

# Hurricane 1999

## Hurricane Dennis Landfall/Canceled

Flight #6: 990830H

<u>Sensor or system</u>	<u>Number or Name</u>
INE	1
Accelerometer	1
Temperature Probe	2
Dew Point Probe	1
Altitude (for vertical wind)	Pressure Altitude
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO2991.CON

### Notes:

The radar altimeter (RA159) had a spike at takeoff and was replaced by RA232 from 1745:01-1754:16. RA-159 was turned off 1956:01-2106:00. RA-232 was turned off 1958:30-2103:00 and was replaced by RA-GPS with an offset of +7.5 from 1942:30-2103:30. RA-159 was replaced by RA-232 with an offset of +9.0 from 2111:01-2114:31. A spike also occurred at landing and RA159 was replaced by RA232 (2121:01-2136:00).

Dewpoint (DW1) was replaced by DW2 from 1745:01-1822:44. Dewpoint (DW1) exceeded ambient temperature (AT1) a few times due to heavy precipitation.

Total temperature (TT2) was replaced by TT1 due to dropouts from 1807:01-1816:10 with an offset of +0.30.

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1011.6	1009.5
Corrected tower pressure	1012.5	1011.2

The aircraft INE positions were renavigated with respect to GPS.

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

Flight Meteorologist: Stan Czyzyk, (813) 828-3310 ext. 3086

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

FLT ID: 990830H	FM: KMLF	TO: KMLF
FLT NO: 99-018	BLK IN: 2139Z	ATA: 2131Z
ETD: 1730Z	DLK OUT: 1738Z	RTD: 1751Z
ETE: 0300Z	BLK TIME: 4'01 4.0	FLT TIME: 3.40 3.7
SPONSOR ORG: NOAA	PROGRAM: HRD	PURPOSE: HURR DENNIS LANDFALL

OAO PERSONNEL

AC TENNESEN, D	SYS ENG McMAILLAN, S ✓
CP KENVU, P	DATA SYS HILL, J ✓
NAV NEWMAN, C ✓	RADAR
FE BAST, E ✓	BT/ODW HORN BROOK, C ✓
RADIO ROGERS, M ✓	CLD PHYS
FD CZ4ZYK, S ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
HOUSTON, S ✓	PI	HRD
BLACK, M/T MARKS, F ✓	SCIENTIST	"
ABERSON, S -	"	"
LEIGHTON, P -	"	"
DODGE, P ✓	"	"
LANDSEA, C ✓	"	"
CARSWELL, J ✓	CSCAT - KU SCAT	UMASS
JOHNSON, N ✓	MEDIA	TAMPA TRIB.

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)  
 KILL ALL RADARS & RADAR ALT 1955-2000Z FOR FUEL OUMP



U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 OAOWF2 F

FLT ID: 990830H

TIME OFF: 1751Z

TIME ON: 2131Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1011.5	29.90	1009.5	29.86

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES	2	
FAST FLT LVL TAPES		
RADAR TAPES		
DOPPLER TAPES		
DDW CASSETTES		
HARD COPIES	1	
AXDT	/	
AXCP		
ODW		

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

[illegible]















# N42RF AVAPS DropSonde Log

N42RF Project: Hurricane 99 Flight ID: 990830 H

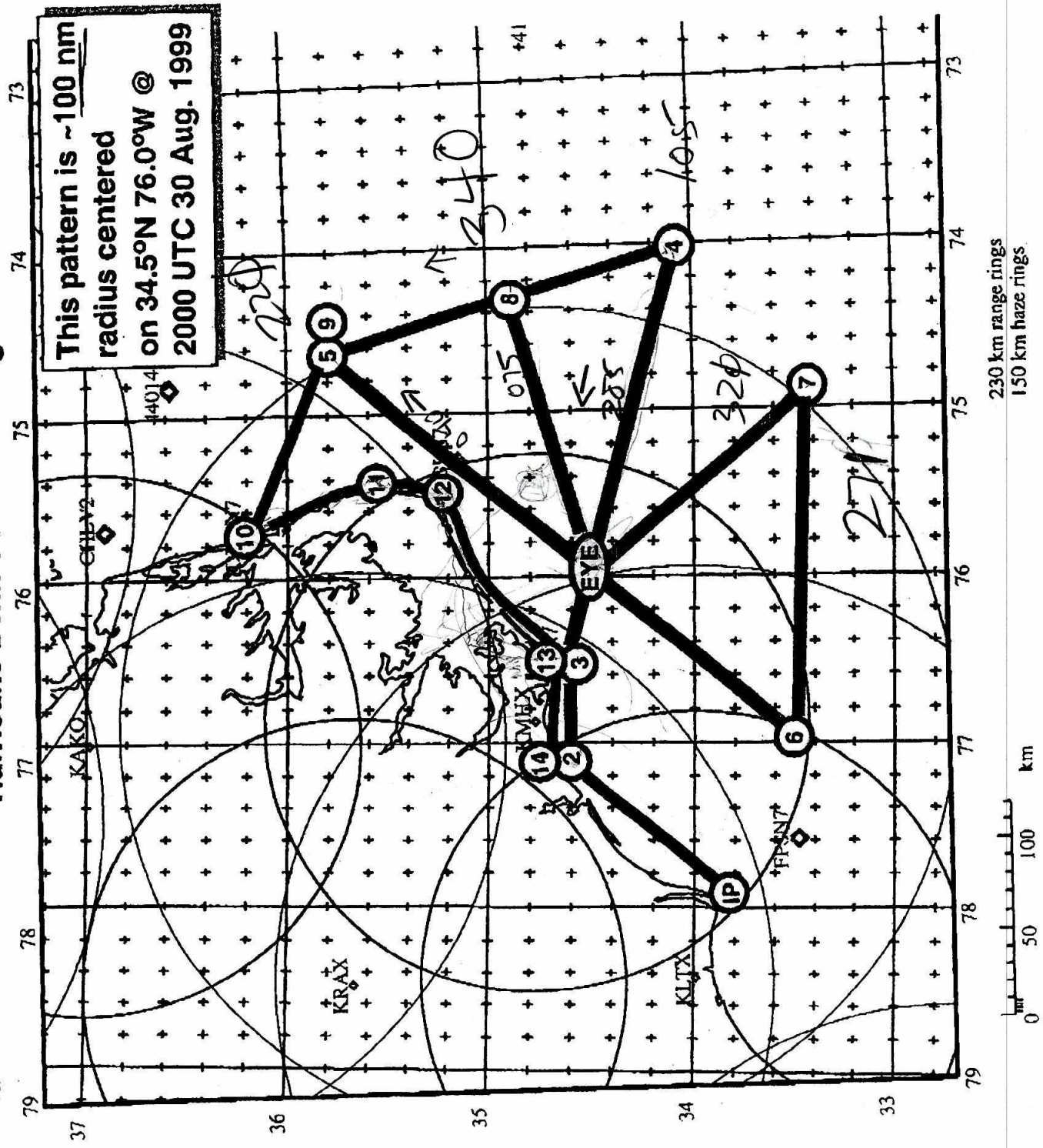
Mission: Dennis 4 Flight #: 4 System Status: OK

Drop #	Sonde Serial Number	Time (Z)	Chn #	Press. offset	Winds time	Operator Init.	Comments Drop Status	BAD <input checked="" type="checkbox"/>	GOOD <input checked="" type="checkbox"/>
1	983 720 847								
2	983 340 087								
3	984 325 274								
4	983 310 080								
5									
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# Center Lat: 35.00 Lon: -75.00      Hurricane Dennis NOAA 42 Flight Pattern

This pattern is ~100 nm radius centered on 34.5°N 76.0°W @ 2000 UTC 30 Aug. 1999



8K8A