

NADP Spring Business Meeting
Joint Subcommittees Meeting
Asilomar, CA.
May 6-8, 2002

Minutes
8:00 May 6, 2002

Introductions etc.

Kristi Morris [NOS chair] opened the meeting with an overview of the agenda followed by introductions around the room.

Approval of August Joint Meeting Minutes

There was no motion on the approval of the August Joint Meeting minutes.

NADP Program Office Report

Van Bowersox [NADP Coordinator] gave the program office report. An electronic copy is available from the Program Office. Details of the review by a seven-member team of NADP (NRSP-3)'s administrative and technical operations were discussed. A number of issues were raised: are Program goals being met, is it effective and efficient, is it flexible enough to supply current data needs and is it working towards accomplishing its vision? A first cut at a response to these issues was required of the Environmental Effects Subcommittee with a view to having a final statement prior to the Regional Agriculture meetings in July.

The Program Coordinator delivered five reports in 2001; two technical and three fiscal.

In 2001 the Program supported two podium and two poster sessions at the 2nd International Nitrogen in Potomac, Maryland, attracting 46 presentations. Through 2001, the NADP web site had over one million hits and has more than forty thousand users. This represents an increase of over 300% since 1990. Papers from the proceeding of the 2000 Technical Committee Meeting were published in the journal *Atmospheric Environment* 36(10) 2002 under the banner NADP 2000 - Ten Years After the Clean Air Act Amendments. A new edition of Nitrogen in the Nations Rain was printed with a run of 2000. The MDN brochure is available on the web and is available on request in hard copy. NADP will provide bibliographic search capability on its web site.

A proposal to renew the five-year NRSP-3 was signed by the NADP Technical Committee Chair [Kathy Tonnessen] and the Lead Administrative Advisor [Wayne Banwart]. The proposal was delivered to the four Regional SAES Administrative Advisors and is available online at <http://nadp.sws.uiuc.edu/nrsp3/> The four SAES Associations met in March. The Northeast deferred a decision on all NRSPs until July. North Central extended NRSP-3 for one year and deferred decisions until spring 2003. West accepted the FY03 budget and deferred decision on renewal until July. South accepted renewal and FY03 budget. Overall, a one-year extension and then a consideration of a four-year renewal is the likely outcome.

As of 4/30/02, there are 240 active NTN sites including two duplicates. Eleven new sites were added, one is pending and 18 are under consideration. None are in jeopardy and two have been closed - one in Canada after a move to a new location and one in Texas [TX38]. AIRMoN has 10 active sites, none under consideration and one [FL18] with ownership changing from NEP to FL DEP [my notes and Van hand out are different on this point js]. MDN has 68 active sites including one duplicate. Seven new sites have been added, 2 are pending, 17 are under

consideration and one [CA97] has been closed and will be relocated.

The 2002 Annual NADP Technical Meeting is scheduled for the Seattle Center, Seattle, WA, 10-13 September 2002.

CAL Report.

Karen Harlin presented the CAL report. A copy is available electronically. There were eleven new sites in the network. Between NTN and AIRMoN, the equivalent of 270 sites/week are being supported. [1 NTN = 3 AIRMoN]. CAL is targeting supporting 290 sites/week to accommodate network growth.

The use of bags to collect samples is still being studied and the CAL is working with the manufacturer to eliminate biases due to NH₃, Cl and PO₄.

The next site operator training will be April 8 – 10, 2003.

CAL is looking for material for the next CALendar and wants photographs from the sites.

CAL is seeking DOD funding in a collaboration with a faculty member of U of I Veterinary Medicine to assess the viability of analyzing precipitation samples for biohazards and microbes.

MDN Report

Clyde Sweet presented the MDN report. There are currently 68 sites, with 9 new sites coming online. A further 8 sites are pending, and about 90 sites are expected at the end of FY03. The site, NM10, is [still] at risk.

Data through mid-2001 are on the web. Lab data from the first quarter of 2002 have been received from the HAL.

Field audits of MDN sites will be included in the ATS NADP site visitation program in 2002. A HAL audit is scheduled for 2003.

Sampler intercomparison results were to be reported to NOS.

A manuscript on MDN and mercury deposition was sent to the journal Atmospheric Environment. Bob Brunette presented a paper on MDN to NESCAUM, and Eric Presbo presented at EPA's conference on Persistent Bioaccumulative Pollutants. [Bob clarified for Scott Dossett that some of the confusion at the NESCAUM meeting arose from differences in the method that Gerry Keeler and MDN use]

HAL Report

Bob Brunette presented the HAL report. New staff and equipment have been brought on at Frontier Geosciences to meeting the needs of the expanding network. Frontier has also made more lab space available, including a clean room with Class 100 laminar flow hoods.

The third and fourth quarters of 2001 were late in delivery to the PO, however the first quarter of 2002 was delivered on time. Methyl mercury data for '96 – '01 was also sent to the PO.

WA18 has a 3-year record of trace element analysis. Sites in PA, IN and ME are receiving trace element data. Dry deposition methods are being reviewed at NM10.

The 2001 QA report is in preparation. Questioned by Gary Lear, Bob indicated that interlab studies involve the labs of Gerry Keeler, Rob Mason and Fitzgerald. The HAL is proposing a collector shoot-out between the ACM, NCOM and MICB, probably at WA18, and is seeking equipment loans or donations. The Frontier Geosciences laboratory had a number of external system and performance audits in 2001.

There are 15 MDN sites with Techrans ambient mercury analyzers.

The HAL is still providing 1-on-1 training for new sites, but as the number of sites is increasing, a switch to an annual training class is being considered.

ATS performed 8 site audits between May and July 2001. HAL is providing a "mini-NED" for MDN. A set of 6 rain gauge calibration check weights will be supplied to the sites with a view to getting quarterly cal check reporting. The 11-grid sensor problem on the ACM was resolved by the manufacturer.

QA Report

The QA Report was given by Chris Lehmann. An effort to develop QA system documentation has been initiated. There was discussion as to whether this would use the EPA methodology from the SITE Systems and Performance approach. A Quality Management Plan for the NADP is projected to be complete in the fall. Existing plans for NTN, AIRMoN and MDN will be updated over the next year. Plans for the CAL and HAL are current.

A summary of the external field audits for the '98 – '01 period was discussed. It is intended that all three networks will be included in future audits. Other issues discussed included the need for standardized methods, better ground cover data, information on sources close to MDN sites and the need to track other data that may be collected by other parties at the sites. Follow-up on remedial actions was discussed. 29% of the sites had no reported violations. The most common violations are the 45-degree requirement to tall objects and objects greater than 1 meter within 5 meters of the collector. Remedial actions raised the no-violations percent to 39.

Future plans include having better feedback to site operators on violations and to update site information using the 30-meter site sketches on the web. The use of computational fluid dynamics for site evaluation may be investigated. Opportunities to use the USGS QA program data to look for regional effects will be explored. Data audits focused towards verification are proposed. The QA section of the website is to be updated with more analysis programs.

The joint session was adjourned at 11:30

The Joint Session was reconvened Wednesday, May 8 at 8:30

Status of Canadian Precipitation Monitoring Sites

Dave MacTavish gave an update on the Canadian Precipitation Monitoring sites. Currently there are 7 provincial networks with 68 sites. This is down from a maximum of 9 networks and 207 sites. There was one new provincial site at Prince Edward Island. British Columbia have no sites and are intending to privatize collection. There is one federal network with 23 sites, down from three networks and 95 sites. Data are not yet available over the web [ask Dave!]

Discussion on Site Classification

Luther Smith and Bob Larson led the discussion on the new site classification. This includes information concerning the regional development, population, road networks, sources of NOx and Sox and proximity to the ocean. Bob indicated that the classification would soon be

updated with the 2000 census data and '99 emissions. Proximity to ammonia and mercury sources can be included as data become available.

A motion to adopt the new classification was made by Scott Dossett, seconded by John Sherwell and passed unanimously on a voice vote.

Closing reports were presented:

Chris Lehmann for the QA Workgroup. A QA workgroup was established to advise the Executive Committee. It will not be a formal committee. Current members are: Scott Fowler [EPA], Gary Lear [EPA], Natalie Latysh [USGS], Jane Rothert [NADP], John Sherwell [MD DNR], Bob Brunette [HAL/Frontier Geosciences]. Immediate tasks are to establish data quality objectives. As necessary, the Workgroup will coordinate issues prior to the Executive Committee meetings

Kristi Morris for NOS. Details are in the NOS minutes. There were no motions for the Technical Committee.

Bob Larson for DMAS. DMAS needs new officers and is seeking volunteers. Details are in the DMAS minutes. There were no motions for the Technical Committee.

John Sherwell for Effects. Details are in the Effects minutes. There were no motions for the Technical Committee.

Update on the Fall 2002 Technical Meeting

Rich Grant led a discussion on the Fall 2002 Technical Meeting – the 25th anniversary of the Program. Session topics included mercury, stable isotopes, dry/total deposition, Puget Sound, ammonia, long-range transport, PBPs/toxics/biohazards, PM and visibility.

Suggestions for Spring 2003 Meeting

Mark Nilles lead the discussion on the Spring 2003 meeting location:

New Orleans	13 votes
Brown Co. [IN]	13
Timberline Lodge [OR]	12
Shepherdstown [WV]	5
Marconi- Point Reyes [CA]	4
Aspen Lodge [Estes Park, CO]	0

Meeting adjourned at 11:30