| **MISSION PLAN** | | | |
| --- | --- | --- | --- |
| **FLIGHT ID** | 202200901N1 | **STORM** | AL91 |
| **MISSION ID** | WHWXA | **TAIL NUMBER** | NOAA49 |
| **TASKING** | HRD | **PLANNED PATTERN** | Survey/Lawnmower |
| **MISSION SUMMARY** | | | |
| **TAKEOFF [UTC]** | 1837 | **LANDING [UTC]** | 0110 |
| **TAKEOFF LOCATION** | Barbados | **LANDING LOCATION** | Lakeland |
| **FLIGHT TIME** | 6.5 | **BLOCK TIME** | 6.8 |
| **TOTAL REAL-TIME RADAR ANALYSES**  **(Transmitted)** | 2 | **TOTAL DROPSONDES (Good/Transmitted)** | 16 (15 / 15) |
| **OCEAN EXPENDABLES (Type)** | None | **sUAS (Type)** | None |
| **APHEX EXPERIMENTS / MODULES** | Genesis Experiment: FAM; Early Stage Experiment: ITOFS | | |
| **HRD CREW MANIFEST** | | | |
| **LPS ONBOARD** | None | **LPS GROUND** | Kaplan |
| **TDR ONBOARD** | None | **TDR GROUND** | Gamache |
| **ASPEN ONBOARD** | AOC FD | **ASPEN GROUND** | None |
| **NESDIS SCIENTISTS** | None | | |
| **GUESTS (Affiliation)** | None | | |
| **AOC CREW MANIFEST** | | | |
| **PILOTS** | Mansour, Waddington | | |
| **NAVIGATOR** | None | | |
| **FLIGHT ENGINEERS** | None | | |
| **FLIGHT DIRECTOR** | Henning | | |
| **DATA TECHNICIAN** | Defeo | | |
| **AVAPS** | Lynch | | |

| **PRE-FLIGHT** | |
| --- | --- |
| **Flight Plan** |  |
| **Expendable Distribution** | Release a dropsonde at each of the green points in the above flight track image |
| **Preflight Weather Briefing** |  |
| **Instrument Notes** |  |

| **IN-FLIGHT** | |
| --- | --- |
| **Time [UTC]** | **Event** |
| 1837 | Takeoff from Barbados |
| 0109 | Landing in Lakeland |

| **POST-FLIGHT** | |
| --- | --- |
| **Mission Summary** | The mission was conducted as planned. There was an airborne balloon located near Dropsonde point 8 (blue open circle on MTS track shown below) that was near at an altitude of 47,000 ft that resulted in communications between Jason Dunion and that group to ensure that it remained above that level during the mission.  16 dropsondes (15 good and transmitted) were released during the mission (all charged to NWS). |
| **Actual Standard Pattern Flown** | Survey / Lawnmower |
| **APHEX Experiments / Modules Flown** | Data collection supported the *Genesis Stage Experiment: Favorable Air Mass (FAM)* and the *Early Stage Experiment: Impact of Targeted Observations on Forecasts (ITOFS).* |
| **Plain Language Summary** |  |
| **Instrument Notes** | SATCOM ~2300 UTC – there were some Satcom issues reported  that resulted in a delay in the transmission of some sondes. However, 15 sondes were ultimately transmitted successfully. The TDR-AOC engineer reported that the G-IV INE was not functioning properly during turns apparently due to a loose cable that was subsequently tightened which appeared to have resolved the problem. |
| **Final Mission Track** | *9/1 2340 UTC* |