

# 19900828HI - FDIR

## 1990 ATLANTIC HURRICANE SEASON

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FLIGHT #1      900828H<sup>1</sup>      N42RF      H. GUSTAV

TYPE OF DATA

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SENSOR OR OPTION

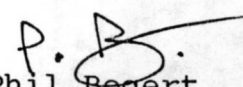
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INE	1
Accelerometer	1
Temperature probe	1
Altitude change option (for vertical winds)	RA232
Static pressure	Rosemount (fuselage)
Dynamic pressure	Rosemount (fuselage)
Time source	Micro 29
Constants file	CO2901.CON

Notes:

1. Dew Point wet-bulbing did occur intermittently thruout this flight.
2. Dew Point balanced at 2148Z, was edited and patched.
3. INE#1 was utilized for this flight and it was renav'd (2 pts).
4. King L.W. probe down after 1845Z.
5. 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	1014.5mb	1014.5
Corrected Tower Pressure (Alt.)	1013.0mb	1013.2 mb

F/D:   
Phil Bogert

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

FLT ID: 900828H2	FM: TJSU	TO: TJSU
FLT NO: 90-46	BLK IN: 0038Z	ATA: 0032Z
ETD: 1630Z	BLK OUT: 1620Z	RTD: 1425Z
ETE: 8+00	BLK TIME: 8+18(8.3)	FLT TIME: 8+07(8.1)
SPONSOR ORG: HRD	PROGRAM: H. RESEARCH	PURPOSE: H. GUSTAV
OAO PERSONNEL		EYEWALL EVOLUTION

AC Ticknor	SYS ENG Roles
CP McClim/Kennedy	DATA SYS RAIN
NAV Moore/Wade	RADAR
FE Henderson	BT/ODW Gonzales
RADIO McFadden ✓	CLD PHYS
FD Bogert	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON R/C	AFFILIATION
BURPEE		
MARKS		
Willoughby ✓		
R. BLACK ✓		
M. BLACK ✓		
H. S. O. B.		

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

Venty 21N 58W & 50NM RADIUS legs w/ EYEWALL EVOL.

T.O: ALT - 2993/1013.0      AF fix 1705Z 21.0N 58.0W  
 SP - 1014.2 mb      KING L.W. ↓ ~ 1845Z  
 PS - 1014.5 mb      D.P. BAL @ 2148Z

Land: ALT 2992/1013.2  
 SP - 1014.0 mb  
 PS - 1014.5 mb

07 PENETRATIONS



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

FLT ID: 90082842 TIME OFF: 1625Z TIME ON: 0032Z

	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	7	
ODW CASSETTES	5	
HARD COPIES	5	
PM TAPES	13	
AXBT	0	
AXCP	0	
ODW	6	

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

REMARKS

King L.W. → 1845Z

N 21-00.0  
W 59-00.0

# FLIGHT PLAN

1230 L

790

PROPOSED T.O. 1630 ~~Z~~  
ACTUAL T.O. 1625 ~~Z~~

WAY POINT	TO	RTE	ALT	TAS	TC	W	V	TH	VAR	MH	GS	ZONE DIST	TOTAL DIST	ZONE TIME	TOTAL TIME	PROPOSED ETA	ETA
																	ATA
1	STT 18-21.5 65-01.5										240	82	80	+20	1641	1641	
2	PJM 18-02.3 63-07.1										250	111	193	+26	1705	1640	
3	21.0 59.0										275	350	543	+46	1810	1705	
4																	
5																	
6	22-20 57-55																
7	22-12 58-15																
8	20-48 56-43																
9	STJ																
1	21-30 59-00																
2	21-20 56-50																
3	22-15 57-05																
4	20-45 58-40																
5	20-45 57-45										2400						
6	22-38 57-47										1615						
											825						
2	PJM																
3	STT																
4	STJ																

SYS	BEGIN ALIGN TIME	NCS CONN	Ω AID	TIME OUT OF COARSE ELAPSE ALIGN POST TIME	ALIGN STS 0-5	(1) TIME INTO NAV.	(2) TIME OUT NAV.	ΔT (2)(1)	TERMINAL ERRORS		
									LAT	LONG	GS
INS 1		No	No		1	1615	0040	8+25	-10.5	+3.4	6 ✓
INS 2 IMU		No	No		1	✓	✓	8+25	-28.5	+10.7	5

ALIGN REMARKS:

OTHER REMARKS: No Swa-c



A/C COMMANDER TICKNOR	NAVIGATOR HENDERSON	A/C NO. NA2RF	MISSION NO. 900828H	TIME AIRBORNE 1625 Z	LOCATION SAN JUAN	DATE 28 Aug 90	PROJ. NAME "GUSTAV" HRD
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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
1615	18-26.3 66-00.9	4 1	18-26.3 66-00.9	∅	18-26.3 66-00.9	∅	X	X	Blocks
1706	18-02.3 63-07.1	4 1	18-01.4 63-04.7	+0.9 +2.4	18-01.9 63-02.7	-0.4 +4.4	17.0 281	057 098	PJM
1803		9 1	20-41.5 59-26.1		20-43.6 59-26.5		12.6 277	050 054	
1907		9 1	21-15.0 57-50.2		21-19.6 57-49.5		10.0 205	227 225	
2043		9 1	20-40.3 56-49.8		20-49.0 56-48.6		10.0 295	017 020	
2211		9 1	22-28.1 56-54.0		22-40.2 56-51.1		10.0 220	239 248	
2231		9 1	21-59.5 57-43.2		22-13.0 57-39.1		10.0 247	182 179	△ N 22-00 W 57-44
2359		9 1	19-13.8 63-55.0		19-30.4 63-48.2		18.0 299	250 247	
0040	18-26.3 66-00.9	4 1	18-36.8 65-57.5	-10.5 +3.4	18-54.8 65-50.2	-28.5 +10.7	X	X	Blocks #1/6 TRGS #2/5

ATC CLEARANCE: 060 75.0 717.0 / 5min 1304 SQ C/LD 79.0 R120 717.0 718.0  
 ↓ 10.0 2992 ↓ 5.0 L210 R250 R270 ↓ 3.1 ↓ 1.6 R310  
 Robo C/LD

ENROUTE CLEARANCES:

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

21-10  
57-55  
21-20  
57-55  
1506