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Earth Science Data Systems (ESDS) Program, HQ SMD

Earth Science Division (ESD) Airborne Investigation Data System Requirements

Version 1.0



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The ESD Airborne Investigation Data System Requirements document details the programmatic data system requirements to be utilized in all Earth Venture Sub-orbitals (EVS) investigations. These Level 1 requirements are documented in the Earth Venture Suborbital Project Implementation Plan or applicable investigation Data Management Plan.

Change History Log

Revision	Effective Date	Description of Changes
1.0	8/23/2018	Baseline document

Earth Science Division (ESD) Airborne Investigation Data System Requirements

To ensure uniform and complete implementation of the principles embodied in the NASA Earth science data policy, the following programmatic data system requirements have been created to be utilized in all Earth Venture Sub-orbitals (EVS) investigations. These L1 requirements are documented in the Earth Venture Suborbital <<Investigation Name>> Implementation Plans or applicable investigation Data Management Plans.

4.5 INVESTIGATION DATA REQUIREMENTS

4.5.1 SCIENCE DATA MANAGEMENT

- a) The <<investigation name>> Investigation shall produce the standard science data products listed in Table 4.5.1.
- b) The <<investigation name>> Investigation standard science data products and associated metadata shall be made publicly available with the latencies given in Table 4.5.1. There shall be no period of exclusive access.
- c) Science algorithms and calibration procedures used to generate the standard data products listed in Table 4.5.1 shall be described in documents that are accessible to users after the latencies given in Table 4.5.1.
- d) The <<investigation name>> Investigation shall deliver all data products, along with the scientific algorithm software, coefficients, and ancillary data used to generate these products, to the <<designated NASA Earth Science Division-assigned Data Center(s)>> as soon as possible, typically within 3-6 months of data acquisition.
- e) All terms and conditions of the transfer of data products and associated information to the <<designated NASA Earth Science Division-assigned Data Center(s)>> shall be documented in a Data Management Plan.

Table 4.5.1 <<investigation name>> Airborne Standard Data Products

Data Product	Description	Preliminary Latency Not to Exceed	Final Latency Not to Exceed
Level 1	<<Level 1 description>>	<3-6 months >	<a hours, days>
Level 2	<<Level 2 description>>	<3-6 months >	< b hours, days >
Level 3	<<Level 3 description>>	<3-6 months >	< c hours, days >

4.5.2 SCIENCE DATA REQUIREMENTS

- a) The <<investigation name>> science data product formats shall conform to one of the ESD-approved Data System Standards.
- b) The <<investigation name>> science data products shall have accompanying spatial, temporal and product metadata that conform to ESD-approved metadata specifications.

4.5.3 APPLIED SCIENCE DATA

- a) The <<investigation name>> Investigation team shall participate in relevant NASA-sponsored product application workshops.