



NCAR

4DWX OTM

4D Weather On the Move

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Goals:

- Increase efficiency of ATEC and UCAR personnel
- Improve range support; eliminate bottlenecks
- Better utilize ATEC/UCAR computational resources

Benefits:

- Easier to get the data you need
- Faster response to requests
- Improved system performance due to more efficient cluster management
- Support for ensemble models



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Components:

- Model Manager: manage model runs
- MetVault: manage data storage
- User Interface: provide web browser access



MetVault



Features:

- Web-based user interface
- Command line interface for automated retrievals
- Portable
- Layered storage
- Secure, private collections: data storage and visibility based on userid/password



MetVault



User functions:

- Search for datasets
- Define and apply services:

Extract subsets

- vertical profile
- cross section
- time series
- etc.

Produce derivatives: new variables, climatographies

Transform data to different format

Download results to workstation