22 55 -4 2038

19890919I1_DROPS

→ [ODW system ~2 min slower than flight data time

FORM E-6

PAGE 1 OF 2

AOML / HRD
OMEGA-DROPWINDSONDE SCIENTIST LOG

FLIGHT: 890919 I

STORM: HUGO

ODW SCIENTISTS FRANKLIN, BURPEE
POWELL

OPERATOR LIND, GONZALEZ

DROP #	SONDE ID #	TIME GMT	LAT (°)	LON (°)	WIND (M/S) (WD/WS) kts	HEIGHT (GA)	TEMP (TA)	DEW PT. (TD)	PRESSURE (PS)	REMARKS
1	21404	1831	23 52	77 21	297/11	6075	-8.1	-14.3	486.5	
2	01565	1859	22 21	75 21	001/10	5439	-3.9	-5.3	527.7	Temp bad high rep. rdgs~560mbs, P, T, H, W bad
2A	10886	190329	22 06	75 03	347/06	5435	-3.1	-6.6	527.8	
3	20305	1928	20 50	73 34	338/11	6720	-11.3	-27.3	447.0	BAD T
3A	1563	1935	20 58	73 03	332/10	6711	-10.5	-26.3	447.0	
4	21489	1957	21 20	71 02	276/32	6690	-11.4	-14.3	447.5	
5	375	2009	21 31	69 53	303/35	6668	-9.6	-10.1	447.8	
6	20294	2027	22 00	68 40	252/38	6675	-8.9	-8.7	445.7	S of eye (20295 in post-proc)
7	1549	2056	23 25	69 09	064/67	6475	-6.9	-1.4	452.0	NW of eye (late)
8	21445	2104	23 07	69 30	349/65	6403	-7.4	-7.0	458.3	W of eye
9	10872	2114	22 59	68 56	269/12	6238	-1.5	-7.6	461.2	eye
				ODW SYSTEM FAILED ~2122 – had to restart						
				LOST part of #8 – fake deland 11111 – NO SONDE						
10	436	2137	22 59	66 48	185/44	6712	-14.6	-11.9	446.4	
11	21384	2144	23 07	66 18	188/41	6734	-14.5	-19.8	446.4	
12	01562	2207	25 11	67 02	144/36	7094	-10.9	-13.8	426.7	
13	20671	2230	27 06	67 22	124/20	7114	-12.8	-13.4	426.6	
14	01564	2254	29 08	67 47	179/06	7102	-13.6	-21.3	428.1	
15	20611	2317	30 56	68 16	183/07	7352	-18.5	-26.6	413.3	
16	418	2336	30 51	70 08	006/05	7742	-18.2	-37.6	392.5	

_____ 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

AOML / HRD
OMEGA-DROPWINDSONDE SCIENTIST LOG

FLIGHT: 890914I

STORM: HUGO

ODW SCIENTISTS: FRANKLIN
GAMACHE
BURPEE
SUROI

OPERATOR

knots

DROP #	SONDE ID #	TIME GMT	LAT (°)	LON (°)	WIND (M/S) (WD/WS)	HEIGHT (GA)	TEMP (TA)	DEW PT. (TD)	PRESSURE (PS)	REMARKS
17	21420	0000	28°57'	70°47'	95/16	7750	-16.5	-26.0	392.5	
18	00420	0026	28°58'	71°30'	089/20	7739	-15.3	-20.7	392.4	No temperatures
18A	10167	0029	28°41'	71°35'	075/22	7735	-16.8	-18.5	392.5	
19	21423	0044	25°31'	72°7'	067/30	7724	-16.2	-15.4	392.6	
20	00422	0106	25°39'	74°4'	078/19	8044	-18.2	-22.9	376.6	
21	21421	0123	27°04'	74°24'	086/16	8050	-18.8	-24.2	376.5	
22	00423	0147	29°16'	75°11'	158/23	8401	-21.8	-29.2	359.1	
22A	10870	0150	29°26'	75°20'	164/27	8405	-21.6	-29.2	359.3	
23	21424	0209	30°59'	76°08'	172/34	8401	-22.1	-22.3	359.1	
24	00424	0228	30°57'	78°01'	167/43	8365	-22.6	-30.6	359.0	Computer Down @0244 (ODW) Sonde AT 644mb
						8353	-23.9		359.	

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.

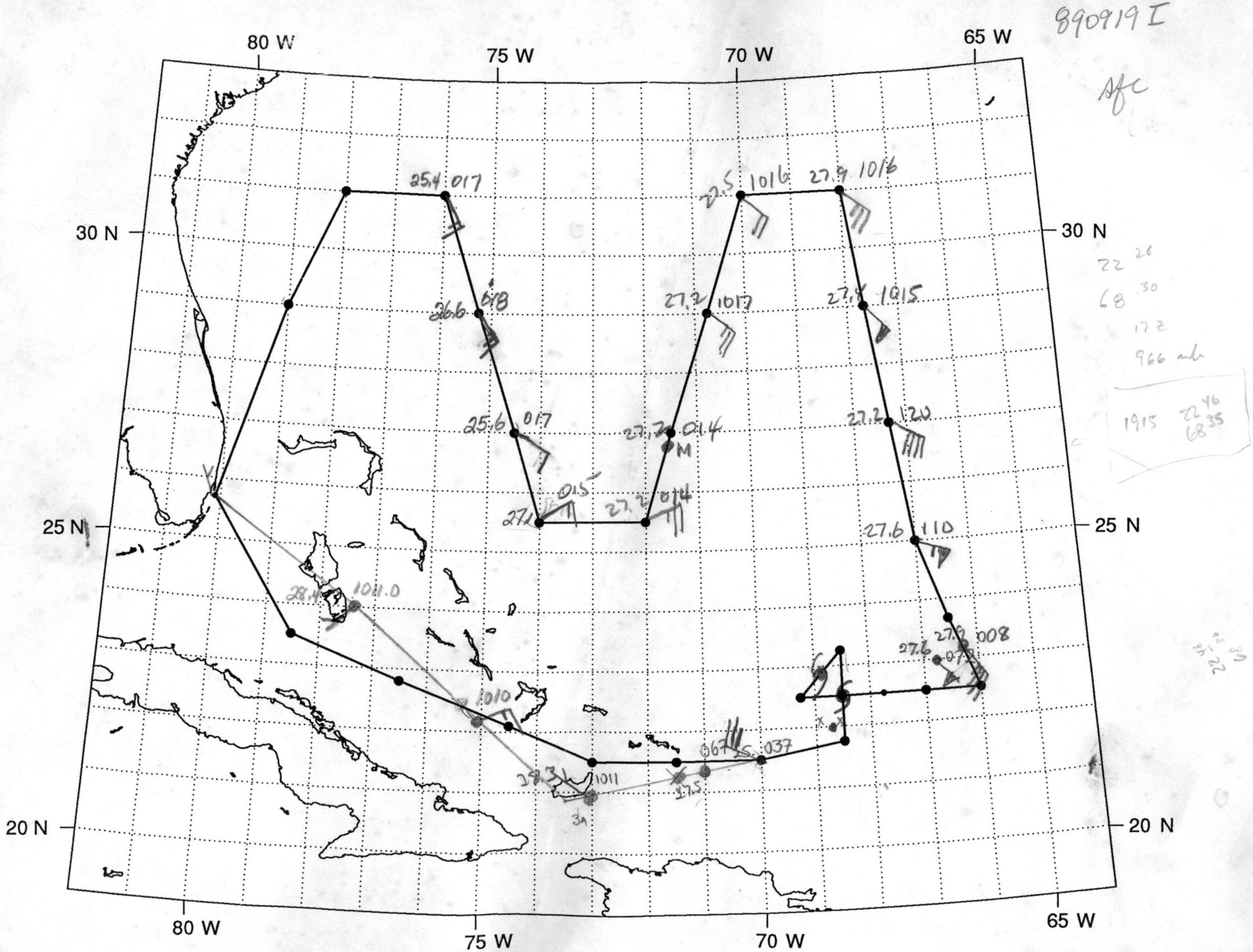
E.6.3 Postflight

_____ 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.

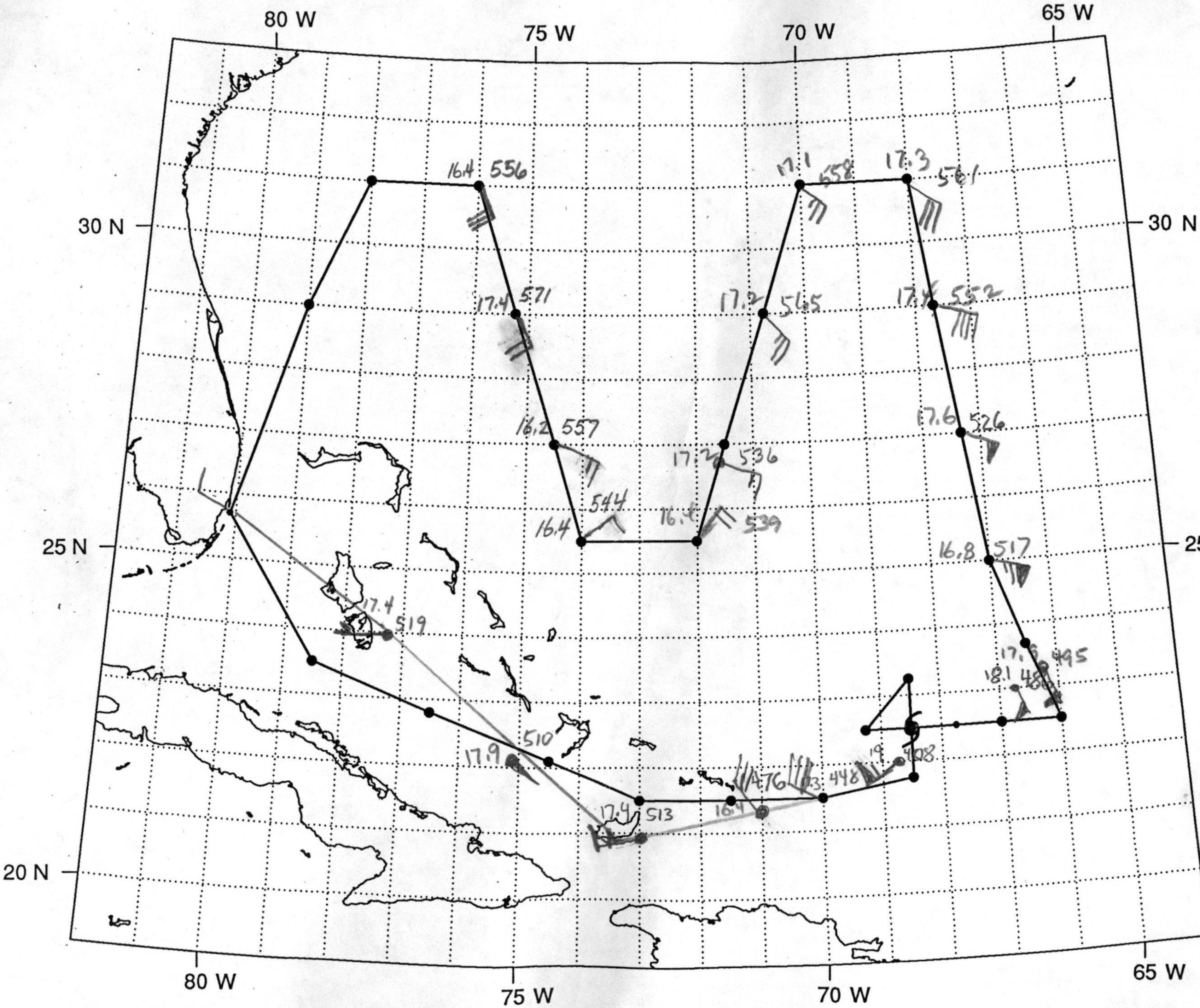
_____ 3. Hand-carry all dropwindsonde data tapes and printouts and inform the OAO/Flight Director that you are arranging delivery as follows:

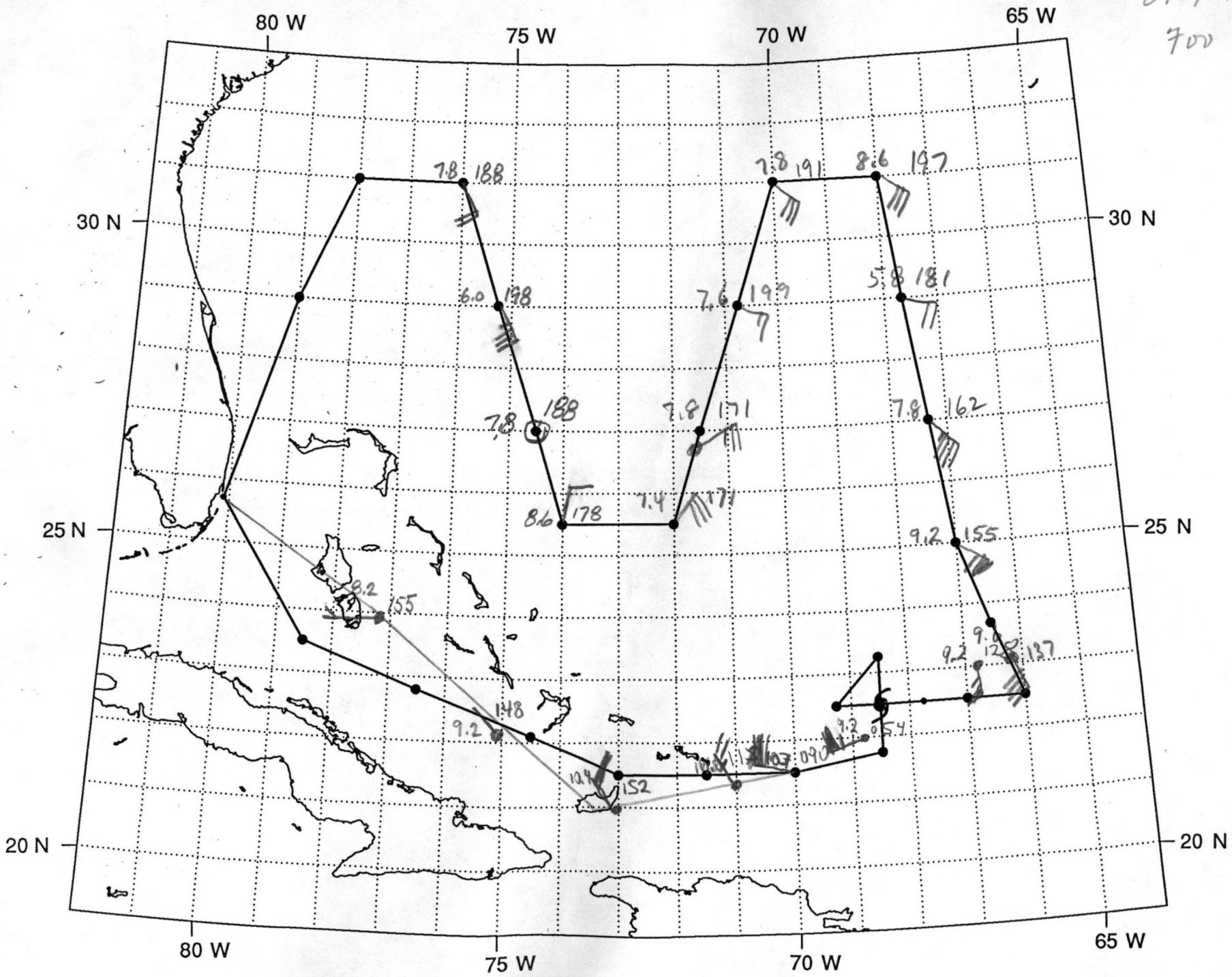
a. Outside of Miami - to the HRD operations center (FGOC).
b. In Miami - to AOML/HRD (temporarily), either directly or via MGOC, for conversion to 9-track magnetic tapes.


890919 I
Sfc
80 W
75 W
70 W
65 W
30 N
25 N
20 N
80 W
75 W
70 W
65 W

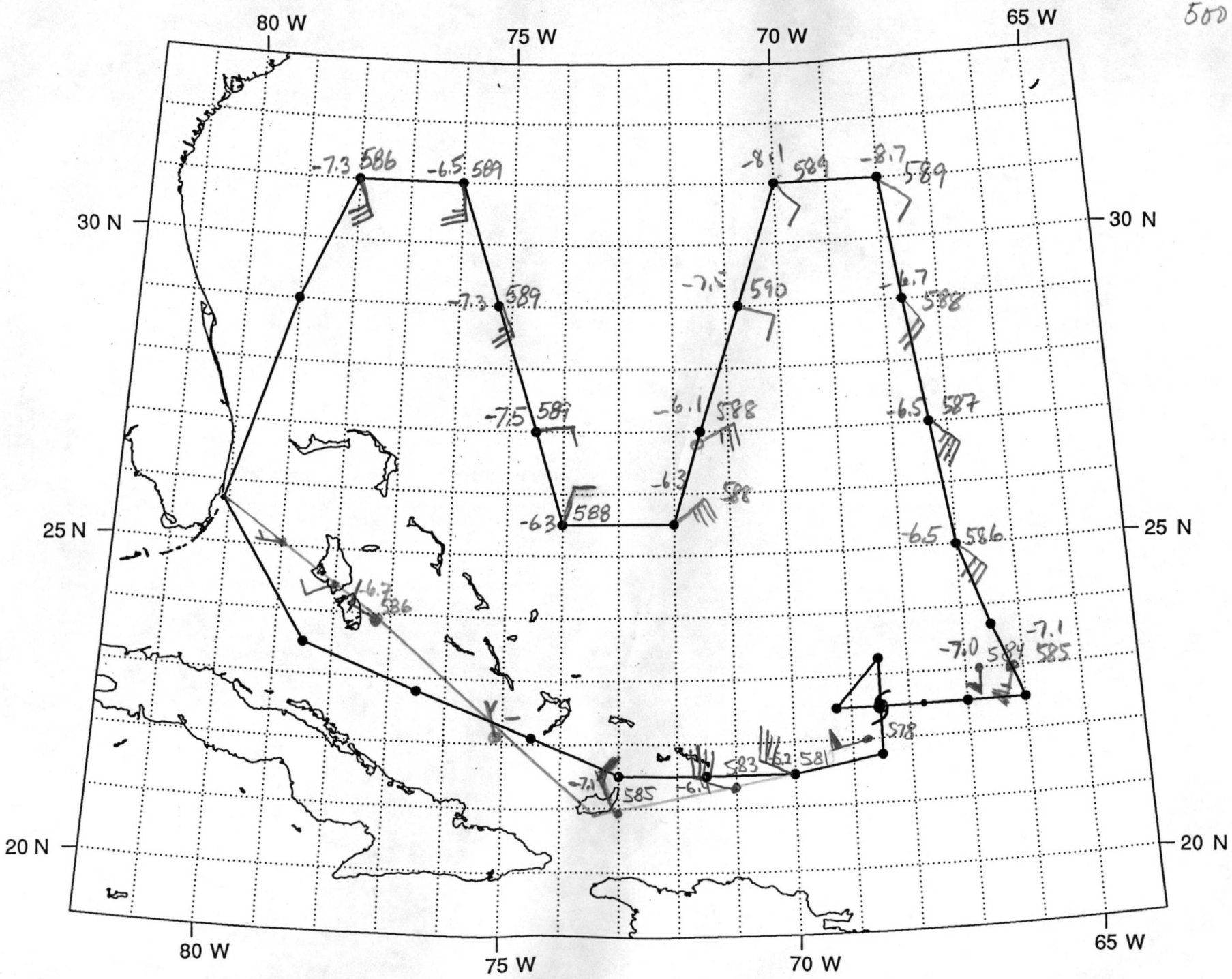
890919I

850

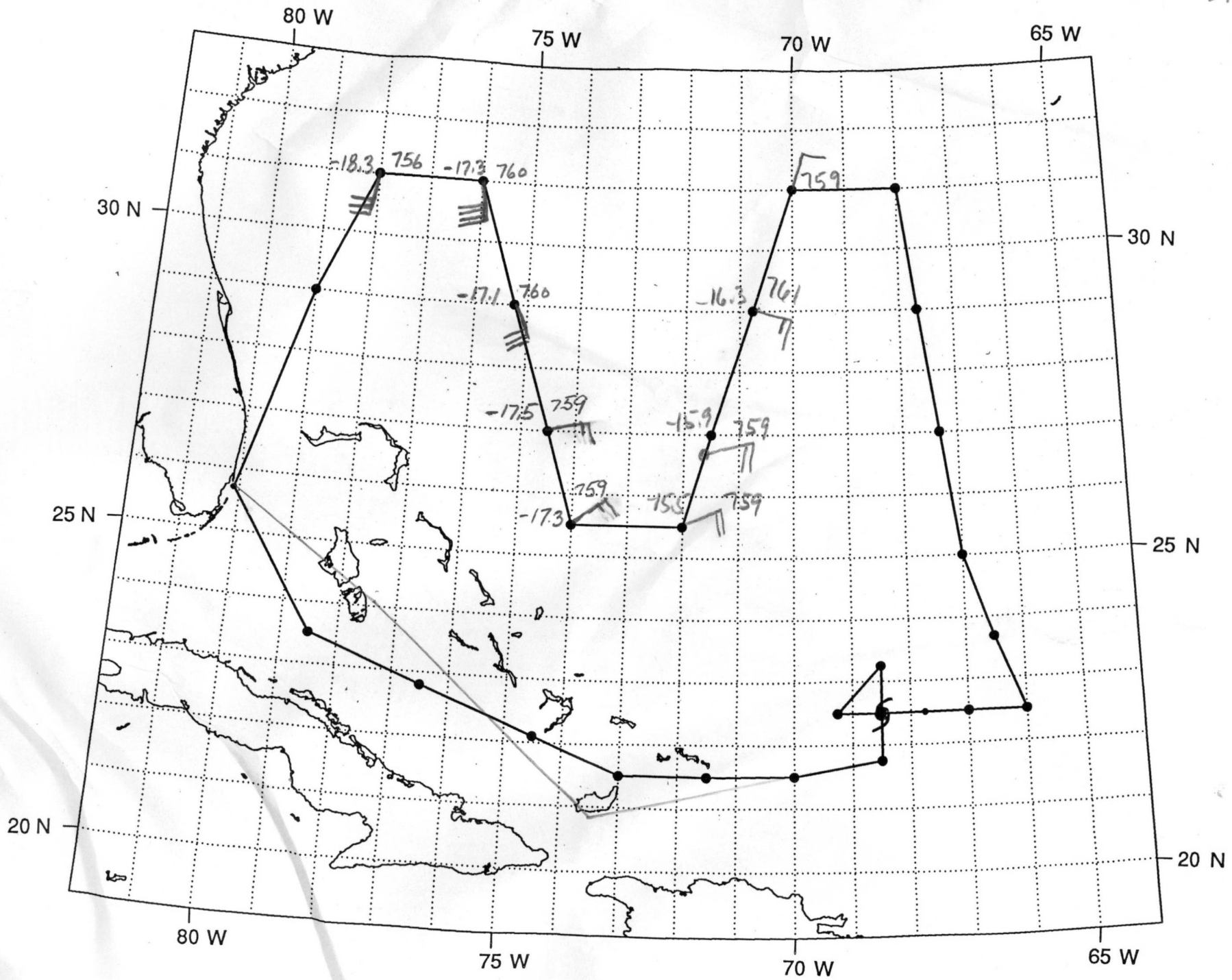

80 W
75 W
70 W
65 W
30 N
25 N
20 N
16.4 556
17.1 558
17.3 561
17.4 571
17.2 565
17.4 552
16.2 557
17.6 526
17.2 536
16.4 544
16.4 539
16.8 517
17.4 519
17.6 495
18.1
510
17.9
19 408
476
448
17.4 513
16.4


B90919I
700
80 W
75 W
70 W
65 W
30 N
25 N
20 N
7.8 188
6.0 198
7.8 188
8.6 178
7.8 191
7.6 199
7.8 171
7.4 177
8.6 197
5.8 181
7.8 162
9.2 155
9.2 155
9.2 148
10.4 152
9.2 154
9.2 137

890919I
500


80 W
75 W
70 W
65 W
30 N
25 N
20 N
-7.3 586
-6.5 589
-8.1 589
-8.7 589
-7.3 589
-7.5 590
-6.7 588
-7.5 589
-6.1 588
-6.5 587
-6.3 588
-6.3 588
-6.5 586
-6.7 586
-7.1 585
-7.0 584
578
583
-6.2 581
-7.1 585
-6.1

890919I
405


80 W
75 W
70 W
65 W
30 N
25 N
20 N
-18.3 756
-17.3 760
759
-17.1 760
-16.3 761
-17.5 759
-15.9 759
759
-17.3
759
759

Track distance table (nm) File: HUG1PI.DAT

#		LAT	LON	LEG	TOTAL	TIME	
0		25 42	80 06	0.	0.	0:00	
1		23 30	78 30	158.	158.	0:33	
2		21 30	73 00	328.	486.	1:41	
3		21 30	70 00	168.	654.	2:15	
4	*	21 45	68 30	85.	739.	2:33	40 S
5E	*	22 30	68 30	45.	784.	2:42	E
6	*	23 15	68 30	45.	829.	2:51	40 N
7	*	22 30	69 15	61.	890.	3:04	40 W
8E	*	22 30	68 30	42.	932.	3:13	E
9	*	22 30	67 45	42.	973.	3:21	40 E
10		22 30	66 00	97.	1070.	3:41	
11		25 00	67 00	160.	1230.	4:15	
12		31 00	68 00	364.	1594.	5:30	
13		31 00	70 00	103.	1697.	5:51	
14		25 30	72 00	347.	2044.	7:03	
15		25 30	74 00	108.	2152.	7:25	
16		31 00	76 00	347.	2499.	8:37	
17		31 00	78 00	103.	2602.	8:58	
18		29 00	79 00	131.	2733.	9:25	
19		25 42	80 06	207.	2939.	10:08	

ODW drop locations File: HUG1PI.DAT

#	LAT	LON	TIME
1	23 30	78 30	0:33
2	22 48	76 30	0:57
3	22 06	74 30	1:22
4	21 30	73 00	1:41
5	21 30	71 30	1:58
6	21 30	70 00	2:15
7	21 45	68 30	2:33
8	23 15	68 30	2:51
9	22 30	69 15	3:04
10E	22 30	68 30	3:13
11	22 30	67 00	3:30
12	22 30	66 00	3:41
13	23 40	66 30	3:57
14	25 00	67 00	4:15
15	27 00	67 20	4:40
16	29 00	67 40	5:05
17	31 00	68 00	5:30
18	31 00	70 00	5:51
19	29 00	70 45	6:17
20	27 00	71 30	6:43
21	25 30	72 00	7:03
22	25 30	74 00	7:25
23	27 00	74 30	7:45
24	29 00	75 15	8:11
25	31 00	76 00	8:37
26	31 00	78 00	8:58
27	29 00	79 00	9:25