

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

FLT ID: 20140806N1	From: PHNL	To: PHNL
FLT #:	Blk In: 0107 Z	Lnd Time: 0102 Z
ETD: 1730Z Z	Blk Out: 1719 Z	T/O Time: 1740 Z
ETE: 8	Total Blk: 7:48(7.8)	Total Flt: 7:22(7.4)
Sponsoring Org: NHC	Program: Surveillance	Purpose: H. Iselle

AOC Flight Crew

Aircraft Commander: Meyers	SSA: Magaro
Co-Pilot: Mansow, Cowan	AVAPS: /
Navigator: /	Scientists: Forroster, Anne He (UH)
Flight Eng: /	Scientists
Flt Director: Parrish, Flaherty	Scientists
SEB: Hill, C. Lynch, Wawrocke	Scientists:
Crew Chief:	Visitors: /

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	1013.9 / 841	24/21 30.04 1013.5	1013.8	25352 31/17 30.00 1015.9
	1015.8 / 59Z	16532 Variable		04013621 V020-090

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			

Dropsondes	Good: 33	Bad: 0	Sent: 32 (AN/BS acc tilted data from sondes)
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 (VOM):			
(ie: AL072012)			
TCPOD/WSPOD Mission ID:			
(ie: NOAA2 2418A SANDY)			

Remarks:



N49RF ERROR SUMMARY

Flight ID: 20140806N1, Hurricane Iselle Surveillance

SENSOR OR SYSTEM	NUMBER OR NAME
Static Pressure Probe	PSM.2
Dynamic Pressure Probe	PQM.2
Total Temperature Probe	TTM.4
Dewpoint Temperature Probe	TDM.2
Vertical Accelerometer	AccZ1.1
Altimeter	AltGPS.3 (Novatel)
INE Selection	INE1
Dynamic Attack Pressure Probe	PDALPHA.2
Dynamic Sideslip Pressure Probe	PDBETA.2
Project Directory	/acdata/2014/MET/20140806N1

NOTES:

Data gap 163145Z-163332Z, well before takeoff.

It was noted that for the corrected radar altimeter (AltRa1.c) output, there were 2 second data dropouts approximately every 90 seconds .

The radar altimeter (AltRa.1) experienced missing data for the following times: Sporatically 175800-1819Z, 193825-193930Z, 201702-201754Z, 003917-003935Z.

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

# Dropsondes Dropped	# Good Dropsondes	# Messages sent to NHC
33	32	32

Note: Messages were requested to not be transmitted off the plane.

	Takeoff (1740Z) @PHNL	Land (0102Z) @ PHNL
Aircraft Static Pressure	1015.4 mb	1013.8 mb
Corrected Tower Pressure	1017.3 mb	1015.9 mb

20140806N1

Time	Lat	Lon	HDG	ALTPA	ALTRA	TA	TD	PS	WD	WS	UWZ	EVENT COMMENTS
165612	21.3211	-157.9104	52.9968	-42.7	-1.2	24.61	20.22	1014.81	51.3813	0.68	0.00	0.00
171859	21.3211	-157.9104	52.9876	-71.3	-1.2	25.80	20.32	1015.86	53.5274	0.68	0.00	before block out
171859	21.3211	-157.9104	52.9876	-71.3	-1.2	25.80	20.32	1015.86	53.5274	0.68	0.00	block out
172758	21.3218	-157.9139	231.1712	-56.4	-1.2	27.30	20.45	1015.31	58.9350	0.63	0.00	take off
173949	21.3068	-157.9400	88.7315	-79.2	-1.2	25.77	20.00	1016.15	83.8579	1.27	0.00	climbout
173949	21.3068	-157.9400	88.7315	-79.2	-1.2	25.77	20.00	1016.15	83.8579	1.27	0.00	climbout
175303	21.6330	-156.9206	50.8813	22839.4	7378.6	-12.73	-29.79	412.67	45.2868	-1.68	0.00	cont climb
175303	21.6330	-156.9206	50.8813	22839.4	7378.6	-12.73	-29.79	412.67	45.2868	-1.68	0.00	still climbing
181115	23.0134	-154.9377	34.3172	40943.6	12833.5	-58.52	-65.99	179.09	311.9495	-0.52	0.00	drop 1
182441	24.3136	-153.9901	89.9217	40975.1	13140.5	-58.48	-70.47	178.82	305.1993	-0.43	0.00	drop 2
183558	23.1884	-153.0193	90.1111	40960.0	13150.8	-58.05	-70.15	178.95	328.5991	-0.58	0.00	pt 3
184849	24.3112	-151.9658	96.6394	40966.7	13148.2	-58.64	-68.13	178.89	308.8482	-0.41	0.00	drop 4
185955	23.1880	-151.0145	87.9236	40962.0	13171.2	-58.26	-67.81	178.93	335.3255	-0.80	0.00	drop 5
191240	24.3138	-150.0057	84.4987	40965.1	13138.9	-57.88	-67.43	178.90	325.1666	-0.29	0.00	drop 6
192407	23.1878	-149.0025	84.5556	41979.9	13442.4	-59.64	-69.94	170.38	346.3560	-0.07	0.00	drop 7
193712	24.3134	-147.9813	90.0375	41937.4	13402.4	-60.35	-70.62	170.73	332.5763	-1.03	0.00	drop 8
194940	22.9954	-146.9948	142.0720	41945.0	13453.2	-60.11	-71.39	170.67	2.2182	-0.74	0.00	drop 9
200353	21.5610	-145.9710	220.1124	41926.1	13425.0	-60.48	-71.09	170.83	48.7005	-0.58	0.00	drop 10
201702	21.4260	-147.7113	235.1558	41920.0	13449.8	-59.65	-70.65	170.87	42.2463	-0.77	0.00	drop 11
202324	20.7128	-148.0042	140.5972	41941.6	13464.9	-60.19	-70.63	170.70	67.7443	-1.09	0.00	pt 12
202833	20.6087	-147.3996	98.2969	41962.2	13467.8	-60.05	-70.58	170.53	55.5518	-0.32	0.00	drop 13
203678	20.0308	-146.6188	135.9811	42931.0	13769.5	-62.62	-72.37	162.77	54.6409	-0.30	0.00	drop 14
204732	18.9938	-145.7985	145.3045	42927.0	13763.5	-62.13	-70.37	162.80	131.2382	-1.00	0.00	drop 15
210044	17.6947	-144.9952	148.6147	42906.9	13770.2	-62.56	-62.94	162.96	132.2545	-0.22	0.00	drop 16, E of eye
211428	16.2945	-145.6055	208.9363	43911.1	14029.9	-65.02	-66.18	155.28	128.5393	-0.24	0.00	drop 17
211430	16.2911	-145.6077	208.9431	43904.1	14043.4	-65.06	-66.21	155.33	127.1810	-0.02	0.00	drop 18
212536	15.3486	-146.6353	224.5075	43896.1	14026.4	-63.60	-70.56	155.39	119.2047	-0.10	0.00	drop 19
213221	14.8226	-147.3100	241.9717	43892.0	14017.3	-63.47	-71.98	155.42	123.2652	-0.45	0.00	drop n0
213848	14.8097	-148.1547	290.9823	43899.5	14014.5	-63.26	-72.56	155.37	96.4400	-0.40	0.00	drop 21
214554	15.3651	-148.8766	321.8402	43907.4	14010.1	-63.52	-72.84	155.31	73.7664	-0.37	0.00	drop 22
215635	16.4140	-149.6955	340.2474	43919.3	14030.7	-64.59	-72.73	155.22	53.8385	-0.27	0.00	drop 23
220803	17.7157	-149.9830	10.5508	43907.3	14037.8	-64.94	-73.88	155.31	49.7169	-0.37	0.00	drop 24
222014	19.0030	-149.5018	14.4203	43905.1	14038.2	-65.92	-74.38	155.32	42.9590	-0.48	0.00	drop 25
223126	20.2805	-149.3832	341.0686	44874.3	14338.7	-68.55	-75.20	148.25	62.7890	-0.41	0.00	drop 26
224225	21.4403	-150.0370	302.4081	44876.9	14325.9	-68.03	-74.73	148.23	79.4526	-0.25	0.00	drop 27
225944	21.5116	-152.2572	269.6232	44892.8	14353.8	-67.79	-74.33	148.12	166.3994	-0.48	0.00	drop 28
231225	21.3966	-153.8211	203.6996	44878.7	14338.8	-68.07	-74.22	148.22	216.2151	-0.52	0.00	drop 29
232612	20.0312	-152.9338	109.6275	44914.3	14354.8	-67.66	-73.84	147.97	45.6479	-0.46	0.00	drop 30
234108	19.8773	-151.1700	158.6081	44902.2	14344.7	-67.19	-73.92	148.05	49.5275	-0.48	0.00	drop 31
235410	18.5374	-152.0645	245.9977	44919.6	14349.4	-67.48	-73.94	147.93	54.8806	-0.39	0.00	drop 32
000857	18.5103	-154.0051	269.6729	44932.8	14354.6	-67.61	-74.38	147.84	106.5972	-0.50	0.00	drop 33 and last
002245	18.5343	-155.8013	296.0493	44918.0	14339.4	-68.23	-74.42	147.94	109.1349	-0.66	0.00	init descent
003245	19.6378	-156.0513	344.9120	44127.0	14085.6	-65.99	-73.70	153.68	55.3407	-1.32	0.00	descent
004500	20.6670	-157.2113	311.9496	17936.3	5753.6	-2.66	-40.73	507.17	58.9477	-0.10	0.00	final
010003	21.2774	-157.9792	52.1864	1186.4	374.8	25.69	16.25	970.54	31.8284	1.76	0.00	land
010147	21.3147	-157.9260	52.5013	1.6	1.9	30.18	17.70	1013.19	31.3019	1.05	0.00	

010147	21.3147	-157.9260	52.5013	1.6	1.9	30.18	17.70	1013.19	31.3019	1.05	0. 0.00	block
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16 24
145 48

N49RF AOC G' Tropwindsonde Log

Flight ID: 2014080601

Flight Director: *Parrish/Helody*

Mission ID: N00A9 0409C

Storm/Track: *ISELE*

Pg ____ of ____

Ch. #	Drop #	Sonde ID	Drop Time (UTC)	Lat (°N)	Lon (°W)	WX Cond.	L5/R5	SECTPS (mb)	Ob #	R5 Lowest Winds (Ht, Ws, Wd)	L5 Lowest Winds (Ht, Ws, Wd)	Sent Time (UTC)
1	1	123125004	181115	23.3	155	Set b/w		1018.2				
2	2	122455726	182441	24.3	154	Clr b/w		1018.5				
3	3	120915011	183558	23.2	153	Set b/w		1018.7				
4	4	122725190	184849	24.3	152	"		1018.4				
1	5	121115018	185955	23.1	151	"		1018.4				
2	6	120915032	191240	24.3	150	"		1017.6				
3	7	121115008	192407	23.2	149	sky low		1017.3				
4	8	121115089	193712	24.3	148	under low		1018.1				
1	9	121115006	194940	23	147	ben low		1017.2				
2	10	120915122	200353	21.5	146	thin under		1015				
3	11	114325189	201702	21.4	147.7	ben low		1016.1				
4	12	120915122	202324	20.7	148	Set b/w		1014.5				
1	13	114325189	202833	20.6	147.4	Set b/w		1014.5				
2	14	121115005	203628	20	146.6	Set b/w		1012.5				
3	15	121115021	204732	19		in cloud		1011.5				
4	16	123125001	210044	17.7	145	"						
1	17	120915160	211430	16.3	145.6	"						
2	18	121115123	212536	15.3	146.6	"						
3	19	123125007	213221	14.8	147.3	Other under		1011.3				
4	20	120915133	213948	14.8	149.2	"		1011.4				
1	21	114425064	214554	15.4	148.9	clr						
2	22	121115014	215635	16.4	149.7	ben b/w		1012.1				
3	23	120915105	220803	17.7	150	Set b/w		1011.6				
1	24	121115096	222014	19.0	149.5	"		1012.1				
4	25	122455085	223126	20.3	149.3	"		1012.9				
2	26	122455068	224225	21.4	150.0	Set b/w		1015.5				
1	27	120915101	225944	21.5	152.3	"		1014.1				
2	28	121115118	231225	21.4	153.8	"		1014.9				
3	29	122455116	232612	20	153	"		1014.4				
4	30	121115099	234108	19.8	151.2	"		1012.6				
1	31	123125005	235410	18.5	152.1	"		1012.5				
2	32	000857	121113099	18.5	154	Over mid low		1012.8				
3	33	000225	122455140	18.5	155.8	Set low		1012.8				

CPA E of 2010 ~65 mi, Acc Killed this one, no data, only way high.

Delayed due to specific

Last log

N49RF AOC G Dropwindsonde Log

Flight Director: RAEESH / FAHCTY

Storm/Track: _____

Pg 1 of 1

Flight ID: 0409C ISSUE

Mission ID: 20140826N1 2

Ch. #	Drop #	Sonde ID	Drop Time (UTC)	Lat (°N)	Lon (°W)	Wx Cond.	L5/R5	SFC Pts (mb)	Ob #	R5 Lowest Winds (Ht, Ws, Wd)	L5 Lowest Winds (Ht, Ws, Wd)	Sent Time (UTC)
1	1	25014	1811	23.3	-155	SCBCLW	R	1018.9	1			1845
2	2	55126	1824	24.3	-154	SCBCLW	R	1019.3	2			1850
3	3	15011	1836	23.1	-153	SCBCLW	R	1019.4	3			1909
4	4	25190	1848	24.3	-152	SCBCLW	R	1019.9	4			1922
5	5	15018	1859	23.2	-151	SCBCLW	R	1019.7	5			1930
6	6	15032	1912	24.3	-150	SCBCLW	R	1019.6	6			1939
7	7	15008	1924	23.2	-149	SCBCLW	R	1018.2	7			1955
8	8	15069	1937	24.3	-148	SCBCLW	R	1019.6	8			2009
9	9	15006	1949	23.0	-147	SCBCLW	R	1018.7	9			2100
10	10	15122	2003	21.5	-146	SCBCLW	R	1016.0	10			2101
11	11	25019	2017	20.4	-147.7		R	1017.0	11			2109
12	12	25093	2023	20.7	-148		R	1060	12			2110
13	13	25189	2028	20.6	-147.4		R	1059	13			2101
14	14	15005	2036	20.0	-146.6		R	1014.0	14			2118
15	15	15021	2047	19.9	-145.8		R	1012.4	15			2119
16	16	25001	2100	17.7	-145		R	1019.2	16			2133
17	17	15160	2114							SONDE TERMINATED - NO DATA		
18	18	15123	2125	15.3	-146.6	OVCBCLW	R	100.3	17			2150
19	19	25002	2132	14.8	-147.3	OVCBCLW	R	100.2	18			2154
20	20	15133	2134	14.8	-148.1	SCBCLW	R	1012.4	19			2204
21	21	25064	2145	15.3	-148.9	SCBCLW	R	1011.5	20			2209
22	22	15024	2150	16.4	-149.7	SCBCLW	R	103.5	21			2226
23	23	15105	2208	17.2	-150	SCBCLW	R	1012.3	22			2241
24	24	15296	2220	19.0	-149.5	"	R	1013.1	23			2300
25	25	55035	2231	20.2	-149.4	"	R	1013.8	24			2308
26	26	55068	2242	21.4	-150.0	"	R	1016.5	25			2323
27	27	15101	2259	21.5	-150.3	"	R	1016.4	26			2329
28	28	15118	2312	21.4	-153.8	"	R	1015.7	27			2352
29	29	55116	2326	20.0	-153	"	R	1015.4	28			0005
30	30	15099	2341	19.9	-151.2	"	R	1014.1	29			0007
31	31	25005	2354	18.5	-152.0	SCBCLW	R	1013.4	30			0015
32	32	15092	0004	18.5	-154	SCBCLW	R	1013.7	31			0035
33	33	55140	0022	18.5	-155.8	SCBCLW	R	1013.8	32			0049

Project: Hurricane 2014Mission: IselleFlight ID: 20140806NTake Off: 1740

Landing: _____

Flt Dir: ParrishLauncher S/N: 02

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	123125014	1	Ø	1811	JW	NWS		✓
2	122455126	2	Ø	1824				✓
3	120915011	3	Ø	1836				✓
4	122725190	4	Ø	1848				✓
5	121115018	1	Ø	1859			EARLY LAUNCH DETECTION ASPEN, BUT NOT AT R/L5	✓
6	120915032	2	Ø	1912				✓
7	121115008	3	Ø	1924				✓
8	121115089	4	Ø	1937				✓
9	121115006	1	Ø	1949				✓
10	120915122	2	Ø	2003				✓
11	123125019	3	Ø	2017				✓
12	123125093	4	Ø	2023				✓
13	114325189	1	Ø	2028				✓
14	121115005	2	Ø	2036				✓
15	121115021	3	Ø	2047				✓
16	123125001	4	Ø	2100				✓
17	120915160	1	Ø	2114	JH		No data. Had five sondes in cabin w/ sensors.	✓
18	121115123	2	Ø	2125				✓
19	123125007	3	Ø	2132				✓
20	120915133	4	Ø	2138				✓
21	114425064	1	Ø	2145				✓
22	121115024	2	Ø	2156				✓
23	120915105	3	Ø	2208				✓
24	121115096	1	Ø	2220				✓
25	122455085	4	Ø.9	2231				✓
26	122455068	2	Ø	2242				✓
27	120915101	1	Ø	2259				✓
28	121115118	2	Ø	2312				✓
29	122455116	3	Ø	2326				✓
30	121115099	4	Ø	2341				✓
31	123125005	1	Ø.7	2354				✓
32	121115092	2	Ø	00:09				
33	122455140	3	0.4	00:22				
34								