33	
15	4.23	094	-27	2		4.73	114	-32	14		7.13	116	-75	61	
16	3.65	101	-19	4		6.48	105	-62	17		7.56	123	-97	28	
17	3.98	113	-22	10		7.49	104	-82	20		8.73	130	-113	0	
18	4.26	141	-17	22		7.89	127	-76	59		7.32	109	-124	-69	
19	4.17	120	-23	14		6.67	128	-55	43		8.88	100	-138	-21	
20	4.24	096	-30	2		6.62	102	-67	16		8.48	096	-107	-11	
21	5.27	086	-42	- 2		7.10	139	-51	59		8.16	111	-108	-20	
22	4.87	101	-35	6		7.38	115	-77	35		8.31	115	-102	-34	
23	6.31	138	-39	44		8.15	105	-100	25		7.90	100	-96	8	
AVER			-66.8	-12.5	67.9			-86	12	87			-86	6	87

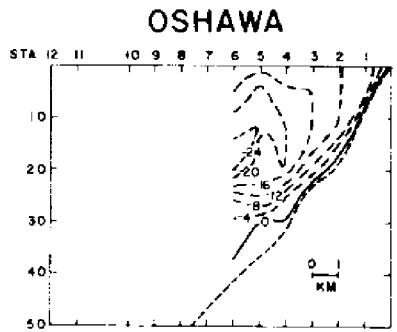
CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY

DATE: 9/29



ROCHESTER

no data



PRESQU'ILE

no data

OSWEGO

no data

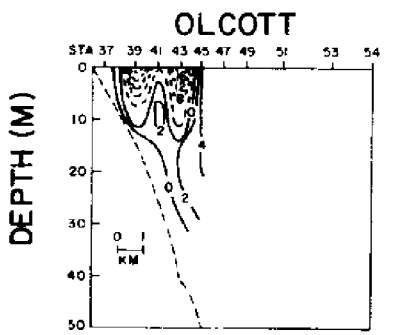
DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	0.55	-0.18	0.37^5
OSHAWA	-2.03	0.0	-2.03^6
PRESQU'ILE	---	---	---

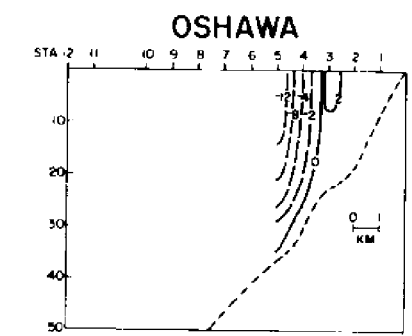
CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY

DATE: 9/29



ROCHESTER

no data



PRESQU'ILE

no data

OSWEGO

no data

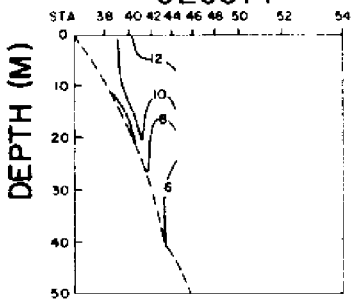
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	0.12	-0.24	-0.12^5
OSHAWA	0.06	-1.35	-1.28^6
PRESQU'ILE	---	---	---

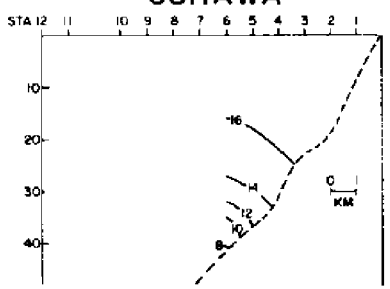
CROSS SECTIONS OF TEMPERATURE

DATE: 9/29

OLCOTT



OSHAWA



ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	0.43	0.16	0.49^5
OSHAWA	-2.09	1.35	-0.75^6
PRESQU'ILE	---	---	---

HOURLY WIND SPEED AND STRESS

DATE: 9/29

BUOY 10 (ROCHESTER & PRESQU'ILE)

BUOY 5 (OLCOTT & OSHAWA)

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	7.43	152	-38	76		8.40	145	-65	90		7.17	118	-72	16	
1	9.25	154	-55	118		8.41	187	12	108		6.59	117	-29	22	
2	9.83	179	- 1	148		8.97	162	-37	117		6.47	153	- 8	25	
3	10.29	191	30	157		8.44	189	17	107		4.85	152	- 4	9	
4	9.77	177	- 8	147		7.16	180	2	84		5.06	164	- 4	15	
5	10.75	168	-34	168		8.58	171	-17	111		4.48	163	- 2	6	
6	10.36	182	6	162		8.72	186	10	115		4.10	149	5	8	
7	10.63	174	-16	170		7.50	203	34	78		4.07	153	2	8	
8	11.09	172	-26	189		7.66	179	0	92		4.42	158	1	22	
9	11.68	184	15	204		7.06	186	9	82		4.34	152	8	35	
10	12.42	175	-20	230		8.37	196	29	103		4.84	180	- 8	35	
11	12.68	185	19	242		9.63	205	62	131		5.95	179	42	34	
12	12.90	194	61	245		9.58	181	4	145		5.75	161	31	62	
13	12.27	233	187	140		9.35	210	66	118		6.74	179	31	56	
14	11.82	239	190	114		9.66	187	17	143		6.96	173	86	69	
15	11.13	194	48	192		9.61	185	13	139		6.37	186	70	73	
16	11.27	191	36	196		8.79	193	26	116		4.22	186	70	88	
17	10.31	207	74	142		5.89	189	9	56		4.82	229	61	37	
18	9.25	207	60	118		6.22	213	34	53		6.92	239	56	28	
19	8.91	210	62	106		3.60	220	15	25		6.32	219	32	28	
20	9.04	207	56	109		4.86	248	36	13		6.40	229	26	26	
21	7.88	208	44	82		4.25	219	18	22		4.76	221	19	21	
22	9.22	213	70	110		3.66	234	18	14		5.33	199	14	22	
23	8.43	216	69	95		5.34	243	42	20		5.81	215	24	26	
AVER			34.5	152.5	156.4			15	87	88			19	32	37

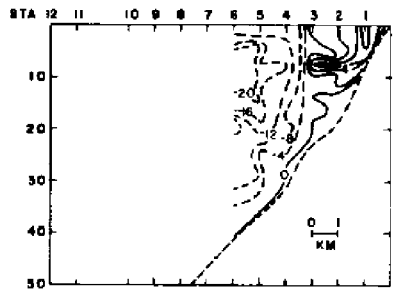
CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 9/30

OLCOTT

DEPTH (M)

no data

OSHAWA



ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

DAILY LONGSHORE VELOCITY TRANSPORT (v)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.08	-1.22	-1.14^6
PRESQU'ILE	---	---	---

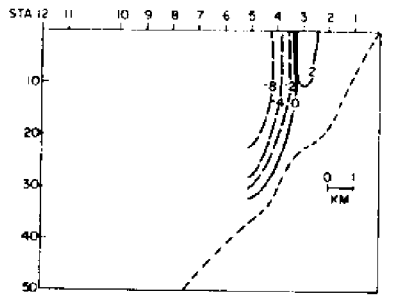
CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 9/30

OLCOTT

DEPTH (M)

no data

OSHAWA



ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.08	-0.70	-0.62^6
PRESQU'ILE	---	---	---

CROSS SECTIONS OF TEMPERATURE

DATE: 9/30

DEPTH (M)

OLCOTT

no data

OSHAWA

ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.0	-0.52	-0.52[6]
PRESQU'ILE	---	---	---

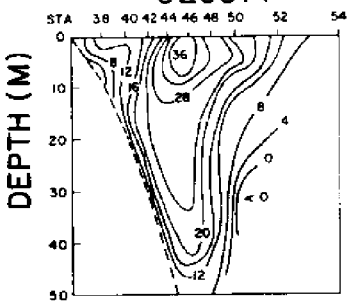
DATE: 9/30

HOURLY WIND SPEED AND STRESS

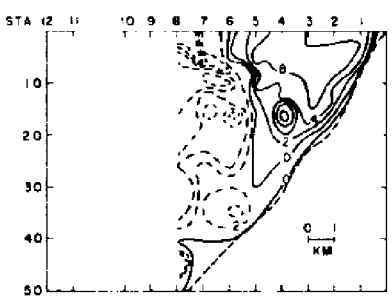
TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	8.21	221	67	77		6.40	213	35	54		5.45	221	25	22	
1	6.88	235	64	42		5.20	222	32	33		3.43	340	26	-27	
2	6.87	218	44	56		5.55	232	39	30		6.57	349	19	-37	
3	6.11	208	28	52		3.86	267	38	3		7.95	324	40	-67	
4	6.06	211	29	49		5.87	356	5	-54		7.09	327	40	-94	
5	5.94	223	38	40		6.54	358	3	-64		6.09	344	-32	-59	
6	3.88	256	28	8		5.15	354	4	-42		4.40	360	11	-43	
7	3.21	204	0	-15		5.14	012	- 7	-38		4.32	001	0	-32	
8	3.58	033	-10	-16		4.71	018	- 9	-31		4.64	356	82	-81	
9	4.24	057	-22	-14		4.28	025	-13	-27		9.39	323	95	-135	
10	2.26	134	- 8	9		9.97	323	92	-131		10.04	343	57	-192	
11	5.10	288	74	-53		12.58	353	31	-261		11.59	327	65	-262	
12	13.63	329	168	-274		11.54	008	-34	-241		10.45	349	-19	-136	
13	12.90	348	53	-259		9.02	345	36	-130		9.73	328	129	-72	
14	10.45	343	54	-167		10.96	315	138	-133		9.45	338	160	-70	
15	8.11	333	47	-89		11.52	317	143	-149		10.44	301	91	-117	
16	8.72	325	68	-95		12.54	325	139	-196		9.20	321	85	-86	
17	10.76	324	106	-144		11.56	311	167	-147		9.61	302	101	-52	
18	11.27	315	139	-138		10.10	310	123	-102		9.23	312	87	0	
19	9.31	332	66	-121		10.22	341	53	-154		9.36	333	108	-12	
20	9.25	324	79	-104		8.79	340	44	-114		9.60	316	41	-71	
21	9.52	333	66	-125		9.01	336	50	-116		8.58	316	98	-70	
22	7.66	343	27	-90		9.70	318	97	-107		8.78	340	20	-72	
23	7.25	358	3	-93		8.53	001	0	-111		8.26	337	54	-117	96
AVER			50.3	-61.0	79.1			50	-94	106			58	-77	

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 10/1

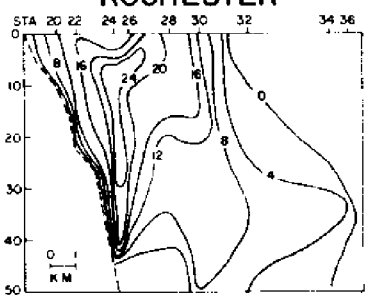
OLCOTT



OSHAWA



ROCHESTER



PRESQU'ILE

no data

OSWEGO

no data

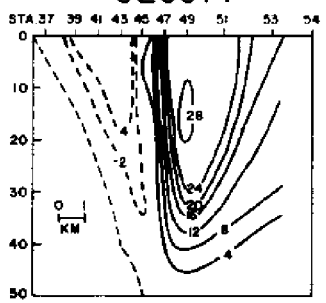
DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

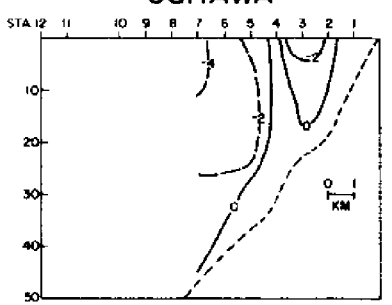
LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCH. - 1	3.85	-1.07	2.78^8
2	5.24	0.0	5.23^8
OLCOTT	4.35	-0.63	3.72^7
OSHAWA	0.48	-0.62	-0.14^8
PRESQU'ILE	---	---	---

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 10/1

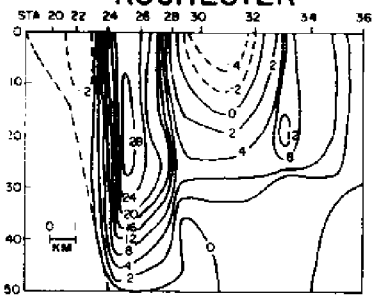
OLCOTT



OSHAWA



ROCHESTER



PRESQU'ILE

no data

OSWEGO

no data

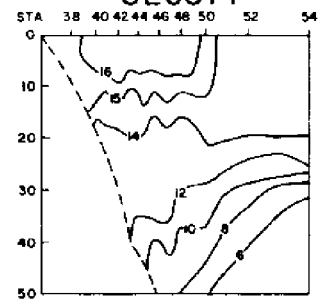
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCH. - 1	3.04	-0.09	2.95^8
2	3.08	-0.03	3.04^8
OLCOTT	2.20	-0.21	1.99^7
OSHAWA	0.21	-0.51	-0.29^8
PRESQU'ILE	---	---	---

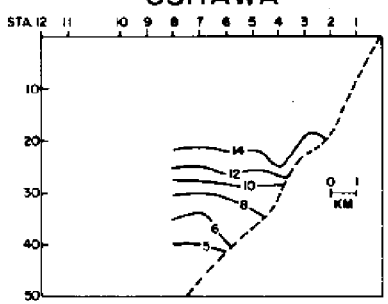
CROSS SECTIONS OF TEMPERATURE

DATE: 10/1

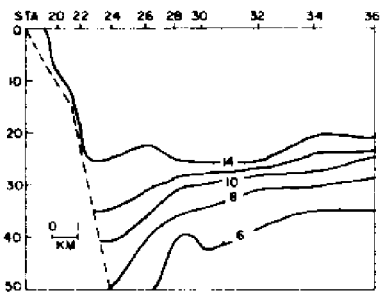
OLCOTT



OSHAWA



ROCHESTER



PRESQU'ILE

no data

OSWEGO

no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_x$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCH. - 1	0.81	-0.98	-0.17^8
2	2.16	0.03	2.19^8
OLCOTT	2.15	-0.42	1.73^7
OSHAWA	0.27	-0.11	0.16^8
PRESQU'ILE	---	---	---

HOURLY WIND SPEED AND STRESS

DATE: 10/1

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	6.09	351	12	-61	
1	6.43	358	3	-63	
2	6.31	016	-16	-60	
3	5.74	019	-17	-48	
4	4.88	015	- 9	-35	
5	4.66	008	- 3	-33	
6	3.66	013	- 4	-20	
7	2.51	020	- 2	- 9	
8	1.33	032	- 1	- 2	
9	0.90	054	0	0	
10	1.58	172	0	5	
11	5.98	203	21	51	
12	6.39	205	28	60	
13	7.40	195	22	82	
14	7.54	206	38	80	
15	7.11	198	26	79	
16	6.16	233	50	37	
17	5.10	234	35	26	
18	5.22	247	39	16	
19	4.05	224	18	18	
20	3.12	227	11	11	
21	3.24	195	4	15	
22	3.12	203	6	14	
23	3.28	203	7	16	
AVER			11.2	7.5	13.4

BUOY 10 (ROCHESTER & PRESQU'ILE)

WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
7.42	013	-18	-85	
5.64	004	- 2	-52	
5.73	351	10	-53	
5.01	358	2	-42	
4.98	006	- 3	-40	
4.18	020	- 8	-26	
3.52	047	-15	-14	
2.29	042	- 5	- 6	
1.47	048	- 3	- 2	
0.37	073	0	0	
1.40	187	0	3	
1.31	234	3	2	
1.97	224	5	5	
3.81	232	16	15	
5.58	216	28	40	
5.10	209	21	41	
5.52	205	20	44	
4.61	221	22	25	
3.68	218	14	18	
3.12	222	11	12	
2.81	214	7	12	
2.90	140	- 8	11	
3.64	166	- 4	21	
5.08	184	3	42	
		4	- 2	4

BUOY 5 (OLCOTT & OSHAWA)

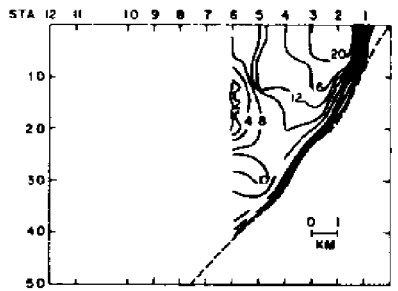
WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
7.46	348	26	-75	
7.29	356	88	-62	
6.91	009	39	-65	
5.66	004	- 1	-37	
3.84	009	16	-19	
2.73	350	8	- 6	
1.70	328	6	- 5	
0.71	297	6	0	
0.61	230	4	0	
1.50	185	10	22	
2.40	190	23	24	
4.06	207	32	34	
5.95	211	42	46	
6.51	220	55	58	
6.96	208	62	54	
6.49	204	58	36	
6.78	228	41	25	
5.68	216	36	4	
5.43	236	29	0	
4.41	257	10	10	
2.29	230	39	23	
0.90	149	32	36	
3.07	155	36	50	
3.39	217	57	22	
		31	7	32

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 10/2

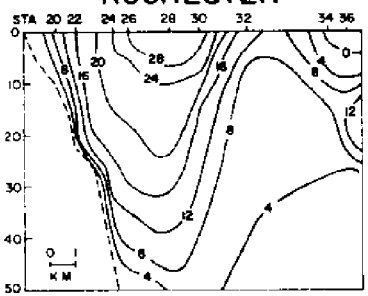
OLCOTT

no data

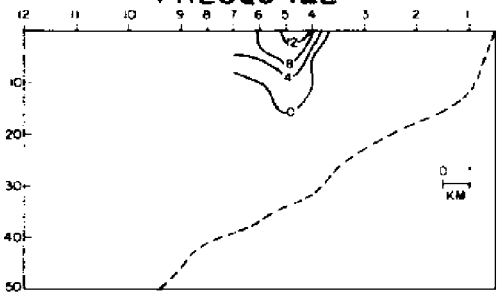
OSHAWA



ROCHESTER



PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

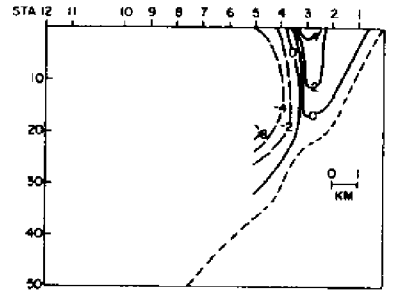
LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	5.40	-0.01	5.39^8
OLCOTT	---	---	---
OSHAWA	1.33	0.26	1.60^6
PRESQU'ILE	0.29	0.0	0.29^7

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 10/2

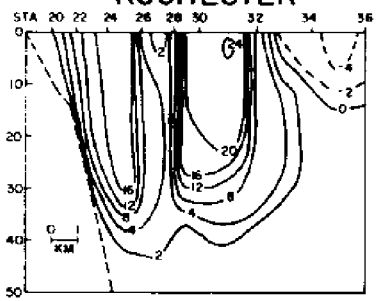
OLCOTT

no data

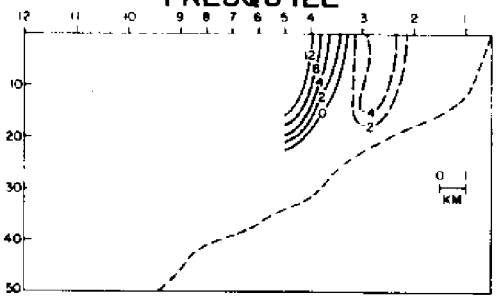
OSHAWA



ROCHESTER



PRESQU'ILE



OSWEGO

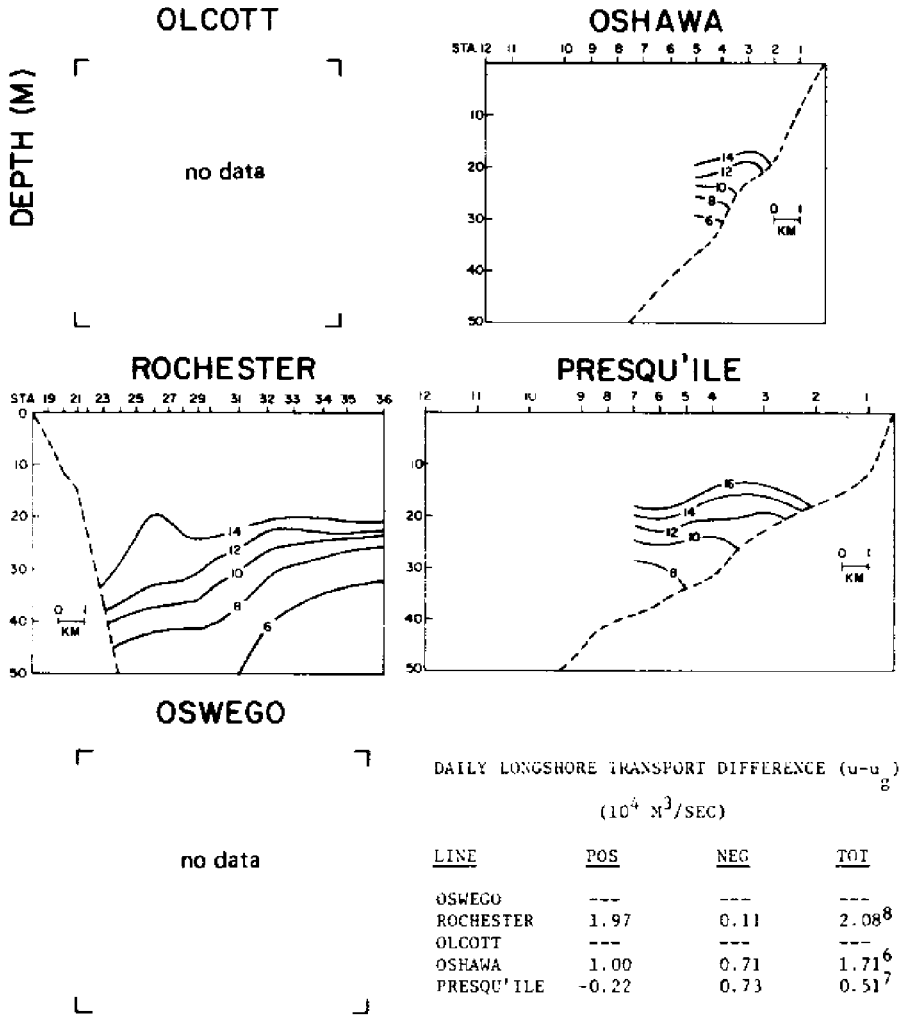
no data

DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_8) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	3.43	-0.12	3.31^8
OLCOTT	---	---	---
OSHAWA	0.33	-0.45	-0.11^6
PRESQU'ILE	0.51	-0.73	-0.21^7

CROSS SECTIONS OF TEMPERATURE

DATE: 10/2



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

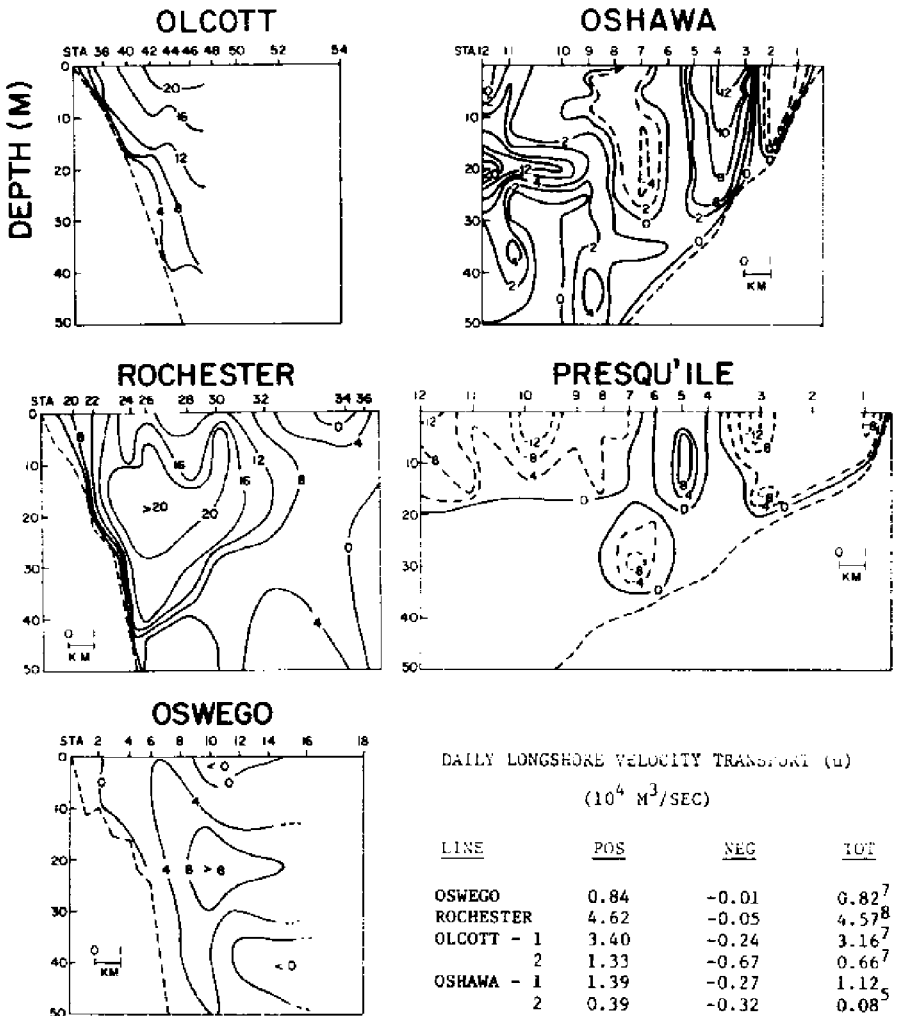
LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	1.97	0.11	2.08^8
OLCOTT	---	---	---
OSHAWA	1.00	0.71	1.71^6
PRESQU'ILE	-0.22	0.73	0.51^7

HOURLY WIND SPEED AND STRESS

DATE: 10/2

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	4.39	184	3	32		6.73	205	31	65		7.31	248	26	18	
1	6.60	187	9	66		6.74	230	54	46		6.21	229	15	17	
2	7.28	207	38	73		5.91	232	49	40		4.71	221	12	12	
3	7.25	221	57	64		7.87	216	57	76		4.21	269	9	9	
4	7.60	223	60	66		8.40	233	87	65		2.23	260	21	9	
5	7.64	249	84	34		7.38	233	68	53		2.74	211	4	21	
6	7.80	260	93	16		6.73	251	75	26		4.27	203	- 8	54	
7	9.26	256	126	32		5.45	258	51	11		6.28	179	33	67	
8	8.26	263	105	14		5.25	225	33	35		7.94	200	51	58	
9	5.61	252	46	16		6.69	200	23	67		7.43	207	46	50	
10	6.51	239	56	33		7.39	206	38	76		7.26	214	30	46	
11	6.39	205	27	58		7.04	196	22	75		6.68	204	33	30	
12	6.84	203	29	66		6.76	206	31	65		6.32	194	30	49	
13	8.40	193	24	105		7.18	209	40	73		6.05	211	39	64	
14	7.60	199	30	86		5.94	198	18	55		6.13	219	31	56	
15	7.01	204	31	68		4.59	205	14	35		6.55	227	57	26	
16	5.42	231	36	29		4.04	202	10	24		5.37	218	32	9	
17	4.88	226	26	26		3.54	211	10	16		3.90	226	21	- 1	
18	3.85	221	16	20		2.51	183	1	10		3.20	236	22	- 3	
19	2.89	228	10	8		2.17	163	- 1	7		3.36	267	22	- 2	
20	2.08	212	4	6		3.38	156	- 6	16		3.07	261	8	- 1	
21	2.88	201	5	12		4.00	155	-10	23		1.76	249	2	1	
22	2.79	171	- 1	12		3.68	167	- 4	20		1.97	139	- 6	3	
23	1.74	142	- 2	4		2.92	154	- 5	12		4.49	150	- 2	10	
AVER			38.0	39.4	54.8			28	41	50			22	25	33

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 10/3

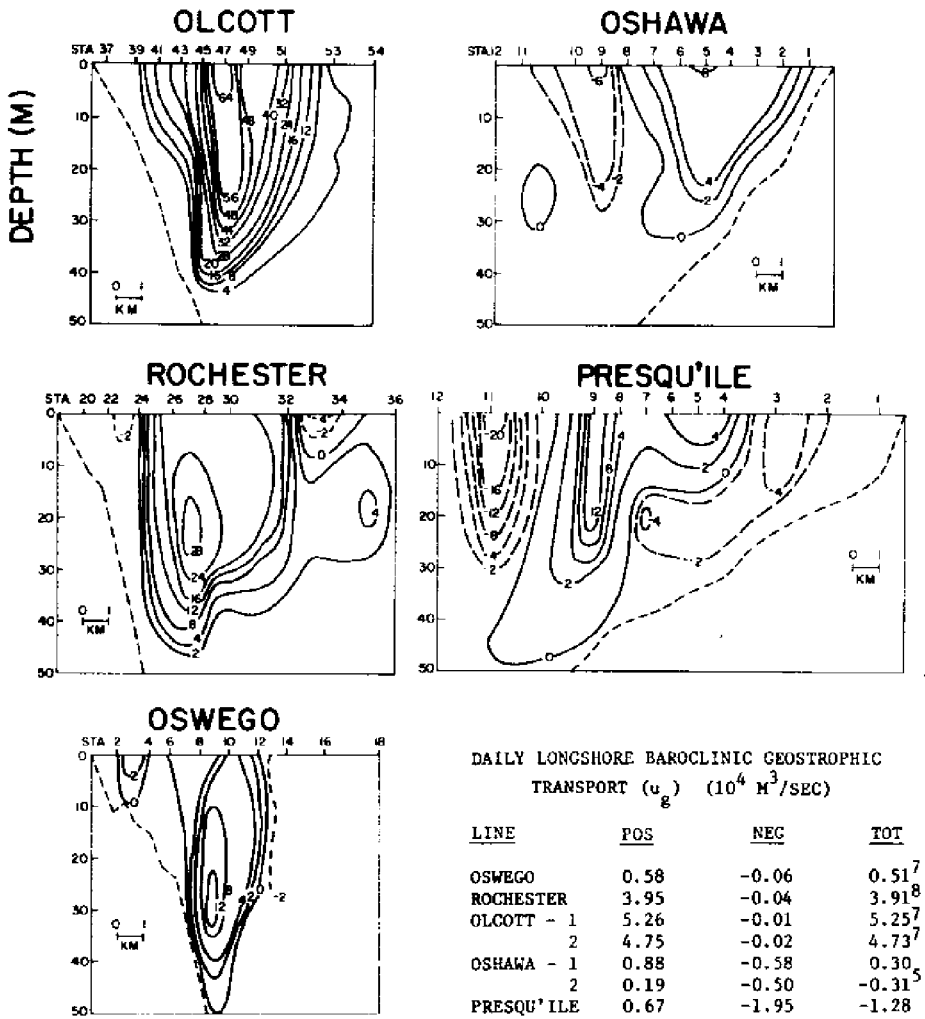


DAILY LONGSHORE VELOCITY TRANSPORT (v)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.84	-0.01	0.82^7
ROCHESTER	4.62	-0.05	4.57^8
OLCOTT - 1	3.40	-0.24	3.16^7
2	1.33	-0.67	0.66^7
OSHAWA - 1	1.39	-0.27	1.12_5
2	0.39	-0.32	0.08^5
PRESQU'ILE	0.21	-1.65	-1.43

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 10/3

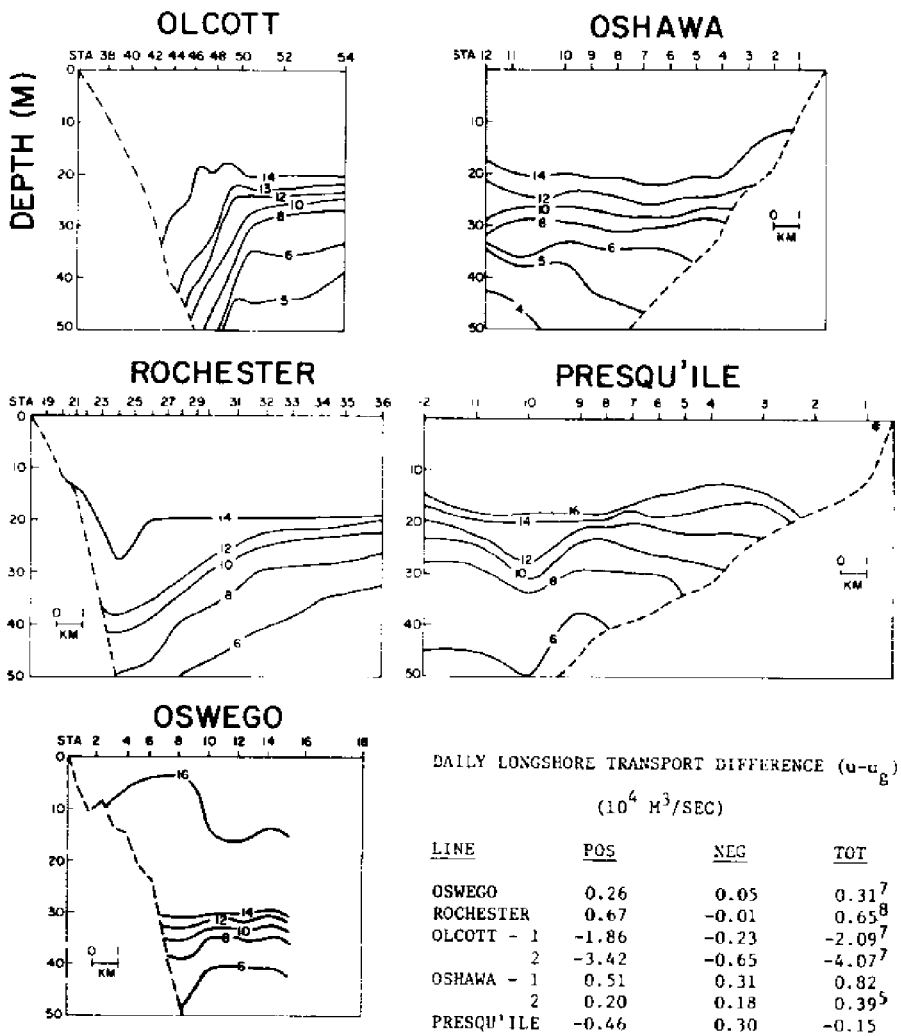


DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (v_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.58	-0.06	0.51^7
ROCHESTER	3.95	-0.04	3.91^8
OLCOTT - 1	5.26	-0.01	5.25^7
2	4.75	-0.02	4.73^7
OSHAWA - 1	0.88	-0.58	0.30^5
2	0.19	-0.50	-0.31^5
PRESQU'ILE	0.67	-1.95	-1.28

CROSS SECTIONS OF TEMPERATURE

DATE: 10/3



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.26	0.05	0.31^7
ROCHESTER	0.67	-0.01	0.65^8
OLCOTT - 1	-1.86	-0.23	-2.09^7
2	-3.42	-0.65	-4.07^7
OSHAWA - 1	0.51	0.31	0.82^5
2	0.20	0.18	0.39^5
PRESQU'ILE	-0.46	0.30	-0.15

HOURLY WIND SPEED AND STRESS

DATE: 10/3

BUOY 10 (ROCHESTER & PRESQU'ILE) BUOY 5 (OLCOTT & OSHAWA)

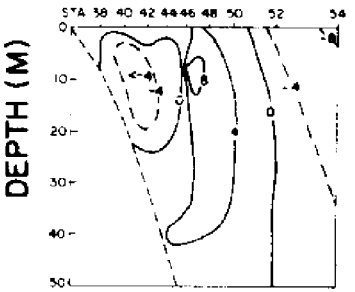
TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	3.53	156	- 6	18		4.85	157	2	12	
1	3.46	152	- 8	17		4.47	160	0	11	
2	4.35	158	-10	27		3.56	153	2	15	
3	4.67	164	- 9	32		3.04	174	18	17	
4	3.86	184	- 1	25		3.06	177	16	16	
5	2.52	196	3	10		3.06	217	22	15	
6	2.84	199	4	13		4.01	235	22	9	
7	3.65	221	14	16		2.54	230	18	11	
8	3.34	200	6	17		2.28	216	15	9	
9	3.76	228	17	15		2.77	257	13	10	
10	4.26	220	19	23		2.74	229	13	6	
11	4.17	215	15	22		3.52	228	13	13	
12	3.59	222	13	15		3.71	226	10	14	
13	3.74	243	20	11		2.93	239	3	8	
14	3.24	232	13	10		2.16	212	1	6	
15	2.68	238	9	6		1.72	192	0	3	
16	1.79	199	2	5		1.58	138	- 3	- 1	
17	2.35	166	- 1	8		1.27	082	-13	-12	
18	2.01	145	- 2	6		2.97	072	-28	-12	
19	2.16	126	- 5	4		4.20	080	-35	- 3	
20	3.88	106	-21	7		4.28	090	-36	4	
21	4.52	121	-25	16		3.84	092	-31	- 2	
22	4.14	109	-24	9		3.74	087	-31	3	
23	4.08	119	-21	12		4.13	103	-31	7	7
AVER			0	14	14			- 2	6	

BUOY 11 (OSWEGO)

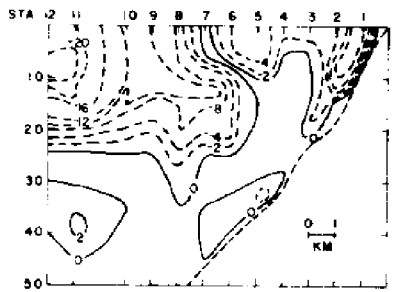
TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	2.70	128	- 8	7	
1	3.77	148	-10	18	
2	4.04	156	- 9	23	
3	4.33	167	- 6	28	
4	4.72	163	- 9	33	
5	4.82	187	5	35	
6	4.90	181	0	38	
7	4.69	195	8	32	
8	3.93	222	16	18	
9	3.21	219	10	12	
10	3.69	225	15	15	
11	3.18	215	9	13	
12	4.85	199	12	34	
13	5.32	194	11	42	
14	5.35	192	10	43	
15	5.11	209	20	35	
16	4.26	206	12	25	
17	3.60	207	9	18	
18	3.55	201	7	18	
19	1.60	197	1	4	
20	1.16	162	0	2	
21	1.78	104	- 4	1	
22	2.78	094	-11	1	
23	3.16	097	-14	2	
AVER			3.1	20.7	20.9

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 10/4

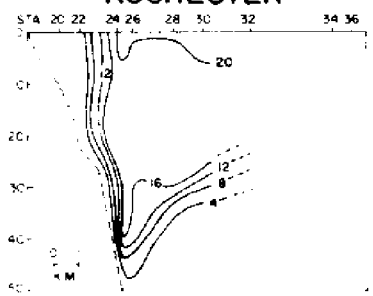
OLCOTT



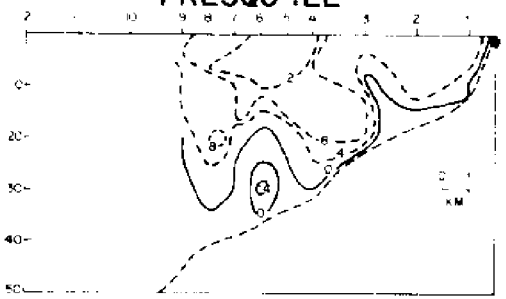
OSHAWA



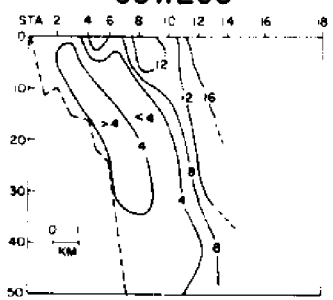
ROCHESTER



PRESQU'ILE



OSWEGO

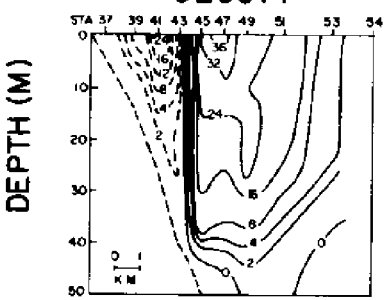


DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

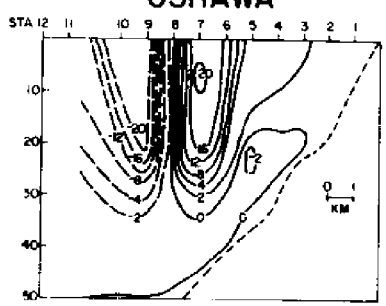
LINE	POS	NEG	TOT
OSWEGO	0.02	-0.31	-0.29^6
ROCHESTER	1.96	-0.03	1.93^4
OLCOTT - 1	3.95	-0.34	3.61^7
2	2.09	-0.55	1.54^7
OSHAWA	0.55	-1.79	-1.24
PRESQU. - 1	0.34	-1.78	-1.44^9
2	0.28	-0.29	-0.01^5

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 10/4

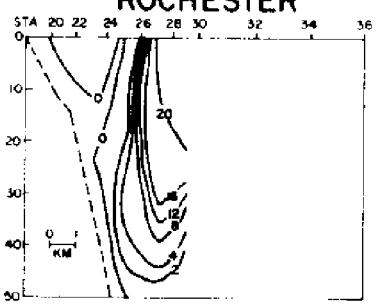
OLCOTT



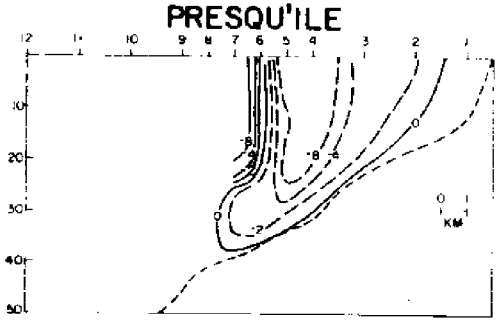
OSHAWA



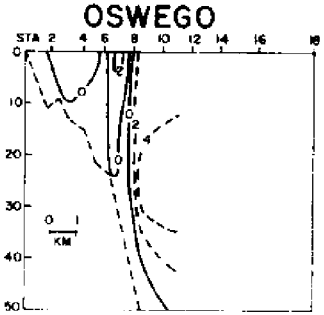
ROCHESTER



PRESQU'ILE



OSWEGO

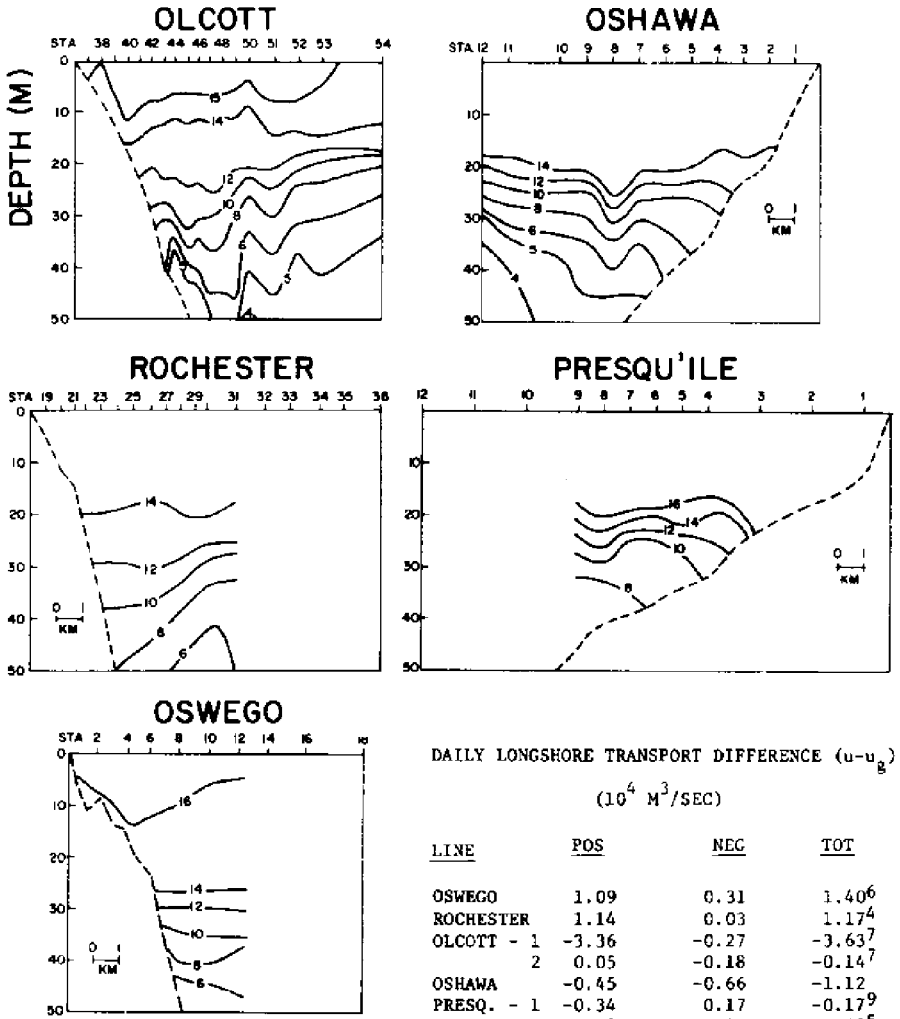


DAILY LONGSHORE VELOCITY TRANSPORT (u) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	1.11	0.0	1.11^6
ROCHESTER	3.10	0.0	3.10^4
OLCOTT - 1	0.59	-0.61	-0.02^7
2	2.14	-0.73	1.40^7
OSHAWA	0.10	-2.45	-2.35
PRESQU. - 1	0.0	-1.61	-1.61^9
2	0.0	-0.69	-0.69^5

CROSS SECTIONS OF TEMPERATURE

DATE: 10/4



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

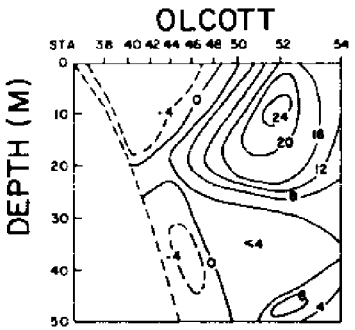
LINE	POS	NEG	TOT
OSWEGO	1.09	0.31	1.40^6
ROCHESTER	1.14	0.03	1.17^4
OLCOTT - 1	-3.36	-0.27	-3.63^7
2	0.05	-0.18	-0.14^7
OSHAWA	-0.45	-0.66	-1.12
PRESQ. - 1	-0.34	0.17	-0.17^9
2	-0.28	-0.40	-0.68^5

HOURLY WIND SPEED AND STRESS

DATE: 10/4

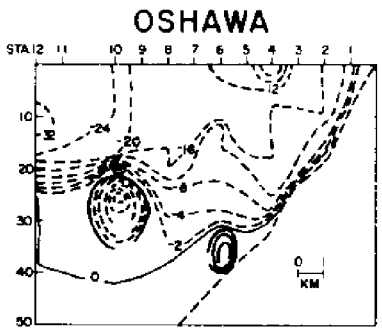
TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	2.63	103	- 9	2		4.67	113	-29	13		3.66	111	-35	10	
1	3.00	105	-12	3		4.44	127	-24	19		4.07	111	-24	23	
2	3.86	125	-17	13		4.96	106	-35	10		3.51	108	-24	19	
3	4.09	149	-12	22		5.12	126	-35	26		3.55	107	-22	22	
4	5.46	165	-11	46		5.74	182	3	53		3.94	134	-18	16	
5	6.47	183	3	64		5.37	185	4	46		4.37	164	- 3	29	
6	7.69	207	43	82		5.48	176	- 2	46		3.14	197	23	20	
7	6.00	213	29	46		5.95	202	20	50		3.05	193	14	17	
8	5.81	192	10	52		5.35	172	- 5	44		2.67	179	15	9	
9	6.22	199	19	55		4.74	190	- 6	34		1.28	130	9	9	
10	6.32	174	- 6	60		4.31	165	- 8	30		1.92	081	4	4	
11	7.01	202	29	71		4.63	177	- 1	36		3.27	096	- 3	2	
12	7.35	197	26	81		4.86	177	0	39		4.79	118	-21	6	
13	7.33	191	15	80		5.35	167	- 9	43		5.48	139	-48	18	
14	6.80	191	15	72		5.02	190	- 6	39		5.02	151	-14	31	
15	6.57	197	19	63		4.37	161	- 9	29		5.02	137	-13	9	
16	6.35	181	1	62		4.86	155	-15	33		3.77	122	-20	2	
17	5.25	169	- 7	44		---	---	-34	24		4.61	118	-20	- 1	
18	5.35	173	- 4	44		5.83	128	-33	27		4.26	120	-29	- 1	
19	5.34	147	-24	39		5.38	144	-28	40		5.10	099	-31	1	
20	5.34	124	-35	24		6.02	132	-40	37		5.37	085	-27	-17	
21	5.16	124	-33	22		5.77	130	-38	32		5.61	092	-37	- 7	
22	4.83	124	-28	19		5.89	127	-43	33		5.11	086	-24	5	
23	4.01	135	-16	18		6.16	155	-25	55		5.61	129	-20	5	
AVER			- 0.2	45.2	45.2			-16	36	40			-16	9	19

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 10/5



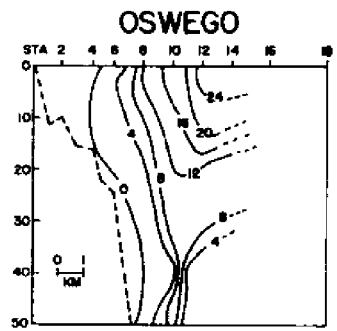
ROCHESTER

no data



PRESQU'ILE

no data

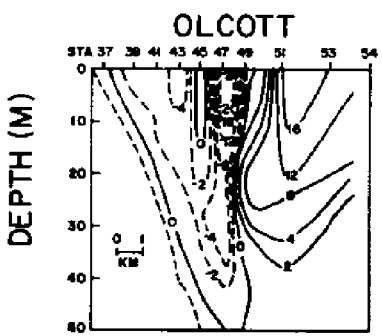


DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

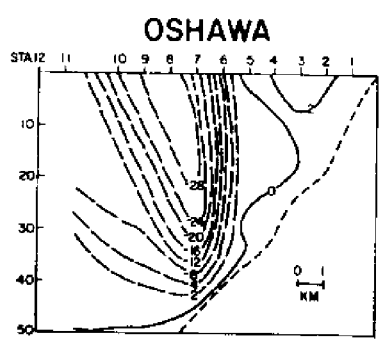
LINE	POS	NEG	TOT
OSWEGO	1.54	-0.06	1.48^6
ROCHESTER	---	---	---
OLCOTT	3.09	-0.57	2.52^7
OSHAWA - 1	0.0	-5.87	-5.87
2	0.05	-2.92	-2.87^6
PRESQU'ILE	---	---	---

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 10/5



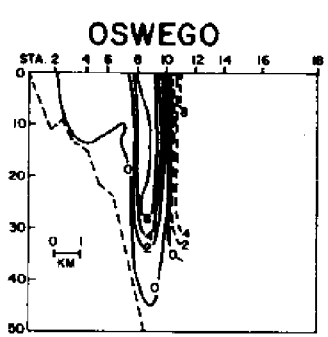
ROCHESTER

no data



PRESQU'ILE

no data

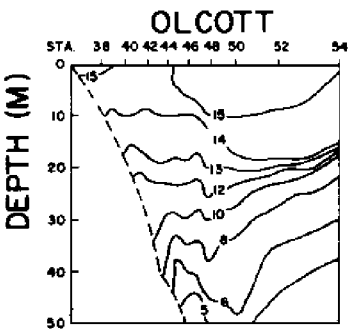


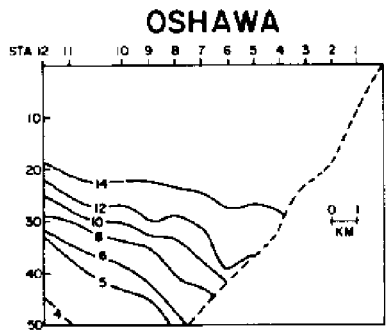
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	0.21	-0.13	0.09^6
ROCHESTER	---	---	---
OLCOTT	1.48	-0.51	0.97^7
OSHAWA - 1	0.20	-4.12	-3.92
2	0.0	-1.11	-1.11^6
PRESQU'ILE	---	---	---

CROSS SECTIONS OF TEMPERATURE

DATE: 10/5



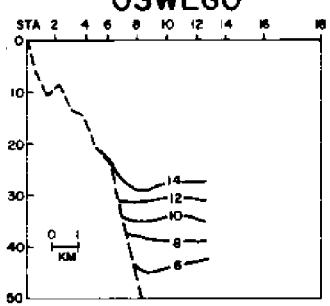


ROCHESTER

no data

PRESQU'ILE

no data



DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	1.33	0.07	1.39[6]
ROCHESTER	---	---	---
OLCOTT	1.61	-0.06	1.55[7]
OSHAWA - 1	-0.20	-1.75	-1.95
2	0.05	-1.81	-1.76[6]
PRESQU'ILE	---	---	---

DATE: 10/5

HOURLY WIND SPEED AND STRESS

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	3.98	139	-15	18		5.18	148	-20	36		5.87	157	-14	9	
1	4.70	163	- 8	32		4.36	162	- 8	30		5.97	147	-16	22	
2	5.10	167	- 8	39		5.42	163	-12	44		5.92	145	-15	32	
3	5.37	179	0	44		5.15	167	- 9	42		6.25	157	-22	10	
4	6.17	187	7	58		4.90	148	-19	32		5.19	118	-28	12	
5	7.04	189	10	76		5.47	156	-17	42		5.74	130	-34	23	
6	7.63	185	8	92		7.10	164	-20	72		6.34	139	-27	37	
7	7.90	202	36	88		6.61	155	-29	62		5.70	132	-35	22	
8	7.15	189	13	82		6.12	153	-28	56		5.95	159	-28	22	
9	7.59	188	12	87		7.38	160	-28	78		5.43	153	-14	24	
10	7.53	195	23	86		6.96	158	-28	71		5.62	152	-13	24	
11	8.10	176	- 6	101		6.24	144	-35	48		5.31	167	-15	26	
12	7.49	172	-12	87		4.99	172	- 4	39		5.39	152	-12	29	
13	7.86	172	-12	95		4.42	162	-10	30		4.91	150	-20	21	
14	6.89	182	2	75		4.95	158	-14	36		5.21	164	-17	13	
15	6.90	187	9	73		5.37	168	- 9	48		5.16	137	-25	17	
16	5.54	182	1	50		4.74	159	-13	35		5.25	142	-37	1	
17	5.14	184	3	42		5.34	144	-25	36		5.00	116	-33	2	
18	4.95	173	- 3	38		5.33	148	-23	40		5.20	133	-26	- 2	
19	3.37	156	- 7	17		3.97	109	-25	9		4.43	110	-36	- 5	
20	2.31	151	- 4	9		4.39	118	-26	14		5.10	092	-27	- 9	
21	3.42	210	9	15		4.31	099	-27	4		4.36	079	-23	-15	
22	3.84	213	12	19		4.70	097	-33	4		5.76	064	-40	-12	
23	3.43	238	16	10		4.05	110	-23	8		5.54	076	-50	-12	
AVER			3.6	55.5	55.7			-21	38	44			-26	12	29

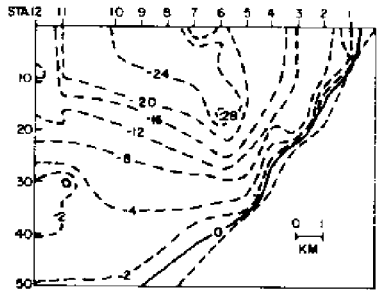
CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 10/6

OLCOTT

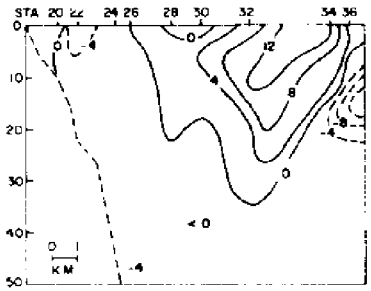
DEPTH (M)

no data

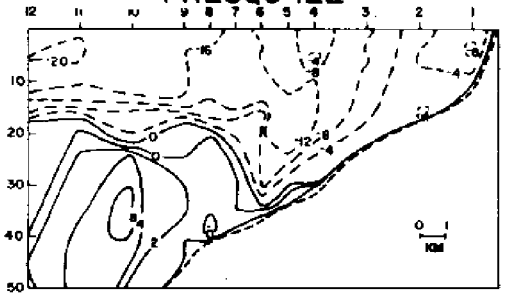
OSHAWA



ROCHESTER



PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	0.97	-0.35	0.62^8
OLCOTT	---	---	---
OSHAWA - 1	0.0	-5.89	-5.88^{10}
2	0.0	-2.13	-2.13^5
PRESQ. - 1	0.67	-3.77	-3.10
2	0.38	-2.40	-2.02^9

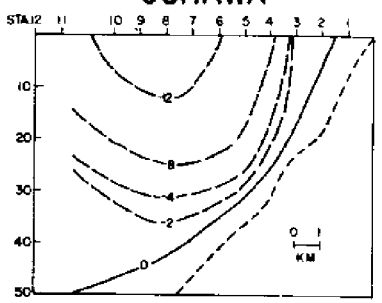
CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 10/6

OLCOTT

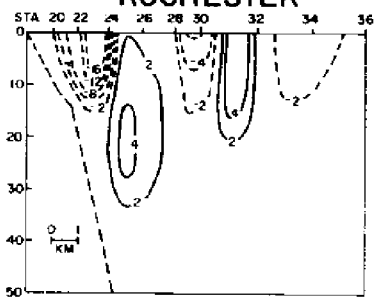
DEPTH (M)

no data

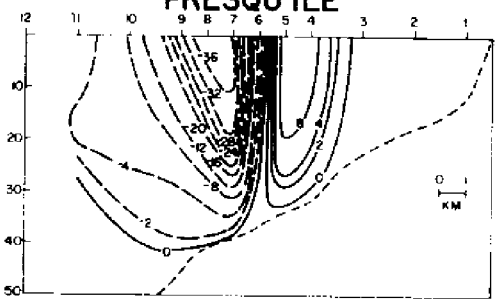
OSHAWA



ROCHESTER



PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	0.38	-0.45	-0.07^8
OLCOTT	---	---	---
OSHAWA - 1	0.02	-2.62	-2.60^{10}
2	0.0	-1.39	-1.39^5
PRESQU. - 1	0.35	-3.33	-2.98
2	0.01	-2.38	-2.37^9

CROSS SECTIONS OF TEMPERATURE

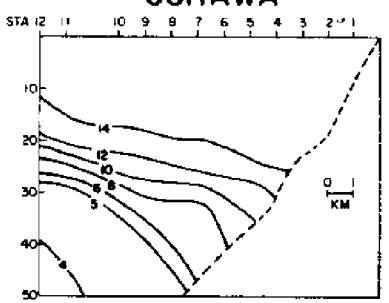
DATE: 10/6

OLCOTT

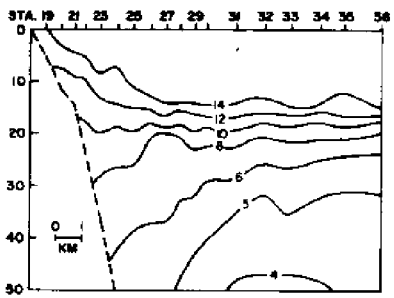
DEPTH (M)

no data

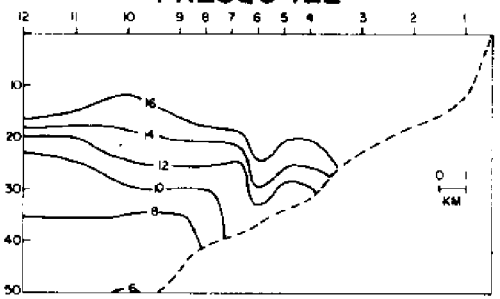
OSHAWA



ROCHESTER



PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	0.59	0.10	0.70^{8}
OLCOTT	---	---	---
OSHAWA - 1	-0.02	-3.27	-3.28^{10}
2	0.0	-0.74	-0.73^{5}
PRESQ. - 1	0.32	-0.44	-0.12
2	0.37	-0.02	0.35^{9}

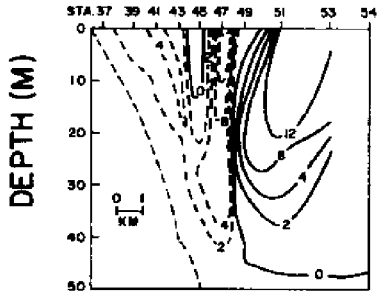
DATE: 10/6

HOURLY WIND SPEED AND STRESS

TIME GMT	BUOY 11 (OSWEGO) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 10 (ROCHESTER & PRESQU'ILE) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	BUOY 5 (OLCOTT & OSHAWA) WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	0.49	181	0	1		4.93	167	- 7	37		4.87	081	-36	- 8	
1	1.90	156	- 1	5		4.27	182	- 1	29		4.91	076	-28	- 4	
2	2.54	156	- 3	9		3.10	156	- 5	14		4.68	150	-18	- 1	
3	3.22	166	- 3	15		3.03	159	- 4	13		3.68	159	- 4	19	
4	4.26	158	- 9	25		3.95	146	-12	20		4.43	151	- 7	15	
5	4.71	176	- 1	34		4.10	163	- 7	25		4.29	153	- 4	18	
6	4.93	185	- 3	39		4.68	161	-12	33		3.85	143	- 4	23	
7	6.72	177	- 3	67		5.35	170	- 6	47		3.09	142	- 3	11	
8	7.06	183	- 4	78		5.70	172	- 6	52		3.57	137	- 7	16	
9	6.97	175	- 6	74		7.01	162	-22	76		4.40	139	-12	10	
10	5.97	186	- 5	59		6.99	143	-47	62		4.17	148	-12	10	
11	5.97	161	-17	54		5.99	172	- 7	59		4.92	143	-16	18	
12	6.46	161	-21	63		4.72	142	-21	29		2.96	146	- 8	3	
13	6.24	182	- 3	61		4.42	143	-19	25		1.89	098	- 3	0	
14	4.47	162	- 8	29		3.06	176	0	16		3.17	095	-10	- 4	
15	4.71	157	-13	32		3.29	139	-10	12		3.63	104	-11	- 5	
16	4.69	168	- 6	34		3.90	125	-18	13		3.55	124	-10	5	
17	4.28	152	-12	25		3.09	109	-13	5		2.56	117	- 8	4	
18	2.90	184	0	14		2.10	057	- 6	- 3		2.65	100	- 8	1	
19	4.08	211	16	27		3.03	069	-12	- 4		2.50	101	- 5	4	
20	6.44	204	25	58		2.41	043	- 5	- 6		3.78	114	-15	13	
21	6.67	227	52	46		3.16	081	-14	- 1		2.91	140	-11	11	
22	3.13	306	19	- 8		3.58	068	-19	0		2.08	141	- 9	16	
23	1.59	039	- 2	- 3		2.62	068	-10	0		0.57	237	0	6	
AVER			0.9	34.9	34.9			-13	23	26			-11	7	13

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 10/8

OLCOTT



OSHAWA

no data

ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

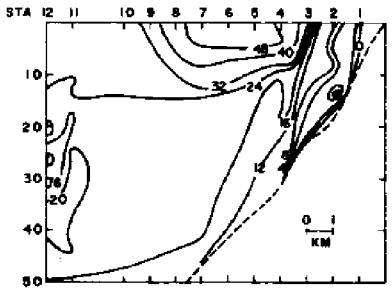
CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 10/10

OLCOTT

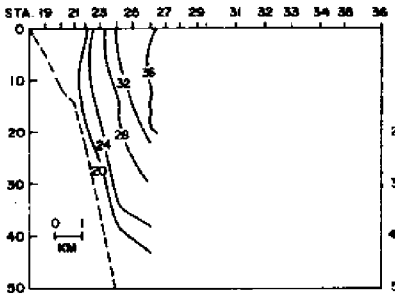
DEPTH (M)

no data

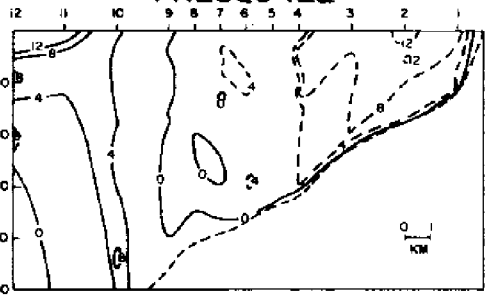
OSHAWA



ROCHESTER



PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	3.71	0.0	3.71^3
OLCOTT	---	---	---
OSHAWA	5.39	0.0	5.39^7
PRESQU'ILE	0.83	-1.28	-0.46

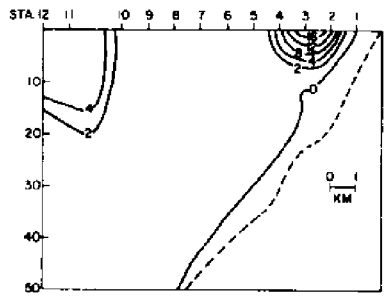
CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 10/10

OLCOTT

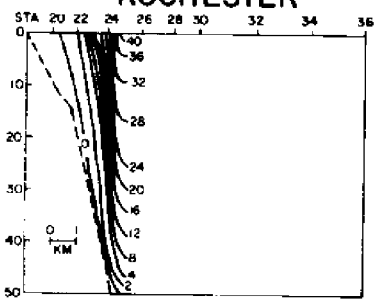
DEPTH (M)

no data

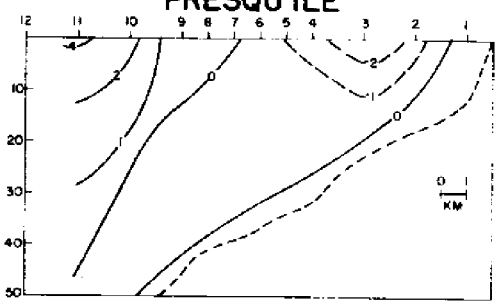
OSHAWA



ROCHESTER



PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	1.44	0.0	1.44^3
OLCOTT	---	---	---
OSHAWA	0.86	-0.01	0.85^7
PRESQU'ILE	0.32	-0.14	0.18

CROSS SECTIONS OF TEMPERATURE

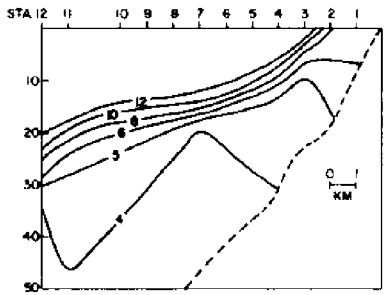
DATE: 10/10

OLCOTT

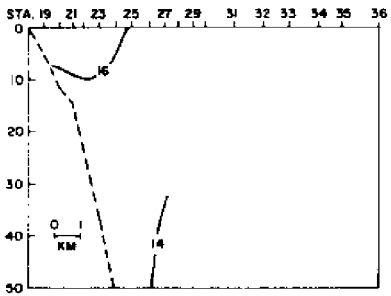
DEPTH (M)

no data

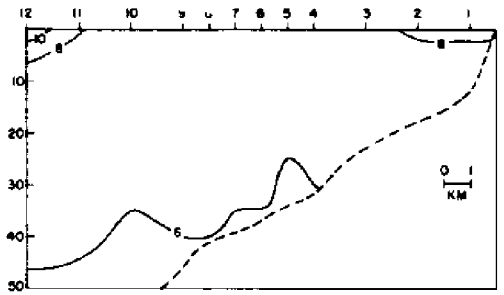
OSHAWA



ROCHESTER



PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	2.27	0.0	2.27[3]
OLCOTT	---	---	---
OSHAWA	4.53	0.01	4.54[7]
PRESQU'ILE	0.51	-1.14	-0.64

HOURLY WIND SPEED AND STRESS

DATE: 10/10

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	6.11	341	19	-56	
1	5.84	336	24	-51	
2	5.56	341	16	-45	
3	6.82	324	46	-60	
4	7.58	352	13	-88	
5	6.08	332	31	-54	
6	7.51	332	43	-78	
7	7.40	015	-22	-85	
8	7.40	355	8	-87	
9	6.52	005	- 5	-75	
10	6.56	019	-22	-65	
11	6.30	031	-32	-54	
12	4.49	019	-10	-30	
13	3.74	355	3	-23	
14	3.80	009	- 3	-23	
15	2.22	355	1	- 8	
16	1.11	003	0	- 2	
17	0.86	273	2	0	
18	1.42	188	0	3	
19	1.50	230	3	2	
20	1.61	252	4	1	
21	1.24	232	2	2	
22	0.87	139	0	1	
23	0.56	147	0	1	
AVER			5.0	-36.4	36.8

BUOY 10 (ROCHESTER & PRESQU'ILE)

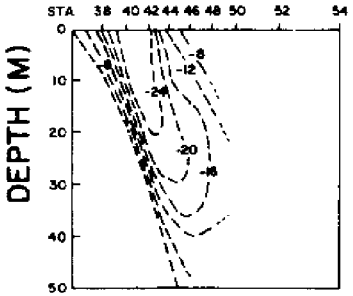
WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
9.97	344	41	-149	
10.22	342	55	-170	
10.64	349	33	-173	
8.30	349	28	-125	
8.06	355	11	-103	
7.74	026	-47	-93	
7.22	019	-26	-83	
5.55	020	-17	-54	
5.17	041	-29	-32	
3.96	003	0	-31	
4.08	038	-16	-21	
3.49	028	- 8	-17	
3.66	049	-15	-13	
3.79	039	-14	-17	
2.88	069	-12	- 4	
2.06	048	- 5	- 4	
1.70	076	- 5	0	
2.20	105	- 7	2	
1.27	161	0	3	
0.85	117	0	1	
2.22	121	+ 6	4	
3.14	103	-14	4	
3.62	103	-19	4	
4.54	080	-33	0	
		- 5	-45	46

BUOY 5 (OLCOTT & OSHAWA)

WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
8.72	343	132	-51	
9.54	333	131	-97	
8.44	341	95	-64	
6.42	351	83	-51	
5.26	005	72	-34	
5.62	042	- 8	-47	
4.77	030	-34	-26	
5.16	045	-37	-11	
4.27	054	-33	- 7	
3.09	072	-29	+ 7	
2.97	063	-21	- 7	
2.30	066	-33	3	
2.35	099	-18	6	
3.00	080	-25	- 3	
2.67	104	-15	11	
3.07	123	- 3	27	
3.62	136	-23	13	
3.99	147	-16	11	
3.27	141	-15	3	
2.97	119	-34	0	
4.01	090	-52	4	
4.59	098	-64	- 7	
5.64	106	-82	20	
6.22	115	-75	46	13
		- 5	12	

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 10/11

OLCOTT



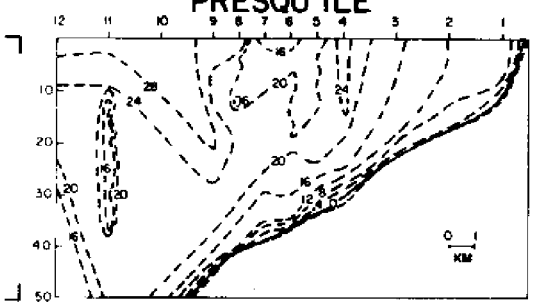
OSHAWA

no data

ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

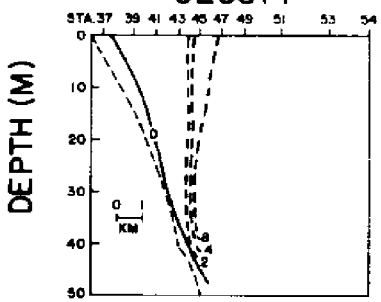
DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	0.04	0.0	0.04^2
OLCOTT	0.0	-1.77	-1.77
OSHAWA	---	---	---
PRESQU'ILE	0.0	-11.13	-11.13^{11}

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 10/11

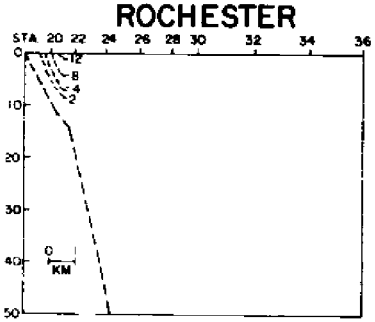
OLCOTT



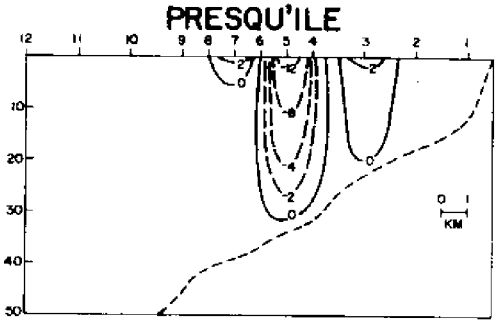
OSHAWA

no data

ROCHESTER



PRESQU'ILE



OSWEGO

no data

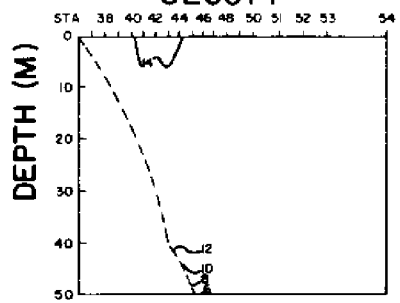
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	-0.12	0.0	-0.12^2
OSHAWA	0.0	-0.32	-0.32^4
PRESQU'ILE	0.19	-0.75	-0.56^{11}

CROSS SECTIONS OF TEMPERATURE

DATE: 10/11

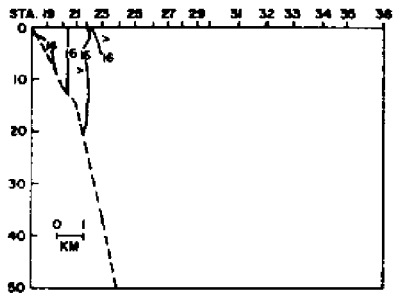
OLCOTT



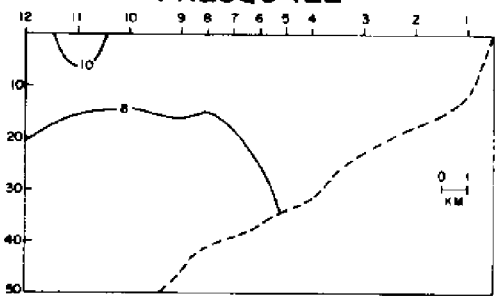
OSHAWA

no data

ROCHESTER



PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	0.16	0.0	0.16^{2}
OLCOTT	0.0	-1.45	-1.45^{4}
OSHAWA	---	---	---
PRESQU'ILE	-0.19	-10.36	-10.58^{11}

HOURLY WIND SPEED AND STRESS

DATE: 10/11

BUOY 10 (ROCHESTER & PRESQU'ILE)

BUOY 5 (OLCOTT & OSHAWA)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	4.94	102	-38	7		6.38	125	-62	42	
1	5.26	092	-44	2		7.03	123	-76	66	
2	5.54	133	-39	39		8.32	135	-74	82	
3	7.07	150	-41	70		8.39	149	-81	64	
4	8.08	170	-19	110		8.04	157	-41	57	
5	8.05	151	-53	96		7.49	153	-19	41	
6	7.71	161	-30	88		5.89	168	-16	47	
7	7.27	185	6	84		5.02	175	7	25	
8	6.34	177	- 3	68		5.13	182	1	15	
9	7.58	178	- 3	89		4.55	191	0	16	
10	8.06	196	29	98		4.19	190	- 7	17	
11	7.33	194	22	86		4.40	174	0	19	
12	7.85	173	-11	95		5.04	178	- 6	23	
13	8.40	171	-17	109		5.54	180	- 1	22	
14	6.81	191	15	78		5.13	161	- 6	14	
15	5.83	157	-20	49		3.92	171	8	23	
16	4.55	158	-13	32		4.28	130	27	23	
17	4.40	145	-17	25		4.63	112	9	25	
18	4.70	145	-20	31		4.43	103	24	26	
19	4.71	147	-19	29		3.15	090	27	26	
20	3.63	145	-12	18		2.73	079	46	17	
21	3.90	174	- 1	25		2.29	104	33	18	
22	4.46	195	8	30		1.43	173	17	8	
23	4.70	187	4	35		2.70	208	8	22	
AVER			-14	58	60			- 8	31	32

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	1.92	130	- 4	4	
1	3.23	158	- 5	15	
2	4.39	166	- 6	30	
3	6.32	176	- 3	63	
4	7.50	180	0	91	
5	8.41	180	0	109	
6	9.16	203	52	123	
7	9.13	175	-10	139	
8	9.76	200	51	138	
9	10.17	200	54	150	
10	9.79	204	61	136	
11	8.90	201	46	124	
12	8.98	195	36	138	
13	10.26	199	54	155	
14	9.94	205	65	142	
15	8.46	200	41	121	
16	9.14	194	32	131	
17	8.73	194	31	121	
18	8.89	196	34	118	
19	8.26	188	14	101	
20	7.80	195	25	90	
21	6.69	178	- 4	83	
22	9.12	179	0	131	
23	10.29	194	38	155	
AVER			25.0	108.7	111.5

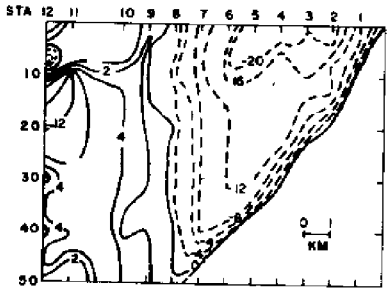
CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 10/12

OLCOTT

DEPTH (M)

no data

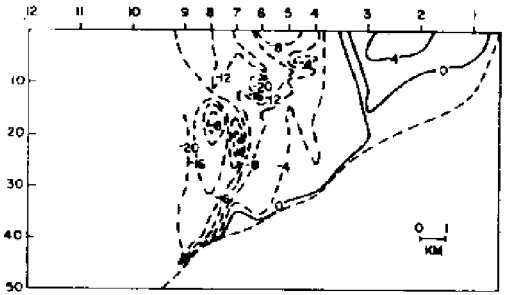
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	1.19	-2.22	-1.03^{11}
PRESQU'ILE	0.13	-3.06	-2.94^{9}

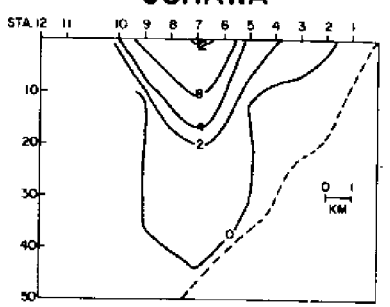
CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 10/12

OLCOTT

DEPTH (M)

no data

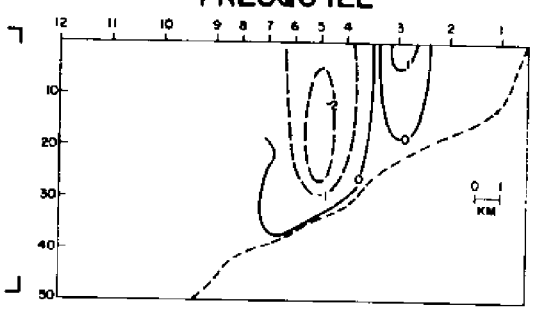
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.66	-0.05	0.61^{11}
PRESQU'ILE	0.07	-0.48	-0.41^{9}

CROSS SECTIONS OF TEMPERATURE

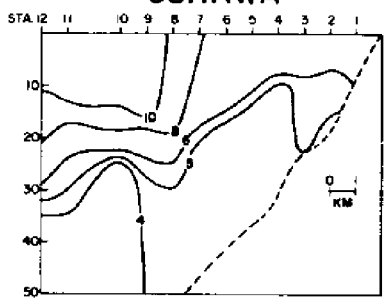
DATE: 10/12

DEPTH (M)

OLCOTT

no data

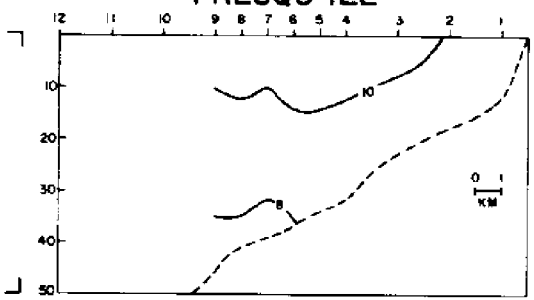
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.53	-2.17	-1.64^{11}
PRESQU'ILE	0.06	-2.58	-2.53^{9}

HOURLY WIND SPEED AND STRESS

DATE: 10/12

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	11.53	194	50	197	
1	12.27	210	115	199	
2	13.01	206	113	227	
3	12.12	205	99	211	
4	12.01	207	100	195	
5	11.03	221	126	146	
6	9.98	221	107	121	
7	9.33	224	91	95	
8	7.87	220	66	76	
9	7.22	227	60	55	
10	6.71	228	51	49	
11	5.42	268	49	0	
12	6.96	262	74	11	
13	6.31	280	63	-10	
14	5.57	290	49	-16	
15	5.42	301	39	-23	
16	6.07	300	54	-31	
17	7.87	295	91	-41	
18	7.71	307	88	-57	
19	6.96	016	-20	-72	
20	6.36	038	-43	-57	
21	5.54	035	-31	-40	
22	4.59	008	- 2	-33	
23	6.98	358	2	-77	
AVER			58.0	46.9	74.6

BUOY 10 (ROCHESTER & PRESQU'ILE)

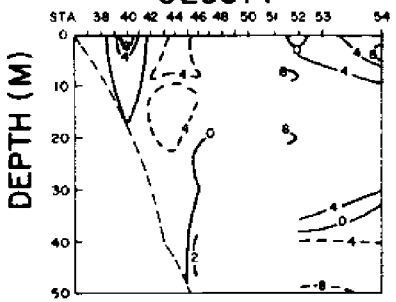
WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
6.04	199	20	56	
6.79	185	7	71	
7.22	191	15	81	
6.76	213	40	60	
5.94	218	36	49	
4.72	219	24	31	
6.25	256	61	14	
6.22	247	63	27	
6.33	264	63	7	
6.32	244	61	30	
7.25	266	79	5	
6.26	261	71	13	
6.45	270	69	3	
5.45	297	42	-20	
5.13	297	37	-18	
5.28	303	40	-26	
6.72	296	68	-34	
8.50	307	88	-67	
8.69	296	108	-51	
8.39	285	109	-27	
7.28	294	80	-33	
8.84	328	63	-101	
11.53	317	142	-152	
9.91	341	52	-150	
		60	-10	61

BUOY 5 (OLCOTT & OSHAWA)

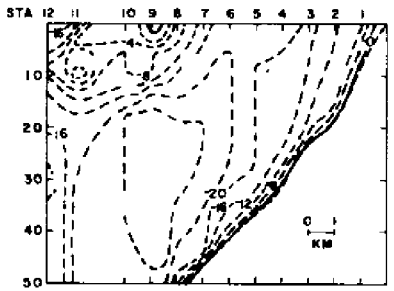
WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
3.83	200	13	34	
6.04	235	38	18	
7.63	252	67	38	
6.88	245	100	89	
6.10	257	112	57	
7.64	245	90	28	
8.83	248	100	36	
8.97	251	62	58	
7.78	237	82	46	
8.23	258	75	42	
7.85	246	64	22	
5.29	280	49	11	
4.63	304	30	- 7	
3.70	308	11	-18	
6.02	327	31	-34	
5.74	298	40	-33	
5.58	297	59	-37	
6.90	285	54	-19	
6.46	303	62	-26	
7.97	340	75	-72	
8.32	329	116	-13	
9.36	322	137	-86	
11.03	302	164	-155	
10.65	332	120	-144	
		73	- 7	73

CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 10/13

OLCOTT



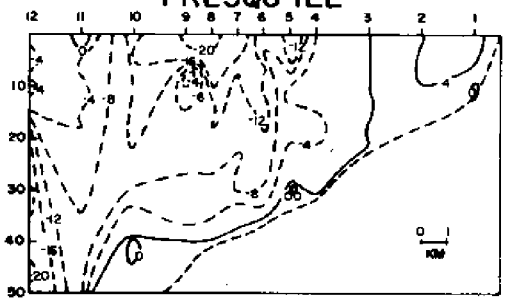
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

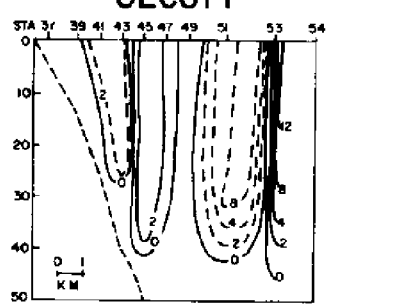
DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

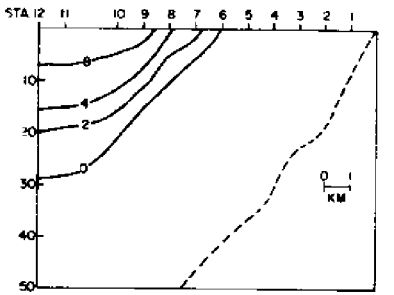
LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT - 1	1.02	-0.54	0.49^6
2	0.21	-0.52	-0.31^6
OSHAWA	0.0	-9.26	-9.26
PRESQU'ILE	0.19	-4.12	-3.93

CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 10/13

OLCOTT



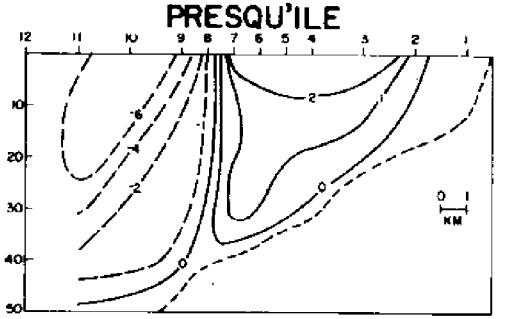
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

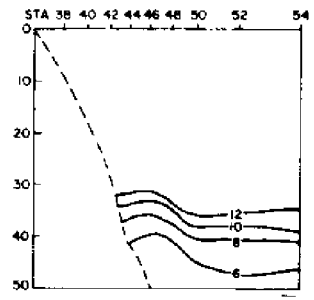
DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT - 1	0.74	-0.27	0.47^6
2	1.02	-0.09	0.93^6
OSHAWA	0.69	-0.05	0.64
PRESQU'ILE	0.36	-1.44	-1.09

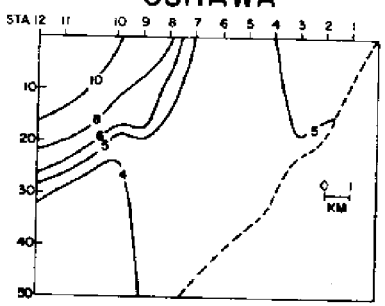
CROSS SECTIONS OF TEMPERATURE

DATE: 10/13

OLCOTT



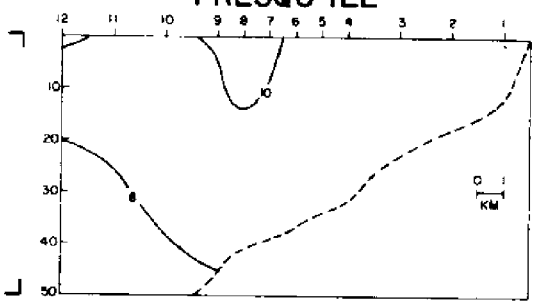
OSHAWA



ROCHESTER

no data

PRESQU'ILE



OSWEGO

no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT - 1	0.28	-0.27	0.02^6
2	-0.81	-0.43	-1.24^6
OSHAWA	-0.69	-9.21	-9.90
PRESQU'ILE	-0.17	-2.68	-2.84

HOURLY WIND SPEED AND STRESS

DATE: 10/13

BUOY 10 (ROCHESTER & PRESQU'ILE)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	7.65	319	66	-77	
1	8.78	349	24	-120	
2	9.33	340	47	-130	
3	8.59	333	53	-103	
4	7.91	344	28	-99	
5	8.71	344	32	-113	
6	7.97	338	37	-91	
7	7.10	002	- 3	-83	
8	7.63	352	12	-94	
9	7.02	003	- 4	-82	
10	6.67	014	-16	-69	
11	6.33	005	- 5	-62	
12	4.78	012	- 8	-38	
13	4.95	011	- 7	-38	
14	4.10	011	- 4	-27	
15	3.06	353	2	-14	
16	2.16	007	0	- 7	
17	2.36	276	9	0	
18	3.31	284	17	- 3	
19	2.04	309	6	- 3	
20	1.90	331	3	- 4	
21	0.95	326	1	- 1	
22	2.20	206	3	8	
23	3.17	190	3	16	
AVER			12	-52	54

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	9.26	339	48	-124	
1	8.76	357	6	-127	
2	8.67	011	-21	-116	
3	7.46	007	-10	-90	
4	7.98	013	-22	-97	
5	6.93	015	-21	-82	
6	6.95	003	- 3	-75	
7	7.09	005	- 6	-78	
8	7.02	016	-20	-73	
9	6.67	010	-13	-74	
10	6.63	014	-15	-60	
11	5.78	014	-11	-51	
12	5.65	018	-14	-46	
13	4.99	021	-14	-36	
14	3.82	015	- 5	-23	
15	2.51	005	0	- 9	
16	2.18	335	4	- 6	
17	3.00	313	11	- 9	
18	3.43	276	18	- 1	
19	3.62	274	21	- 1	
20	4.66	290	33	-11	
21	4.94	270	39	0	
22	5.26	284	42	-10	
23	4.29	274	30	- 2	
AVER			3.2	-50.0	50.1

BUOY 5 (OLCOTT & OSHAWA)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	10.32	331	126	-93	
1	9.87	339	100	-68	
2	8.00	347	57	-66	
3	6.94	355	15	-55	
4	7.05	004	- 1	-64	
5	7.56	002	0	-88	
6	7.39	010	-74	-50	
7	7.61	016	-37	-70	
8	6.71	011	-23	-50	
9	6.35	015	-31	-45	
10	6.01	022	-28	-45	
11	5.85	045	-17	-27	
12	5.29	057	-13	-10	
13	4.29	053	- 7	- 9	
14	3.01	033	- 3	- 5	
15	2.13	040	- 4	0	
16	0.90	059	- 2	0	
17	1.28	150	- 3	2	
18	1.39	153	- 3	6	
19	1.89	152	2	2	
20	1.51	193	7	0	
21	2.83	186	9	2	
22	3.61	191	11	5	
23	4.44	188	10	19	
AVER			3	-30	30

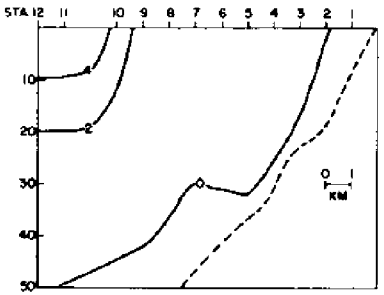
CROSS SECTIONS OF LONGSHORE COMPONENT OF VELOCITY DATE: 10/15

OLCOTT

DEPTH (M)

no data

OSHAWA



ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

DAILY LONGSHORE VELOCITY TRANSPORT (u)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.89	-1.22	-0.33[11]
PRESQU'ILE	---	---	---

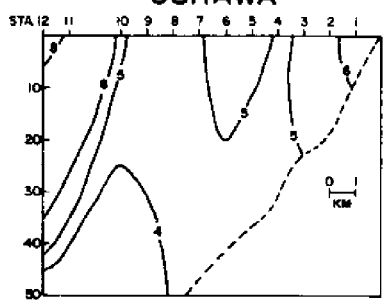
CROSS SECTIONS OF LONGSHORE BAROCLINIC GEOSTROPHIC VELOCITY DATE: 10/15

OLCOTT

DEPTH (M)

no data

OSHAWA



ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

DAILY LONGSHORE BAROCLINIC GEOSTROPHIC TRANSPORT (u_g) (10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.39	-0.04	0.35
PRESQU'ILE	---	---	---

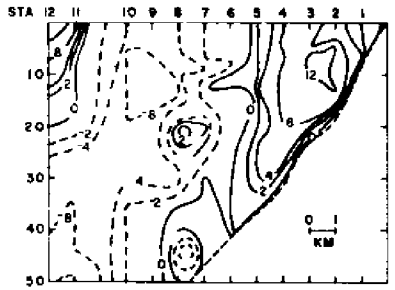
CROSS SECTIONS OF TEMPERATURE

DATE: 10/15

OLCOTT

no data

OSHAWA



ROCHESTER

no data

PRESQU'ILE

no data

OSWEGO

no data

DAILY LONGSHORE TRANSPORT DIFFERENCE ($u-u_g$)

(10^4 M^3/SEC)

LINE	POS	NEG	TOT
OSWEGO	---	---	---
ROCHESTER	---	---	---
OLCOTT	---	---	---
OSHAWA	0.50	-1.18	-0.68^{11}
PRESQU'ILE	---	---	---

DATE: 10/15

HOURLY WIND SPEED AND STRESS

BUOY 11 (OSWEGO)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	13.46	299	248	-142	
1	13.20	323	166	-219	
2	9.61	317	115	-119	
3	9.11	348	30	-135	
4	9.52	320	93	-110	
5	10.16	342	54	-157	
6	8.91	346	37	-140	
7	9.74	002	- 4	-160	
8	9.44	329	73	-120	
9	7.85	337	42	-102	
10	9.17	316	92	-93	
11	9.82	330	77	-131	
12	8.33	326	65	-99	
13	8.98	317	92	-101	
14	8.79	332	57	-105	
15	7.88	318	65	-72	
16	7.19	326	48	-70	
17	8.30	297	96	-48	
18	9.07	298	118	-64	
19	8.34	280	121	-21	
20	10.10	298	148	-78	
21	10.03	297	152	-78	
22	9.67	297	151	-60	
23	9.95	296	166	-55	
AVER			95.9	-101.3	141.0

BUOY 10 (ROCHESTER & PRESQU'ILE)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	12.92	327	149	-239	
1	11.67	321	133	-164	
2	9.52	313	116	-106	
3	10.84	307	155	-115	
4	10.06	316	112	-117	
5	9.27	340	48	-131	
6	9.15	343	42	-132	
7	8.86	328	73	-116	
8	10.05	348	34	-158	
9	8.24	344	31	-118	
10	7.71	316	78	-76	
11	9.66	309	122	-99	
12	8.67	337	48	-115	
13	8.43	325	70	-99	
14	8.43	326	67	-98	
15	6.88	304	72	-45	
16	7.64	304	76	-49	
17	6.56	290	75	-25	
18	8.93	285	121	-31	
19	8.52	297	105	-53	
20	9.49	291	134	-48	
21	8.95	290	123	-45	
22	9.29	306	109	-79	
23	7.29	311	71	-59	
AVER			90.2	-96.5	132.1

BUOY 5 (OLCOTT & OSHAWA)

TIME GMT	WIND(M/S) SP	DIR	STRESS(10^{-1}DYNE/CM^2) E	N	R
0	11.53	346	205	40	
1	10.70	300	177	-49	
2	11.75	290	187	-36	
3	11.31	342	280	-20	
4	9.49	337	150	-85	
5	9.49	340	183	5	
6	6.41	343	96	-76	
7	7.59	335	70	-94	
8	6.55	331	63	-43	
9	7.20	314	89	-38	
10	7.99	345	95	-31	
11	6.39	341	82	-38	
12	6.12	354	39	-69	
13	6.81	333	5	-46	
14	5.20	321	48	-22	
15	5.10	314	37	-21	
16	5.20	294	48	- 6	
17	6.47	270	44	-12	
18	6.58	290	44	2	
19	6.17	300	139	- 3	
20	6.73	322	148	10	
21	6.51	303	137	-14	
22	8.22	294	102	-16	
23	8.65	290	120	25	
AVER			108	-27	111