

## **Minutes of the Joint Session of the NADP Subcommittees in Jackson, Wyoming September 27, 2005**

Agenda – Attachment 1

Attendees – Attachment 2

Respectfully submitted by Martin Risch, Joint/NOS secretary

### Activities of the Joint Session

#### Motions

1. A motion was made to approve the minutes of the Spring 2005 Joint Session in Savannah. [Motion was made by Cari Furiness and seconded by Greg Wetherbee. Motion was approved unanimously by voice vote.] The Joint Session accepted the Spring 2005 reports of the subcommittees without a motion
2. A motion was made to accept a proposal by David Gay for a method to estimate precipitation amounts under conditions of non-performance of both the rain gage and collector. The written 4-point proposal was distributed for review (Attachment 3) and will be incorporated into the NADP Network Quality Assurance Program. [Motion was made by Van Bowersox and seconded by Bob Brunette. Motion was approved unanimously by voice vote.]

#### Discussion and Reports in the Joint Session

Please see attachment 1 for the agenda of the Joint Session. Many agenda items were accompanied by powerpoint slides and the minutes incorporate those slides by reference. The following information supplements the motions and slides.

The Fall 2005 Joint Session of the NADP subcommittees was opened with a welcome by Kristi Morris, who organized the technical meeting and science symposium. Karen Harlin stated the Spring 2005 minutes had been emailed to the Joint Session attendees. Karen summarized a list of motions from the Spring Joint Session that were approved by the Executive Committee in June 2005. It was noted that the Executive Committee also approved motions of the subcommittees from the Spring Joint Session.

Cari Furiness reported on the actions of the Executive Committee. The OTT-NADP and NOAH-IV rain gages were approved for use at new NTN and MDN sites in January 2006 and should be installed at all sites by January 2009. Subcommittee reports, awards, and elections were announced for the Technical Committee meeting on September 28.

Van Bowersox explained the functions and design of the two new rain gages, noting differences in data capture and data processing (attachment 3). A key example was data regarding sampler open/closed status, operating voltage, precipitation amount, time of precipitation, and temperature. Van indicated further presentation and discussion about the rain gages was planned for the NOS meeting and the Technical Committee meeting.

Bob Larson reported that the release of the new electronic field form had been rescheduled to January 2006 with field trials at IL11 in the following months. An update to the Joint Session will be made in Spring 2006.

### **Minutes of the Joint Session--continued**

David Gay presented a handout (attachment 4) and slides for a proposed method to estimate precipitation amounts under conditions of non-performance of both the rain gage and the collector. This condition had occurred during the recent hurricanes, prompting the proposed method which was used to generate maps in the draft 2004 NADP report. The missing precipitation amounts would have substantially reduced the deposition estimates for the affected sites; for example, central Florida would have 8 ug/m<sup>2</sup> annual Hg deposition without the proposed method to estimate missing precipitation, compared with 16 ug/m<sup>2</sup> when it was included. Van Bowersox indicated about 3 percent of the 2004 samples had a failure of the rain gage and collector. Some discussion occurred and a motion was approved to accept the proposed method.

Greg Wetherbee made a presentation (attachment 5) about data quality objectives (DQO's) for NADP. He said DQO's help to ensure that data meet the needs of the users. He stated that the Quality Assurance Advisory Group (QAAG) looked at four data quality indicators (DQI's): representativeness, uncertainty, completeness, and sensitivity. These indicators were explained and approaches for use were offered. Representativeness would be determined with criteria developed by the DQOs QAAG is working on and with input from the Ecological Responses and Outreach Subcommittee (EROS). Uncertainty would be evaluated with collocated samplers and rain gages. Completeness criteria determine whether data from a site are included in annual summary maps. Greg explained why completeness criteria for collection efficiency might be changed from 75 percent to 50 percent for sites above 2000 meters. Sensitivity describes the capacity to distinguish between signal and noise, as measured with field audit and system blank data. He explained an approach for applying these data to a DQI. Greg concluded with the QAAG plan to have DQO rules for DQI's by November 2005, to finish a draft DQO document by January 2006, and to seek approval for the document at the Spring 2006 meeting.

Bob Vet provided an update on the Canada Ammonia Survey endorsed in 2005 by the Joint and Executive Committees (attachment 6). The survey will use passive samplers and the network is expected to be operating by April 2006. The intent is to collocate samplers at 7 NADP sites in Wisconsin, Ohio, and New York.

Karen concluded the Joint Session by deferring standing reports for the HAL and CAL to the NOS meeting and by having chairs preview agenda items for the NOS, DMAS, and EROS meetings.