

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

FLT ID: 20130907I	From: TISX	To: TISX
FLT #:	Blk In: 2236 Z	Lnd Time: 2233 Z
ETD: 1430 Z	Blk Out: 1446 Z	T/O Time: 1456 Z
ETE:	Total Blk: 7:50 7.8	Total Ft: 7:37 7.6
Sponsoring Org: HRD	Program: FOR HWRF MODEL VERIFICATION	Purpose: REMENTS OF GABRIELLE

AOC Flight Crew

Aircraft Commander: NELSON	SSA: NAEHER
Co-Pilot: SWEENEY / MARTIN	AVAPS: NEWNAM /
Navigator: GALLAGHER /	Scientists: SAPP / HARTLEY
Flight Eng: DABBY / HEYSTEK	Scientists: JELENAK
Flt Director: DAMIANO /	Scientists: UHLHORN
SEB: GREENE / PEEK /	Scientists: ROGERS / ZHANG
Crew Chief:	Visitors: / /

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	1013.06	30.00 / 1012.85	1011.17	29.93 / 1010.49

AS REQUIRED BY GRM	YES	NO	REMARKS
VOLCANIC ASH		<input checked="" type="checkbox"/>	
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	23	Good: 18	Bad: 5	Sent: 18
AXBT	8	Good: 7	Bad: 1	Sent: 7

List other data sources in Remarks section

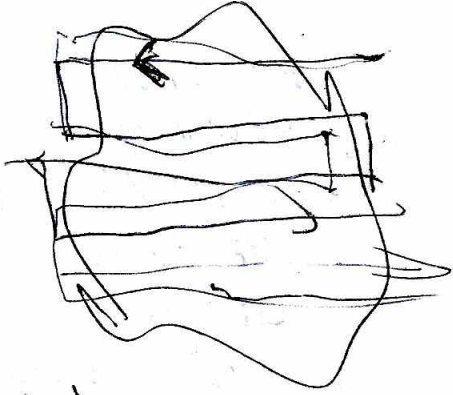
Remarks (Storm VDM Identifier, Mission ID, Fix Times)	Fix #	VDM Ob Num	Fix Time / SLP
Storm Number Identifier (VDM): (ie: AL072012)			
TCPOD/WSPOD Mission ID: W07A W07A GABRIELLE (ie: NOAA2 2418A SANDY)			

Remarks:
 IP 19N 66W wedge 120° (240) PHX
 PEAB DNR OPEN
 1014.28
~~143700~~ 145100 passed ASOS
 143700 Z

WE ~~07A~~ GABRIELLE

TEND
78

3448
2500 FT



32

center of low

34
6

OTS



15m

007

31.9

64.9



304



~~007~~



N43RF ERROR SUMMARY REMNANTS OF TS GABRIELLE



Flight ID: 20130907I1

<u>Sensor or system</u>	<u>Number or Name</u>
INE (for wind derivation)	INE2
Accelerometer	AccZfilterI-GPS.2
Temperature Probe	TTM.1
Dew Point Probe	TDM.2
Static Pressure	PSM.2
Dynamic Pressure	PQM.2
Vert. Wind	AltRa.2.c
Project Directory	/acdata/2013/MET/20130907I1

Notes:

There were no data gaps.

The measured EdgeTech (TDM.2) dewpoint temperature displayed erroneous values during the following time frames: 160421Z – 160429Z, 172405Z – 172455Z, 183539Z – 183558Z and 204038Z – 204113Z. The erroneous values were replaced via direct substitution using the Buck (TDM.1) dewpoint temperature values as a reference,

$$\text{TDM.2} = \text{TDM.1}$$

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 heavy 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.

Drosondes deployed 23; 18 good; 5 bad; 18 messages sent to NHC

AXBTs deployed 8; 7 good; 1 bad; 7 messages sent to NHC

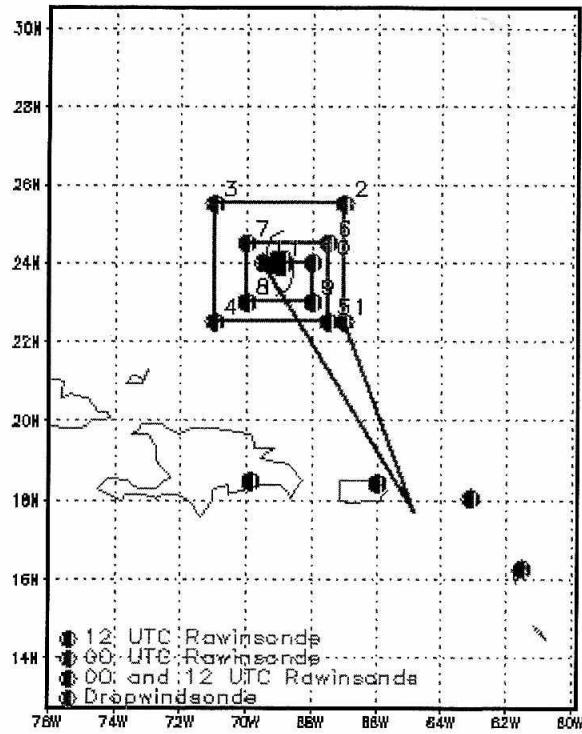
Takeoff(1456Z) Landing(2233Z)

Aircraft Static Pressure 1013.1mb 1011.2mb

Corrected Tower Pressure 1012.9mb 1010.5mb

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

N 42RF



GRADS: COLA/IBES

2013-08-21:18

