



# Director's Report

## Mohan K. Ramamurthy

May 19, 2003

Unidata Policy Committee Meeting  
National Science Foundation  
Arlington, VA



- ❖ Jeff Glidden, a student assistant on the Plaza project, left in March to begin employment with *Accenture*.
- ❖ A new Software Engineer III position announced for Russ's NASA-AIST Project
- ❖ Two new students assistants will come on board this summer to work on NLDM and netCDF
- ❖ A part-time administrative assistant may be hired this summer to alleviate pressures on the admin group



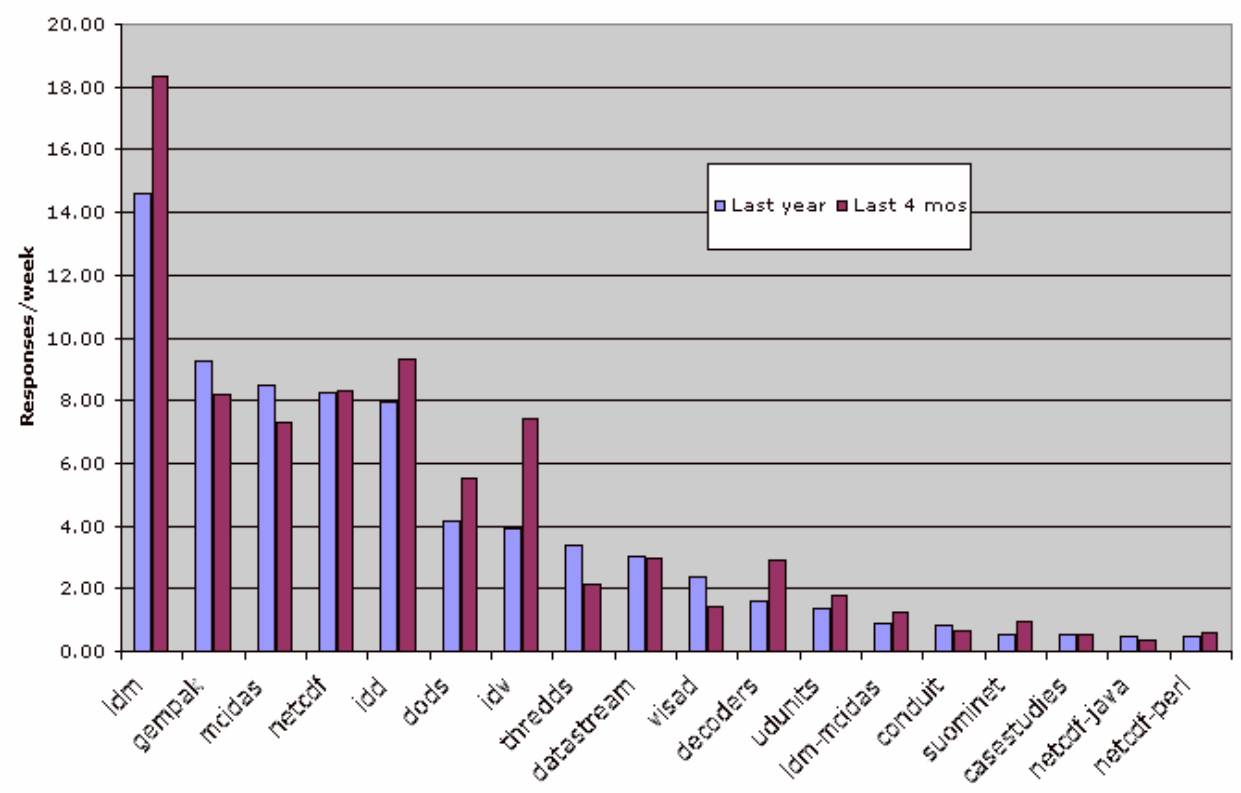
- ❖ Expanding Horizons: Using Environmental Data for Education, Research, and Decision Making
  - ❖ June 22-27, 2003
- ❖ Planning well underway
- ❖ Registration numbers are lower than corresponding figures for previous workshops
  - ❖ Main Reasons: tight budgets and scheduling conflicts
- ❖ Workshop program and other details will be provided this afternoon





- ❖ Total pool, including UCAR overhead: \$203K
- ❖ Deadline was May 05<sup>th</sup>
- ❖ 16 proposals were received, one was international.
- ❖ More later...





- ❖ Avg last year: 76.5 responses/week
- ❖ Avg. last 4 months: 85.9
- ❖ Support load is increasing
- ❖ Support required for LDM, IDD, DODS, and IDV continues to grow
- ❖ Support for IDV is now comparable to that for GEMPAK and McIDAS.

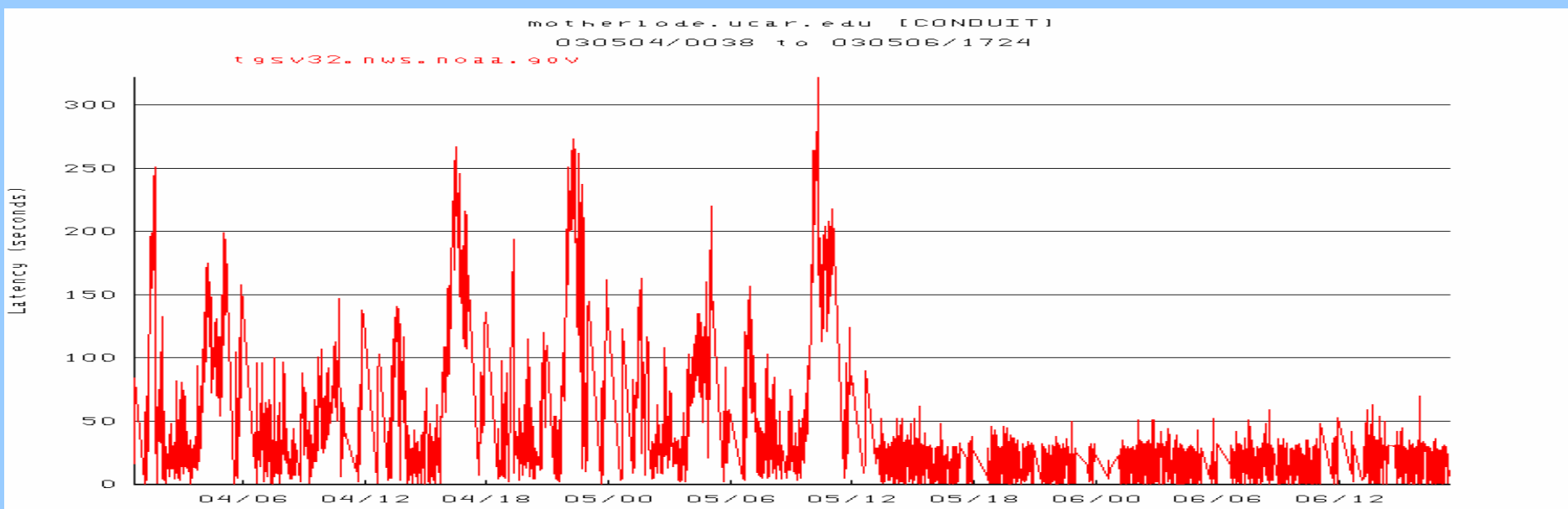
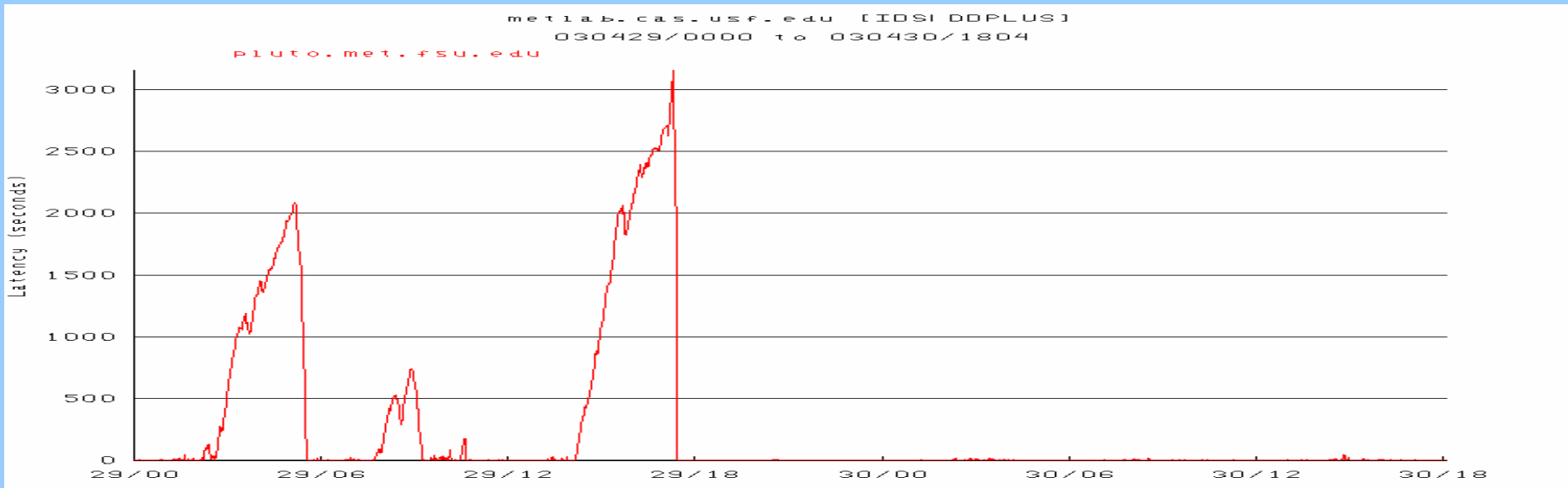


- ❖ The UPC hosted the OpenDAP/DODS Developer's Workshop during 19-21 March 2003 (in the midst of the 100-year snowstorm)
- ❖ The UPC staff are continuing to work with NWS on distribution of Level II data from the NEXRAD network.
- ❖ Linda Miller is coordinating a joint USWRP CONDUIT-CRAFT meeting, which is scheduled for 29 May, 03.



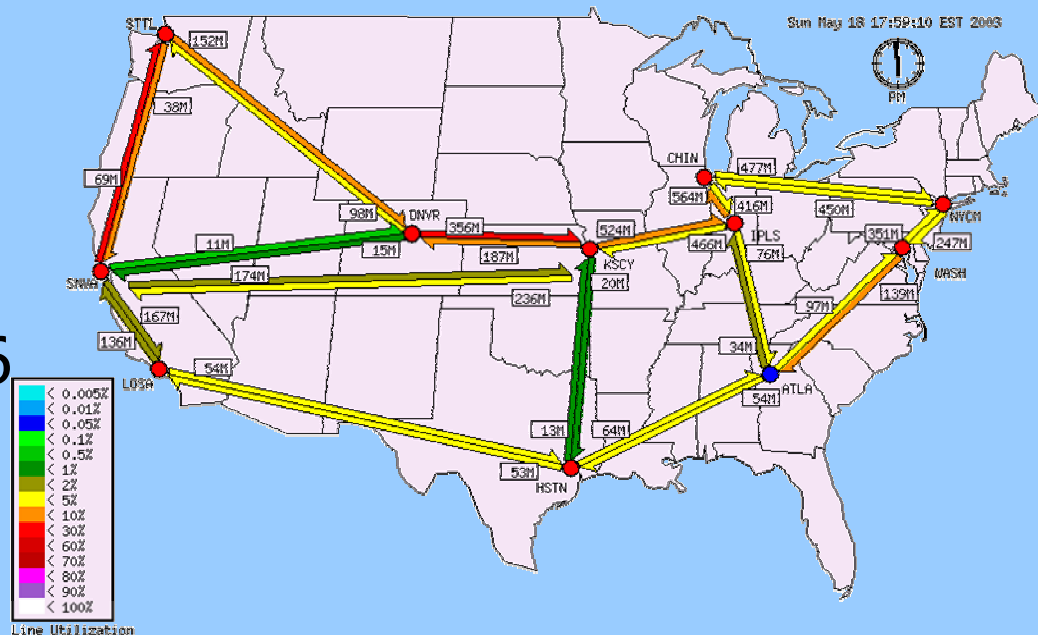


# LDM-5 Vs. LDM-6 (released 9 April)





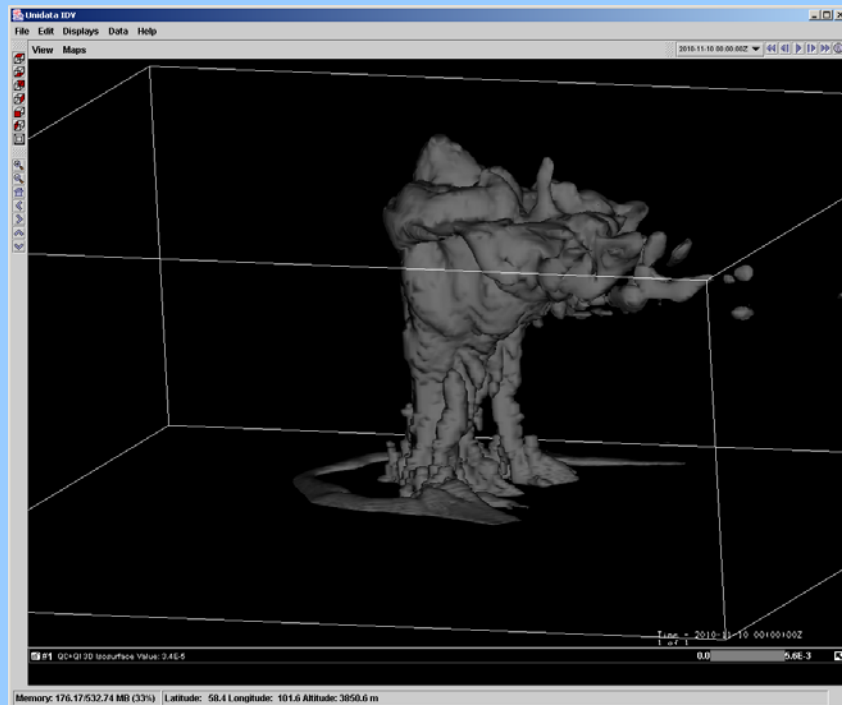
- ❖ IDD/LDM uses more of the Internet2 than any other *advanced application*
- ❖ Approximately 5 Terabytes of data and 6 billion packets transmitted last week!
- ❖ Amount varies with weather
- ❖ By far, Unidata is the largest user of bandwidth within UCAR
  - ❖ almost 50% of outbound traffic, and 15% of inbound traffic is Unidata related







- ❖ GEMPAK: 5.6.j released on March 31<sup>st</sup>
  - ❖ Supports FreeBSD
  - ❖ Release ported to Mac OS X
  - ❖ Version 5.6.k being release engineered
- ❖ McIDAS: Version 2002b released in January
  - ❖ As of April 30<sup>th</sup> 89 sites have downloaded version 2002.
- ❖ IDV: The first non-beta released planned for mid-June
  - ❖ A steering committee is being formed to guide development; it will report to the Users Committee
  - ❖ The UPC staff has had meetings with WRF developers to improve netCDF I/O so that the IDV can visualize WRF output





- ❖ Panel met at NSF on March 26-27
- ❖ Ad-hoc mail reviews: 6 out of 7 rated the proposal as Excellent; 1 rated it Good
- ❖ The UPC was asked to respond to five questions that came out of the ad-hoc mail reviews; an additional question was added when the panel began deliberations.
- ❖ No written response was required, but one was prepared
- ❖ **Recommendation: "The unanimous finding of the panel is that the Unidata Program Center program be supported as fully as possible by NSF for the years 2003-2008"**

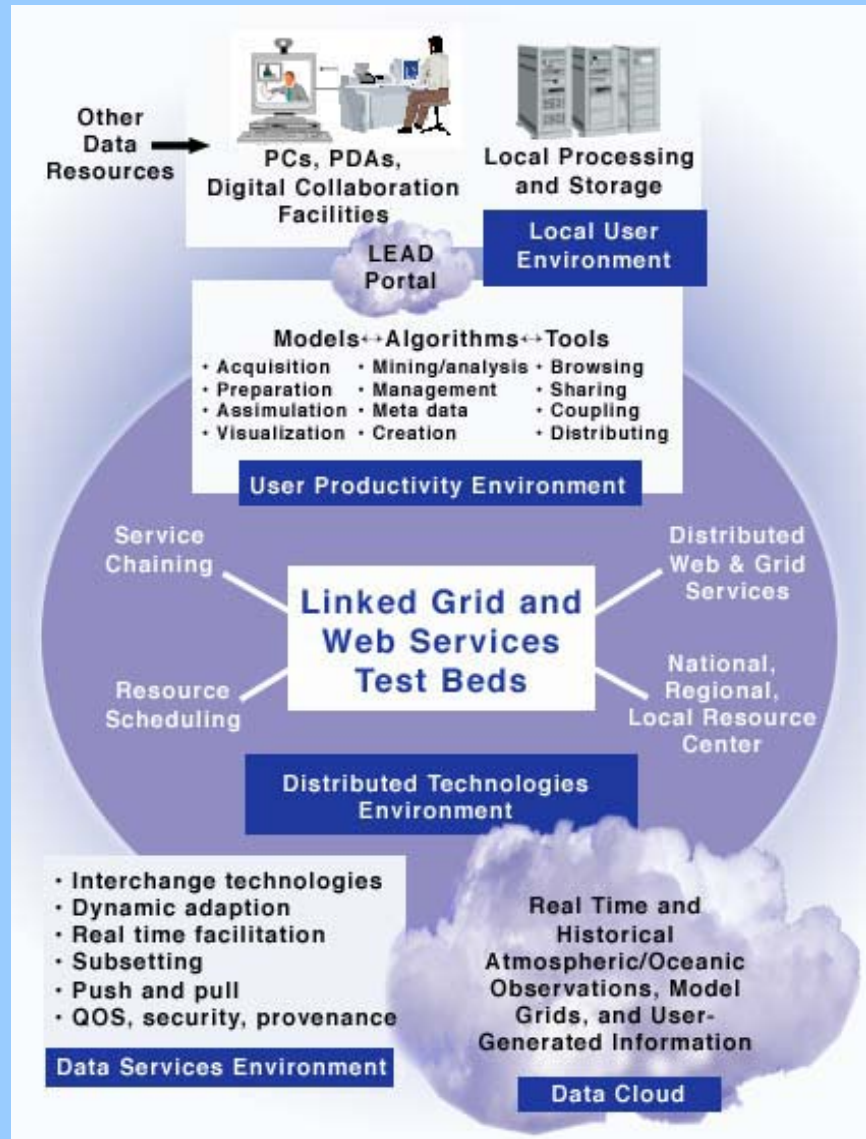


## Submitted since February meeting:

- ❖ NSF/DUE: “THREDDS Second Generation”
  - ❖ Focus: Connecting People, Documents and Data
  - ❖ NSDL Collections track; Two-year project
  - ❖ Involves many collaborators
  - ❖ More in Ben’s presentation
  
- ❖ NSF/ITR: “Linked Environment for Atmospheric Discovery (LEAD)”



- ❖ Lead PI: Kelvin Droegemeir, OU
- ❖ Institutions: OU/CAPS, U. Illinois/NCSA, U. Indiana (CS), Millersville U., Howard U., and Unidata
- ❖ On-demand, real-time, mesoscale modeling using a Grid and Web services environment.
- ❖ Many new services will be developed, including data assimilation, data mining, on-the-fly cataloging and publishing of data, GIS integration, advanced visualizations, etc.
- ❖ Unidata's role: Extend Unidata tools and technologies (LDM, netCDF, IDV, and THREDDS) to Grid and Web services environment.





## ❖ **Successful proposals:**

- ❖ NASA/AIST: "Merging the NetCDF and HDF5 Libraries to Achieve Gains in Performance and Interoperability"

  - ❖ One of 21 selected from a field of 200 proposals submitted

  - ❖ One of 6 from universities

- ❖ NSF/GEO: DLESE Data Services (in partnership with TERC)  
(Not official yet, however)

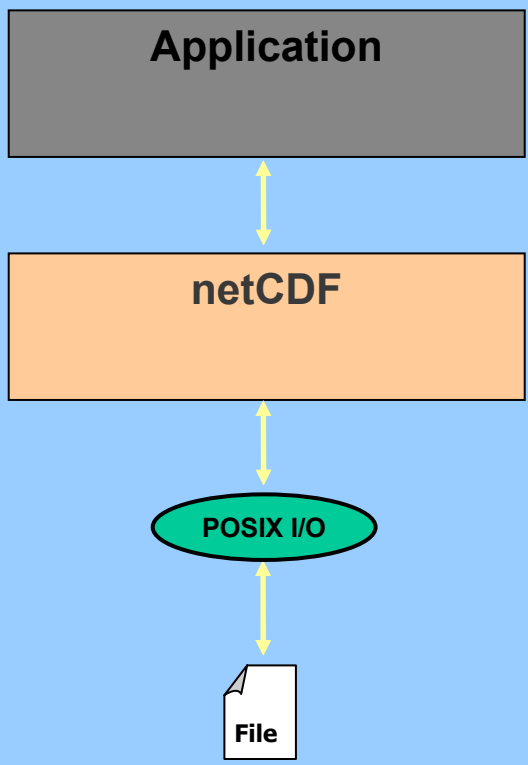
## ❖ **Still awaiting decision on:**

- ❖ NASA/REASON: DODS/OpenDAP related (with NOAA/PMEL)

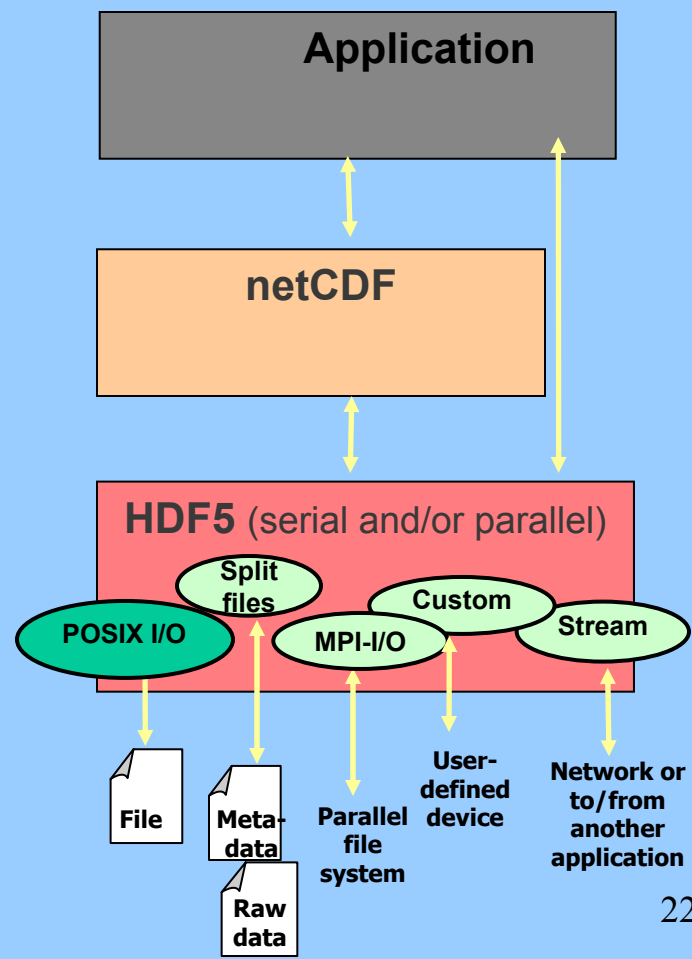
- ❖ NASA/REASON: DODS/OpenDAP related (with U Rhode Island)



## Current Implementation



## Proposed Implementation





- ❖ Community relations : Green
- ❖ Data sources : Green
- ❖ IDD : Green
- ❖ Software Development : Green
- ❖ Collaborations : Green
- ❖ Staffing : Green
- ❖ Space : Yellow (Staff split on two floors)
- ❖ Finances (Core) : Green (More in budget report)
- ❖ Non-core funding : Red (More in budget report)
- ❖ Case Studies : Red (Funding under the THREDDS endeavor a possibility)