

NCAR: Users Needs for CFSSR

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CISL Research Data Archive

How CFSR is Used

- Force a wave model
- Force MITgcm and other ocean models
- Initialize WRF
- Regional modeling over Africa

How CFSR is Used

- Investigating water budget closure of this reanalysis
- Wind energy research
- Storm tide study
- Terms of Use?
 - Request information on how data will be used

Data That Users Need

- Analyses that don't currently exist
 - 2m temperature
 - 10m winds
 - or good explanation of how already existing products fit the need
- “Hub-height” winds
- Highest available resolutions

Information That Users Need

- Model/science questions
 - “What is hybrid level 1?”
 - “How is ocean heat content calculated?”
- Technical questions
 - “The gridcell centered at 90N covers 88.75 to 91.25. Isn’t this awkward?”

Meeting the Need

○ Authoritative consultation

■ Who to contact?

- we can answer the technical, not so much the model questions
- rapid response is an expectation

■ Centralized clearinghouse

- FAQs, discussion forums

■ RSS feeds, etc.

- push information about new data events to users

Access That Users Need

- Subsets of the data
 - I just want
 - these parameters, this date range, this area of the globe
 - Timeseries of single grid point
- Formats that work with my tools
 - e.g. – netCDF
 - GrADS

Meeting the Need

- Methods for subsetting/conversion
 - Interfaces that allow fast and easy selections
 - Scripts that can be embedded in programs
- Computing/databases
 - Make data available quickly (instantaneously to few hours)
- Accurate/standard content metadata

Access That Users Need

- Ability to discover and access the data for a long time
 - Data will be referenced in publications

Meeting the Need

- Digital Object Identifiers (DOIs)
 - Assign to each version
 - Reference-able
 - Traceable
- Archive best practices
 - Good metadata
 - Backups
 - Records of data requests – re-creation

End

<http://dss.ucar.edu/pub/cfsr.html>

