

19980918H1 - FDR

Hurricane Georges Synoptic Flow/ Ferry to Barbados

Flight #10 H980918

<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)	RA-159
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO2989.CON

Notes:

The radar altimeter (RA159) had a spike at takeoff and was replaced by GPS from 1552:11-1559:30. Several spikes in RA159 were removed and patched throughout the flight (1746:00-1747:00, 1750:00-1751:00, 2011:30-2012:00, 2016:30-2017:00, 2033:30-2034:30, 2114:00-2114:30, and 2125:00-2126:00). A spike also occurred just prior to landing and RA159 was replaced by RA232 (2130:30-2136:00). Dips in radar are due to overflying land (1943:00-1952:00 (Puerto Rico), 2003-2007 (St. Croix) and 2102:00-2104:00 (Martinique).

Dewpoint (DW1) had a spike removed and patched (1646:00-1649:00). Dewpoint (DW1) exceeded ambient temperature (AT2) at times due to heavy precipitation.

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1010.8	1005.7
Corrected tower pressure	1012.9	1012.2

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

9809184

[illegible]

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

FLT ID: 9809184	FM: KMCF/KOPF	TO: KOPF/TBPS
FLT NO: 98-076	DLK IN: 1408Z/2136Z	ATA: 1408Z/2133Z
ETD: 1300Z/1530Z	DLK OUT: 1306Z/1542Z	RTD: 1315Z/1556Z
ETE: 1400Z/2130Z	DLK TIME: 6.56 6.9	FLT TIME: 6:26 6.4
SPONSOR ORG: NAA/HALD	PROGRAM: SYN. FLOW	PURPOSE: FERRY TO BARB. MISSION

OAO PERSONNEL

AC PHILLIPSBOAN, R ✓	SYS ENG ROLES, J ✓
CP KENUL, P / TAGGART, B ✓	DATA SYS
NAV RATHOUN, D ✓	RADAR BARR, J
FE BAST, G / TOMNEY, R ✓	DT/ODW CARPENTER, D ✓
RADIO ROBERS, M ✓	CLD PHYS MCFADDEN, J ✓ (LEG1)
FD CZYZYK, S ✓	DOPPLER CURRY, J ✓

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
DODGE, P LEG1	SCIENTIST	HAD
BLACK, P ✓	P.I.	HAD
LEIGHTON, P ✓	SCIENTIST	HAD
ABERSON, S ✓	"	HAD
POPSTEFANIJIA, I ✓	"	HAD
		QUADRANT

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

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

FLT ID: 9809/8H

TIME OFF: 1315Z/1556Z TIME ON: 1404Z/2133Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1010.4/1010.8	29.88/29.91	/1005.7	29.91/29.89

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES	2	
FAST FLT LVL TAPES		
RADAR TAPES		
DOPPLER TAPES		
ODW CASSETTES		
HARD COPIES	1	
AXDT	4	
AXCP		
ODW		
GPS		

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

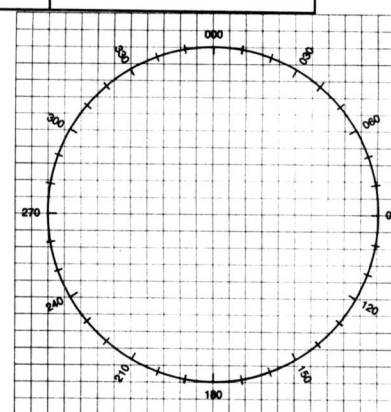
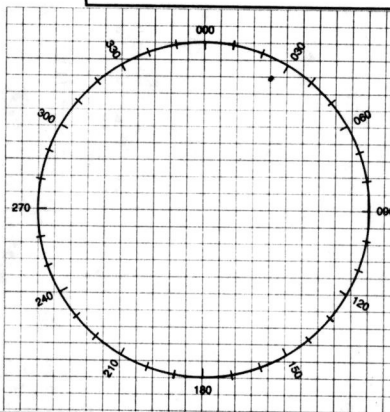
322K - 1223

772

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MISSION LOG

PAGE OF



POSITION REPORT

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

TRANSM
FREQUE
ANY OF

UHF/VCO
243.0

MAYDA
THIS IS

- POSIT

- HEAD

- FLIGHT

- NATU

- PILOT

- WE HA

[illegible]

157.6

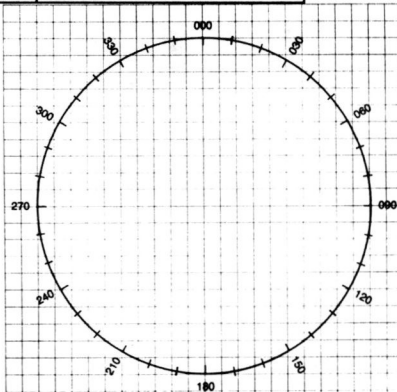
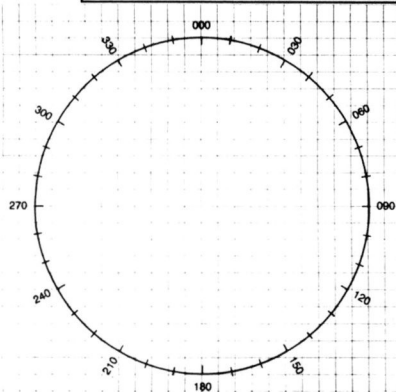
322

1733

7020

OTHER

MISSION LOG	PAGE ____ OF ____
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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
_____ E / W AT _____ Z

- HEADING _____ TRUE/MAG

- AT _____ KTS TRUE/INDICATED

- FLIGHT LEVEL OR ALTITUDE _____

- WE ARE A P-3 AIRCRAFT WITH _____ SOULS ON BOARD

- NATURE OF EMERGENCY _____

- ASSISTANCE DESIRED _____

- PILOT INTENTIONS _____

- WE HAVE _____ ENDURANCE REMAINING

[illegible]

MISSION PREFLIGHT LOG							NAVIGATOR		AIRCRAFT COMMANDER		FLIGHT DIRECTOR		SCHEDULED / ACTUAL TAKEOFF Z		DATE OF TAKEOFF			
DESTINATION		MISSION																
MCF 2100-0400		TRANSIT				RATH/UN		PERRINSON		C247712		1507 1 1000		15 SEP 92				
WP	LAT / LON	RTE	MH	VAR +E=>	TH	DR +R=>	TRK	GS	WD	WS	ALT	TAS	LEG / TOT DIST	LEG / TOT TIME	PROP ETA	ETA	ATA	REMARK
✓ 1	26 31.8 81 46.6																	
✓ 2	25 58.7 81 14.0																	
✓ 3	25 53.6 80 58.5																	
✓ 4	25 48 80 18																	
✓ 5	25 42.3 79 17.7																	
✓ 6	25 41.7 77 27.0																	
✓ 7	24 25.5 74 33.9																	
✓ 8	24 00 70 00																	
✓ 9	24 00 67 00																	
✓ 10	21 00 67 00																	
✓ 11	19 59.5 66 47.9																	
✓ 12	19 28.3 66 24.7																	
✓ 13	17 58.9 65 53.2																	
✓ 14	17 44.1 64 42.1																	
✓ 15	17 02.5 64 01.1																	
✓ 16	16 18.0 63 00.0																	
✓ 17	14 35.4 61 01.4																	
✓ 18	14 02.0 60 28.0																	
✓ 19	12 04.4 59 20.1																	

[illegible]

INS PERFORMANCE		
	INS 1	INS 2
BEGIN ALIGN TIME	1155Z	→
ALIGN STATUS (0-5)	0	0
END NAV TIME	2135Z	→
START NAV TIME	1300Z	→
DELTA T	8-135	8-135

TERMINAL ERRORS		
	INS 1	INS 2
DELTA LAT	-3.1	-3.7
DELTA LON	-3.6	41.7
RGS	3	3
RADIAL ERROR	5	4

[illegible]