

19980923H1-FDIR

Hurricane Georges Recco Flight #1

Flight #13 H980923

<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 RA232 from 0938:01-0950:30. There were several dips in RA159 due to overflying land 1219:01-1222:30 (Haiti), 1321:45-1324:00 (Haiti), 1420:00-1423:00 (Cuba), 1542:00-1543:30 (Haiti), and 1552:00-1601:00. Several spikes in RA159 were removed and patched throughout the flight (1114:00-1115:00, 1122:30-1123:00, 1124:00-1124:30, 1127:00-1128:00, 1134:00-1134:30, 1136:30-1137:00, 1149:00-1149:30, 1210:30-1211:00, 1243:30-1244:00, 1250:00-1250:30, 1259:00-1259:30, 1305:00-1305:30, 1308:30-1309:00, 1319:30-1320:00, 1326:00-1326:30, 1339:30-1340:00, 1343:30-1344:30, 1408:30-1409:30, 1445:00-1446:00, 1506:30-1507:00, 1523:00-1524:00, 1541:30-1542:00, 1612:30-1613:00, 1615:00-1615:30, 1634:00-1635:00, 1635:30-1636:30, 1655:00-1656:00, 1704:00-1705:00, 1707:00-1708:30 (2), 1711:00-1712:00, 1731:00-1731:30, 1845:00-1845:30, 1854:00-1854:30, 1856:00-1856:30, and 1857:30-1858:00 (2)). A spike also occurred just prior to landing and RA159 was set to zero (1908:05-1912:00).

Dynamic slip pressure (DBP) had problems due to possible leak in the line. DBP was replaced by the dynamic pressure on the fuselage (PQF1) with an appropriate offset (1132:01-1140:00, offset 6.2), (1216:30-1230:40, offset 5.9), and (1437:01-1729:30, offset 5.5).

Dewpoint temperature (DW1) exceeded ambient temperature (AT2) several times due to heavy precipitation.

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1009.9	1010.2
Corrected tower pressure	1009.2	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

980923H

413-50

TIME	LOT	LOV	TK	HD	TA	TD	WD	WS	PA	GA	PS	SP	REMARKS
1022	2440	7800	130	130	-2.4	-27.6	158	1.7	5212	5496	525.1	1006.3	ANDRUS ISLAND
11646	2150	7438	130	123	12.2	6.2	62	26.7	2924	3043	707.8	1004.3	LEVEL 10K
135	2058	7346											HUY CON V
204	1907	7317											9 996 m/s
257	1918	7321											9 996 m/s
322	2001	7242											OVER RICE DE TOR
33446	2002	7154	88	102	10.6	8.1	172	56.0	2971	3077	703.6	1005.1	DROP 2
41326	2041	7430	154	145	11.4	7.7	79	40.0	2930	3027	707.4	1003.3	DROP 3 NO WIN
420	2017	7415											OVER CUBA
43555	1923	7339	153	152	11.1	10.3		0.3	2970	3020	703.6	997	DROP 4
436	1929	7340											9
50947	1837	7344	275	276	9.3	9.7	284	34.8	2956	3027	705.0	1002.6	DROP 5
518	1845	7413											RAINBAND
542													OVER PORT SALL
552	1804	7326	272	269	9.1	8.9	261	38.1	2943	3046	706.4		DROP 6
62754	1848	7426	34	24	8.9	9.9	292	32.0	3105	3119	693.3	1001.5	DROP 7 BANK
63208	1822	7505											9 DROP 8
6482	1932	7357											9
7031	1922	7356											9 DROP 9
75129	2227	7521	314	319	-10.9	-25.6	77	29.4	6722	7111	427.1	1002.6	DROP 10 LEVEL

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

FLT ID: 980923H	FM: KOPF	TO: KOPF
FLT NO: 98-079	BLK IN: 1912Z	ATA: 1908Z
ETD: 1000Z	DLK OUT: 0938Z	RTD: 0946Z
ETE: 1900Z	DLK TIME: 9.34 9.6	FLT TIME: 9.24 9.4
SPONSOR ORG: NOAA/NHC	PROGRAM: RECCO	PURPOSE: HURR. GEN. GAGES

OAO PERSONNEL

AC PHILIPPSBURN, R ✓	SYS ENG PHILIPPSBURN, R
CP KENNY, P / TAGGART, B	DATA SYS CARPENTER, D ✓
NAV RATHBUN, D ✓	RADAR ROLES, J ✓
FE BAST, G ✓ / TORREY, R ✓	DT/ODW BARR, J ✓
RADIO ROGERS, M	CLD PHYS
FD CZ424K, S ✓	DOPPLER CURRY, J ✓

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
LEIGHTON, P ✓	SCIENTIST	HRD
BLACK, M ✓	"	HRD
PIPSTEFAJITA, J ✓	COLLECT / VISOR	QUADRANT
VALHORN, E ✓	SCIENTIST	HRD
COOK, B ✓	MEDIA	US NEWS + WORLD

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

6 PENETRATIONS

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

FLT ID: 980923H

TIME OFF: 0946Z

TIME ON: 1908Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1009.9	29.83	1009.2	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	1	
AXDT		
AXCP		
ODW		
GPS	10	

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

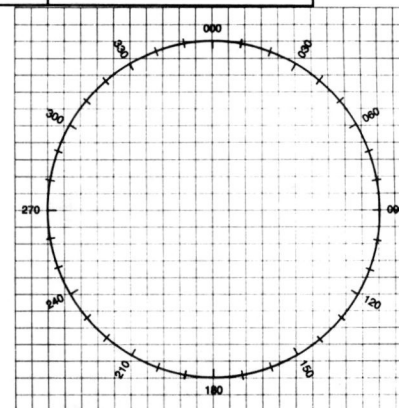
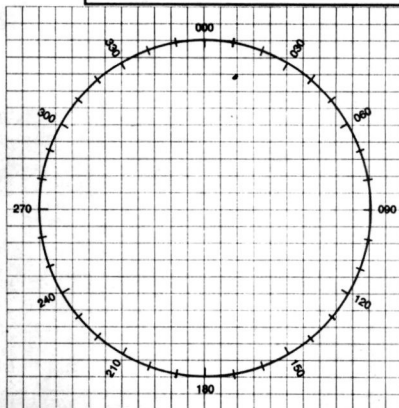
REMARKS

10. 1. 1. 1.

CLEARANCES			
FREQ	ALT	HDG	OTHER
			0548
			512
			1100
			1637
			1921.8 7505.4

MISSION LOG

PAGE OF



POSITION REPORT

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

TR/
FRE
AN\

UH
24:MA
TH

- P

- II

- F

- N

- P

三

[illegible]

194075

207330

1907.4 7316.8

12041

11.5 12.5

MISSION LOG

PAGE ____ OF ____

POSITION REPORT

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

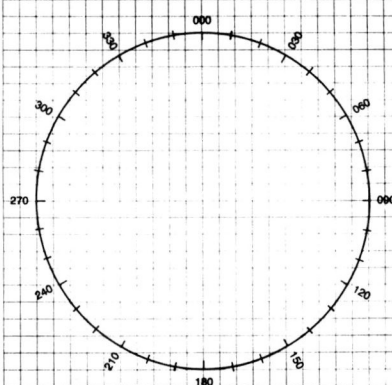
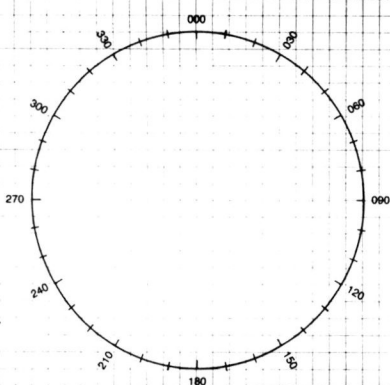
- PILOT INTENTIONS

- WE HAVE _____ ENDURANCE REMAINING

OTHER

1637

7505.4



OSITION	K ERR	INS 2 POSITION	K ERR	MH	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
59.4	+1.1	2459.2	+1.3															RNG START BLOCK OUT TAKE OFF
13.3	+1.2	7823.5	0			139	0	139	280	150	5	17K	285					
0.3	+1.2	2310.0	+1.5															
2.6	+1.4	7612.9	+1.1			130	41R	134	285	055	18	17K	290					
11.0	+1.7	2110.4	+1.3															
58.1	+1.3	7358.6	-1.2			115	6R	121	234	073	35	10K	258					
16.9	+1.5	1906.1	+1.7															
16.8	0	7317.3	-1.5															
54.7	+1.6	1853.4	+1.9															
26.5	+1.4	7427.1	-1.2			063	7R	070	256	318	30	10K	245					
29.6	+1.2	1907.7	+3.1															
0.9	+1.5	7321.8	-1.4															
08.5	-1.1	2006.3	+2.1															
16.6	+1.0	7147.8	-1.2			298	8R	306	284	169	52	10K	248					
0.0	+2.1	2036.2	+4.9															
19.7	+3.0	7431.0	-1.3			141	9R	150	239	081	40	10K	257					DROP
21.8	+2.1	1918.1	+5.8															
38.9	+1.1	7340.5	-1.5			116	2L	114	247	243	13	10K	241					
39.3	+1.1	1835.9	+3.5															
18.8	+1.0	7350.5	-1.7			280	1L	279	209	286	36	10K	244					
05.4	+2.3	1800.3	+7.4															
35.5	+1.0	7337.8	-1.3			090	2L	088	281	259	37	10K	240					
2.1	+1.4	1807.3	+6.2															
17.8	+1.6	7450.4	-1.0			023	8R	031	260	282	32	10K	250					

MISSION PREFLIGHT LOG										NAVIGATOR		AIRCRAFT COMMANDER		FLIGHT DIRECTOR		SCHEDULED / ACTUAL TAKEOFF Z		DATE OF TAKEOFF	
DESTINATION		MISSION																	
KOPF → KOPF		GEORGES				MATHBUN		PHILIPPSBOAN		CZYZYK		1000Z ' 0946Z		23561					
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	REMA	
X OFF	25 54.8 80 17.2																		
2 SKIPS	25 33.2 79 16.1																		
3 SWIMM	25 29.9 79 02.6																		
4 TINKY	24 57.7 78 22.2																		
5 JAYEE	24 26.9 77 44.6																		
6 HOOBY	24 09.7 77 23.8																		
7 RUNNO	22 55.7 75 55.9																		
8 ZIN	20 57.6 73 40.6																		
9 JONES	20 08.5 73 13.3																		
1 S	19 30 73 00																		
2	18 40 75 00																		
3	20 57.6 73 40.6																		
4	22 10.5 75 03.4																		
5	22 55.7 75 55.9																		
6	24 09.7 77 23.8																		
7	24 26.9 77 44.6																		
8	24 57.7 78 22.2																		
9	25 29.9 79 02.6																		
10	25 42.3 79 17.7																		
11	25 51.1 79 37.9																		
2	25 54.8 80 17.2																		

