

3115

U.S. Dept. of Commerce / NMAO / NOAA / Aircraft Operations Center

Flt ID: 070923 I	From: TISX	To: TISX
Flt. No: 07-028	Blk In: 1515 z	Time On: 1512 z
ETD: 0800 z	Blk Out: 0743 z	Time Off: 0755 z
ETE: 7 + 30	Blk Time: 7 + 32	Flt Time: 7 + 17 (7.3 Hrs)
Sponsoring Org: NOAA-NHC	Program: HURROT	Purpose: TAIL DOPPLER RADAR WINDS

AOC Flight Crew

Aircraft Commander: CHOY, B	Data System: LYNCH, T
Co-Pilot: NELSON, M GIRIMONTE, A	AVAPS: SMITH, J
Navigator: SIEGEL, P	System Eng:
Flight Eng: FLOYD, D KLIPPEL, J	A A: SANS SOUCI, D
Flight Director: FLAHERTY, P ALMEIDA, J	A A:
Avionics: GOLDSTEIN, A	Crew Chief:

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation
GAMACHE, JOHN	PI	HRID
BLACK, Bob	Radar	HRID

2 PENNES

Remarks (Storm Name, Mission ID, Recco Times, Fix Times)

Storm Name: FELIX

Mission ID: NOAA3 1106A

Generation number and time

Recco Times

0912 took down the processing SPMR wind calculations for troubleshooting

1130 J/W ON

TDL INOP 1446 z - 150830

Fix # Fix Time

1709 938mb

1227 942mb

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Flight ID: **070903 I** Time Off: **0755** Z Time On: **1517** Z

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	1015.0 1012.9 mb	29.99 mb	1016.0 mb	30.03 mb

ATIS	Time	Observation
Takeoff	0729Z	060 07kt 10psm 26/22 29.99
Land	1453Z	130.12kt 10psm 31/22 30.03

	Number	Data Disposition / Date / Quality
Flight Level Tapes		
Radar Tapes		
Cloud Physics Tapes / CDs		
Video Tapes		
Dropsondes		Good: Bad:
XBT		
XCP		
XCTD		

Remarks: **EST 2002 LAT/LON @ 1038 14 04 76 35**

SPICE IN
DMA

085237-085243

+ 113508-113512
115103-115106

2498710046

1059-1247

MAN SUB TOM 2

093313-093326

MANUP w/.28

NO 159
INPUT

~~THE SPIKE~~

~~110811 ?~~

~~113504 72~~

~~114050 71~~

~~115100 ?~~

~~115312 71~~

PSF

PQF1

INE/ACC 2

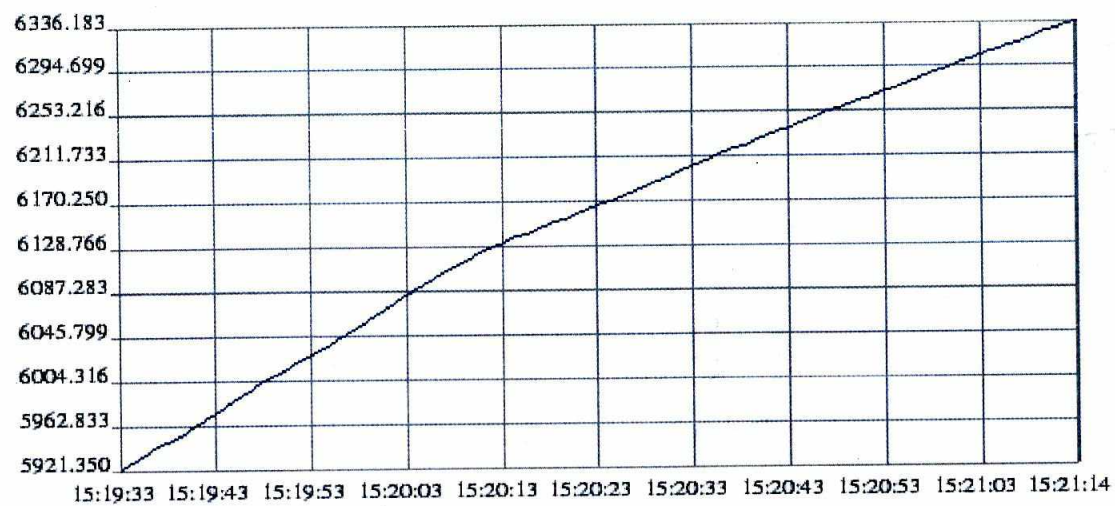
TI 1(2)

TDM 2 X

RA 159

altash: File = 070905I_R.nc From: 15:19:33 To: 15:21:14

Title: Project = , Flight #, Date = 09/05/2007 UTC, Time = 14:30:11-18:48:10



[altash: (meters)] Mean = 6152.878 Sig = 119.758 Var = 14341.902 Min = 5921.350 Max = 6336.183

N42RF AVAPS DROP LOG

Take Off:

Mission: HURT FELIX

Launcher S/N:

Landing :

Flt Dir :

[illegible]

VORTEX DATA MESSAGE

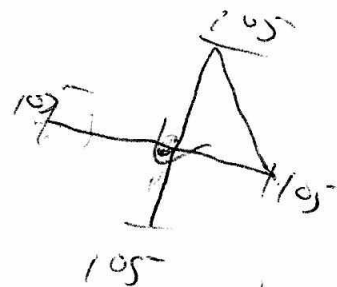
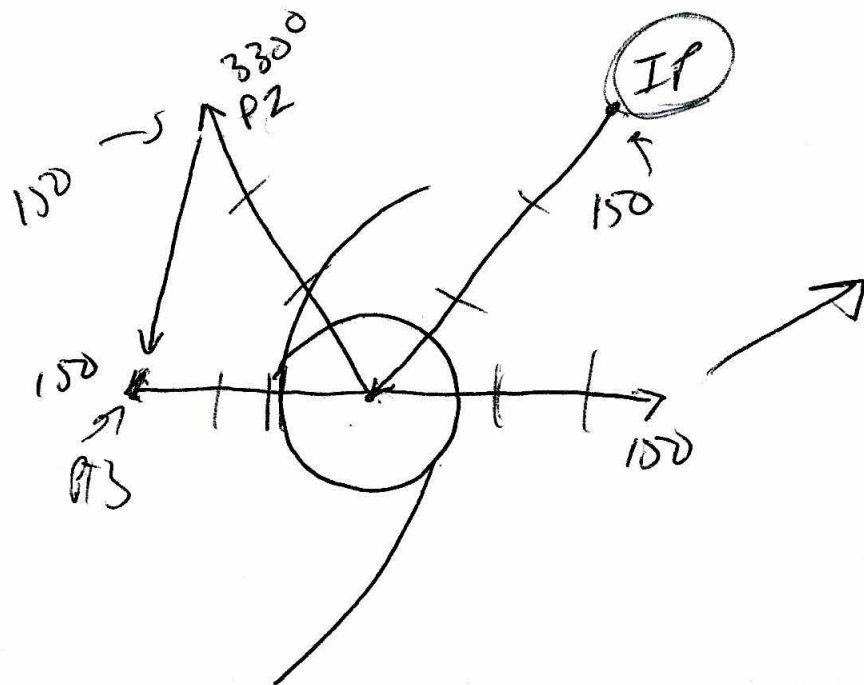
Date 355107	Scheduled Fix Time N/A	Aircraft Number N43	Flight Director FLAHERTY
Mission Identifier: NWAA3 1106A FELIX			OB Number:
A	03 1227 Z	Date and Time of Fix	
B	14 DEG 9 MIN N	Latitude of Fix (If in Southern Hemisphere, use "S")	
	72 DEG 5 MIN W	Longitude of Fix (If in Eastern Hemisphere, use "E")	
C	200 MB 2615 M	Minimum Height of Standard Level	
D	91111 105 KT	Estimate of Maximum Surface Wind Observed (visually)	
E	116 DEG 03 NM	Bearing and Range <u>From</u> Center of Maximum Surface Wind	
F	288 DEG 112 KT	Maximum Flight Level Wind Near Center	
G	196 DEG 3 NM	Bearing and Range <u>From</u> Center of Maximum Flight Level Wind	
H	942 MB	Minimum Sea Level Pressure computed from Dropsonde or Extrapolated from flight level. <u>If</u> extrapolated, clarify in remarks.	
I	10 CI 3060 M	Maximum Flight Level Temp / Pressure Altitude <u>Outside</u> Eye	
J	22 CI 3044 M	Maximum Flight Level Temp / Pressure Altitude <u>Inside</u> Eye	
K	6 CI NA C	Dewpoint Temp / Sea Surface Temp <u>Inside</u> Eye	
L	CLOSED	Eye Character (Closed wall, poorly defined, open SW, etc.)	
M	108	Eye Shape / Orientation / Diameter Code eye shape as: C – circular; CO – concentric; E – elliptical. Transmit orientation of the major axis in tens of degrees from 01 to 18, i.e., 01 => 010 to 190; 17 => 170 to 350. Transmit diameter in nautical miles. <u>Examples:</u> C8 = Circular eye 8 nm in diameter; E07/15/5 = Elliptical eye oriented 070 to 250, length of major axis is 15 nm, length of minor axis is 5 nm; CO18-30 = Concentric eye walls with diameter of inner eye 18 nm and diameter of outer eye 30 nm.	
N	12345 17	Fix Determined By / Fix Level Fix determined by: 1 – Penetration; 2 – Radar; 3 – Wind; 4 – Pressure; 5 – Temperature. <u>Fix Level</u> (Indicate surface center if visible; indicate both surface and flight level centers ONLY when same): 0 – Surface; 1 – 1500 ft; 9 – 925 mb; 8 – 850 mb; 7 – 700 mb; 5 – 500 mb; 4 – 400 mb; 3 – 300 mb; 2 – 200 mb; NA – Other	
O	1 2 NM	Navigation Fix Accuracy / Meteorological Accuracy	
P	REMARKS: MAX FL WIND 162 KT NW QUAD 1111 Z MAX SURF SFC WIND 140 KTS SE QUAD 11052 LRG ALL QUADS STADIUM EFFECT EYE SURF SFC WINDS 14 m/s AT 6 METERS		

Instructions: Items A thru G (and H when extrapolated) are transmitted from the aircraft immediately following the fix. The remainder of the message is transmitted as soon as available for scheduled fixes and at the Flight Director's discretion for unscheduled fixes.

3 SEP 07

DATE 07	SCHEDULED RX TIME 12Z	AIRCRAFT NUMBER N43RF	FLIGHT DIRECTOR FLAHERTY
WX MISSION IDENTIFIER NOAA3 1106A FELIX			OB NUMBER
VORTEX DATA MESSAGE			
A	03 / 1109 Z	DATE and TIME of FIX	
B	19 DEG 09 MIN N S	LATITUDE of FIX	
	76 DEG 40 MIN W E	LONGITUDE of FIX	
C	700 MB 2582 M	MINIMUM HEIGHT of STANDARD LEVEL	
D	140 KT	ESTIMATE of MAXIMUM SURFACE WIND OBSERVED	
E	120 DEG 5 NM	BEARING and RANGE FROM CENTER of MAXIMUM SURFACE WIND	
F	190 DEG 130 KT	MAXIMUM FLIGHT LEVEL WIND NEAR CENTER	
G	120 DEG 5 NM	BEARING and RANGE FROM CENTER OF MAXIMUM FLIGHT LEVEL WIND	
H	938 MB	MINIMUM SEA LEVEL PRESSURE COMPUTED FROM DROPSONDE OR EXTRAPOLATED FROM FLIGHT LEVEL. IF EXTRAPOLATED, CLARIFY IN REMARKS.	
I	120 C / 3023 M 3082	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE	
J	25 C / 3023 M	MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE INSIDE EYE	
K	12 C / NA C	DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE	
L	closed	EYE CHARACTER: Closed wall, poorly defined, open SW, etc.	
M	C08	EYE SHAPE/ORIENTATION/DIAMETER: Code eye shape as: C - Circular; CO - Concentric; E - Elliptical. Transmit orientation of the major axis in tens of degrees, i.e., 01-010 to 190; 17-170 to 350. Transmit diameter in nautical miles. Examples: C8= Circular eye 8 miles in diameter; E09/15/5=Elliptical eye, major axis 090-270, length of major axis 15 NM, length of minor axis 5 NM. CO8-14=Concentric eye, diameter inner eye 8 NM, outer eye 14 NM.	
N	12345/2	FIX DETERMINED BY / FIX LEVEL. FIX DETERMINED BY: 1-Penetration; 2-Radar; 3-Wind; 4-Pressure; 5-Temperature. FIX LEVEL (Indicate surface center if visible; indicate both surface and flight level centers ONLY when same): 0-Surface; 1-1500 ft; 9-925mb; 8-850mb; 7-700mb; 5-500mb; 4-400mb; 3-300mb; 2-200mb; NA-Other	
O	1 / 2 NM	NAVIGATION FIX ACCURACY / METEOROLOGICAL ACCURACY	
P	REMARKS 167 ft MAX FL WIND 130 KT SE QUAD 1105 Z MAX SFC WIND 140 KT SE QUAD 1105 Z STADIUM EFFECT		

INSTRUCTIONS: Items A thru G (and H when extrapolated) are transmitted from the aircraft immediately following the fix. The remainder of the message is transmitted as soon as available for scheduled fixes and at the Flight Director's discretion for unscheduled (intermediate) fixes.

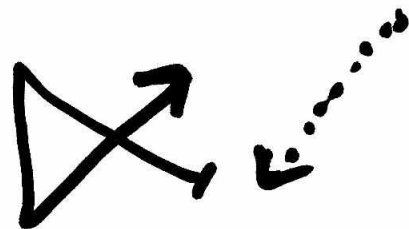
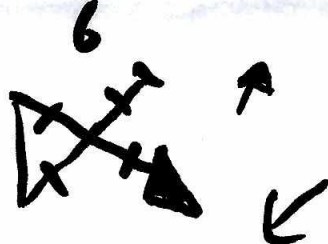


π

π

HOG
PICK

937 mb
10,000 Ft



EYEWALL AS
CENTER DROPS

NOAA3 1106A FELIX

TEAL 71

941.9
942

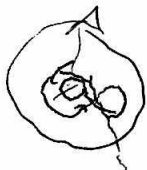
PASS 2
MAX IN 1227 112 KTS
OUT 1229 150 KTS
MAX FL WINDS

162 KTS

11 10Z

~~STAFF~~
~~1100~~

STAFF
W 1227 108 & B
AT 140 KTS 1229



Sonde sfc wnd 14 m/s at 6m

