VSO Status and Plans
2007 June

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VSO Status (I)

- Fully functional VO
  - 3 instances (Stanford, NSO, SDAC)
  - 14 providers (server locations)
  - 48 unique data sets
  - Data from 1915 to present
- Fully funded for FY07 - 08
  - FY2006 Senior Review of Heliophysics Data and Modeling Centers
  - “Optimal” budget funded
VSO Status (II)

- Additional funding was directed at work on:
  - Cart ID for API calls
  - Joined searches (catalogs/event lists and data sources)
  - Region/coordinate searches
  - Improved robustness/stability
  - API improvements
  - Heliophysics meta-VO (e.g. this meeting!)
  - RDF/semantic Web/discovery
Recent VSO Milestones

• New data providers
  • STEREO (all instruments, both spacecraft)
  • *Hinode* (XRT so far, SOT and EIS in progress)
  • groundbased (Huairou, in progress)

• IDL-callable VSO
  • uses API
VSO Work in Progress

- Realization that more and more new data sources would overwhelm our GUI
  - Too many results per {day, hour, &c.}
  - Need expandable summary rows in results pages
  - Driven by GONG (groundbased), Hinode, upcoming SDO data sets
    - For Hinode SOT alone, results could be > 5,000 files per day
    - For SDO AIA, results will be > 69,000 files per day
**VSO collaborations**

- **Existing (EGSO, CoSEC, VHO, VSPO)**
  - little change since 2006 May
  - some API issues

- **SPASE**
  - For us, a language in which partners will frame queries, which we will translate to an agreed mapping to the VSO data model
VSO non-metrics

A poor VSO metric

Number of items in VSO carts

Date (quarter)

2005Q2  2006Q1  2007Q1

* Known undercount (one or more servers not reporting)
VSO issue

- Personnel availability
  - Three seasoned programmers
    - One now full-time on SDO (through [date])
    - One had visa issues in 2007Q1
    - One was dragooned into working on SOHO DSN scheduling issues when he was already responsible for new provider integration, STEREO and Hinode backends
  - 2/3 of these issue should be easing