

UNC Information Technology Services & iRODS

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Introduction to ITS RECO

- Provides HPC infrastructure to support the needs of UNC Chapel Hill's faculty and staff
 - High-end clusters: Topsail, Emerald
 - Upcoming: Kure
 - Storage: NAS, GPFS/SONAS, SAM-FS
- Addressing needs identified by a recent University task force
 - Long-term storage, curation
 - Dissemination of research data



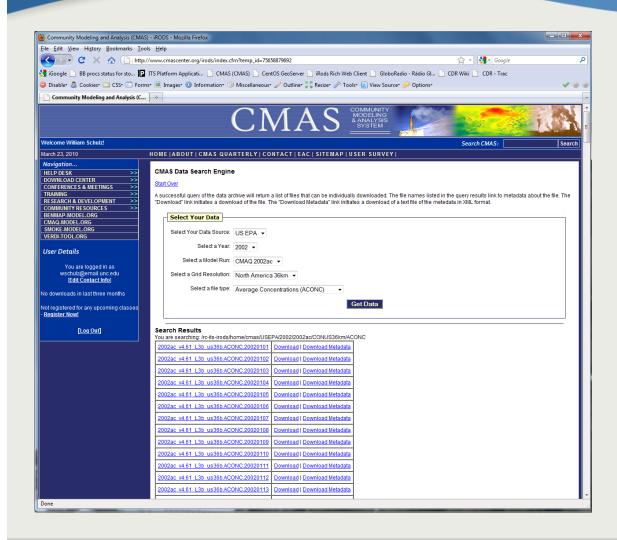


Implementing iRODS

- Hosting four (4) production servers
- Primary ITS iRODS:
 - SunOS, Oracle ICAT
 - SAM-FS archive class
 - GPFS cache class (RHEL 5)
- For RENCI NARA prototype: SAM-FS archive resource
- Carolina Digital Archive: SAM-FS archive resource



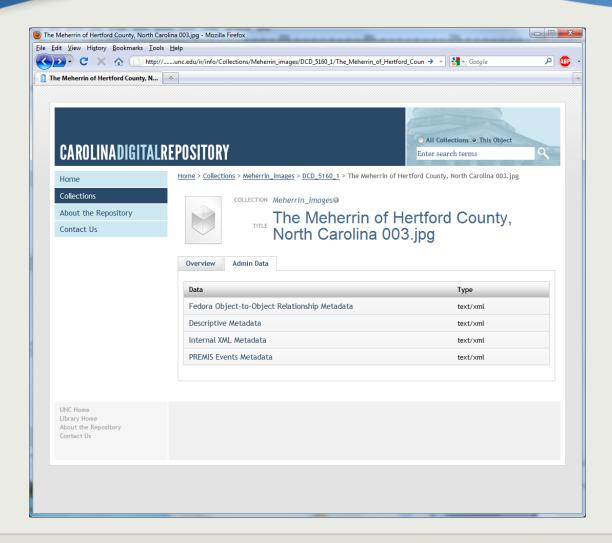
Institute for the Environment's CMAS



- Federal air quality data
- Extensive use of metadata
- Jargon Java API for queries
- Some PHP on server side



Carolina Digital Repository



- University Library
- iRODS as data store, Fedora Commons handles data models
- ITS hosting archive resource (tape)

Thank you!

