



ICESTAR Implementation Plan

Spring and summer 2005

Project meetings in EGU (Vienna) and IAGA (Toulouse): Specifications for the design reference models for each TAG. Specifications of the initial VO component archives (Institutes, their data and software).

- **Telecon meetings:** Scheduled as necessary for smaller discussion groups.

Autumn 2005

Establishing project management:

- 1) Core group (e.g. chairpersons and Aaron Ridley): Budget matters, Public outreach, contact towards SCAR, overall control on the VO development schedule
- 2) Scientific and Technical Board (e.g. ICESTAR steering committee + representatives from the distributed archives): Making specifications, finding resources for the actual development work, evaluating the outcome

First Technical workshop: First Specification for a reasonable VO overall structure. The VO could have e.g. the following elements: Distributed archives, adaptive metadata thesaurus, unified Graphics User Interface, possibilities to do context-based searching (e.g. searching SD-potential patterns with the criteria of certain cross polar cap potential drop) and distributed computing, procedures for monitoring usage statistics, and educator's interface for public outreach.

First meeting of the Scientific and Technical board: What elements in the VO specification are necessary and what properties they should have to meet the demands of the design reference models? Recommendations to the community to fill the most critical gaps in the measurement instrumentation. Output: the URD (User Requirements Definition)

Spring 2006

Second Technical workshop: Specification for the technical solutions to meet the needs of the URD. Search for the most suitable options for the programming languages, for data catalogue structures, for visualization tools and input and output data formats.

Building the prototype of federated distributed archives and metadata collection routines.

Autumn 2006

Building the User Interface and other necessary elements.

Testing the prototype system with the design reference models. Test results presented e.g. in a CAWSES-ICESTAR workshop.

Adjusting the system according to the feedback from the first test runs.

Spring 2007

Second meeting of the Scientific and Technical Board: Mid-term review.

Introducing the VO to the IPY community and expanding the system with new data archives and software.

Establishing reliable monitoring routines for user statistics (both for VO and for the individual data archives)

Publishing the results of the design reference models.

Autumn 2007-Spring 2009

Collaboration with the IPY community, presenting results in international meetings. Expanding the VO according to the needs of the user community and upgrading its distributed computing capabilities.

Autumn 2009- Future

Publishing results of IPY studies

Third meeting of the Scientific and Technical Board: Evaluation of the user statistics and decision about continuation or closure.