

NOAA Aircraft Operations Center - NOAA 49 Flight Manifest

FLIGHT INFORMATION				CREW MANIFEST				MISSION INFORMATION				
FLT ID:	20180819N1	FLT #:		AC:	Twining	Scientists:		Pressure		Dropsondes		
From:	PHNL	ETD:		CP(s):	Waddington			A/C Takeoff		Good	Bad	Sent
To:	PHNL	ETA:			Sims			Wx Station Takeoff				
Block Time		Flight Time		Nav(s):				A/C Land		BTs		
In:	0126	In:	0121	FE(s):				Wx Station Land		Good	Bad	Sent
Out:	1722	Out:	1737	FD(s):	Sears							
Total:		Total:			Flaherty							
Sponsoring Org:				SEB:	Hartberger			Storm Number ID:				
Program:					Smith			(ie: AL072012)				
Purpose:				SSA:	Defeo			TCPOD/WSPOD Mission				
				AVAPS:	Miller			(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					X							
SCIENCE MISSION WITHIN BDRY LAYER					X							
LACK OF PRECIPITATION					X							
RELATIVE HUMIDITY ≥ 80%					X							
LARGE AIR-SEA TEMP GRADIENT					X							
HIGH SURFACE WINDS					X							
LONG FETCH / DURATION OF SFC WND					X							
SEA SALT ACCRETION FORECAST					X							
SEA SALT ACCRETION OBSERVED												
Additional Remarks:				*Highlighted items must be completed before departure.								
Cockpit Gmax:				Gmin:								

N49RF ERROR SUMMARY
H. LANE

Flight ID: 20180819N1

Sensor or System	Number or Name
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Static Pressure Probe	PSM.2
Dynamic Pressure Probe	PQM.2
Total Temperature Probe	TTM.1
Dewpoint Temp. Probe	TDM.1
Vertical Accelerometer	AccZI.1
Altimeter	AltGPS.3
INE Selection	1
Differential Attack Pressure Probe	PDALPHA.2
Differential Sideslip Pressure Probe	PDBETA.2
Dynamic Attack Pressure Probe	PQALPHA.2
Dynamic Sideslip Pressure Probe	PQBETA.2

Flight Directory acdata/2018/MET/20180819N1

Local Met Data	Takeoff PHNL (1737Z)	Landing PHNL (0121Z)
Dynamic Corrections		Yes
AttackAngleIntercept		3.97801
AttackAngleSlope		3.86172
SlipAngleIntercept		1.258
SlipAngleSlope		6.69941
AttackAngleIntercept2		5.04641
AttackAngleSlope2		5.41847
SlipAngleIntercept2		0.905
SlipAngleSlope2		6.78464

Notes:

There were no edits made in the measured parameters used to calculate meteorological and navigational parameters. Wind and humidity data are suspect. Takeoff/Landing data: Data during landing and takeoff are potentially suspect. It is recommended that ground data not be used for scientific analysis.

Expendable Type	# deployed	# good	# transmitted
-----	-----	-----	-----
Dropsondes	31	30	30
Test sondes	1	1	0
AXBTS	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: SEARS

Phone #: 863.500.3986

ACAT-4 Version = 7.1

APPENDIX 2 – GIV QC Checklist

Flight ID:	20180819N1
Flight Director(s):	Sears

Pressure Comparison		
	T/O	Land
Aircraft	1014.8	1013.6
Tower	1014.5	1013.5

UWZ.d mean: 0.00

	Raw 1Hz Mean File Parameters				C File Parameters	
<input checked="" type="checkbox"/> Accelerometer	AccAXI.1	AccAYI.1	AccAZI.1		AccZref	
	AccAXI.2	AccAYI.2	AccAZI.2			
	AccAXI.3	AccAYI.3	AccAZI.3			
<input checked="" type="checkbox"/> Altitude	AltGPS.1	AltI.1	AltPaADDU.1	AltBCADDU.1	ALTref	
	AltGPS.2	AltI.2	AltPaADDU.2	AltBCADDU.2	ALTPA.d	
	AltGPS.3	AltI.3	AltRA.1		ALTGA.d	
<input checked="" type="checkbox"/> Ground Speed	GsXI-GPS.1	GsXI.1	GsGPS.1	GsXGPS.1	GSXref	
	GsXI-GPS.2	GsXI.2	GsGPS.2	GsXGPS.2	GSYref	
	GsYI-GPS.1	GsXI.3		GsYGPS.1	GSZref	
	GsYI-GPS.2	GsYI.1	GsZI.1	GsYGPS.2		
	GsZI-GPS.1	GsYI.2	GsZI.2	GsZGPS.1		
	GsZI-GPS.2	GsYI.3	GsZI.3	GsZGPS.2		
<input checked="" type="checkbox"/> Lat/Lon	LatGPS.1	LatI.1	LonGPS.1	LonI.1	LATref	
	LatGPS.2	LatI.2	LonGPS.2	LonI.2	LONref	
	LatGPS.3		LonGPS.3			
<input checked="" type="checkbox"/> Pressure	PDALPHA.1	PQALPHA.1	PQM.1	PSM.1	PDALPHAref	PQMref
	PDALPHA.2	PQALPHA.2	PQM.2	PSM.2	PDBETAref	PQ.c
	PDBETA.1	PQBETA.1	PQM.11	PSM.11	PQALPHAref	PSMref
	PDBETA.2	PQBETA.2			PQBETAref	PS.c
<input checked="" type="checkbox"/> Air Speed	CasADDU.1	TasADDU.1	IasADDU.1		IAS.d	TAS.d
<input checked="" type="checkbox"/> Pitch/Roll	PitchI.1	PitchRateI.1	RollI.1	RollRateI.1	PITCHref	
	PitchI.2	PitchRateI.2	RollI.2	RollRateI.2	ROLLref	
	PitchI.3	PitchRateI.3	RollI.3	RollRateI.3		
<input checked="" type="checkbox"/> Temp/Dewpt	TTM.1	TTM.11	TDM.1		TD.c	TTMref
	TTM.2	TTM.13	TDM.2		TDMref	TA.d
	TTM.3	TTM.4	TDM.11			
<input checked="" type="checkbox"/> Miscellaneous (must check)					UWZ.d	WS.d
					DPJ_WSZ	WD.d
					HUM	

Mission Documents:

<input checked="" type="checkbox"/>	Error Summary
<input checked="" type="checkbox"/>	Crew Manifest
<input checked="" type="checkbox"/>	QC checklist
<input checked="" type="checkbox"/>	Dropwindsonde Log(s) – AVAPS and FD if completed
<input checked="" type="checkbox"/>	Miscellaneous FD notes

NOTES:

N49RF AOC G^r ropwindsonde Log

Flight ID: 20180819N1

Flight Director: FLAHERTY / SEARS

Mission ID: 0114E LANE

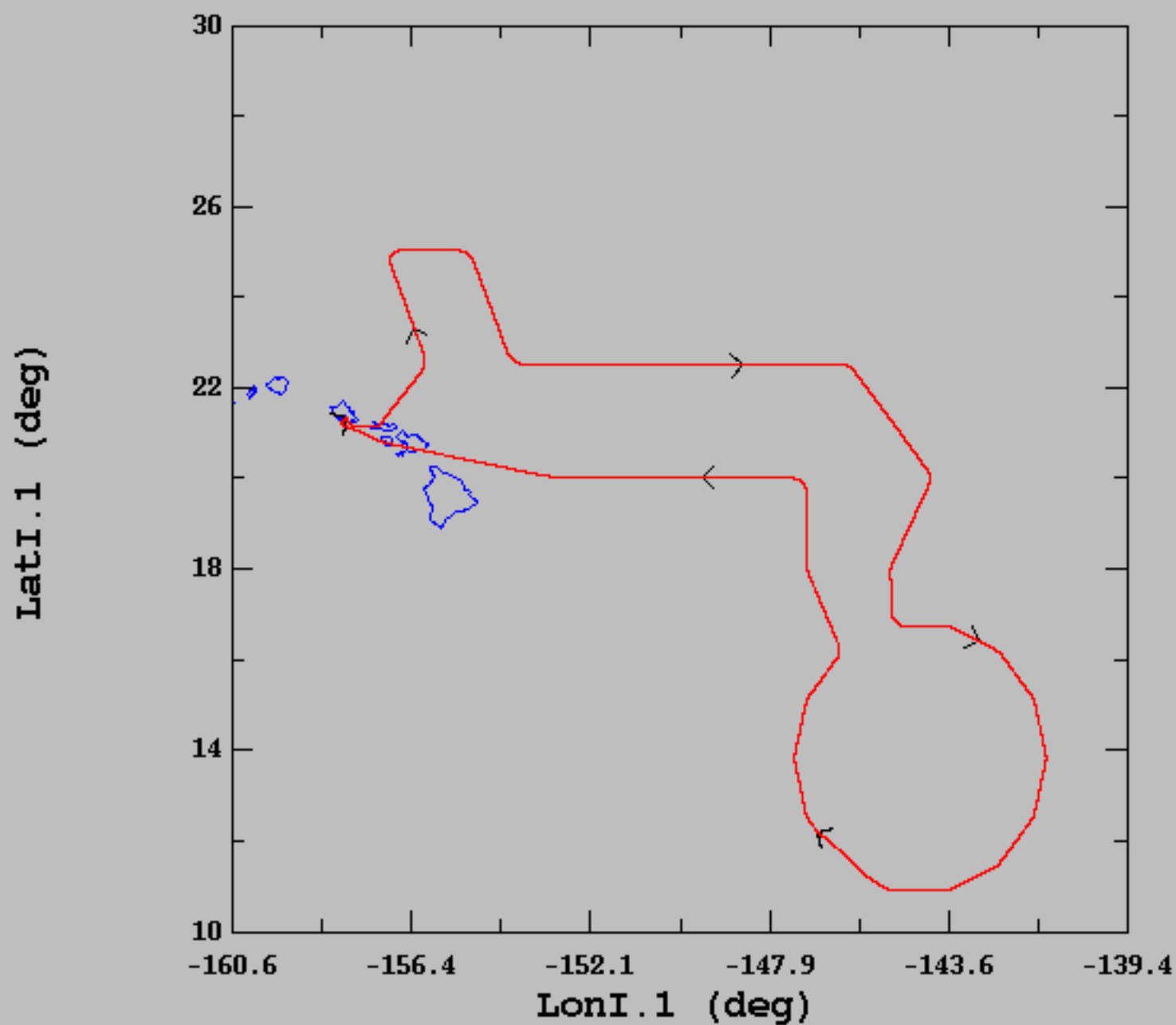
Storm/Track: HURRICANE LANE

30/31
+1
Pg 1 of 1

5340
5890

Drop #	Ob #	Sonde ID	Drop Time (UTC)	Lat (°N)	Lon (°E)	Wx Cond.	L5/R5?	SFC Prs (mb)	Last Wind Alt (m)	Comments	Ch #	SatComm failures	KWBC #
1	1	45126	1800			SCT BLW	R	1016.4			1		11842
2	2	25038	1821			SCT BLW	R	1017.6			2		1854
3	3	25029	1835			"	"	1018.7			3		1908
4	4	55057	1852			"	"	1012.3			4		1929
5	5	25132	1911			"	"	1018.0			1		1938
6	6	25040	1925			"	"	1017.3			2		1950
7	7	35116	1939			"	"	1017.9			3		2025
8	8	25054	1953			"	"	1019.4			4		2027
9	9	25143	2006			"	"	1016.5			1		2030
10	10	15121	2019			"	"	1016.0			2		2038
11	11	25015	2030			BKN BLW	"	1014.5			3		2056
12	12	15121	2047			OVC BLW	"	1013.1			4		2108
13	13	55021	2057			OVC	"	1012.7			1		2124
14	14	25003	2108			"	"	1012.5			2		2127
15	15	35201	2118			"	"	1012.3			3		2137
16	16	55239	2130			OVC BLW	"	1011.1			4		2158
17	17	25177	2141			OVC BLW	"	1010.5			1		2238
18	18	15101	2152			SCT BLW	"	1009.4			2		2240
19	19	15146	2203			SCT BLW	"	1009.1			3		2244
20	20	35096	2214			BKN BLW	"	1008.7			4		2249
21	21	15122	2224			"	"	1008.0			1		2257
22	22	55023	2236			OVC BLW	"	1008.5			2		2301
23	23	25136	2246			BKN BLW	"	1010.4			3		2345
24	24		2258			SCT BLW	"				(4)	BAD GPS	
25	25	25039	2259			BKN BLW	"	1010.5			4	BACK UP	2348
26	26	25091	2309			SCT BLW	"	1010.8			2		2355
27	27	25024	2325			SCT BLW	"	1012.9			3		2359
28	28	15109	2341			SCT BLW	"	1014.4			4		0005
29	29										(1)	TEST SONDE	
30	30	15100	2356			SCT BLW	"	1014.9			2		0020
31	31	15070	0012			SCT BLW	"	1014.4			3		0037
32	32	15097	0029			SCT BLW	"	1014.8			4		0048

2018-08-19, 16:39:09-25:28:37



	mean	sigma	min	max
— LatI.1 (deg), 1 s/sec	19.14	3.85	10.89	25.03
— LonI.1 (deg), 1 s/sec	-150.17	5.61	-158.02	-141.28