

19900830HI-FDIR

1990 ATLANTIC HURRICANE SEASON

FLIGHT #3 (Fig. 4) 900830H N42RF H. GUSTAV

TYPE OF DATA

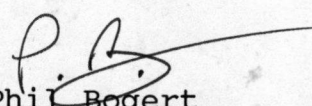
SENSOR OR OPTION

INE	1
Accelerometer	1
Temperature probe	1
Altitude change option (for vertical winds)	RA232
Static pressure	Rosemount (fuselage)
Dynamic pressure	Rosemount (fuselage)
Time source	Micro 29
Constants file	CO2901.CON

Notes:

1. Dew Point wet-bulbing may occur intermittently thruout the flight.
2. INE#1 was utilized for this flight and was not renav'd.
3. J. W. liquid water probe out this flight.
4. PSW very spikey and running abt 5.0 mb low 1845Z - 1920Z.
5. Dew Point balanced 1841Z and 2207Z; was despiked and patched.
6. NOTE: Locations 80, 81 and 82 of record five on the standard tape contains computed vertical ground, vertical air and vertical speeds, respectively, utilizing Dave Jorgensen's vertical wind algorithm...FYI.

	Take Off	Landing
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Aircraft Static Pressure	1015.0mb	1016.1
Corrected Tower Pressure (Alt.)	1014.5mb	1015.0 mb

F/D:  Phil Bogert

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

FLT ID: 900830N	FM: TJSJ	TO: TXKF
FLT NO: 90-48	BLK IN: 2306Z	ATA: 2301Z
ETD: 1630Z	BLK OUT: 1710Z	ATD: 1715Z
ETE: 6+30	BLK TIME: 5+56 (5.9)	FLT TIME: 5+46 (5.8)
SPONSOR ORG: HRD	PROGRAM: H. Research	PURPOSE: fig. 4 H. GUSTAV

OAO PERSONNEL

AC TACKOR	SYS ENG Roles ✓
CP McKim/Kennedy ✓	DATA SYS RAIN ✓
NAV Henderson ✓	RADAR
FE Moore/Wade	BT/ODW GONZALES ✓
RADIO Nunn ✓	CLD PHYS
FD BOGERT ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
KINNEY ✓	Mech.	A.O.C.
Willoughby ✓	P.I.	NRD
MARKS ✓		
M. BLACK ✓		
B. BLACK ✓		

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

IP 27-36N 58-24W EYE 27-36N 57-36W 'GUSTAV'
 ALT 2997/1014.5mb AF: 1501Z 27.1N 57.8W 91KTS 971mb...
 SP - 1015.2mb D.P. Bal @ 1841Z, 2207Z.
 PS - 1015.0mb

2004Z Posit 28-05N 57-36W 962mb
~~1954Z~~ 2035Z Posit 28-16N 57-44W 961mb
 2121Z Posit 28-20N 57-42W 958mb

LAND
 ALT - 2998/1015mb
 SP - 1016.4mb
 PS - 1016.1

59 03 Penetrations

U.S. DEPT. COMM./NOAA/DAO - DATA SECTION WORK FORM NO.2 OROWF2 FILE				
FLT ID: 900830H		TIME OFF: 1715Z		TIME ON: 2301Z
	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE				
NO DATA DISPOSITION/DATE/QUALITY				
1/SEC FLT LVL TAPES	1			
FAST FLT LVL TAPES	0			
RADAR TAPES	0			
DOPPLER TAPES	3			
ODW CASSETTES	2			
HARD COPIES	0			
PMS TAPES	8			
AXBT	0			
AXCP	0			
ODW	5			
PHOTOGRAPHY				
	FWD	LS	RS	VERT
ON	✓	✓	✓	
OFF	✓	✓	✓	
RATE				
REMARKS				

FLT ID: 9008304 TIME OFF: 1715Z TIME ON: 2301Z

WX STN

PRESSURE

DATA DISPOSITION/DATE/QUALITY

1

Ø

~~2~~

3

2

0

78

0

~~2~~

5

	FWD	LS	RS	VERT	
ON	✓	✓	✓		
OFF	✓	✓	✓		
RATE					

VERT

✓

U

DATE	DESCRIPTION	AMOUNT	BALANCE
1/1/58	Balance		100.00
1/15/58	Deposited	50.00	150.00
2/1/58	Withdrawal	25.00	125.00
2/15/58	Deposited	75.00	200.00
3/1/58	Withdrawal	100.00	100.00
3/15/58	Deposited	50.00	150.00
4/1/58	Withdrawal	75.00	75.00
4/15/58	Deposited	25.00	100.00
5/1/58	Withdrawal	50.00	50.00
5/15/58	Deposited	25.00	75.00
6/1/58	Withdrawal	25.00	50.00
6/15/58	Deposited	50.00	100.00
7/1/58	Withdrawal	75.00	25.00
7/15/58	Deposited	25.00	50.00
8/1/58	Withdrawal	50.00	0.00
8/15/58	Deposited	25.00	25.00
9/1/58	Withdrawal	25.00	0.00
9/15/58	Deposited	50.00	50.00
10/1/58	Withdrawal	75.00	0.00
10/15/58	Deposited	25.00	25.00
11/1/58	Withdrawal	25.00	0.00
11/15/58	Deposited	50.00	50.00
12/1/58	Withdrawal	75.00	0.00
12/15/58	Deposited	25.00	25.00
1/1/59	Withdrawal	25.00	0.00
1/15/59	Deposited	50.00	50.00
2/1/59	Withdrawal	75.00	0.00
2/15/59	Deposited	25.00	25.00
3/1/59	Withdrawal	25.00	0.00
3/15/59	Deposited	50.00	50.00
4/1/59	Withdrawal	75.00	0.00
4/15/59	Deposited	25.00	25.00
5/1/59	Withdrawal	25.00	0.00
5/15/59	Deposited	50.00	50.00
6/1/59	Withdrawal	75.00	0.00
6/15/59	Deposited	25.00	25.00
7/1/59	Withdrawal	25.00	0.00
7/15/59	Deposited	50.00	50.00
8/1/59	Withdrawal	75.00	0.00
8/15/59	Deposited	25.00	25.00
9/1/59	Withdrawal	25.00	0.00
9/15/59	Deposited	50.00	50.00
10/1/59	Withdrawal	75.00	0.00
10/15/59	Deposited	25.00	25.00
11/1/59	Withdrawal	25.00	0.00
11/15/59	Deposited	50.00	50.00
12/1/59	Withdrawal	75.00	0.00
12/15/59	Deposited	25.00	25.00
1/1/60	Withdrawal	25.00	0.00
1/15/60	Deposited	50.00	50.00
2/1/60	Withdrawal	75.00	0.00
2/15/60	Deposited	25.00	25.00
3/1/60	Withdrawal	25.00	0.00
3/15/60	Deposited	50.00	50.00
4/1/60	Withdrawal	75.00	0.00
4/15/60	Deposited	25.00	25.00
5/1/60	Withdrawal	25.00	0.00
5/15/60	Deposited	50.00	50.00
6/1/60	Withdrawal	75.00	0.00
6/15/60	Deposited	25.00	25.00
7/1/60	Withdrawal	25.00	0.00
7/15/60	Deposited	50.00	50.00
8/1/60	Withdrawal	75.00	0.00
8/15/60	Deposited	25.00	25.00
9/1/60	Withdrawal	25.00	0.00
9/15/60	Deposited	50.00	50.00
10/1/60	Withdrawal	75.00	0.00
10/15/60	Deposited	25.00	25.00
11/1/60	Withdrawal	25.00	0.00
11/15/60	Deposited	50.00	50.00
12/1/60	Withdrawal	75.00	0.00
12/15/60	Deposited	25.00	25.00
1/1/61	Withdrawal	25.00	0.00
1/15/61	Deposited	50.00	50.00
2/1/61	Withdrawal	75.00	0.00
2/15/61	Deposited	25.00	25.00
3/1/61	Withdrawal	25.00	0.00
3/15/61	Deposited	50.00	50.00
4/1/61	Withdrawal	75.00	0.00
4/15/61	Deposited	25.00	25.00
5/1/61	Withdrawal	25.00	0.00
5/1			

REMARKS

29-35 20PPS
63-21

FLIGHT PLAN

PROPOSED T.O.

1230 L
1630 Z

ACTUAL T.O.

1705 Z

WAY POINT	TO	RTE	ALT	TAS	TC	W DC	V	TH	VAR	MH	GS	ZONE DIST	TOTAL DIST	ZONE TIME TOTAL	PROPOSED ETA	ETA	
																ATA	
1	27-36 58-24										280	700	700	2+30 2+30	1935	1940	
2	28-05 56-40										240	100	800	+25 2+55			
3	28-42 56-55										260	38	838	+09 3+04			
4	27-40 58-17										245	100	938	+24 3+28			
5	27-26 57-40										280	38	976	+08 3+36			
6	29-08 57-40										260	100	1076	+23 4+00			
7	29-35 63-21	LOPPS									290	315	1391	+05 5+05	CTA	2220	
8	32-21.8 64-41.4	BDA									280	180	1570	+39 5+45	BDA	2300	
9	23-00 61-00	SSU 6										310		6+00		1840	
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	

SYS	BEGIN ALIGN TIME	NCS CONN	Ω AID	TIME OUT OF COARSE	ALIGN STS 0-5	(1) TIME INTO NAV.	(2) TIME OUT NAV.	ΔT (2)(1)	TERMINAL ERRORS		
				ELAPSE ALIGN POST TIME					LAT	LONG	G S
INS 1		N _D	N _D		0	1705	2308	6+03	-2.5	+3.1	0 ✓
INS 2 IMU		N _D	N _D		0	1705	✓	6+03	+7.1	+0.4	1

ALIGN REMARKS:

OTHER REMARKS: No Loran-C

A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME		
TKNOR	HENDERSON	NARRE	900830H	1715Z	SAN JUAN	30 Aug 90	"GUSTAV"		
TIME OF ENTRY	POSITION	TYPE INE USED	INE #1 POSITION	LAT LON COR'S	INE #2 POSITION	LAT LON COR'S	ALT GS	TH TK	REMARKS
1705	18-26.3 66-00.9	4 1	18-26.3 66-00.9	φ φ	18-26.3 66-00.9	φ φ	X X	X X	BLOCKS
1841		9 1	23-16.0 60-53.0		23-15.4 60-53.2		19.0 315	026 026	
1930		9 1	26-57.4 58-43.5		26-55.7 58-45.5		17.0 303	019 028	
2004		9 1	28-02.7 57-36.3		27-59.9 57-37.1		10.5 274	088 090	△ #1 28-05 57-36
204115		9 1	28-15.6 57-39.4		28-12.0 57-40.1		10.4 249	241 239	△ #2 28-16 57-40
212043		9 1	28-20.6 57-42.2		28-15.2 57-44.0		10.4 265	011 010	△ #3 28-20 57-42
2308	32-21.9 64-40.2	4 1	32-19.4 64-37.1	-2.5 +3.1	32-11.3 64-39.8	+7.1 +0.4	X X	X X	BLOCKS RGS #1/0 #2/1
ATC CLEARANCE: CAF 75.0 Ex 19.0/10 120.9 216450 075 } TO CL/TO 12075 79.0									
DNE 230 K15 7FL150 29.98 1542 SQ 13000 Rpt 60 DME									
7FL20.0 PD 15.0 29.98 1250 R315 11.5									
ENROUTE CLEARANCES: CL 11530 RPT 3 w/center L305									
2225 PAN-1111 CL/LAND									
TYPE OF FIX: (1) DR (2) RADIO (3) CELESTIAL (4) VISUAL (5) LORAN (6) RADAR (7) DOPPLER - INERTIAL (8) OMEGA (9) INERTIAL (10) OMEGA - INERTIAL									
Area #3									