NOAA Aircraft Operations Center - NOAA 49 Flight Manifest

FLIGHT INFORMATION

FLT ID:	20180927H1	**FLT #:**	
From:	MRLB	**ETD:**	
To:	MRLB	**ETA:**	

Block Time		**Flight Time**	
In:	2037	In:	2033
Out:	1243	Out:	1300
Total:	7.9	Total:	7.6

Sponsoring Org:	HRD
Program:	
Purpose:	EP96 GENESIS

CREW MANIFEST

AC:	PRICE	**Scientists:**
CP(s):	KAHN	ZAWISLAK
	ROSSI	ROGERS
Nav(s):	RICHARDS	ZHANG
		CHANG
FE(s)	SANCHEZ	
	LALONDE	SAPP
FD(s):	Sears	
		Visitors:
SEB:	MASCARO	
	GREENE	
SSA:	MCALISTER	
AVAPS:		

MISSION INFORMATION

Pressure		**Dropsondes**		
		Good	Bad	Sent
A/C Takeoff		18	1	17
Wx Station Takeoff		**BTs** (4)		
A/C Land		Good	Bad	Sent
Wx Station Land				

Storm Number ID: (ie: AL072012)	
TCPOD/WSPOD Mission (ie: NOAA2 2418A SANDY)	

AS REQUIRED BY ORM	Y	N	REMARKS
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		X	

OBSERVATIONS

Fix Number	Obs Number	Fix Time	SLP

Additional Remarks:

Cockpit Gmax: Gmin:

*Highlighted items must be completed before departure.

N42RF ERROR SUMMARY
20180927H1

Flight ID: 20180927H1

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/20180927H1

Local Met Data	Takeoff MRLB (1300Z)	Landing MRLB (2033Z)
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 PDBeta.2 failed during both the transit to and from the storm environment was. Neither of these instrument failures affected the real-time collection or the post processed data as neither were seleceted as the source instrument.

Expendable Type	# deployed	# good	# transmitted
Dropsondes	18	17	17
Test sondes	0	0	0
AXBTs	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Sears

APPENDIX 1 – P3 QC Checklist

Flight ID:	20180922H1
Flight Director(s):	Sears

UWZ.d mean: ~0.01 m/s

Pressure Comparison		
	T/O	**Land**
Aircraft	1000	✓
Tower	1001	✓

	Raw 1Hz Mean File Parameters				C File Parameters	
✓ Accelerometer	✓ AccAXI.1	✓ AccAYI.1	✓ AccAZI.1	✓ AccZfilter-GPS.1	✓ AccZref	
	✓ AccAXI.2	✓ AccAYI.2	✓ AccAZI.2	✓ Acc-Zfilter-GPS.2		
	✓ AccAXI-GPS.1	✓ AccAYI-GPS.1	✓ AccAZI-GPS.1			
	✓ AccAXI-GPS.2	✓ AccAYI-GPS.2	✓ AccAZI-GPS.2			
✓ Altitude	✓ AltGPS.1	✓ AltI-GPS.1	✓ AltPaADDU.1	✓ AltRA.1	✓ ALTref	✓ AltRA1.c
	✓ AltGPS.2	✓ AltI-GPS.2	✓ AltBCADDU.1	✓ AltRA.2	✓ ALTPA.d	✓ AltRA2.c
	✓ AltGPS.3				✓ ALTGA.d	
	✓ AltGPS.4					
✓ Ground Speed	✓ GsXI-GPS.1	✓ GsYI-GPS.1	✓ GsZI-GPS.1		✓ GSXref	
	✓ GsXI-GPS.2	✓ GsYI-GPS.2	✓ GsZI-GPS.2		✓ GSYref	
					✓ GSZref	
✓ Lat/Lon	✓ LatGPS.1	✓ Lati-GPS.1	✓ LonGPS.1	✓ Loni-GPS.1	✓ LATref	
	✓ LatGPS.2	✓ Lati-GPS.2	✓ LonGPS.2	✓ Loni-GPS.2	✓ LONref	
	✓ LatGPS.3		✓ LonGPS.3			
	✓ LatGPS.4		✓ LatGPS.4			
✓ Pressure	✓ PDALPHA.1	✓ PQALPHA.1	✓ PQM.1	✓ PSM.1	✓ PDALPHAref	✓ PQMref
	✓ PDALPHA.2	✓ PQBETA.1	✓ PQM.2	✓ PSM.2	✓ PDBETAref	✓ PQ.c
	✓ PDBETA.1		✓ PQM.3	✓ PTM.1	✓ PQALPHAref	✓ PSMref
	✓ PDBETA.2		✓ PQM.4		✓ PQBETAref	✓ PS.c
✓ Air Speed	✓ CasADDU.1	✓ TasADDU.1	✓ TasADDU.1		✓ TAS.d	✓ TAS.d
✓ 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		
✓ Temp/Dewpt	✓ TTM.1	✓ TDM.1	✓ TRadD.1		✓ TD.c	✓ TTMref
	✓ TTM.2	✓ TDM.2	✓ TRadS.1		✓ TDMref	✓ TA.d
	TTM.3	TDM.3	TRadU.1			
✓ Miscellaneous (must check)					✓ UWZ.d	✓ WS.d
					✓ DPJ_WSZ	✓ WD.d
					✓ HUM	

FLID_Mission_Documents.pdf:

✓	Error Summary
✓	Crew Manifest
✓	QC checklist
✓	Dropwindsonde Log(s) – AVAPS and FD if completed
✓	Flight Track
✓	Miscellaneous FD notes

NOTES:

PDAlpha.2 EMOP.
PDBeta.2 failed during trans + to and from storm area.

NOAA • AOC • SED N42RF AVAPS DROP LOG Lead Tech: Mike Mascaro

Project: Hurricane 2018 Mission: Costa Rica Genesis Flight ID: 20180927H1

Take Off : 0700L Landing: _____ Flt Dir : Sears

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge $$ To	Comments	Good ?
1	12222506 6	1	-1.4	1449	MAC	HRD	IR/Combo/Point 1	✓
2	163455113	2	Ø	1502			RD94 Point 2	✓
3	163025043	1	Ø	1515			RD94 Point 3	✓
4	122225078	1	-1.Ø	1528			IR/Combo/Point 4	✓
5	163615065	2	Ø	1549			RD94 Point 5	✓
6	164545036	1	-Ø.1	1604			RD94 Point 6 Fast Fall	FF
7	164625174	2	Ø	1608			RD94 Backup Point 6	✓
8	122225062	1	-1.5	1618			IR/BT Combo Point 7	✓
9	163025040	2	Ø	1632			RD94 Point 8 Momentary OPS loss	✓
10	164625189	3	Ø	1633			RD94 Point 8 Back up	✓
11	164615111	1	Ø	1645			RD94 Point 9	✓
12	122225075	3	-1.5.	1659			IR/BT Combo Point 10	✓
13	163025057	2	Ø	1713			RD94 Point 11	✓
14	163255029	1	+0.3	1726			RD94 Point 12	✓
15	164015187	3	-0.3	1739			RD94 Point 13	✓
16	163255047	2	Ø	1752			RD94 Point 14	✓
17	154215118	1	-0.5	1806			RD94 Point 15	✓
18	164015164	3	-0.2	1818			RD94 Point 16	
~~19~~	~~164445103~~	~~2~~	~~-1.0~~					
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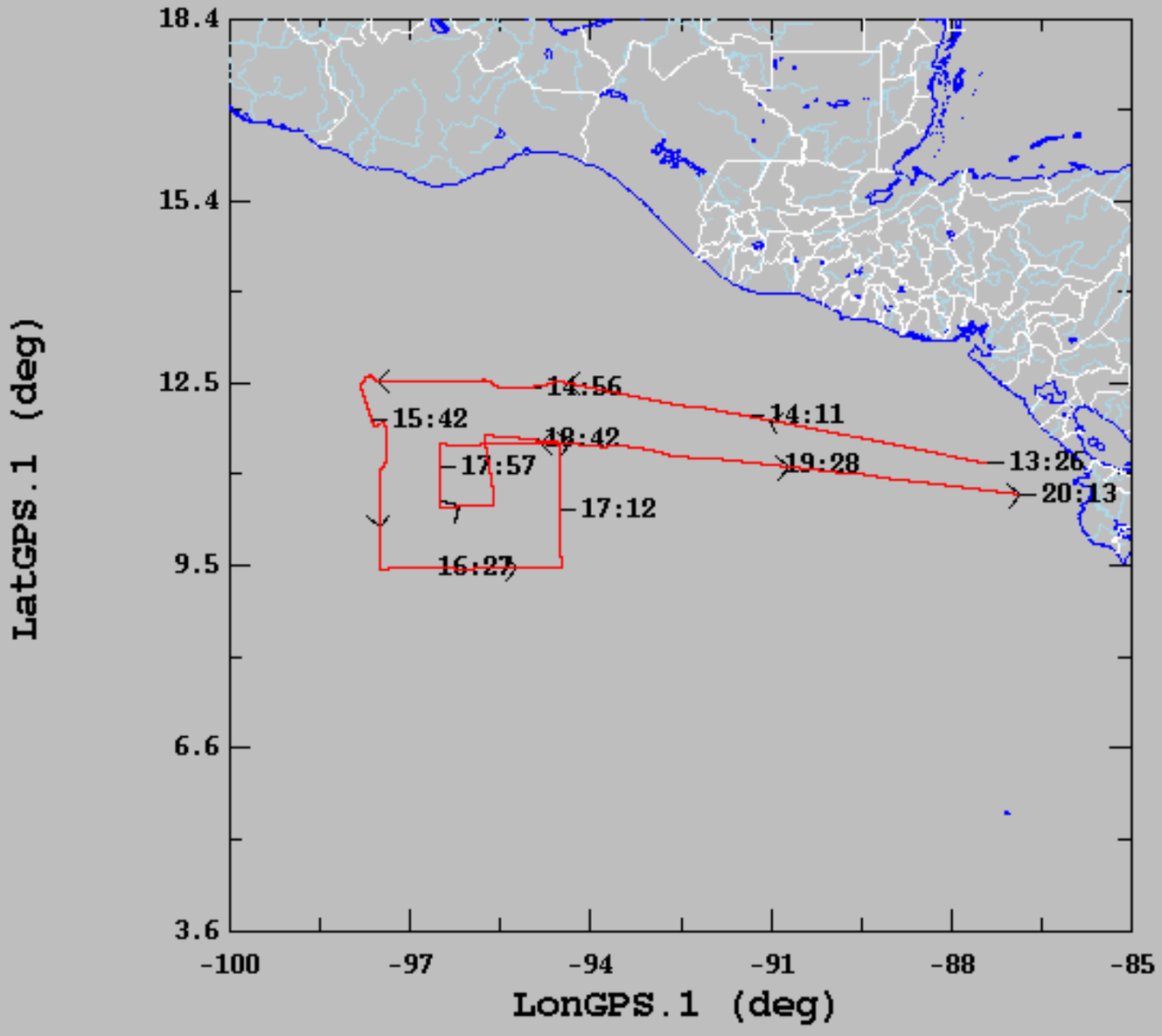
20190927H1 Flight Track

2018-09-27, 13:26:26-20:13:19



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	11.22	0.88	9.46	12.59
LonGPS.1 (deg), 1 s/sec	-93.94	3.00	-97.81	-86.84