

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE

WATER LEVEL NOTE FOR HYDROGRAPHIC SHEET

Processing Division: Pacific Marine Center: N/MOP21

Hourly heights are approved for: See Remarks

Water Level Station

Period: August 13 to September 21, 1984 and July 15 to September 25, 1985

HYDROGRAPHIC SHEET: H-10152

OPR- X278-HFP-84 and 85

Locality: St. Marys River

See Remarks

Plane of reference: Low Water Datum (IGLD ----- ----- Feet)

Remarks:

Above the locks;

Station 907-6070 Southwest Pier, MI

Low Water Datum 599.8 feet, IGLD 1955

Harry A. Hyslop
Chief, Great Lakes Acquisition Unit

Field Water Level Note

Field water level reduction of soundings was based on unverified actual heights from the water level gage above the Corps of Engineers Locks, at Sault Ste. Marie, Michigan. This is station Southwest Pier, No. 907-6070. Data from this station were interpolated using program RK500 on the Digital PDP/8e computer. Water level records were recorded in Eastern Standard Time, while the computer output was in GMT.

Water Level Gages required to be in operation by the Project Instructions for the area covered by this survey (west of the Locks) were:

Site	Station No.	Latitude	Longitude
=====			
Southwest Pier	907-6070	46°30.0'N	84°22.4'W
Pt. Iroquois	909-9004	46°29.1'N	84°37.4'W

Levels were run at both sites, prior to collecting data for hydrography and again after data collection ceased for the field season on OPR-X278. Comparison of levels run at station Southwest Pier, showed a difference of 0.014 ft. on the ETG between the before and after levels. Comparison of levels run at station Pt. Iroquois showed a difference of 0.006 ft. on the ETG between the before and after levels.

Contact was maintained with the Corps of Engineers Southwest Pier gage observer to insure proper operation and obtain actual water level readings. Contact was made with the Pt. Iroquois gage observer to insure proper operation was maintained at that station.

The only problem encountered with either site occurred with the Southwest Pier gage on August 8, 1985, when readings between 0200 and 0700 EST were not recorded. This did not affect the survey, as operations on this day did not begin until after 0800, and then only bottom samples were taken.