

## NOAA Aircraft Operations Center - NOAA 49 Flight Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20180927H1	FLT #:		AC:	PRICE	Scientists:	Pressure		Dropsondes		
From:	MRLB	ETD:		CP(s):	KAHN	ZAWISLAK	A/C Takeoff		Good	Bad	Sent
To:	MRLB	ETA:			ROSSI	ROGERS			18	1	17
Block Time		Flight Time		Nav(s):	RICHARDS	ZHANG	Wx Station Takeoff		BTs (4)		
In:	2037	In:	2033			CHANG					
Out:	1243	Out:	1300	FE(s):	SANCHEZ		A/C Land		Good	Bad	Sent
					LALONDE	SAPP					
Total:	7.9	Total:	7.6	FD(s):	Sears		Wx Station Land				
Sponsoring Org:		HRD		SEB:	MASCARO	Visitors:	Storm Number ID:				
Program:					GREENE		(ie: AL072012)				
Purpose:		EP96 GENESIS		SSA:	MCALISTER		TCPOD/WSPOD Mission				
				AVAPS:			(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					X						

Additional Remarks:

\*Highlighted items must be completed before departure.

Cockpit Gmax:

Gmin:

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 selected 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:	20180927H1
Flight Director(s):	Scars

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

UWZ.d mean: -0.01 m/s

	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	✓ AccZfilter-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	
✓ 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 <i>see note →</i>	✓ 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	✓ HasADDU.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

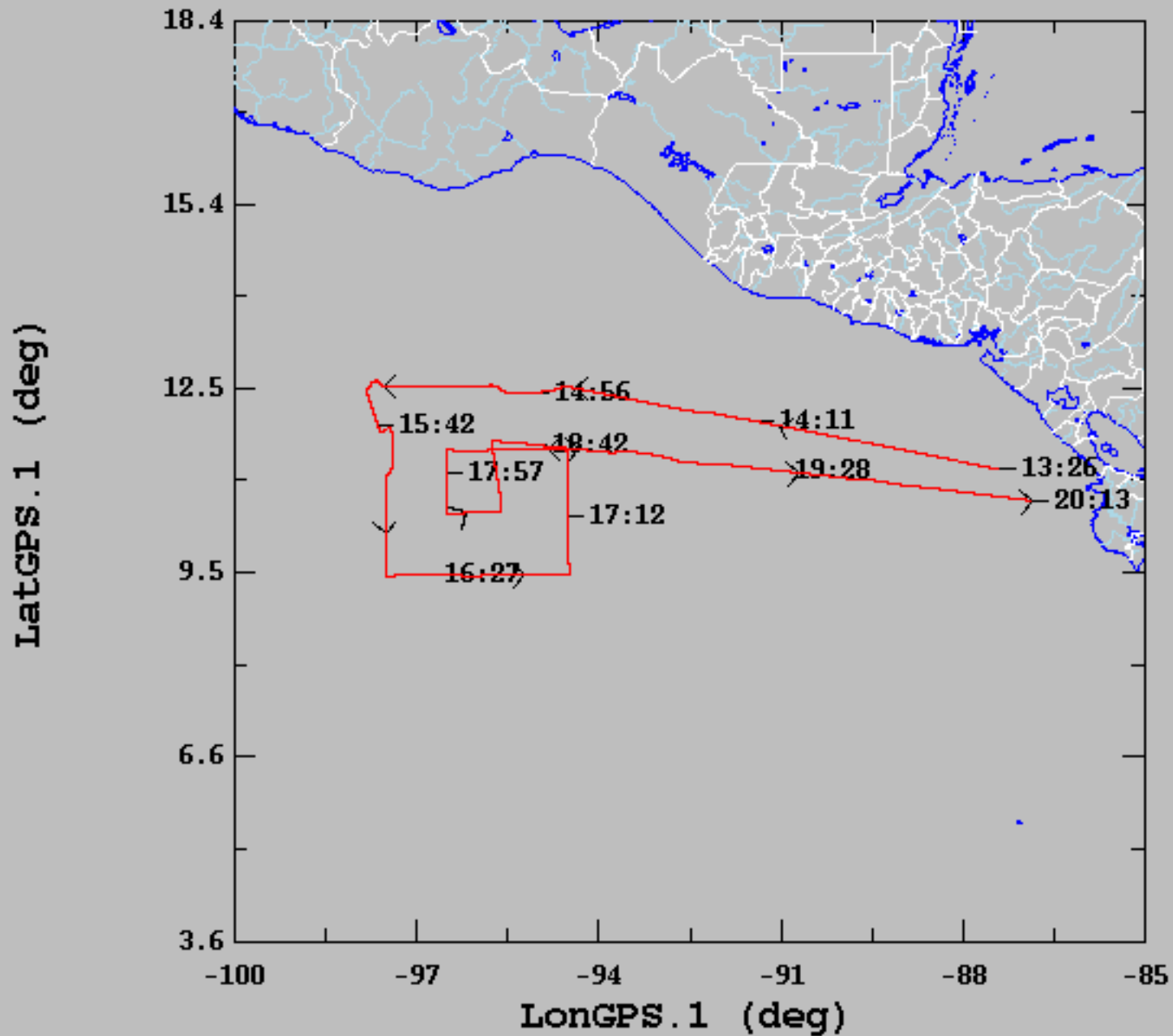
**NOTES:**

PDAlpha.2 ~~EMOP~~  
 PDBeta.2 failed during transit to and from storm cell.



# 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
— LongGPS.1 (deg), 1 s/sec	-93.94	3.00	-97.81	-86.84