National Atmospheric Deposition Program
Spring Meeting 2007, Burlington, VT

Draft – Data Management and Analysis Subcommittee minutes

Wednesday, 4/11/07

<u>New Logo Presentation</u> (joint with EROS)

Chris Rogers presented two new Logo designs, submitted by the NADP PO
and the CAL's Pam Bedient.
The members liked elements of each design but could not come to an
agreement which one was the best design.
Chris Rogers volunteered to create a "hybrid" version of both logos. The
Hybrid version would contain elements of each design.

Motion by Chris Rogers: Present 3 logos (PO, Pam's and hybrid) to vote
on during the spring 2007 joint session.
Second: Pam Padget.
Passed.

<u>Chris Lehman presented: Generation of NADP deposition maps using co-
kriging.</u>
Discussion:
Should NADP consider co-kriging? Which method is better, krigin vs. co-
kriging? Which method introduces more error? What is the purpose of co-
kriging for the NADP? Are we looking at offering a different data product?
Luther Smith pointed out that co-kriging should not be done in automated
fashion; you need to look at all aspects and variables. For co-kriging to work
you will need to have somebody full time to look at all the variables.
It was determined that at this time kriging, co-kriging would not be feasible
due to resource limitations.
No action required from DMAS.

<u>Chul-Un Ro presented: A new method to calculate Monthly Summaries
from Weekly data.</u>
Ro recommended that the NADP use daily precipitation data to determine
monthly precipitation depth and monthly deposition calculations. If daily
precipitation data are not available it is recommended to construct a daily
precipitation record from weekly data and generate monthly summaries

using the daily records within a month. Currently the NADP uses a 4 week period to calculate monthly summaries.
Discussion: Bob Larson- monthly adjustments can be made but will not be used for annual summaries/maps. Currently the actual concentration values are used but Ro's method will create an estimation. It will also complicate completeness criteria. If a sample is disqualified, how will it affect the data? Is it OK to make up daily values? (see Chul-Un Ro presentation)

Motion by Chris Rogers: Bob Larson to analyze the current data set to calculate completeness criteria based on Ro's proposed method and see what percentage of the current data set would be affected. Present a report at the 2007 fall technical meeting.
Second: Chris Lehman
Passed.

Greg Wetherbee presented: Altitude Dependent Deposition Maps
Discussion: NADP might be tossing out valuable data, since the concentrations of high altitude sites seem to be similar despite poor capture efficiencies.

Adjourned

Thursday, 4/12/07

NOS – DMAS joint session: HAL, CAL audit response (see NOS minutes)

Bob Larson: Update on methyl mercury database.
The methyl mercury data has not been posted on the website yet. During the HAL audit some issues came up that might require a different coding scheme. Bob L. presented the following coding scheme for methyl mercury samples:
Note code "x": for low volume methyl mercury samples (< 45 mL)
Note code "y": for methyl mercury samples with concentrations < 3 pg.
Note code "z": for methyl mercury samples < 0.05ng/L

Motion by Bob Brunette: Accept the proposed coding scheme for methyl mercury samples.
Second: Chris Rogers
Passed.
The auditors recommended increasing the methyl mercury sample volume.

Motion by Chris Rogers: NOS to examine the use of the second chimney for methyl mercury sample collection, but any collector modifications need to be field retrofittable if possible.
Second: Bob Brunette
Passed.

Motion by Bob Larson: Elevate Gerard to chair to take over from the departing John Ingrum and elect Tom Bergerhouse as the new secretary. The next elections will be Fall 2008.
Second: Bob Brunette
Passed.

Chris Rogers moved to adjourn.
Second Bob Brunette