

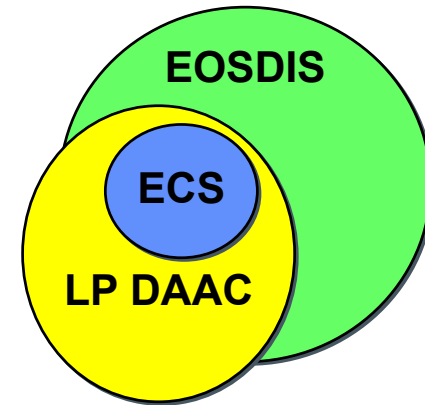
The Land Processes DAAC DAAC Management

2/3/03

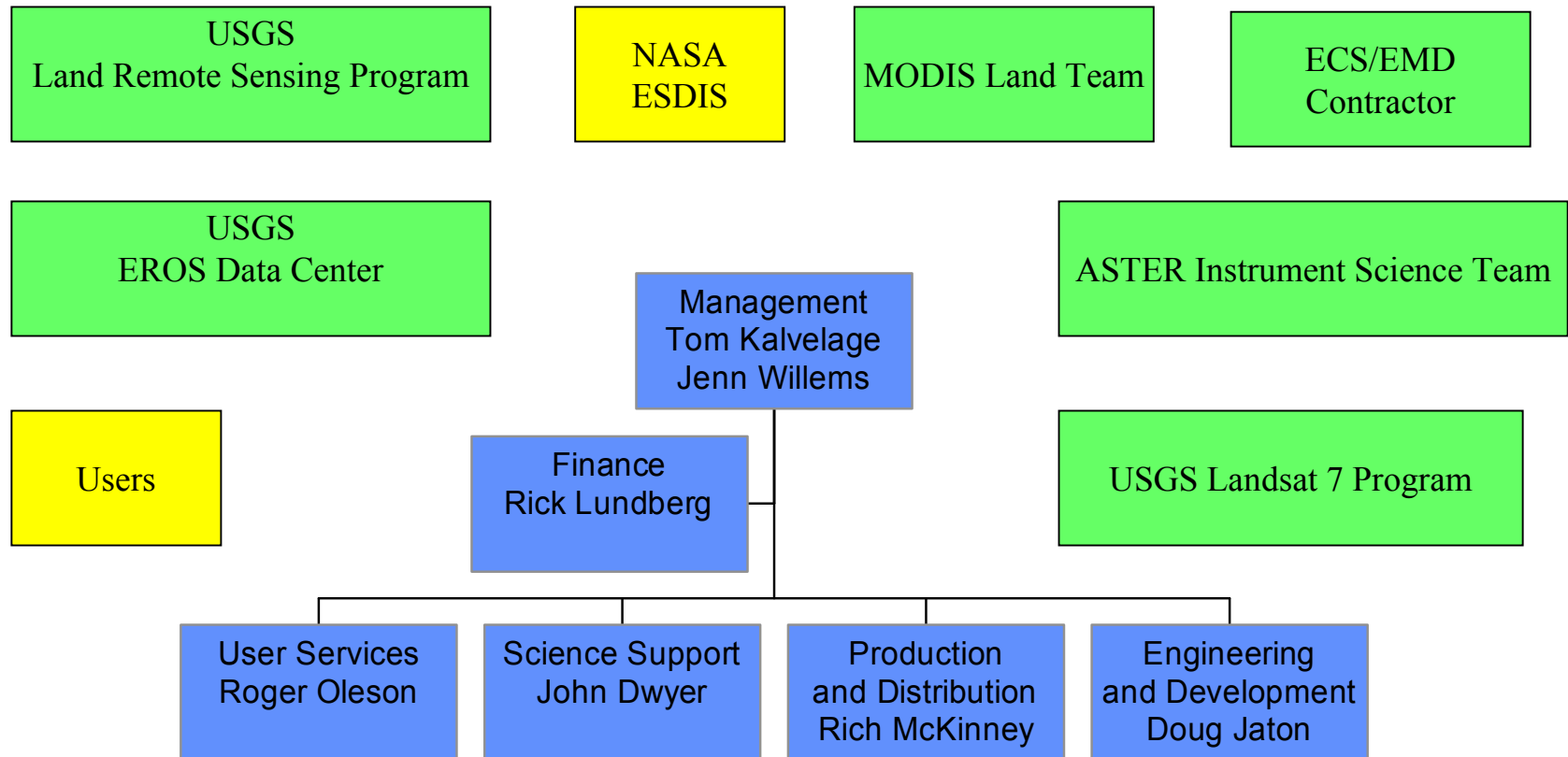
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Highlights

- ◆ 1988 NASA and USGS sign an agreement.
- ◆ 1994 LP DAAC goes operational.
- ◆ 1999 “Year of getting ECS* to work and not fail”
 - April 15 - L7 launches
 - August 23 – L7 data goes public
 - December 18 – Terra launches
- ◆ 2000 “Year of stabilizing and expanding ECS”
 - August 4 – Terra MODIS data goes public.
 - November 10 – Terra ASTER data goes public.
- ◆ 2001 “Year of improving EOSDIS functionality”
 - March 27 – Hard media available.
- ◆ 2002 “Year of data access and user support”
 - May 4 - Aqua launches.
 - December – Data Pool and ASTER Browse Tool available.
- ◆ 2003 “Year of going operational, expanding EOSDIS”
 - January 15 - MODIS V4 (4X actual vs 2.5X spec'd) available.



Organizational Structure



ECS M&O Contract

- ◆ Prior to Nov 1, 2002, the EOSDIS Core System (ECS) Contract supported 60+ FTE at the LP DAAC.
- ◆ Through the month of October, 2002, all but 6-7 FTE transitioned to new EDC support contractor, SAIC.
 - Schedule was tight, people were nervous.
 - Management had spent a lot of effort planning the transition.
 - Transition was stressful but successful; no one left behind.
 - Cost information is still incomplete, but so far, so good.
- ◆ Remaining 6-7 'ECS Extension' staff to transition to EOS Maintenance and Development (EMD) contract in FY03.
- ◆ New relationship with ECS/EMD being worked out by staff, still productive and successful.

ECS and “Synergy” Evolution

- ◆ ‘Heritage’ ECS (a.k.a. part of Version 1), reviled as being monolithic, is seeing fewer upgrades and less emphasis.
- ◆ External systems receiving the bulk of attention, at the DAAC they are (described later):
 - Synergy systems (annual earmark funding) such as Data Pools (closely associated with ECS, but separate),
 - EOS Data Clearinghouse (ECHO).
 - Custom clients and DAAC unique enhancements.
- ◆ Synergy is the system most likely to succeed or subsume ECS.
- ◆ Strategic vision for EOSDIS still unclear (see later pitch on strategic planning).

Summary of FY03 Workplan

- ◆ Budget from NASA is roughly \$10M/year today, possibly \$9M/year or so in a week or two (more on that later).
- ◆ Focus in current work plan is on outreach, improving user tools and access, characterizing users, and adding functionality to EOSDIS (not just the DAAC).
- ◆ Authorized today for about 90 FTE, currently running at ~85 due to cost containment.
- ◆ Additional cuts and attrition may result in further reduction in staff and changes in goals.
- ◆ Primary task in FY03 is just to keep huge data management work going to serve users (in FY02, distributed over 200TB of data, 2,000,000 products, 50 product lines, etc).

Summary of FY03 Workplan

- **Other items of note include:**

- ◆ LTA transfer work
- ◆ New Server setup
- ◆ Traffic Cop installation
- ◆ Network Security upgrade
- ◆ Operations Reduction Effort
- ◆ Data Pools Upgrades
- ◆ ECHO integration
- ◆ ASTER Browse Tool upgrade
- ◆ MODIS Data Pool Tile Based Client
- ◆ HEG Tool (subsetter) validation
- ◆ LDOPE Tool Upgrades
- ◆ MODIS Reprojection Tool Fixes
- ◆ Data Rate Increases
- ◆ Billing and Accounting
- ◆ Seamless User Registration
- ◆ ASTER L1B Production
- ◆ HEW Tool
- ◆ Data Pools/GIS
- ◆ Metrics Upgrades
- ◆ EDGRS Troubleshooting/Integration
- ◆ O&M LAN Takeover
- ◆ Reconciliation with ECHO
- ◆ ANSUR Fixes
- ◆ EDG 3.4/3.5
- ◆ ECS Drop Installs
- ◆ Data Deletion Tool DUE
- ◆ Ops Monitoring Tools
- ◆ Shopping Cart Upgrade (for clients)



Summary of FY03 Workplan

- ◆ Current/new NASA budget is impacting the LP DAAC.
 - In October, told to contain costs, plan for possible 15% funding cut.
 - Last week, told to submit plans for a near-certain 10% (best case) - 18% (worst case) cut. Major items to get to 10-13% cut:
 - ◆ Don't fill 6 positions currently vacant, do without staff where possible.
 - ◆ Severely restrict training, travel, hardware, etc.
 - ◆ Eliminate almost all outreach.
 - ◆ Stop purchasing AVHRR data for overlap with MODIS.
 - ◆ Begin charging full cost to users for V0 data.
 - ◆ Stop client and tools development.
 - ◆ Let systems run unattended over the weekends.
 - ◆ Stop distributing data via hard media.
 - Still working ways to reach worst case, and alternatives to stopping hard media distribution. Ideas are welcome.

Summary of FY03 Workplan

- ◆ New workplan direction:
 - there will be strong pressure to cut budgets in the future.
 - workplans will be built around efficiency metrics; e.g. users supported per dollar, or orders filled per staff.
- ◆ Together, this strongly encourages the DAAC to:
 - Short term: reduce costs, instead of increasing functionality.
 - Long term: expend engineering resources on reducing costs, rather than increasing functionality, or supporting new systems.
 - avoid acting as pathfinder for new systems (which decreases likelihood the system is ever used successfully anywhere).
- ◆ Overall, this is the normal NASA approach to system life cycles, and ESDIS is trying to deal with it as best they can.

Performance

Cost