

Minutes of the Joint Session of the NADP Subcommittees Savannah, Georgia April 11-13, 2005

Agendas – Appendix 1

Attendees – Appendix 2

Subcommittee meetings: Network Operations (NOS), Data Management and Analysis (DMAS), Environmental Effects (EES), Quality Assurance Advisory Group (QAAG)

Respectfully submitted by Martin Risch, Joint/NOS secretary

Activities of the Joint Session

Motions

1. A motion was made to form an ad hoc committee to standardize the common language on the three paper field forms currently in use (NTN, MDN, AIRMon) so that the standardized common language can be incorporated into the new electronic field form. Committee members are Bob Larson, Scott Dossett, Karen Harlin, Jane Rothert, Gerard Van der Jagt, and Chris Lehman (chair). The ad hoc committee is to provide the new field form with the standardized language to the Executive Committee at the June 2005 meeting. [Motion was made by Gary Lear and seconded by Van Bowersox on April 12, 2005. Motion was approved unanimously by voice vote.]
2. A motion was made to recommend that the Executive Committee adopt a single hardware-software option for use with the new electronic field form. That option consists of a PDA, a software application on a personal computer with printer, and electronic (email, internet) submission of the field form. The alternative to the electronic field form will be the paper field form. A report about the 3-month trial of the electronic field form will be presented at the September 2005 Technical Committee meeting. [Motion was made by Mark Nilles and seconded by Van Bowersox on April 12, 2005. Motion was approved by voice vote with one opposing vote.]
3. A motion was made to recommend that the Executive Committee accept the OTT PLUVIO-NADP rain gage and the ETI Noah IV rain gage as replacements for the Belfort 5-780 rain gage; and to reconsider the Geonor T-200 rain gage at their June 2005 meeting. [Motion was made by Rick Artz and seconded by Preston Lewis on April 12, 2005. Motion was approved unanimously by voice vote. Note that during the discussion of Rick's motion, Chris Lehman made a motion to table Rick's motion until the April 13 Network Operations Subcommittee meeting. Chris' motion was defeated by show of hands: 6 in favor and the majority opposed.]
4. A motion was made to recommend that the Executive Committee support collaboration with the Canada Ammonia Survey as presented by Dave MacTavish at the spring 2005 meeting.
5. The Joint Session accepted the reports of the subcommittees without a motion.
6. A motion was made to accept the proposed timeline and guidelines for future NADP meetings. [Motion was made by Kathy Douglas, seconded by Cari Furiness, and approved unanimously by voice vote.]

Activities of the Joint Session—continued

Discussion and Reports

Please see appendix 1 for the agenda of the joint session. Many agenda items were accompanied by a powerpoint slide show and the minutes incorporate those slides by reference. The following information supplements the motions and slide presentations.

- Mercury dry deposition work group--Eric Prestbo provided a draft white paper listing options for determination of mercury dry deposition rates at MDN sites. These options were discussed by the work group on April 13, 2005. The work group members meeting were Eric Prestbo, David Gay, Gary Lear, Rick Artz, Pam Padgett, and Marty Risch. The work group will report at the fall 2005 Technical Committee meeting.
- HAL and CAL precipitation differences—David Gay reported that a procedure had been put in place for determining a single precipitation value from the rain gage chart at collocated NTN and MDN sites in order to reconcile differences from more than one reader. Historical data had been reconciled by Nov. 1, 2004 and data for 4th quarter 2004 was progressing well.
- “Co-operative Programme for Monitoring and Evaluation of the Long-range Transmission of Air Pollutants in Europe” (EMEP)—David Gay reported that NADP had pre-registered for this 6 month, event-based, measurement and modeling project that would offer side by side comparisons of mercury measurement methods. NADP is the only US registrant. The project is to start in June 2005. The cost would be \$12,000 to \$14,000 from the Program Office. The Joint Session took no action.
- 2006 NADP calendar—Karen Harlin mentioned the calendar is in the planning stage and requested photos featuring National Park Service sites.
- Network equipment depot (NED)—David Gay has replaced Scott Dossett as coordinator. In related matters, (a) David Gay demonstrated a redesign of the Aerochem sampler that featured a replacement of the motor box with a screw jack that is more durable and could realize a savings to the NED. (b) Scott Dossett reported the rebuild of the Aerochem sensor is an improvement for the NED; six units are in the field currently.
- The MDN sample archive and reanalysis task group will meet and report to the Technical Committee at the fall 2005 meeting.
- Executive and Budget Committee meetings—Cari Furiness reported that the meeting will be held June 29-30, 2005 at the Hilton Homewood Suites in downtown Chicago, Illinois.
- Fall 2005 Technical Committee meeting and science symposium—Kristi Morris reported that the meeting will be held September 27-30, 2005 at the Snow King Resort in Jackson Hole, Wyoming. A draft agenda with session topics for the science symposium was distributed. The meeting will include a field trip to Grand Teton National Park.
- Spring 2006 Joint Session of the NADP Subcommittees—Mike Kolian led a discussion and show of hands vote for 4 potential locations for the spring 2006 meeting. Joint Session attendees were allowed to vote for two locations. The most votes were cast for Riverside, California with lodging at the Mission Inn, flights to the Ontario Airport, and field trip options in the San Bernadino Mts. The votes were Riverside, CA (21); Albuquerque, NM (16); Austin, TX, (15); and Memphis, TN (6).

Report of the Network Operations Subcommittee (NOS)—Karen Harlin

Motions

1. A motion was made to recommend that the NOS chair, vice-chair, and QA manager shall have the authority to approve or disapprove proposed NADP sites that do not meet the NADP siting criteria and guidelines, replacing the former internet voting procedure. The internet discussion of proposed sites and related criteria and guidelines will continue. This change also was recommended by the QAAG from their April 11, 2005 meeting. [Motion was made by Chris Lehman and seconded by Preston Lewis on April 12, 2005. The motion was approved by show of hands: 10 in favor and 9 opposed.]
2. A motion was made to recommend that the Program Office pursue, at all due speed, the development, testing, and refinement of the LODA redesign of the Aerochem sampler demonstrated at the spring 2005 meeting. The Program Office should report their progress on the sampler at the Budget Committee June 2005 meeting. [Motion was made by Scott Dossett and seconded by Bruce Rodger on April 12, 2005. Motion was approved unanimously by voice vote.]
3. A motion was made to recommend to the Program Office that the QA manager issue an annual report to those funding agencies eligible for the Budget Committee. The report will summarize the ATS survey results (non-compliance with criteria and guidelines) for each agency from the previous year. The QA manager should provide for each agency to respond to the report, showing status of corrective actions. [Motion was made by Scott Dossett and seconded by Rick Artz on April 13, 2005. Motion was approved unanimously by voice vote.]
4. A motion was made to recommend that the Central Analytical Laboratory begin using the new ICS-2000 IC for routine analysis of NTN and AIRMon samples as soon as possible. [Motion was made by Scott Dossett and seconded by Rick Artz on April 13, 2005. Motion was approved unanimously by voice vote.]
5. A motion was made to recommend that the Executive and Budget Committees, at the June 2005 meetings, authorize a multi-site phase III trial be conducted for the Yankee TPC-3000 collector for the NTN. [Motion was made by Mark Nilles and seconded by Van Bowersox on April 13, 2005. Motion was approved unanimously by voice vote.]
7. The NOS voted on 13 potential modifications suggested by OTT for their OTT PLUVIO-NADP rain gage demonstrated at the fall 2004 meeting in Halifax, NS. The modifications and NOS recommendations (YES or NO) on April 12 follow.
 - 1) Rectify the calibration offset. YES
 - 2) Provide field calibration capability and instructions. YES
 - 3) Add the capability for 4 digital input signals. NO
 - 4) Provide a customized version of PDA software. NO
 - 5) Provide PDA software code segments for custom NADP software. NO
 - 6) Decrease the data transmission time. NO
 - 7) Modify the PDA software file structure. NO
 - 8) Provide an option to purchase the PDA from Hach Environmental. NO
 - 9) Separate and weatherproof the cable connections for input signals. YES
 - 10) Provide a pulse output signal. NO
 - 11) Provide a 110-V AC power supply option. YES
 - 12) Provide complete installation and operating instructions. YES
 - 13) Reduce the effort required to remove the cover. YES

Report of the Data Management and Analysis Subcommittee (DMAS)—Bob Larson

The following motions were passed during the meetings April 12-13 and presented to the Joint Session on April 13, 2005. (No detailed information was available regarding voting on motions.)

1. It was recommended that the Program Office proceed with establishment of the methylmercury data base.
2. It was recommended that the Program Office offer a new mapping interface for the web site that can show combinations of sites or data from selected seasons. The maps will not list the site IDs or values; they can be displayed when the mouse is placed on each site location. The maps will be able to be downloaded with an accompanying data table.
3. It was recommended that the Program Office accept a new (smaller) funnel diameter for MDN deposition calculations that is based on the average of 200 funnel measurements by the HAL. Archived MDN data that use a bottle catch for the precipitation amount will be revised using the new funnel diameter.
4. It was recommended that the Central Analytical Laboratory report at the September 2005 meeting a procedure for using site information for identifying outlier values.

Report of the Environmental Effects Subcommittee (EES)—Pam Padgett

The following actions recommended by the EES on April 12-13 were accepted during the Joint Session by voice vote on April 13, 2005.

1. It was recommended that the MDN brochure be approved for use and that any further comments be submitted to David Gay within 7 days. [A motion was made by Van Bowersox to accept the recommendation; Jane Rotherth seconded and the motion was approved unanimously.]
2. It was recommended that the subcommittee name be changed to Ecological Response and Outreach (EROS) to better reflect the revised emphasis on outreach and ecology (especially biology). A written rationale for the name change and amendments to the subcommittee charges will be presented at the fall 2005 meeting. [A motion was made by Van Bowersox recommending that the Executive Committee accept the name change; Gary Lear seconded and the motion was approved unanimously.]
3. It was recommended that the Program Office website establish links on the front page to the forums and make the forums open to the public. Forums are for user and subcommittee communication. Note that this recommendation was endorsed by the DMOS. [A motion was made by Pam Padgett to approve this recommendation; Kathy Douglas seconded and the motion was approved unanimously.]
4. It was recommended that the Program Office modify the screen for data access regarding the intended use of the data and information about the user. The EES will provide proposed checklists for user information and intended use of the information and will post these for discussion on the forums. [A motion was made by Pam Padgett to continue work on revisions to the data access page for 30 days and to suggest final language to the Executive Committee at their June 2005 meeting. Kristi Morris seconded and the motion was approved unanimously.]

Report of the Quality Assurance Advisory Group (QAAG)—David Gay

The following actions recommended by the QAAG on April 11 were accepted during the Joint Session on April 13, 2005. (No detailed information was available regarding voting on motions.)

1. It was recommended that the QA manager finalize the response from the Program Office to the July 2004 Quality Systems Review, incorporating the changes from the discussion at this QAAG meeting; deliver the response at the June 2005 Executive Committee meeting.
2. Discussion on Data Quality Objectives (DQOs) proceeded without final resolution.
 - (a) Discussion of a minimal detectable trend as a DQO identified advantages and disadvantages. The QAG agreed to consult with Luther Smith for further advice.
 - (b) Discussion of minimum reporting limits as a DQO identified that ½ the method detection limit (MDL) was the current minimum reporting limit, but was not the only alternative. The QAAG requested that the CAL investigate differences in the MDL versus ½ the MDL.
3. A task group met to discuss the use of double blind lab tests as part of the USGS external quality assurance project.
4. Discussion occurred about site sponsors not following up on ATS survey findings. It was recommended that more encouragement was needed for site sponsors to eliminate noncompliance with criteria and guidelines detected in the ATS surveys. Emphasis should be placed first on noncompliance issues that can be corrected, rather than separation distances from roads and parking areas, for example, that are difficult to correct.
5. Discussion occurred about new sites being allowed as exceptions to the siting criteria and guidelines. It was recommended that voting to approve new sites with exceptions to siting criteria be changed from the current internet system involving interested NOS members to a three-person approval group consisting of the NOS chair, vice chair, and QA manager.

Appendix 1: Agendas for Joint and Subcommittee Meetings

April 12, 2005 Joint Session

Welcome and introductions, Karen Harlin
Approval of minutes and status of motions, Karen Harlin
Mercury dry deposition advisory committee, Eric Prestbo
HAL and CAL precipitation differences, David Gay
Standing reports
Program Office, Van Bowersox (*attachment 1*)
Quality Assurance, Chris Lehman (*attachment 2*)
Mercury Deposition Network, David Gay (*attachment 3*)
Mercury Analytical Laboratory, Bob Brunette (*attachment 4*)
Central Analytical Laboratory, Karen Harlin (*attachment 5*)
Electronic field operator report form, Bob Larson (*attachment 6*)
Siting criteria update, Chris Lehman (*attachment 7*)
New rain gage and collector evaluations, Van Bowersox (*attachment 8*)
Ideal network design, Pam Padgett (*attachment 9*)

April 13, 2005 Joint Session

Canadian Ammonia Survey, Dave MacTavish
Subcommittee reports and motions
QAAG, David Gay
DMAS, Bob Larson
EROS, Pam Padgett
NOS, Karen Harlin
NADP meeting planning timetable, Kathy Douglas (*attachment 10*)
Upcoming meetings discussion and announcements
Executive and Budget Committees, June 2005, Cari Furiness
Fall Technical Committee, September 2005, Kristi Morris
Spring Joint session, Mike Kolian

April 12, 2005 Network Operations Subcommittee

Approval of minutes and status of action items, Karen Harlin
USGS external quality assurance for NTN and MDN in 2004, Greg Wetherbee
USGS quality assurance field audit site operator training video, Greg Wetherbee
Pending quality assurance action items, Chris Lehman
Sub-sampling protocol for NTN sites continuing field chemistry, Scott Dossett
OTT-PLUVIO updates, Scott Dossett
OTT-PLUVIO modifications, Mark Nilles
Event recorder updates, Scott Dossett
Network equipment depot, Scott Dossett
Demonstration of LODA redesign of Aerochem sampler, David Gay

Appendix 1 continued

April 13, 2005 Network Operations Subcommittee

ATS field survey and 2004 survey report, Tom Jones
ATS 2005 field survey, Jim Kertis
ATS report recommendations, resolution of issues, Joel Frisch
New site approval procedures, Joel Frisch
Rain gage pens, Nick McMillan
Rain gage field calibration task group, Scott Dossett
New shipping protocol updates, Scott Dossett
New ion chromatography instrument updates, Karen Harlin
Total nitrogen measurements, Karen Harlin
Precipitation collector replacement, Scott Dossett and Mark Nilles

April 12, 2005 Data Management and Analysis Subcommittee

Agenda and approval of minutes, Bob Larson
Siting criteria data, Chris Lehman
Integrated mercury data base update, Bob Larson
Methylmercury update, Bob Larson
MDN data SOPs, Bob Larson
Mapping options for coastal and non-criteria sites, Bob Larson

April 13, 2005 DMAS joint session with EES for network design

Attachment 2: Joint Session Attendees—April 2005, Savannah, Georgia

Name	Affiliation	Sub-committee attended
Richard Artz	NOAA Air Resources Lab	NOS
Van Bowersox	NADP Program Office	DMAS/NOS
Bob Brunette	Frontier Geosciences/MDN HAL	DMAS
Artra B. Cooper	USEPA Region 4/Air	DMAS/NOS
Scott Dossett	NADP Program Office/CAL	NOS
Kathy Douglas	NADP Program Office/CAL	DMAS
Joel Frisch	USGS	NOS
Cari Furiness	NC State University	NOS
David Gay	NADP Program Office	DMAS
Karen Harlin	NADP Program Office/CAL	NOS CHAIR
John Ingrum	CAL	DMAS
Tom Jones	ATS	NOS
Maggie Kerchner	NOAA	
Jim Kertis	ATS	NOS
Mike Kolian	EPA-CAMD	NOS VICE CHAIR
Bob Larson	NADP Program Office	DMAS
Natalie Latysh	USGS	NOS
Greg Lawrence	USGS	DMAS
Gary Lear	EPA	DMAS
Chris Lehmann	NADP Program Office/ISWS	DMAS
Preston Lewis	NYSDEC-Albany	NOS
Jim Lynch	Penn State University	NOS
Dave MacTavish	CAPMoN	NOS
Dave Maxwell	National Park Service-Denver	NOS
Nicholas McMillan	Frontier Geosciences/MDN HAL	NOS
Kristi Morris	NPS-ARD	NOS
Mark Nilles	USGS	NOS
Pam Padgett	US Forest Service	EROS
Eric Prestbo	Frontier Geosciences	DMAS
Martin Risch	USGS	NOS SECRETARY
Bruce Rodger	Wisconsin DNR	NOS
Chris Rogers	MACTEC	DMAS
Jane Rothert	NADP CAL	NOS
Marcus Stewart	MACTEC	NOS
Jim Trochta	WI-DWR	NOS
Gerard Van der Jagt	Frontier Geosciences/MDN HAL	DMAS