

N49RF ERROR SUMMARY
20190825N1

Flight ID: 20190825N1

Sensor or System	Number or Name
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Static Pressure Probe	PSM.2
Dynamic Pressure Probe	PQM.2
Total Temperature Probe	TTM.4
Dewpoint Temp. Probe	TDM.1
Vertical Accelerometer	AccZI.2
Altimeter	AltGPS.2
INE Selection	2
Differential Attack Pressure Probe	PDALPHA.2
Differential Sideslip Pressure Probe	PDBETA.2
Dynamic Attack Pressure Probe	PQALPHA.2
Dynamic Sideslip Pressure Probe	PQBETA.2

Flight Directory acdata/2019/MET/20190825N1

Local Met Data	Takeoff KLAL (1735Z)	Landing TISX (0130Z)
Dynamic Corrections		Yes
AttackAngleIntercept		3.97801
AttackAngleSlope		3.86172
SlipAngleIntercept		1.258
SlipAngleSlope		6.69941
AttackAngleIntercept2		5.04641
AttackAngleSlope2	5.41847	
SlipAngleIntercept2		0.905
SlipAngleSlope2		6.78464

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.

TDM.2 unrepresentative from take off to 20:22
Moisture quantities remain suspect
Wind speed and direction remain suspect
QC performed by Quinn Kalen

Expendable Type	# deployed	# good	# transmitted
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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: Henning / Flaherty
Phone #: 863-500-3982

ACAT-4 Version = 7.3

U.S. Dep't. of Commerce / OMAO / NOAA / Aircraft Operations Center

FLT ID: 20190825N1	From: KLAL	To: TISX
FLT #:	Blk In: 0135 z	Lnd Time: 0131 z
ETD: 1730z	Blk Out: 1724 z	T/O Time: 1735 z
ETE: 8+00	Total Blk: 8.2	Total Flt: 7.9
Sponsoring Org: NHC	Program: PHS	Purpose: TS DORIAN

AOC Flight Crew

Aircraft Commander: MANSOUR	SSA: DEFFO
Co-Pilot: Waddington Nardi	AVAPS: SMITH / UNDERWOOD
Navigator: /	Scientists:
Flight Eng: /	Scientists
Flt Director: Henning, Flaherty	Scientists
SEB: LYNCH /	Scientists:
Crew Chief: NEWNAM	Visitors: / /

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure				

AS REQUIRED BY ORM	YES / NO	REMARKS
VOLCANIC ASH		
SCIENCE MISSION WITHIN BOUNDARY LAYER		
LACK OF PRECIPITATION		
RELATIVE HUMIDITY AT OR ABOVE 80%		
LARGE AIR-SEA TEMPERATURE GRADIENT		
HIGH SURFACE WINDS		
LONG FETCH AND/OR DURATION OF SFC WIND		
SEA SALT ACCRETION FORECAST		
SEA SALT ACCRETION OBSERVED		

Dropsondes	27	Good: 26	Bad: 1	Sent: 26
AXBT		Good:	Bad:	Sent:

List other data sources in Remarks section

Remarks (Storm VDM Identifier, Mission ID, Fix Times)	Fix #	VDM Ob Num	Fix Time / SLP
Storm Number Identifier (VDM): (ie: AL072012)			
TCPOD/WSPOD Mission ID: (ie: NOAA2 2418A SANDY)			

Remarks:

G-IV QC Checklist

Flight ID:	20190825N1
Flight Director(s)	Henning / Flaherty

UWZ.d mean:	0.15
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Pressure Comparison		
	T/O	Land
Aircraft	1010.1	1015.5
Tower	1010.0	1014.3

	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"/> AccZref	
	<input checked="" type="checkbox"/> AccAXI.2	<input checked="" type="checkbox"/> AccAYI.2	<input checked="" type="checkbox"/> AccAZI.2				
	<input checked="" type="checkbox"/> AccAXI.3	<input checked="" type="checkbox"/> AccAYI.3	<input checked="" type="checkbox"/> AccAZI.3				
<input checked="" type="checkbox"/> Altitude	<input checked="" type="checkbox"/> AltGPS.1	<input checked="" type="checkbox"/> AltI.1	<input checked="" type="checkbox"/> AltPaADDU.1	<input checked="" type="checkbox"/> AltBCADDU.1		<input checked="" type="checkbox"/> ALTref	
	<input checked="" type="checkbox"/> AltGPS.2	<input checked="" type="checkbox"/> AltI.2	<input checked="" type="checkbox"/> AltPaADDU.2	<input checked="" type="checkbox"/> AltBCADDU.2		<input checked="" type="checkbox"/> ALTPA.d	
	<input checked="" type="checkbox"/> AltGPS.3	<input checked="" type="checkbox"/> AltI.3	<input checked="" type="checkbox"/> AltRA.1			<input checked="" type="checkbox"/> ALTGA.d	
<input checked="" type="checkbox"/> Ground Speed	<input checked="" type="checkbox"/> GsXI.1	<input checked="" type="checkbox"/> GsYI.1	<input checked="" type="checkbox"/> GsZI.1	<input checked="" type="checkbox"/> GsGPS.1		<input checked="" type="checkbox"/> GSXref	
	<input checked="" type="checkbox"/> GsXI.2	<input checked="" type="checkbox"/> GsYI.2	<input checked="" type="checkbox"/> GsZI.2	<input checked="" type="checkbox"/> GsGPS.2		<input checked="" type="checkbox"/> GSYref	
	<input checked="" type="checkbox"/> GsXI.3	<input checked="" type="checkbox"/> GsYI.3	<input checked="" type="checkbox"/> GsZI.3	<input type="checkbox"/> GsGPS.3		<input checked="" type="checkbox"/> GSZref	
	<input checked="" type="checkbox"/> GsXGPS.1	<input checked="" type="checkbox"/> GsYGPS.1	<input checked="" type="checkbox"/> GsZGPS.1				
	<input checked="" type="checkbox"/> GsXGPS.2	<input checked="" type="checkbox"/> GsYGPS.2	<input checked="" type="checkbox"/> GsZGPS.2				
	<input type="checkbox"/> GsXGPS.3	<input type="checkbox"/> GsYGPS.3	<input type="checkbox"/> GsZGPS.3				
<input checked="" type="checkbox"/> Lat / Lon	<input checked="" type="checkbox"/> LatGPS.1	<input checked="" type="checkbox"/> LatI.1	<input checked="" type="checkbox"/> LonGPS.1	<input checked="" type="checkbox"/> LonI.1		<input checked="" type="checkbox"/> LATref	
	<input checked="" type="checkbox"/> LatGPS.2	<input checked="" type="checkbox"/> LatI.2	<input checked="" type="checkbox"/> LonGPS.2	<input checked="" type="checkbox"/> LonI.2		<input checked="" type="checkbox"/> LONref	
	<input checked="" type="checkbox"/> LatGPS.3		<input checked="" type="checkbox"/> LonGPS.3				
<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"/> PDLAPHaref	<input checked="" type="checkbox"/> PQMref
	<input checked="" type="checkbox"/> PDALPHA.2	<input checked="" type="checkbox"/> PQALPHA.2	<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"/> PQBETA.1				<input checked="" type="checkbox"/> PQALPHaref	<input checked="" type="checkbox"/> PSMref
	<input checked="" type="checkbox"/> PDBETA.2	<input checked="" type="checkbox"/> PQBETA.2				<input checked="" type="checkbox"/> PQBETAref	<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"/> IAS.d	<input checked="" type="checkbox"/> TAS.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"/> TTM.4	<input checked="" type="checkbox"/> TDM.1			<input checked="" type="checkbox"/> TD.c	<input checked="" type="checkbox"/> TTMref
	<input type="checkbox"/> TTM.2		<input checked="" type="checkbox"/> TDM.2			<input checked="" type="checkbox"/> TDMref	<input checked="" type="checkbox"/> TA.d
	<input checked="" type="checkbox"/> TTM.3						
<input checked="" type="checkbox"/> Misc. (Must check)						<input checked="" type="checkbox"/> UWZ.d	<input checked="" type="checkbox"/> WS.d
						<input checked="" type="checkbox"/> DPJ_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

QC Key	
Not checked	<input type="checkbox"/>
Valid	<input checked="" type="checkbox"/>
Errors (note)	<input checked="" type="checkbox"/>

NOTES:
<p>TDM.2 unrepresentative from take off to 20:22</p> <p>Moisture quantities remain suspect</p> <p>Wind speed and direction remain suspect</p> <p>QC performed by Quinn Kalen</p>

AOC GPS Dropwindsonde Log (updated Mar 2019)

26/27

Flight ID: 20190825_{N1}

ASPEN Operator/Flight Director(s): FLAHERTY / HENNING

Mission ID: 01054 DORIAN

Storm Name/Track: DORIAN SURV.

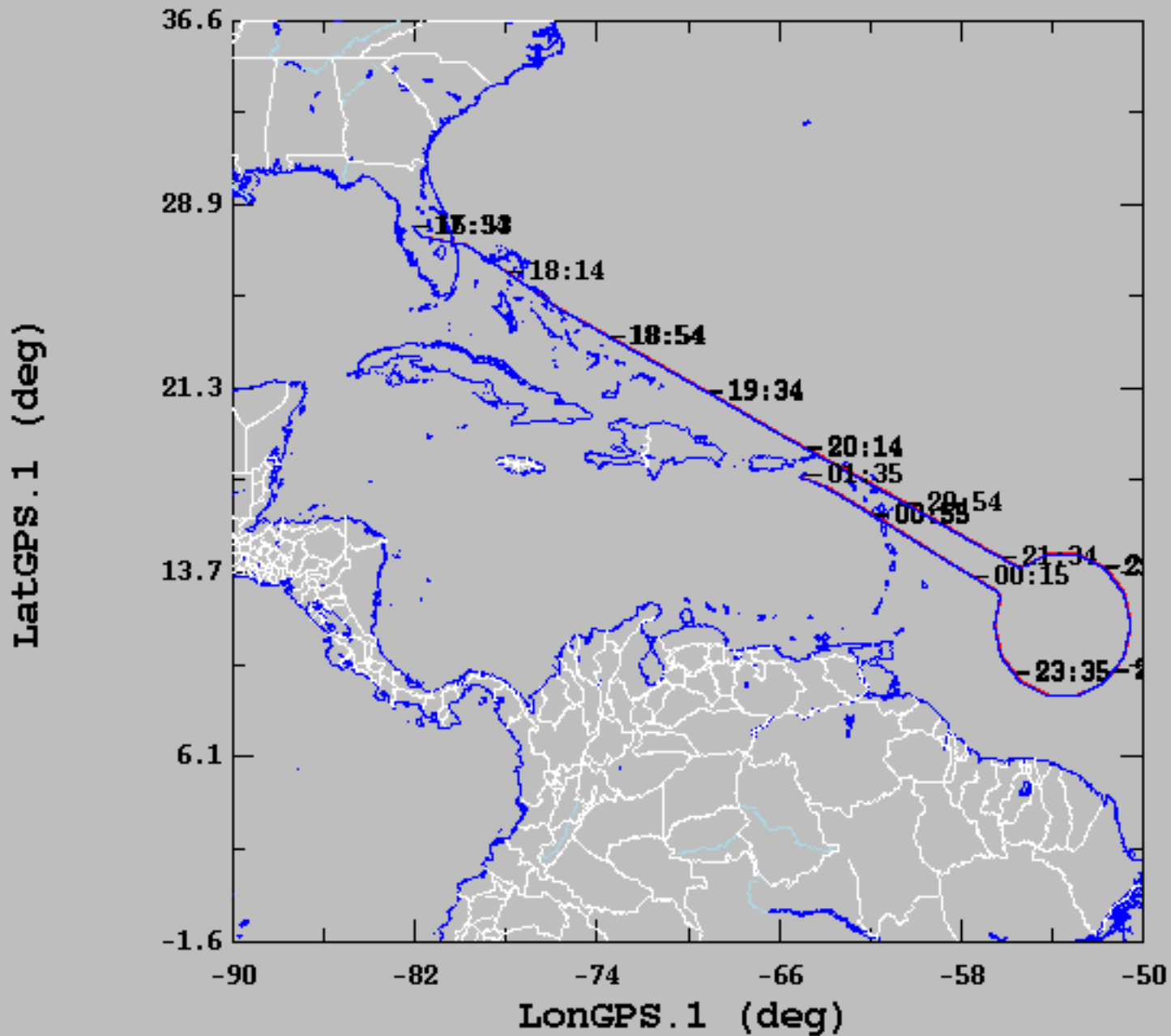
PG 1 of 1

Sonde #	Ob #	Launch Time HHMMSS (Z)	Sonde ID (min last 5)	Ch # used	Lat (°N)	Lon (°E)	Prominent Wx Cond.	SFC Prs (mb)	Comments / Issues / QC / ASPEN Edits	KWBC #	Sonde Issues?
1	1	1837	11034	1	24.5	-75.4	Foggy	10140		1907	N
2	2	1838	30174	2	23.2	-73.0	"	1015.6		1938	N
3	3	1901	40299	3	21.9	-70.5	"	1015.6		2013	N
4	4	1944	50254	4	20.5	-68.0	"	1015.6		2036	N
5	5	2002	30789	1	19.5	-66.0	"	1015.0		2041	N
6	6	2019	30295	2	18.5	-64.2	"	1015.2		2048	N
7	7	2042	30297	3	17.2	-61.7	"	1014.7		2106	N
8	8	2107	50256	4	15.8	-59.1	"	1013.8		2129	N
9	9	2119	40321	1	15.2	-57.9	SCALD	1013.9		2145	N
10	10	2130	40223	2	14.5	-56.6	"	1012.6		2206	N
11	11	2142	40290	3	13.9	-55.3	RNBW	1012.9		2208	N
12	12	2153	40458	4	14.4	-54.1	RNBW	1013.6		2214	N
13	13	2204	40462	1	14.4	-52.8	"	1013.8		2226	N
14	14	2215	40294	2	13.8	-51.6	"	1013.4		2234	N
15	15	2226	40461	3	12.7	-50.8	DARK	1014.3		2242	N
16	16	2237	30839	4	11.4	-50.5		1014.5		2259	N
17	17	2249	30890	1	10.2	-50.8		1013.0		2313	N
18	18	2259	40459	2	9.1	-51.6		1012.5		2319	N
19	19	2310	30838	3	8.6	-52.8		1013.3		2337	N
20	20	2321	40457	4	8.6	-54.1		1012.9		2342	N
21	21	2331	10231	1	9.1	-51.3		1013.4		2351	N
22	.			2					BAD SONDE		Y
23	22	2343	30958	3	10.3	-50.2		1012.7		0005	N
24	23	2353	40322	4	11.5	-56.4		1012.8		0013	N
25	24	0003	40937	1	12.7	-56.3		1012.3		0026	N
26	25	0015	31134	2	13.5	-57.4		1013.5		0039	N
27	26	0026	10232	3	14.2	-58.6		1014.2	LAST SONDE	0049	N
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38											

COMMENTS: ASPEN Operator will ensure this form is delivered to the AOC Flight Director to be archived

Obs Xmitted Obs Missed # of sondes launched # of bad sondes

2019-08-25, 16:53:55-25:35:45



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	17.90	5.85	8.58	27.99
— LongGPS.1 (deg), 1 s/sec	-64.10	9.88	-82.03	-50.51
— LatI.1 (deg), 1 s/sec	17.92	5.84	8.62	28.00
— LonI.1 (deg), 1 s/sec	-64.07	9.88	-82.04	-50.48