

NOAA Aircraft Operations Center - NOAA 49 Flight Manifest

FLIGHT INFORMATION				CREW MANIFEST				MISSION INFORMATION				
FLT ID:	20180926H1	FLT #:		AC:	PRICE	Scientists:		Pressure		Dropsondes		
From:	MRLB	ETD:		CP(s):	KAHN	ZAWISLAK		A/C Takeoff		Good	Bad	Sent
To:	MRLB	ETA:			ROSSI	ROGERS						
Block Time		Flight Time		Nav(s):	RICHARDS	ZHANG		Wx Station Takeoff		16	2	14
In:	2045	In:	2042			CHANG				BTs 3		
Out:	1549	Out:	1557	FE(s):	SANCHEZ	JELENAK		A/C Land		Good	Bad	Sent
						SAPP						
Total:	4.9	Total:	4.8	FD(s):	Sears			Wx Station Land				
Sponsoring Org:		HRD		SEB:	MASCARO			Storm Number ID:				
Program:					GREENE			(ie: AL072012)				
Purpose:		EP96 GENESIS		SSA:	MCALISTER			TCPOD/WSPOD Mission				
								(ie: NOAA2 2418A SANDY)				
				AVAPS:								
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:

Cockpit Gmax:

Gmin:

*Highlighted items must be completed before departure.

N42RF ERROR SUMMARY
20180926H1

Flight ID: 20180926H1

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

Flight Directory acdata/2018/MET/20180926H1

Local Met Data	Takeoff MRLB (1557Z)	Landing MRLB (2042Z)
Dynamic Corrections		Yes
AttackAngleIntercept		2.31252
AttackAngleSlope		6.06758
SlipAngleIntercept		0.4295
SlipAngleSlope		7.17033

Notes:

There were no edits made in the measured parameters used to calculate meteorological and navigational parameters.

Takeoff/Landing data: Data during landing and takeoff are potentially suspect. It is recommended that ground data not be used for scientific analysis.

Note: QC accomplished by Mike Holmes (mike.holmes@noaa.gov).

PDAlpha.2 INOP and PSM.1 was unrepresentative throughout flight. Neither of these instrument failures affected the real-time collection or the post processed data as neither were selected as the source instrument.

Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	16	14	14
Test sondes	0	0	0
AXBTs	3	3	3
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Sears
Phone #:

ACAT-4 Version = 7.2.2

APPENDIX 1 – P3 QC Checklist

Flight ID:	20180926#1
Flight Director(s):	Scars

Pressure Comparison		
	T/O	Land
Aircraft	1002	<input checked="" type="checkbox"/>
Tower	1003	<input checked="" type="checkbox"/>

UWZ.d mean: -0.03 m/s

	Raw 1Hz Mean File Parameters				C File Parameters	
<input checked="" type="checkbox"/> Accelerometer	<input checked="" type="checkbox"/> AccAXI.1	<input checked="" type="checkbox"/> AccAYI.1	<input checked="" type="checkbox"/> AccAZI.1	<input checked="" type="checkbox"/> AccZfilter-GPS.1	<input checked="" type="checkbox"/> AccZref	
	<input checked="" type="checkbox"/> AccAXI.2	<input checked="" type="checkbox"/> AccAYI.2	<input checked="" type="checkbox"/> AccAZI.2	<input checked="" type="checkbox"/> AccZfilter-GPS.2		
	<input checked="" type="checkbox"/> AccAXI-GPS.1	<input checked="" type="checkbox"/> AccAYI-GPS.1	<input checked="" type="checkbox"/> AccAZI-GPS.1			
	<input checked="" type="checkbox"/> AccAXI-GPS.2	<input checked="" type="checkbox"/> AccAYI-GPS.2	<input checked="" type="checkbox"/> AccAZI-GPS.2			
<input checked="" type="checkbox"/> Altitude	<input checked="" type="checkbox"/> AltGPS.1	<input checked="" type="checkbox"/> AltI-GPS.1	<input checked="" type="checkbox"/> AltPaADDU.1	<input checked="" type="checkbox"/> AltRA.1	<input checked="" type="checkbox"/> ALTref	<input checked="" type="checkbox"/> AltRA1.c
	<input checked="" type="checkbox"/> AltGPS.2	<input checked="" type="checkbox"/> AltI-GPS.2	<input checked="" type="checkbox"/> AltBCADDU.1	<input checked="" type="checkbox"/> AltRA.2	<input checked="" type="checkbox"/> ALTPA.d	<input checked="" type="checkbox"/> AltRA2.c
	<input checked="" type="checkbox"/> AltGPS.3				<input checked="" type="checkbox"/> ALTGA.d	
	<input checked="" type="checkbox"/> AltGPS.4					
<input checked="" type="checkbox"/> Ground Speed	<input checked="" type="checkbox"/> GsXI-GPS.1	<input checked="" type="checkbox"/> GsYI-GPS.1	<input checked="" type="checkbox"/> GsZI-GPS.1		<input checked="" type="checkbox"/> GSXref	
	<input checked="" type="checkbox"/> GsXI-GPS.2	<input checked="" type="checkbox"/> GsYI-GPS.2	<input checked="" type="checkbox"/> GsZI-GPS.2		<input checked="" type="checkbox"/> GSYref	
					<input checked="" type="checkbox"/> GSZref	
<input checked="" type="checkbox"/> Lat/Lon	<input checked="" type="checkbox"/> LatGPS.1	<input checked="" type="checkbox"/> Lati-GPS.1	<input checked="" type="checkbox"/> LongGPS.1	<input checked="" type="checkbox"/> Loni-GPS.1	<input checked="" type="checkbox"/> LATref	
	<input checked="" type="checkbox"/> LatGPS.2	<input checked="" type="checkbox"/> Lati-GPS.2	<input checked="" type="checkbox"/> LongGPS.2	<input checked="" type="checkbox"/> Loni-GPS.2	<input checked="" type="checkbox"/> LONref	
	<input checked="" type="checkbox"/> LatGPS.3		<input checked="" type="checkbox"/> LongGPS.3			
	<input checked="" type="checkbox"/> LatGPS.4		<input checked="" type="checkbox"/> LongGPS.4			
<input checked="" type="checkbox"/> Pressure	<input checked="" type="checkbox"/> PDALPHA.1	<input checked="" type="checkbox"/> PQALPHA.1	<input checked="" type="checkbox"/> PQM.1	<input checked="" type="checkbox"/> PSM.1	<input checked="" type="checkbox"/> PDALPHAref	<input checked="" type="checkbox"/> PQMref
	<input checked="" type="checkbox"/> PDALPHA.2	<input checked="" type="checkbox"/> PQBETA.1	<input checked="" type="checkbox"/> PQM.2	<input checked="" type="checkbox"/> PSM.2	<input checked="" type="checkbox"/> PDBETAref	<input checked="" type="checkbox"/> PQ.c
	<input checked="" type="checkbox"/> PDBETA.1		<input checked="" type="checkbox"/> PQM.3	<input checked="" type="checkbox"/> PTM.1	<input checked="" type="checkbox"/> PQALPHAref	<input checked="" type="checkbox"/> PSMref
	<input checked="" type="checkbox"/> PDBETA.2		<input checked="" type="checkbox"/> PQM.4		<input checked="" type="checkbox"/> PDBETAref	<input checked="" type="checkbox"/> PS.c
<input checked="" type="checkbox"/> Air Speed	<input checked="" type="checkbox"/> CasADDU.1	<input checked="" type="checkbox"/> TasADDU.1	<input checked="" type="checkbox"/> IasADDU.1		<input checked="" type="checkbox"/> IAS.d	<input checked="" type="checkbox"/> IAS.d
<input checked="" type="checkbox"/> Pitch/Roll	<input checked="" type="checkbox"/> PitchI.1	<input checked="" type="checkbox"/> PitchRateI.1	<input checked="" type="checkbox"/> RollI.1	<input checked="" type="checkbox"/> RollRateI.1	<input checked="" type="checkbox"/> PITCHref	
	<input checked="" type="checkbox"/> PitchI.2	<input checked="" type="checkbox"/> PitchRateI.2	<input checked="" type="checkbox"/> RollI.2	<input checked="" type="checkbox"/> RollRateI.2	<input checked="" type="checkbox"/> ROLLref	
	<input checked="" type="checkbox"/> PitchI.3	<input checked="" type="checkbox"/> PitchRateI.3	<input checked="" type="checkbox"/> RollI.3	<input checked="" type="checkbox"/> RollRateI.3		
<input checked="" type="checkbox"/> Temp/Dewpt	<input checked="" type="checkbox"/> TTM.1	<input checked="" type="checkbox"/> TDM.1	<input checked="" type="checkbox"/> TRadD.1		<input checked="" type="checkbox"/> TD.c	<input checked="" type="checkbox"/> TTMref
	<input checked="" type="checkbox"/> TTM.2	<input checked="" type="checkbox"/> TDM.2	<input checked="" type="checkbox"/> TRadS.1		<input checked="" type="checkbox"/> TDMref	<input checked="" type="checkbox"/> TA.d
	<input checked="" type="checkbox"/> TTM.3	<input checked="" type="checkbox"/> TDM.3	<input checked="" type="checkbox"/> TRadU.1			
<input checked="" type="checkbox"/> Miscellaneous (must check)					<input checked="" type="checkbox"/> UWZ.d	<input checked="" type="checkbox"/> WS.d
					<input checked="" type="checkbox"/> WPI-WSZ	<input checked="" type="checkbox"/> WD.d
					<input checked="" type="checkbox"/> HUM	

FLID_Mission Documents.pdf:

<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"/> Flight Track
<input checked="" type="checkbox"/> Miscellaneous FD notes

NOTES:

PSM.1 Failed/Inop.
PDALPHA.2 Inop

NOAA • AOC • SED N42RF AVAPS DROP LOG

Lead Tech: Mike Mascaro

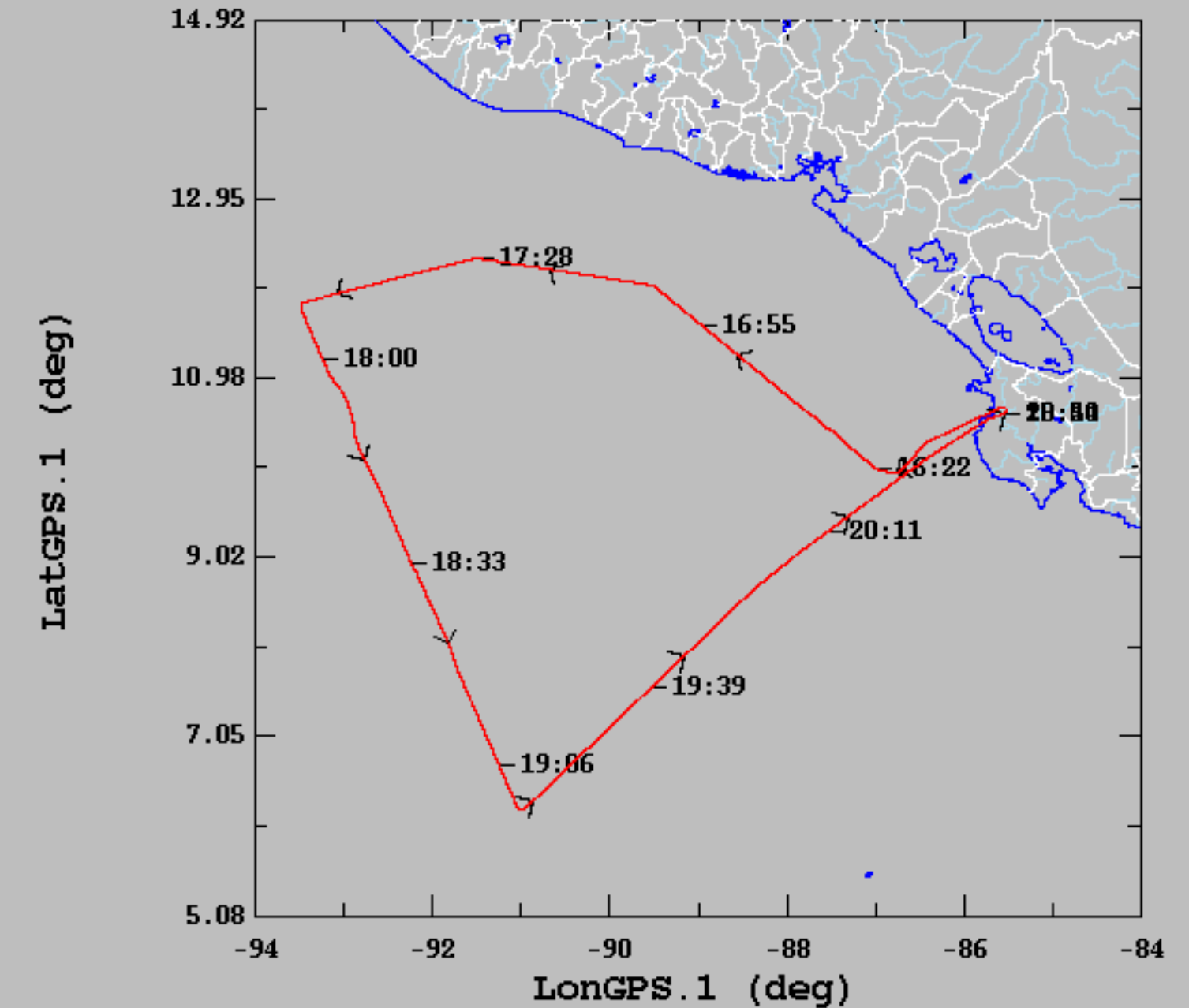
Project: Hurricane 2018

Mission: Costa Rica Genesis Flight ID: 20180926H1Take Off: 1000LLanding: _____ Flt Dir: SEAS

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	164345125	1	-0.3		Mac	HRD	RD94 Pt1	✓
2	164345186	2	-0.2	1637			Combo / Fast Fall Pt2	FF
3	163615053	1	-1.2	1638			Backup to Combo Pt2	✓
4	163835124	1	-0.4	1651			Combo Pt3	✓
5	163615057	2	-1.7	1657			RD94 Pt4	✓
6	164545011	1	-0.4	17??			RD94 Pt5	✓
7	122225079	1	-1.2	1754			IR Pt6 ^{initial Fast Fall}	✓
8	163025002	2	Ø	1754			RD94 Pt6 ^{backup}	✓
9	122225067	3	-1.6	1809			IR Pt7	✓
10	122225127	1	-1.1	1824			IR / DT Combo Pt8	✓
11	122225068	2	-1.0	1841			IR IR Pt9	✓
12	122225081	1	-0.8	1857			IR Pt10	✓
13	122225072	2	-1.4	1913			IR Pt11	✓
14	163845017	1	-0.4	1930	I	I	RD94 Pt12	✓
15	164015152	1	-0.5	1948	I	I	RD94 Pt13	✓
16	164545053	2	-0.1		I	I	RD94 Pt14	
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20180926H1 Flight Track

2018-09-26, 15:50:09-20:44:31



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	9.82	1.75	6.23	12.30
LongGPS.1 (deg), 1 s/sec	-89.64	2.45	-93.48	-85.51