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UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Woods Hole, MA 02543

30 August 1988

To: Bob Halley

From: Dave Folger

Subj: Cruise Report for seismic survey of the Illinois and Indiana shorelines

1. Vessel R/V NEECHO NECH

2. Cruise # and Leg NEECHO Lake Michigan 88-1 88-1-LM

3. Parent Project Southern Lake Michigan Study

4. Funding Agency Congress

5. Funding Amount $1.5 million

6. Contract Number 9470-04215

7. Contract start and end dates 1 Oct 1988-

8. Area of Operations Southern Lake Michigan

9. Dates, ports start and end of cruise 25 July 88-Great Lakes, Illinois to 11 Aug 88-Michigan City, Indiana

10. Chief Scientist D. W. Folger and D. S. Foster

11. Names and affiliations of scientific party

D. W. Folger	USGS-Woods Hole
D. F. Foster	"
T. O'Brien	"
B. Irwin	"
C. Polloni	"
K. Parolski	"
D. Nichols	"
D. Mason	"
T. Tvson	"
R. Tagg	USGS-Menlo Park

12. Purpose of the cruise To determine the seismic stratigraphy above bedrock on 24 transects from 10 NM offshore to the coasts of Illinois and Indiana.

13. Navigation Miniranger Falcon IV

14. Scientific Equipment

Huntek subbottom profiler
Klein Sidescan Sonar
Odem Echo Sounder Dual Frequency
Water level gauges

15. Days at sea 17
Line miles data 350 NM bathymetry and subbottom (648 KM)
Sidescan data will have to be acquired when the thermocline is destroyed by fall storms and cold weather.

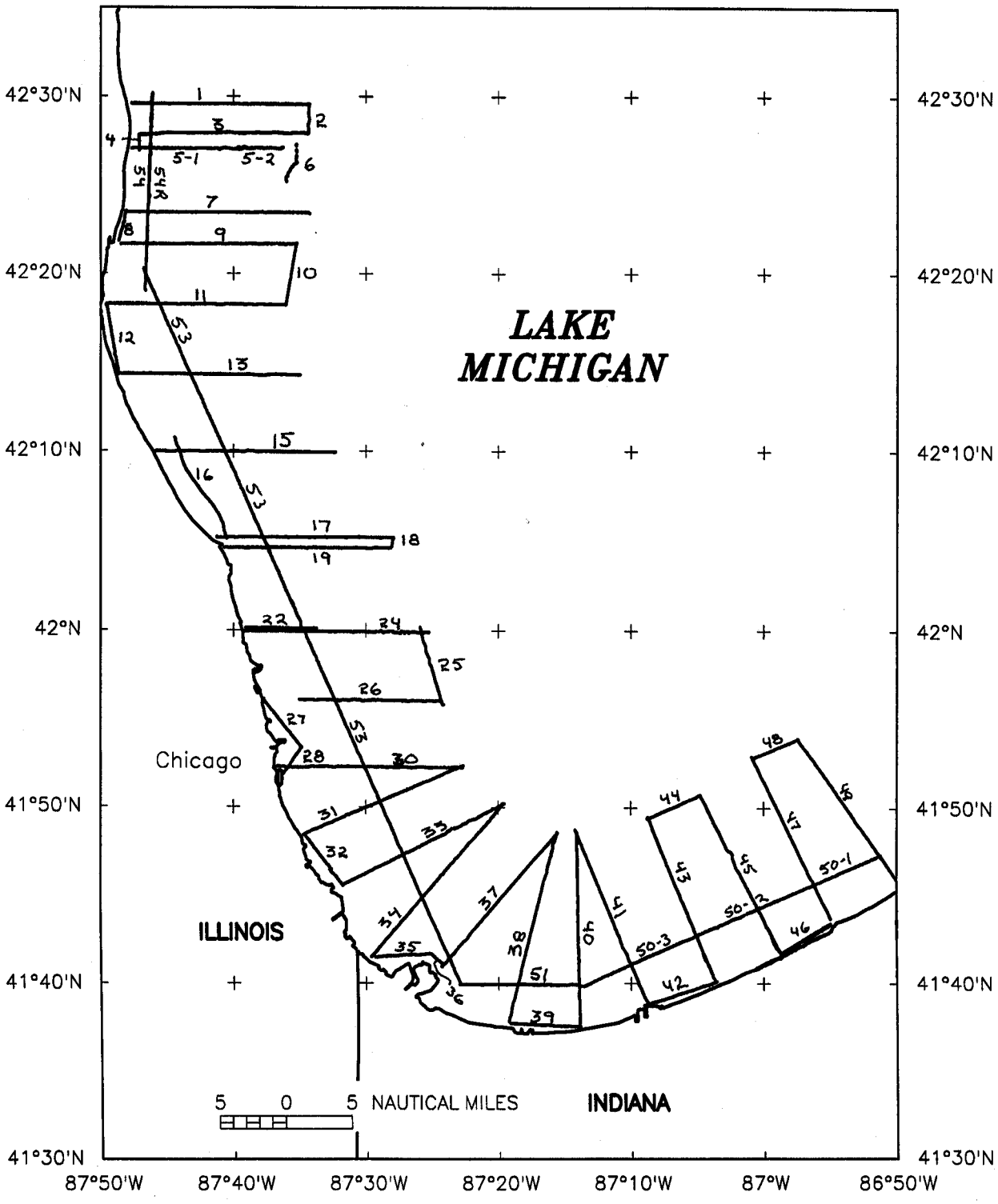
16. Map Attached

cc: D. Foster
T. O'Brien
C. Polloni
B. Irwin
K. Parolski
D. Nichols
D. Mason
R. Tagg
N. Soderberg
G. Sexton
J. Newell
S. Barton
A. Sallenger
J. Williams

LAKE MICHIGAN SURVEY (Phase 2 / 1988)

U. S. GEOLOGICAL SURVEY

ILLINOIS STATE GEOLOGICAL SURVEY / INDIANA GEOLOGICAL SURVEY



NEECHO 88-1 LAKE MICHIGAN 7/25/88 - 8/13/88

HUNTEC SURFACE TOW SINGLE-CHANNEL SEISMIC

Line	SOL	EOL	JD	DATE
8	1450	1514	207	7/25/88
9	1530	1726	207	7/25/88
10	1729	1806	207	7/25/88
11	1830	2025	207	7/25/88
12	2026	2118	207	7/25/88
54	1430	1734	208	7/26/88
1	1530	1731	209	7/27/88
2	1740	1802	209	7/27/88
3	1802	2002	209	7/27/88
5-1	2029	2155	209	7/27/88
54R	1543	1916	211	7/29/88
5-2	1725	1810	212	7/30/88
6	1850	1924	212	7/30/88
7	1707	1936	213	7/31/88
13	2126	2353	213	7/31/88
53-1	1450	1855	214	8/1/88
19-1	1944	2030	214	8/1/88
19-2	1930	2158	215	8/2/88
18	2217	2222	215	8/2/88
17	2223	0015	215-216	8/2 - 8/3/88
16	1450	1614	216	8/3/88
15	1634	1837	216	8/3/88
53-2	2008	2113	216	8/3/88
26	1554	1758	217	8/4/88
25	1818	1909	217	8/4/88
24	1959	2213	217	8/4/88
23	2234	2323	217	8/4/88
53-3	1438	1747:30	218	8/5/88
30	1855	2112:30	218	8/5/88
28	2129	2150:30	218	8/5/88
27	2158	2244	218	8/5/88
31	1633:30	1831:50	219	8/6/88
32	1847:45	1938:30	219	8/6/88
33	1941:30	2142	219	8/6/88
53-4	1600	1832	220	8/7/88
36	1904	1914	220	8/7/88
35	1914	1953	220	8/7/88
34	2004:30	2235	220	8/7/88
37	1608	1804:45	222	8/9/88
38	1836:50	2047:30	222	8/9/88
39	2110:30	2154:20	222	8/9/88
40	1540:15	1802:20	223	8/10/88
41	1831:40	2052:50	223	8/10/88
42	2106:40	2205:15	223	8/10/88
43-1	1540	1715	224	8/11/88
44	1758	1834	224	8/11/88
45	1855:30	2053	224	8/11/88
46	2103	2142	224	8/11/88
47	1448:50	1705:40	225	8/12/88
48	1756:30	1828:20	225	8/12/88
49	1830:20	2023	225	8/12/88
50-1	2121	2256:30	225	8/12/88
50-2	1456	1548	226	8/13/88
43-2	1559:40	1642:30	226	8/13/88
50-3	1912	2058	226	8/13/88
51	2059:50	2234	226	8/13/88