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SECAA Program Report

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- Status, Metrics and Highlights
- Work In-Progress and Planned
- Budget Overview
Status and Metrics

- Current SECAA data services are operating continuously and without significant problems

- Figure shows growing combined usage of full range of services
  - GIFWALK is a joint effort of SECAA, NSSDC and the PWG project
    - GIFWALK statistics available only from June 2002
    - Many file retrievals earlier than ~July 2001 not fully captured
Status and Metrics (cont)

- **CDAWeb use by function**
  - Note: ~56 space physics instruments now have reasonably current data served from CDAWeb

- **SSCWeb use by function**
  - Note: current orbit data for 33 missions are maintained and served by SSCWeb
Highlight: Expanded User Interfaces

- 3 primary paths for users
  - Direct links to all individual services
  - Service/data finding and links via SPDF home page
  - Integrated service/data access via CDAWeb Plus

- CDAWeb Plus presents detailed resources as if a common set of CDAWeb-like datasets
  - File retrieval from SPDF, NSSDC, external sites
  - Graphics from CDAWeb and SSCWeb
  - Links to information and external data/services

- Note: in addition to the direct interactive user interfaces shown, these services are increasingly available to external clients and applications via webservices APIs
Highlight:
Redesigned SPDF/SECAA website is now live

- NASA Look and Feel
- Shows full range of SECAA activities
  - Data & Orbits: services vs. data source
Highlight: 
Beta Release of CDAWeb Plus Now Public

CDAWeb Plus: Multiple Sources

- Dataset selection by
  - Region(s)
  - Name(s)
  - Instrument Type(s)
  - Year(s)
  - Search string
- “OR” within each
- View and select together, all sources at the same time

Graphics Etc from CDAWeb and SSCWeb via Webservices

- Previous/Next times
- Plot etc options only if “variables” selected

File Download in Parallel from Multiple, Distributed Sites

- “Readme’s” built from assigned links
- Files are downloaded in folders by dataset

- Note: These figures are from two Spring 2005 AGU papers on SECAA services and their technical implementation
Work In-Progress

• **SECAA’s 1st priority to maintain service levels and existing data flows**
  - Significant ongoing monitoring, maintenance, and QC of data, s/w and products

• **Replacing CDAWeb’s Hardware**
  - CPU: New server now in-house; System configuration and testing has begun
  - Disk: New RAID array has been ordered, with an expected delivery date in July
  - Backups: system has been identified (based on newest LTO-3 tape technology)
  > ...

• **Continuing refinements to CDAWeb Plus interface and supporting metadata**
  - Combination of known work or issues that remained in opening the new interface for user beta access, plus an anticipated need for some work as user comments are received

• **Sample new and updated data sets in progress**
  - Final testing on several Polar and other datasets
  - First data from TIMED SABER for CDAWeb
  - Updated Geotail MGF data

• **Science Advisory Group**
  - Goal of a Fall 2005 meeting