

19930828I-FDIR

HURRICANE EMILY

FLIGHT #02 OF 05 I930828 (VORT.ENVIRON INTERACT)

TYPE OF DATA

SENSOR OR OPTION

INE	1
Accelerometer	1
Temperture probe	TT1
Altitude change option (for vertical winds)	RA (APN-159)
Static pressure	Rosemount fuselage
Dynamic pressure	Rosemount fuselage (1221)
Time Source	Micro 29
Constants file	CO3931.CON

Notes:

THIS FLIGHT WAS RENAV'D UTILIZING GPS POSITIONS.

OCCSIONAL DEWPOINTER WET-BULBING MAY OCCUR ON ANY GIVEN FLIGHT WHEN IN VERY MOIST CONDITIONS.

THERE WERE DATA GAPS AT THE FOLLOWING TIMES: NEAR LANDING...

TT2 DOWN AT 201200Z - 201530Z AND GENERALLY NOT RESPONDING AS WELL AS TT1 TO THE RISING TEMPERATURES NEAR THE 'EYE'.

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.

	Take off ----- (TXKF)	Landing ----- (TXKF)
AIRCRAFT STATIC PRESSURE	1019.8mb	MISSING-DAT SYS DOWN
AIRCRAFT SURFACE PESSURE	1020.1mb	"
CORRECTED TOWER PRESSURE	1021.3mb	"

FLIGHT METRO: PHILIP D. BOGERT

PROPOSED T.O. 18002

ACTUAL T.O.

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	1600	/	/	/	0	1751	0005	6+14	-1.7	-.2	5 ✓
INS 2 IMU	1600	/	/	/	0	1751	0005	6+14	+1.7	+1.8	5

ALIGN REMARKS:

OTHER REMARKS:

A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME		
CPT MPRIM	LT NOZAK LT KATHRIN	NH3RF	03-62	1805	EOA-ROD	28 AUG 93	FAMILY		
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
1753 1757 1805	N 3222.0 W 6441.6	GPS 1	N 3221.9 W 6441.6	+1 -	N 3221.9 W 6441.6	+1 -			ENG START TAXI TAXI FEE PDOP 2.7
1830	3120.6N 6614.6W	GPS 1	3120.7N 6615.2W	-1.1 -1.6	3121.1N 6614.9W	-1.5 -1.3	17K 287	225 232	PDOP 2.7
1849	3039.4N 6742.1W	GPS 1	3040.1N 6742.2W	-1.7 -1.1	3040.6N 6742.9W	-1.2 -1.8	17K 273	176 180	TURN SOUTH 1ST LEG PDOP
1922	2812.1N 6753.3W	GPS 1	2813.2N 6753.3W	-1.1 0	2813.1N 6753.9W	-1.0 -1.6	17K 245	190 181	PDOP 2.1 S
1945	2759.4N 6700.0W	GPS 1	2800.4N 6700.6W	-1.0 -1.6	2759.7N 6700.7W	-1.3 -1.7	17K 319	051 045	PDOP 2.1
2001	2812.5N 6756.5W	GPS 1	2813.5N 6757.7W	-1.0 -1.9	2812.9N 6757.6W	-1.4 -1.8	17K 258	276 208	PDOP 2.2 S
2032	2925.4N 6953.7W	GPS 1	2927.8N 6953.6W	-2.4 +1.1	2927.3N 6953.9W	-1.9 -1.2	180 259	347 343	PDOP 2.3
2107	2903.7N 7024.6W	GPS 1	2904.5N 7024.4W	-1.8 +1.2	2903.9N 7024.4W	-1.2 +1.2	150 306	183 150	PDOP 2.2
2155	2829.9N 6753.7W	GPS 1	2831.7N 6754.5W	-2.8 -1.8	2829.5N 6754.5W	-1.6 -1.8	180 249	066 051	PDOP 2.4 S
2233	2833.2N 6801.5W	GPS 1	2834.5N 6801.2W	-1.3 +1.3	2832.6N 6800.4W	+1.6 +1.1	180 287	157 153	PDOP 2.3 S
2321	2936.0N 6505.8W	GPS 1	2939.7N 6505.9W	-3.7 -1.1	2936.4N 6505.7W	-1.4 +1.1	180 314	011 007	PDOP 2.4
0002									LAND
ATC CLEARANCE: 30.16 TAXY RWY 12 AS									
2812.5 6756.3 2.2									
2233									
ENROUTE CLEARANCES: 28 33.2									
2824.4 N 21532 68 1.5									
2718.1 6759.7W									
5753.3									
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									
19302 N 2802 W 6742 N 2812.1 W 6751									

FLT ID: 930828T	FM: TXKF	TO: TXKF
FLT NO: 93-062	BLK IN: 29/0007Z	ATA: 29/0000Z
ETD: 1815Z	BLK OUT: 1757Z	RTD: 1804Z
EYE: 8+30	BLK TIME: 6410(6.2)	FLT TIME: 5+57 (6.045)
SPONSOR ORG: HRD	PROGRAM: H. Research	PURPOSE: Emily

OAO PERSONNEL

AC MCKIM	SYS ENG GOLDSTEIN
CP RULLPPSBORN	DATA SYS LYNCH
NAV RATHBUN / KOZAK	RADAR
FE BAST / MOORE	BT/ODW PRADAS / MCMILLAN
RADIO SANS SOUCI	CLD PHYS
FD BOGERT	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
McFadden	None	AOC
R. Burpee	P.I.	HRD
J. Gentry		"
J. FRANKLIN		
F. MARKS		
	17 S.O.B.	

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

6 28.2N 67.6W 19Z Ip 160nm North 30-50N 67-36W

Alt 3016/1021.3 Emily mvg NW w/ ONLY NW Semi-circle

SP - 1020.1 eyeball! PSBL Cutter wall forming.

PS - 1019.8 mbs

ALT - SYS ↓

SP -

PS -

49 Penetrations

U.S. DEPT. COMM./NOAA/ORA - DATA SECTION WORK FORM NO.2 DROWF2 FILE

FLT ID: 930828I

TIME OFF: 18042

TIME ON: 00002

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE				

NO

DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES

FAST FLT LVL TAPES

RADAR TAPES

DOPPLER TAPES

ODW CASSETTES

HARD COPIES

DAYS

1
0
7
0
0
0
0
1

AXBT

AXCP

ODW

14DW's

0
0
9
2

PHOTOGRAPHY

	FWD	LS	RS	VERT	
ON					
OFF					
RATE					

REMARKS

USCOMM-1

N43 fix 19212
 ② 20012
 ③ 21532
 ④ 22332

28 Aug 93
 ODS DROPS

72
 5 (9)

PT#1 18482 30-41N 67-42W CH#1 5-7 winds

Blu 18532

LD2

PT#2 19012 29-43N 67-42W ↓ CH#3 Blu CH#2 190532

PT#3 - 19352 27-20N 67-43W CH#1 (TK 0450)

PT#4 ~ 1948302 28-13N 66-56W CH#3

PT#5 ~ 20102 28-13N 68-41W CH#2 (TK 315)

PT#6 - 20252 29-01 69-36W CH#1

PT#7 ~ 2044452 29-55N 70-22W CH#3

PT#8 21212 26-56N 70-18W CH#1 ✓ ↑

↑ ODS 1 21222

-TURN PT#7

PT#8 ~ 2143302

N43 fix LD2 ✓ ↑
 21552 fix 21532
 28-29N 28-24N
 67-54W 68-00W

PT#9 22042

PT#10 22012

N43 fix 22332
 28-33N
 68-02W

N42
 fix
 22342
 28-35
 68-08