Data Analysis Splinter

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Data Analysis Splinter Group

- Information (data & model output) must be readily available to all, across all elements of the LWS Program.
- Four general product categories: high resolution, overview, space weather, and public information.
- Solution must be long lived, independent of technology.
- All that can be recommended now is an approach to LWS IS design.

Information (data & model output) must be readily available to all, across all elements of the LWS Program.

- Perhaps one IS architecture should be shared by all LWS missions and theory & modeling (T&M).
- There should be sufficient commonality to enable applications which readily support comparison of data products from all instruments on all spacecraft and from T&M.
- IS should be integral with handling data and model products prior to instrument design. Same data flow path shared by all alike.
- Calibration to physical units should not be a concern of the information consumer.

Four general product categories: high resolution, overview, space weather, and public information.

- Build in calibration to process for accessing high resolution data, but accommodate unique data requirements. Timely flow to all, all the time.
- Overview data should share time resolution and be a meaningful representation of high resolution data set. Data displays on common terms.
- IS implementation must accommodate selected creation and real-time flow of data products to space weather community.
- IS implementation must anticipate and create data products optimized for educators and public. “Inform, Inspire, Engage”.

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- The LWS record is for the long-haul relative to the time scale of technology changes.
- Seek architecture implementations that enable inclusion of improving technology.
- Information must be useful beyond their creators.
- The pattern of data life may be in two stages: first during active mission operation and second following end of active processing validation.

All that can be recommended now is an approach to LWS IS design.

- Establish mission cross-cutting group to develop IS architecture for LWS.
- Create advisory/review group for long term scouting of NASA-wide advanced IS technology development. Actively shop for and promote LWS applicable technologies. Experiment w/current...
- Consider a separate LWS “mission” for IS that is used by all flight teams and in which they are represented. “LWS IS Utility and Tool Company”.
- Identify useful successes of the past, i.e. learn.
- Quantify success among LWS researchers.