

ZP11/Jim Smoot/Weekly Notes

7/29/14

HIRAD INTEGRATED ON GLOBAL HAWK FOR HS3 AND TESTED (mail to:

daniel.j.cecil@nasa.gov/phone: 256-961-7549): The Hurricane Imaging Radiometer (HIRAD) was integrated onto the NASA Global Hawk AV-1 at Armstrong Flight Research Center (AFRC) on schedule for the Hurricane & Severe Storm Sentinel (HS3)+ field campaign. Integration was completed during the week of 7/14/14, with support from Dave Simmons (UAH) and Carl Benson (ES63) deployed to AFRC, and from the Global Hawk team at AFRC. Testing (communications, functionality, and noise sources) was completed the week of 7/21/14 with support from Sayak Biswas (USRA/ZP11), Karthik Srinivasan (USRA/ZP11) deployed to AFRC, Dan Cecil (ZP11) deployed to Wallops Flight Center, and from the Global Hawk team and the associated IT team. Rita Edwards (MITS/ZP11) troubleshooted firewall issues that turned out to be on the AFRC side, and confirmed that HIRAD data from the airplane was received at NSSTC. After completion of tests, HIRAD was temporarily removed from the aircraft to facilitate aircraft maintenance. It will be re-installed 8/11/14, followed by subsequent tests and flights. Science flights are still on schedule for 8/26/14 – 9/29/14.

IGARRS 2014 ADCOM MEETING AND CONFERENCE PARTICIPATION (email:

rahul.ramachandran@nasa.gov/ phone: 256-961-7620): Dr. Ramachandran (ZP11) participated in the Institute of Electrical and Electronics Engineers (IEEE) Geoscience and Remote Sensing Society (GRSS) Administrative Committee meeting 7/11-12/14 in Quebec City, Canada. He chaired two sessions at the IEEE Geosciences and Remote Sensing Symposium (IGARSS) 2014 conference. The first session titled “Advancing Science through Management of the Geospatial Data Lifecycle” focused on the role standards play at each stage in the sequence of processes by which knowledge is generated from geoscience observations, simulations and analysis. The second session on "Implications of Big Data to Remote Sensing” explored the emerging big data technologies for processing and analysis of remote sensing data sets. He also presented his work on ontology based data curation in a poster session. In his role as the chair of the GRSS Earth Science Informatics Technical Committee (ESI TC), he held a technical meeting during the conference focusing on new ESI TC initiatives and future conference sessions.

CLIMATE DATA INITIATIVE FOOD RESILIENCE THEME LAUNCHED BY WHITE

HOUSE (email: rahul.ramachandran@nasa.gov/ phone: 256-9617620): The White House launched a new theme on 7/29/14 as part of President’s Climate Data Initiative to address food resilience, and the contributions of agriculture to climate change through data and innovation. Dr. Ramachandran (ZP11) and his team assisted in this effort in their role as data coordinators. URL to the White House blog:

<http://www.whitehouse.gov/blog/2014/07/29/unleashing-climate-data-empower-america-s-agricultural-sector>
