

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

FLT ID: 20140527N1	From: KMCF	To: KMCF
FLT #:	Blk In: 2205 Z	Lnd Time: 2144 Z
ETD: <del>2000</del> 2000 Z	Blk Out: 1949 Z	T/O Time: 2001 Z
ETE:	Total Blk: 2:16 (2.3)	Total Flt: 1:43 (1.7)
Sponsoring Org: AOC	Program: HURRICANE	Purpose: CHECKOUT FLT FOR NOAA49

## AOC Flight Crew

Aircraft Commander: HAGAN	SSA: DEFEO
Co-Pilot: <del>TWINING</del> MacINTYRE	AVAPS: MASCARO 1
Navigator: 1	Scientists:
Flight Eng: 1	Scientists
Flt Director: DAMIAND, HEFFERAN	Scientists
SEB: GOLDSTEIN 1	Scientists:

Crew Chief: Visitors: PSM 1, 2	101700Z	1	1
A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure 1016.03	30.07	1016.0	30.015 R
AS REQUIRED BY ORM	YES / NO	REMARKS	
VOLCANIC ASH		✓	1016.73
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	2	Good: 2	Bad:	Sent: 2
AXBT		Good:	Bad:	Sent:

List other data sources in Remarks section

Remarks (Storm VDM Identifier, Mission ID, Fix Times)	Fix #	Ob Num	Fix Time / SLP
Storm Number Identifier (VDM): (ie: AL072012)			

TCPOD/WSPOD Mission ID: WXWXA TRAIN49 (ie: NOAA2 2418A SANDY)	VDM
	Fix #
	Ob Num
	Fix Time / SLP

Remarks: Buoy 42003 26°03' 85°37'	32	30.06 KMCF
	22	
Vaish 1017.7 26.044 85.612		T/o scb
were in NO FD logger		1018.6
1924Z		
were in a lightning field for just over a hour on the ramp.		
ERROR 113 occurred at VDP read in FD laptop		



## N49RF ERROR SUMMARY CHECKOUT FLIGHT



**Flight ID: 20140527N1**

Sensor or system	Number or Name
INE (for wind derivation)	INE1
Accelerometer	ACCZI.1
Temperature Probe	TTM.4
Dew Point Probe	TDM.2 (EdgeTech)
Altitude (for vertical wind)	GPS.3 (Novatel)
Static Pressure	PSM.2
Dynamic Pressure	PQM.2
Attack Angle	AA.2
Slip Angle	SA.2
Project Directory	/acdata/2014/MET/20140527N1

Notes:

There were no data gaps.

There was no FD logger output and no serial data output.

It was noted that for the AltRa.1.c output there were data dropouts at approximately every 90 seconds. This was a very consistent pattern throughout the flight.

All sensors worked optimally. The difference between PSM.1 and PSM.2 was about 3.5 mb when in the past the difference was about 2 mb.

Two (2) dropsondes were deployed over buoy 42003; both were good; 2 tempdrop messages were transmitted and received at NCEP.

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

Takeoff (2001Z)	Landing (2144Z)
-----------------	-----------------

Aircraft Static Pressure	1016.3mb	1016.0mb
--------------------------	----------	----------

Corrected Tower Pressure	1017.4mb	1016.7mb
--------------------------	----------	----------

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

2014 05 27 N1

GPS.1 worse than  
GPS.2 / GPS.3 (Novatel)  
203727 max RAIC  
203452  
203623  
203752

T/D	KMCF	1017.41	Vairu	1017.7
PSM.1		1014.45		19242
		<del>1013.77</del>		
		1016.30	↓	
PSM.2		<del>1015.77</del>	1016.90	

LND KMCF 1016.73

PSM.1 1014.18

1935 - 2150

93

⑧

PSM.2 1016.04

alt

AN2

SA2

alt ok at alt

TDM.2 177.4

at alt PSM.2 ~~more~~ more variation in roll  $\Rightarrow$  10°

than PSM.1

3-4 change  
mb

some splash

26.027 drop 1  
85.555

T3 still oscillating but at a low freq  
5 done response

26.033 drop 2  
85.547

TDM.1 too warm & above TA. at alt

3.5°

N49RFAOC GPS Dropwindsonde Log

Flight ID: 20140527W1 Flight Director:

Page 1 of 1

Mission IDW XWKA Storm TORNADO