**NorEaST Web Portal Demo-User Testing and Development**

**USGS WI Water Science Center, Dec 9th– 10th, 2014, Middleton, WI**

**AGENDA *– (****CENTRAL Time)*

**Meeting Organizers:**

Jana Stewart (PI), US Geological Survey, WI Water Science Center
Austin Polebitski (PI), University of Wisconsin – Platteville

Dana Infante (PI), Michigan State University

Dave Armstrong, (PI) US Geological Survey, New England Water Science Center

Jim McKenna (PI), US Geological Survey, Great Lakes Science Center

Yin-Phan Tsang (Post-Doc), Michigan State University

**For Questions - Contact:** Jana Stewart (608-821-3855, jsstewar@usgs.gov)

**Meeting Objectives:**

* Provide overview of stream temperature monitoring protocols and data management
* Introduce and demonstrate the NorEaST Stream Temperature Web Portal
* Conduct User testing of the NorEaST Web Portal and gain feedback
* Demonstrate ways to automate data analysis and quality assurance of data
* Demonstrate and discuss applications of continuous stream temperature data
* Discuss leveraging NorEaST web portal with other efforts
* Discuss moving NorEaST into the future (development needs, funding mechanisms/models, other site types, expanded geography, etc.)

**Tuesday, December 9th**

12:30 Set-up - ***( CENTRAL Time)***

1:00 Welcome, Logistics, and Introductions (Jana Stewart, USGS)

1:20 NorEaST Meeting Objectives and Overview (Jana Stewart, USGS)

1:40 Overview of Regional Monitoring Network Stream Temperature Protocols

(Jen Stamp, TetraTech)

1:55 USGS Stream Temperature Monitoring (Krista Hood, USGS)

2:10 NorEaST Demo (Jana Stewart, Blake Draper, Kathy Schoephoester, USGS)

2:40 Break

2:55 NorEaST Hands-On (add site, event, upload data, graph, download) (All, NorEaST team)

3:55 R-Scripts and Web Services Demo – (Yin-Phan Tsang, MSU)

4:15 R-Scripts –Hands-on (All, Yin-Phan Tsang, MSU)

5:10 NorEaST Discussion and Wrap-up

5:20 Adjourn

6:30 Group Dinner –

Sprechers Pub, 1262 John Q Hammons Drive <http://sprecherspub.com/madison/>

203-6545

*NorEaST Web Portal User Testing– USGS WI Water Science Center, Dec 9th– 10th, 2014 - continued*

**Agenda (continued)**

**Wednesday, December 10th**

7:30 Coffee ***( CENTRAL Time)***

8:00 Lessons Learned: Year-Round Stream Temperature Data Collection (Matt Diebel, WDNR)

8:20 NorEaST Thermal Metrics and Fish Thermal Relations (Yin-Phan Tsang, MSU)

8:40 Using shared tools to automate the QAQC of environmental sensor data (Jordan Read, USGS)

9:00 A Community Approach to Sensor Data Sharing (Dave Blodgett, USGS)

9:20 Overview of Regional Monitoring Networks and Data Management Pilot

(Britta Bierwagen, USEPA - ORD)

9:40 Discussion – Leveraging NorEaST and Southeast visions/efforts (Jana, Dave, Britta, All)

10:00 Break

10:15 NorEast Demo (Sites on mapper, Filter, QA/QC, reports) (NorEaST team)

10:35 NorEaST Hands-on (Filter, reports) (All, NorEaST team)

10:55 Survey of Data Collectors/Providers (Austin Polebitski, UW Platteville)

* Data Collection (air/water, #sites, deployment, logger types, purpose)
* Data Standards, Protocols, SOPs
* Data Storage
* Data QA/QC
* Data Sharing Challenges and Benefits
* Connecting and Exchanging Data through web-services
* Programming Language Experience (R, SAS, MatLab, Python, etc.)
* Uses and Applications of Stream Temperature Data (WQ criteria, habitat restoration?)

11:15 NorEaST Discussion/Feedback (future needs, directions, opportunities)

* Future Development Needs
* Operating and Maintenance
* Funding Mechanisms/ Model
* Leveraging efforts
* Interest by Agencies/User Testers/Contributors/In-kind services

12:00 Closing Thoughts (All)

12:15 Adjourn

**Hands-On**

* Users need to sign up as NorEaST users prior to meeting
* Users need to install R-package prior to meeting
* Participants can bring their own data. We will provide additional test data sets
* Users should bring their own laptop for testing