

19900831H1.FDIR

1990 ATLANTIC HURRICANE SEASON

FLIGHT #4 (Energenics-low) 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 did occur routinely thruout this flight.
2. INE#1 was utilized for this flight and was not renav'd.
3. PSF very spikey and problematic 1955Z - 2024Z; not patched.
4. DBP very spikey and problematic 1912Z - 1916Z, 1835Z - 1837Z; both instances were despiked and patched.
5. Dew Point balanced 1605Z; 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	1018.7mb	1020.5
Corrected Tower Pressure (Alt.)	1016.8mb	1018.0 mb

F/D:


Phil Bogert

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.1 DROWF1 FILE

FLT ID: 900831H	FM: TXKF NAS BER	TO: TXKF NAS BER
FLT NO: 90-49	BLK IN: 010011Z	ATA: 010005Z
ETD: 1500Z	BLK OUT: 1454Z	RTD: 1514Z
ETE: 9400	BLK TIME: 9417 (9.3)	FLT TIME: 8451 (8.8)
SPONSOR ORG: HRD	PROGRAM: H. Research	PURPOSE: H. GUSTAV

OAO PERSONNEL

"ENERGENICS"

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

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
MARKS ✓		
B. BLACK		
m. BLACK ✓		
✓ LT. CHRIS KENT	V.I.P.	NAVAL WX SVC
✓ AG3 Ann. Fordham	"	"

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

ENR GUSTAV VCNTY 32N 57W; ENERGENICS - Inside...

ALT 3004/1016.8mb

D.P. BAL 1605Z

SP - 1018.9 mb

1. POSIT 1649Z 32-45N 56-46W 960mb 80KTS

PS - 1018.7 mb

2. POSIT 1753Z 32-54N 56-43W 960mb

- land -

3. POSIT 1919Z 33-13N 56-25W 960mb

4. POSIT 2028Z 33-27N 56-12W 960mb

ALT 3007/1018mb

5. POSIT 2120Z 33-40N 56-00W 965mb 5000'

SP - 1020.7 mb

6. POSIT 2159Z 33-51N 56-01W 965mb "

PS - 1020.5 mb

7. POSIT 2230Z 34-00N 55-55W 20K...

59 07 PENETRATIONS

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

FLT ID: 9008314 TIME OFF: 1514Z TIME ON: 01/0005Z

	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	Ø	
RADAR TAPES	Ø	82400' 61200'
DOPPLER TAPES	14	
ODW CASSETTES	2	
HARD COPIES	Ø	
PMS TAPES	25	
AXBT	20	18 (3 BAD)
AXCP	Ø	
ODW	5	ALL GOOD...

PHOTOGRAPHY

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

REMARKS

PROPOSED T.O. 15007 3140690
ACTUAL T.O. 15137 ✓

[illegible]

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	GS
INS 1	—	100	100	—	0	14462	00102	9+15	+3.7'	+0.9'	2v
INS 2 IMU	—	✓	✓	—	1	✓	✓	✓	-12.9'	+6.2'	4

OTHER REMARKS:

A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME		
TICKNOR	WHITE	N42RF	90-049	1513	TXKF	31 AUG 1990	GUSTAO		
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
1446Z	33°21.9' 64°40.2'	4 #1	✓	—	✓	—	—	—	START
1557	—	—	33°28.0' 61°17.0'	—	33°28.8' 61°17.8'	—	17K 305	105	MOT HEIGHT → IP#1
1635	—	—	32°31.7' 57°58.4'	—	32°34.0' 57°58.0'	—	10K 246	081	IP ODW
1649	—	—	32°45.0'N 56°46.0'W	—	—	—	✓	—	EYE
1709	—	—	31°50.2' 56°46.8'	—	31°53.7' 56°48.0'	—	✓	—	ODW
1752	—	—	32°53.5' 56°43.3'	—	32°58.4' 56°43.7'	—	✓	—	EYE 32°54'N 56°43'W
1755	—	—	32°55.4' 56°41.6'	—	33°00.3' 56°42.1'	—	✓	—	EYE
1752	—	—	32°58.8' 56°39.7'	—	33°03.9' 56°40.2'	—	✓	—	ODW
1835	—	—	32°57.5' 57°48.1'	—	33°03.6' 57°50.3'	—	✓	—	IP#2
1919	—	—	33°13.1' 56°25.4'	—	33°20.4' 56°25.0'	—	✓	—	EYE 33°13'N 56°25'W
1947	—	—	33°19.3' 55°13.3'	—	33°29.1' 55°14.1'	—	✓	—	ODW
2015	—	—	34°20.6' 56°12.9'	—	34°31.1' 56°14.0'	—	✓	—	ODW
ATC CLEARANCE: C HEIGHT RV → 33N 57W 33N 5630W Delay									
170K 128.5 SQ 5542 30.04" 160LD SHORT POS+HOLD									
CFT 31/1341 32.1N 57.1W 962MB 95Kts									
ENROUTE CLEARANCES: 32.7 56.7 5K 30.03" ILS 30									
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									

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
2028	—	— #1	33° 27.2' 56° 12.4'	—	33° 37.9' 56° 12.4'	—	102	— 270	33° 27' N EYE 56° 12' W
2051	—	— ✓	32° 58.5' 56° 59.3'	—	—	—	52	— VAR	BT1 BAD
2052	—	— ✓	32° 48.8' 56° 55.2'	—	33° 00.1' 56° 53.8'	—	✓	— VAR	BT2
2107	—	— ✓	33° 04.6' 56° 39.1'	—	33° 16.6' 56° 38.1'	—	✓	— 045	BT3
2114	—	— ✓	33° 24.6' 56° 24.0'	—	33° 37.1' 56° 23.2'	—	✓	— 045	BT
2120	—	— ✓	33° 39.7' 56° 03.3'	—	33° 52.7' 56° 02.6'	—	✓	— 045	33° 40' N BT/EYE 56° 00' W
2129	—	— ✓	34° 05.5' 55° 31.8'	—	34° 19.3' 55° 30.9'	—	✓	— 045	BT
2143	—	— ✓	34° 23.4' 55° 56.4'	—	34° 37.7' 55° 54.7'	—	✓	— VAR	BT
2151	—	— ✓	34° 08.8' 56° 28.6'	—	34° 23.2' 56° 26.4'	—	✓	— 135	BT
2153	—	— ✓	34° 02.1' 56° 21.3'	—	34° 16.5' 56° 18.9'	—	✓	— 130	BT
2159	—	— ✓	33° 57.4' 56° 01.2'	—	34° 05.8' 55° 58.6'	—	✓	— 135	33° 51' N BT EYE 56° 01' W
2200	—	— ✓	33° 48.8' 55° 58.1'	—	34° 03.2' 55° 57.5'	—	✓	— 135	BT
2205	—	— ✓	33° 34.9' 55° 41.3'	—	33° 49.3' 55° 38.5'	—	✓	— 135	BT
2206	—	— ✓	33° 29.5' 55° 34.8'	—	33° 44.0' 55° 32.0'	—	✓	— 135	BT
2209	—	— ✓	33° 22.5' 55° 36.5'	—	33° 36.9' 55° 23.6'	—	✓	— 135	BT
2211	—	— ✓	33° 17.8' 55° 20.9'	—	33° 32.2' 55° 17.9'	—	✓	— 135	2214 33° 11.8' 55° 07.5' BT 2215 33° 14.4' 55° 05.6'
2230	—	— ✓	33° 59.9' 55° 54.5'	—	34° 14.6' 55° 51.3'	—	✓	— 045	34° 00' N ODW 55° 55' W
00	32° 21.9' 64° 40.2'	4 #1	32° 18.2' 64° 39.3'	+3.7' +0.9'	32° 34.8' 64° 34.0'	-12.9' +6.2'	—	—	STOP
3418 21.7 12.9									