

N42RF ERROR SUMMARY
20190902H1

Flight ID: 20190902H1

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/2019/MET/20190902H1

Local Met Data	Takeoff KMSY (1426Z)	Landing KLAL (1602Z)
Dynamic Corrections		Yes
AttackAngleIntercept		2.27641
AttackAngleSlope		6.01899
SlipAngleIntercept		0.232
SlipAngleSlope		7.17429
AttackAngleIntercept2		2.06387
AttackAngleSlope2	6.01177	
SlipAngleIntercept2		0.195
SlipAngleSlope2		6.67434

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.

PDALPHA.2 inop for entire flight
PDBETA.2 inop for entire flight
PQM.1 is not representative
TDM.1 is not representative for entire flight
TDM.3 is inop for entire flight
QC performed by Quinn Kalen

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 0 0 0

Flight Director: Sears
Phone #: 863-500-3962

ACAT-4 Version = 7.3

P-3 QC Checklist

Flight ID:	20190902H1
Flight Director(s)	Sears
UWZ.d mean:	0.32

Pressure Comparison		
	T/O	Land
Aircraft		
Tower		

	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		
					☒ 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		☐ LonGPS.4				
☒ Pressure	☒ PDALPHA.1	☒ PQALPHA.1	☒ PQM.1	☒ PSM.1	☒ PDLAPHaref	☒ 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				
☐ Misc. (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

QC Key	
Not checked	☐
Valid	☒
Errors (note)	☒

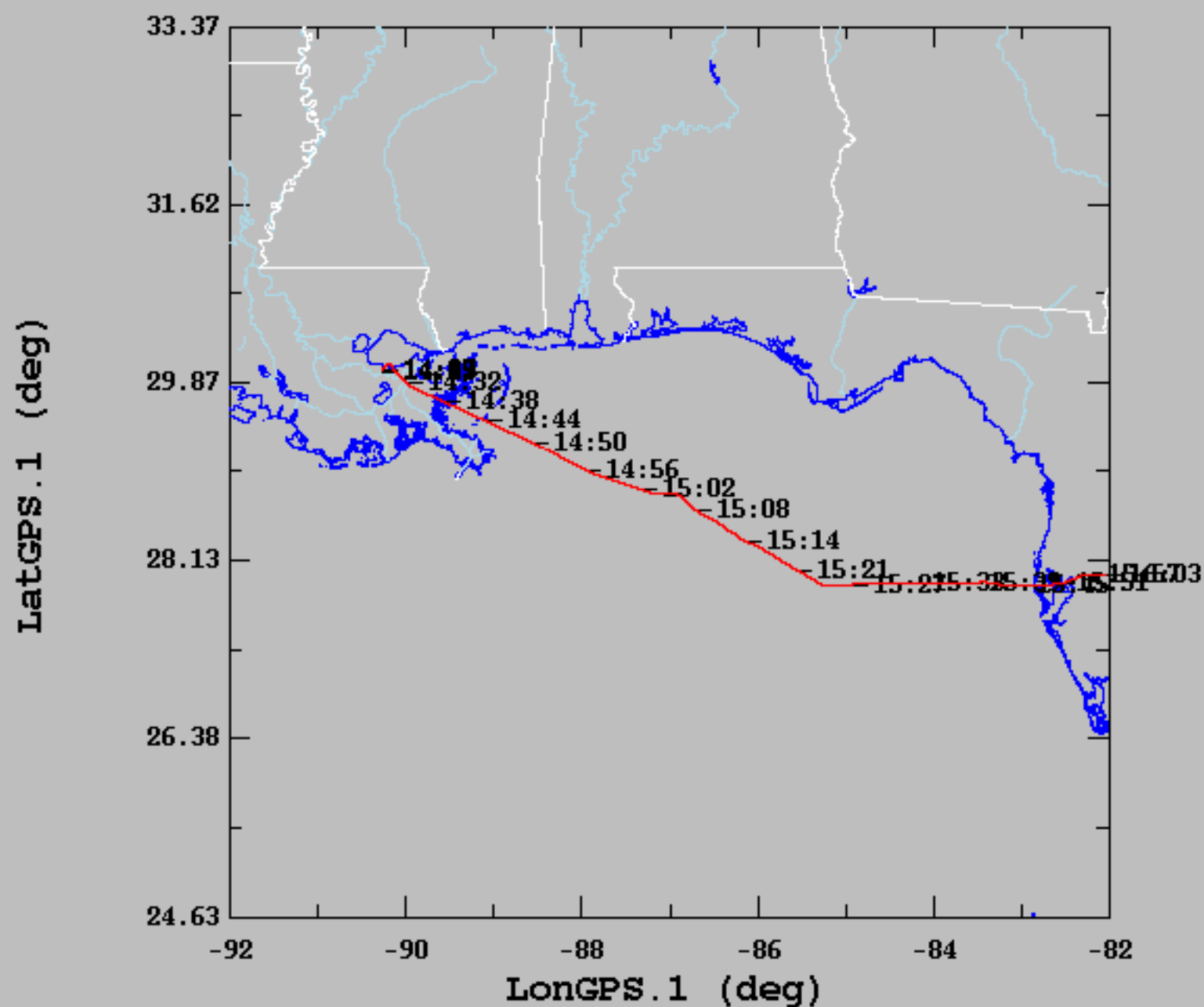
NOTES:

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U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N42RF Manifest

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20190902H1	FLT #:		AC:	Didier	Scientists:	Pressure		Dropsondes		
From:	KMSY			CP(s):	Mitchell	Sippel	A/C Takeoff		Good	Bad	Sent
To:	KLAL	ETA:				Dahl			0	0	0
Block Time		Flight Time		Nav(s):	Freeman	Jelenak	ASOS Takeoff		BTs		
In:	16:07	Land:	16:03			Chang					
Out:	14:18	T/O:	14:26	FE(s):	Lalonde		A/C Land		Good	Bad	Sent
					Heystek				0	0	0
Total:	1.80	Total:	1.60	FD(s):		Visitors:	ASOS Land				
Sponsoring Org:				SEB:	Lynch, T	Klippel	Storm Number ID:				
Program:							(ie: AL072012)				
Purpose:		REPO		SSA:	Naeher	Sanchez	TCPD/WSPD Mission				
							(ie: NOAA2 2418A SANDY)				
				AVAPS:	Greene		OBSERVATIONS				
AS REQUIRED BY ORM			Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH											
SCIENCE MISSION WITHIN BDY LAYER											
LACK OF PRECIPITATION											
RELATIVE HUMIDITY ≥ 80%											
LARGE AIR-SEA TEMP GRADIENT											
HIGH SURFACE WINDS											
LONG FETCH / DURATION OF SFC WND											
SEA SALT ACCRETION FORECAST											
SEA SALT ACCRETION OBSERVED											
*Highlighted items must be completed before departure.											
Remarks:											

2019-09-02, 14:07:30-16:03:58



	mean	sigma	min	max
LatGPS.1 (deg), 1 s/sec	28.82	0.85	27.88	30.05
LonGPS.1 (deg), 1 s/sec	-86.74	2.86	-90.27	-82.01