

## 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: 2016 (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>MacINTYRE</del> MacINTYRE	AVAPS: MASCARO 1
Navigator: 1	Scientists:
Flight Eng: 1	Scientists:
Flt Director: DAMIANI HEFFERAN	Scientists:
SEB: GOLDSTEIN 1	Scientists:

Crew Chief:	Visitors: PSA, 2	1	1
	A/C - Takeoff	Wx Station - Takeoff	A/C - Land
Pressure	1016.03	30.07	1016.0
			30.05 B

AS REQUIRED BY ORM	YES / NO	REMARKS
VOLCANIC ASH	<input checked="" type="checkbox"/>	1016.73
SCIENCE MISSION WITHIN BOUNDARY LAYER	<input checked="" type="checkbox"/>	
LACK OF PRECIPITATION	<input checked="" type="checkbox"/>	
RELATIVE HUMIDITY AT OR ABOVE 80%	<input checked="" type="checkbox"/>	
LARGE AIR-SEA TEMPERATURE GRADIENT	<input checked="" type="checkbox"/>	
HIGH SURFACE WINDS	<input checked="" type="checkbox"/>	
LONG FETCH AND/OR DURATION OF SFC WIND	<input checked="" type="checkbox"/>	
SEA SALT ACCRETION FORECAST	<input checked="" type="checkbox"/>	
SEA SALT ACCRETION OBSERVED	<input checked="" type="checkbox"/>	

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 #	VDM Ob Num	Fix Time / SLP
Storm Number Identifier (VDM): (ie: AL072012)			
TCPOD/WSPOD Mission ID: WXWXA TRAIN49 (ie: NOAA2 2418A SANDY)			

Remarks:	Buoy 42003 2603' 85°37'	32	30.06 KMCF
	26.044 85.612	22	T/O SLP
			1018.6
Varish 1017.7	were in	NO FD logger	
1924Z	was a lightning held for just over a hour on the		
ERROR 113 occurred at UDP Read in FD laptop			ramps.



## 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.

	<b>Takeoff (2001Z)</b>	<b>Landing (2144Z)</b>
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 0527N1

GPS. 1 worse than  
GPS. 2 / GPS. 3 (Novatel)

T/O KMCF 1017.41

Vaisala 1017.7

PSM.1 ~~1014.45~~

1924Z

1016.30

↓

PSM.2 ~~1015.77~~

1016.90

203727 NAW RAIC

203452

203623

203752

LND

KMCF

1016.73

1955-2150

PSM.1 1014.18 ~~18.73~~

93

⊙

PSM.2 1016.04

at

AN2

SA2

JUST OK at alt

TDM.2 177.4

at alt PSM.2 shows more variance in roll > 10°

than PSM.1

.3-.4 change  
mb

T3 still oscillating but at a lower freq  
Sdove response

TDM.1 too warm & above TA. at alt

Sonde splash  
3.24 26.027 Drop 1  
85.555

26.833 Drop 2  
85.547

3.57



# N49RF AOC GPS Dropwindsonde Log

Flight ID 20140527 W1

Flight Director\_

ANDREW / AEFERAN

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Mission 100XWXA

Storm TRAIN 49

[illegible]