

# **NADP Joint Subcommittees Meeting Minutes**

The Madison Concourse Hotel  
Madison, WI  
October 14, 2008

Greg Wetherbee called the meeting to order.

## **Meeting Rooms**

NOS/DMAS – University Room  
EROS – Conference Room 2  
CLAD – Conference Room 3 (with phone)

## **PO Update – David Gay**

Effective July 1<sup>st</sup>

Basic funding from legislature go to U instead of state (funding is decreasing)  
PO is now in the U-of-I Institute of Natural Resource Sustainability

Digital Raingage Data were presented.

Website

Programmer (hopefully) starting Nov 1  
Exclusive to web site work

MDN sites

~12 new MDN sites  
Site in Florida on the edge (urban site) – unknown future

AMoN

21 sites operating since Oct 30, 2007  
Investigating use of Alpha instead of Radiello

Atmospheric Mercury Initiative

Data on the web (2 sites, 3 years, QA'd)  
Producing graphs  
Next month, starting monthly newsletter

Equipment & QA

NCON NTN collector  
New winter collector  
Slaved collector (use raingage to open collector)

Training

Plan is to do training at Spring Meeting – NTN and MDN

Training Video in production (site liaisons collaborating)

## **E-gage and Web Site Update – Bob Larson**

57 gauges reporting

8 ready to go

40 ordered

Total = 105

### ***Current Status***

Datalogger software issue – false precip – FIXED

PDA Bluetooth problem – differences in HP software – FIXED, changing SOPs

Lots of installation support and follow up (only a couple of load cell problems)

### ***Future Work***

Continue upgrades of older raingages

Continue testing of Pluvio2 and sensors

Improve systems for transmitting data to labs

- Validation of precip data
- Upload

Develop SOPs

- Raingages operation
- Installation

## **Minutes from Spring 2008 Meeting**

Motion to approve by Chris Rogers

Second by Tom Butler

Approved.

## **Ion Exchange Resins – Tracy Dombek (CAL)**

Can be modified to do fog collection

### ***Potential to add to network***

- Improve spatial resolution
- Better evaluation of nitrate and ammonium
- Expansion of analytes such as pesticides

Comparing split analyses analyzed at CAL and IES.

So far, correlation between CAL and IES looks very good for the analytes.

## **Subcommittee/Lunch Break**

## **Subcommittee Reports – See Subcommittee Minutes**

**NOS Report – Greg Wetherbee, USGS**

**DMAS Report – Gerard Van Der Jagt, Frontier Geosciences, Inc. (HAL)**

**EROS Report – Andy Johnson, State of Maine**

**CLAD Report – Doug Burns, USGS**

## **QAAG Report – Mark Rhodes, NADP PO**

### ***Completeness Criterion #4***

Clow et al. – snowpack data – maybe we do not need to put as much emphasis on Criterion #4 as we have thought.

Recommendation from QAAG:

1. Change Criterion #4 from a “requirement” to a goal. Not meeting Criterion #4 does not eliminate sites from influencing isopleths maps. However, keep Criteria 1, 2, and 3 in place, and non-attainment of 1-3 will continue to be used to censor data from influencing the isopleths maps.
2. Include annual map of collection efficiencies.

Aim to vote at Spring Meeting.

## **IJC – International Joint Commission – Rick Artz, NOAA**

IJC Air Quality Board

Seeking comments on Canada –United States Air Quality Agreement

- Signed in 1991
- Sets SO<sub>2</sub> and NO<sub>x</sub> objectives (Annex 1)
- Calls for scientific and technical cooperation (Annex 2)
- Addresses ground-level ozone (ozone annex – 2000)

## Issues

- Objectives for SO<sub>2</sub> and NO<sub>x</sub> met, but further reductions needed
- Progress continues to reduce NO<sub>x</sub> and VOCs emissions
- PM annex under consideration

## Public Comment

- [www.ijc.org](http://www.ijc.org)
- Send comments by March 27, 2009

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## **New Equipment – Mark Nilles, USGS**

Model of what we try to accomplish with

Original Aerochem and Belfort – how we got here

Aerochem – no clear successor

Belfort- wanted too much money

End the monopolies!

Going forward, need two raingages and two collectors.

### ***Levels of Testing:***

Phase 1 –does it work (inside)

Phase 2 – does it work (outside at test site)

Phase 3 – multiple sites, real network deployment

### ***Raingage***

For raingage, followed this model pretty closely.

Issue of the acceptance of the Ott Pluvio – is Ott interested in supporting NADP?

Ott Pluvio<sup>2</sup> – at first glance, appears to have major advantages → what pathway to acceptance?

Integration of optical sensors

Do we use optical sensor to perform other actions at the site (opening collector)

Adding Geonor raingage as a third option at HCN sites, but what about testing and acceptance?

### ***MDN Samplers***

N-CON MDN Sampler – most of new MDN sites

Majority of older MDN sites have modified Aerochem Metrics

N-CON changed optical sensor from ETI to Theis optical sensor. So, now we have a mix of three sensors in MDN: ACM grid, ETI optical, and Theis optical – a problem.

Precipitation Sensor

What is the device that opens the sampler?

Is Aerochem Metrics still a viable second choice as a collector? Is there an available supply?

Exec tasked NOS at Spring meeting → multiple optical sensors or single sensor? Bob Larson is conducting survey at IL11.

### ***NTN Samplers***

Aerochem Metrics Classic (grid sensor) is the only approved sampler.

Yankee (YES) sampler does not appear to be a possibility.

Proposed N-CON/NTN sampler at Fall 2008 meeting. Testing at 11IL and 99VT.

Modifications for ACM - Linear actuator motor. ACM uses grid precip sampler exclusively, but could convert to optical sensor (which one?).

Recommendation:

- 1) N-CON that is currently being tested.
- 2) Modified Aerochem with LA drive and optical sensor.

## **NADP Fall Meeting 2009**

### ***Saratoga Springs, NY***

October 6-9, 2009

#### **Possible Topics:**

Science and Policy

Fresh and updated look at acidification

## **AMI Update – Eric Prestbo, Tekran**

Site Liaison hired – USGS employee Mark Olson (1/2 time for NADP).

# **NADP Secretary Nominations and Appointment**

## **Tom Butler, Cornell University**

Selection committee of:

Maggie Kerchner

Kristi Morris

Ray Knighton

Pamela Padgett was nominated to be Secretary.