19930830I1-PROPS

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 ODW 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 ODW's are on board the aircraft.

_____ 3. Complete the appropriate preflight calibrations and check lists.

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 AOC 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 ODW 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 ODW's.

_____ 2. Brief the on-board LPS on equipment status and turn in reports and completed forms to the LPS.

_____ 3. Hand-carry all ODW data tapes and printouts and inform the AOC 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.

_____ 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.

Form E-6

Page 2 of 2

HRD Omega–Dropwindsonde Scientist Log

Flight 930830I

Storm EMILY

18 0406
ETA 0440 BOSON

ODW Scientists _____

AOC Operator _____

Drop No.	Sonde ID No.	Time GMT	Lat. (°)	Long. (°)	Wind (~~m/s~~ KT) (WD/WS)	Height (GA)	Temp. (TA)	Dew Pt. (TD)	Pressure (PS)	Remarks
13	02473	014118	34° 59'	63° 53'	326/19.5	7788	-19.1	-30.9	390.3	GOOD
14	22478	020400	36 49	63 53	329/26.8	7763	-18.1	-35.4	390.5	PN100 mb TOO LOW NO WINDS
15	00136	023010	38° 51'	63° 19'	329/34	7733	-19.0	-32.2	390.5	GOOD
16	22478?	024914	40° 19'	62° 48'	319/40	7698	-16.6	-20.4	390.5	SAME ID AS 14 GOOD
17	01453	031618	42° 19'	62° 11'	304/53	7643	-17.8	-21.6	390.6	GOOD
18	20093	033900	42° 25'	64° 30'	313/53	8297	-23.4	-35.3	358.8	FAIL @ 720 mb NOT SENT
19	00205	040700	42° 28'	67° 22'	302/41	8318	-22.7	-38.9	358.9	

ID NO. 23381 ?

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 ODW 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 ODW's are on board the aircraft.

_____ 3. Complete the appropriate preflight calibrations and check lists.

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 AOC 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 ODW 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 ODW's.

_____ 2. Brief the on-board LPS on equipment status and turn in reports and completed forms to the LPS.

_____ 3. Hand-carry all ODW data tapes and printouts and inform the AOC 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.

_____ 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.

14

Form E-6

HRD Omega-Dropwindsonde Scientist Log

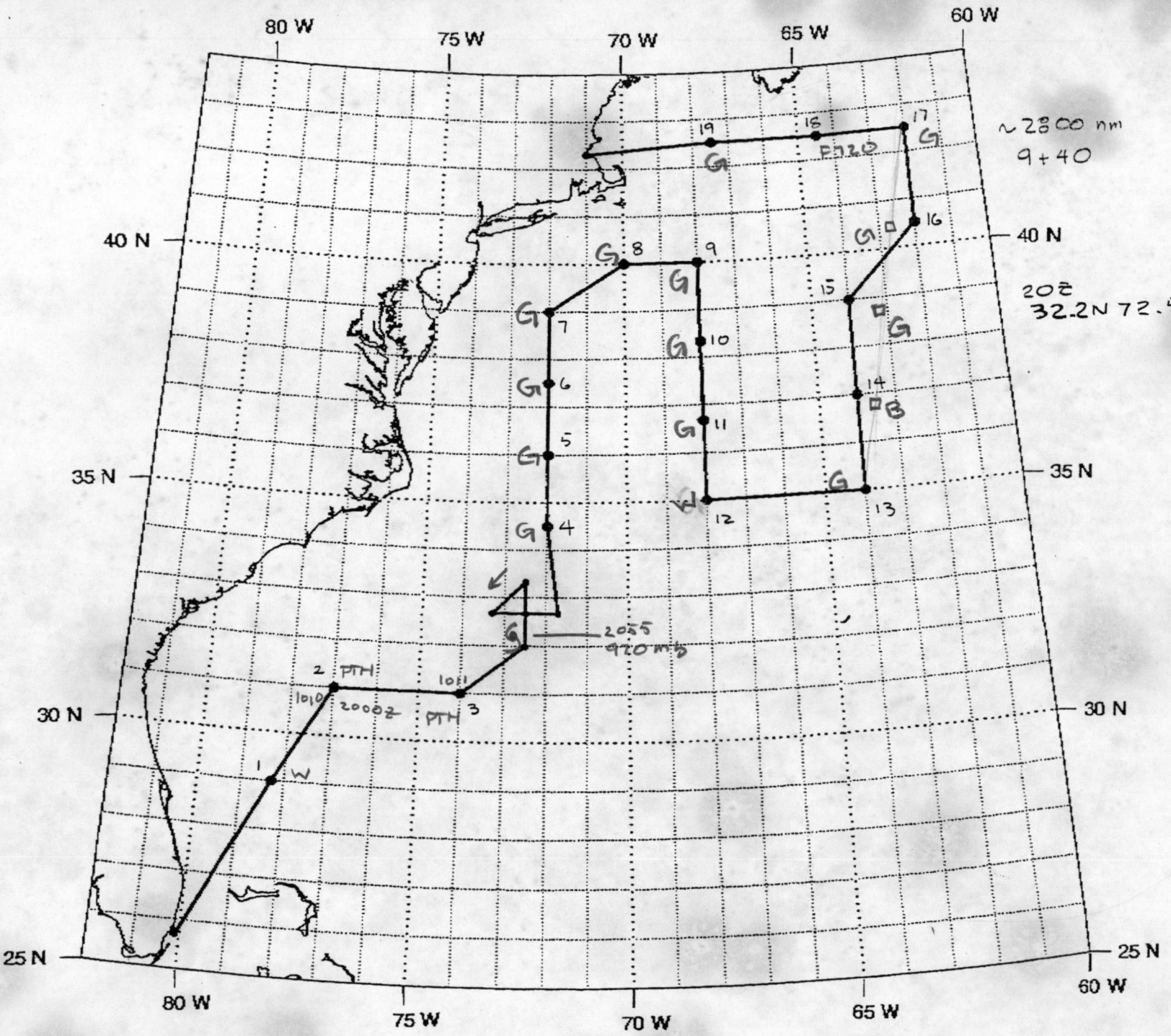
Flight 930830I

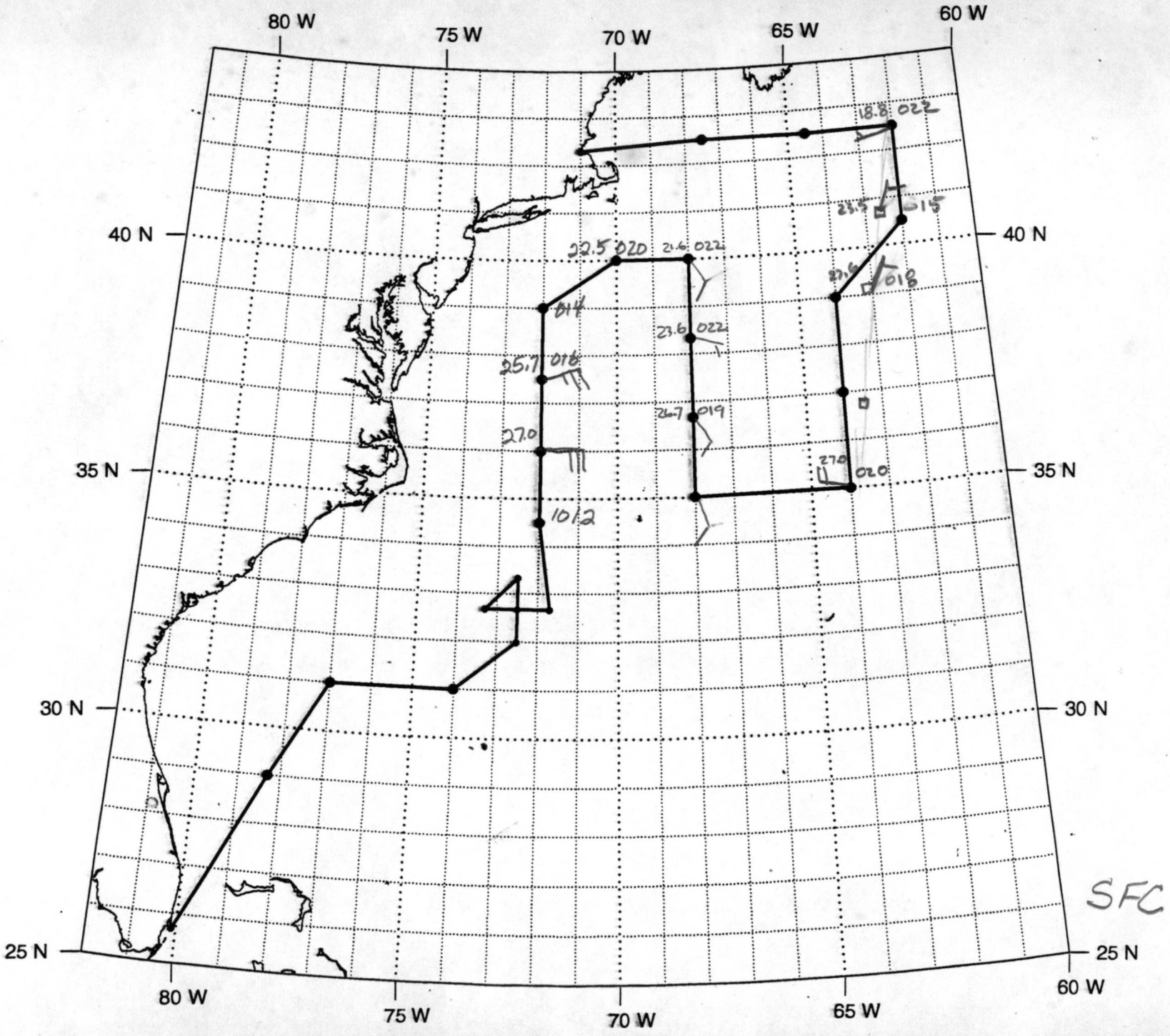
Storm Hurricane Emily

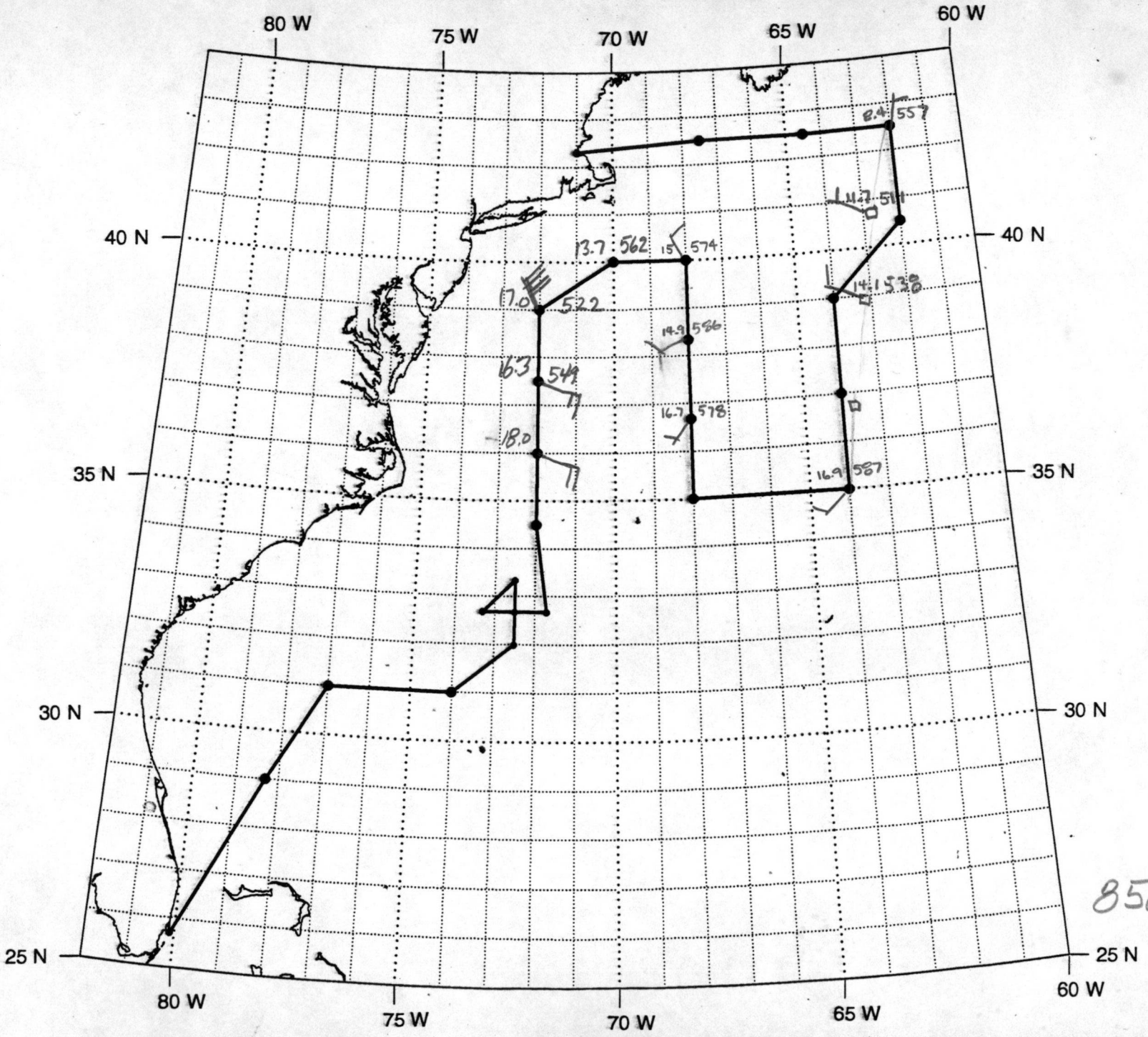
ODW Scientists Burpee
Willoughby

AOC Operator Goldstein, Bodas

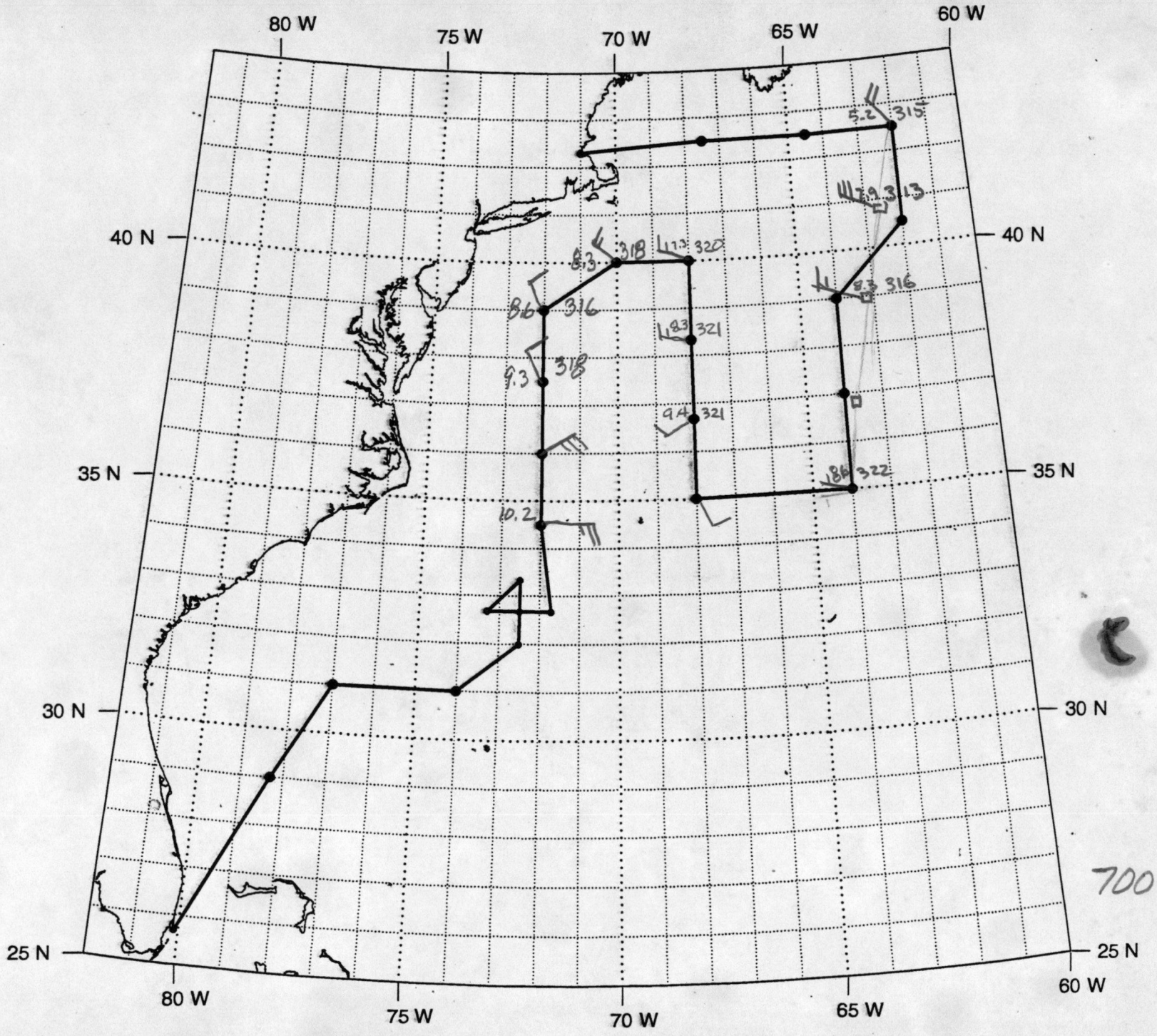
Drop No.	Sonde ID No.	Time GMT	Lat. (°)	Long. (°)	Wind ~~(m/s)~~ kts (WD/WS)	Height (GA)	Temp. (TA)	Dew Pt. (TD)	Pressure (PS)	Remarks
1	01543	193723	29°30'	77°58'	110/4	5402	-3.3	-17.1	526.6	Stuck in chute, bad T sonde p needs adjustment
2	20073	200003	31-00	76-54	055/12	5433	-4.4	-9.8	527.0	no winds SPL=1011
3	03611	203236	31-02	73-51	309/35	5827	-4.8	-10.4	499.3	bad winds SPL=1010
3A	LOD2	203304	31-03	7350	306/36	5826	-4.7	-10.2	499.3	LOD2
4	21391	223207	34-29	71-54	113/32	6401	-7.8	-15.7	464.2	GOOD
4A	LOD2	223226			113/31	6433	-7.6	-16.7	464.3	LOD2 - bad sonde
5	03612	225001	35-58	71-52	096/18	6451	-7.8	-16.3	464.2	Toffset
6	20089	230819	37-29	71-52	345/5.6	6469	-8.8	-15.1	464.3	GOOD
7	00187	232818	39-00	71-43	332/21	6460	-8.5	-15.1	464.3	GOOD
8	20090	234909	39-56	69-51	313/30	6748	-10.7	-16.0	445.1	GOOD
9	03162	000730	39-49	67-49	311/25	7077	-13.0	-27.8	426.8	GOOD
10	20134	002622	38°9'	67°46'	318/24	7108	-13.2	-28.3	426.7	GOOD
11	03614	004506	36°31'	67°45'	302/4	7115	-14.2	-27.8	426.6	GOOD
12	23359	010450	34°53'	67°36'	83/5	7125	-13.7	-29.9	426.8	WIND ONLY BELOW 600


80 W
75 W
70 W
65 W
60 W
40 N
35 N
30 N
25 N
~2800 nm
9+40
20Z
32.2N 72.5E
PTH
2055
970 mb
2 PTH
1011
1010
2000Z
PTH
3
1
W
SHIMKUS TEAL 16

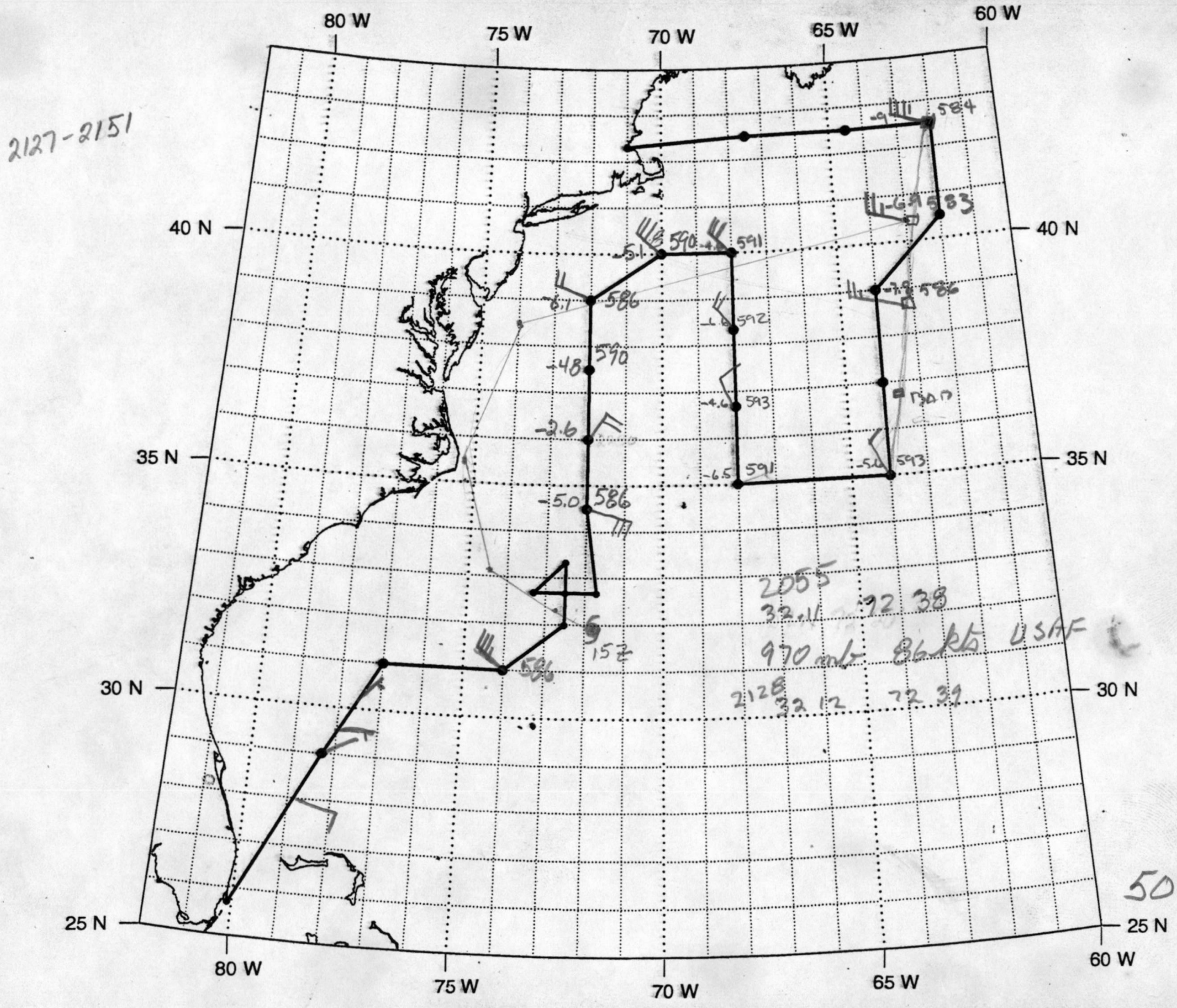

80 W
75 W
70 W
65 W
60 W
40 N
35 N
30 N
25 N
18.8 022
23.5 015
22.5 020
21.6 022
23.6 018
23.6 022
25.1 018
26.7 019
27.0
27.0 020
1012
SFC


80 W
75 W
70 W
65 W
60 W
40 N
35 N
30 N
25 N
8.4 557
14.7 511
13.7 562
15 574
17.0 522
14 538
14.9 586
16.3 549
16.7 578
18.0
16.9 587

850


80 W
75 W
70 W
65 W
60 W
40 N
35 N
30 N
25 N
5.2 315
7.9 313
8.3 318
11.3 320
8.3 316
8.6 316
11.3 321
9.3 318
9.4 321
8.6 322
10.2

700


80 W
75 W
70 W
65 W
60 W
40 N
35 N
30 N
25 N
584
583
590
591
586
592
590
593
586
591
593
586
2127-2151
2055
32.11 72 38
970 mb 86 kt USAF
2128
32 12 72 31
500