

NOAA Aircraft Operations Center - NOAA 42 Flight Manifest

FLIGHT INFORMATION				CREW MANIFEST				MISSION INFORMATION				
FLT ID:	20180921H1	FLT #:	1	AC:	Kahn	Scientists:		Pressure		Dropsondes		
From:	KLAL	ETD:	1130Z	CP(s):	Rossi	Joe Cione (AOML)	Raytheon	A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:	1330Z	Nav(s):	Keith			Wx Station Takeoff		BTs		
Block Time		Flight Time		FE(s):	Urato	Alex Feist (Raytheon)		A/C Land		Good	Bad	Sent
In:	1308	In:	1301	FD(s):	Sloan			Wx Station Land		BTs		
Out:	152	Out:	1207	SEB:	Darby			Storm Number ID:		WXWXA TRAIN		
Total:	1.3	Total:	1.0	SSA:	Holmes	(ie: AL072012)						
Sponsoring Org:	AOML			AVAPS:	Mascaro	Visitors:		TCPOD/WSPOD Mission	WXWXA TRAIN			
Program:	PHX				Paul (Steven)	LTJG Gump (OMAO)		(ie: NOAA2 2418A SANDY)				
Purpose:	Coyote							OBSERVATIONS				
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	1 x Bad Coyote						
LARGE AIR-SEA TEMP GRADIENT					X							
HIGH SURFACE WINDS					X	Death Spiral						
LONG FETCH / DURATION OF SFC WND					X							
SEA SALT ACCRETION FORECAST					X							
SEA SALT ACCRETION OBSERVED					X							

Additional Remarks:

Cockpit Gmax:

Gmin:

*Highlighted items must be completed before departure.

APPENDIX 1 – P3 QC Checklist

Flight ID:	20180921H1
Flight Director(s):	Holmes

Pressure Comparison		
	T/O	Land
Aircraft	1013	—
Tower	1013	—

UWZ.d mean: 0.08 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	✓ 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	✓ IasADDU.1		✓ IAS.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:

PD Alpha.2 Inop
 PD Beta.1 Inop → substituted in PDBeta.2

N42RF ERROR SUMMARY
20180921H1

Flight ID: 20180921H1

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.2
Dynamic Attack Pressure Probe	PQALPHA.1
Dynamic Sideslip Pressure Probe	PQBETA.1

Flight Directory acdata/2018/MET/20180921H1

Local Met Data	Takeoff KLAL (1149Z)	Landing KLAL (1249Z)
Dynamic Corrections		Yes
AttackAngleIntercept		2.31252
AttackAngleSlope		6.06758
SlipAngleIntercept		0.4295
SlipAngleSlope		7.17033

Notes:

PDALPHA.2 INOP
PDBETA.1 was substituted with values PDBETA.2 for entire flight.

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

Coyote (UAS) never took flight. Crashed into Avon Park. Vehicle was recovered

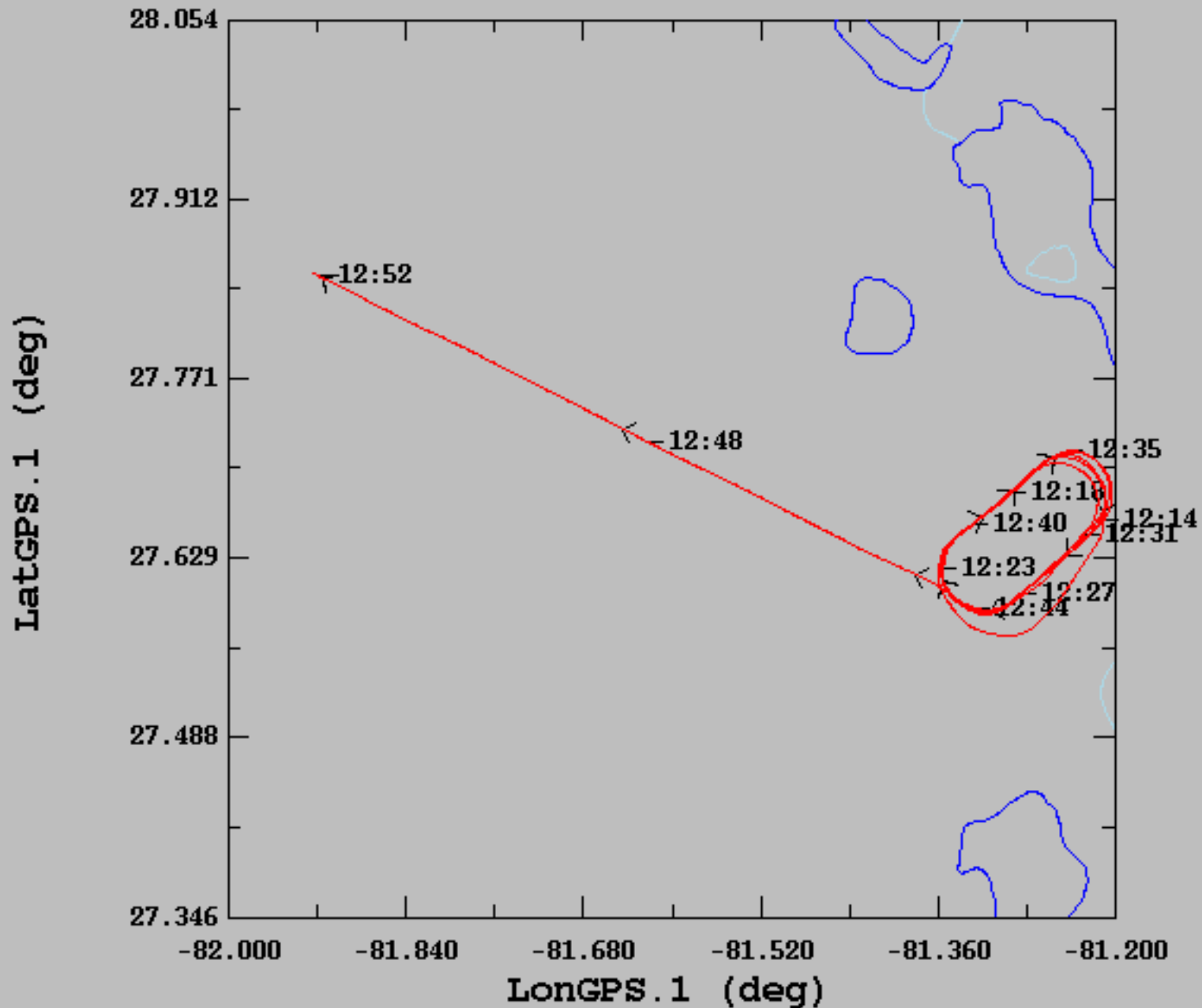
Expendable Type -----	# deployed -----	# good -----	# transmitted -----
Dropsondes	0	0	0
Test sondes	0	0	0
AXBTs	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	1	0	0

Flight Director: Holmes
Phone #: 863-500-3983

ACAT-4 Version = 7.2.1

20180921H1 Flight Track

2018-09-21, 12:14:32-12:52:50



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	27.66	0.06	27.57	27.85
— LonGPS.1 (deg), 1 s/sec	-81.36	0.17	-81.93	-81.20