

## NOAA • AOC • SED

N49RF AVAPS DROP LOG

Lead Tech: Gabe Defeo

Project: Hurricane 2018

Mission: SALFlight ID: 20180920N1

Take Off: \_\_\_\_\_

Landing: \_\_\_\_\_

Flt Dir: Rich

Launcher S/N: \_\_\_\_\_

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
<del>1</del>	181920947	1	-0.5	13:37	AJP	SAT		✓
<del>2</del>	182330636	2	0	13:54				✓
<del>3</del>	182340115	3	-0.3	14:05	↓	↓		✓
<del>4</del>	182340139	4	0	14:16				✓
<del>5</del>	182310500	1	0	14:27				✓
<del>6</del>	182240287	2	-0.4	14:38			last fall, then stabilized	✓
<del>7</del>	181921009	3	0	14:39			Back up 6	✓
<del>8</del>	182340117	4	0	14:58			DP #7	✓
<del>9</del>	182340155	1	0	15:06				✓
<del>10</del>	182930331	2	-0.4	15:13				✓
<del>11</del>	182010472	3	0	15:20				✓
<del>12</del>	182010457	4	-0.3	15:27				✓
<del>13</del>	181930905	1	0	15:33				✓
<del>14</del>	182330613	2	0	15:41				✓
<del>15</del>	182010731	3	-0.6	15:48				✓
<del>16</del>	182340168	4	0	15:55				✓
<del>17</del>	182340137	1	0	16:06				✓
<del>18</del>	181930904	2	0	16:17				✓
<del>19</del>	181930902	3	0	16:27				✓
<del>20</del>	182010071	4	0	16:38				✓
<del>21</del>	182010090	1	0	16:45				✓
<del>22</del>	181930910	2	0	16:53				✓
<del>23</del>	182010722	3	0	17:01				✓
<del>24</del>	182930351	4	0	17:09				✓
<del>25</del>	182010725	1	0	17:19				✓
<del>26</del>	182340160	2	0	17:28				✓
<del>27</del>	182330625	3	0	17:37				✓
<del>28</del>	181921006	4	0	17:46				✓
<del>29</del>	182240339	1	0	17:53				✓
<del>30</del>	182340138	2	0	18:00				✓
<del>31</del>	182310399	3	0	18:07				✓
<del>32</del>	182330633	4	0	18:14				✓
<del>33</del>	182340118	1	0	18:21				✓
<del>34</del>	182330618	2	0	18:28				✓

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge \$\$ To	Comments	Good ?
<del>35</del>	182010072	3	0	18:41	AJP	SAT		✓
<del>36</del>	182330653	4	0	18:53	↓	↓		✓
<del>37</del>	183010647	1	0	19:05	↓	↓		✓
<del>38</del>	182310501	2	-0.5	19:18				✓
<del>39</del>	182340127	3	0	20:15				✓
<del>40</del>	182210264	4	0	20:26				✓
<del>41</del>	183010865	1	0	20:47			fast fall / Partial data	✓
<del>42</del>	182330632	2	0	20:49			NO RH part No Air Temp Hum.	✗
43								
44								
45								
46								
47								
48								
49								
50								
51								
52								
53								

Drop Station Operator Notes

Charge \$\$ To Options: AOC, NWS, HFIP, HRD, IR/SST, SAT (Special NESDIS/HRD sondes) or HRD ONLY– Do not use funding codes!

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 - W53rd, Band B - Research, Band C - N43RF, Band D - N49RF, Band E – Global Hawk
- 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 at R1 and L1, then terminate the sonde by selecting **NoDrop** to cancel the sonde initialization. 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
- Select “begin data collection” and verify good data with winds prior to putting sonde in launch tube
- 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 the sonde in the launch tube, sensor arm up, with the power pin socket facing starboard
- Verify the sonde is actively tracking GPS data prior to launch and no early launch detect