

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

FLT ID: 20140807N1	From: PHNL	To: PHNL
FLT #:	Blk In: 0145 Z	Lnd Time: 0141 Z
ETD: 1730 Z	Blk Out: 1724 Z	T/O Time: 1735 Z
ETE: 8+	Total Blk: 8121(8.4)	Total Flt: 8:06(8.1)
Sponsoring Org: NHC	Program: Surveillance	Purpose: H-IT 16 4. Turic

AOC Flight Crew

Aircraft Commander: Mayes	SSA: Mayes
Co-Pilot: Monsieur / C. C. C.	AVAPS: 1
Navigator: 1	Scientists:
Flight Eng: 1	Scientists
Flt Director: P. J. Flaherty	Scientists
SEB: Hill / C. Lynch / L. L. L.	Scientists:
Crew Chief:	Visitors: 1 1

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	1014.3	16532 26/19 30.51 1014.3	1012.2	00532 28/22 29.46 060/11

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	38	Good: 36	Bad: 2	Sent: 36
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AXBT		Good:	Bad:	Sent:
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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: (ie: NOAA2 2418A SANDY)			

Remarks:

Remote AWP's traces were pretty today.
FDLog ~~was~~ missing many



N49RF ERROR SUMMARY

Flight ID: 20140807N1, Hurricane Iselle, Julio 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	AccZI.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/20140807N1

NOTES:

Data gap 165354-5541Z, 165648-165713, 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
38	36	36

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

	Takeoff (1735Z) @PHNL	Land (0141Z) @ PHNL
Aircraft Static Pressure	1014.3 mb	1013.8 mb
Corrected Tower Pressure	1016.3 mb	1014.6 mb

20140807N1	Lat	Lon	Heading	AltPA	Altra	IAS	PS	WD	WS	UWZ	EVENT COMMENTS	test
171245	21.3211	-157.9104	53.8769	0.00	-1.3	-45.07	-58.09	227.94	332.3924	14.24	-0.99	0.00
172119	21.3211	-157.9104	53.8826	0.00	-1.4	-57.48	-65.89	178.92	314.8051	5.57	-0.59	0.00
172335	21.3211	-157.9104	53.8778	0.00	-1.3	-57.19	-69.04	178.98	281.5576	4.75	-0.30	0.00
173451	21.3253	-157.9396	89.5499	0.00	-1.3	-57.35	-70.23	178.93	263.2662	3.37	-0.70	0.00
173754	21.2212	-157.7946				-56.91	-62.39	178.92	117.3496	9.98	-1.22	0.00
175843	21.0511	-155.4001	89.1473	35925.4	11509.7	-45.07	-62.57	179.09	144.2028	1.22	-0.18	0.00
180528	21.0173	-154.4957	73.9143	40962.6	13150.6	-57.38	-68.74	178.91	205.8006	12.68	-0.16	0.00
181353	21.4443	-153.4836	91.6666	40955.7	13146.0	-60.43	-65.74	170.83	197.2465	5.31	-0.40	0.00
182226	20.9702	-152.4715	133.1578	40961.6	13169.2	-60.51	-65.73	170.81	208.5800	5.92	-0.35	0.00
183258	20.1459	-151.4801	86.5060	40963.1	13161.4	-58.91	-67.22	170.67	191.9846	5.33	-0.70	0.00
184323	21.0022	-150.5052	32.6864	40942.8	13154.0	-58.01	-68.91	170.87	168.0474	6.55	-0.53	0.00
185945	22.7878	-149.4915	95.9370	40964.6	13148.1	-62.83	-71.02	162.88	188.4012	7.87	-0.54	0.00
191551	21.2229	-148.4433	68.5435	41925.9	13444.6	-62.32	-71.84	162.91	115.2227	11.69	-0.79	0.00
193041	22.7882	-147.5037	90.7583	41928.0	13438.1	-62.93	-71.85	162.93	112.4115	9.47	-0.27	0.00
194709	21.0809	-146.4813	126.5297	41945.5	13451.9	-63.40	-70.80	162.87	107.8380	7.51	-0.49	0.00
200224	21.0116	-144.4877	90.7773	41920.1	13416.0	-62.98	-69.16	162.89	106.0949	8.51	-0.50	0.00
201745	20.9696	-142.5108	115.2102	42916.7	13739.0	-65.03	-70.59	155.49	68.9312	9.00	-0.72	0.00
203603	19.4497	-140.8759	102.6219	42913.1	13756.7	-63.44	-71.03	155.33	52.9376	7.46	-0.62	0.00
Julio circumnav						-65.59	-68.64	155.36	9.7134	6.59	-0.22	0.00
203939	19.5443	-140.4589	63.9225	42910.4	13752.7	-65.24	-69.55	155.31	19.5269	11.29	-0.31	0.00
204643	19.9074	-139.6647	77.2498	42918.0	13765.5	-65.02	-70.30	155.23	25.9090	13.52	-0.28	0.00
205725	19.9082	-138.3408	102.3503	42915.1	13759.6	-64.15	-70.81	155.36	50.8825	11.90	-0.66	0.00
210819	19.3472	-137.1464	127.2646	42927.6	13769.3	-64.45	-72.18	155.19	62.8558	14.66	-0.34	0.00
211930	18.2961	-136.3078	152.9689	43883.1	14044.5	-64.45	-72.83	155.28	73.1380	17.70	-0.59	0.00
213034	16.9915	-136.0097	179.5708	43904.7	14030.4	-66.30	-74.58	148.11	85.5077	17.94	-0.65	0.00
214112	15.7031	-136.3094	205.4644	43899.8	14044.6	-65.36	-74.94	148.17	68.4559	13.91	-0.64	0.00
215138	14.6581	-137.1420	232.4097	43907.4	14030.3	-66.96	-75.41	148.00	100.0165	7.64	-0.92	0.00
220151	14.0934	-138.3385	260.1631	43918.2	14019.3	-67.32	-75.33	148.15	111.1126	9.11	-0.69	0.00
221206	14.0943	-139.6666	285.4940	43900.6	14019.2	-66.43	-75.29	147.87	143.3657	7.47	-1.12	0.00
222230	14.6740	-140.8643	317.7182	43922.8	14027.6	-65.69	-75.76	148.21	245.5554	0.90	-0.68	0.00
223213	15.6995	-141.4975	338.1466	43911.3	14023.1	-67.11	-72.61	148.21	91.2517	4.25	-0.64	0.00
224333	17.0079	-141.9831	0.7458	44894.1	14320.9	-66.84	-72.80	148.04	239.2534	4.75	-0.29	0.00
225406	18.2414	-141.7875	340.2403	44885.9	14332.1	-66.91	-71.68	148.07	113.6984	6.99	-1.11	0.00
230533	18.9908	-143.0161	282.4049	44910.0	14326.2	-66.19	-71.80	148.03	128.7548	6.55	-0.58	0.00
230610	19.0021	-143.1131	269.4639	44888.1	14319.3	-66.82	-71.92	147.95	127.6709	7.59	-0.77	0.00
232055	19.0322	-145.0133	269.0413	44927.9	14331.4	-66.10	-73.51	148.04	107.5915	7.38	-0.75	0.00
233625	19.0428	-147.0114	269.0768	44880.1	14330.6	-65.63	-74.44	147.88	105.3144	2.87	-0.65	0.00
235214	19.0321	-149.0250	267.3670	44880.1	14323.8	-65.96	-74.38	147.83	285.9073	4.79	-0.64	0.00
000651	18.9792	-150.8908	246.1503	44903.6	14305.0	-65.39	-74.67	149.62	305.4168	5.63	-0.94	0.00
001645	17.9968	-151.5075	213.5653	44899.7	14308.0	-65.39	-74.67	149.62	305.4168	5.63	-0.94	0.00
002717	17.0841	-152.4160	221.2205	44906.0	14319.4	-65.39	-74.67	149.62	305.4168	5.63	-0.94	0.00
003708	16.5520	-153.5161	271.2860	44916.8	14314.3	-65.39	-74.67	149.62	305.4168	5.63	-0.94	0.00
004536	17.0004	-154.4915	307.0098	44904.6	14312.8	-65.39	-74.67	149.62	305.4168	5.63	-0.94	0.00
005657	17.9986	-155.5026	310.1885	44926.4	14326.6	-65.39	-74.67	149.62	305.4168	5.63	-0.94	0.00
011016	18.9353	-156.9022	304.4919	44934.3	14330.1	-65.39	-74.67	149.62	305.4168	5.63	-0.94	0.00
011246	19.1814	-157.0711	338.2209	44682.7	14246.7	-65.39	-74.67	149.62	305.4168	5.63	-0.94	0.00

[illegible]

N49RF AOC G' ropwindsonde Log

Flight ID: 20140801N1

Flight Director: Persin / Elchewy

Mission ID: 00AA9 0110C JULIO

StormTrack: Telle & Julio (double) mission

Pg 1 of 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	114325195	180528	21.5	154.5	Set low		1014				
2	2	114325250	181353	21.5	153.5	"		1014.2				
3	3	121115086	182226	20.9	152.5	Skny mid low		1012.8				
4	4	14325248	183258	20.1	151.5	Overcast CDO		1009.9				
5	5	112545252	184323	21.5	150.5	Set low		1013.7				
6	6	132355245	185945	22.8	149.5	Low overcast		1015.7				
7	7	132345127	191551	21.2	148.4	Low "		1011.8				
8	8	114325106	193041	22.8	147.5	Low "		1017.8				
9	9	132355228	194709	21.1	146.5	clr b/w		1016.5				
10	10	132355247	200224	21	144.5	undercast low		1016.6				
11	11	114325110	201745	21	142.5	"		1015.8				
12	12	114325242	203603	19.5	140.9	Skny low						
13	13	112545279	203939	19.5	140.4	"		1012.9				
14	14	114325251	205725	19.9	138.3	Thin cirrus		1013.7				
15	15	12545114	210819	19.3	137.1	Overcast		1011.0				
16	16	112545274	211930	18.3	136.3	At top of CDO		1010.3				
17	17	114325256	213034	17	136	at top of CDO		1007.9				
18	18	112545212	214712	15.7	136.3	in top of CDO		1009.8				
19	19	132355233	215138	14.7	137.1	Very thin CDO		1010.0				
20	20	112545286	220151	14.1	138.3	Set low		1010.4				
21	21	114325093	221206	14.1	139.7	Thin CDO b/w		1009.4				
22	22	132355249	222230	14.7	140.8	Thin CDO b/w		1010.4				
23	23	112545145	223213	15.7	141.5	Skny low		1011.0				
24	24	112545245	224333	17.0	142.0	Low overcast		1009.8				
25	25	132355239	225406	18.2	141.8	Skny low		1011.5				
26	26	112545130	230553	19.0	143.0	"		1011.3				
27	27	114335008	232618	19.0	143.1	Skny low		1012.8				
28	28	112545214	233625	19.0	147.0	clr		1013.5				
29	29	112545225	235214	19	149	Skny low		1013.4				
30	30	132355254	000651	18.9	150.1	At top of		1011.4				
31	31	114325107	001045	18.0	151.5	"		1009.3				

Begin Sub C. cum non
Backup PT 12
PHKO

PHKO

No launch detected
Backup PT 26

N49RF AOC G Tropwindsonde Log

Flight Director:

FRAS4 / FATH227

Storm/Track:

Pg 1 of 2

Flight ID:

20140807N1

Mission ID:

N4490110C J440

Ch. #	Drop #	Sonde ID	Drop Time (UTC)	Lat (°N)	Lon (°W)	Wx Cond.	L5/R5	SFC Prs (mb)	Ob #	R5 Lowest Winds (Ht, Ws, Wd)	L5 Lowest Winds (Ht, Ws, Wd)	Sent Time (UTC)
1	1	25195	1805	21	-134.5	SCB BW	R	1015.1	1			1832
2	2	25250	1813	21.4	-133.5	SCB BW	R	1015.5	2			1850
3	3	15086	1822	21	-132.5	BK BW	R	1014.2	3			1908
4	4	25248	1832	20.1	-131.5	OVC BW	R	1016.6	4			1912
1	5	45252	1843	21	-130	OVC BW	R	1015.2	5			1913
2	6	55245	1859	22.8	-149.5	BK BW	R	1015.0	6			1921
3	7	45127	1913	21.2	-148.5	BK BW	R	1018.0	7	ED (1750) FOR SFC WND		1938
4	8	25206	1930	22.8	-147.5	OVC BW	R	1018.8	8			1956
1	9	55278	1947	21	-146.5	BK BW	R	1017.4	9			2010
2	10	55287	2002	21	-144.5	BK BW	R	1017.5	10			2107
3	11	25110	2017	21	-142.5	BK BW	R	1016.8	11			2111
4	12	25242	2036							BAD SUNE - NO WINDS - DEAD EARLY		2116
1	13	45279	2039	19.5	-140.5	OVC BW	R	1014.6	12			2118
2	14	55232	2046	20.0	-139.6	"	R	1014.7	13			2123
3	15	25251	2057	19.9	-138.3	"	R	1014.2	14			2131
4	16	45114	2108	19.3	-137.1	"	R	1011.9	15			2143
1	17	45274	2119	18.3	-136.3	"	R	1011.2	16			2150
2	18	25256	2130	17	-136	"	R	1009.0	17			2201
3	19	45212	2141	15.7	-136.3	BK BW	R	1010.8	18			2240
4	20	55233	2157	14.6	-137.1	SCB BW	R	1016.0	19			7242
1	21	45286	2201	14.1	-138.4	"	R	1011.3	20			7244
2	22	25093	2212	14.1	-139.7	"	R	1011.4	21			2257
3	23	55249	2222	14.6	-140.9	"	R	1011.3	22			7341
4	24	45245	2232	15.7	-141.5	BK BW	R	1012.0	23			2358
1	25	45245	2243	17.0	-142.0	"	R	1012.2	24			2359
2	26	55239	2254	18.2	-141.8	"	R	1012.4	25			2359
3	27		2305							BAD SUNE		2359
4	28	45296	2308	19	-143.1	OVC BW	R	1013.6	26			2359
1	29	35008	2320	19	-145	"	R	1014.4	27			2359
2	30	45214	2336	19	-147	"	R	1014.4	28			2359
3	31	45225	2352	19	-149	"	R	1014.3	29			2359
4	32	55254	0006	19	-150.9	"	R	1012.2	30			2359
1	33	25107	0016	18	-151.5	"	R	1010.3	31			2359

BACK-UP

BACK-UP

N49RF AOC G' Tropwindsonde Log

Flight ID: 20140807N1

Flight Director:

Berrill Flaherty

Mission ID: 20A09 0110C Sub

Storm/Track:

mission

Pg 2 of 2[illegible]

N49RF AOC G' Tropwindsonde Log

PAROSH / FLATKEY

Flight ID: 20140807 N1

Flight Director:

Pg 2 of 2

Mission ID: NOAA90110C JUL0

Storm/Track:

Ch. #	Drop #	Sonde ID	Drop Time (UTC)	Lat (°N)	Lon (°W)	Wx Cond.	L5/R5	SFC PIs (mb)	Ob #	R5 Lowest Winds (Ht, Ws, Wd)	L5 Lowest Winds (Ht, Ws, Wd)	Sent Time (UTC)
2	34	45241	0027	17	-153.4	OVC BLW	R5	1010.2	32			0055
3	35	25117	0032	16.5	-152.5	OVC BLW	R5	1010.2	33			0100
4	36	25213	0045	17	-154.5	OVC BLW	R5	1010.5	34			0107
1	37	45140	0057	18	-155.5	BRN BLW	R5		35	SONDE DEAD AT 980mb		0117
2	38	25218	0110	19	-156.4	SCT BLW	R5		36	SONDE TERMINAL EARLY		0136

Project: Hurricane 2014

Mission: ISELE/JULIO Flight ID: 20140807N1Take Off: 1736Landing: 0141Flt Dir: Jack/PAULLauncher S/N: 002

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	114325195	1	Ø	1805	JW	NWS		✓
2	114325250	2	Ø	1813	↑	↑		✓
3	121115086	3	Ø	1822				✓
4	114325248	4	Ø	1832				✓
5	112545252	1	Ø	1843				✓
6	132355245	2	Ø	1859				✓
7	132345127	3	Ø	1915				✓
8	114325106	4	Ø	1930				✓
9	132355228	1	.4	1947				✓
10	132355247	2	Ø	2002				✓
11	114325110	3	Ø	2017				✓
12	114325242	4	.4	2036			GPS Dried on launch, Ceased @ 9:29	✗
13	112545279	1	Ø	2039				✓
14	132355232	2	Ø	2046				✓
15	114325251	3	Ø	2057				✓
16	112545114	4	Ø	2108				✓
17	112545274	1	Ø	2119				✓
18	114325256	2	Ø	2130				✓
19	112545212	3	Ø	2141				✓
20	132355233	4	.4	2151				✓
21	112545286	1	Ø	2201				✓
22	114325093	2	.3	2212				✓
23	132355249	3	.4	2222				✓
24	112545145	4	.3	2232				✓
25	112545245	1	Ø	2243				✓
26	132355239	2	.5	2254				✓
27	112545130	3	Ø	2305			No Launch Defect	✗
28	112545290	4	.3	2306				✓
29	114335008	1	Ø	2320				✓
30	112545214	2	Ø	2336				✓
31	112545225	3	Ø	2352				✓
32	132355254	4	.6	0006				✓
33	114325107	1	Ø	0016	↓	↓		
34	112545241	2	.3	0027	JW	NWS		

12 p/u

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NOAA G-IV Flight Track Drop Locations for JULIO (EP102014)

On 2014080800 the storm was centered at 17;-59

