

FLT ID: 20130914I1 From: KMCF To: KMCF
 FLT #: Blk In: 0203 z Lnd Time: 0153z
 ETD: 1800 z Blk Out: 1735 z T/O Time: 1744z
 ETE: Total Blk: 8.5 Total Flt: 8.2
 Sponsoring Org: HRD/EMC Program: PRX Purpose: TDR/RI AURINGRID

AOC Flight Crew

Aircraft Commander: NELSON SSA: NAEHER
 Co-Pilot: SWEENEY PRICE AVAPS: NEWNAM
 Navigator: SIEGEL Scientists: (HRD) Eric UHLHORN
 Flight Eng: DARBY Scientists: (HRD) Tom VUKICEVIC
 Flt Director: HENNING FLAHERTY Scientists: (FSU) Heather HOLBACH
 SEB: PEEK, PAUL Scientists: ~~(NESDIS) JEROME JEROME~~
 Crew Chief: Visitors: 1 (NESDIS) Paul CHANG (UMASS) Joe SAPP

Pressure	A/C - Takeoff PS2 1012.8	Wx Station - Takeoff 1658z 29.94 (ST 1013)	29.94 A/C Land 1013.8	Wx Station - Land 0058z - 29.96 (ST 1015)
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AS REQUIRED BY ORM	YES / NO	REMARKS
VOLCANIC ASH		
SCIENCE MISSION WITHIN BOUNDARY LAYER		
LACK OF PRECIPITATION		
RELATIVE HUMIDITY AT OR ABOVE 80%		
LARGE AIR-SEA TEMPERATURE GRADIENT		
HIGH SURFACE WINDS		
LONG FETCH AND/OR DURATION OF SFC WIND		
SEA SALT ACCRETION FORECAST		
SEA SALT ACCRETION OBSERVED		

Dropsondes 17 Good: 17 Bad: 0 Sent: 17
 AXBT 10 Good: 10 Bad: 0 Sent: 10

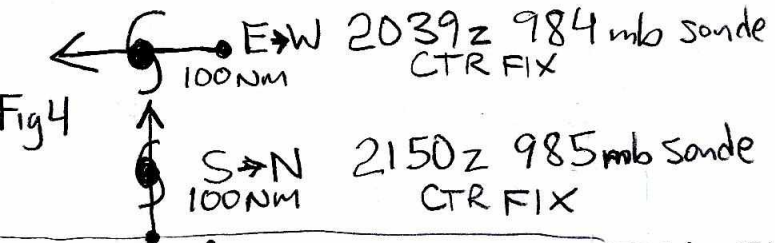
Remarks (Storm VDM Identifier, Mission ID, Fix Times) Fix # VDM Ob Num Fix Time / SLP

Storm Number Identifier (VDM): AL102013
 (ie: AL072012)

TCPOD/WSPOD Mission ID: NOAA3 0910A INGRID
 (ie: NOAA2 2418A SANDY)

Remarks:
 NO GAPS
 320/g
 5 PENNIES
 See back for Penny summary
 01
 78
 75
 00z 21.4 94.4
 Pattern 2106 92 37
 Eye 2106 94 24
 1. 2039z 984mb
 2. 2150z 985mb
 3. 2234z
 4. 2250z
 5. 2304z

20130914I1
5 Penetrations



WRAP module

NE 75 NM 2234 MXW 73 kts FL 75 kts SFMR 2237z CPA to CTR 983 EXTRAP 28 kts FL

NE 35 NM 2250 MXW 65 kts FL 78 kts SFMR 2254z CTR FIX 982 mb EXTRAP 2 kts FL

NE 35 NM 2307 MXW 73 kts FL 78 kts SFMR 2313z CPA to CTR 983 mb EXTRAP 4 kts FL

2220

Cherry

223422 36.3 / 44.3
 224954 42.2 / 45.3

2320



N43RF ERROR SUMMARY HURRICANE INGRID KMCF - KMCF



Flight ID: 20130914I1

Sensor or system	Number or Name
INE (for wind derivation)	INE1
Accelerometer	AccZfilterI-GPS.1
Temperature Probe	TTM.1
Dew Point Probe	TDM.2 (Edgetech)
Altitude (for vertical wind)	AltGPS.3 (NOVATEL)
Static Pressure	PSM.2
Dynamic Pressure	PQM.2
Project Directory	/acdata/2013/MET/20130914I1

Notes:

There were no data gaps.

Dewpoint sensor #1 (TDM.1Buck) and #2 (TDM.2 Edgetech) both performed very well in the storm environment. Late in the flight (near the return to Tampa) TDM.1 ran away (too warm) so TDM.2 was selected for post processing. There were a few brief intervals of supersaturation with dew point exceeding ambient temp (resulting in RH between 100% and a max of 119.6%). The TDL (TDM.3) dewpoint sensor was erratic and generally unusable.

Total temperature sensor #2 (TTM.2) was noisy and displayed an oscillation on the order of approx 0.6 deg C when compared to TTM.1 therefore TTM.1 was selected for post-flight processing.

All other instruments worked optimally during the flight.

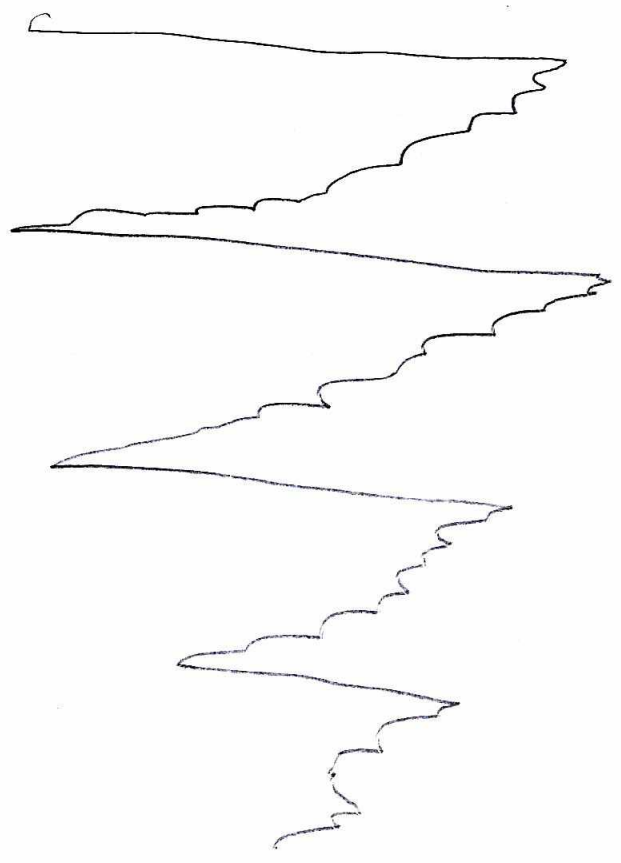
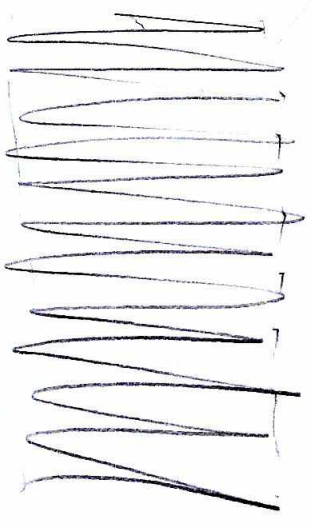
Novatel (AltGPS.3) altimeter output was selected for post-flight processing.

	Takeoff (1744Z)	Landing (0153Z)
Aircraft Static Pressure	1012.8 mb	1013.8 mb
Corrected Tower Pressure	1013.2 mb	1015.0 mb

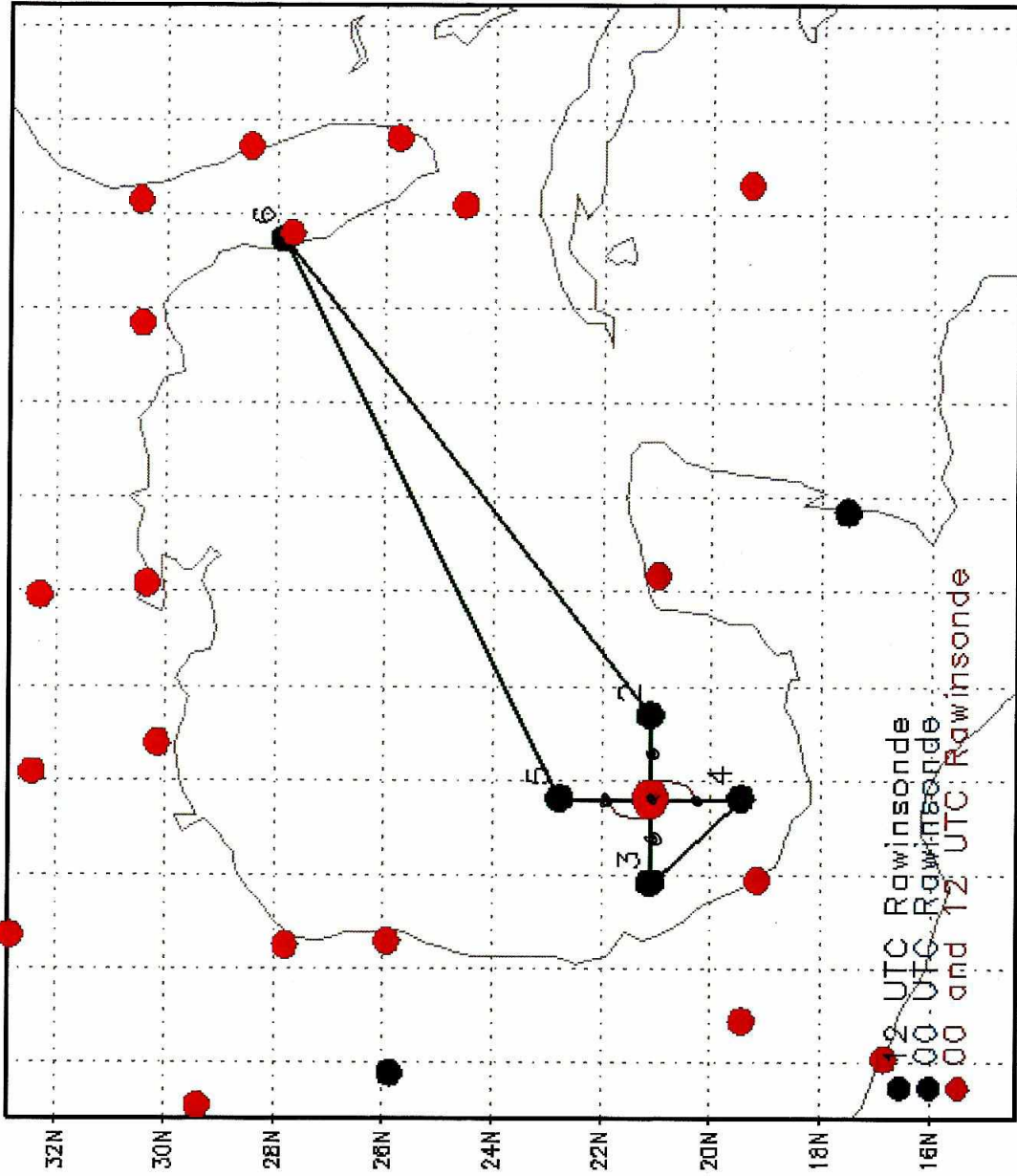
17 dropsondes and 10 AXBT deployed. All were good and transmitted.

Flight Director: Richard Henning (813) 828-3310 ext. 3086

106 m ~ 305
 200 m ~ 455
 400 m ~ 605
 860 m ~ 905
 ~ 200 m 455
 160 m 305



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GRADS: COLA/IGES

2013-09-14-11:30

985 15 6 45

28.7

21 20
94 32

BT1 ✓

291 21 20
28.7 50 96 10
28.7

99 50
94 32

19 26
94 36
20 14 41 08

