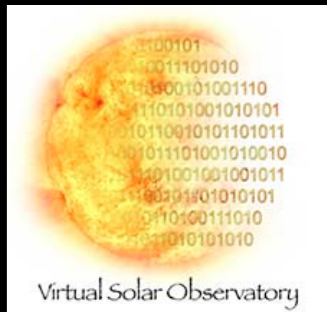


VSO Status and Plans 2007 June

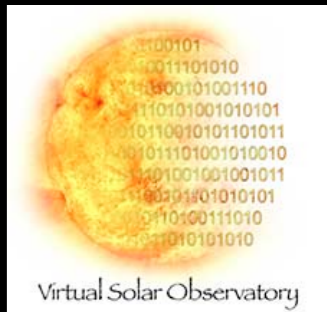
Joe Gurman
*NASA Goddard Space Flight Center
Heliophysics Division
Laboratory for Solar Physics*

VSO Status (I)



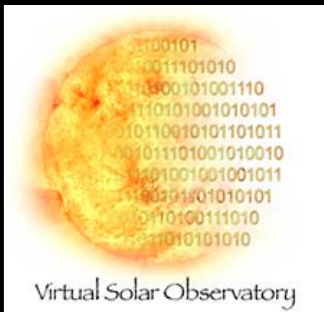
- Fully functional VO
 - 3 instances (Stanford, NSO, SDAC)
 - 14 providers (server locations)
 - 48 unique data sets
 - Data from 1915 to present
- Fully funded for FY07 - 08
 - FY2006 Senior Review of Heliophysics Data and Modeling Centers
 - “Optimal” budget funded

VSO Status (II)



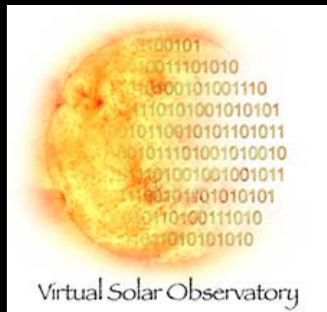
- Additional funding was directed at work on:
 - Cart ID for API calls
 - Joined searches (catalogs/event lists and data sources)
 - Region/coordinate searches
 - Improved robustness/stability
 - API improvements
 - Heliophysics meta-VO (e.g. this meeting!)
 - RDF/semantic Web/discovery

Recent VSO Milestones



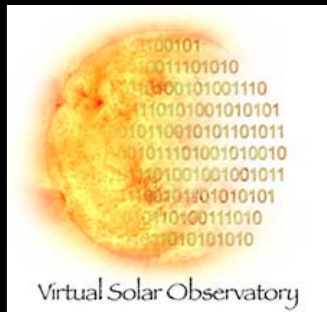
- New data providers
 - STEREO (all instruments, both spacecraft)
 - *Hinode* (XRT so far, SOT and EIS in progress)
 - groundbased (Huairou, in progress)
- IDL-callable VSO
 - uses API

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

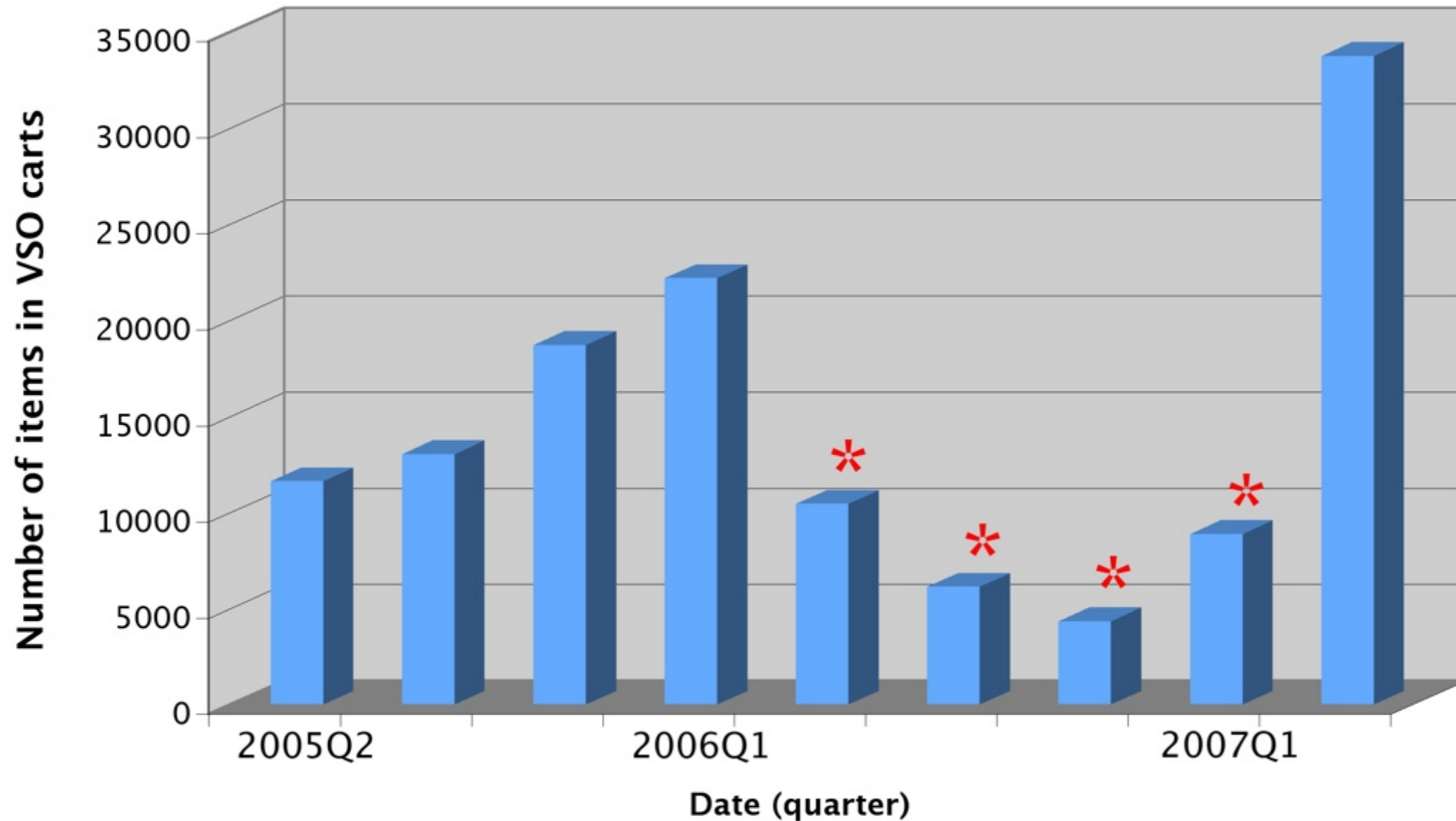


- Existing (EGSO, CoSEC, VHO, VSPO)
 - little change since 2006 May
 - some API issues
- SPASE
 - For us, a language in which partners will frame queries, which we will translate to an agreed mapping to the VSO data model

VSO non-metrics

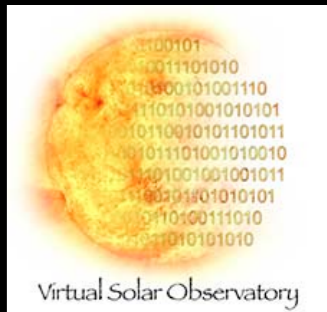


A poor VSO metric



* 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* back-ends
- 2/3 of these issue should be easing