

19870924HL DROPS

E.6 Omega Dropwindsonde Scientist (On-board)

The on-board Lead Project Scientist (LPS) on each aircraft is responsible for determining the distribution patterns for sonde releases. Predetermined desired data collection patterns are illustrated on the flight patterns. However, these patterns often are required to be altered because of clearance problems, etc. Operational procedures are contained in the operator's manual. The following list contains more general supplementary procedures to be followed. (Check off and initial.)

E.6.1 Preflight

- ☒ 1. Determine the status of equipment and report results to the on-board LPS.
- ☒ 2. Confirm the mission and pattern selection from the LPS and assure that the proper number and distribution (frequency) of sondes are on board the aircraft.
- ☐ 3. Complete the appropriate preflight calibrations and checklists.

E.6.2 In-Flight

- ☐ 1. Operate the system as specified in the operator's manual.
- ☐ 2. Obtain drop release approval (for each drop) from the OAO/Flight Director or Navigator for each specific time and location of drop.
- ☐ 3. Report to the LPS as soon as it is determined that the sonde is or is not transmitting a good signal.
- ☐ 4. Report completion of each drop and readiness for the next drop.
- ☐ 5. Complete Form E-6.

E.6.3 Postflight

- ☐ 1. Complete the summary form for dropwindsondes.
- ☐ 2. Brief the on-board LPS on equipment status and turn in reports and completed forms to the LPS.
- ☐ 3. Hand-carry all dropwindsonde data tapes and printouts and inform the OAO/Flight Director that you are arranging delivery as follows:
 - a. Outside of Miami - to the HRD operations center (FGOC).
 - b. In Miami - to AOML/HRD (temporarily), either directly or via MGOC, for conversion to 9-track magnetic tapes.

OMEGA-DROPWINDSONDE SCIENTIST LOG

ODW SCIENTISTS_____

STORM: EMILY

OPERATOR _____

[illegible]

2009.11.15 POSTER

- _____ 4. Debrief at the appropriate operations center (FGOC or MGOC).
- _____ 5. Determine the status of future missions and notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted.

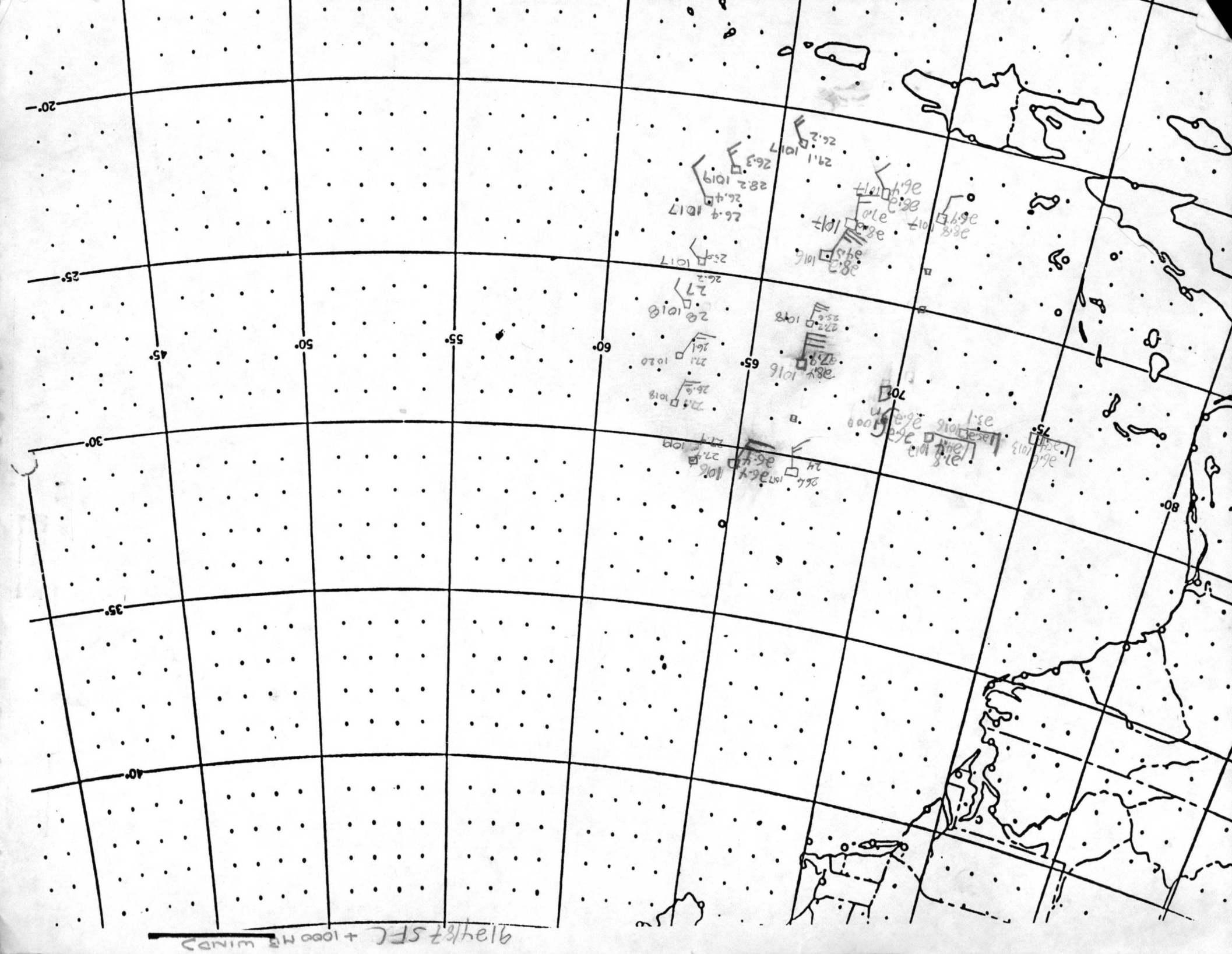
AOML / HRD

OMEGA-DROPWINDSONDE SCIENTIST LOG

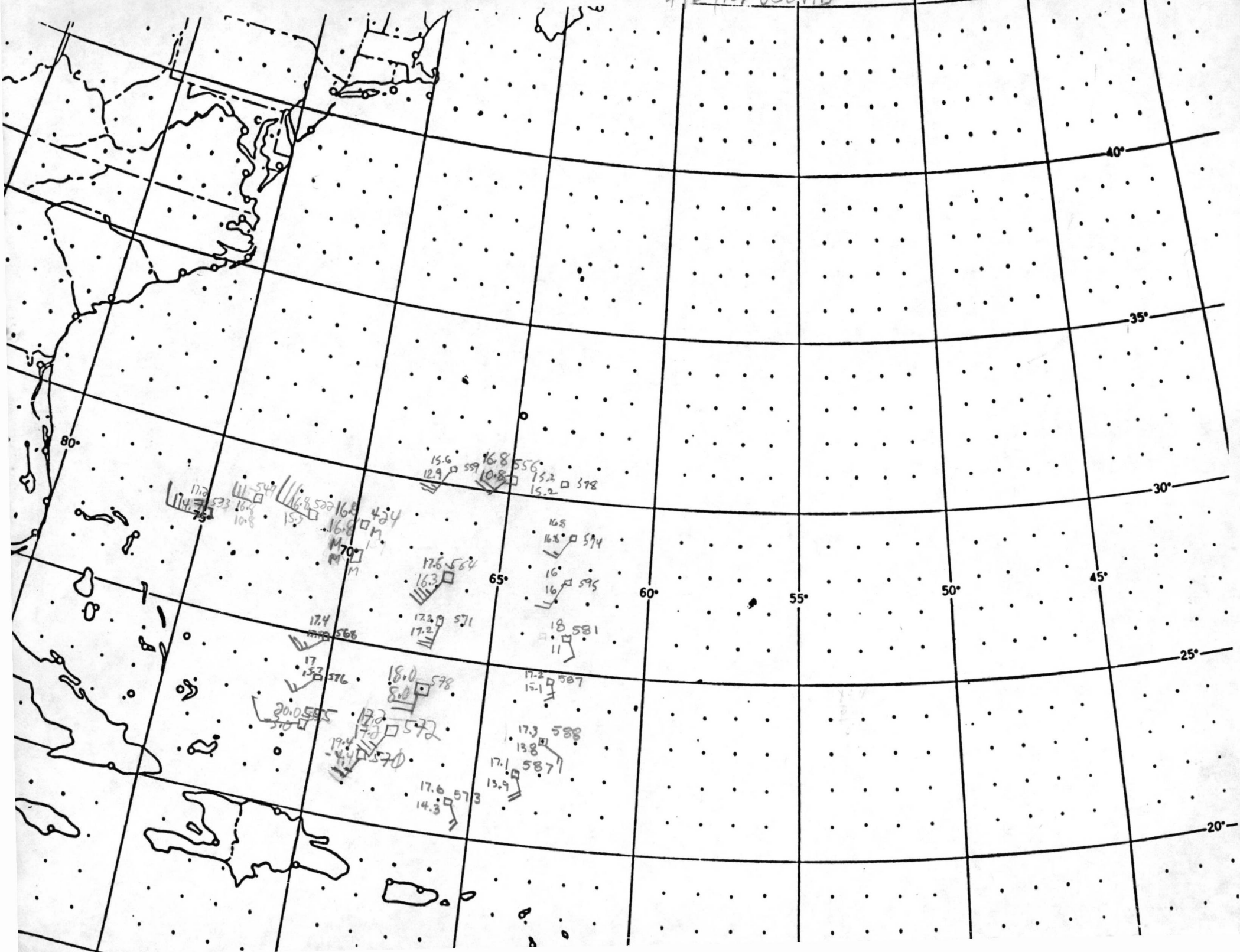
FLIGHT: 870924H1ODW SCIENTISTS WilloughbySTORM: Elena EmilyDorst, KaplanGarnacheOPERATOR Goldstein

KNOTS

DROP #	SONDE ID #	TIME GMT	LAT (°)	LON (°)	WIND (M/S) (WD/WS)	HEIGHT (GA)	TEMP (TA)	DEW PT. (TD)	PRESSURE (PS)	REMARKS
✓ 1	10435	1858	21.0	65.7	137/09	5475	-1.4	-24.2	529.9	
✓ 2	20653	1923	22.0	63.8	157/13	5478	-3.0	-22.9	530.0	
✓ 3	10401	1949	23.1	62.0	168/11	5476	-2.9	-14.1	530.1	Bad winds at 700 MB
4	20626	2007	24.5	62.2	197/7	5474	-2.6	-13.6	530.2	NO OMEGA
5	00465	2010	24.8	62.2	204/7	5473	-2.2	-23.0	530.2	
✓ 6	10436	2026	26.0	62.4	186/12	5468	-2.8	-25.3	530.3	
✓ 7	20624	2046	27.7	62.6	211/24	6171	-6.2	-28.3	484.6	
✓ 8	10437	2101	29.0	62.7	206/29	6161	-7.1	-28.6	484.7	turn at 2117
✓ 9	20621	2118	30.5	63.1	221/38	6137	-7.3	-30.4	485.0	NO OMEGA
✓ 10	10439	2142	30.5	65.0	218/42	6451	-9.6	-21.6	464.6	
11	00475	2207	30.5	67.0	229/48	6427	-9.4	-9.6	464.6	TURN
12	10400	2229	28.9	66.9	210/42	6452	-9.8	-13.7	465.0	SONDE DIED AT 600 MB
13	20651	2251	27.2	66.8	207/34	6463	-9.9	-16.8	465.1	
✓ 14	10399	2309	26.0	66.8	216/26	6471	-8.8	-27.9	465.3	
15	20654	2334	24.0	67.0	211/17	6480	-8.1	-30.5	465.2	
✓ 16	10460	2349	23.0	67.8	205/21	7148	-12.8	-38.5	426.3	turn at 0004 Z
17	20650	0005	22.0	68.6	209/11	7147	-12.9	-39.3	426.5	
✓ 18	10396	0023	22.1	70.2	207/11	7135	-13.4	-20.8	426.8	
19	20668	0039	23.5	70.2	226/12	7468	-15.9	-24.4	408.7	
✓ 20	00476	0044	23.9	70.2	229/16	7466	-16.0	-30.8	408.7	



9124/87850 MB



Hand-drawn map on a grid showing a coastline on the left and various data points with handwritten numbers and symbols. The grid has latitude lines from 20° to 40° and longitude lines from 80° to 60°.

Handwritten notes at the top right:

- 9/24/87
- 700 nB

Data points and symbols (approximate coordinates):

- 46, 7.8, 184, -7, 202 (near 35°N, 65°W)
- 7.4, 6.3, 175, 6.2, 158, 8.6, 8.6, 109, 8.2, 70, 6.9, 151 (near 30°N, 75°W)
- 7.8, 199, 8.2, 207, 6.2 (near 30°N, 65°W)
- 8.6, 16, 205, 8.4, 6.7, 211 (near 25°N, 75°W)
- 9.0, 3.0, 214, 10.3, 210, 10.4, 14, 225, 10.7, 224, 11.6, 216, -10 (near 20°N, 65°W)
- 8.6, 7.4, 209, 8.2, 225, 1.8, 10, 220, 9.2, 222, -6 (near 30°N, 60°W)

9/24/87
500mB

