

19980919H1-FDIR

Hurricane Georges Synoptic Flow/ Ferry to Barbados

Flight #11 H980919

<u>Sensor or system</u>	<u>Number or Name</u>
INE	2
Accelerometer	2
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 1748:21-1820:00. Several spikes in RA159 were removed and patched throughout the flight (1908:00-1908:30, 1937:00-1937:30, 1944:00-1944:45 (2), 1955:30-1956:00, 2005:30-2006:30, 2017:30-2018:00, 2109:31-2110:30, 2204:30-2205:30, 2212:30, 2213:30, 2215:00-2215:30, 2345:00-2345:30, 2346:00-2348:00 (2), 0000:30-0001:00, 0017:30-0018:30, 0028:00-0029:00, 0039:00-0040:00, 0041:00-0042:30, 0045:30-0046:30, 0050:00-0050:30, 0059:30-0100:00, 0106:00-0106:30, 0117:00-0117:30 (2), 0121:00-0122:00, 0127:30-0128:00, 0207:30-0208:30, and 0210:00-0211:00). A spike also occurred just prior to landing and RA159 was replaced by RA232 (0223:34-0230:00).

Total Temperature (TT2) had a dropout (0056:37-0056:53) and was replaced by TT1 with an offset of -0.4.

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 (2348:15-0055:00, offset (5.4) and 0103:58-0125:52, offset (6.0)).

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

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1006.2	1006.4
Corrected tower pressure	1013.0	1013.0

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

TIME	LAT	LON	TK	H0	TA	TD	WD	WS	PA	GA	PS	SP	REMARKS
192128	11 18	58 36	156	153	-2.4	-30.2	37	19.1	5205	5509	525.3	1008.9	LEVEL 17K P
183930	10 00	57 58	94	92	-2.4	-24.8	28	17.4	5207	5503	525.4	1007.8	DROP #1
190647	10 00	55 48	90	88	-2.9	-22.7	21	12.4	5166	5447	528.8	1008.2	DROP #2
193338	10 00	53 36	91	91	-4.0	-13.5	7	3.5	5176	5264	527.7	1011.3	DROP #3
193532	10 00	53 26											CLIMB CANN.
200104	10 05	51 23	88	90	-5.1	-14.8	211	6.2	5482	5793	506.4	1008.9	DROP #4 18K
2019													CLIMB
202214	10 40	49 43	68	70	-5.9	-23.6	165	10.9	5803	6144	484.7	1007.1	DROP #5 LEVEL
203815	11 10	48 29	69	71	-5.8	-25.8	192	8.6	5799	6146	484.9	1007.9	DROP #6
205733	11 49	47 01	3	5	-6.6	-20.8	111	8.1	5794	6150	485.3	1011.1	DROP #7
211751	13 30	47 01	0	2	-8.7	-18.5	132	9.0	6091	6469	465.9	1011.6	DROP #8 LEVEL
213918	15 15	47 00	0	2	-8.6	-16.5	78	7.7	6086	6469	466.3	1011.5	DROP #9
220213	17 01	47 05	266	267	-8.5	-31.8	68	13	6081	6473	466.6	1012.8	DROP #10
222419	18 00	49 00	233	230	-8.8	-16.4	108	18.9	6088	6480	466.0	1013.0	DROP #11
2242													CLIMB
225433	15 29	50 59	179	178	-10.2	-17.6	179	17.8	6425	6873	442.0	1007.1	DROP #12 LEVEL
225445													CLIMB
230424	14 46	51 01	183	184	-10.3	-33.0	182	27.6	6720	7137	427.1	100.3	DROP #13 LEVEL
230424													BT 1
231455	14 00	51 05											DROP #14
232850	14 03	52 16	270	264	-11.8	-21.5	187	32.9	6717	7129	427.2	1006.7	DROP #15 BACK
232958	14 03	52 22											DROP #16
233926	14 04	53 03	316	310	-11.7	-13.9	205	30.8	6				DROP #17
233940													DESCEND
234630	14 31	53 30											LEVEL 15K RA
2348													FIRST BAND
200308	15 25	54 28											DROP #18
200918	15 40	54 47											DROP #19 TOGETHER
201120	15 42	55 00											BT 2
2017	16 09	55 34											DROP #20
203232	15 17	55 28											NW OF ETERN DWP #21
203232	J	J											DROP #22
203936													DROP #23
203904	15 39	55 09											DROP #24 + 01
2040	15 43	55 06											G
204746	15 53	54 54											DROP #25
204715	15 57	54 52											DROP #26 + BT
205200	16 21	54 38											DROP #27
205													DROP #28
205													DESCEND 10K
205													CLIMB 15K
2112	15 46	55 14											DROP #29
21145	15 36	55 14											DROP #30
2121	15 11	55 14											DROP #31
2122													DROP #32
2122													CLIMB 15K

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

FLT ID: 980919H	FM: TBB	TO: TBB
FLT NO: 98-077	BLK IN: 0230Z	ATA: 0226Z
ETD: 1730Z	BLK OUT: 1729Z	RTD: 1752Z
ETE: 0230Z	BLK TIME: 9.01 - 9.0	FLT TIME: 8.34 8.6
SPONSOR ORG: NOAA / HRD / NHC	PROGRAM: SYN. FLOW	PURPOSE: HURR. GEORGES

OAO PERSONNEL

AC: PHILIPSBORN, R	SYS ENG: ROLES, J
CP: KENNY, P / TAGGART, B	DATA SYS: [blank]
NAV: RATHBUN, D	RADAR: BARR, J
FE: BAST, S / TORREY, R	BT/ODW: CARPENTER, D
RADIO: ROBENS, M	CLD PHYS: [blank]
FD: CZY, Z / [blank], S	DOPPLER: CURRY, J

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
BLACK, P	PI	HRD
LEIGHTON, P	SCIENTIST	"
ABERSON, S	"	"
GAMACHE, J	"	"
POPSTEFANITZ, I	ESCORT / USOR	QUADRANT

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

6 0011Z 6 0040Z 6 0112Z

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 OROWF2

FLT ID: 98091941

TIME OFF: 1752Z

TIME ON: 0226

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1006.2	1013.0	1006.4	1013.0

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES	2	
FAST FLT LVL TAPES		
RADAR TAPES		
DOPPLER TAPES		
ODW CASSETTES		
HARD COPIES	1	
AXBT	7	
AXCP		
ODW		
GPS	32	

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

21/182
15N 16.0

[illegible]

[illegible]

MISSION PREFLIGHT LOG						NAVIGATOR		AIRCRAFT COMMANDER			FLIGHT DIRECTOR		SCHEDULED / ACTUAL TAKEOFF Z		DATE OF TAKEOFF			
DESTINATION		MISSION																
TTBP → TTBP		560265				RATHBUN		PHILIPSON			CZYLIK		1730E 1752Z		19 SEP 9			
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	REMARKS
9	TTBP 1304.6 5929.5							270				1752Z	205 205	446 440	1838	1835	1839	
1	* 1 10 00 58 00							295					651 856	2714 3+00	2052	2100		
2	* 2 10 00 55 45																	
3	* 3 10 00 53 36																	
4	* 4 10 00 51 24																	
5	* 5 10 00 49 12																	
6	* 6 10 00 47 00							200								2100	2057	
7	* 7 11 45 47 00							290					315 315	1405 1405	2240			
8	* 8 13 30 47 00																	
9	* 9 15 15 47 00																	
10	* 10 17 00 47 00							200					230 545	147 1152	2252			
11	* 11 17 00 49 00																2253	
12	* 12 15 30 51 00							290					180 725	137 0729	2329			
13	* 13 15 00 51 00																	
14	* 14 14 00 51 00							290					145 870	130 07159	2359	2345		
15	* 15 14 00 53 30							250					145 1015	135 08134	0034			
16	* 16 14 30 55 00																	
17	* 17 15 00 56 00																	
18	* 18 15 50 55 00												360 1375	1526 5100	0700			
19	* 19 15 00 55 00							265					290 1665	1410 6+10	0310			
20	* 20 13 04.4 59 29.1																	