

AMS National Network of Networks (NNoN) Committee

Notes from Meeting held 22 May 2019

Attendance: 12

Jerry Brotzge, Greg Blumberg, Keith Brewster, Fred Carr, Tanja Fransen, J.J. Gourley, Systke Kimball, Curtis Marshall, Brenda Philips, Judson Stailey, Caroline Strenfel, and Garrett Wheeler

Agenda:

1. Past Success and Remaining Issues to Address – Determining a Path Forward
2. 2019 Summer Community Meeting
3. 2020 Annual AMS Meeting
4. NNoN Speaker Series, Webinars

Item #1: Past Success and Remaining Issues to Address – Determining a Path Forward

- The Weather Enterprise has seen tremendous success in “network of networks” activities since Dabberdt et al. (2005), including creation of the National Mesonet Program, rapid growth of state and private sector weather networks, and a growing awareness of the utility and need for ground-based observations.
- Significant issues remain for NNoN Committee, particularly with regard to the creation and sharing of weather observations. These include:
 1. **Data rights** – Who owns the intellectual property rights?
 2. **Data access** – How can proprietary data be “open”? One example – AGU journals require that data be accessible, but allows for accessibility with a cost. Openly accessible does not mean “free”.
<http://www.copdess.org/enabling-fair-data-project/>
 3. **International cooperation** – How can data be shared internationally in a fair and equitable way? There are some limitations inherent to WMO Resolution 40.
http://www.wmo.int/pages/prog/www/ois/Operational_Information/Publications/Congress/Cg_XII/res40_en.html
 4. **Determining value** – Which data are valuable to which parts of the Weather Enterprise? Who is the determining entity, and what method(s) should be used to determine value? And who is responsible for supporting these systems once value is determined?
 5. **Integration of Data and NWP Communities** – How can the observation and NWP communities become better integrated? Advances in NWP are often tied to gap-filling, higher-resolution observations and appropriate data assimilation.

- 6. **Network standards** – The AASC and NMP are working on developing national standards for observational networks. Common standards for siting, sensing, and metadata are needed by the community.
- A number of opportunities lay ahead for NNoN to address the above issues: the 2019 Summer Community Meeting, the 2020 Annual AMS meeting, and possible hosting of a Forum in Fall 2020.

Item #2: 2019 Summer Community Meeting

- The Summer Community Meeting will be held 13-14 August 2019 in Albany, NY
- <https://www.ametsoc.org/index.cfm/ams/meetings-events/ams-meetings/2019-summer-community-meeting/>
- Key topics include:
 - o Big Data, AI and Business Analytics, innovating “beyond the buzz words”
 - o Enhanced collaboration with Emergency Managers
 - o Use of observation networks to improve forecasts
 - o Opportunities for US Weather Enterprise to more effectively contribute globally
 - o Expanding the Enterprise by engaging new stakeholders
 - o Communication innovations during high impact weather events
- **The Committee requests that a final agenda be posted as soon as possible so that travel arrangements can be made for those interested, and so the NNoN Committee can help on those topics relevant to the NNoN.**

Item #3: Annual AMS Meeting in 2020

- Five sessions have been submitted for the annual AMS meeting in 2020:
 - o Presidential Session - "Greatest Observational Needs of the Weather, Water and Climate Community"
 - o Topic #51810 - "Advances in Products and Services by State Mesonets"
 - o Topic #51814 - "A Survey of Ground-Based Observations..." - Invited talks
 - o Topic #51819 - "Quantifying the Value of Commercial Data Sources for Public Service"
 - o Topic #51820 - "Weather Data: How much do we need and who Pays?" - Panel Discussion
- The Presidential Session and Topic #51814 are the same; if the Presidential Session is accepted, then Topic #51814 will be cancelled.
- Abstracts submissions will be open soon.
- **Jerry B. is looking for NNoN volunteers to help! Please let me know if you are interested in helping with any of these sessions.**

Item #4: NNoN Speaker Series, Webinars

- Interest in attracting speakers from outside the NNoN
- Consider webinars covering some of the annual AMS session topics, to generate interest in advance of the annual meeting
- Possible topics of interest:
 - o WMO representative to discuss data sharing issues
 - o NWP leader to discuss observations and how we can strengthen engagement between NWP and observation communities
 - o FAA(?) representative to discuss drones, the “drone space” and weather data collection
 - o MADIS representative to provide an update on current activities
 - o Sensing of the PBL – discussion of observation priorities

Miscellaneous:

- The AMS “Committee on Open Environmental Information Services” is now dissolved. Their Terms of Reference are available, and we have been asked if we would like to take over those duties. I can provide additional information upon request.
- Next Meeting: Will plan for another meeting about one month from now.