

19980919I1-DROPS

HRD Dropwindsonde Scientist Log (Revised 7/98)

Storm GEORGES
 Flight ID 980919I
 Mission ID _____

Dropsonde Scientist(s) LANDSEA
 AVAPS Operator(s) JEFF SMITH

Page 1 of _____
 Takeoff 1744 UTC
 Landing _____ UTC

SCRA

1010

994

947

959

1001

1000

943

968

1007

957

960

960

968

1011

1014

1016

1017

Drop #	Sonde ID	Time (UTC)	Lat (°)	Lon (°)	Press (mb)	GAlt (m)	W (kt)	TD (°C)	WDWS (kt)	Comments	Prc ?	Xmt ?
1	982630090	1826	13°01'	56°30'	28.7	—	—	325/7	325/8	Clear - 5% StrCu. below	✓	008
2	974530024	1911	15°30'	54°29'	27.6	205-286 Slow drop	28.6	340/42	350/57	In Cloud	✓	015
3	974730061	1918	15°30'	53°59'	25.0	?	29.8	265/97	280/119	Inner ^{pile} Eyewall - West	✓	018
4	981820001	1923	15°30'	53°36'	25.3	?	?	Last 14m	—	Inner Eyewall - East	✓	020
5	973910029	1933	15°36'	53°01'	23.7	405-28 Slow drop	28.0	140/58	140/74	Noat region	✓	031
6	974530114	1946	16°14'	53°58'	26.1	255-205 S	28.3	—	65/71	cc	✓	032
7	983310139	1953	FAST FALL		—	—	—	—	—	North Eyewall	X	—
8	974530110	1957	15°31'	53°57'	26.9	—	—	265/17	220/24	Eye	✓	023
9	973840053	1959	15°21'	53°57'	25.4	—	—	—	210/122	South Eyewall	✓	035
10	974510127	2008	14°44'	53°57'	25.0	205- mod drop	28.8	235/46	240/52	Rainband	✓	037
11	982430062	2018	15°23'	54°01'	25.3	—	—	—	—	South Eyewall	✓	039
12	982430041	2027	15°49'	54°02'	—	—	—	—	—	North eyewall - inner	✓	041
13	974150035	2027 1/2	(202822)	15°01'	54°02'	—	—	—	—	North eyewall - mid	✓	55
14	974940047	2028	15°51'	54°02'	25.4	—	—	—	—	North eyewall - outer	✓	057
15	973840040	2057	18°01'	53°58'	28.3	—	—	80/31	85/37	—	✓	059
16	974510048	2121	18°30'	52°20'	28.4	—	—	100/26	100/29	20% StrCu	✓	061
17	974530094	2146	19°23'	50°32'	28.1	—	—	90/18	95/22	dark	✓	068
18	981810002	2207/9	20°03'	49°01'	28.0	—	—	95/17	95/18	dark	✓	070

850
145kt
925
160

FAST FALL

900mb
125kt
5

850
130kt

925
150kt

140kt
200

140kt

1459

1459
 15°23' N 53°23' 949 mb 119 kt 200mb? AP
 15°30' 53°58' 930 mb 176 kt 944 mb 57c
 15°31' 53°58' 175c 146 kt 944 mb 57c
 15°35' 54°4' 20:25 UTC

Storm GEORGE
 Flight ID 9809LRT
 Mission ID _____

HRD Dropwindsonde Scientist Log (Revised 7/98)

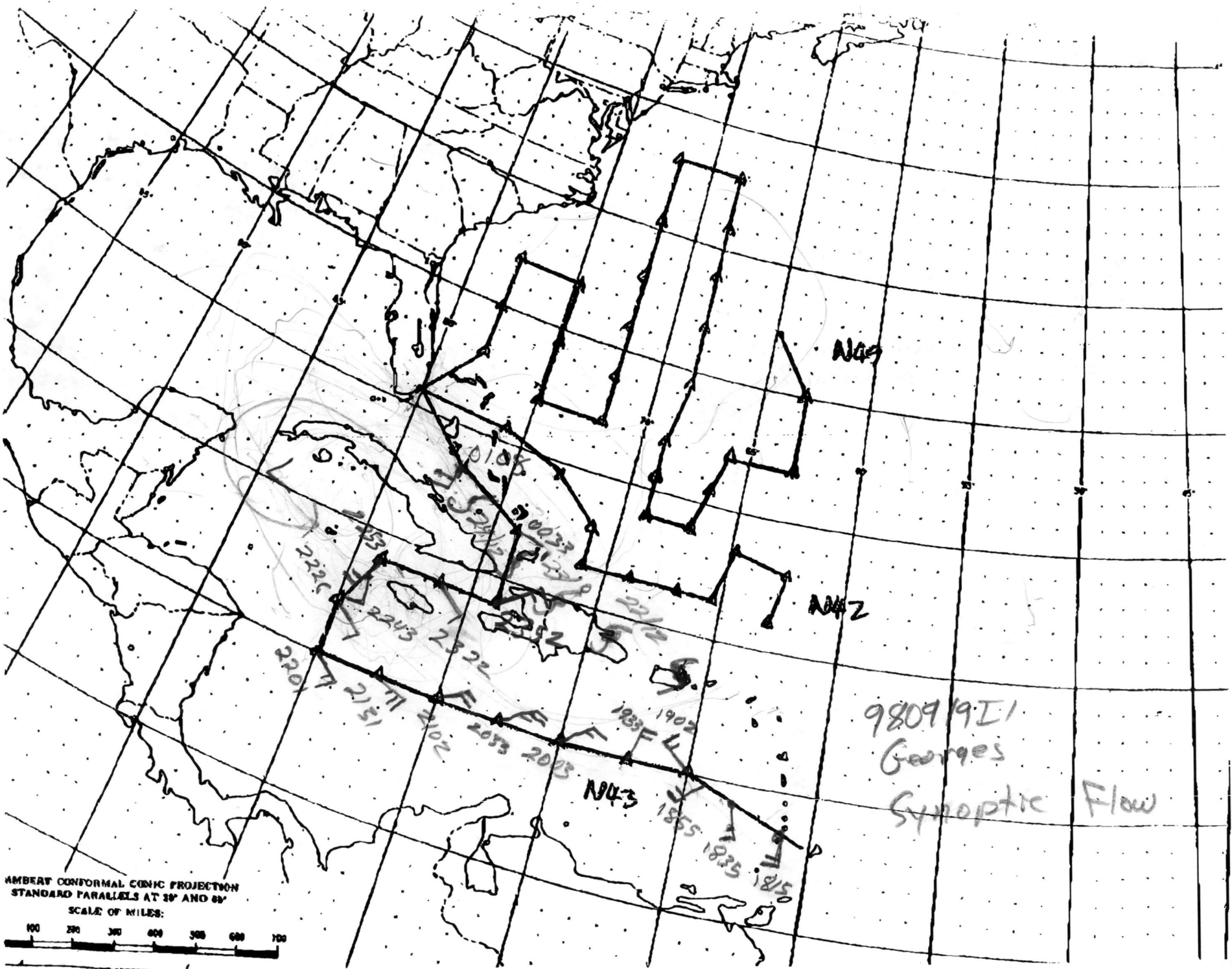
Dropsonde Scientist(s) LANDSEA
 AVAPS Operator(s) SMITH
 Fairstz SPC wind SL wind

Page 2 of _____
 Takeoff 1744 UTC
 Landing _____ UTC

Drop #	Sonde ID	Time (UTC)	Lat (°)	Lon (°)	Press (mb)	GAIT (m)	T (°C)	TD (°C)	WDWS (kt)	Comments	Prc ?	Xmt ?
1020 19	973720090	2242	23°00'	49°02'	27.8			10/15	85/13		✓	071
1020 20	974110025	2326	26°00'	51°04'	27.7			105/15	85/15		✓	079
21	982010112	2348	25°57'	53°01'						BAD - NO PTH/WINDS		
1020 22	974150036	2352	25°31'	53°15'	27.4			110/9	115/10	Backup	✓	081
1019 23	982010093	0016	24°0'	54°23'	28.0			85/14	90/15	- very dark -	✓	086
1017 24	974730121	0045	22°0'	55°44'	28.56			80/21	85/21	still dark	✓	095
1015 25	982430035	0111	20°0'	57°03'	28.2			75/22	75/27	dark	✓	097
1014 26	974540033	0145	18°0'	58°24'	29.2			50/22	55/23	Last one	✓	099

5506 W

0122, 939mb
 15046
 55°14'



AMBERT CONFORMAL CONIC PROJECTION
 STANDARD PARALLELS AT 30° AND 60°
 SCALE OF MILES:
 100 200 300 400 500 600 700

980919I1
G Georges

16°30'

16°30'

16°

16°

15°30'

15°30'

15°

15

14°30'

14°30'

14°

14°

13°30'

13°30'

NOAA H2
FIX 0112 UTC
939 MB

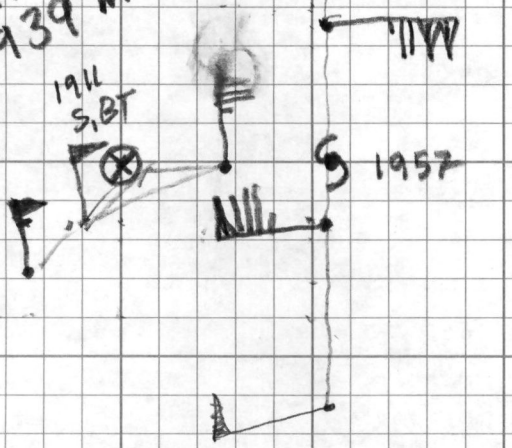
1911
S.B.T

2034

1949

1957

STEAL FIX 948 MB



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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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PROP LOCATIONS

Table with 4 columns: #, LAT, LON, TIME. Contains 18 rows of location data with times ranging from 0:41 to 8:05.

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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
 2nd
 70 NW
 40 SW
 800
 70 NE
 1000
 1500
 1 NE may be one more

1900Z 14.8 513
 EYTD
 Composite
 Supplement

<SOH>
171
WTNT42 KNHC 191441
TCDAT2
HURRICANE GEORGES DISCUSSION NUMBER 17
NATIONAL WEATHER SERVICE MIAMI FL
11 AM EDT SAT SEP 19 1998

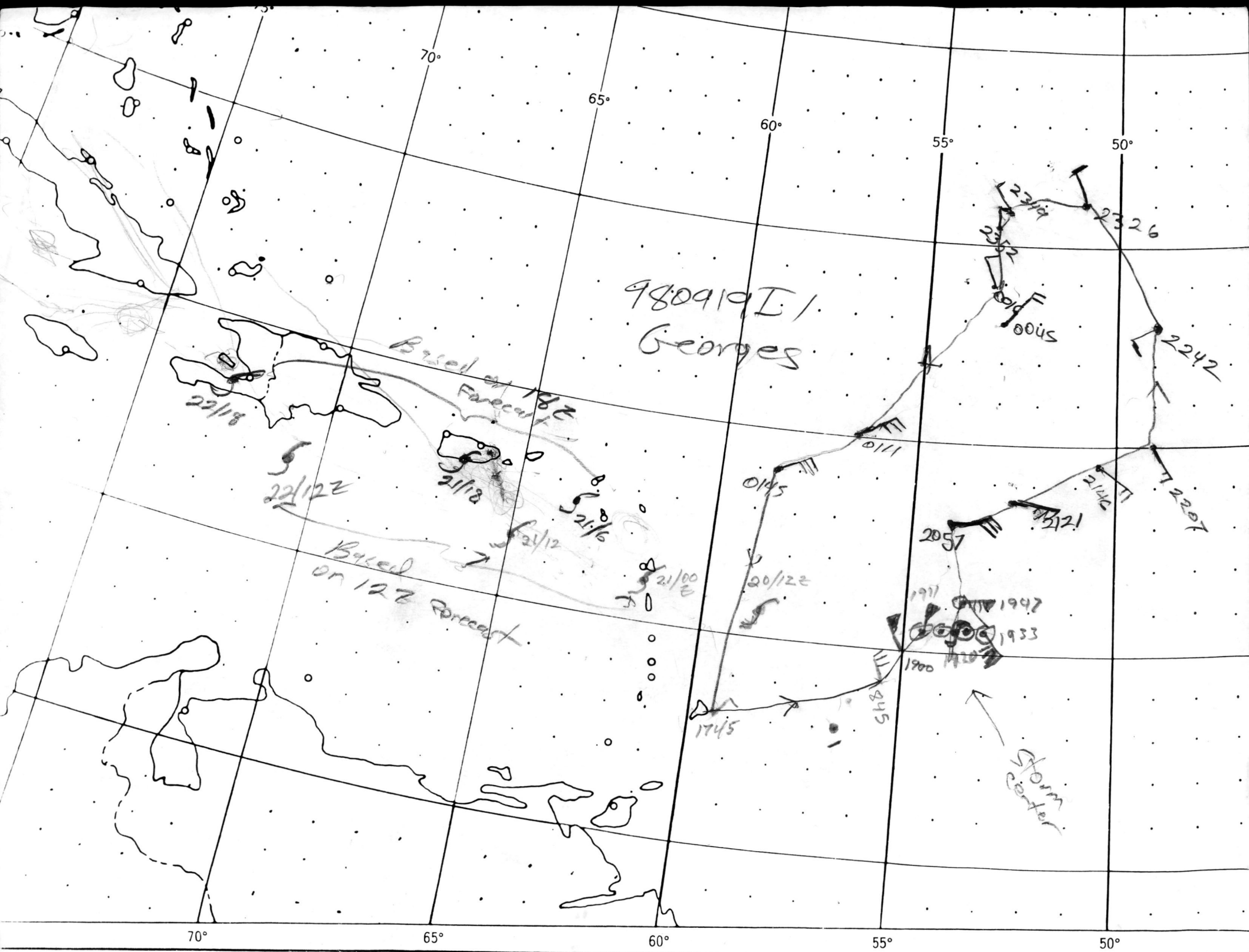
DVORAK T-NUMBERS HAVE INCREASED TO 6.0...WHICH IS EQUIVALENT TO 115 KNOTS. THE INITIAL INTENSITY IS ADJUSTED TO 110 KNOTS AT THIS TIME. A RECONNAISSANCE PLANE WILL BE IN THE EYE OF GEORGE THIS AFTERNOON AND WILL GIVE US A MEASUREMENT OF THE MINIMUM PRESSURE AND MAXIMUM WINDS. THE HURRICANE HAS AN EXCELLENT EYE PRESENTATION AND WELL DEFINED BANDING FEATURES. THE OUTFLOW REMAINS FAIR AND THERE ARE NO UPPER-LEVEL WESTERLIES AHEAD OF THE HURRICANE AT THIS TIME. THEREFORE... ADDITIONAL STRENGTHENING IS INDICATED. INITIAL MOTION IS 280/16. THERE IS A WELL DEFINED MID-TROPOSPHERIC RIDGE TO THE NORTH OF THE HURRICANE WHICH IS FORECAST TO PERSIST. SO THE HURRICANE SHOULD CONTINUE WITH THE SAME GENERAL HEADING THROUGH 72 HOURS. HOWEVER...MODELS ARE DIVERGENT. SOME GOOD MODELS LIKE NOGAPS AND UKMET MOVE THE HURRICANE ON A MORE WEST-NORTHWESTERLY TRACK AND THE REST SHOW A STRAIT WESTWARD MOTION AND EVEN SOUTH OF DUE WEST. THE OFFICIAL FORECAST IS ALMOST A CARBON COPY OF THE GFDL AND LBAR WHICH ARE IN THE MIDDLE OF THE TRACK FORECAST ENSEMBLE.

A KEY PLAYER COULD BE AN UPPER LOW OVER HISPANIOLA. MODELS WEAKEN THE LOW RAPIDLY OR MOVE IT SOUTHWESTWARD BUT THERE ARE NO SIGNS OF EITHER AT THIS TIME. IF THE LOW REMAINS...A MORE NORTHERLY COMPONENT SHOULD RESULT.

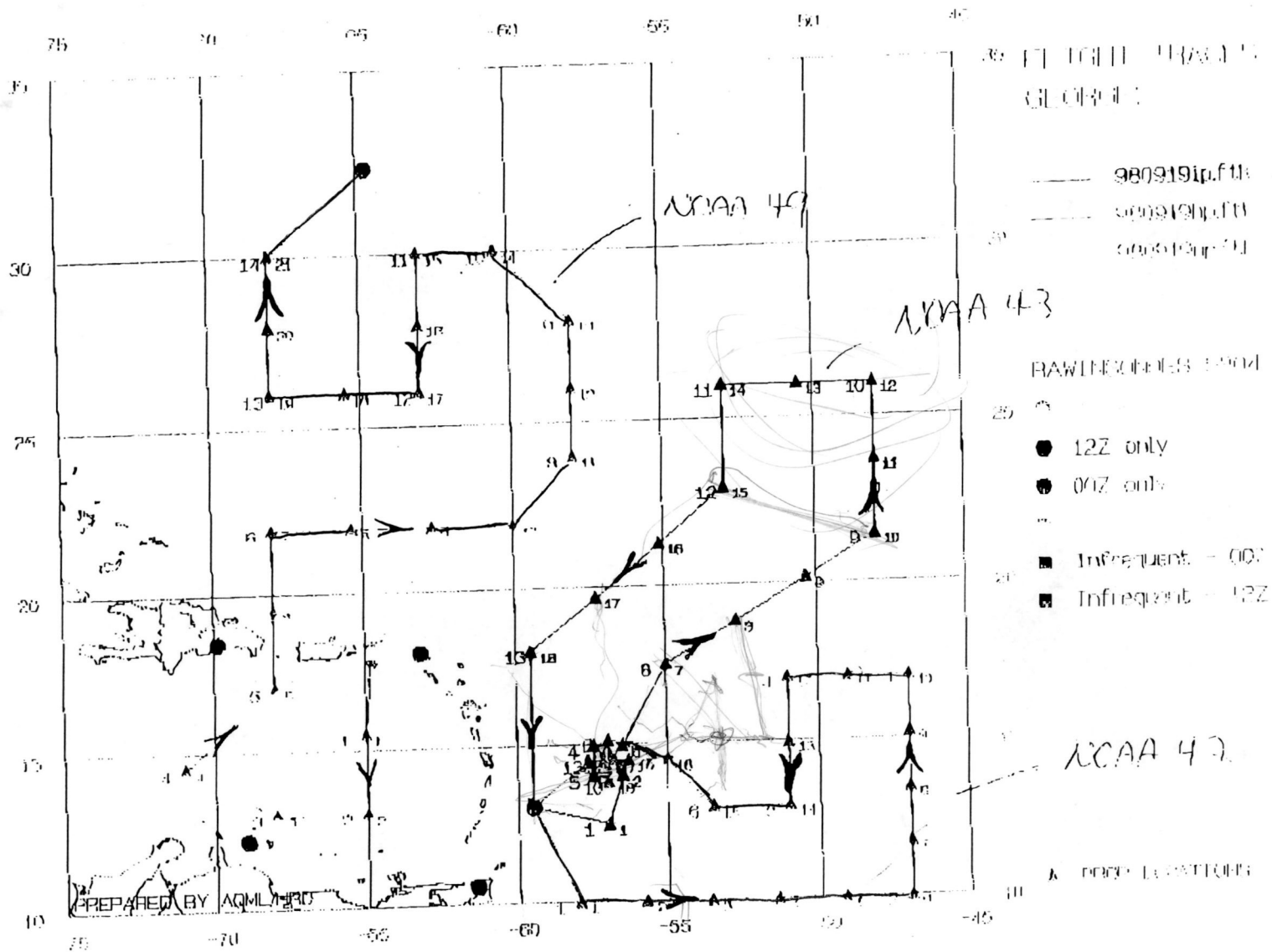
AVILA
FORECAST POSITIONS AND MAX WINDS

INITIAL	19/1500Z	15.0N	52.8W	110 KTS
12HR VT	20/0000Z	15.4N	55.3W	115 KTS
24HR VT	20/1200Z	15.7N	58.4W	120 KTS
36HR VT	21/0000Z	16.0N	61.5W	120 KTS
48HR VT	21/1200Z	16.5N	65.0W	120 KTS
72HR VT	22/1200Z	17.0N	71.0W	120 KTS

<ETX>



980919 Georges



1905 6: 17°50' 65° W (From LF by JP agrees with TEAL)

sonde
1 974510125 19040 14°57' 65° 01.7' PTH Good, Wind Good at 16s

Lowest wind 202° 11 m/s Poss P bias 1.6 mb
index 1 → 1360 CACA (had to edit AVAPS to remove old sta ff)

2 973410149 19332 15° 02.7' 67° 31'
05° 22 KTS -3.4° -23.7°
5822 m 504 mb



Possible P Bias 2.2 mb

3 973840077 2008 15° 70' 5832
-3.8 -29.5 ~~273~~⁴³° 15 KTS
(273 is HDG!)

4 973840049 2033 15° 72° 30' ~~58~~ -3.7, -23.7°
5840 m 48° 26 KT ~~58~~

9 982640251 2252⁵⁴ 19° 01' 78° 57' 190° 13 KT
6498 m -9.3 -20.8

10 972440003 232155 18° 57' 76° 30' 6508 m
140/6.8 -8.6 -30.7

11 ~~973250035~~ 235 19° 03' 74° 00' 47/15.7 6515 -8.2
974730049 -28.3
464 mb

OVER →

(2)

12 973250035

003341

22° 01'

74° 01.8'

6841

77° 18'

-9.8 -30.3