

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

FLT ID: 20130906H1	From: KMCF	To: TISX
FLT #:	Blk In: 2137 z	Lnd Time: 2134 z
ETD: 1500 z	Blk Out: 1505 z	T/O Time: 1517 z
ETE: 6+30	Total Blk: 6.5	Total Flt: 6.3
Sponsoring Org: HRD	Program: PHX	Purpose: OCEAN SURVEY

AOC Flight Crew

Aircraft Commander: GIRIMONTE	SSA: BOSKO
Co-Pilot: KIBREY, KERNS	AVAPS: RICHARDS
Navigator: SIEGEL	Scientists: Eric Uhlhorn
Flight Eng: KLIPPEL, PULS ^{Align}	Scientists: Paul Reasor
Flt Director: HENNING PARRISH	Scientists: Lisa Bucci
SEB: SAO SOUCH, T. LYNCH, SMITH	Scientists: Joe Cione
Crew Chief: SHINSON	Visitors: / /

Pressure	A/C - Takeoff PS2 1018.8	Wx Station - Takeoff 30.07 (STA 1018.1)	A/C - Land #2 1012.3	Wx Station - Land 29.92 (STA 1011.6)
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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		

NO DATA GAPS

TA 1011.6
56ft)

Dropsondes	Good:	Bad:	Sent:
AXBT	30	Good: 28	Bad: 2

Remarks (Storm VDM Identifier, Mission ID, Fix Times)	Fix #	VDM Ob Num	Fix Time / SLP
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Storm Number Identifier (VDM): (ie: AL072012)			
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TCPOD/WSPOD Mission ID: WAO7A GABRIELLE (ie: NOAA2 2418A SANDY)			
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Remarks:

30 NM
~~28 NM~~ 28 NM - 7 min

Dew Pt. #2
BAD

+10 30.07

Using B.nc



N42RF ERROR SUMMARY OCEAN SURVEY MISSION ENROUTE FROM MACDILL TO ST. CROIX



Flight ID: 20130906H1

<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.1X
Static Pressure	PSM.2
Dynamic Pressure	PQM.2
Vert. Wind	GPS.3 (Novatel)
Project Directory	/acdata/2013/MET/20130906H1

Notes:

There were no data gaps.

The measured (TDM.1) Buck dewpoint temperature displayed erroneous values during the mission. The erroneous values were replaced via direct substitution using the Port City (TDL...TDM.3) dewpoint temperature values as a reference and applying the appropriate offset during the following time periods:

173333Z – 173730Z, TDM.1 = TDM.3 + 7.0
181630Z – 181740Z, TDM.1 = TDM.3 + 4.5
192804Z – 192935Z, TDM.1 = TDM.3 + 9.0
200714Z – 201606Z, TDM.1 = TDM.3 + 5.0
212802Z – 213755Z, TDM.1 = TDM.3 + 4.0

During the time periods below, the Buck (TDM.1) dewpoint temperature displayed erroneous values during the mission. The erroneous values were removed and replaced by applying statistical techniques using the Port City (TDL...TDM.3) dewpoint temperature values as a reference.

The time periods are as follows: 164835Z – 164909Z, 182723Z – 182751Z, 183950Z – 184150Z, 185523Z – 185810Z, 192349Z – 192423Z, 202343Z - 202351Z, 200913Z – 202929Z, 203444Z – 203455Z and 204037Z – 204114Z.

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.

AXBTs deployed 30; 28 good; 2 bad; 28 WMO messages sent to NHC.

Takeoff(1517Z) Landing(2134Z)

Aircraft Static Pressure	1018.8mb	1011.3mb
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Corrected Tower Pressure	1017.7mb	1012.0mb
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Flight Director:	A. Barry Damiano	(813) 828-3310 ext. 3073
	Rich Henning	(813) 828-3310 ext. 3086

2013 09 06 H1

KnCF T10 RWY 04
30.07 1017.69

15172 T10
21342 LNP

PSM.1 1015.22

PSM.2 1018.96

213100
213755

~~T10~~
~~213426~~
~~213453~~
~~patch .35~~

73.7 ft = 22.31 m ~~TLSX~~

LND RWY 09
29.92 → 1012.04

22.5 ft
6.86 m

PSM.1 1006.86

+25

PSM.2 1011.29

213755

164835 - 164909 patch .25

TDM.1 fin

1649, ~~1733~~, ~~1738~~, 9 offset

173333 ✓ 173730
+ 9 offset

181630 ✓

181940

+4.5

~~181640~~, 182630, ~~183030~~

~~183440~~

~~1848~~

~~1852~~

1855 - 1859

185523 - 185810 ✓
.60

182723 ✓

182751

patch .25

20

1929

1929

2007 - 2016

~~202350~~

~~202920~~

~~203450~~

200714 - 201606
+5

204100

204037 - 204114 (20)

202913

202929 patch .35

203444

203455 patch .25

183950 ✓

184150

0.35 patch

202343

202351

patch .60

192804 - 192935 patch
+9

192349 - 192423

212802

0.35

213755 +4

MISSION PLAN: GABRIELLE

Prepared by the Hurricane Research Division File: current1.ftk

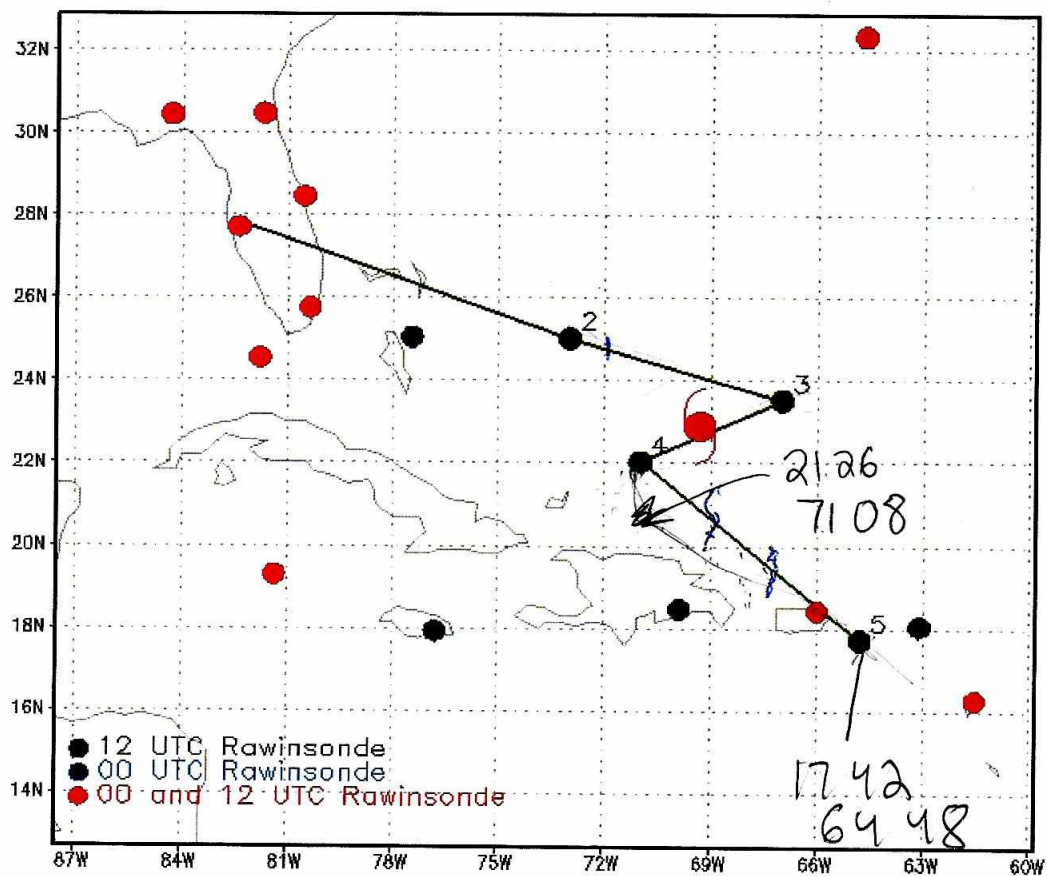
Aircraft: N42RF Proposed takeoff: 06/1400Z

TRACK DISTANCE TABLE

#	LAT (d m)	LON (d/m)	RAD/AZM (nm/dg)	LEG (nm)	TOTAL (nm)	TIME (h:mm)
1	MACDILL			0.	0.	0:01
2	25 00	73 00		540.	540.	2:22
3	23 30	67 00		341.	881.	3:51
4	22 00	71 00		239.	1120.	4:54
5	ST CROIX			435.	1556.	6:22

1730-6 L

#1	25	73	✓	29.3	✓	#16	68.5	28.9
#2		72.5	✓	29.2	✓	#17	69.0	29.1
#3		72.0	✓	29.4	✓	#18	69.5	29.1
#4		71.5	✓	29.2	✓	#19	70.0	29.2
#5		71.0	✓	29.1	✓	#20	70.5	29+
#6		70.5	✓	29.0	✓	#21	71.0	29.1
#7	24	70.0	✓	28.5	✓	#22	71.5	29.1
#8		69.5	✓	29.2	✓	#23	70.5	29.0
#9		69.0	✓	29.0	✓	#24	70.0	29.7
#10		68.5	✓	29.0	✓	#25	69.5	29.1
#11		68.0	✓	29.0	✓	#26	69.0	29.0
#12		67.5	✓	29.0	✓	#27	68.5	28.8
#13	23	67.0	✓	29.4	✓	#28	68.0	28.7
#14		67.5	✓	29.1	✓	#29	67.5	BAD
#15		68.0	✓	28.0		#30	67.0	BAD

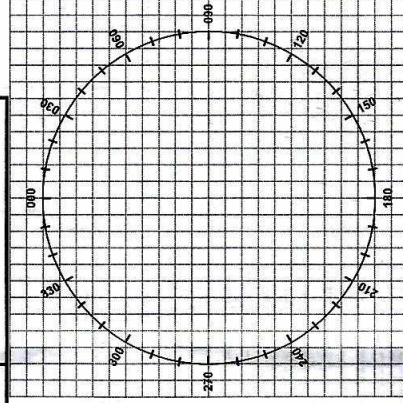


GrADS: COLA/IGES

2013-08-05-11:08

FRQ	ALT	HDG	T/SX	OTHER
176.77	8918	11330	CAF	R 080 71600
135.12	042		10K	10295767
132.13				
		13297		
132.5				
135.7	520			

PAGE OF



POSITION REPORT

- | 1. POSITION | 2. TIME | 3. ALTITUDE | 4. NEXT POS | 5. ETA | 6. NEXT POS |
|-------------|---------|-------------|-------------|--------|-------------|
| 1. POSITION | 2. TIME | 3. ALTITUDE | 4. NEXT POS | 5. ETA | 6. NEXT POS |

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:

UHF/VOICE	VHF/VOICE	MF/VOICE	HF/CW	MF/CW
243.0	121.5	2182 KHZ	8364 KHZ	500 KHZ

MAYDAY, MAYDAY, MAYDAY
THIS IS NOAA 42, NOAA 42, NOAA 42

- 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 18 SOULS ON BOARD

- NATURE OF EMERGENCY

- NATURAL DISASTERS
- ASSISTANCE DESIB

ASSIGNANCE DESIGN BUILT INTENTIONS

- PILOT INTENTIONS
- WE HAVE
- ENDURANCE REMAINING

[illegible]