**NorEaST – Stream Temperature Web Portal Demonstration and User Testing**

Meeting Overview and Logistics

*USGS Wisconsin Water Science Center, Middleton, WI,* ***December 9th-10th, 2014***

**Meeting Date:** Tuesday, December 9th (12:30 PM) – Wednesday, December 10th (12:15 PM)

**Location:** USGS WI Water Science Center, 8505 Research Way, Middleton, WI 53562 (608)828-9901

<http://wi.water.usgs.gov/about/location.html>

**RSVP Date: by November 21st** would be appreciated to help us better plan this meeting.

Please cc: Jana Stewart (jsstewar@usgs.gov) and Austin Polebitski (polebitskia@uwplatt.edu) to confirm your attendance at this project meeting. If you are unable to travel to this meeting in person and would like to attend via Webinar, please let us know so we can plan accordingly.

**Purpose:** This meeting is being organized to bring together natural resource professionals collecting continuous stream temperature data in those States that comprise the USGS Northeast Climate Science Center region (<http://www.doi.gov/csc/index.cfm> ). We will present an overview and demonstration of the NorEaST Stream Temperature Web Portal and engage interested agencies and data stewards in user testing to help us refine the web portal for data access, management, and application. We will also discuss monitoring protocols, quality assurance procedures, applications of temperature data, and share experiences in data collection.

**Who:**  We are inviting a group of natural resource professionals from the region with an interest and knowledge regarding continuous stream temperature data collection and management.

**Project Title/Funding:** This meeting is being organized as part of the “NorEaST – Stream Temperature Web Portal Demonstration and Application” project funded by the USGS Northeast Climate Science Center.

**Travel Support:** We have some funds available for travel support. Please indicate if you will need travel support as soon as possible.  Also, please complete the ***Travel Support Request form (attached)*** at your earliest convenience and coordinate with Austin Polebitski (polebitskia@uwplatt.edu) to confirm your estimated trip costs. If you can provide travel schedule details, we can help coordinate plans with other participants and airport pickup.

**Hotel Accommodations:**

A block of rooms is being held at the **Country Inn and Suites, 2212 Deming Way, Middleton, WI, 53562 (608) 831-6970** under **group code: USGS** meeting at the *Federal government rate of $89.*Reservations need to be made by each individual **prior to November 24th** in order to guarantee availability under this block. Please mention the group code when you make your reservation. <http://www.countryinns.com/middleton-hotel-wi-53562/wimiddle>

**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