

Inter-agency Working Group for Airborne Data and Telecommunications Systems (IWGADTS)

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About:

- Formed in 2005
- Subgroup to ICCAGRA
- Members include NASA, NSF, NSERC, DOE, ONR.
- We meet 2-3 times a year in Boulder, CO
- Chair: Chris Webster (cjw@ucar.edu)
- Co-chair: Larry Freudinger (lawrence.c.freudinger@nasa.gov)
- Website: <http://www.eol.ucar.edu/iwgadts>

Purpose

- Identify, improve, and enhance
 - Interagency needs for data and networked systems
 - Improve interoperability of airborne platforms between agencies
 - Enhance opportunities for interagency sharing of aircraft resources, airborne instrumentation and data to minimize duplication, and to expand science investigators' access to interagency assets
- Provide technical recommendations
- Facilitate the development of common data and networking systems leading to a fully interoperable global observing system which includes suborbital and space-based components

Recommendations to date:

- Recommend interfaces, not specific implementations
- Data transmission: Ethernet UDP
- Timing: IRIG-B, NTP optional
- Defined real-time Feed: 1 second IWG1 packet
- Flexible data Exchange: General CSV packet

Works in progress and future:

- Situational awareness for multi-aircraft campaigns
- Remote instrument control
- Sensor alerts
- Data file formats
 - Metadata standards
 - Data Discovery standards.