

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

FLT ID: 20130910I From: TISX To: TISX
 FLT #: Blk In: 0237 Z Lnd Time: 0233 Z
 ETD: 1800 Z Blk Out: 1850 Z T/O Time: 1857 Z
 ETE: Total Blk: 7:47 (7.8) Total Flt: 7:36 (7.6)
 Sponsoring Org: NESDIS Program: HURRICANE Purpose: TS GABRIELLE NR BERMUDA

AOC Flight Crew

Aircraft Commander: NELSON SSA: NAEHER
 Co-Pilot: SWEENEY, MARTIN AVAPS: NEWNAM, I
 Navigator: GALLAGHER, I Scientists: CHANG
 Flight Eng: HEYSTEK, DARBY Scientists: JELENAK
 Flt Director: DAMIANO, I Scientists: SAPP
 SEB: PEEK, GREENE, I Scientists:
 Crew Chief: Visitors: / /

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	1012.854	29.96/1011.5	1013.31	30.01/1013.19

AS REQUIRED BY ORM	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"/>	<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: 3 Good: 2 Bad: 1 (at 593m) Sent: 2
 AXBT: 2 Good: 2 Bad: Sent: 2

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: WE07A GABRIELLE (ie: NOAA2 2418A SANDY)			

Remarks: GLOBAL HAWK AVI not flying 14 PASA firing rockets PND
 due to INU issues PCAB door closing in transit area
 TEAL 70 at 2500 FT 1013.30 AFFix 002 forecast
 at 202 1839202 2016Z 31.9 64.9
 IP 32N center 3130' 6451' 1006m
 30°N 64W of conv PASS AS05
 64°W 185330
 PORA band 10145

45
33
/5



N43RF ERROR SUMMARY IWRAP (NESDIS) TS GABRIELLE



Flight ID: 20130910I1

<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/20130910I1

Notes:

There were no data gaps.

The measured EdgeTech (TDM.2) dewpoint temperature displayed erroneous values during the following time frames: 220922Z – 221024Z, 235649Z – 235806Z and 000112Z – 000144Z. The erroneous values were replaced via direct substitution using the Buck (TDM.1) dewpoint temperature values as a reference,

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

Also during the time period 234025Z – 234035Z the measured EdgeTech (TDM.2) dewpoint temperature displayed erroneous values that were manually removed and replaced with values using statistical techniques with a patch value of 0.40.

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.

Dropsondes deployed 3; 2 good; 1 bad; 2 messages sent to NHC

AXBTs deployed 2; 2 good; 2 messages sent to NHC

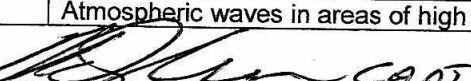
Takeoff(1857Z) Landing(0233Z)

Aircraft Static Pressure 1012.5mb 1013.3mb

Corrected Tower Pressure 1011.5mb 1013.2mb

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

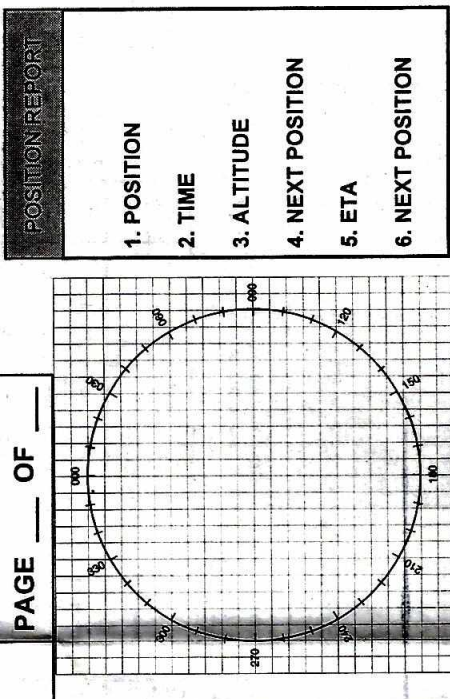
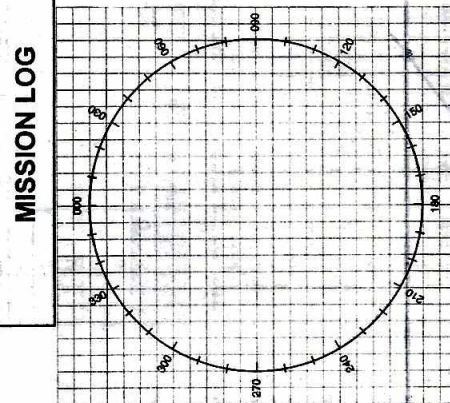
ATTACHMENT 1 (See the Fillable Form)

Hazards encountered during performance of duty	Date: <u>20130910J1</u>
Employee name(s): Recommended by: (Name and Title) 1. DAMIANO 2. PEEK 3. HEYSTEK 4. DARBY 5. NAEHER 6. GREENE 7. NEWNAM 8. 9. 10. 11. 12. 13. 14. 15. 16. 17.	Time of exposure or Flight Times (if applicable): Start: End: Time: Task Code:
Altitude chamber subject exposed to greater than 18,000 feet.	
Toxic chemical exposure.	
Explosive or incendiary devices (CAD).	
Initial or transitional pilot proficiency training involving simulated emergency procedures.	
Test flight of newly repaired or modified aircraft.	
Close formation flights.	
Flights at levels below 500 feet/ day	
Flights at levels below 1000 feet/ night	
Extreme Weather Conditions:	
Tropical Cyclones	
Winter storm low altitude convection or wind shear.	
Winter storm within 5000 feet of convective squall line.	
Winter storm within 100 nm of jet stream core entrance.	
Thunderstorms: In close proximity or through cumulonimbus, cumulus congestus clouds, or thunderstorms.	
Atmospheric waves within 5000 feet of mountains with winds greater than 25 knots.	
Atmospheric waves in areas of high boundary layer turbulence.	
 Approving Official Signature / Title	<u>9/10/2013</u> Date

29503040 3264 000 300 SIGMET 3 215 0315 15421 2115 31-30 6548010

480 TOPS 3345 6645

CLEARANCES		OTHER	
FREQ	ALT	HDG	OTHER
			154 RREQ 2667
			TRMO 4140 COX



EMERGENCY MESSAGE 0515

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 243.0 VHF/VOICE 121.5 MF/VOICE 2182 KHZ HF/VOICE 5364 KHZ 500 KHZ

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

- POSITION _____ N/S _____ E/W AT _____ Z

- HEADING _____ TRUE/MAG _____ KTS TRUE/INDICATED

- AT _____ FLIGHT LEVEL OR ALTITUDE _____ SOULS ON BOARD

- WE ARE A P-3 AIRCRAFT WITH _____ NATURE OF EMERGENCY _____ ASSISTANCE DESIRED _____ PILOT INTENTIONS _____ ENDURANCE REMAINING _____

- WE HAVE _____

TIME	FIX TYPE	POSITION	INS 1 POSITION	KERR	INS 2 POSITION	KERR	MH	VAR	TH	DR	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
1900	A	17-52.3 067-26.3	17-57.9 067-26.1	±1.1	17-57.9 067-26.1	±1.1	035	NSI	029	3L	019	237	075	14	PK	255	140	178	45	1945	
2000	A	17-50.8 067-40.4	17-50.8 067-40.4	±1.4	17-50.8 067-40.4	±1.4	313	NSI	328	-	328	315	188	11	FL	302	204	163	32	2132	
2100	A	17-28.9 067-21.9	17-25.2 067-14.5	±3.6	17-25.2 067-14.5	±3.6	218	NSI	202	-	202	210	197	32	7K	231	30	33	409	2302	
2200	A	17-24.2 067-40.6	17-22.6 067-26.3	±1.6	17-22.6 067-26.3	±1.6	215	NSI	200	-	200	325	110	6	FL	324	200	74	4	014	

11990 6302 309 06617

2120/0212 15115

128.5

25.00

0.521

2013

FIX TYPES (C) GPS (I) INS (F) RADIO (M) VISUAL (C) CELESTIAL (D) DR

MISSION LOG PAGE ___ OF ___

TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION	K ERR	MH	VAR +E-->	TH	DR +R-->	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS	
P	TARMO	26N062W	PRES		26N062W			26N062W	TARMO		TARMO											
T	2015	2046	2351					0044			0114											
A	FU10	FL190	FL160		FL200			FL200			FU100											
P	26N062W	PRES	26N062W					TARMO			YUYVO											
T	2047	2132	0047					0115			16145											
P	PRES	30N064W	TARMO					YUYVO			COY											

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