

Hurricane 1998

St. Croix Ferry/Intercomparison

Flight #1 980819H

<u>Sensor or system</u>	<u>Number or Name</u>
INE	2
Accelerometer	2
Temperature Probe	1
Dew Point Probe	1
Altitude (for vertical wind)	RA-159
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO2988.CON

Notes:

Radar altimeter (RA159) had a spike at takeoff (1801:01-1802:33) and was replaced by RA232. RA159 was turned off due to intercomparison and was replaced by RA232 plus an offset on three occasions (RA232 + 18.0 from 1828:00-1836:00, RA232 + 50.0 from 1836:00-1849:25, RA232 + 60.0 from 1909:10-1920:03). There were four spikes in RA159 during the flight, all of these spikes were removed and patched (1912:45-1914:30, 2001:00-2005:00, 2115:00-2115:30, and 2149:30-2150:00. RA159 had a spike at landing and was set to zero 2201:31-2203:30. RA159 had dips due to overflying land.

Dewpoint (DW1) had two spikes removed and patched due to balancing 1810:00-1811:00-1839:30-1841:00. Dewpoint (DW1) exceeded ambient temperature (AT1) several times due to heavy precipitation.

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1016.1/1014.3	1013.8/1010.0
Corrected tower pressure	1014.9/1014.2	1014.6/1011.9

The aircraft INE positions were re navigated 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: 980819	FM: KMCF/KOFF	TO: KOFF/TISX
FLT NO: 98-066	BLK IN: 1509Z/2206Z	ATA: 1507Z/2202Z
ETD: 1400Z	DLK OUT: 1405Z/1754Z	ATD: 1416Z/1802Z
ETE: 1500Z	BLK TIME: 5:16 5.3	FLT TIME: 4:51 - 4:90
SPONSOR ORG: HRD	PROGRAM: HURRICANE	PURPOSE: FERRY/1-comp.

OAO PERSONNEL

AC PHILIPPSBORN, R ✓	SYS ENG MCMILLAN, S ✓
CP TEGGART, B / OMARA, T ✓	DATA SYS
NAV RATHBUN, D ✓	RADAR BARR, J ✓
FE TORREY, R ✓	DT/ODW DELGADO, J ✓
RADIO ROGERS, M ✓	CLD PHYS CURRY, J ✓
FD CZ424K, S ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
MARKS, F ✓	PI	HRD
GAMACHE, J ✓	SCIENTIST	"
LEIGHTON, P ✓	"	"
ABERSON, S ✓	"	"
LANDSEA, C ✓	"	"
CIUNE, J ✓	"	"

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

DW 8-10° TOO COLD
 TT4 NOT OPERATIONAL YET
 PS 1-2 DIFF 5 AD & 11K
 LF OUT ASAU BURST, PULLED BREAKER 1920Z
 14, 16, 12 AXBTs

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

FLT ID: 980819H

TIME OFF: 1416Z/1802Z

TIME ON: 1507Z/2202Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1016.1/1014.3	29.97/29.95	1013.8 /1010.0	29.96/29.88

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES	2	
FAST FLT LVL TAPES		
RADAR TAPES		
DOPPLER TAPES		
ODW CASSETTES		
HARD COPIES		
AXBT	3	
AXCP		
ODW		

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

413-50

[illegible]

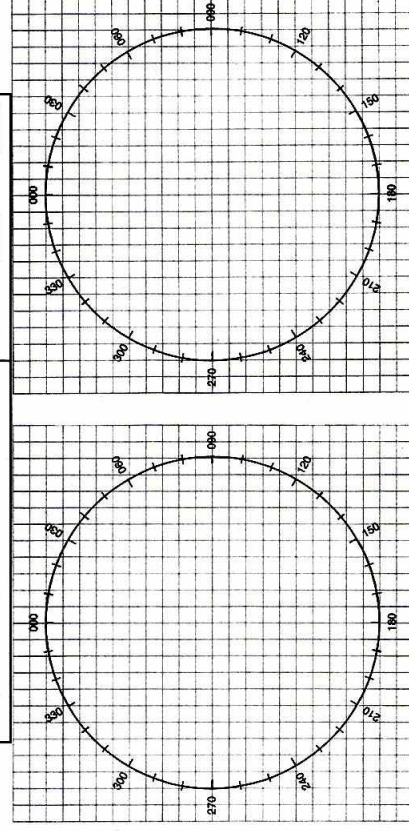
[illegible]

CLEARANCES

[illegible]

MISSION LOG

PAGE OF



POSITION REPORT

- 1. POSITION
 - 2. TIME
 - 3. ALTITUDE
 - 4. NEXT POSITION
 - 5. ETA
 - 6. NEXT POSITION

EMERGENCY MESSAGE

TRANSMIT THE FOLLOWING MESSAGE TO ANY AGENCY ON THE AIR-GROUND FREQUENCY IN USE. IF UNABLE TO ESTABLISH COMMS, ATTEMPT CONTACT ON ANY OF THE FOLLOWING EMERGENCY FREQUENCIES:

UHF/VOICE	VHF/VOICE	MF/VOICE	HF/CW	MF/CW
243.0	121.5	2182 KHZ	8364 KHZ	500 KHZ

MAYDAY, MAYDAY, MAYDAY

THIS IS NOAA _____, NOAA _____, NOAA _____

- POSITION _____ N / S

- HEADING _____ TRUE/MAG _____

- AT _____ KTS TRUE/INDICATED

- FLIGHT LEVEL OR ALTITUDE _____

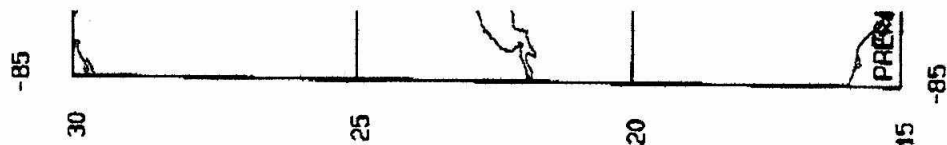
- WE ARE A P-3 AIRCRAFT WITH

- NATURE OF EMERGENCY ASSISTANCE DESIRED

- ASSISTANCE DESIRED
- BIL OT INTENTIONS

- PILOT INTENTIONS
- WE HAVE ENDURANCE REMAINING

[illegible]

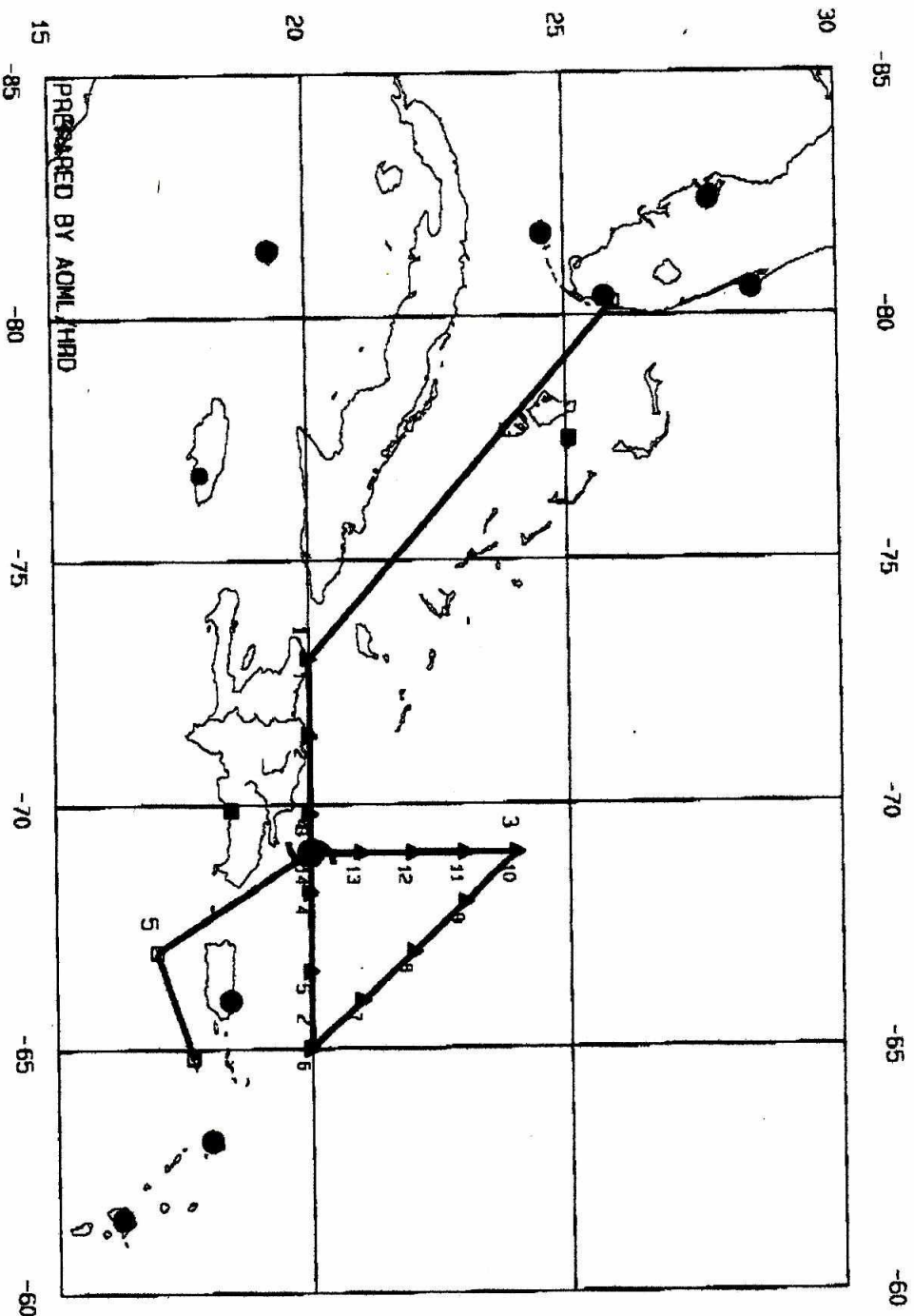


Aircraft: N42RF Altitude: FL180-250 Proposed takeoff: 19/1500Z

DROP LOCATIONS

#	LAT	LON	TIME
1	20 00	73 00	2:01
2	20 00	71 24	2:20
3	20 00	69 48	2:39
4	20 00	68 12	2:57
5	20 00	66 36	3:16
6	20 00	65 00	3:35
7	21 00	66 00	3:52
8	22 00	67 00	4:09
9	23 00	68 00	4:26
10	24 00	69 00	4:42
11	23 00	69 00	4:55
12	22 00	69 00	5:07
13	21 00	69 00	5:20
14	20 00	69 00	5:32

Option A



PREPARED BY ADMJL/HRD

FLIGHT TRACKS GENESIS

— 980819h.s.ft

RAWINSONDES 9807

- Regular
- 12Z only
- 00Z only
- Infrequent
- Infrequent - 00Z
- Infrequent - 12Z

▲ DROP LOCATIONS