

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

FLT ID: 20190826N1	From: TISX	To: TISX
FLT #:	Blk In: 0014 Z	Lnd Time: 0011 Z
ETD: 1730 z	Blk Out: 1722 Z	T/O Time: 1730 z
ETE: 7+00	Total Blk: 6.9	Total Flt: 6.7
Sponsoring Org: NHC	Program: PHS	Purpose: TS DORIAN SS

AOC Flight Crew

Aircraft Commander: MANSOUR	SSA: DEFE0
Co-Pilot: WADDAUGHTON NARDI	AVAPS: SMITH, UNDERWOOD
Navigator: /	Scientists:
Flight Eng: /	Scientists:
Flt Director: HENNING FLAHERTY	Scientists:
SEB: CLYNCH /	Scientists:
Crew Chief:	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	33	Good: 30	Bad: 3	Sent: 30
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: NOAA9 0205A DORIAN (ie: NOAA2 2418A SANDY)			

Remarks:

G-IV QC Checklist

Flight ID:	20190826N1
Flight Director(s)	Henning / Flaherty
UWZ.d mean:	0.11

Pressure Comparison		
	T/O	Land
Aircraft	1015.7	1014.4
Tower	1015.0	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"/> AltBCADDU.2	<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"/> 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 checked="" 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>PDBETA.1 trending 2 mb low</p> <p>PQBETA.1 trending 4 mb low</p> <p>TDM.2 unrepresentative for duration of flight</p> <p>Moisture quantities remain suspect</p> <p>Wind data remain suspect</p> <p>QC performed by Quinn Kalen</p>

AOC GPS Dropwindsonde Log (updated Mar 2019)

30/33

Flight ID: 20190826 N1

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

Mission ID: 0205A DORIAN

Storm Name/Track: TS DORIAN SURV

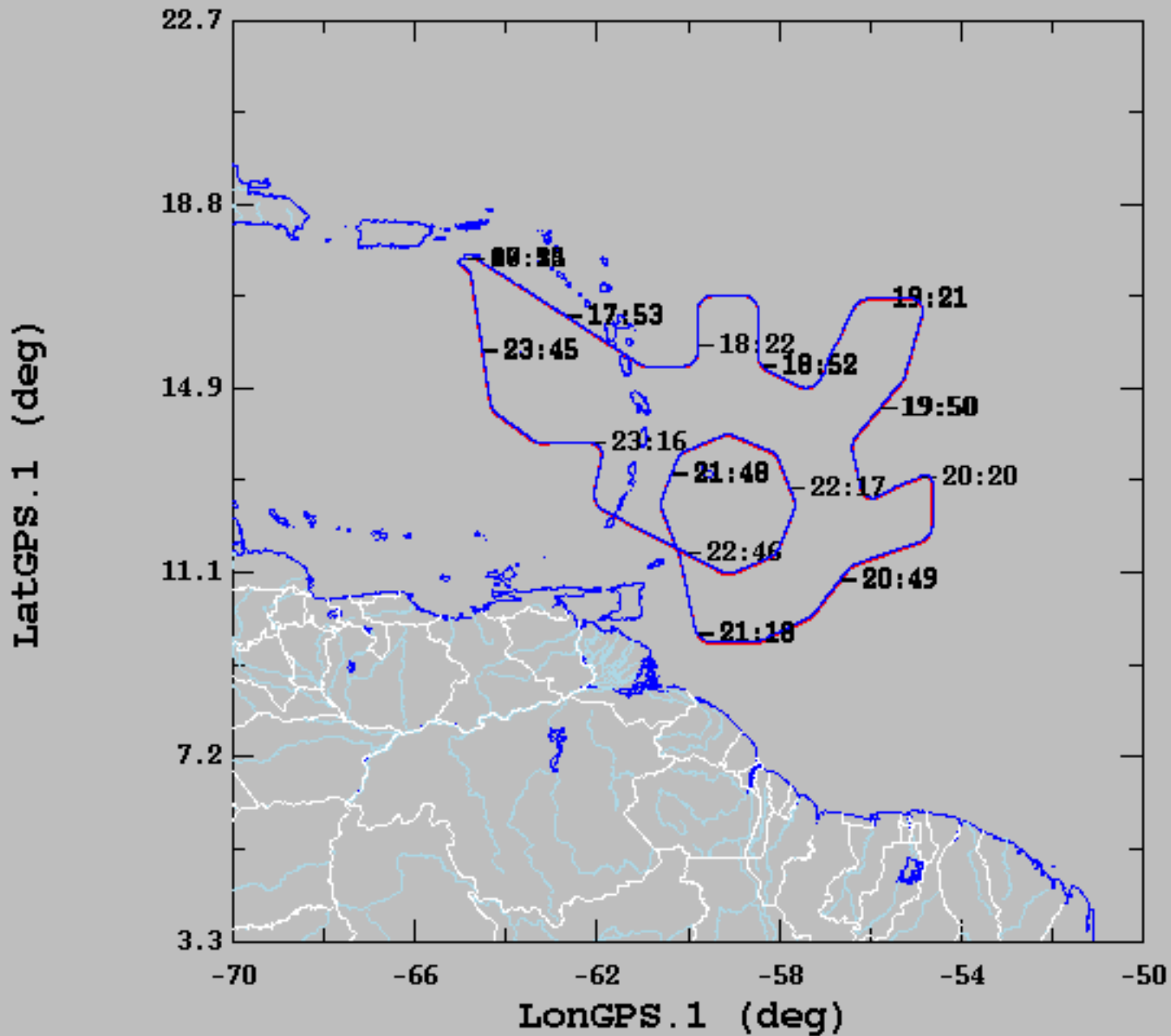
PG 1 of 1

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	✓	1810	10225	1			FEW BLW		FAST FALL		Y
2	1	1812	10204	2	15.4	-60.8	"	1013.6	BACK UP	1832	N
3	2	1820	40342	3	15.5	-59.8	SCT BLW	1013.5		1859	N
4	3	1831	40384	4	16.8	-59.6	"	1013.4		1905	N
5	✓	1840		1			ONC BLW		FAST FALL		Y
6	4	1842	30732	2	16.6	-58.4	"		BACK UP	1924	N
7	5	1852	40436	3	15.4	-58.3	BKN BLW	1012.1		1926	N
8	6	1902	30817	4	15.0	-57.2	SCT BLW	1013.6		1935	N
9	7	1910	10227	1	15.8	-56.7	FEW BLW	1013.8		1940	N
10	8	1919	40484	2	16.8	-56.1	"	1014.2		1946	N
11	9	1931	40320	3	16.7	-54.8	BKN BLW	1014.6		1955	N
12	10	1944	30731	4	15.1	-55.2	ONC BLW	1014.9		2025	N
13	11	1959	40340	1	13.7	-56.3	"	1012.6		2027	N
14	12	2009	40462	2	12.6	-56.0	"	1012.1		2029	N
15	13	2021	31367	3	13.0	-54.7	"	1013.4		2047	N
16	14	2031	30863	4	11.8	-54.6	BKN BLW	1013.5		2127	N
17	15	2046	40338	1	11.1	-56.4	"	1011.8		2132	N
18	16	2057	40136	2	10.1	-57.2	"	1011.6		2140	N
19	17	2107	30830	3	9.6	-58.4	ONC BLW	1010.5		2136	N
20	18	2117	40470	4	9.6	-59.7	"	1010.3		2204	N
21	19	2132	10221	1	11.4	-60.1	"	1010.1	OB 22	2208	N
22	20	2142	10230	2	12.5	-50.6	"	1010.8	OB 19	2216	N
23	21	2152	10234	3	13.5	-60.1	"	1010.9	OB 20	2218	N
24	22	2201	40460	4	13.6	-59.0	"	1010.4	OB 22	2221	N
25	23	2211	40481	1	13.5	-58.0	"	1011.0	BAD TO DOWN LOW (RMVD)	2232	N
26	24	2220	30832	2	12.5	-57.6	"	1011.2		2302	N
27	25	2229	30531	3	11.4	-58.0	"	1011.5		2303	N
28	26	2238	40461	4	11.0	-59.0	DARK	1010.4		2305	N
29	27	2304	40452	1	12.6	-62.0		1011.4		2333	N
30	✓	2316		2					NO LAUNCH DETECT		Y
31	28	2315	40478	3	13.8	-62.1		1011.8	BACK UP	2346	N
32	29	2325	30552	4	13.8	-63.3		1012.8		2351	N
33	30	2335	40457	1	14.5	-64.2		1012.9	LAST RPT	2354	N
34											
35											
36											
37											
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

2019-08-26, 16:55:03-24:14:41



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	14.29	2.44	9.58	17.70
— LongGPS.1 (deg), 1 s/sec	-59.83	3.28	-65.04	-54.60
— LatI.1 (deg), 1 s/sec	14.26	2.45	9.54	17.70
— LonI.1 (deg), 1 s/sec	-59.84	3.28	-65.05	-54.62