

Expendable Type	# deployed	# good	# transmitted
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Dropsondes	29	27	27
Test sondes	0	0	0
AXBTs	0	0	0
AXCPs	0	0	0
AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Henning/Timmers
 Phone #: 8635003982

ACAT-4 Version = 7.4

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION					
FLT ID:	20220926N1	FLT #:		AC:	NARDI	Scientists:	Pressure		Dropsondes			
From:	KLAL	ETD:		CP(s):	de TRIQUET		A/C Takeoff		Good	Bad	Sent	
To:	KLAL	ETA:		NAV:			ASOS Takeoff		27	2	27	
Block Time		Flight Time		FE(s):			A/C Land		BTs			
In:	1236	Land:	1230	FD(s):	HENNING TIMMERS		ASOS Land		Good	Bad	Sent	
Out:	0522	T/O:	0531	SSA:	LYNCH	Visitors:	Storm Number ID: (ie: AL072012)		NOAA9 1309 IAN			
Total:	7.2	Total:	7.0	AVAPS:	HARTBERGER	TCPOD/WSPOD Mission (ie: NOAA2 2418A SANDY)						
Sponsoring Org:	NHC			SEB:	PAUL	OBSERVATIONS						
Program:	PHS			MX:		Fix Number	Obs Number	Fix Time	SLP			
Purpose:	Syn Surv TS IAN			REMARKS			1					
AS REQUIRED BY ORM				Y	N	VOLCANIC ASH						
SCIENCE MISSION WITHIN BDRY LAYER					x	LACK OF PRECIPITATION			2			
RELATIVE HUMIDITY ≥ 80%						LARGE AIR-SEA TEMP GRADIENT			3			
HIGH SURFACE WINDS						LONG FETCH / DURATION OF SFC WND			4			
SEA SALT ACCRETION FORECAST						SEA SALT ACCRETION OBSERVED			Pennies:			

*Highlighted items must be completed before departure.

Remarks:

G-IV QC Checklist

Flight ID:	20220926N1
Flight Director(s)	Henning/Timmers
UWZ.d mean:	0.19

Pressure Comparison		
	T/O	Land
Aircraft	1007.0	1006.7
Tower	1007.5	1007.9

	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 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>Frequent, short lived gaps in many of the data fields.</p> <p>PQALPHA.2 and PQBETA.1 deviate during aircraft descent.</p> <p>TDM.1 and TDM.2 are unrepresentative. Consider all flight level humidity to be suspect.</p> <p>PDALPHA.2 and PDBETA.2 were both made references.</p>

AOC GPS Dropwindsonde Log (updated Mar 2019)

29 sondes
27/5

Flight ID: 20220926N1

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

Mission ID: 1309A IAN

Storm Name/Track: Ian

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	0608 05	30596	1	23.9	-82.0	/	1009.1	080/06	0628	✓✓
	2	0635 58	11561	2	20.8	-81.8	/	1006.3	095/31	0654	✓✓
	3	0645 57	30083	3	20.6	-80.5	/	1006.3	085/22	0704	✓✓
FRD	4	0700 22	21074	4	19.2	-79.5	/	1005.0	110/28	0749	✓✓
	5	0712 52	40367	1	17.8	-79.1	/	1006.5	///	0733	✓✓
	6	0723 01	21034	2	16.5	-79.0	/	1006.4	155/28	0743	✓✓
	7	0739 23	31055	3	15.3	-80.7	/	1004.9	215/17	0759	✓✓
BAD	8	0749		4					NO LAUNCH DETECT		
FRD	9	0751 06	11563	1	14.9	-82.0	/	1004.7	190/09	0810	✓✓
	10	0808 44	30024	2	15.9	-84.0	/	1004.9	290/19	0833	✓✓
	11	0818 47	50330	3	16.5	-85.2	/	1005.0	260/18	0844	✓✓
	12	0828 40	30023	4	17.6	-85.3	/	1005.7	325/11	0847	✓✓
FRD	13	0850 48	40422	1	18.5	-83.0	/	1000.9	355/33	0912	✓✓
	14	0901 47	21057	2	18.6	-81.7	/	995.9	110/44	0920	✓✓
	15	0911 01	11566	3	17.7	-81.0	/	1002.2	175/28	0930	✓✓
	16	0920 18	30082	4	16.6	-81.5	/	1004.4	225/17	0941	✓✓
	17	0929 15	40304	1	16.2	-82.5	/	1003.3	245/14	0949	✓✓
FRD	18	0938 01	11507	2	16.7	-83.6	/	1004.0	275/17	0956	✓✓
	19	0947 18	10392	3	17.7	-84.0	/	1003.4	340/20	1008	✓✓
	20	1003 20	30082	4	19.6	-84.1	/	1004.4	020/34	1043	✓✓
	21	1013 17	30021	1	19.8	-85.4	/	1006.6	010/15	1047	✓✓
	22	1026 58	31330	2	21.5	-85.6	/	1007.6	040/13	1050	✓✓
FRD	23	1043 30	30043	3	22.3	-87.5	/	1008.0	065/08	1105	✓✓
	24	1058 54	20440	4	22.5	-89.4	/	1009.2	050/03	1118	✓✓
BAD	25	1111		1					NO PTH		
	26	1112 30	30019	2	24.0	-89.2	/	1009.3	055/10	1131	✓✓
	27	1125 18	11564	3	24.0	-87.5	SCT	1009.0	070/12	1144	✓✓
	28	1139 45	30022	4	24.1	-85.6	SCT	1009.5	060/17	1202	✓✓
FRD	29	1151 00	21205	1	25.5	-85.4	SCT	1010.4	045/13	1210	✓
	30										
	31										
	32										
	33										
	34										
	35										
	36										
	37										
	38										

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

2 Obs
Xmitted

Obs
Missed

29 # of sondes
launched

2 # of bad
sondes

AVAPS Drop Log

Project: IAN

Mission: _____

Flight ID: 20220926M1

Take Off: _____

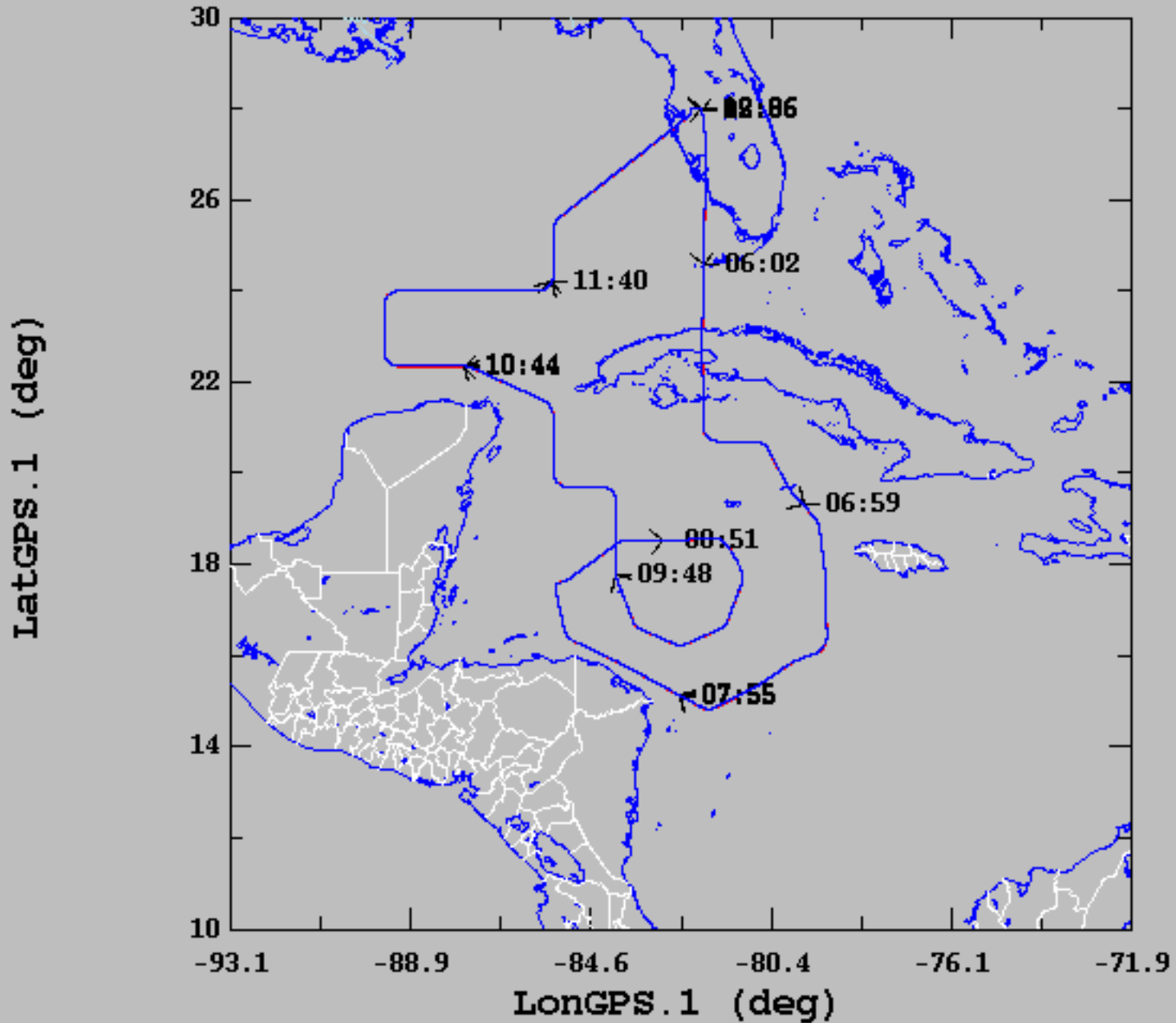
Landing: _____

Flt Dir: Henning

Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	211 930 596	1	Ø	0608	JFH	NWS		
2	212 011 561	2		0635				
3	211 930 083	3		0645				
4	211 921 074	4		0700				
5	210 240 367	1		0712				
6	211 921 034	2		0723				
7	210 731 055	3		0739				
8	212 011 210	4		0749			No launch data	X
9	212 011 563	1		0751				
10	212 030 024	2		0808				
11	211 850 330	3		0818				
12	212 030 023	4		0828				
13	210 540 422	1		0850				
14	211 921 057	2		0901				
9:13	212 011 566	3		0911				
9:19	210 430 082	4	Ø	0920	CF			16
9:28	210 240 304	1	0	0929				17
	212 011 507	2	-0.5	0938				18
0946	211 910 392	3	-0.4	0947				19
10:04	211 930 082	4	0	1003				20
1013	212 030 021	1	-0.4	1013				21
1027	211 831 330	2	0	1026				22
1042	211 330 043	3	0	1043				
	212 720 440	4	0	1058			NOISY	
1111	211 321 214	1	-0.7	1111			no PTH	24 X
	212 030 019	2		1112				24b
	212 011 564	3	0	1125				
1140	212 030 022	4	0	1139				
1150	211 321 205	1	0	1151				
	212 201 565	2	0					
31								

09/26/2022, 05:06:36-12:36:51



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	21.24	4.12	14.83	27.99
— LongGPS.1 (deg), 1 s/sec	-83.38	2.59	-89.50	-79.03
— LatI.1 (deg), 1 s/sec	21.24	4.12	14.82	27.99
— LonI.1 (deg), 1 s/sec	-83.38	2.59	-89.50	-79.03