



United States Department of the Interior

GEOLOGICAL SURVEY
BOX 25046 M.S. 913
DENVER FEDERAL CENTER
DENVER, COLORADO 80225

PIKE
#93015

TAKE
PRIDE IN
AMERICA

IN REPLY REFER TO:

August 17, 1993

Memorandum:

To: Nancy K. Soderberg, BAMG, Woods Hole

From: ^{GLS} Gerald L. Shideler, BCRG, Denver

Subject: Cruise Report

Location: Western Lake Erie Coastal Zone--City of Huron to Maumee Bay, Ohio.

Date: July 31 - August 7, 1993.

Purpose: To establish a network of nearshore seismic tie lines (tracklines A-K on attached map), which will enable the correlation of offshore seismic stratigraphy (from USGS/OGS 1991 & 1992 cruises) with onshore Quaternary lithostratigraphic sections being established from ongoing surficial mapping and subsurface studies.

Vessel: R/V Pike (USFWS 22 ft Boston Whaler from the NASA Plum Brook Station in Sandusky, Ohio).

Crew: G. Shideler & B. Stone (Co-Chief Scientists), K. Parolski (Marine Seismic Specialist), E. Scott (NAGT Student).

Equipment: Geopulse Seismic System, Loran-C Megapulse navigation system.

Log:

July 31 - Mobilization in the City of Sandusky, Ohio.

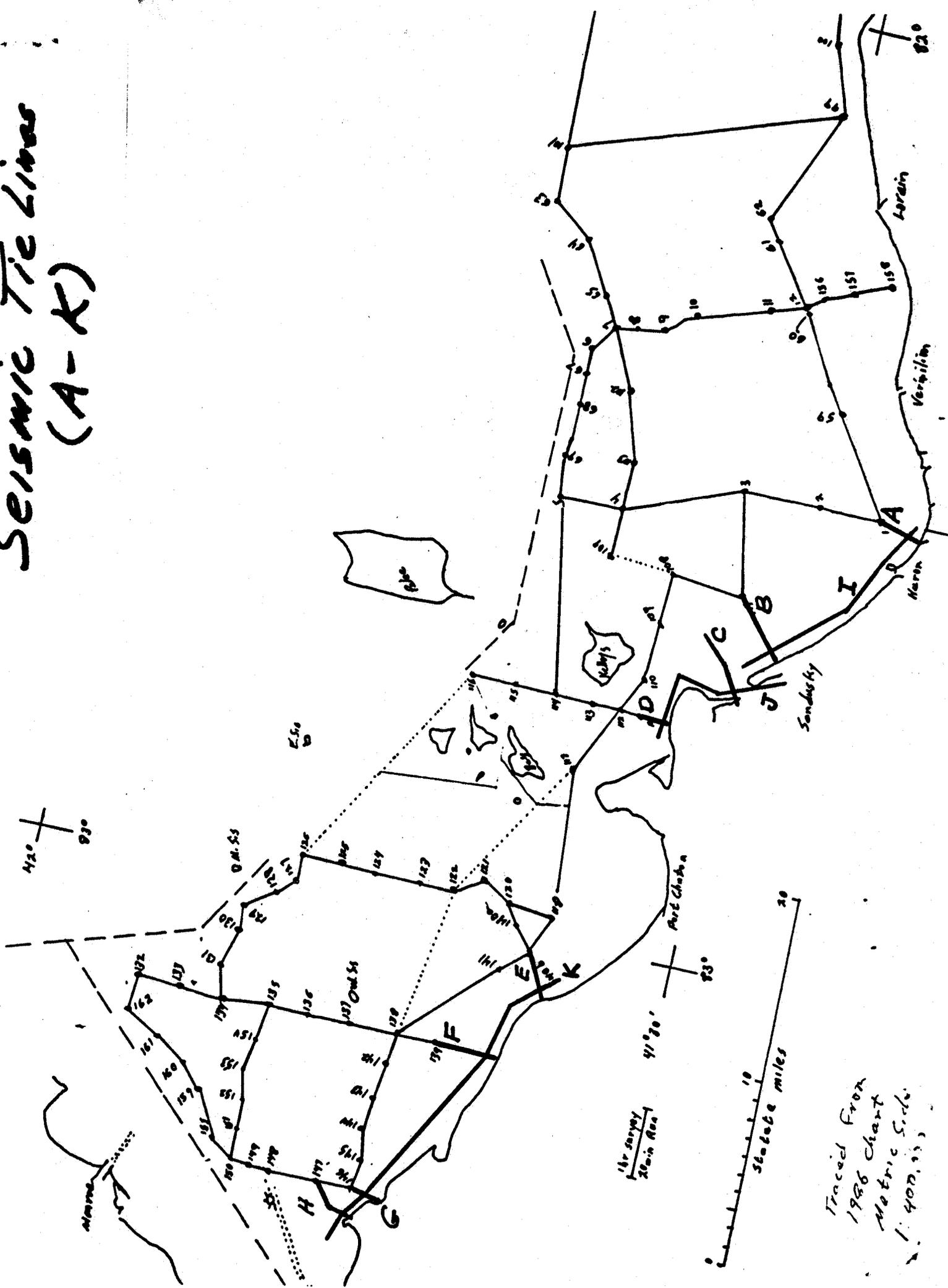
August 1 - Seismic survey in the little Cedar Point area - embarked from Ward Canal in Metzger Marsh - developed trouble with navigation system.

- August 2 - Repair of navigation system, changed hydrophone array and EPC recorder - conducted trial runs in vicinity of Ward Canal to test equipment - systems working, but choppy lake conditions prevented running tracklines.
- August 3 - Embarked from Ward Canal and ran seismics in little Cedar Point-Metzger Marsh area - developed trouble with Geopulse power supply and navigation system.
- August 4 - Repaired Geopulse power supply and replaced Loran Megapulse unit - tested equipment in Ward Canal and everything was operating properly but the sea state was too rough to run tracklines.
- August 5 - Embarked from Ward Canal and ran seismics from Little Cedar Point area to Locust Point area.
- August 6 - Embarked from the City of Huron and ran seismics from Huron area to the terminus of Big Cedar Point.
- August 7 - Embarked from the City of Sandusky and ran seismics from the mouth of Sandusky Bay to the Marblehead area - completed all coastal seismic work and demobilized in Sandusky. Equipment was transferred to the Ohio Geological Survey's research vessel GS-1 for the following eastern Lake Erie cruise, and the USFWS vessel was returned to the NASA Plum Brook Station.

Summary: The cruise was successful and resulted in the acquisition of approximately 75 miles of nearshore seismic records, some in water depths as shallow as 5 ft.

Attachment: Trackline map

Seismic Tie Lines (A-K)



Traced from
1986 Chart
Metric Side
1:400,000