

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

FLT ID: 960814H	FM: MCF/OPF	TO: OPF/BPB
FLT NO: 96-0	BLK IN: 2241	ATA: 1750/2241
ETD: 1500	BLK OUT: 1448/1726	ATD: 1503/1732
ETE: 5+45	BLK TIME:	FLT TIME: 5+09
SPONSOR ORG: NOAA	PROGRAM: HRD	PURPOSE: Cyclogenesis

OAO PERSONNEL

AC PLAYER, G ✓	SYS ENG McMILLAN, S ✓
CP MCKIM, G ✓	DATA SYS
NAV RATHBUN, D ✓	RADAR
FE HOPPER, Y ✓ / WADE ✓	BT/ODW BARR, J ✓
RADIO	CLD PHYS
FD WHITE, S ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
KINNEY, B ✓	AOC	
McFADDEN, J ✓	"	
POPSTEFANIA, I ✓	SCIENTIST	U MASS
POWELL, R ✓	U MASS	U MASS
HONCK, T ✓	U	NCAR
BLACK, P ✓		HRD
FRANKLIN, J ✓		
GAMACHE, ✓		

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

40. GPS 16' 220/6 30/25 -1114 PA 80
9
2

30.07 ≈ 1017.8

EDIT WD/RMS

EDIT RAMS - COMMON2.HU96

0 - 121 AT WD/RMS

0E - 122 ET

ASDL
REC (4 hr)

end of drop away
not

U.S. DEPT. COMM./NOAA/ORD - DATA SECTION WORK FORM NO.2 DROWF2 F11

FLT ID: 960814 H TIME OFF: 1732 TIME ON: 2241

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1017.0 1017.3ms	1017.5 1017.8ms	1007.8	1020.3

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES

FAST FLT LVL TAPES

RADAR TAPES

DOPPLER TAPES

ODW CASSETTES

HARD COPIES

AXBT

AXCP

ODW GPS

Ø

Ø

8

1-bad 1-good 6-Good

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

1 drop
1500, 10k, 18k 1
4 ODW/GPS
2 channels 20m each
1 drop in Precip

1515
2 min
43
5-10
35-40
2000
20
60
3-4 mb high

SW ~~APN 232/19352~~

960814 H

Time	TA	TD	WD	WS	PS	Remarks
1503	31.6	21.4	210	13.0	1017.2	T/O MCF
						LND
1732	36.2	21.0			1017.0	T/O OAF
1733:30	24.9	21.2	102	2.1	965.5	} Intercompare w/ 104321-
1738:30	12.3	2.0	24.8	21.5	964.1	
1739:30						
1751:45						} 11 11
1751:41			358	4.5		
1814:27						
1817:05	-9.0	49.5	212	7.6		GPS sounder gone
1819:00	-9.1	21.0	196	9.5		GPS sounder gone
1820:00	-9.0	22.1	206	8.0		} start, middle, end Intercompare
1821:00	-8.8	22.6	206	6.7		
1840:05	-8.4	26.6	160	6.7		
1850:00	-7.9	28.0	056	2.1		GPS sounder gone
1900:00	-7.3	28.0	060	4.1		GPS sounder gone
1908:40	-11.8	-14.0	053	7.3		GPS sounder gone
1909:30	-11.9	-12.6	102	3.0		GPS sounder gone
1914:50	0.2	-1.6	096	20.0		GPS sounder

960814 H

11/15/96

START: 1730:01

END: 2243:00

BAD BLOCK

✓ 1749:17

✓ 1804:11

✓ 1804:30

1831 ~~1831:03~~ (10, 18, 20, 1es)

✓ 1845:51

✓ 1846:01, 10, 12, 1es

✓ 1913:10, 11, 20, 1es

✓ 2121:16, 20, 22, 30

✓ 2136:11, 30

✓ 2203:40, 41, 50

✓ 2219:51

✓ 2220:10

✓ replace 159 w/ 232

1732:31 - 1738:00 ³⁶

✓ replace 159 w/ GPS

1932:00 - 1938:00

avg of

6800

✓ replace 159 w/ GPS

2125:00 - 21:30:00

avg of

6775

✓ replace 159 w/ GPS

2157:00
~~2206:00~~ - 2206:00

avg of

4850

✓ replace 159 w/ 232

2241:00 - 2243:00

✓ replace 159 w/ GPS

2047:00 - 2056:00

avg of
6775

INE1 w/ GPS

180000 -0.4 -0.2

190000 -1.4 +0.4

200000 -2.5 +0.3

210000 -4.6 +0.6

220000 -4.8 +1.8

224300 -7.0 +2.1

TROP CYCLOGENESIS

FLIGHT #1 H960814

TYPE OF DATA	SENSOR OR OPTION
INE	1
Accelerometer	1
Temperature probe	1
Altitude change option (for vertical winds)	RA159
Static pressure	Rosemount fuselage
Dynamic pressure	Rosemount fuselage
Time source	Micro 99
Constants file	CO2964.CON

Notes:

There were fifteen time/data gaps: 1749:17 1804:11 1804:30
 1831:10 1845:51 1846:01 1846:10 1913:10 1913:12 2121:16
 2136:11 2136:30 2203:40 2219:51 2220:10

RA159 was replace with RA232 or averaged GPS altitude during the following time frames:

1732:31 - 1736:00
 1932:00 - 1938:00
 2047:00 - 2056:00
 2125:00 - 2130:00
 2157:00 - 2206:00
 2241:00 - 2243:00

The King Liquid water probe was inoperable for the entire flight.

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.

	Takeoff	Landing
Aircraft static pressure	1017.0mb	1007.8mb
Corrected tower pressure	1017.5mb	unknown

Flight Meteorologist: Sean White: (813) 828-3310 ext. 3072

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TITLE (MAX 21 CHARACTERS) -- EX HURRICANE PAINE
TROP CYCLOGENESIS
YYMMDDL FLT I.D.
960814H
HHMMSS START TIME -99999 DEFAULT TO START OF DATA FOR PRINTOUT ONLY
173001
HHMMSS END TIME 999999 DEFAULT TO END OF DATA FOR PRINTOUT ONLY
224300
HHMMSS TAKE OFF TIME
173200
* NUMBER OF TAPES (I2) ...FOR STANDARD TAPE OUTPUT ONLY
1
* -----LOGICAL UNIT OF INPUT DATA (I1) 5, 8 OR 9 FOR TAPE DRIVE
9
* -----LOGICAL UNIT OF OUTPUT TAPE DRIVE (I1) [FOR STANDARD TAPE ONLY]
9
* -----LOGICAL UNIT OF PRINTER (I1)
6
* -----DATE OF PROGRAM (MMDY)
06094
* -----STATIC PRESSURE PROBE (I1)
* 1 = PSW (WINGTIP)
* 2 = PSF (CO-PILOT/FUSELAGE)
* 3 = FUTURE USE
2
* -----DYNAMIC PRESSURE PROBE (I1)
* 0 = PQW(WINGTIP)
* 1 = PQF1 (FUSELAGE 1281)
* 2 = PQF2 (FUSELAGE 1221)
* 3 =FUTURE US
1
* -----INE SELECTION (I1)
* 1 = INE 1
* 2 = INE 2
1
* -----ACCELEROMETER (I1) - USUALLY THE SAME AS YOUR INE SELECTION
1
* ----- TOTAL TEMPERATURE PROBE (I1) [1 OR 2]
1
* ----- DEWPONT TEMPERATURE PROBE (I1) [1 OR 2]
1
* -----ALTIMETER OPTION (I1) - FOR VERTICAL WIND COMPUTATION
* 0 = PRESSURE ALTITUDE (OVER LAND)
* 1 = RADAR ALTITUDE APN-159 (OVER WATER)
* 2 = RADAR ALTITUDE APN-232 (OVER WATER)
1
* -----PRINTOUT RATE SECONDS (I2)
10
* -----WINDSPEED/DIRECTION RUNNING AVERAGE TIME, SECONDS (I2)
10 ! FOR STANDARD TAPE OUTPUT ONLY
* -----TIME OPTION (I1)
* 1 = MICRO 29
* 2 = TIME BASED GENERATOR #1
* 3 = TIME BASED GENEATOR #2
1
* -----NAME OF CONSTANTS FILE EX CO3863.CON
CO2964.CON
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DATE : 14. August 1996

TO : Chief, AOC Flight Operations

FROM : Pilot/Flight Director, Aircraft

ON 2244 BLOCKTIME

N42RF

OFF 1726

5.4

SUBJECT: Hazardous Duty

PURPOSE OF FLIGHT: FERRY + INTERCOMPARISON

Hazardous Duty Pay is required for flight made on 14 August 96
(DATE)

Request based on CLOSE FORMATION

WITH N43RF

Personnel on board authorized Hazard Pay:

TORREY, R

WADE, S

KINNEY, B

MCMILLAN, S

BARR, J

MCFADDEN, J

PILOT/FLIGHT DIRECTOR: LCDR SEAN R. WHITE

APPROVED: _____

DISAPPROVED: _____

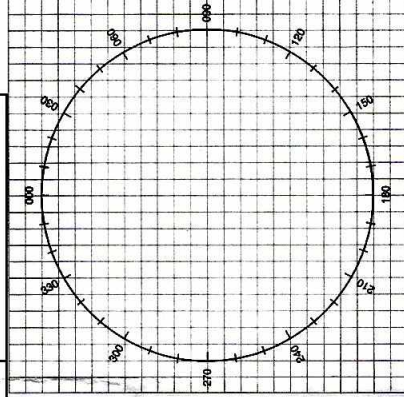
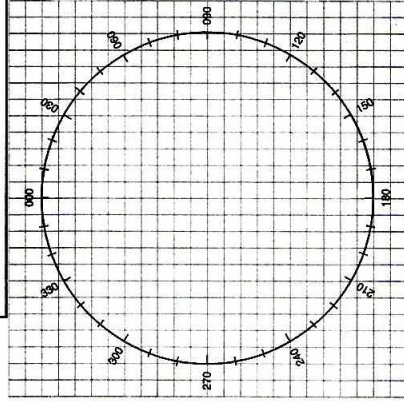
CHIEF, AOC FLIGHT OPERATIONS: _____

CLEARANCES

[illegible]

MISSION LOG

PAGE OF



POSITION REPORT

1. POSITION
 2. TIME
 3. ALTITUDE
 4. NEXT POSITION
 5. ETA
 6. NEXT POSITION

EMERGENCY MESSAGE

TRANSMIT THE FOLLOWING MESSAGE TO ANY AGENCY ON THE AIR-GROUND FREQUENCY IN USE. IF UNABLE TO ESTABLISH COMMS, ATTEMPT CONTACT ON ANY OF THE FOLLOWING EMERGENCY FREQUENCIES:

UHF/VOICE	VHF/VOICE	MF/VOICE	HF/CW	MF/CW
243.0	121.5	2182 KHZ	8364 KHZ	500 KHZ

MAYDAY, MAYDAY, MAYDAY

- POSITION _____ **N/S** _____

- HEADING _____ TRUE/MAG _____

- AT _____ KTS TRUE/INDICATED

- FLIGHT LEVEL OR ALTITUDE

- WE ARE A P-3 AIRCRAFT

- NATURE OF EMERGENCY
- ASSISTANCE DESIRED

- PILOT INTENTIONS

[illegible]

1755.2
065 35.2