| **MISSION PLAN** | | | |
| --- | --- | --- | --- |
| **FLIGHT ID** | 20220831N1 | **STORM** | AL91 |
| **MISSION ID** | WFWXA | **TAIL NUMBER** | NOAA49 |
| **TASKING** | HRD | **PLANNED PATTERN** | Survey/Lawnmower |
| **MISSION SUMMARY** | | | |
| **TAKEOFF [UTC]** | 1838 | **LANDING [UTC]** | 0220 |
| **TAKEOFF LOCATION** | Barbados | **LANDING LOCATION** | Barbados |
| **FLIGHT TIME** | 7.7 | **BLOCK TIME** | 7.9 |
| **TOTAL REAL-TIME RADAR ANALYSES**  **(Transmitted)** | 5 | **TOTAL DROPSONDES (Good/Transmitted)** | 32 (31 / 31) |
| **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 TECHNICIAN02** | Defeo | | |
| **AVAPS** | Lynch | | |

| **PRE-FLIGHT** | |
| --- | --- |
| **Flight Plan** |  |
| **Expendable Distribution** | Release a dropsonde at each of the green points in the above image |
| **Preflight Weather Briefing** |  |
| **Instrument Notes** | AVAPS and TDR operating normally. |

| **IN-FLIGHT** | |
| --- | --- |
| **Time [UTC]** | **Event** |
|  | Plane needed to deviate to the northeast between points 6 and 7 and points 7 and 8 due to convective activity (cloud tops > 50-52 K ft). |
| 2300 | Drop pt 7 stopped sending good data at 974 mb, so no height data for that drop. |
| 2227 | Plane deviated due to convective activity |
| 2302 |  |
| 2357 |  |

| **POST-FLIGHT** | |
| --- | --- |
| **Mission Summary** | 5 TDR analyses were performed and sent to EMC    32 dropsondes were released (31 were good and transmitted, 1 was bad) and were all charged to NWS. |
| **Actual Standard Pattern Flown** | Survey / Lawnmower |
| **APHEX Experiments / Modules Flown** | Data collection supported the *Genesis Experiment: Favorable Air Mass* and *Early Stage Experiment: ITOFS (Impact of Targeted Observations on Forecasts)* |
| **Plain Language Summary** |  |
| **Instrument Notes** | TDR worked well. 5 analyses were sent. |
| **Final Mission Track** |  |