



United States Department of the Interior

GEOLOGICAL SURVEY
RESTON, VA 22092

91008

Sept. 30, 1991

Post Cruise Report

LEGS 1-9-91

VESSEL: R/V GS 1; operated by the Lake Erie Section of the Ohio Geological Survey, Dept. of Natural Resources

AREA OF OPERATION: Western portion of Lake Erie (Sandusky to Lorain) and offshore Cleveland) - see attached trackline chart

DATES: 8 Sept to 22 Sept

PORTS OF CALL: Sandusky and Cleveland, Ohio

CO-CHIEF SCIENTISTS: *Paul Rice*
Ron Circe, USGS, Reston, VA
Jonathan Fuller, OGS, Sandusky, Ohio

SCIENTIFIC PARTY: Bob Oldale, USGS, Woods Hole, MA
Ken Parolski, USGS, Woods Hole, MA

SHIP'S CAPTAIN: Dale Liebenthal, OGS, Sandusky, Ohio

VISITORS: Frances Buchholzer, Director, Ohio Dept. of Natural Resources
Tom Berg, Ohio State Geologist
Rick Pavey, Acting Section Head, Lake Erie Section, OGS

PURPOSE: This cruise, LEGS 1-9-91, was a cooperative effort between the Lake Erie Section of the Ohio Geological Survey and the U.S. Geological Survey, to begin studying the geologic framework of the Ohio portion of Lake Erie.

EQUIPMENT: HUNTEC boomer system & Benthos hydrophone
Klein Sidescan Sonar
O.R.E. 180 3.5 kHz system
ECHOTRAC digital bathymetry system
Q-MIPS digital processing system for sidescan sonar

NAVIGATION:

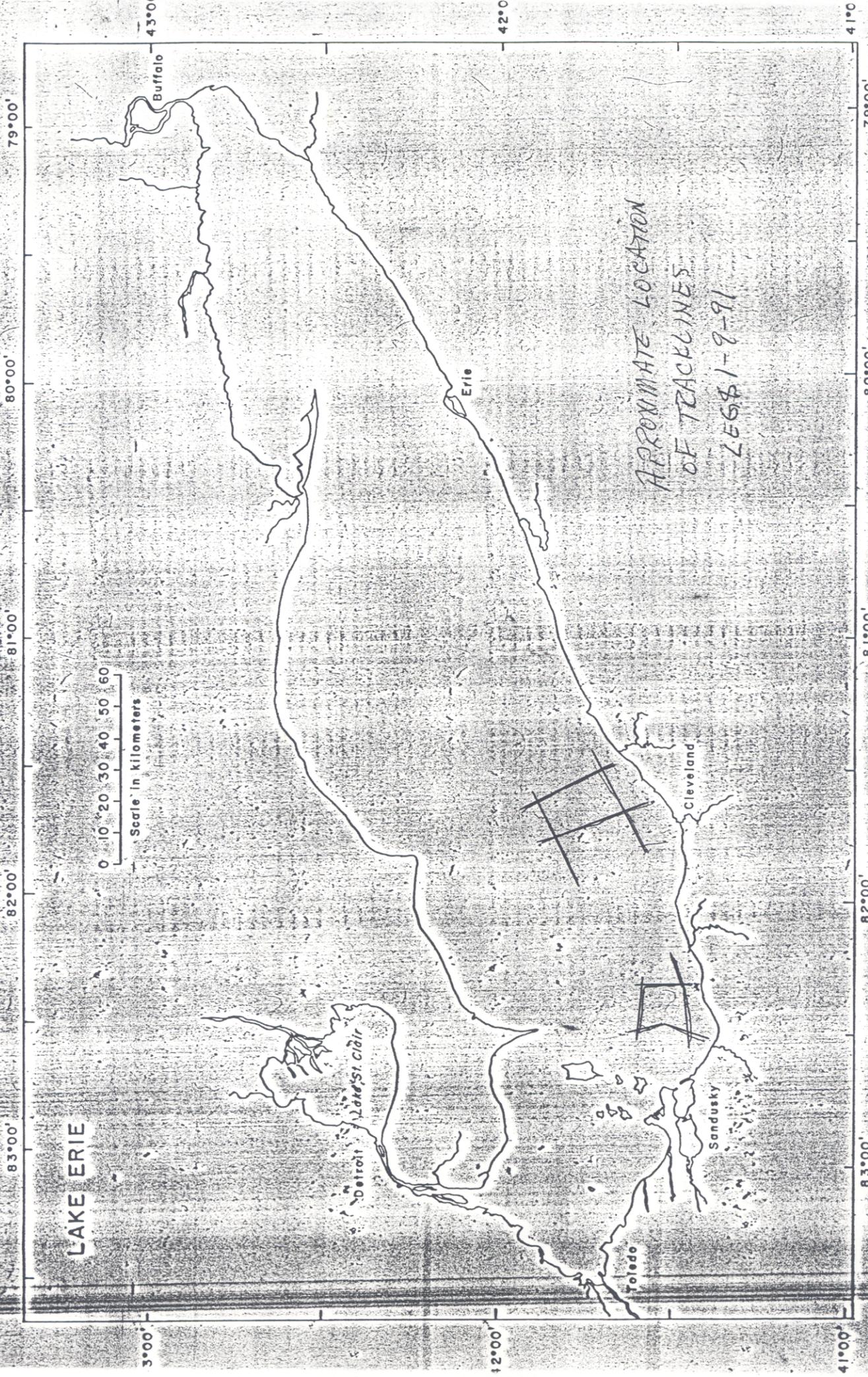
PC based GPS (utilizing a Trimble navigation unit) with supplemental LORAN-C via MEGAPULSE

TABULATED
INFORMATION:

- * 5.5 days of data collection
- * 5.5 days of weather
- * approx. 135 nautical line miles (250 kilometers) of sub-bottom and sidescan sonar data

* see attached trackline chart *

LAKE ERIE



APPROXIMATE LOCATION
OF TRACKLINES
LEGS 1-9-91

Scale in kilometers
0 10 20 30 40 50 60