| **MISSION PLAN** | | | |
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| **FLIGHT ID** | 20220828I1 | **STORM** | AL01 |
| **MISSION ID** | WXWXA | **TAIL NUMBER** | NOAA43 |
| **TASKING** | NHC | **PLANNED PATTERN** | Ferry |
| **MISSION SUMMARY** | | | |
| **TAKEOFF [UTC]** | 2002 | **LANDING [UTC]** | 0101, 29 August |
| **TAKEOFF LOCATION** | Lakeland | **LANDING LOCATION** | Barbados |
| **FLIGHT TIME** | 5 h | **BLOCK TIME** | 5.3 h |
| **TOTAL REAL-TIME RADAR ANALYSES**  **(Transmitted)** | 0 | **TOTAL DROPSONDES (Good/Transmitted)** | 0 |
| **OCEAN EXPENDABLES (Type)** | 0 | **sUAS (Type)** | NA |
| **APHEX EXPERIMENTS / MODULES** | ferry | | |
| **HRD CREW MANIFEST** | | | |
| **LPS ONBOARD** | Frank Marks | **LPS GROUND** |  |
| **TDR ONBOARD** | Paul Reasor | **TDR GROUND** |  |
| **ASPEN ONBOARD** | Sim Aberson | **ASPEN GROUND** |  |
| **NESDIS SCIENTISTS** | Paul Chang, Zorana Jelenak, Joe Sapp | | |
| **GUESTS (Affiliation)** | Sans Souci, Kregelka, Lalende, Mazur (AOC) | | |
| **AOC CREW MANIFEST** | | | |
| **PILOTS** | Doremus, Copare, Wood | | |
| **NAVIGATOR** | Utama | | |
| **FLIGHT ENGINEERS** | Darby, Pittman | | |
| **FLIGHT DIRECTOR** | Kalen, Holmes | | |
| **DATA TECHNICIAN** | Richards | | |
| **AVAPS** | Warnecke | | |

| **PRE-FLIGHT** | |
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| **Flight Plan** | *[Insert image of submitted flight pattern here]*  *[Insert image of ONR/TCRI detailed pattern image, if available]*  *[If you want, briefly describe the pattern in words]* |
| **Expendable Distribution** | *[Describe planned dropsonde, ocean buoy, sUAS deployment locations; e.g., “Dropsondes/AXBT combo drops at endpoints, midpoints, and center”* |
| **Preflight Weather Briefing** | *[Notes from the Flight Crew Preflight Briefing and other relevant notes about the current and forecasted storm state from the most recent NHC advisory (location, intensity, MSLP, movement, possible intensity change during the flight)]*  *[Briefly describe the relevant environmental drivers.]*  *[Copy in GIF of recent (~6 hr) satellite loops (https://www.star.nesdis.noaa.gov/GOES/index.php)]* |
| **Instrument Notes** | *[What instruments are working, not working, not functioning nominally, not installed?]* |

| **IN-FLIGHT** | |
| --- | --- |
| **Time [UTC]** | **Event** |
| 2002 | *Take off* |
| 2120 | Set MMR to HWX mode, seems to be working well |
| 2220 | TDR turned on and Paul Reasor and John Gamache tested sending jobfiles |
| 2243 - 2317 | Chat server down - likely solar flare activity |
| 010130 | land |
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| **POST-FLIGHT** | |
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| **Mission Summary** | *Good Ferry. We were able to set up our workstations, check out the AVAPS, MMR and TDR.*  *A number of annoying issues were noted during the ferry.*  *1. It would be great if each of the computers HRD uses had KARMA bookmarked. The same is true for the Google Docs link for the logs and the mission summaries. This happens every year that we have to ask for the URL. Alternatively, we can have the info on the drive where we can find it easily. Our solution was to make bookmarks in the browser on the workstations we use for future use.*  *2. The MMR displays on the plane are somewhat problematic. There appear to be two main displays, one at the FD station, one at C3X. The FD display mirrors onto the IPads; the C3X display mirrors to the large screen in front of the LPS/radar seats. The two main displays are fine. The iPad display is distorted into an oval so that north-south range rings are maybe 1.5 times the size of east-west ones. The big display is distorted into an oval so that the east-west range rings are maybe 1.5 times the size of the north-south ones. It's disconcerting to have three different versions of the same image. distorted in different ways All the AOC people claim that nothing has changed and that there is nothing that can be done.*  *In good news, the sonde station at C3X seems to be set up perfectly.* |
| **Actual Standard Pattern Flown** | *[Butterfly, Rotated Figure-4, Lawnmower, etc]*  *Ferry* |
| **APHEX Experiments / Modules Flown** | *[Linked to HFP Plan; fill in regardless of whether the mission was operationally or research tasked]* |
| **Plain Language Summary** | *[Boil down the above into a couple of bullet points in “plain language”. This will help us when we report to management and prepare storm mission summaries]* |
| **Instrument Notes** | *AVAPS, MMR and TDR all seemed to be working fine. Some comms issues during flight likely caused by solar flare activity.* |
| **Final Mission Track** | *[Insert MTS screenshot of final flown track, ideally at the completion of the pattern with satellite imagery]* |