

NADP Spring 2023
DMAG Meeting Agenda
Friday April 14, 2023 – 11am-12:30pm CST
Minutes (Amy Mager 4/19/2023)

NO MOTIONS came out of the meeting

- Attendees: Zac Najacht, Nichole Miller, Richard Tanabe, Mark Kuether, Casey Lanham, Amy Mager, Chris Rogers, Tim Sharac, Greg Wetherbee, Greg Beachley, Amanda Cole, Aaron Pina
- Welcome New Members
 - Amanda Cole - Environment and Climate Change Canada
 - Aaron Piña - U.S. Forest Service
- Data Review and Reporting
 - Network summaries & Status (Zac Najacht/Dana Grabowski)
 - # of active sites, avg. # of samples per month, data sets are by month rec'd, preliminary data reporting turnaround times
 - NTN – Sept. 2022
 - MDN – Oct. 2022
 - MLN (Litterfall) – Annual reporting, 2021/2022 data reports almost complete (need review of notes codes/flagging); 2022/2023 sample analysis in process (near completion)
 - AMoN – Dec. 2022
 - AMNet – data obtained on a monthly to quarterly basis, on track to have all 2022 data reviewed by Spring Meeting
 - Precipitation Review – received and reviewed weekly

Network	Approx. Sites	Approx. Samples per Month
NTN	255	1075
MDN	82	340
MLN	24	Seasonal / Variable
AMoN	92	230
AMNet	11	8640 (5 min/month)
PRECIP	N/A	1200 (300 weekly)

- Data to website (Mark Kuether)
 - Web data status
 - MDN - data posted through:
 - Weekly - July 2022
 - Annual - 2021
 - NTN – data posted through
 - Weekly – July 2022
 - Monthly, Season, Annual, WY - 2021
 - AMoN – data posted through December 2022
 - Current using live data
 - No annual summaries
 - Putting a static table in place where data can be reviewed before it moves to web
 - Program Office Procedures being documented & SOPs being drafted
 - Status
 - Data Manager High Level SOP - started includes position details, location of data and code, etc.
 - Data Manager Detailed SOP - started details of how data is reviewed and posted to web

- Changes/Updates
 - Precipitation management program (Casey Lanham/Mark/Dana/Zac)
 - Web-based to program-based development – status update?
 - Casey has been working on this as a top priority with help from OIS; Dana helping as much as possible
 - Mark and Zac also involved
 - VB script to Java
 - Good progress
 - Will remain web-based, but will be on a more efficient framework - faster, easier updates and upkeep
 - Updated the code/outlook scripts that moves files out of outlook
 - Precip processing – one last thing to figure out regarding altppt amounts, close to done
 - Next: focus on the front end that Zac and Dana use, integrate ppt review with data review so we are not doubling efforts.
 - Also work on the interface of the precip data summary
 - Updating NTN daily precipitation to format similar to MDN (Zac/Casey/Dana)
 - future plan to make these upgrades is in coordination with precip program upgrades
 - Precip request form (Richard created)
 - <https://go.wisc.edu/6659ot>
 - Not “released” at this time – currently people ask Mark K. for data via email
 - Requestor provides details up front
 - Data on number of requests, types of requests, and time to provide report
 - Mark and Richard propose a similar form for general data requests
 - This will streamline data requests for both NADP and the requestor
 - Curious about how this will be received; will it seem “off-putting” or less personal?
 - Where will the form be posted? It could go on multiple pages on the website and can also go out via the listserv(s)
 - CAPMoN has an internal request log/tracking system; Amanda expressed interest in potentially using a survey as well
 - We could run the surveys by DMAG before officially posting them to get input on feel, content, etc.
 - Data Review: reviewer flags, qualifiers & comments (Zac/Casey/Nichole Miller)
 - Possible data qualifiers (moved from spreadsheet to DR program)
 - Testing currently in progress – near completion
 - New process adds comments, notes codes and adjusts QR code automatically, no more copying from spreadsheet and manually adding codes
 - Has moved to production; using old (spreadsheet) and new (incorporated into program) for rest of April to see if any issues surface
 - Provides consistency and makes data review faster
 - minor changes to data review processes (Zac)
 - automate/consolidate reviewer flags & comments – Less copy/paste, less mouse clicks, save time, more efficient
 - apply statistical programs to pre-screen data sets and potentially identify outliers on both ends of the validity spectrum – identify samples whose QR code will not change with further review, focus on samples whose validity might change with further review.
 - shifting roles/tasks within sample receiving & data team to continue implementation of more branched approach to data review as a whole
 - MLN (Litterfall) metadata, notes codes & QR codes (Zac/Dana/Mark)
 - Metadata document complete? - yes
 - Develop & implement notes codes & QRs?
 - Feedback on possible notes codes – d, f, i, l, m, q –proposed at fall meeting will touch on these at spring meeting as well

- 2021 dataset reviewed with QR and notes codes – complete? – **qualifiers will be manually added to the 2021 data sets as needed.**
- External Audit (Amy Mager/Nichole)
 - Responses have been submitted
 - A few items are to be addressed in QAAG/Spring meeting
 - **4-5 findings**
 - **If anyone wants to see the documents, reach out to Nichole**
 - **Richard will talk in Joint Session of Spring Meeting on PO Responses**
- NADP Website (Casey/Mark)
 - Precipitation plots improvement
 - No updates at this time. The team has focused on updating the backend precipitation code, as well as updating the web interface for data review
 - To be reviewed after these projects completed
 - **New website does not have precip data yet; waiting for the precip infrastructure to be rebuilt (first bullet above)**
 - Status of concentration and deposition maps/future plans
 - Plans to add Grid files (**grid files are what the maps are built from**) to be released on web site again after 2018 due to user demand (no eta)
 - Mapping scripts not working. Mark and David are seeking assistance from OIS/IT to get these working so Mark can produce maps and grids for 2022 data and end user requests
 - Mark has had some success troubleshooting mapping scripts
 - **PRISM data interpolated with our precip data and chem data to produce concentration and deposition**
 - **Richard – Grid files are produced by Greg Beachley and housed on EPA website; NADP website provides a link to this.**
 - **Mark will follow up with Greg Beachley regarding grids.**
 - Data access format
 - Web API (**internal code for our website**) being re-coded and tested
 - NTN and MDN API coded and tested.
 - AMoN being redesigned to work from static table. Under development by Mark and Casey
 - Trends data functionality being reviewed - initial API testing indicates that this works
 - Web Data Change Log – record of major changes made to web data
 - **Discussion about how broad this should be, should every small change be made available, or focus more on large scale changes, things that impact validity**
 - **Would be useful info for those who use our data to write papers**
 - **CASTNet has an “update date”, currently we have a “date modified” column on website**
- Siting Criteria Updates (Tim Sharac)?
 - **Several products have come out of this effort**
 - **Reports**
 - **Windrose diagrams for orientation recommendations**
 - **Siting Criteria evaluation results (spreadsheet format)**
 - **Where should these go?**
 - **NADP website, QA section is one idea**
 - **Talk about at Spring Meeting for other recommendations?**
 - **Get posted after the Spring meeting**
 - **Tim will send a document containing windroses for sites oriented incorrectly and asking DMAG to review and vote on whether or not to grant a waiver for each site (NOTE – there was some discussion and follow up on this topic via email). Not sure where it currently stands.**

- DMAG going forward (Chris Rogers/open DMAG comments)
 - CR: great agenda, hit all items of interest
 - CR: Long term planning for delivery of precip on the web is an important issue to address, this is in the works
 - Zac & Mark to continue as co-chairs moving forward