

Hurricane Irene Florida Landfall
N43RF

I991015

DATA TYPE	SENSOR or OPTION
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INE	2
Accelerometer	2
Temperature Probe	1
Altitude (for vertical wind)	RA159
Static Pressure	Fuselage
Dynamic Pressure	Fuselage
Dewpoint Probe	2

Notes:

This flight's data ends before landing in Gulfport, MS. The last data are at 0246Z, while the aircraft landed at Gulfport at 0312Z. The last center fix was at 0110Z.

Patched bad values of APN-159 radar altimeter before take-off.

Renavigated this flight's INE2 positions using 11 valid GPS positions.

Patched missing values of INE2 Lat, Lon, Tk, Hd, Pc, Roll, and AV between 0147z-0150z.

Dewpoint Source #2 was used in post-processing. It tailed off to an unusable steady value after the aircraft climbed out departing Emily. Source #1 went spuriously warm during this same period.

SPECIAL NOTE!!! Locations 80, 81 and 82 of record five on the standard tape contain vertical ground, vertical air and vertical wind speeds, respectively, derived from Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

	Takeoff	Landing
Aircraft static pressure	1008.0 mb	1013.3 mb
Corrected tower pressure	1009.0 mb	1013.7 mb

Flight Director: Jack Parrish, (813) 828-3310 ext. 3077

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.1 OAOWF1 FILE

FLT ID: 991015I	FM: KMCF	TO: Gulfport, MS
FLT NO: 00-08	BLK IN: 0320	ATA: 0312
ETD: 1930Z	DLK OUT: 1922	RTD: 1934
ETE: 8	BLK TIME: 7:58(8.0)	FLT TIME: 7:38(7.6)
SPONSOR ORG: HAD	PROGRAM: Research	PURPOSE: Irene Land-Fall

OAO PERSONNEL

AC Kenul	SYS ENG McMillan ✓
CP Taggart	DATA SYS
NAV Newman ✓	BARBAR Fields, E. ✓
FE Basti/Wade	DT/ODW Delgado ✓
RADIO	CLD PHYS Hall ✓
FD Parrish	DOPPLER Floyd

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
Dodge, P. ✓		HAD
CION, J. ✓		↓
Black, M. ✓		NASA
Walsh, E. ✓		

47

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)

ATIS
26/25 FLY 8K ADAR, DAD LEGS AROUND LAND FALLING 12606.
+26 PA
29.80

26.8/21.6
1007.1

5. EYE PENETRATIONS

26 Drops
7 BTs

2019Z 25°30'N, 80°58'W
2131Z 25°40'N, 80°52'W
2320Z 25°54'N, 80°39'W
0052Z 26°04'N, 80°26'W
0110Z 26°06'N, 80°23'W

SP 1006.7 fm 5K
SP 1007.1 fm 5K

Data sys died 0249, 0259.

LAND 0253Z
21/19 CALM
29.96 1013.7
SP 1012 fm 7.5K
330/7
24/18.5
1013.3

U.S. DEPT. COMM./NOAA/OAD - DATA SECTION WORK FORM NO.2 OADWF2

FLT ID: 7110

TIME OFF:

TIME ON:

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE				

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES		
FAST FLT LVL TAPES		
RADAR TAPES		
DOPPLER TAPES		
ODW CASSETTES		
HARD COPIES		
AXDT		
AXCP		
ODW		

PHOTOGRAPHY

	FWD	LS	RS	VERT	
ON					
OFF					
RATE					

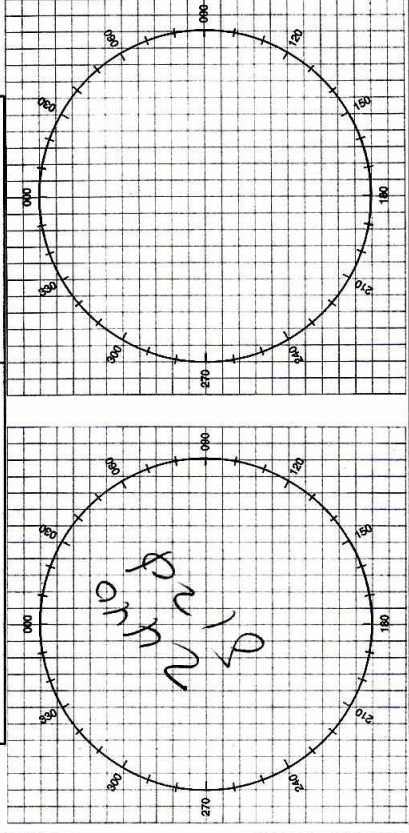
REMARKS

991015 I H. IRENE LANDFALL

Time	LAT	LONG	TK	WD	WS	PA	GA	TA	TD	SI	PS		
1922	27 30.9	82 25.6				52		28.7	21.5		10065		BLK
20045	27 32.8	82 23											
20045	25 42	81 40	120	46	47	2411	2374				Drop		
2019	25 30	80 58									983		9
20245	25 00	80 40	157	240	66	2488	2443	14.5	14.0	990	748	Drop	
2046	24 22	79 54	349	215	58.7	2391	2423	14.1	13.9	1000	756		
2005	25 05	80 00	388	190	54	2395	2395	16.3	10.4	995	754	Drop	honda
21030	25 38	80 03	8	167	64	2422	2421	13.3	13.1	997	Drop	BT	
21250													
21350													
2131	25 40	80 52											
22014	24 29	81 46	70	308	32.8	2395	2419	14.1	13.1	999	Drop		9
2212	24 34	81 03	180	280	43	2397	2405	16.6	12.1	995	Drop	BT	
22180	24 48	80 49	61	270	37	2391	2280	19.0	10.2	991	Drop		
2225	24 57	80 20	66	238	31.5	2392	2393	17.6	10.0	994	Drop	BT	
2233	25 34	80 04	2	190	59	2470	2441	13.4	12.1	994	Drop		
2241													
2249	26 36	80 04											
2302	27 06	80 33	213	106	41	2412	2419	13.0	12.5	999			
23245	26 25	80 40	190	101	55	2445	2431	14.1	12.8	992			
2320	25 54	80 39						17	14				9
2328	25 28	80 40											
234030	24 53	81 07	270	310	33	2432	2446	18.1	10.5	995			
23448	24 54	81 22	270	294	36	2435	2450	16.9	10.8	996	130		
2357	25 13												
001028	25 39	79 25	60	196	51	2421	2445	14.5	13.4	998			
001725	25 53	78 55	57	180	63	2374	2412	12.2	—	1005	In Yard	Drop	
001955	25 58	78 25											
002345	26 14	78 36	305	170	49	2376	2439	12.9	12.6	10048			
00345	26 35	79 04											
00350	26 27	79 25											
0045													
0052	26 04	80 26											9
0057													
0110	26 00	80 23						17	13				9
01160	26 00												
01355	26 01	81 51	269	352	30	3333	3430	9.3	7.5	999	672	Drop	to 6000
0144	26 29	82 34	307	292	30	6361	6689	-7.0	-38	9929	4479	→ 40	
023145	28 48	86 17	306	54	18.2	6737	7113	-13.5	-43	1007.7	426		
0320	30 24.5	89 04.3				1		22	17		1013.2	Block 1A	

PAGE ____ OF ____

CLEARANCES			
FREQ	ALT	HDG	OTHER
			U" 040/11 29.80
			Runway 26/23
			29.80 PA + 26



POSITION REPORT

1. POSITION

2. TIME

3. ALTITUDE

4. NEXT POSITION

5. ETA

6. NEXT POSITION

- PILOT INTENTIONS _____
- WE HAVE _____ ENDURANCE REMAINING _____

[illegible]

INS PERFORMANCE		
	INS 1	INS 2
BEGIN ALIGN TIME	1800	1800
ALIGN STATUS (0-5)	0	0
END NAV TIME	1900	2000
START NAV TIME	1900	1900
DELTA T	8700	8700

TERMINAL ERRORS		
	INS 1	INS 2
DELTA LAT	-2.5	-2.5
DELTA LON	+2.2	ϕ
RGS	4 	3 
RADIAL ERROR	3	2

[illegible]

122.95 Adell

**TROPICAL PREDICTION CENTER
NATIONAL HURRICANE CENTER****FAX: 305-553-1901****National
Oceanic and
Atmospheric
Administration****FAX COVER SHEET****To:**NAME CDR Sean WhiteCOMPANY NAME AOC

PHONE () _____

FAX () 828-4529**FROM:**Pete Black/Frank MarkesNAME: HURRICANE RESEARCH DIVISION/MIAMI GROUND OPERATIONS CENTERPAGES (INCLUDING COVER) 4DATE 10/15/99 1999

IF YOU DO NOT RECEIVE ALL PAGES, PLEASE CALL 1-305-221-4381

OR 1-305-229-4407

COMMENTS:

Today's flight track plot and
list of points. Crew is J. Cline,
M. Black, E. Walsh + P. Dodge.
GAXBT's
25 GPS sondes

THANK YOU

19991015I Flight Track 26 36
FL 8,000 ft TO 19:30:00

UKWF
8002

C-MAN

Send
LOCATIONS

Location	Latitude (°)	Longitude (°)	elapsed distance	elapsed time (hh:mm:ss)
MacDill AFB	27.800	82.500		
1	26.400	82.100	160.55	0:23:38
C	25.200	81.500	306.73	0:45:10
SMKF	24.630	81.110	381.27	0:56:08
2	24.000	80.700	462.65	1:08:07
MLRF	25.010	80.380	579.55	1:25:20
FWYF	25.590	80.100	649.93	1:35:42
3	26.000	80.000	696.61	1:42:34
C	25.400	81.500	860.67	2:06:44
4 DRYF	24.640	82.860	1021.3	2:30:23
SANF	24.460	81.880	1122.3	2:45:16
KBYX	24.600	81.700	1146.3	2:48:48
C	25.500	81.400	1250.8	3:04:11
5	25.700	81.300	1275.2	3:07:47
NAPF	26.100	81.800	1342.2	3:17:39
KBYX	24.600	81.700	1509.3	3:42:15
LONF	24.840	80.860	1598.3	3:55:21
MLRF	25.010	80.380	1650.3	4:03:01
FLGF	25.200	80.900	1706.8	4:11:20
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NAPF	26.100	81.800	1844.8	4:31:40
KBYX	24.600	81.700	2011.9	4:56:16
FLGF	25.200	80.900	2116.7	5:11:42
NAPF	26.100	81.800	2251.7	5:31:34
Gulfport, MS	30.400	89.100	3123.3	7:39:56

DROP

DROP
DROP

DROP
DROP

DROP
DROP
DROP

4
5
6
3
1
2

C-MAN

Sonde
LOCATIONS

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DROP

DROP
DROPDROP
DROP

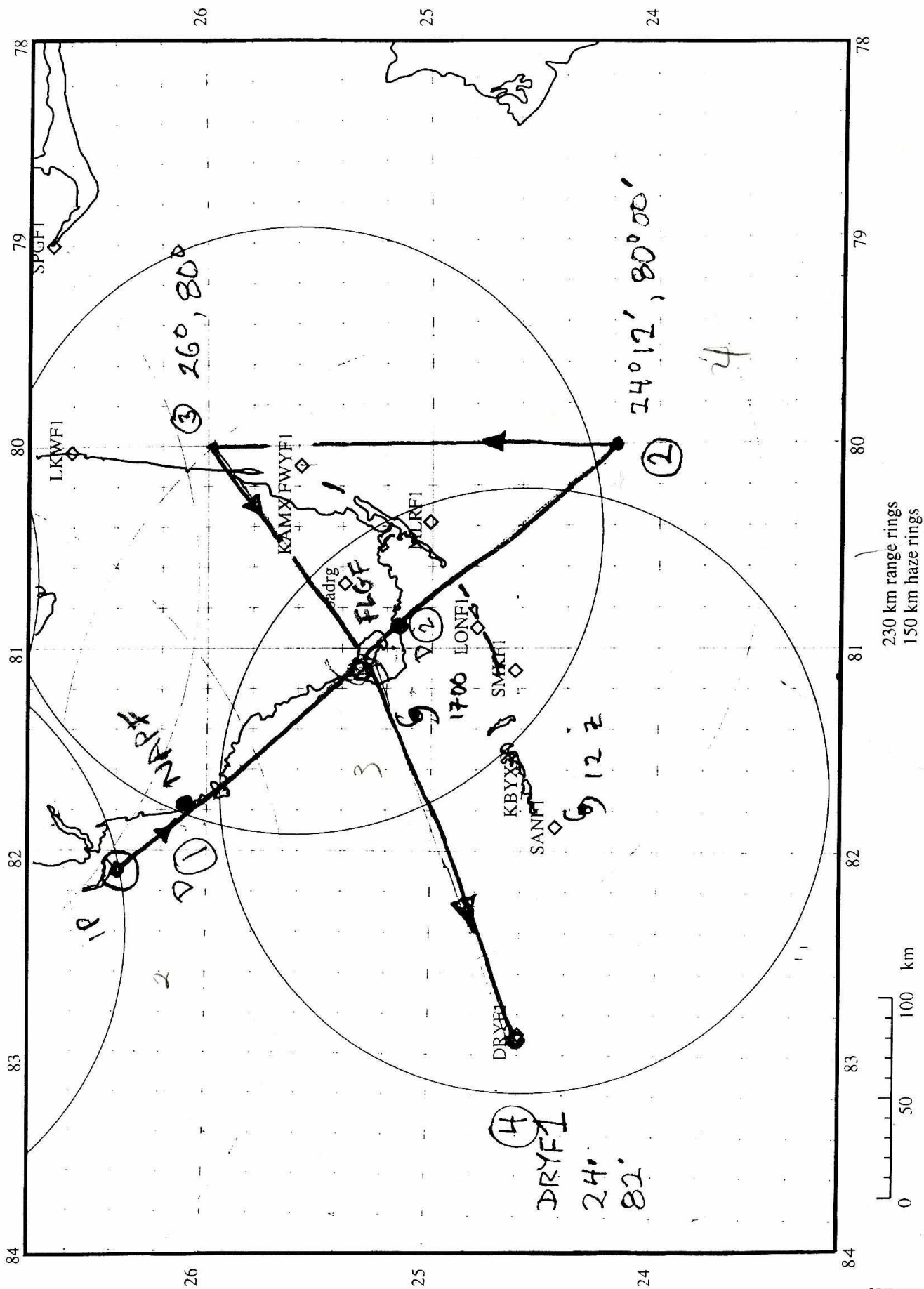
DROP

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19991015I Flight Track
FL 8,000 ft TO 19:30:00

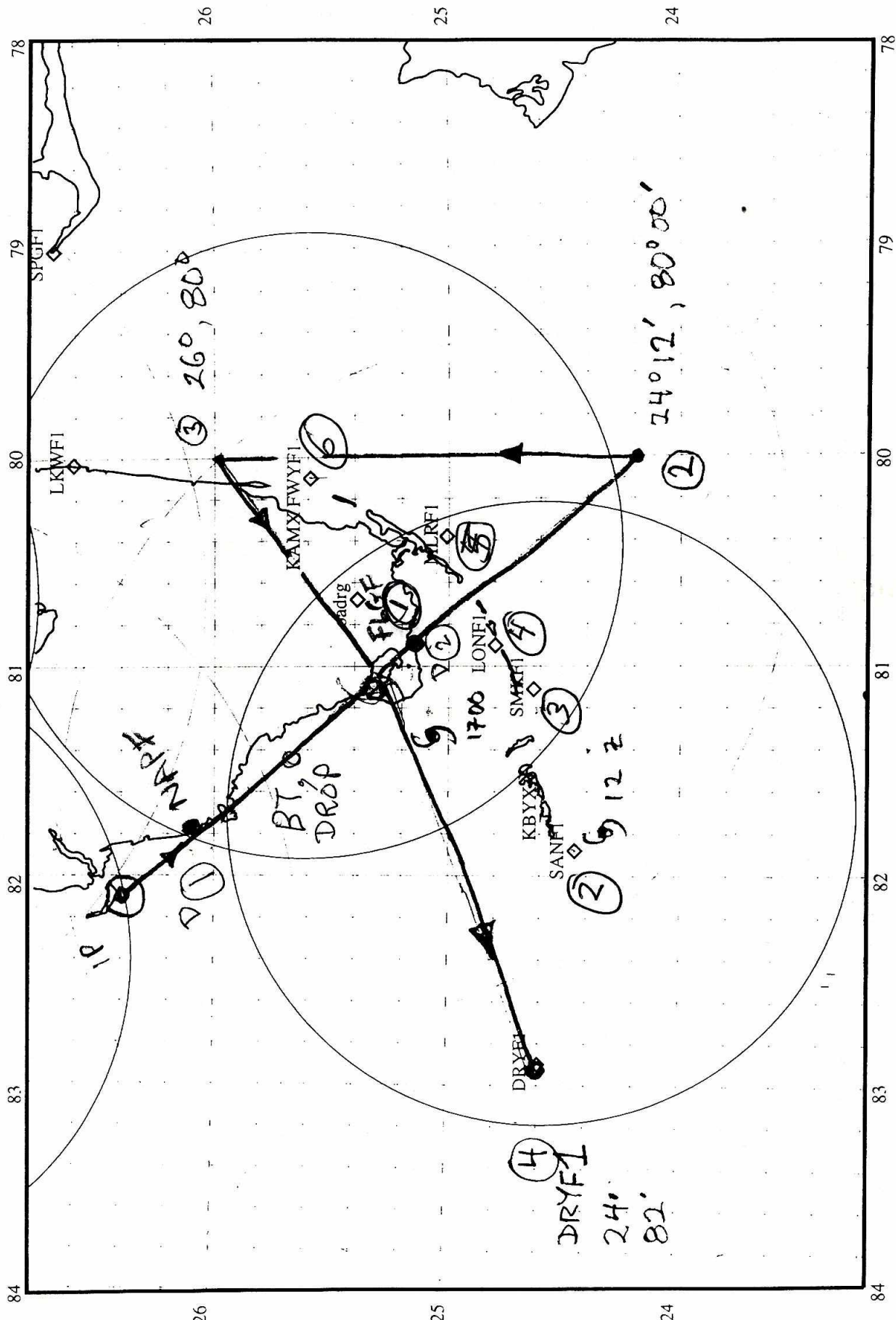
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byx_amx_map.ps Center Lat: 25.00 Lon: -81.00



www.weatherconcepts.com

byx_amx_map.ps Center Lat: 25.00 Lon: -81.00



230 km range rings
150 km haze rings

0 50 100 km

15/1158

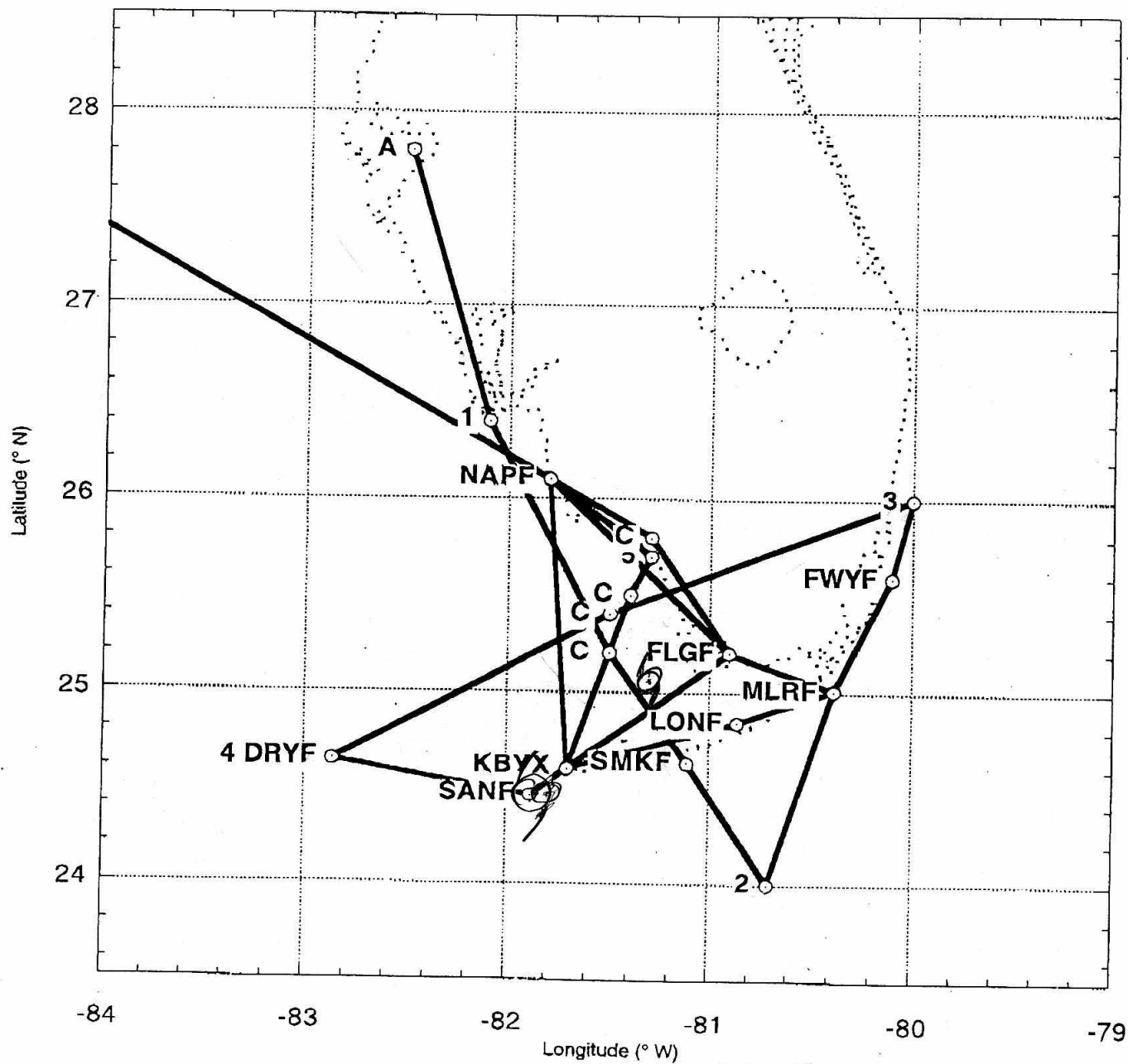
24 23

81 48

986

114/74

016 30



1700Z

25 03

81 22

TEAL 37

TEAL 13

TILL

21Z

2330

WXWXA IREDE

FAX NO. : 3053614402

Oct. 15 1999 11:48AM P1

