**Unidata
Director's Status Report**

Unidata Policy Committee Meeting
May 2002
Ben Domenico

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Staffing

- Jeff Glidden, new student assistant for Online Community Center (aka PlazaElectra, DataPub, E-cafe)
- Stefano Nativi, returning for the Summer on sabbatical from U. of Florence, working with us on THREDDS
- An additional system administrator is being hired

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Extending Success

- The Heartbeat of the UPC
  - *Administration*
  - *System Administration*

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Coordination

- Coordinating with UCAR/NCAR groups
  - *ITR KEG proposal*
  - *SCD Community Data Portal (motherlode) server*
  - *DLESE/NSDL, THREDDS connection to discovery systems*
  - *IHOP support with ATD/RAP/JOSS*
  - *Suominet with UNAVCO*
  - *Societal impacts/GIS with ESIG*
- Coordinating outside UCAR, e.g.,
  - *LEAD ITR proposal, CMU NSDL proposal*
  - *CRAFT, CONDUIT with NWS*
  - *ESIP Federation – strong NASA connection*
  - *THREDDS data provider and tool developers*

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LEAD Proposal Collaborations Diagram

WRF

University of Illinois at Urbana-Champaign

Hydrology Expedition Team

University of Alabama in Huntsville

Unidata Community:
>130 Universities, Federal Laboratories, and NWS Centers.
Involving tens of thousands of students each year.

Radar Data Mining

WRF Model Hydrology Expedition Team

IDD, THREDDS, SuomiNet

IDD, CONDUIT, HDF, NetCDF SuomiNet, Unidata Governance VGEE Visualization

WRF Distribution Data Management

Real Time Weather Data & Model Grids; Analysis and Display Applications

WRF
University of Oklahoma

IDD, CRAFT, THREDDS, CONDUIT, SuomiNet

UCAR Unidata Program

WRF
Howard University

IDD

IDD, Unidata Governance SuomiNet

IDD, DLESE

IDD

Millersville University

University of Colorado

WRF
Indiana University

Recent Progress

- 1Km resolution NEXRAD Mosaics
  - *10 minute time intervals for most*
  - *Viewable in all packages: McIDAS, GEMPAK, MetApps*

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National 1Km Radar Mosaic

1Km Radar Zoom

Recent Progress continued

- IDD (and user base) expansion continues *(tab 15):*
  - *165 institutions/292 hosts (up from 155/268)*
  - *Volume nearly doubled since February*
  - *Canadian GEM, 38 CRAFT NEXRADS*
  - *Increased queue sizes beyond 2GB*
- Positive community survey results (analysis in separate report)

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Recent Progress continued

- Data access
  - *IDOC (tab 12): aggregation server in beta test, connection with THREDDS metadata tools strengthened*
  - *Four new Case Studies (tab 11) available, total of 40 now (future NWS funding uncertain)*
  - *38 NEXRAD (level-2) sites now on CRAFT (tab 13) IDD*
  - *Enthusiastic THREDDS (tabs 8, 22)Technical Task Force (T3F) workshop (37 opinionated, creative, cooperative, and productive participants)*
  - *Suominet (tab 19) deployment well underway: data being disseminated AND COLLECTED using IDD/LDM technology*
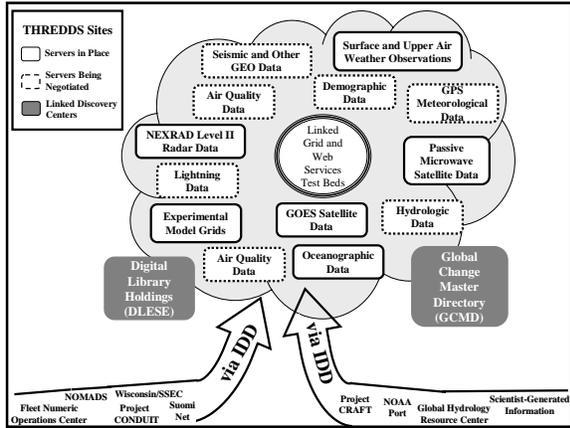
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THREDDS Tech Task Force

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Recent Progress continued

- Proposals
  - *ITR LEAD (Linked Environments for Atmospheric Discovery, Kelvin Droegemeier, Oklahoma)*
  - *ITR KEG (Knowledge Environment for Geosciences, Tim Killeen)*
  - *NSDL Services (David Yuran, Carnegie Melon)*
- BAMS articles on Unidata workshop continue
- Presence at ESIP Federation meetings

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Slide 1: THREDDS Sites Diagram

THREDDS Sites
- Servers in Place
- Servers Being Negotiated
- Linked Discovery Centers

Seismic and Other GEO Data

Surface and Upper Air Weather Observations

Air Quality Data

Demographic Data

GPS Meteorological Data

NEXRAD Level II Radar Data

Linked Grid and Web Services Test Beds

Passive Microwave Satellite Data

Lightning Data

Experimental Model Grids

GOES Satellite Data

Hydrologic Data

Digital Library Holdings (DLESE)

Air Quality Data

Oceanographic Data

Global Change Master Directory (GCMD)

via IDD

via IDD

NOMADS Fleet Numeric Operations Center

Wisconsin/SSEC Project CONDUIT

Suomi Net

Project CRAFT

NOAA Port

Global Hydrology Resource Center

Scientist-Generated Information

Slide 15: Recent Progress continued

- Java Development (tabs 14, 17): MetApps-based IDV deployed at IHOP
- Online Community Center (tab 18) New technological underpinnings

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Slide 16: Overall Status Summary

- User Relations — Green
- Data Sources — Green
- Data Distribution — Green
- Current Software — Green
- Java Software — Green
- Scheduling — Green
- Finances — Green*
- Staffing — Green
- *Case Studies — Yellow

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Slide 17: Problem/Option Analysis

- Case studies funding questionable (yellow):
  Have sufficient funds to carry through next fiscal year
  - Option: Cease work on case studies immediately
  - Option: Continue until funds run out
  - → Continue but seek User Committee input on direction

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