JENA
#93027

Return-Path: kms@nobska.er.usgs.gov
Date: Thu, 16 Dec 1993 13:51:46 -0500
To: nsoderberg@nobska.er.usgs.gov (Nancy Soderberg)
From: kms@nobska.er.usgs.gov (Kathy Scanlon)

Here it is again... Let me know if you can read this...

U.S. GEOLOGICAL SURVEY
BRANCH OF ATLANTIC MARINE GEOLOGY

CRUISE REPORT

1. SHIP NAME (Parent vessel)/SUBMERSIBLE/OWNER-OPERATOR:
JEAN-A, owned and operated by the Puerto Rico Department of Natural Resources

2. CRUISE # AND LEG:
JENA 93-2

3. PROJECT # AND NAME:
9470-61053 Puerto Rico Insular Shelf Studies

4. FUNDING AGENCY:
Puerto Rico Department of Natural Resources and U.S. Geological Survey

5. CONTRACT (If applicable):

6. AREA OF OPERATIONS:
Insular shelf off Humacao, southeast Puerto Rico

7. DATES AND PORTS OF CALL:
November 06-10 Yabucoa, PR
November 10-11 U.S. Naval Base at Roosevelt Roads, PR
November 11-12 San Juan, PR for demobilization

8. CHIEF SCIENTIST(S):
Kathryn Scanlon

9. SCIENTIFIC PARTY (Names,affiliations,cruise duties):
Milton Carlo, USGS BAMG San Juan, geologic technician
Barry Irwin, USGS BAMG Woods Hole, navigation
Ken Parolski, USGS BAMG Woods Hole, electronics technician
Kathryn Scanlon, USGS BAMG Woods Hole, chief scientist
Juan Trias, USGS BAMG San Juan, geologist

10. SHIP'S CAPTAIN (and affiliation):
Richie ??????????, Puerto Rico Department of Natural Resources

11. PURPOSE OF CRUISE (brief statement)
To collect high resolution seismic reflection data and bottom samples in order to map the surficial sediments, geologic structure and morphology of the insular seafloor. Will be published as one in a series of geologic maps of the Puerto Rico insular shelf.

12. NAVIGATION TECHNIQUES:
Differential GPS, using land stations set up for this purpose at Punta Tuna lighthouse and Cerro las Pinas. We were also able to use a "mystery station", which may have been set up by NOAA for one of their ships that was also working in the area. Although we did not know its location, it gave a consistent and reliable signal.

13. SCIENTIFIC EQUIPMENT:
Huntec acoustic sound source with ORE Geopulse power supply and 10-element towed hydrophone array.
ORE 3.5 kHz sub-bottom profiler with 4 transceivers, towed astern, 15 feet below the water surface.
Shipek grab sampler.

14. TABULATED INFORMATION:

DAYS AT SEA:
6

CONTINUOUS DATA (in km):
167 km - high-resolution seismic reflection
167 km - 3.5 kHz subbottom profiler

STATIONS OCCUPIED (stationary and underway):
grab sample sites: 75 (numbered HK-48 to HK-122)
continuous seismic profile lines: numbered 1 to 27

SUBMERSIBLE DIVES (BY #):
not applicable

STATION INFORMATION:

SAMPLE #	LATITUDE	LONGITUDE
HK048	18d1.10n	65d49.60w
HK049	18d1.06n	65d49.09w
HK050	18d0.48n	65d49.51w
HK051	18d0.08n	65d49.84w
HK052	18d0.12n	65d50.82w
HK053	18d0.08n	65d51.81w
HK054	18d0.33n	65d51.02w
HK055	18d0.46n	65d50.36w
HK056	18d1.87n	65d48.71w
HK057	18d1.94n	65d49.40w
HK058	18d3.29n	65d47.89w
HK059	18d3.40n	65d47.20w
HK060	18d2.97n	65d46.44w
HK061	18d2.49n	65d44.91w
HK062	18d3.40n	65d45.02w
HK063	18d4.21n	65d46.30w
HK064	18d5.00n	65d47.08w
HK065	18d5.29n	65d46.21w
HK066	18d4.51n	65d45.20w
HK067	18d3.84n	65d44.13w
HK068	18d4.71n	65d44.04w
HK069	18d5.28n	65d42.53w
HK070	18d5.62n	65d42.91w
HK071	18d6.01n	65d43.54w
HK072	18d6.49n	65d44.35w
HK073	18d6.99n	65d44.82w
HK074	18d7.36n	65d45.34w
HK075	18d7.79n	65d45.84w
HK076	18d6.26n	65d46.32w
HK077	18d5.95n	65d41.31w
HK078	18d6.52n	65d41.62w
HK079	18d7.28n	65d42.01w
HK080	18d7.71n	65d42.52w
HK081	18d8.61n	65d42.52w
HK082	18d7.78n	65d43.73w
HK083	18d8.95n	65d45.28w
HK084	18d9.19n	65d43.39w
HK085	18d10.49n	65d42.41w
HK086	18d10.49n	65d40.80w
HK087	18d11.21n	65d40.29w
HK088	18d9.78n	65d40.89w
HK089	18d9.71n	65d41.64w
HK090	18d9.09n	65d40.88w
HK091	18d9.07n	65d40.31w
HK092	18d8.89n	65d39.59w
HK093	18d8.20n	65d38.98w
HK094	18d8.38n	65d38.08w
HK095	18d7.29n	65d38.02w
HK096	18d5.90n	65d38.32w
HK097	18d5.19n	65d37.95w
HK098	18d6.20n	65d39.02w
HK099	18d6.08n	65d40.06w
HK100	18d6.72n	65d40.24w
HK101	18d7.91n	65d40.52w
HK102	18d2.89n	65d49.02w
HK103	18d2.63n	65d49.49w
HK104	18d11.08n	65d37.67w
HK105	18d10.29n	65d37.10w
HK106	18d9.68n	65d38.05w
HK107	18d10.50n	65d38.22w
HK108	18d9.99n	65d38.93w
HK109	18d11.12n	65d39.22w
HK110	18d11.73n	65d38.95w
HK111	18d11.78n	65d37.90w

HK112	18d11.09n	65d36.31w
HK113	18d11.60n	65d36.31w
HK114	18d12.20n	65d36.30w
HK115	18d12.01n	65d35.59w
HK116	18d12.52n	65d35.70w
HK117	18d12.50n	65d34.90w
HK118	18d12.99n	65d34.30w
HK119	18d13.13n	65d34.84w
HK120	18d13.18n	65d35.31w
HK121	18d13.90n	65d35.00w
HK122	18d13.58n	65d34.29w

15. PAGE-SIZE TRACKCHART (including station & line #'s)attached

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Kathy Scanlon
U.S. Geological Survey
Woods Hole, MA 02543
phone: (508) 457-2323
FAX: (508) 457-2310
e-mail: kscanlon@nobska.er.usgs.gov
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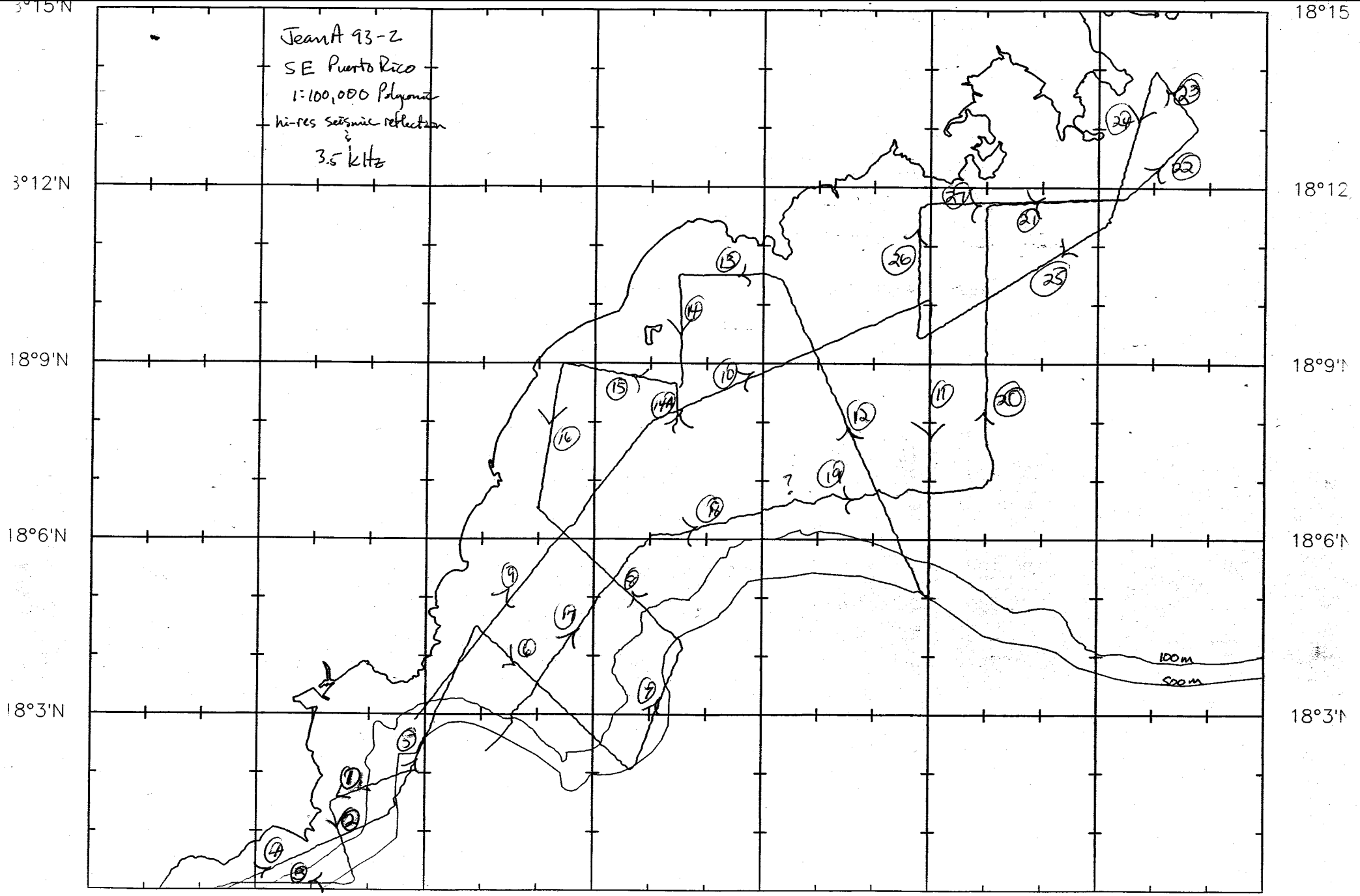
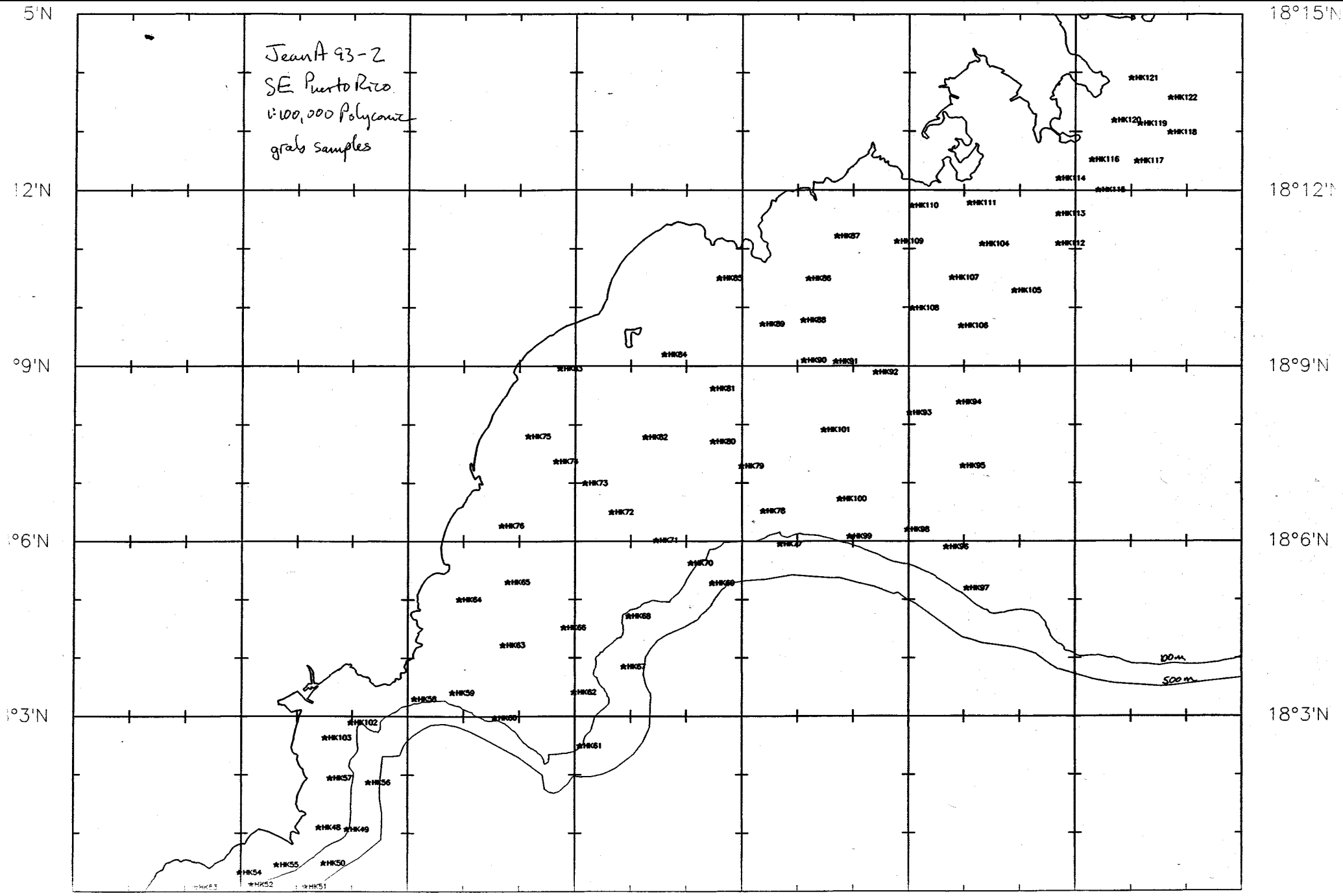

Jean A 93-2
SE Puerto Rico
1:100,000 Polygonal
hi-res seismic reflection
3.5 kHz
18°15'N
18°12'N
18°9'N
18°6'N
18°3'N
100 m
500 m


JeanA 93-2
SE Puerto Rico
1:100,000 Polycone
grab samples
5'N
12'N
°9'N
°6'N
°3'N
18°15'N
18°12'N
18°9'N
18°6'N
18°3'N
100m
500m
HK121
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