

Natural Systems Data Management Methods

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Abstract

The USGS-WRD Database Development Team in Wisconsin develops and supports projects that manage natural systems data for a variety of state, local, and federal water resources agencies. This session will present an overview of the technologies and methods currently being used by the team. A summary of the team's development and deployment philosophy will be discussed, with a focus on strategies to provide high-end technology solutions on limited budgets. Oracle-based systems will be reviewed, such as the 9i RDBMS, the Internet Application Server, Oracle Portal, and ad-hoc query tools such as Oracle Discoverer. In addition, scientific graphs using Visual Numerics and geospatial-based access via MapInfo Map Extreme Java will be described. All systems are web-enabled, and will be presented live in the USGS booth during the conference.