

U.S. Dep't. of Commerce / OMAO / NOAA / Aircraft Operations Center

FLT ID: 20130915I1 From: KMCF To: KCRP  
 FLT #: Blk In: 0303 z Lnd Time: 0257z  
 ETD: 1800z Blk Out: 1750 z T/O Time: 1802z  
 ETE: 8+00 Total Blk: 9.2 Total Flt: 8.9  
 Sponsoring Org: HRD/EMC Program: PRX Purpose: TDR/WIND SHEAR/IWRAP

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 Tomi VUKICEVIC  
 Flt Director: HENNING PARRISH Scientists: NESDIS Zorana JELENAK  
 SEB: PEEK, PAUL, Scientists: NESDIS Paul CHANG  
 Crew Chief: KREGALKA Visitors: 1 UMASS Joe SAPP

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	PS2 1016.2	1758z - 30.01 PS2 1016.2	PS2 1010.5	<del>1010.5</del> 29.92 (STA 1012.1)

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		

DATA GAP  
 22:30-24:24  
 22:30-24:24  
 22:30-24:24

Dropsondes	26	Good: 25	Bad: 1	Sent:
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):  
 (ie: AL072012)

TCPOD/WSPOD Mission ID: NOAA 1310A INGRID  
 (ie: NOAA2 2418A SANDY)

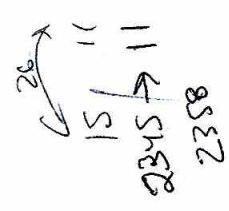
Remarks: t/o SLP 1016.5 290/5 22.8 96.6  
 psurf 1016.8 22.7 95.8 ← old  
 new posit 21z 22 42N 96 18W IP 22 48 95 15  
 00z 22 54N 96 36W  
 SO WEST.  
 WEST 22 42 9730  
 SO 2134 9637

0044  
 OB#30

SEE BACK FOR PENNY SUMMARY

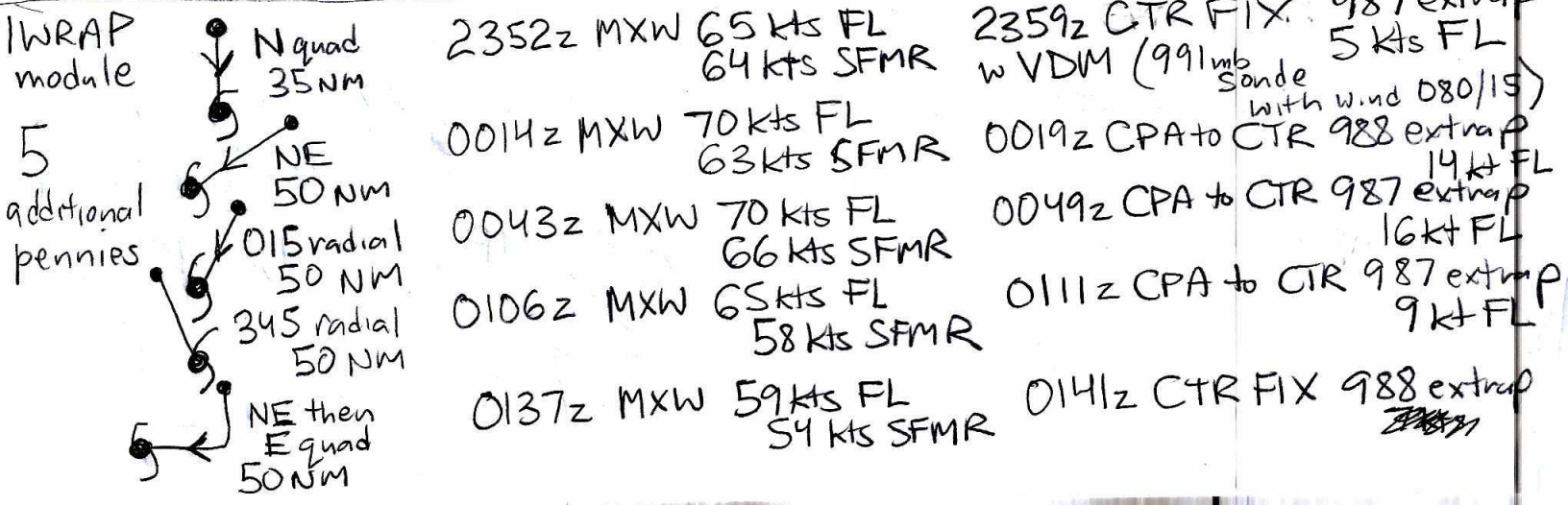
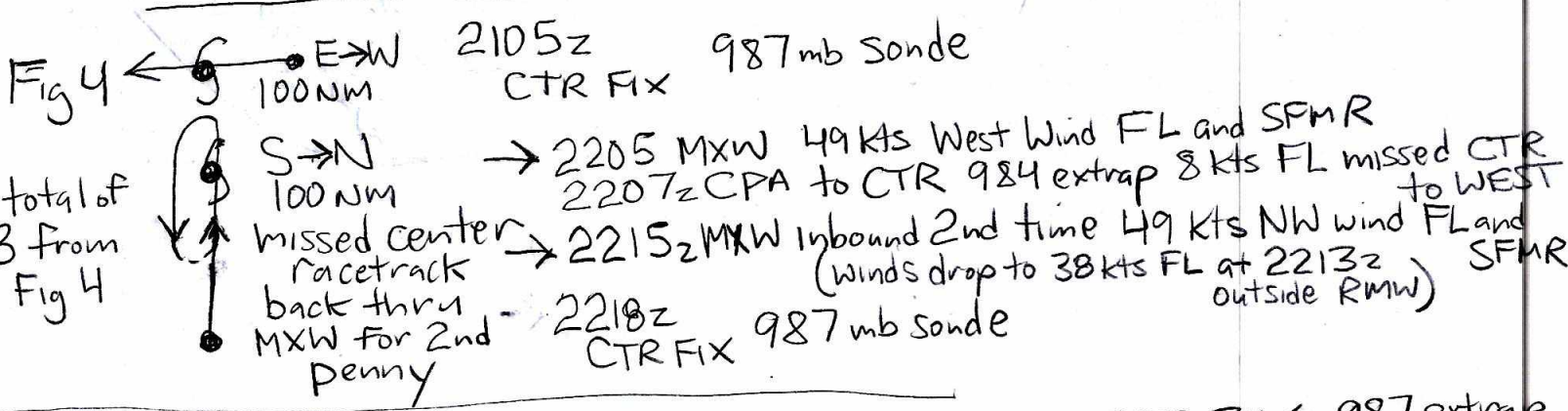
(STA 1012.1)  
 43A.  
 KCRP

2352  
0003  
29.3/31.0/2345  
28.3/34.0  
27.7/38.8  
0155  
Shoo



23:54z  
INR 030  
INR 015  
INR 350  
INR 360

20130915I1  
8 Penetrations





# N43RF ERROR SUMMARY HURRICANE INGRID KMCF - KCRP



**Flight ID: 20130915I1**

Sensor or system	Number or Name
INE (for wind derivation)	INE1
Accelerometer	AccZfilterI-GPS.1
Temperature Probe	TTM.1
Dew Point Probe	TDM.2X (Edgetech)
Altitude (for vertical wind)	AltGPS.3 (NOVATEL)
Static Pressure	PSM.2
Dynamic Pressure	PQM.2
Constants File	n43_xml
Project Directory	/acdata/2013/MET/20130915I1

**Notes:**

There was a one second data gap in the NOVATEL GPS altitude data at 22:34:24z during the outbound leg through the north quadrant of the storm after the 2<sup>nd</sup> center fix.

Dewpoint sensor #2 (TDM.2 Edgetech) performed very well for the majority of the time in the storm environment and was selected for post processing. TDM.1 (the Buck) was adequate but noisier. Prior to reaching the IP, during the descent from cruise altitude down to 8000 feet, both dew pointers ran away (too warm beginning at 20:42:49z). TDM.2 recovered normal function at 20:51:42z (level at 8K just prior to the IP). Statistical means were used to patch TDM.2 during this interval. The TDL (TDM.3) dewpoint sensor was erratic and generally unusable.

Total temperature sensor #2 (TTM.2) was noisy and displayed an oscillation of as much as 1.5 deg C when compared to TTM.1 therefore TTM.1 was selected for post-flight processing.

All other instruments worked optimally during the flight.

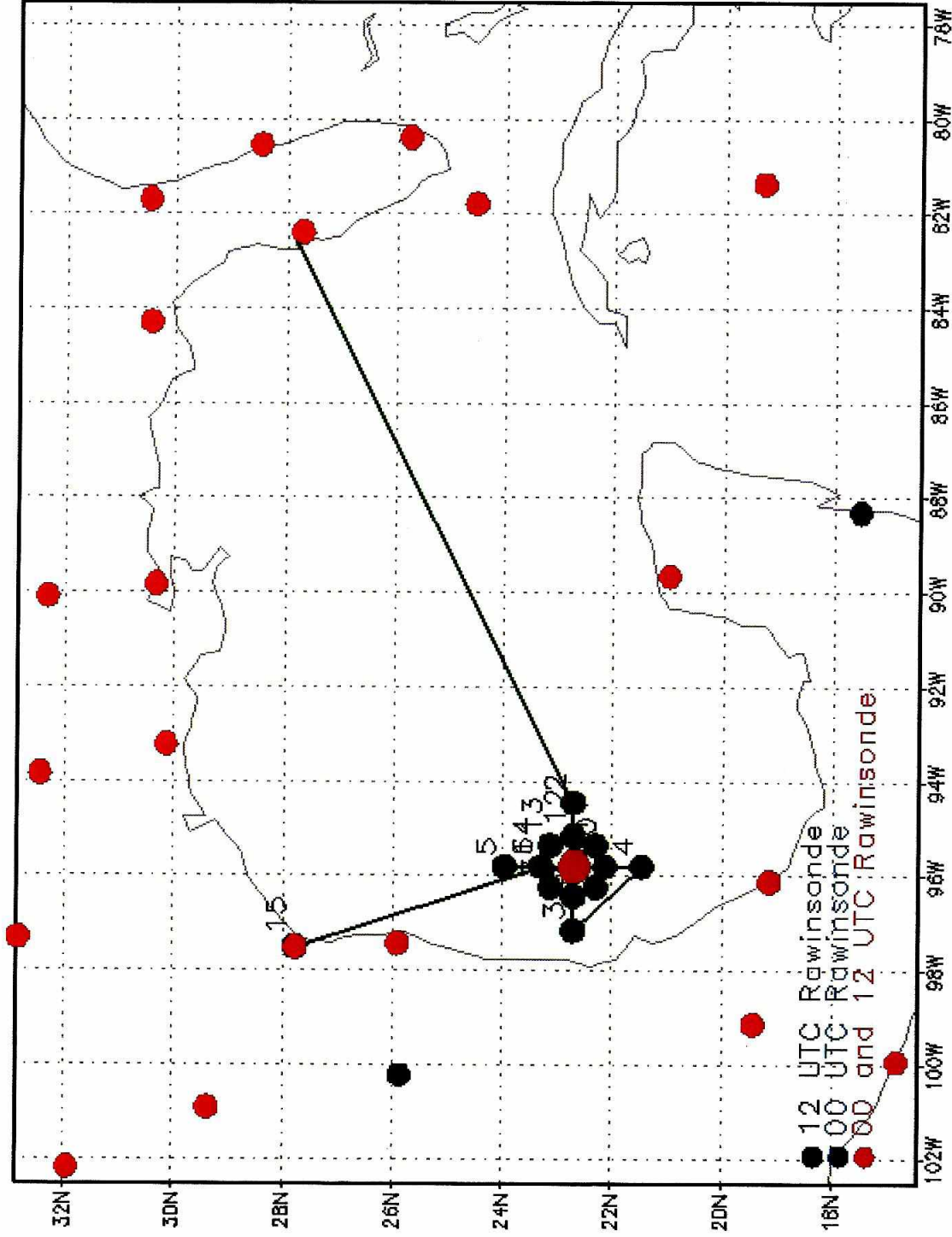
Novatel (AltGPS.3) altimeter output was selected for post-flight processing.

	<b>Takeoff (1802Z)</b>	<b>Landing (0257Z)</b>
Aircraft Static Pressure	1016.2 mb	1010.5 mb
Corrected Tower Pressure	1016.2 mb	1012.1 mb

26 dropsondes and 10 AXBT deployed. All expendables except one sonde were good and transmitted. The endpoint drop at 2250z was a fast fall but the backup at 2252z was good.

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



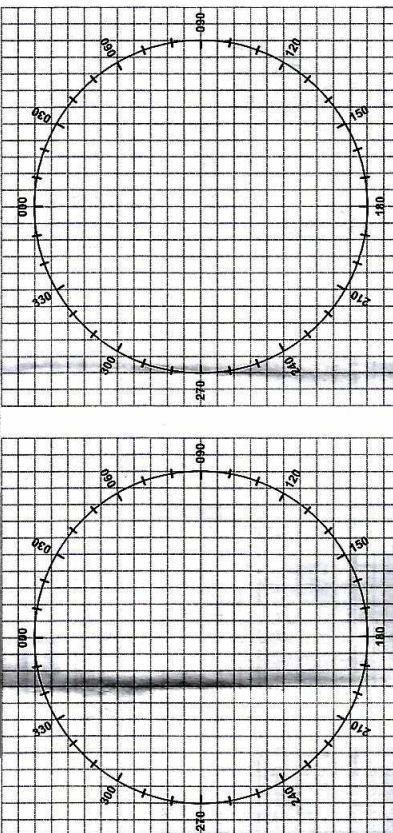


GRADS: C0LA/IGES

2013-09-14-20:24

CLEARANCES		
FREQ	ALT	HDG
135.5	212K	OTHER
132.35	216K	
135.77	21200	IRPNV cst
128.2	IRPNV	SO 3555
123.75	OTPO	
126.6	MX CTR	IP
		360 960 922Z
		17 people Signature
		130.875 FBO

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.  
 UHFVOICE VHFVOICE MFVOICE HF/CW MF/CW  
 243.0 121.5 2182 KHZ 8364 KHZ 500 KHZ  
 MAYDAY, MAYDAY, MAYDAY  
 THIS IS NOAA 43, NOAA 43, NOAA 43  
 - POSITION \_\_\_\_\_ N/S \_\_\_\_\_ E/W AT \_\_\_\_\_ Z  
 - HEADING \_\_\_\_\_ TRUE/MAG  
 - AT \_\_\_\_\_ KTS TRUE/INDICATED  
 - FLIGHT LEVEL OR ALTITUDE \_\_\_\_\_  
 - WE ARE A P-3 AIRCRAFT WITH \_\_\_\_\_ SOULS ON BOARD  
 - NATURE OF EMERGENCY \_\_\_\_\_  
 - ASSISTANCE DESIRED \_\_\_\_\_  
 - PILOT INTENTIONS \_\_\_\_\_  
 - WE HAVE \_\_\_\_\_ ENDURANCE REMAINING

TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION	K ERR	VAR +E=>	TH	DR +R=>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
1744	START																			
1749	TAXI																			
1802	T/O																			
1809	x✓	N 27 49.4 W 82 15.1	27 49.4 82 15.0	0 +1.1	27 49.5 82 14.8	-1 +3.3	5W	216	2R	218	247	088	10	720	243					100/14
1900	△	26 06.3 95 56.0	26 04.9 85 57.5	+1.4 -1.5	26 05.2 85 58.5	+1.1 -3.5	3W	216	0	216	308	030	8	FL200	299					
2000	△	25 23.4 90 34.3	23 22.0 90 35.7	+1.4 -1.4	23 22.7 90 37.8	+1.7 -3.5	1E	244	1L	243	309	056	18	FL200	292					
2100	△	22 45.8 95 38.4	22 42.9 95 38.7	+2.9 -0.3	22 43.6 95 38.7	+2.7 -1.3	3E	254	10R	264	247	159	39	080	244					
2200	△	22 13.3 95 58.7	22 07.3 96 00.3	+6.0 -1.6	22 09.4 95 59.8	+3.9 -1.1	4E	355	6R	001	247	264	31	080	244					
2300	△	23 25.6 96 02.2	23 17.4 96 04.3	+8.2 -2.1	23 22.9 96 08.2	+2.9 -6.1	4E	170	8R	178	232	099	40	080	242					
0000	△	23 03.5 96 01.0	23 00.9 96 01.7	+2.6 -0.7	23 03.1 95 57.7	+1.6 +3.3	4E	049	17L	032	250	143	60	080	235					
0100	△	23 41.9 96 19.4	23 34.9 96 21.3	+7.0 -1.9	23 34.9 96 14.4	+7.0 +5.0	4E	157	9R	166	226	090	40	080	246					
0200	△	24 11.5 96 40.7	24 02.0 96 44.7	+9.5 -4.0	24 05.3 96 42.0	+6.2 -1.3	4E	355	10L	345	247	090	40	080	238					
0257	LAND	KCRP																		
0303	Block																			

MIA  
 HOU  
 MELINA  
 MURICA  
 MX CTR

