



AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Kalen / Henning  
Phone #: 863-500-3962

ACAT-4 Version = 7.3

**U.S. Department of Commerce / NOAA / OMAO / Aircraft Operations Center - N49RF Manifest**

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20210814N1	FLT #:		AC:	Waddington	Scientists:	Pressure		Dropsondes		
From:	TNCA	ETD:		CP(s):	De Triquet		A/C Takeoff		Good	Bad	Sent
To:	TNCA	ETA:		NAV:					<b>33</b>	<b>3</b>	<b>33</b>
Block Time		Flight Time		FE(s):			ASOS Takeoff		BTs		
In:	<b>0021Z</b>	Land:	<b>0018Z</b>	FD(s):	Henning		A/C Land		Good	Bad	Sent
Out:	<b>1625Z</b>	T/O:	<b>1634Z</b>	SSA:	Miller	Visitors:	ASOS Land				
Total:	<b>7.9</b>	Total:	<b>7.7</b>	AVAPS:	Patel		Storm Number ID:				
Sponsoring Org:	HRD / ONR			SEB:			(ie: AL072012)				
Program:				MX:			TCPOD/WSPOD Mission		<b>WA07A GRACE</b>		
Purpose:	Hurricane Research						(ie: NOAA2 2418A SANDY)				
AS REQUIRED BY ORM				Y	N	REMARKS	Fix Number	Obs Number	Fix Time	SLP	
VOLCANIC ASH					x		<b>1</b>				
SCIENCE MISSION WITHIN BDRY LAYER					x						
LACK OF PRECIPITATION					x		<b>2</b>				
RELATIVE HUMIDITY ≥ 80%					x						
LARGE AIR-SEA TEMP GRADIENT					x		<b>3</b>				
HIGH SURFACE WINDS					x						
LONG FETCH / DURATION OF SFC WND					x		<b>4</b>				
SEA SALT ACCRETION FORECAST					x						
SEA SALT ACCRETION OBSERVED					x		<b>Pennies:</b>				

\*Highlighted items must be completed before departure.

Remarks:


## G-IV QC Checklist

<b>Flight ID:</b>	<b>20210814N1</b>
<b>Flight Director(s)</b>	<b>Henning / Kalen</b>

<b>UWZ.d mean:</b>	<b>-0.09</b>
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Pressure Comparison		
	T/O	Land
<b>Aircraft</b>	<b>1012.7</b>	<b>1011.4</b>
<b>Tower</b>	<b>1011.8</b>	<b>1009.8</b>

	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><b>.1 and .2 GPS parameters data "stair steps"</b></p> <p><b>PDBETA.1 &amp; PDBETA.2 unrepresentative due to spare radome</b></p> <p><b>PQBETA.1 &amp; PQBETA.2 unrepresentative due to spare radome</b></p> <p><b>All flight level wind speed and direction suspected errors due to spare radome</b></p> <p><b>TTM.3 &amp; TTM.4 oscillates</b></p> <p><b>TDM.1 trending ~5 deg C warmer</b></p>



Flight ID: 20210814N ASPEN Operator/Flight Director(s): KALEN/MENNING

Mission ID: WA07A Storm Name/Track: GRACE PG     of    

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	171945	60615	1	15.9	66.7	BKN	1013.6	<u>SFC WIND</u> 095/15	1740	✓✓
2	2	173034	30032	2	15.9	65.3	SCT	1014.7	090/24	1753	✓✓
3	3	174038	31037	3	15.9	64.0	SCT	1013.5	075/17	1810	✓✓
4	4	174937	30995	4	16.1	63.0	SCT	1014.4	080/14	1821	✓✓
5	5	180035	60609	1	17.5	62.9	SCT	1013.3	080/15	1822	✓✓
6	6	181227	50535	2	19.0	62.9	SCT	1015.3	085/21	1840	✓✓
7	7	182449	50617	3	20.5	62.7	SCT	1016.1	085/20	1853	✓✓
8	8	183757	30181	4	20.4	61.0	BKN	1016.5	050/25	1858	✓✓
9	9	185032	40951	1	19.0	60.9	BKN	1014.5	055/20	1912	✓✓
10	10	190340	31028	2	17.5	60.9	CDO	1012.7	055/21	1928	✓✓
11	11	192201	70002	3	15.9	62.2	CDO	1012.3	150/5	1951	✓✓
12	12	193324	70007	4	14.6	62.1	CDO	1012.7	005/15	1955	✓✓
13	13	195020	30665	1	13.0	60.9	CDO	1012.9	160/16	2010	✓✓
14				2			CDO		PTH MISSING		
15	14	200442	40007	3	13.4	59.4	CDO	1013.9	260/19	2026	✓✓
16	15	201421	30577	4	14.5	59.4	UCAST	1013.7	160/10	2033	✓✓
17	16	202654	60582	1	16.0	59.4	UCAST	1013.1	155/5	2049	✓✓
18	17	203916	31015	2	17.5	59.4	UCAST	1013.2	130/36	2100	✓✓
19	18	205116	31205	3	19.0	59.4	UCAST	1013.9	100/21	2117	✓✓
20	19	210204	60586	4	20.3	59.3	BKN	1015.6	095/27	2122	✓✓
21	20	211325	60636	1	19.4	58.2	SCT	1015.2	105/22	2135	✓✓
22	21	212511	31801	2	18.4	57.2	UCST	1014.9	125/13	2148	✓✓
23				3			UCST		FAST FALL		
24	22	213854	31120	4	17.2	56.0	BKN	1014.4	100/17	2200	✓✓
25	23	214844	30673	1	16.4	55.2	UCST	1014.9	105/13	2211	✓✓
26	24	215908	40790	2	16.3	56.5	UCST	1015.7	140/10	2223	✓✓
27				3			UCST		PTH MISSING		
28	25	221200	40495	4	16.3	58.1	UCST	1014.2	115/21	2234	✓✓
29	26	221743	30106	1	16.3	58.8	UCST	1014.7	115/23	2239	✓✓
30	27	222334	60587	2	16.3	59.5	UCST	1013.9	135/17	2247	✓✓
31	28	222814	31207	3	16.3	60.1	CDO	1013.4	170/14 NO HUMIDITY below 250mb	2258	✓✓
32	29	223140	41152	4	16.4	60.5	CDO	1012.8	140/12	2258	✓✓
33	30	225457	31206	1	17.0	62.6	CDO	1013.2	030/20 NO HUMIDITY BLW 300	2317	✓✓
34	31	230302	60617	2	16.6	63.6	CDO	1013.4	035/14	2327 <sup>mb</sup>	✓✓
35	32	231230	30666	3	16.1	64.7	—	1014.0	050/12	2335	✓
36	33	232414	30206	4	15.7	66.1	—	1013.8	075/14 LAST	2346	✓
37									REPORT		
38											

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

COMMENTS:

Obs Xmitted

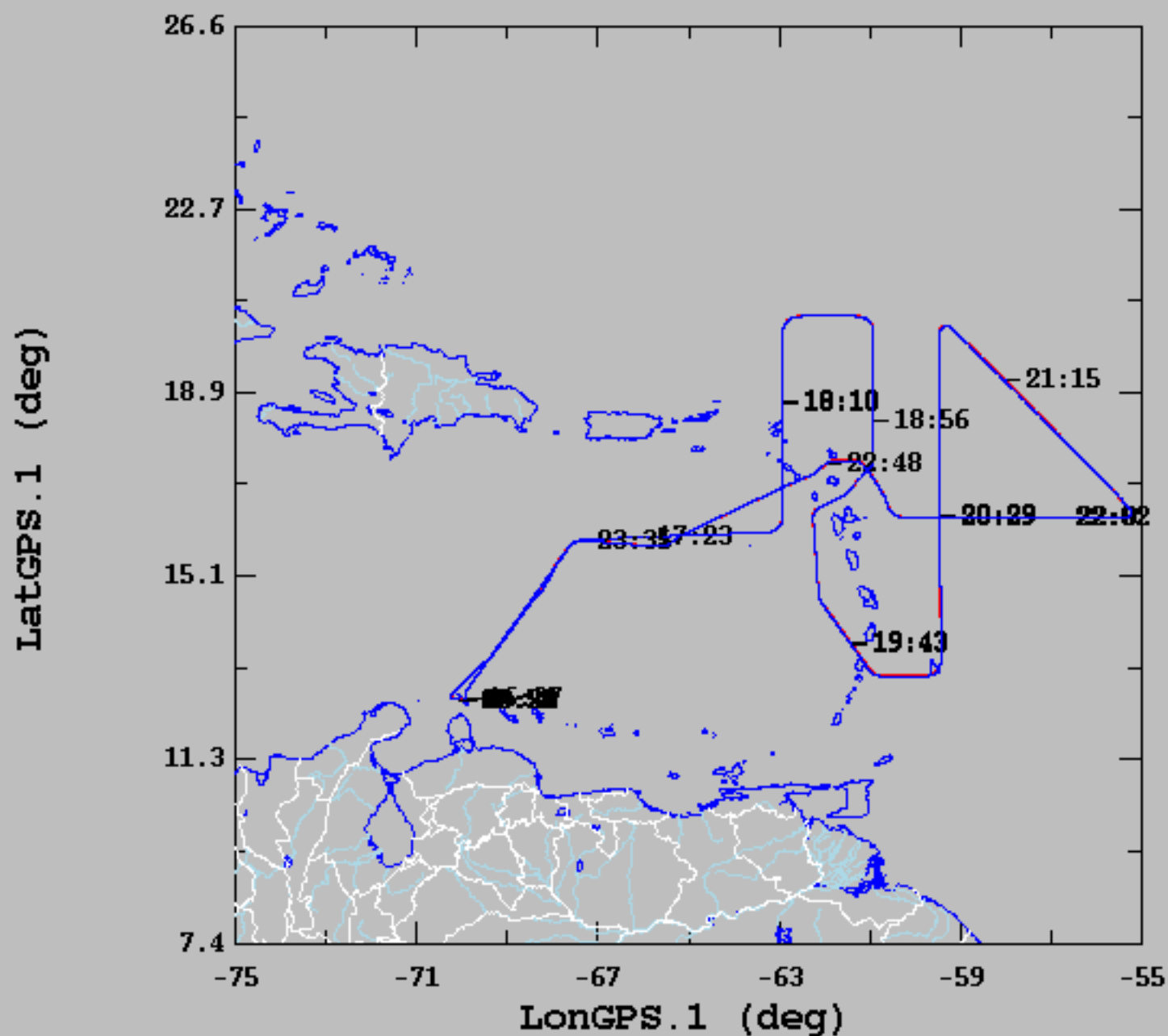
Obs Missed

# of sondes launched

# of bad sondes



2021-08-14, 15:50:58-24:21:43



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	16.15	2.22	12.48	20.50
— LongGPS.1 (deg), 1 s/sec	-62.88	4.25	-70.21	-55.22
— LatI.1 (deg), 1 s/sec	16.16	2.22	12.48	20.51
— LonI.1 (deg), 1 s/sec	-62.88	4.24	-70.18	-55.23