

Joint Workshop for WATERS Network Test Beds and CUAHSI Hydrologic Information Systems

November 14 – 17, 2006

Austin, TX

Draft Version 4.0

Meeting Goals. CUAHSI HIS is rolling out version 1 of its system to discover, to deliver, and to publish data using a common technology from Federal “mission” agencies and the academic research community. The potential benefits of this open and extensible system are tremendous for accomplishing our research more effectively and for transforming the way in which we do our research to become more interdisciplinary and more open. For environmental observatories to be effective, the observatories must attract the interest of scientists from the broad community, and a data system is critical for accomplishing that goal.

As the HIS project is entering its second phase, 11 WATERS Network test bed projects have also been awarded. These are a diverse set of projects, each considering some aspect of observatory design and operation. The people involved with these test beds form a natural “beta testing” group for the HIS software to determine how effective and useful it is and to recommend changes before its final release. Ultimately, for a data system to be accepted, it must be useful to the individual scientist in accomplishing his or her goals.

Therefore, the objectives of this workshop are the following:

- To understand the science goals of the test bed projects
- To introduce the concepts and the capabilities of CUAHSI HIS version 1.0
- To determine effective engagement strategy between Test bed Projects and CUAHSI HIS Team
- To identify opportunities to coordinate activities among test beds, other proto-observatories, and CEO:P Projects

Agenda

Tuesday, November 14

6:00 pm. Meeting of Coordinating Committee, NSF Program Officers, CUAHSI and CLEANER Project Office personnel (dinner following AmeriSuites Hotel)

Wednesday, November 15

8:00 am	Registration
8:30 am	“The Role of Test Beds in Development of the WATERS Network” Pat Brezonik and Doug James
9:15 am	Questions and Answers
10:00 am	Break

Theme 1. Science Goals of the Test Bed Projects

10:15 am “The Digital Continent: A Vision of Cyberinfrastructure for Environmental Observatories” Rick Hooper

(Each talk limited to 10 minutes and 3 PowerPoint slides. Speakers should allow a few minutes for questions. Projects are encouraged to bring a poster to the workshop that will be displayed for the duration of the workshop. **Note** that the Corpus Christi Bay test bed will be presented on Thursday in a more extended example of HIS application.)

10:40 am Crown of the Continent (MT) Test Bed
10:50 am Bear River (UT) Test Bed
11:00 am Sierra Nevada/San Joaquin (CA) Test Bed
11:10 am Clear Creek (IA) Test Bed
11:20 pm Minehaha Creek (MN) Test Bed
11:30 pm Susquehanna River (PA) Test Bed
11:40 pm Chesapeake Bay (PA/MD/VA) Test Bed
11:50 pm Chesapeake CEO:P project

12:00 n Break for Lunch/Poster Viewing

1:30 pm Baltimore (MD) Test Bed
1:40 pm Albemarle Sound (NC) Test Bed
1:50 pm Santa Fe (FL) Test Bed
Other Proto-observatory Efforts
2:00 pm SAHRA Field Sites (AZ/NM)
2:10 pm Illinois River Basin (IL) Water/Carbon Project
2:20 pm HydroKansas ARM Site (KS)
2:30 pm Sevilleta LTER Site (NM)

2:40 pm Break and Poster Viewing

Related NSF Cyberinfrastructure Projects

3:40 pm ITR Hydro-NEXRAD Project
3:50 pm COMET: Coast-to-Mountain Transect
4:00 pm Kepler Scientific Workflow System
4:10 pm Cyber-Environmental Portal
4:20 pm A Data-Intensive Cyberinfrastructure Component for Coastal Forecasting and Change Analysis
4:30 pm Comments of Coordinating Committee
 Open Discussion
5:00 pm Adjourn

Thursday, November 16.

8:00 am Coffee

Theme 2. CUAHSI Hydrologic Information System

8:30 am Web services and the National HIS (the HIS team and Dean Djokic from ESRI) Project presentation and live demos. Distribution of user surveys.

10:00 am Break

10:30 am Sensor networks, ODM and the Bear Creek testbed (Tarboton and Horsburgh)

11:00 am Workgroup HIS at the Corpus Christi Bay Test bed (Maidment)

11:30am Corpus Christi Bay Testbed Cyberenvironment: CyberInfrastructure from NCSA's ECID Project (Minsker)

12:00 noon Lunch

1:00 pm **Break-out 1: Test-bed PIs: discussion of collaboration opportunities**

Break-out 2: Test-bed Information Managers: Getting started with HIS

5:00 pm Adjourn

Friday, November 17

8:00 am Coffee

Theme 3. Towards Digital Observatories: Where to from here?

8:30 am Reporting from Break-out groups

9:30 am Discussion of coordinating HIS and Test Beds

10:30 am Break

10:45 am Finalizing strategy for engagement

12:30 pm Adjourn