

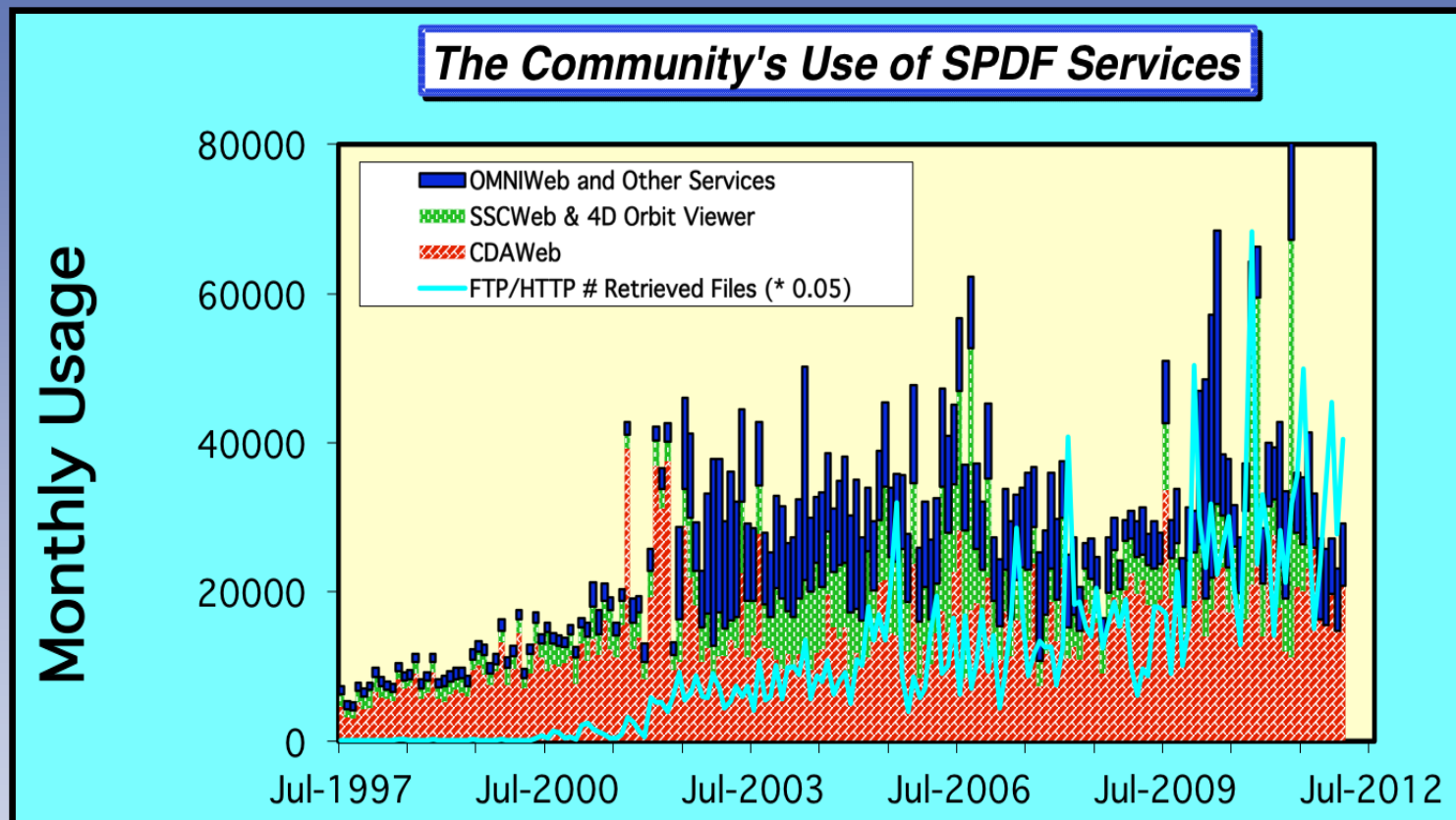


SPDF and RBSP

- **SPDF (as a Heliophysics Final Archive) will work closely with RBSP teams and ViRBO to capture an ongoing understanding of planned and actual RBSP working and archival data products**
- **SPDF will support RBSP in making and using CDF format**
 - CDF Version 3.4 was released in March (w Leap Seconds/time_TT2000)
 - Version 3.5 changes will be internal only
 - Training and custom support as project and teams request
 - *ViRBO team will then produce required RBSP product SPASE descriptions working with SPDF, the RBSP PDMP, RBSP CDF metadata, and the RBSP science teams*
- **SPDF will load appropriate RBSP planned ephemeris into SSCWeb**
 - Process has been set up for transmitting SPICE kernel updates to SPDF
- **SPDF will support ingest, archiving and distribution of public RBSP data**
 - CDFs through CDAWeb
 - SPDF does significant validation & checking for all CDAWeb ingests
 - Autoplot service can access/read the CDAWeb database
 - SPDF supports a variety of methods for retrieving data (CDFs and other)
 - Starting to work directly with a couple of the RBSP science teams



SPDF Use and Acknowledgements



~20% of space physics 2011 papers in AGU journals acknowledged SPDF services and/or data (with similar acknowledgments in 2010 and 2009)



Backups and Added Details



Discussion Points with the RBSP SOC's

- **Much easier if SPDF can see sample CDFs early**
 - Skeleton CDFs and CDFs with test/simulated data
 - Goal=specific and constructive feedback; also helps SPDF prepare
 - ViRBO can start work on SPASE descriptions for the project
- **Please ask if there are any CDF questions or concerns**
 - There's always more SPDF can learn from its users
 - Sometimes we can do things at our end to make your jobs easier
 - Sometimes we can suggest more efficient ways to handle data
- **How do the RBSP teams prefer to get data into SPDF?**
 - Contact points and overall coordination
 - Push to SPDF directories; SPDF pull from team site directories
 - Directory locations and organization
 - What data products will be in CDF and may be scientifically useful?



A Reminder: Steps to Put Data into CDF

- 1. Define and create the CDF structure to receive the data**
 - Create skeleton CDF (e.g. using the SKTEditor tool)

- 2. Use one of multiple options to load data**
 - In IDL, use IDLmakeCDF procedures
 - Use read_master_cdf to read skeleton and create a structure within IDL,
 - Load that structure using standard IDL calls as necessary,
 - Use write_data_to_cdf to create a CDF with data
 - Use makeCDF tool
 - skeleton CDF + input file + file format description
 - Direct writes to CDF using CDF library
 - Directly in programs or calls inside IDL
 - If data is in another standard self-describing format, use e.g SPDF's Data Translation Web Service
 - E.g. netCDF, HDF, FITS or CDFML description

N.B. SPDF staff will be here after the SWT today (or by e-mail or telecon) for anyone with questions, concerns, needing direct assistance