

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

FLT ID: 20131003H1	From: KMCF	To: KMCF
FLT #:	Blk In: 0153 z	Lnd Time: 0145 z
ETD: 1800 z	Blk Out: 1754 z	T/O Time: 1805 z
ETE: 8+00	Total Blk: 8.0	Total Flt: 7.7
Sponsoring Org: NHC	Program: PRX	Purpose: TDR KAREN

AOC Flight Crew

Aircraft Commander: NELSON	SSA: BOSKO
Co-Pilot: SWEENEY, KERNS	AVAPS: ROLES, I
Navigator: SIEGEL, I	Scientists: (HRD) Rob Rogers
Flight Eng: KLIPPEL, (OBS) LaLONDE	Scientists (HRD) Kathryn Sellwood
Flt Director: HENNING, DAMIANO	Scientists OBS Tanner SIMS
SEB: T LYNCH, C LYNCH	Scientists: OBS Bryanna HERRING G
Crew Chief:	Visitors: 1 FSU Andy Hazelton

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure		30.04		0058 30.02 later 30.04

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	20	Good: 20	Bad:	Sent: 20
AXBT	9	Good: 7	Bad: 2	Sent: 7

Remarks (Storm VDM Identifier, Mission ID, Fix Times)	Fix #	VDM Ob Num	Fix Time / SLP
Storm Number Identifier (VDM): AL122013 (ie: AL072012)			
TCPOD/WSPOD Mission ID: NOAA2 0412A KAREN (ie: NOAA2 2418A SANDY)			

Remarks:

My

pcab t/o 1017.0 30.06  
door opens

pcab land 1016.6 1758z 30.04



# N42RF ERROR SUMMARY TS KAREN MISSION #1



**Flight ID: 20131003H1**

<u>Sensor or system</u>	<u>Number or Name</u>
INE (for wind derivation)	INE1
Accelerometer	AccZfilterI-GPS.1
Temperature Probe	TTM.1
Dew Point Probe	TDM.1X
Static Pressure	PSM.2
Dynamic Pressure	PQM.2
Vert. Wind	ALTGPS.3 (NOVATEL)
Project Directory	/acdata/2013/MET/20131003H1

Notes:

There were no data gaps.

During the time periods 194704Z – 213813Z and 223545Z – 002552Z, the measured Buck (TDM.1) dewpoint temperature displayed erroneous values that were removed and replaced with TDM.2 (EdgeTech) output by direct substitution.

TDM.1 = TDM.2

Also during the time frame 013400Z - 014200Z the measured Buck (TDM.1) dewpoint temperature displayed erroneous values that were manually removed and replaced with TDM.2 (EdgeTEch) dewpoint values using statistical techniques with a patch value of 0.20.

During the flight there were instances where dewpoint temperature values exceeded derived ambient temperature values resulting in humidity values above 100%. These situations occurred during precipitation events.

All other instrumentation worked optimally.

**SPECIAL NOTE!!!** The variable names DPJ\_GSZ, DPJ\_ASZ and DPJ\_WSZ in the netCDF file represent vertical ground speeds, vertical air speeds and vertical wind speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

Dropsondes deployed: 20; 20 good; 20 Tempdrop messages sent  
 AXBTs deployed: 9; 7 good; 7 WMO messages sent

**Takeoff(1805Z)    Landing(0145Z)**

Aircraft Static Pressure            1018.0mb            1016.7mb

Corrected Tower Pressure            1017.0mb            1016.8mb

Flight Director:    A. Barry Damiano    (813) 828-3310 ext. 3073  
                          Richard Henning        (813) 828-3310 ext. 3086

20131003HI TS KAREN

1805 T10

0145 land

540

T10  
KMCF

30.05  
1017.01

PSM.1 1014.18  $\frac{1}{2}$

PSM.2 1018.04

Alt ref = 6PS.3

CND

KMCF

30.08  
1016.79

LINE 1

PSM.1 1014.94

PSM.2 1016.68

TDM.1 *fixer*

1947<sup>00</sup> - 2139<sup>00</sup>

TDM.2

194704 - 213813

2235<sup>00</sup> - 0025<sup>00</sup>

sub

223545 - 242552

0134 - 0142 use TDM.2

manual  
plot diff

Plot = 20

Sonde  
~~+++~~  
+++  
+++  
~~+++~~

BT  
+++  
~~+++~~  
+++

20 ~~st~~

14  
35  

---

79







