

## Snow Workshop Agenda

### DAY 1

8:00 Breakfast

8:50 Welcome and Logistics

9:00-9:15 Where we are and challenge

9:15-9:45 FEMA perspective

9:45-10:15 State Government Perspective and Requirements

10:15-10:30 Break

### **IMPROVING OBSERVING PRACTICES AND DATA QUALITY TO MEET USER NEEDS**

10:30-10:50 COOP plan overview to meet needs and perspective (NCPM)

10:50-11:10 - NOAA/NWS Current Standard Observing Practices; COOP, ASOS, Snow Paid, Snow Spotter

11:10-11:30 Regional Perspectives

11:30-11:50 - Other networks; CoCoRaHS

**11:50-12:30 BREAKOUT DISCUSSION #1: NOAA observing systems: Are requirements being met with today's networks? What can other networks provide? What changes in observing practices and data collection processes need to be made to meet requirements? Accept non-NOAA networks as "official" observations?**

12:30-1:30 – Lunch

1:30-1:50 –Snowfall and snow depth obs in Canada; quality control and standardization

1:50-2:30 – Quality Control Practices

NCDC (QC applied to snow obs when the data are ingested and added to the archives; GHCN-D/TD-3200/ISD/CDO and QC applied to the data when processed through the snow climatology.)

Rutgers

CoCoRaHS

**2:30-3:15 BREAKOUT DISCUSSION #2: Identify methods for incorporating new quality control procedures into NOAA and non-NOAA networks**

3:15-3:30 BREAK

**NEW MEASUREMENT TECHNOLOGIES TO MEET 21<sup>ST</sup> CENTURY NEEDS**

3:30-3:50 – Automated Snowfall Measurements – Perspectives from an Operational Network, Delaware

3:50-4:10 Development and operational Auto snowfall and snow depth obs in Canada

4:10-4:30 Auto measurement R&D from ATDD

**4:30-5:00 pm Breakout Discussion #3: Develop recommendations for how NOAA should be using automated snowfall measurements and how NOAA should leverage developing auto measurements in the future**

5:00-5:45 – Return to Plenary, Summaries and Recommendations from Breakouts

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**DAY 2 Leveraging Existing Science to Enhance Snow Climatologies and Products**

7:15-8:00 Breakfast

8:00-8:10 Review of Day 1

**Developing New and Improved Historical Climatologies and Products**

8:10-8:30 – Creating a homogenous snowfall record

8:30-8:50 – One other talk on homogeneity

8:50-9:10– NCDC's Snow Climatology Dataset

9:10-9:30 – NOHRSC

9:30-9:50 – 1X1 Grid

9:50-10:10 BREAK

10:10 -10:30 New Gridding Methodologies potentially applicable to Snow

10:30-10:50 Other Satellite-based

**10:50-11:45 Breakout Discussion #4: Identify and prioritize existing methodologies that can be leveraged to improve snow climatologies and techniques for comparing station current snowfall to historical extremes and different period of records considering gaps in temporal and spatial coverage**

11:45-12:45 – Lunch

12:45-1:15 User perspectives – Aviation community

1:15-1:45 FEMA – Providing services to States – GIS/Web related needs

**1:45-2:30 BREAKOUT DISCUSSION #5 Identify web-based data delivery and visualization tools that should be developed to meet FEMA and Other community needs**

2:30-2:45 BREAK

2:45 -3:10 NWS Training Center on Snow Policy and Training Requirements

3:10-3:30 Hail reporting procedures

**3:30-4:15 BREAKOUT DISCUSSION #6: Identify new training methods that should be incorporated into NOAA and non-NOAA networks to improve and better standardize observing practices**

4:15-5:15 – Summaries and Recommendations from Today's Breakouts

5:15-5:30 - Day Wrap-up

6:00 – Group Dinner or Event of Some Kind

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## **Day 3**

7:15-8:00 Breakfast

8:00-8:30 Review Breakout Discussions and Recommendations from Day 1 and 2.

REVIEW of what we discussed on DAY 1 just prior to LUNCH and DAY 2 at the end after hearing other perspectives and having made a list to go on. Revisit the list with new knowledge and perspectives.

### **8:30-9:30 Breakout Discussion #7: Where to go from here – Recommendations for New Policies and Directives**

- **Objectives: Determine the need for changes to NOAA policies and directives which would facilitate improvements in observer training and observing practices, data quality, and enhancements to the use and integration of snow observations from NOAA and non-NOAA networks.**
- **Determine the need for changes to FEMA snow disaster declaration policies to align directives with evolving observing practices, historical climatologies, and NOAA and non-NOAA observations.**

9:30- 10:15 Summaries and Recommendations from Breakout #7

10:15-10:30 Break

10:30-11:30 Open discussion of Recommendations from Breakouts and Agreement on way forward

11:30 Workshop Ends