

3115

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

Flt ID: 070903 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

Recco Times

0912 took down the processing SPMR wind calculations for troubleshooting

1130 J/W ON

TDI WOP 1446 z - 150830

Fix # Fix Time

1709 938 mb

1227 942 mb

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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 CAOAE LAT/LON @ 1038 14 04 76 35**

SPIKE IN
DMA
085237 - 085243
+ 113508 - 113512
115103 - 115106

2498710046
1059-1247

MAN SUB TOM 2
093313 - 093326
MANUP ul.28

NO 159
INPUT

~~THE SPIKES~~
~~110811 ?~~
~~113504 72~~
~~114050 71~~
~~115100 ?~~
~~115312 71~~

PSF

PQFI

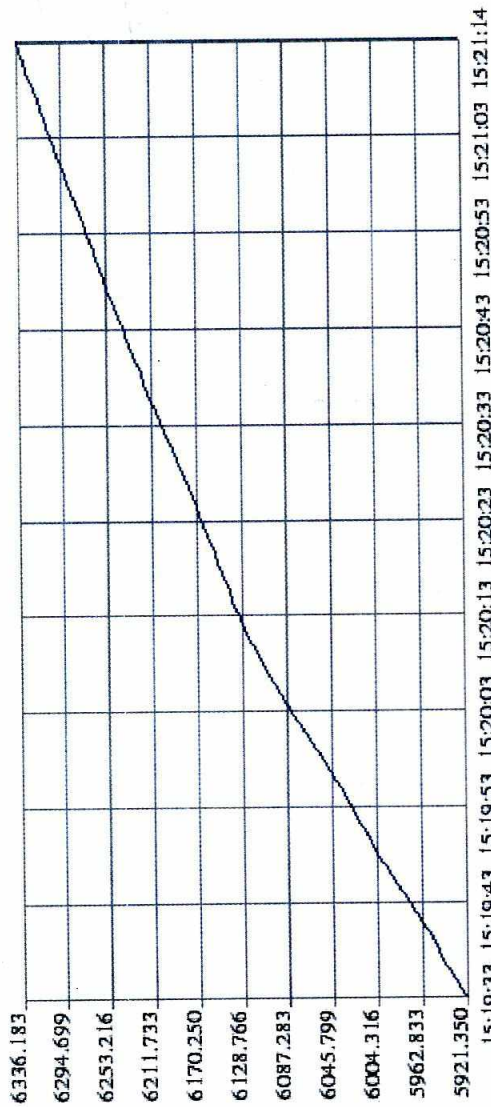
INE/ACC 2

TI 12

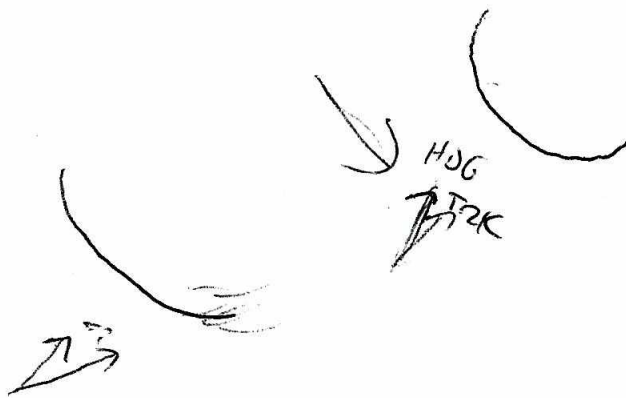
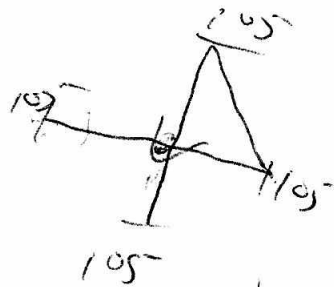
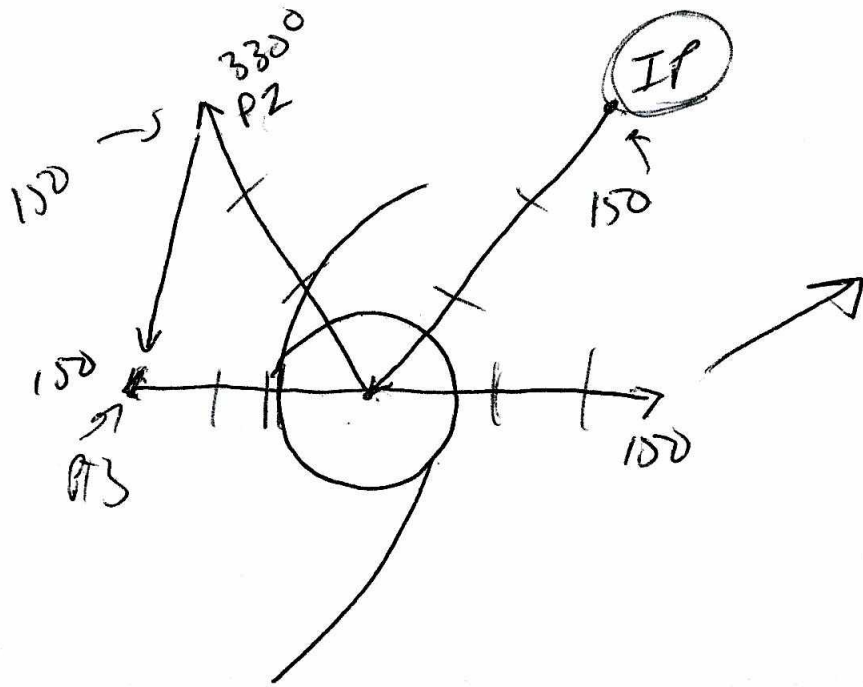
TOM 2 X

RA 159

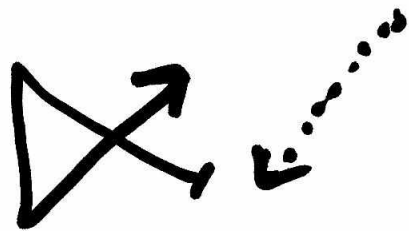
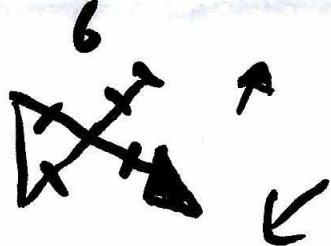
altash: File = 070905I_R.nc From: 15:19:33 To: 15:21:14
Title: Project = , Flight #, Date = 09/05/2007 UTC, Time = 14:30:11-18:48:10



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



937 mb
10,000 Ft



EYEWALL AS
CENTER DROPS

NOAA3 1106A FELIX

TEAL 71

skull
w 1227 108 & B
at 140 KTS 1229

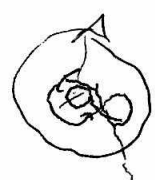
941.9
942

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

162 KTS
11 102

~~SEMP~~
~~140~~

Sonde sfc wnd 14. m/s at 6m





10,000 ft
0337

CEMEX DUES
ELEMENT 2

11000 FÉLIX

15 JET

VORTEX DATA MESSAGE

Date 355107	Scheduled Fix Time N/A	Aircraft Number N43	Flight Director FLAHERTY
Mission Identifier: NOAA3 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	700 MB 2615 M	Minimum Height of Standard Level	
D	911105 KT	Estimate of Maximum Surface Wind Observed (visually)	
E	196 DEG 03 NM	Bearing and Range From Center of Maximum Surface Wind	
F	288 DEG 112 KT	Maximum Flight Level Wind Near Center	
G	196 DEG 3 NM	Bearing and Range From Center of Maximum Flight Level Wind	
H	942 MB	Minimum Sea Level Pressure computed from Dropsonde or Extrapolated from flight level. If extrapolated, clarify in remarks.	
I	10 CI 3060 M	Maximum Flight Level Temp / Pressure Altitude Outside Eye	
J	22 CI 3044 M	Maximum Flight Level Temp / Pressure Altitude Inside Eye	
K	6 CI NA C	Dewpoint Temp / Sea Surface Temp Inside Eye	
L	CLOSED	Eye Character (Closed wall, poorly defined, open SW, etc.)	
M	LO8	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. Examples: 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. Fix Level (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 **1105Z**
~~LTG 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						OB NUMBER	
NOAA3 1106A FCIX							
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	900 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	1281 C / 3023 M (3083)	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	EWB 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 130 130 KT SE QUAD 1105 Z						
	MAX SFC WIND 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.

