

19980919H1 DROPS

0011 15 42.9 54 59.5  
0040 15 42.9 55 05.7  
0112 15 46.3 55 14.4

### HRD Dropwindsonde Scientist Log (Revised 7/98)

Storm GEORGES  
Flight ID 980919H  
Mission ID WX07A GEORGES

Dropsonde Scientist(s) Aberson/Gamache  
AVAPS Operator(s) Carpenter

Page 1 of 2  
Takeoff 175220 UTC  
Landing 0230 UTC

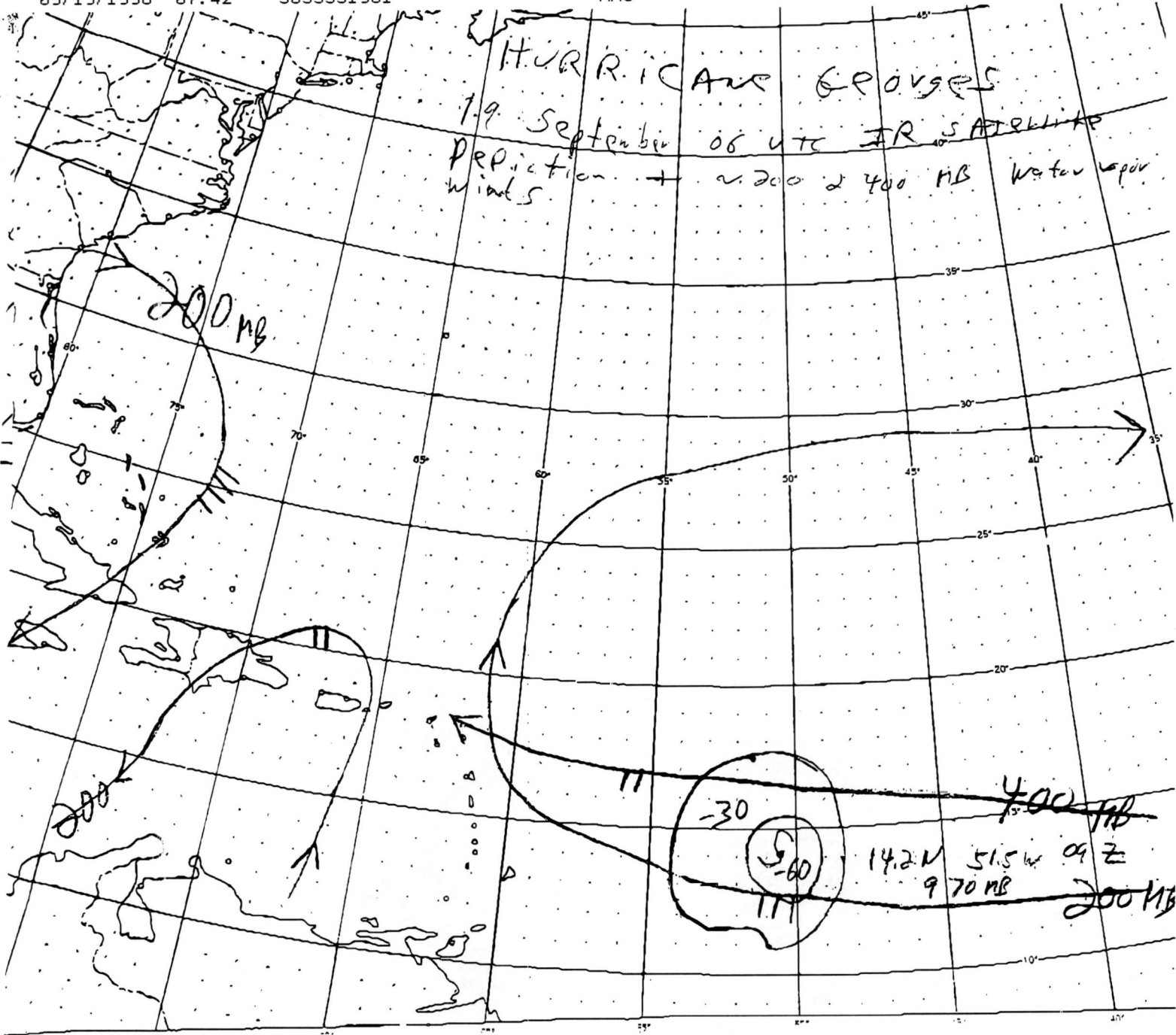
Drop #	Sonde ID	Time (UTC)	Lat (°)	Lon (°)	Press (mb)	GAIt (m)	T (°C)	TD (°C)	WDWS (kt)	Comments	Prc ?	Xmt ?	
1	981830006	183930	10.0	5751'	525	5513	-2.4	-25	030/18	65/9 kts 10m	✓	✓	05
2	981820019	190648	10°0'	5848'	525.8	5473	-2.8	-17.5	015/12	Sonde did after 90sec.	✓	✓	08
3	981810010	193338	10°0'	5836'	527.7	5464	-4.0	-15.1	007/4	175/6 kts surface	✓	✓	011
4	981820064	200104	10°5'	5122'	506.3	5790	-5.1	-14.1	205/6	(-4.0 mb) bias suggested 165/14 kts sfc	✓	✓	014
5	981810044	202215	10°40'	4943'	484.6	6145	-5.8	-24.4	165/10	140/10 kts sfc	✓	✓	017
6	973910057	203815	11°10'	4829'	484.9	6147	-5.8	-25.7	192/9	115/09 kts	✓	✓	018
7	974730120	205732	11°49'	4701'	485.3	6148	-6.6	-22.2	115/7	081/13 kts	✓	✓	021
8	981820066	211750	13°30'	471'	465.9	6468	-9.0	-16.5	123/19	110/12 kts	✓	✓	023
9	974510038	213918	15°15'	470'	466.3	6470	-8.7	-16.6	077/8	110/12 kts	✓	✓	025
10	981820038	220212	17°1'	4705'	466.5	6474	-8.5	-31.3	067/14	092/15 kts	✓	✓	028
11	981820035	222418	17°00'	4901'	466.1	6480	-8.8	-16.4	108/19	110/17 kts	✓	✓	030
12	981820067	225438	15°28'	5039'	445.4	6845	-6.2	-21.3	155/27	135/25 kts	✓	✓	034
13	981810045	230425	14°46'	5101'	427.1	7136	-10.3	-33.2	183/28	143/25 kts	✓	✓	035
14	982630075	231455	14°5'	5106'	427.2	7135	-10.2	-33.4	189/26	"	✓	✓	037
15	982720276	232850	14°2'	5216'						GPS acquisition slow	✓	✓	039
16	981750011	232959	14°3'	52022'						Backup, not much data, no wind	✓	✓	040
17	982640216	233825	14°3'	5302'						rainband MBL68 SFC49	✓	✓	041
18	981750008	0000304	15°25'	5424'						rainband	✓	✓	045

500 -11 239 246 72/4 m/s  
610 45 -22 132 -999



# HURRICANE GEORGES

19 September 06 UTC IR SATELLITE  
Prediction → 200 & 400 MB water vapor  
winds



ZCZC MIATCDAT2  
TTAA00 KNHC 190845  
HURRICANE GEORGES DISCUSSION NUMBER 16  
NATIONAL WEATHER SERVICE MIAMI FL  
5 AM EDT SAT SEP 19 1998

DVORAK T-NUMBERS ARE STILL 5.0...SO 90 KT REMAINS THE ESTIMATED WIND SPEED. IT APPEARS...THE HURRICANE HAS UNDERGONE SOME EYE STRUCTURE CHANGES AS REFLECTED IN THE SSM/I SATELLITE IMAGERY DURING THE PAST 12 HRS AND THE EYE DIAMETER IS NOW MUCH LARGER. THE SYSTEM MAY BE ADJUSTING ITS HORIZONTAL WIND FIELD...A SHIP LOCATED ABOUT 175 NMI MILES NORTH OF THE CENTER REPORTED 40 KTS AND 16 FOOT SEAS AT 00Z. HOWEVER...THE CONDITIONS FOR ADDITIONAL STRENGTHENING ARE STILL PRESENT AND THE FORECAST CALLS FOR THIS.

THE HEADING IS 280/16 KT WHICH IS A DECREASE FROM 24 HOURS AGO WHERE IT WAS 275/20 KT. THIS SUGGESTS THAT THE BASIC CURRENT WHICH IS DEPENDENT ON THE RIDGE TO THE NORTH IS DECREASING WHICH ALSO SUGGESTS THAT THE RIDGE TO THE NORTH IS NOT AS STRONG AS IT WAS 24 HOURS AGO. WHILE THE RIDGE TO THE NORTH IS FORECAST TO HOLD THROUGH THE FORECAST PERIOD...SOME ADDITIONAL NORTHWARD COMPONENT IN THE TRACK COULD OCCUR. THE TRACK MODELS SHOW A LARGE DIVERGENCE ON EITHER SIDE OF THE OFFICIAL EXTRAPOLATED FORECAST TRACK AND THE GFDL FORECAST TRACK. NOGAPS...UKMET...AND AVN TO THE NORTH AND BAM MODELS AND A98 TO THE SOUTH. THE OFFICIAL FORECAST IS SIMILAR TO THE PREVIOUS ONE BUT SLIGHTLY NORTH AT THE 48 AND 72 HOUR FORECAST POSITIONS. BASED ON THIS A HURRICANE WARNING WILL BECOME NECESSARY LATER THIS MORNING FOR ALL OR A PORTION OF THE WATCH AREA.

INTERESTS IN THE CARIBBEAN SHOULD NOT FOCUS ON THE EXACT NHC FORECAST TRACK FOR TWO REASONS. FIRST...THE AVERAGE NHC TRACK ERROR FOR A 48 HOUR FORECAST IS AROUND 200 MILES. SECOND...THE HURRICANE IS NOT A POINT. GEORGES IS LIKELY TO AFFECT AN AREA SEVERAL HUNDRED MILES ACROSS. ALL AREAS WITHIN THE HURRICANE WATCH ARE POTENTIAL TARGETS OF HURRICANE FORCE WINDS OVER THE WEEKEND.

THE 34 KT WIND RADII HAVE BEEN ADJUSTED SLIGHTLY BASED ON ANALYSIS OF SSM/I DATA MADE BY THE AIR FORCE WEATHER AGENCY AND THE SHIP OBSERVATION AT 00Z.

JARVINEN

FORECAST POSITIONS AND MAX WINDS

INITIAL	19/0900Z	14.2N	51.5W	90 KTS
12HR VT	19/1800Z	14.7N	54.1W	95 KTS
24HR VT	20/0600Z	15.2N	57.4W	100 KTS
36HR VT	20/1800Z	15.6N	60.7W	105 KTS
48HR VT	21/0600Z	16.2N	63.6W	110 KTS
72HR VT	22/0600Z	17.0N	69.0W	115 KTS

NNNN

GEORGES 19/06Z

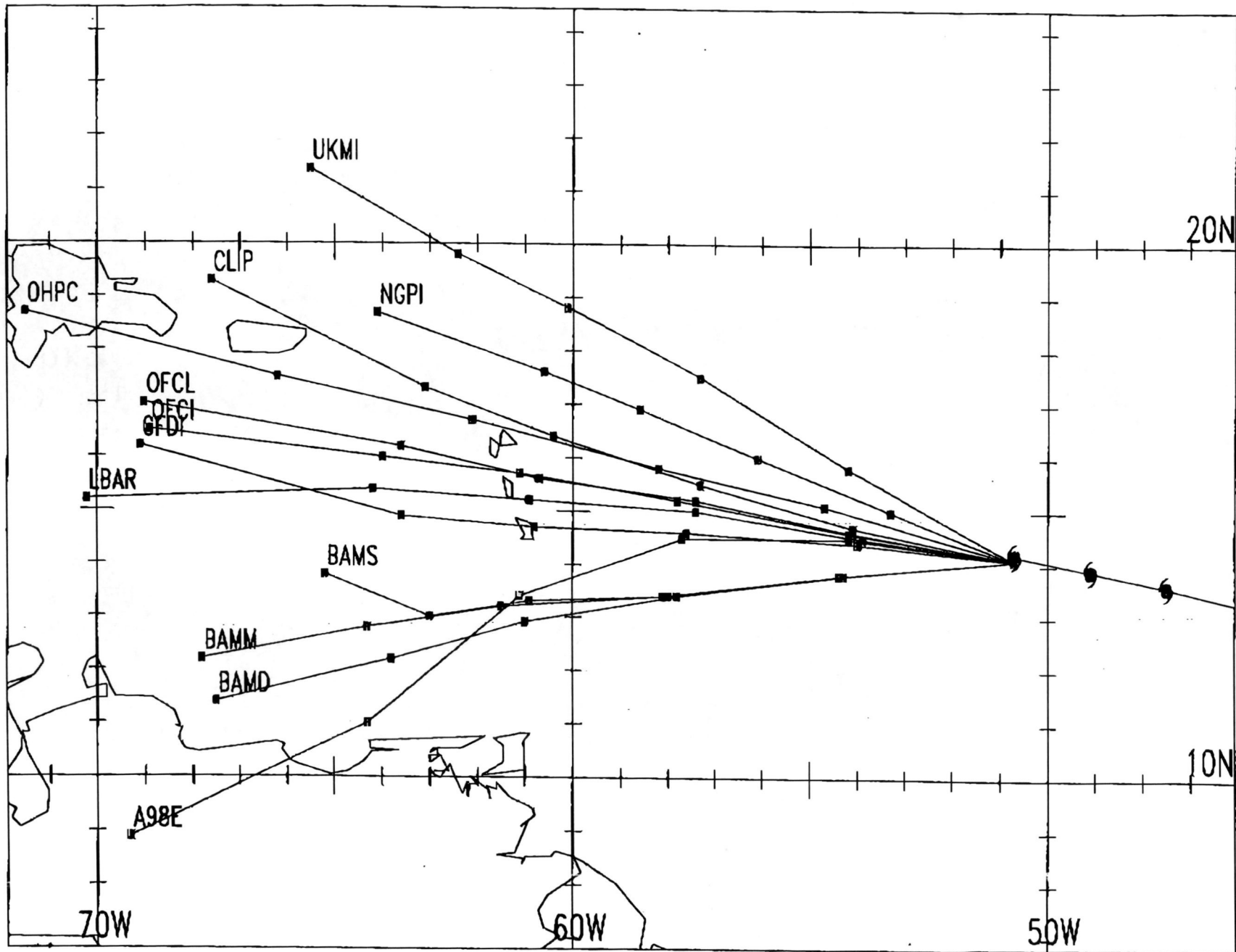
PAGE 03

NHC

3055531901

07:42

09/19/1998



NOAA42

400mb

70°

65°

60°

55°

50°

70°

65°

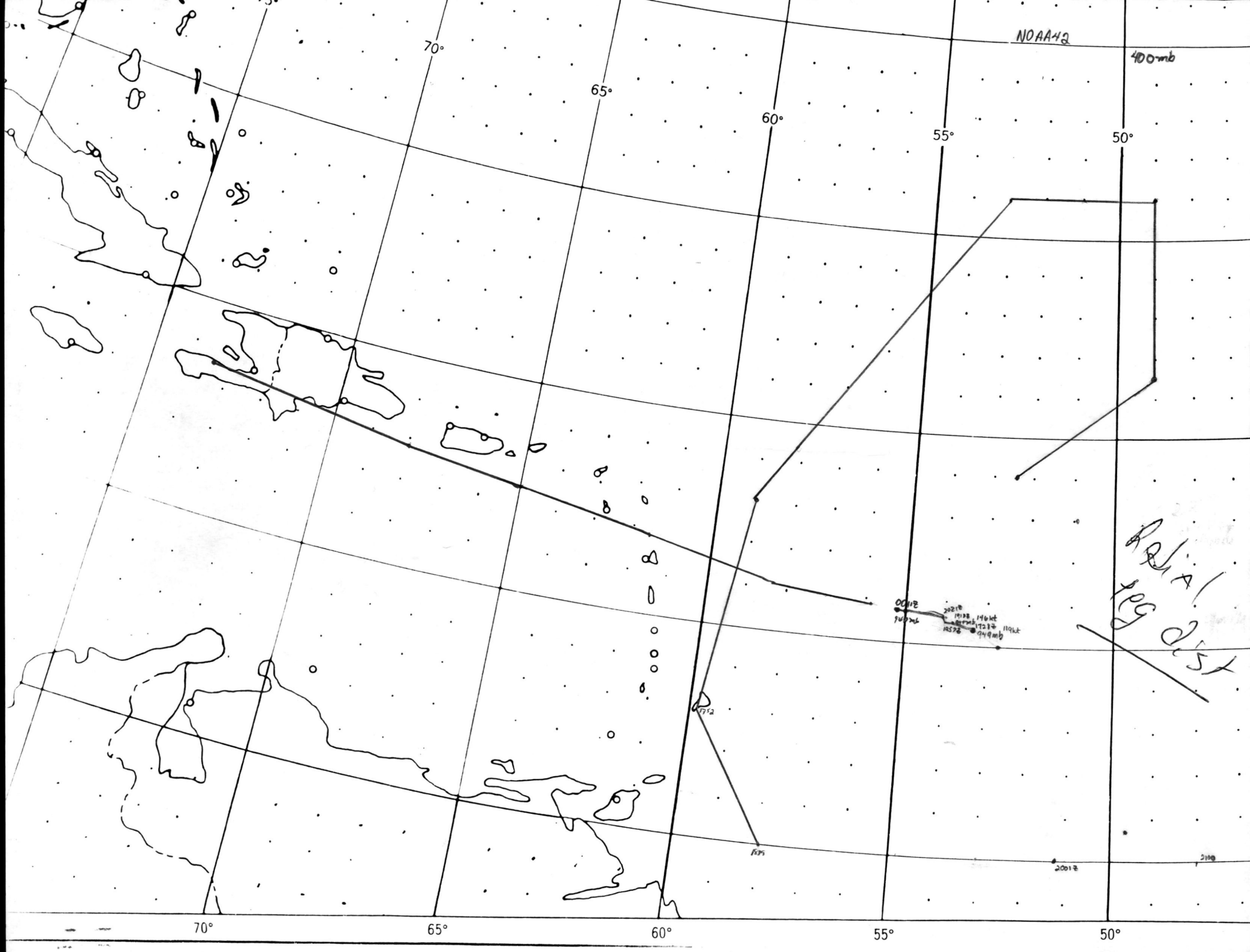
60°

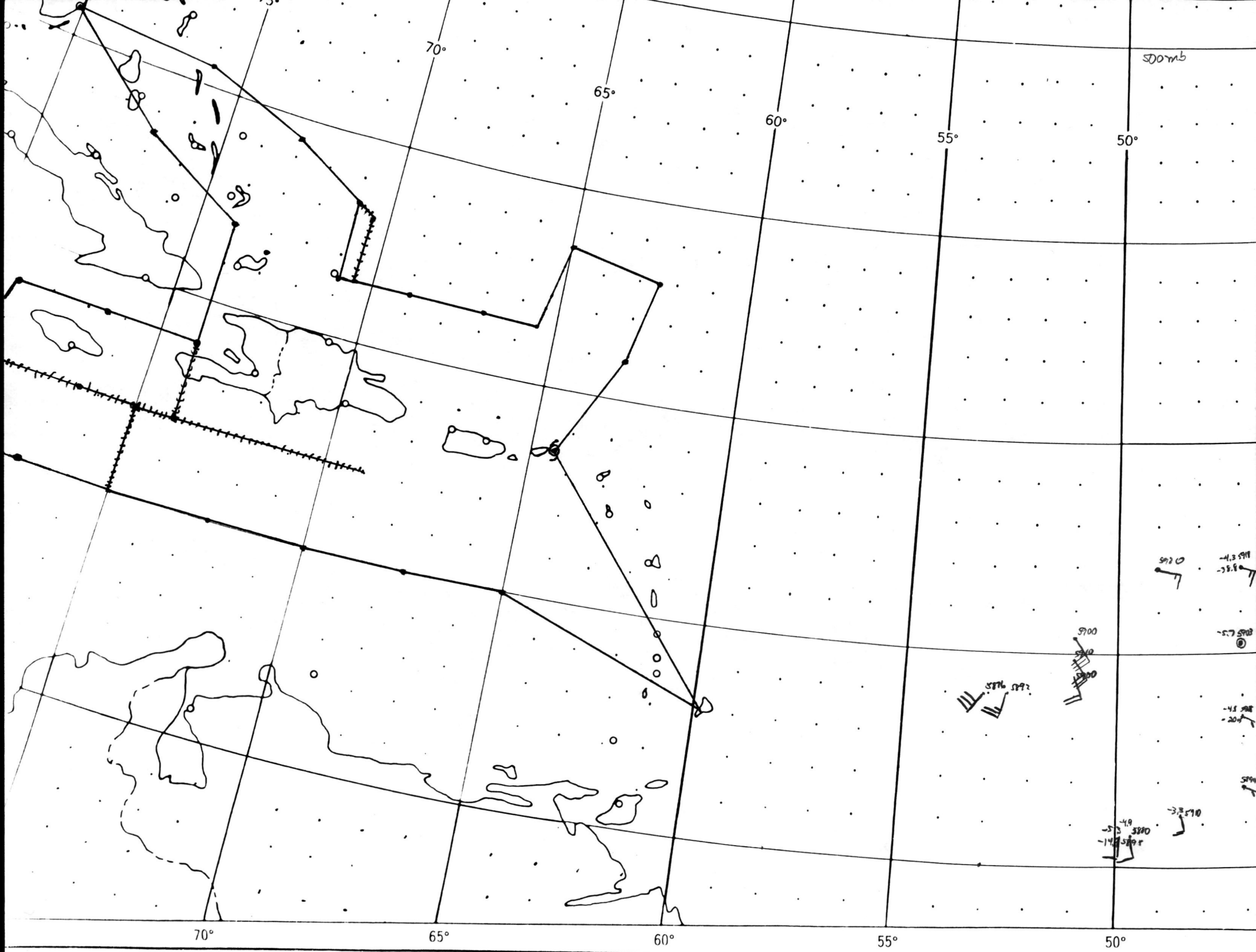
55°

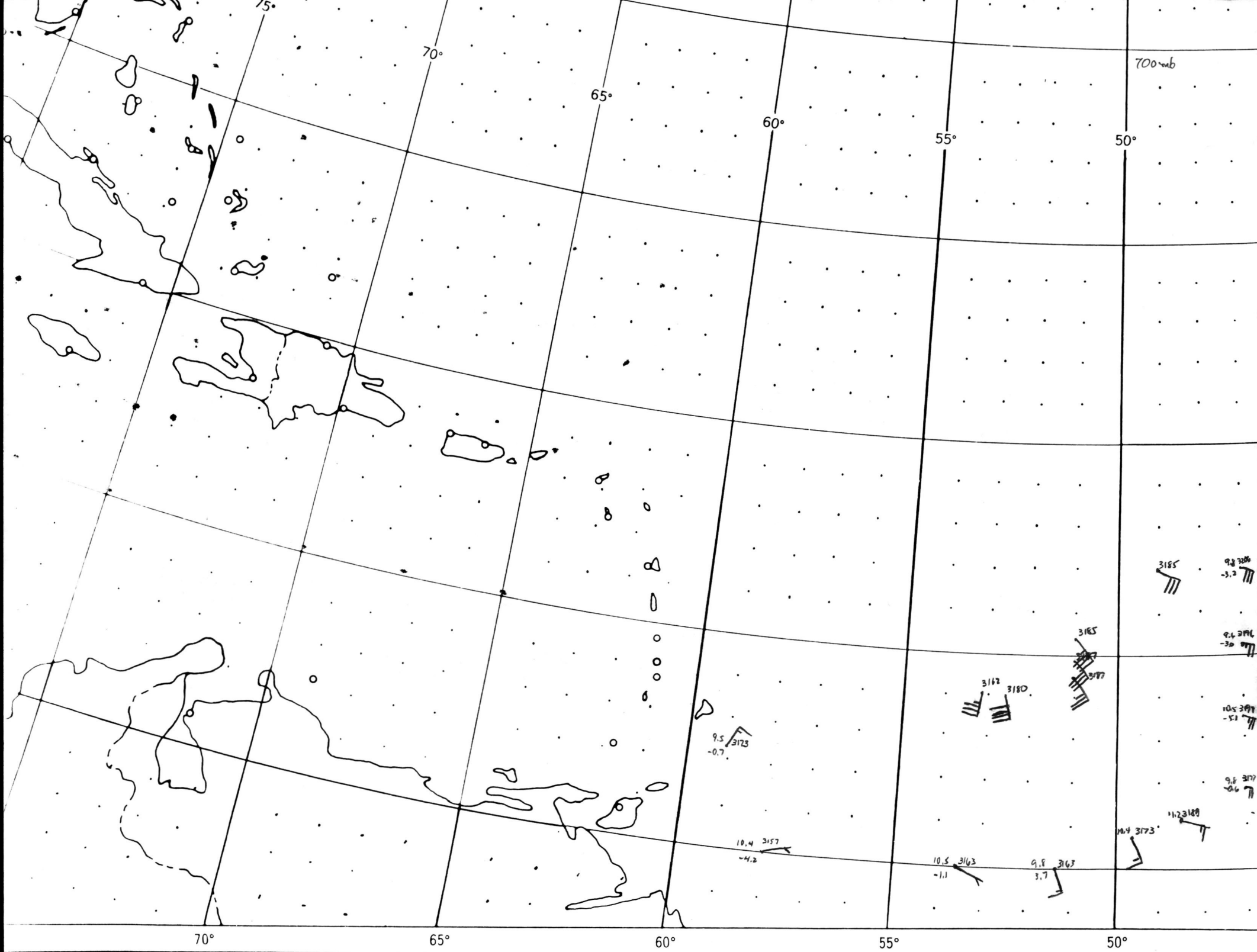
50°

ARIAL  
leg dist

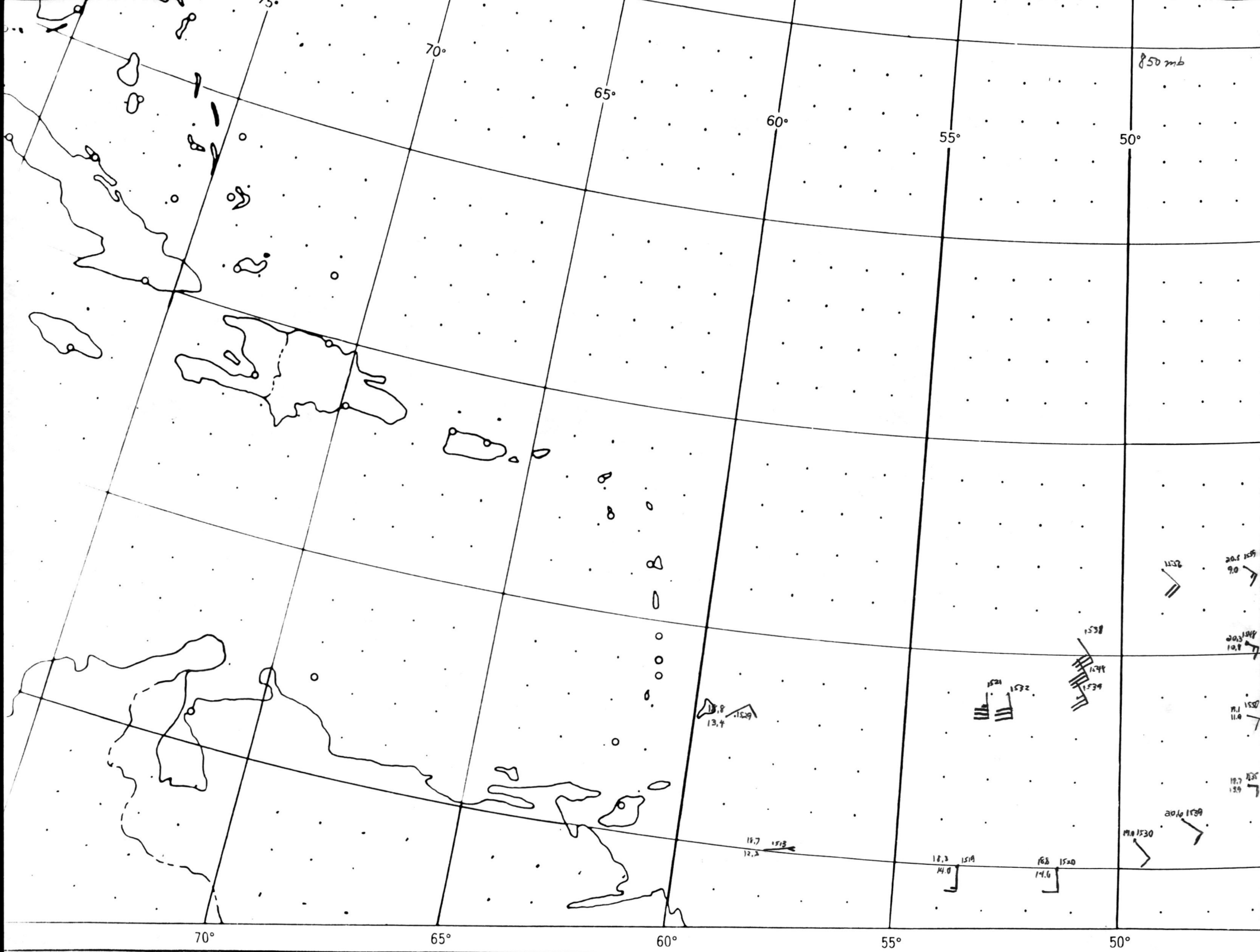
2021  
1918 1964  
1971 1972 1973  
1978 1979

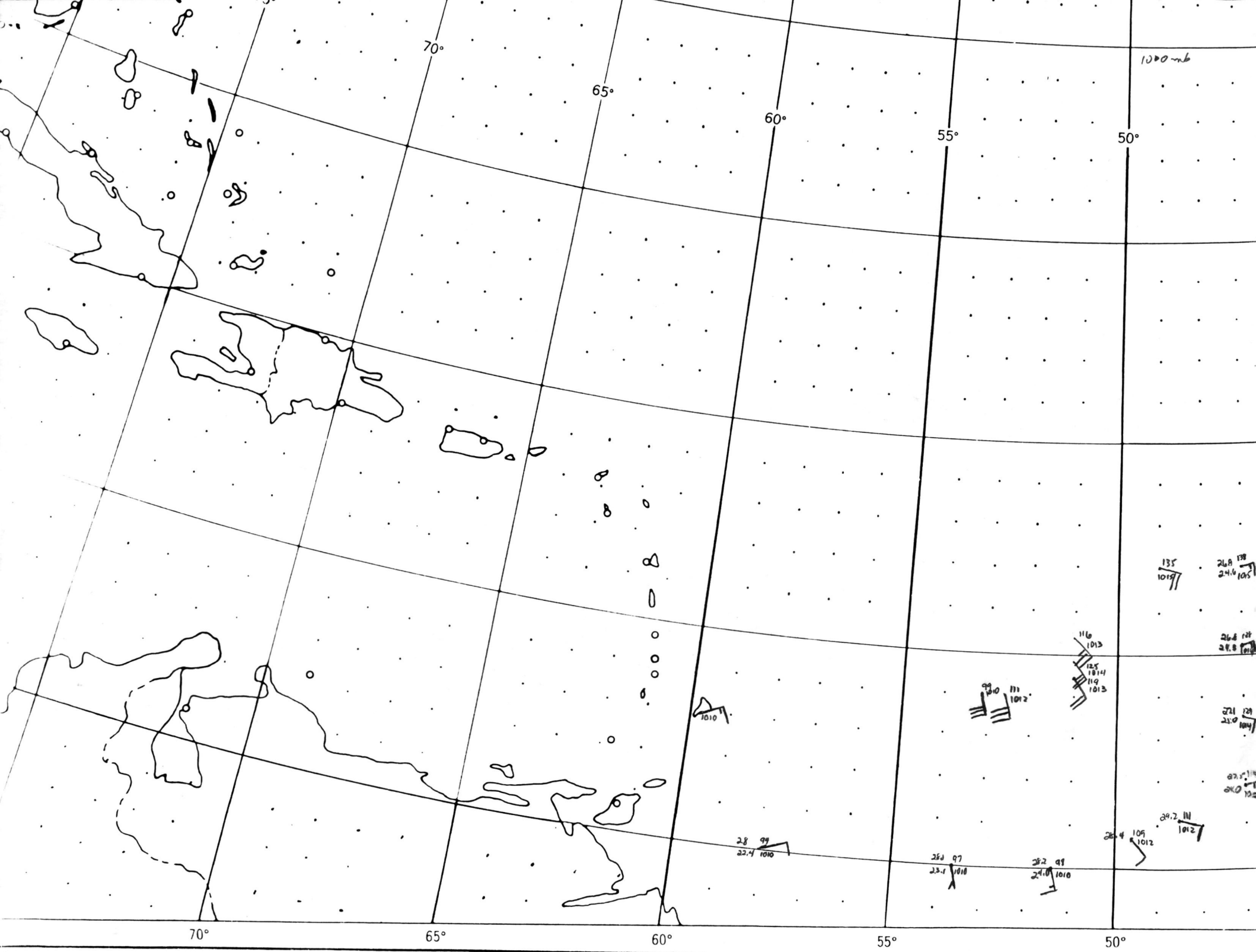


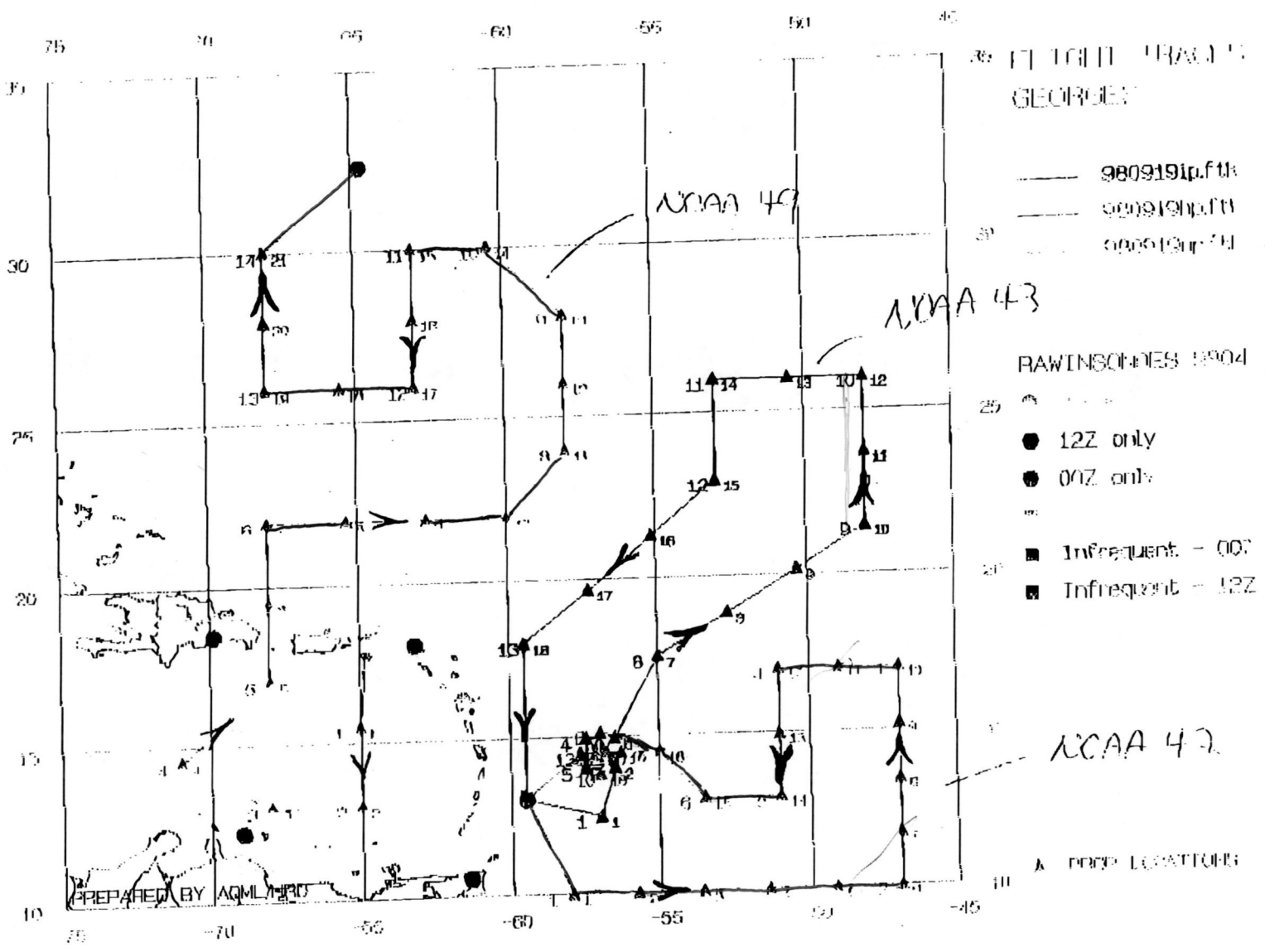












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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: GEORGES

Prepared by the Hurricane Research Division at 03:29:47 PM on 09/18/98.  
 File: /home/hrd/flight\_tracks/980919hp.ftk

Aircraft: N42RF Altitude: FL180-250 Proposed takeoff: 19/1730Z

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TRACK DISTANCE TABLE (nm)

#	LAT	LON	LEG	TOTAL	TIME
0	BARBADOS		0.	0.	0:00
1	10 00	58 00	204.	204.	0:52
2	10 00	47 00	651.	855.	3:07
3	17 00	47 00	421.	1276.	4:34
4	17 00	51 00	230.	1506.	5:22
5	13 00	51 00	240.	1746.	6:11
6	13 00	53 30	146.	1892.	6:42
7	14 30	55 00	126.	2018.	7:08
8S	15 10	57 00	123.	2141.	7:33
9S	14 30	57 00	40.	2181.	7:41
10S	13 50	57 00	40.	2221.	7:50
11S	14 30	56 19	57.	2278.	8:01
12S	14 30	57 00	40.	2318.	8:10
13S	14 30	57 41	40.	2358.	8:18
14	BARBADOS		136.	2494.	8:56

40 N 2N  
 eye  
 40 S additional sonder 1S  
 40 E 1E  
 eye +  
 40 W 1W maybe one more

0100Z 15.0 55.7  
 1. Composite  
 2. EVTD  
 Single PRF  
 Communicate 2300Z Update EVTD

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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: GEORGES

Prepared by the Hurricane Research Division at 03:29:47 PM on 09/18/98.
File: /home/hrd/flight\_tracks/980919hp.ftk

Aircraft: N42RF Altitude: FL180-250 Proposed takeoff: 19/1730Z
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DROP LOCATIONS

Table with 4 columns: #, LAT, LON, TIME. Rows 1-21S showing drop locations and times.

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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: GEORGES

Prepared by the Hurricane Research Division at 03:29:48 PM on 09/18/98.  
 File: /home/hrd/flight\_tracks/980919np.ftk

Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 19/1730Z

=====

TRACK DISTANCE TABLE (nm)

#	LAT	LON	LEG	TOTAL	TIME
0	ST CROIX		0.	0.	0:00
1	15 30	65 00	133.	133.	0:28
2	13 00	65 00	150.	283.	0:48
3	13 00	68 00	176.	459.	1:12
4	14 30	71 00	197.	656.	1:39
5	17 00	68 00	230.	885.	2:10
6	22 00	68 00	301.	1186.	2:51
7	22 00	60 00	446.	1632.	3:52
8	24 00	58 00	163.	1795.	4:14
9	28 00	58 00	240.	2035.	4:46
10	30 00	60 30	178.	2214.	5:10
11	30 00	63 00	130.	2344.	5:28
12	26 00	63 00	240.	2584.	6:01
13	26 00	68 00	270.	2854.	6:37
14	30 00	68 00	240.	3095.	7:10
15	BERMUDA		222.	3317.	7:50

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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: GEORGES

Prepared by the Hurricane Research Division at 03:29:48 PM on 09/18/98.  
File: /home/hrd/flight\_tracks/980919np.ftk

Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 19/1730Z

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DROP LOCATIONS

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#	LAT	LON	TIME
1	15 30	65 00	0:28
2	13 00	65 00	0:48
3	13 00	68 00	1:12
4	14 30	71 00	1:39
5	17 00	68 00	2:10
6	19 30	68 00	2:31
7	22 00	68 00	2:51
8	22 00	65 20	3:11
9	22 00	62 40	3:31
10	22 00	60 00	3:52
11	24 00	58 00	4:14
12	26 00	58 00	4:30
13	28 00	58 00	4:46
14	30 00	60 30	5:11
15	30 00	63 00	5:28
16	28 00	63 00	5:44
17	26 00	63 00	6:01
18	26 00	65 30	6:19
19	26 00	68 00	6:37
20	28 00	68 00	6:54
21	30 00	68 00	7:10

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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: GEORGES

Prepared by the Hurricane Research Division at 03:29:47 PM on 09/18/98.  
 File: /home/hrd/flight\_tracks/980919ip.ftk

Aircraft: N43RF Altitude: FL180-250 Proposed takeoff: 19/1730Z

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TRACK DISTANCE TABLE (nm)

#	LAT	LON	LEG	TOTAL	TIME
0	BARBADOS		0.	0.	0:00
1	12 30	57 00	150.	150.	0:41
2S	14 02	56 31	96.	246.	1:01
3S	14 30	57 00	40.	286.	1:09
4S	14 58	57 29	40.	326.	1:17
5S	14 02	57 29	57.	383.	1:29
6S	14 30	57 00	40.	423.	1:37
7S	14 58	56 31	40.	463.	1:46
8	17 30	55 00	175.	638.	2:22
9	21 30	48 00	464.	1102.	3:58
10	26 00	48 00	270.	1372.	4:54
11	26 00	53 00	270.	1642.	5:50
12	23 00	53 00	180.	1823.	6:27
13	18 00	59 30	473.	2296.	8:05
14	BARBADOS		297.	2593.	9:16

40 SE  
 eye  
 40 NW  
 40 SW  
 eye  
 40 NE

extra eyewall

ISE  
 2NW  
 1SW  
 1 NE may be one more

1900Z 14.8 54.3

EYTD  
 Composite  
 Single PRF



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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: GEORGES

Prepared by the Hurricane Research Division at 03:29:47 PM on 09/18/98.  
File: /home/hrd/flight\_tracks/980919ip.ftk

Aircraft: N43RF      Altitude: FL180-250      Proposed takeoff: 19/1730Z

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DROP LOCATIONS

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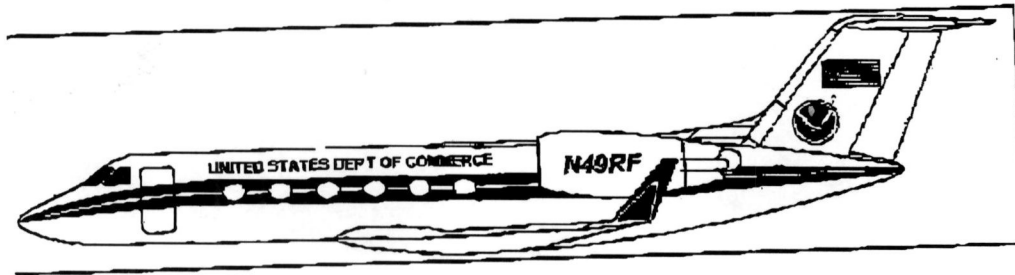
#	LAT	LON	TIME
1	12 30	57 00	0:41
2S	14 02	56 31	1:01
3S	14 58	57 29	1:17
4S	14 02	57 29	1:29
5S	14 30	57 00	1:37
6S	14 58	56 31	1:46
7	17 30	55 00	2:22
8	18 50	52 40	2:54
9	20 10	50 20	3:26
10	21 30	48 00	3:58
11	23 45	48 00	4:26
12	26 00	48 00	4:54
13	26 00	50 30	5:22
14	26 00	53 00	5:50
15	23 00	53 00	6:27
16	21 20	55 10	7:00
17	19 40	57 20	7:32
18	18 00	59 30	8:05

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# FAX TRANSMISSION

Date: 18 SEPT

Number of Pages: Lead + 7



NOAA  
AOML/Hurricane Research Division  
4301 Rickenbacker Causeway  
MIAMI, FL 33149-1026

PHONE: (305) 361-4435

FAX: (305) 361-4402

TO:

PETE BLACK c/o BARBADOS HILTON

PHONE NUMBER:

\_\_\_\_\_

FAX NUMBER:

246-436-8946

FROM:

JAMES FRANKLIN

PHONE NUMBER:

\_\_\_\_\_

Comments:

PLEASE DELIVER TO ARRIVING GUEST  
PETER BLACK WHEN HE CHECKS IN.

THANKS