

AXCTDs	0	0	0
UAS	0	0	0

Flight Director: Carpenter / Holmes
Phone #: 863-500-3901

ACAT-4 Version = 7.3

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

FLIGHT INFORMATION				CREW MANIFEST			MISSION INFORMATION				
FLT ID:	20201006H1	FLT #:	21-3	AC:	Abitbol	Scientists:	Pressure		Dropsondes		
From:	KLAL	ETD:	0930Z	CP(s):	Mitchell	Zawislak, Jon (HRD)	A/C Takeoff	1009.3	Good	Bad	Sent
To:	KLAL	ETA:	1800Z		Shaw	Chang, Paul (NESDIS)	ASOS Takeoff		KLAL 0935Z 1009.5 mb	33	4
Block Time		Flight Time		NAV:	Richards/B	ASOS Land		N/A			
In:	18:51	Land:	18:42	FE(s):	Darby		A/C Land		N/A	Good	Bad
Out:	9:24	T/O:	9:31	FD(s):	Heystek	ASOS Land		KLAL 1850Z 1009.0 mb		1	2
Total:	9.5	Total:	9.2	SSA:	Mascaro		Visitors:				
Sponsoring Org:		NWS / NHC			SEB:	Storm Number ID:		AL262020			
Program:		PRX				(ie: AL072012)					
Purpose:		Hurricane Delta fixes (1130, 1730)			MX:	TCPOD/WSPOD Mission		NOAA2 0426A DELTA			
						(ie: NOAA2 2418A SANDY)					
AS REQUIRED BY ORM				Y	N	REMARKS		Fix Number	Obs Number	Fix Time	SLP
VOLCANIC ASH					X			1			
SCIENCE MISSION WITHIN BDRY LAYER				X							
LACK OF PRECIPITATION					X			2			
RELATIVE HUMIDITY ≥ 80%				X							
LARGE AIR-SEA TEMP GRADIENT					X			3			
HIGH SURFACE WINDS					X						
LONG FETCH / DURATION OF SFC WND				X				4			
SEA SALT ACCRETION FORECAST					X						
SEA SALT ACCRETION OBSERVED					X			Pennies:	5 Hurricane Pennies		

*Highlighted items must be completed before departure.

Remarks:

P-3 QC Checklist

Overall Assessment	Minor instrument issue(s) - no mission impact.
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Flight ID:	20201006H1
Flight Director(s):	Carpenter / Holmes
Mission:	Tasked/Operational
UWZ.d mean:	0.07

Pressure Comparison		
	T/O	Land
Aircraft	1009.3	N/A
Tower	KLAL 0935Z 1009.5 mb	KLAL 1850Z 1009.0 mb

	Raw 1Hz Mean File Parameters				C File Parameters	
✓ Accelerometer	✓ AccAXI.1 ✓ AccAXI.2 ✓ AccAXI-GPS.1 ✓ AccAXI-GPS.2	✓ AccAYI.1 ✓ AccAYI.2 ✓ AccAYI-GPS.1 ✓ AccAYI-GPS.2	✓ AccAZI.1 ✓ AccAZI.2 ✓ AccAZI-GPS.1 ✓ AccAZI-GPS.2	✓ AccZfilter-GPS.1 ✓ AccZfilter-GPS.2	✓ AccZref	
✓ Altitude	✓ AltGPS.1 ✓ AltGPS.2 ✓ AltGPS.3 ✓ AltGPS.4	✓ Alti-GPS.1 ✓ Alti-GPS.2	✓ AltPaADDU.1 ✓ AltBCADDU.1	✓ AltRA.1 ✓ AltRA.2	✓ ALTref ✓ ALTPA.d ✓ ALTGA.d	✓ AltRA1.c ✓ AltRA2.c
✓ Ground Speed	✓ GsXI-GPS.1 ✓ GsXI-GPS.2	✓ GsYI-GPS.1 ✓ GsYI-GPS.2	✓ GsZI-GPS.1 ✓ GsZI-GPS.2		✓ GSXref ✓ GSYref ✓ GSZref	
✓ Lat / Lon	✓ LatGPS.1 ✓ LatGPS.2 ✓ LatGPS.3 ✓ LatGPS.4	✓ LatI-GPS.1 ✓ LatI-GPS.2	✓ LonGPS.1 ✓ LonGPS.2 ✓ LonGPS.3 ✓ LonGPS.4	✓ LonI-GPS.1 ✓ LonI-GPS.2	✓ LATref ✓ LONref	
✓ Pressure	✓ PDALPHA.1 X PDALPHA.2 ✓ PDBETA.1 X PDBETA.2	✓ PQALPHA.1 ✓ PQBETA.1	✓ PQM.1 ✓ PQM.2 ✓ PQM.3 ✓ PQM.4	✓ PSM.1 ✓ PSM.2 ✓ PTM.1	✓ PDLAPHaref ✓ PDBETAref ✓ PQALPHaref ✓ PQBETAref	✓ PQMref ✓ PQ.c ✓ PSMref ✓ PS.c
✓ Air Speed	✓ CasADDU.1	✓ TasADDU.1	✓ IasADDU.1		✓ IAS.d	✓ TAS.d
✓ Pitch / Roll	✓ PitchI.1 ✓ PitchI.2 X PitchI.3	✓ PitchRateI.1 ✓ PitchRateI.2 X PitchRateI.3	✓ RollI.1 ✓ RollI.2 X RollI.3	✓ RollRateI.1 ✓ RollRateI.2 X RollRateI.3	✓ PITCHref ✓ ROLLref	
✓ Temp / Dewpt	✓ TTM.1 ✓ TTM.2 X TTM.3	✓ TDM.1 ✓ TDM.2 X TDM.3	✓ TRadD.1 ✓ TRadS.1 X TRadU.1		✓ TD.c ✓ TDMref	✓ TTMref ✓ TA.d
✓ Misc. (Must check)					✓ UWZ.d ✓ DPJ_WSZ ✓ HUM	✓ WS.d ✓ WD.d

FLID_Mission_Documents.pdf:
<ul style="list-style-type: none"> ✓ Error Summary ✓ Crew Manifest ✓ QC Checklist ✓ Dropwindsonde Log(s) - AVAPS and FD if completed ✓ Flight Track X Miscellaneous FD Notes

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

NOTES:
<p>AltBCADDU.1 temporary failure at 1213Z.</p> <p>PDAlpha.2 and PDBeta.2 inoperative.</p> <p>PQM.1 temporarily 5-10 mb higher than .2, .3, and .4 between 0930-0950Z.</p> <p>PitchI.3 and RollI.3 unavailable.</p> <p>TTM.3 unavailable.</p> <p>TDM.3 inoperative.</p> <p>TRadU.1 unavailable.</p>

AVAPS Drop Log

Project: Hurr 20

Mission: Hurr DELTA

Flight ID: 2020100642

Take Off: 0931Z

Landing: _____

Flt Dir: Companer / 16 miles Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
1	201448425	1	-4	1028	JW	NWS	SYNOD #1	✓
2	201450529	2	Ø	1053			SYNOD #2	✓
3	201450534	3	Ø	1121			IP #1	✓
4	201510642	4	Ø	1130			Midpoint #1	✓
5	201440531	5	Ø	1145			Rmw	✓
6	201450426	6	Ø	1147			Center #1	✓
7	201450363	7	Ø	1148			Rmw	✓
8	201450503	8	Ø	1158			Midpoint #2	✓
9	201450359	1	Ø	1207			Endpoint #1	✓
10	201450356	2	Ø	1241			IP #2	✓
11	201430665	3	Ø	1252			Midpoint #3	✓
12	201440475	4	Ø	1302			Rmw	✓
13	201450382	5	Ø	1303			Center #2	✓
14	201450502	6	Ø	1304			Rmw	✓
15	201450528	7	Ø	1315			Midpoint #4	✓
16	201450358	8	Ø	1325			ENDPOINT #2	✓
17	201450364	1	Ø	1351			IP #3	✓
18	201510643	2	Ø	1400			Midpoint #5	✓
19	201450381	3	Ø	1410			Rmw	✓
20	201351039	4	Ø	1412			CENTER #3	✓
21	201450360	5	Ø	1413			Rmw	✓
22	201450530	6	Ø	1421			Midpoint #6	✓
23	201350931	7	Ø	1431			Endpoint #3	✓
24	201510641	8	Ø	1448			Midpoint #7	✓
25	201450525	1	Ø	1456			Rmw	✓
26	201450380	2	Ø	1457			Center #4	✓
27	201450357	3	Ø	1459			Rmw	✓
28	201520910	4	Ø	1507			Midpoint #8	✓
29	201510640	5	Ø	1519			Endpoint #4	✓
30	201351032	6	Ø	1610			TP #5	✓
31	201450365	7	Ø	1622			Midpoint #9	✓

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
32	201440378	8	Ø	1632	JW	NWS	RMN	✓
33	201450527	1	Ø	1633			Center #5	✓
34	201740673	2	Ø	1635			RMN	✓
35	201740702	3	Ø	1635			RMN	✓
36	201630252	4	Ø	1647			Midpoint #10	✓
37	201740686	5	Ø	1656			Endpoint #5	✓
38								
39								
40								
41								
42								
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47								
48								
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50								

Drop Station Operator Notes

Charge \$\$ To Options (**DO NOT USE FUNDING CODES**):

AOC, NWS, HRD, NESDIS, IR/SST, AR, STAN (Stanford), SAT (JPSS/NESDIS/HRD)

AVAPS Pre-Flight Check:

- If time-permits, verify cabin pressure sensor w/ lab standard
- Start AVAPS., then start Soundings and set the Project Name and Full Flight ID (example: 20120823N2).
- Verify the Frequency band allocation as required:
Band A: 53rd WRS - Band B: N42RF - Band C: N43RF - Band D: N49RF - Band E: Unallocated
- Select the **GPS Reference** tab from the **Soundings Displays** page and verify good GPS data
- Perform a prelaunch check on each channel, look for reasonable data and no CRC error status lights.
- Verify data is available on Remote AVAPS, then terminate the sonde.
- Verify the AVAPS Data mission folder has been created
- **Verify AVAPS PC Time is correct – if time is off by >4sec, no data will display**
- **Early launch detects are caused usually by remanufactured sondes with the chute riser line not properly coiled below the PCB ear. This may also cause fast falls. If this is suspected, repack the riser line as time permits**
- **Perform RH Regeneration on all sondes – Multiple RD41 sondes may be processed at once**

AVAPS Launch:

- Select a sonde frequency in the Green band and away from other sondes
- Enter sonde pressure error offset if 0.4mB or greater using cabin pressure sensor – warning, this can not be used during a climb
- **If the Cal lab pressure standard and the cabin pressure standard match, apply pressure offset +/- 0.1 mB**
- **Wait until GPS available (green) on the pre-launch screen before continuing.**
- Select "begin data collection" and verify good data with winds prior to putting sonde in launch tube
- On N42 & N43, remove about ½ of the ribbon. Do not shorten the ribbon on N49. Loosen ribbon and extend end of ribbon to near, but not over, the sensor end of the sonde. Place excess orange tape on end of ribbon to form a pocket.
- Place the sonde in the launch tube, sensor arm up, with the power pin socket facing right
- Verify the sonde is actively tracking GPS data prior to launch and **no early launch detect**

NOAA P-3 GPS Dropwindsonde Scientist Log (revised March 2019)

Storm A26/P25A Flight ID 20201006H4 Dropsonde Scientist Zawislaw AVAPS Operator Wraweck Page# 1 of 4
 Mission ID 0426A (exp. 0213A) Dropsonde Scientist Zawislaw AVAPS Operator Wraweck

Drop #	Sonde ID	Time UTC	Lat (°N/S)	Long (°E/W)	Sfc Pressure (mb)	Wind closest to		SST (C)	Eye/EyeWall, Rainband, etc.	Ob #
						Dir/Spd (deg/kt)	Hgt (m)			
1	20140425	102844	23.53	82.85	1009.3	104 / 22			SHORELINE #1 OFF	2
Comments Post-Spar II DATA FUG OPER.										
2	201450529	103333	21.25	83.26	1007.5	093 / 21			SHORELINE #2 OFF	3
Comments										
3	201450534	112138	19.22	82.91	1004.5	058 / 21			10 NM AQUILA	5
Comments Post-Spar IV AND FUG OPER.										
4	201410642	113159	18.57	82.59	1002.9	- / -			10 NM AQUILA	6
Comments BE THE LOCAL CLOUD THAT WOULD HAVE GIVEN A SEC CURVED										
5	20140531	114554	17.87	81.99	968.3	285 / 90			RHW NW	10
Comments										
6	201450426	114732	17.77	81.95	962.5	140 / 26			CTR #1	7
Comments										
7	201450363	114817	17.72	81.93	970.5	~ / low			RHW SE	11
Comments QUITE A BIT OF GAPS IN THE DATA. GPS PROBLEMS, DOUBT OF GAIN IN WIND, BUT DATA TRACKS WITH GAIN										
8	201450503	115802	17.20	81.50	1062.1	207 / 34			MP SE AQUILA	12
Comments										
9	201450359	120729	16.75	81.02	1004.0	186 / 20			EO SE AQUILA	13
Comments										
10	201450356	124156	18.96	81.11	1004.3	116 / 41			10 NE AQUILA	15
Comments										

Storm ALZ66/2020

Mission ID 0426A

NOAA P-3 GPS Dropwindsonde Scientist Log (revised March 2019)

Flight ID 2020100644
(exp. 0213A)

Dropsonde Scientist ZAWISWA
Dropsonde Scientist

AVAPS Operator
AVAPS Operator

WERNER

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Drop #	Sonde ID	Time UTC	Lat (°N/S)	Long (°E/W)	Sfc Pressure (mb)	Wind closest to		SST (C)	Eye/Ewall, Rainband, etc.	Ob #
						Dir/Spd (deg/kt)	Hgt (m)			
11	201430065	125228	18.46	81.68		LOW T STND, NY TRASHY			HP NE (PWR)	1
Comments	UNABLE TO DYNAMOMETER ADJUST TEMP; FINE SNOOWING FOLLOWS FOR TQRY / QZD - BAD RUNNING									
12	201440475	130231	17.92	82.20	959.3	099 / 64			RHW NE (PWR)	16
Comments	VTE UNABLE ADJUST. UN DROUGHT TIME 13:02:31:25; DROUGHT WAS 13:02:24:78									
13	201450382	130344	17.92	82.20					CRD DZ	1
Comments	DID NOT TRANSMIT TO THE SFC - ERROR AT 6 QZ M. SET 1 HR IN STC? - BTU NO									
14	201450502	130442	17.88	82.31	971.3	WSFC			RHW SW (PWR)	18
Comments	WIND → ON GROUND AND TV SFC, BUT NOT CORRECT SFC WIND									
15	201450528	131507	17.38	82.82	1004.3	300 / 36			NR STATION 1	20
Comments										
16	201450358	132540	16.80	93.27	1004.7	301 / 31			BR SW (PWR) 1	21
Comments	POST - SPREAD PAPER FINE DROPS									
17	201450364	135158	17.05	81.51	1005.4	219 / 21			IP SE (PWR) 2	23
Comments										
18	201510043	140030	17.51	91.96	1002.6	208 / 41			HP SE (PWR) 2	24
Comments										
19	201450381	141050	18.05	82.48	962.8	188 / 43			RHW SE (PWR)	1
Comments	ASSEMBLY FUNCTION AS FAST FALL, THINK IT WAS JUST DROPS IN A DOWNDRAFT									
20	2015351039	141217	18.12	82.56	957	113 / 26			CRD V3	25
Comments										

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NOAA P-3 GPS Dropwindsonde Scientist Log (revised March 2019)

Storm **AZC/DETA**
Mission ID **042CA**

Flight ID **20201006H1**
(exp. 0213A)

Dropsonde Scientist **Zoussis**
Dropsonde Scientist

AVAPS Operator **WREAR**
AVAPS Operator

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Drop #	Sonde ID	Time UTC	Lat (°N/S)	Long (°E/W)	Sfc Pressure (mb)	Wind closest to		SST (°C)	Eye/EyeWall, Rainband, etc.	Ob #
						Dir/Spd (deg/kt)	Hgt (m)			
21	201450360	141302	19.16	82.60	930.5	220	190		ENE NW SURFACE	28
Comments: GUF circuit in AW PROBLEMS + dz/dt										
22	201450530	142145 142145	18.6	83.06	999.1	355	140		ENE NW SURFACE	29
Comments										
23	201350931	143114	19.09	83.58	1004.6	019	121		EP NW SURFACE	30
Comments										
24	2020151064	144844	18.65	83.16	1000.1	019	144		ENE NW SURFACE	32
Comments										
25	201450525	145640	18.28	82.79	969.0	215	114		ENE NW SURFACE	35
Comments: Post-SOUND DOWN FUEL - UP SOUND - LOW DZ/Dt										
26	201450380	145758	18.21	82.75	955.8	079	122		CTR "4	31
Comments										
27	201450357	145901	18.15	82.72	959.1	169	148		ENE S SURFACE	36
Comments: ASHBY FUEL @ FORT FUEL → BUT THIN IFS IN A DOWNCAST. VARIOUS BEARS OF AT MISSING AT LOW LEVELS										
28	201520910	150743	17.62	82.51	1001.0	221	136		ENE S SURFACE	37
Comments: Post-SOUND FUEL - ASHBY REMOVE DATA										
29	201510640	151956	16.85	82.21	1004.5	240	125		ENE S SURFACE	38
Comments: Post-SOUND FUEL - ASHBY										
30	2015351032	161048	17.52	84.57	1006.4	292	120		EP NW SURFACE	40
Comments										

NOAA P-3 GPS Dropwindsonde Scientist Log

(revised March 2019)

Storm **AL26/DETA** Flight ID **Z0201006HJ**
 Mission ID **20200426A (exp. 0213A)**

Dropsonde Scientist **Zawisuk**
 Dropsonde Scientist

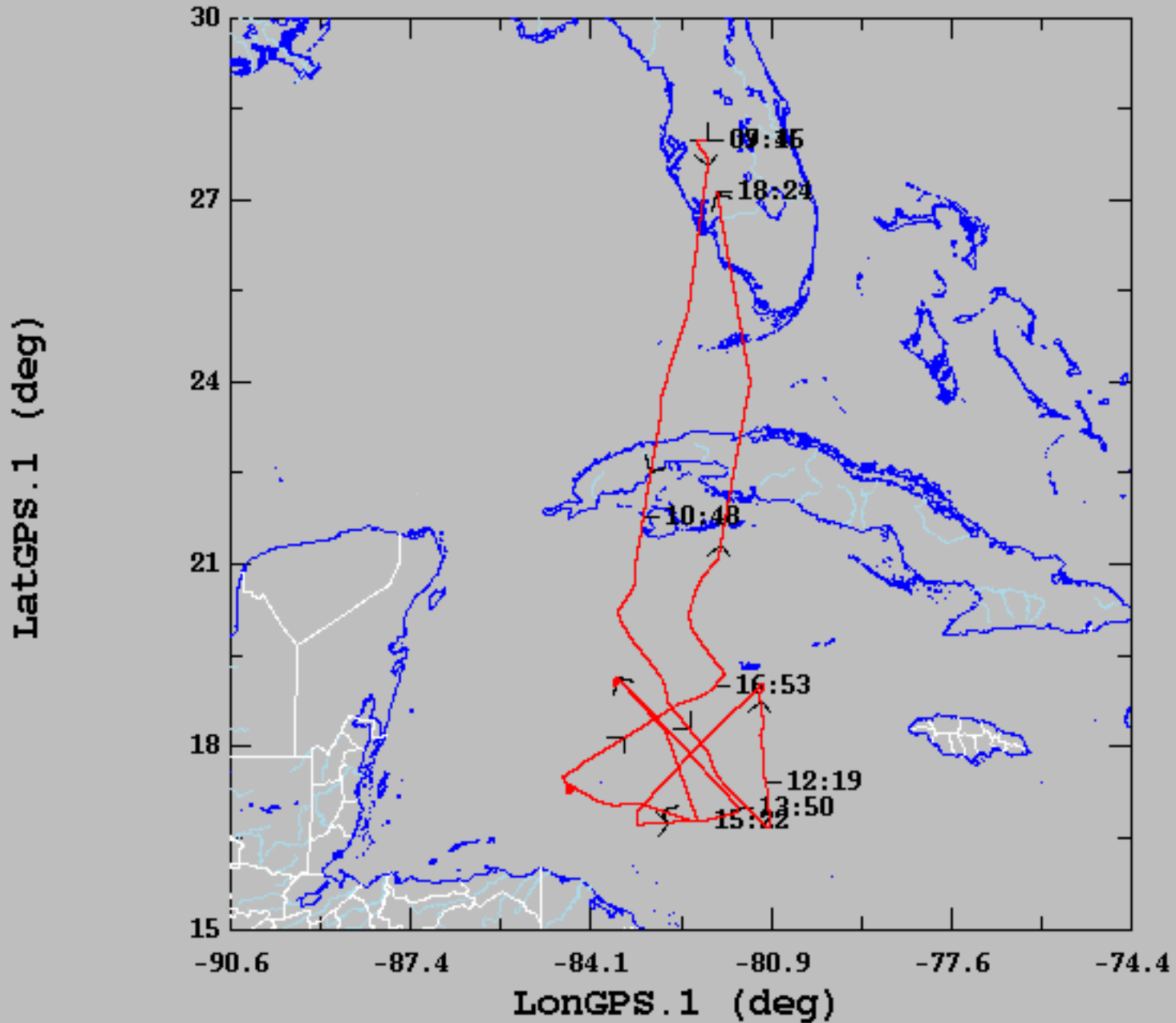
AVAPS Operator **AVAPS Operator**
 AVAPS Operator

CUSKUECK

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Drop #	Sonde ID	Time UTC	Lat (°N/S)	Long (°E/W)	Sfc Pressure (mb)	Wind closest to		SST (°C)	Eye/Eyewall, Rainband, etc.	Ob #
						Dir/Spd (deg/kt)	Hgt (m)			
31	201450965	16211	17.94	83.88	1002.4	291	130		NP WSW IN	41
Comments	Post-SPLAT DATA FILE IN ASSE									
32	201440378	163248	18.81	83.21	975	183	106		RW WSW	44
Comments	AUG LOW WIND AT 1000 FT DOWNWARD, SEVERE PRECIPITATION AND RAINFALL DOWN									
33	201450527	163837	18.34	83.15	974.0	246	111		CTR DS	42
Comments	HUR. THE OUTLINE ALSO INCLUDING BATTERED GEAR IS POSSIBLE									
34	201740673	163502	18.39	83.06	959.6	090	174		RW ENE W	—
Comments	BIG DOWN GAP 900mb → 913mb NOT LOOK AT THE WEATHER									
35	201740702	163545	18.42	83.02	975	—	—		RW ENE W	46
Comments	GUS BIGGER DOWN 0710T 700-800 mb DOWN AT GEAR AT THE CRN CENTER WIND, TLU, SMOODING									
36	201630252	164726	18.78	82.27	1002.3	132	140		NP EWS	47
Comments	LATE WINDY DETECT - OBSERVED 16:47:23.75, WIND 16:47:27.75									
37	201740686	165015	19.14	81.75	1004.5	123	126		EP EWS	48
Comments	LAST REPORT									
Comments										
Comments										
Comments										

10/06/2020, 07:45:20-18:24:47



	mean	sigma	min	max
— LatGPS.1 (deg), 1 s/sec	21.20	4.17	16.67	27.99
— LongGPS.1 (deg), 1 s/sec	-82.39	0.82	-84.61	-80.88