

Initial Summary, NOAA Response, Next Steps

Workshop Purpose

- i) To inform NOAA on actions required to address present and anticipated future mission requirements for predictions of Arctic weather and climate and related impacts
- ii) Define actions needed to determine relationships between Arctic and lower latitude weather and climate variability and their predictive implications

Meeting Objectives

- Identify primary mission drivers that require NOAA to improve its predictions of Arctic weather and climate and related impacts.
- Evaluate forecast verifications and uncertainty estimates in current Arctic predictions to focus attention on priorities for forecast improvements.
- Identify major gaps and define steps needed by NOAA, working together with its partners, to improve predictions of Arctic weather and climate and Arctic-midlatitude connections, and associated NOAA services.

Meeting Objectives

- Identify opportunities for NOAA to work together with other agencies, the external community, and international programs to accelerate progress in advancing scientific understanding and predictions of Arctic weather and climate and related impacts, and to deliver useful information and products that would improve decision-making.

Initial Reaction

- Extraordinary work by groups
- Specific actions recommended.
- Building a basis for stronger and more effective partnerships to tackle common issues

A few common themes

- Sea ice – cuts across prediction problems
- Observations – in situ and remote (satellite), other (e.g., community)
- Modeling – coupled modeling, improved initialization
- Processes and Mechanisms – need better understanding, predictive implications
- Opportunities: Partnerships, Programs and Projects

Next steps

- Very near term – high level briefings
- Draft report on Workshop for the NOAA Research Council

Report Outline

- Introduction – Drivers, Workshop Objectives, Participants
- Current status, major challenges and gaps
- Overarching Opportunities and Recommendations
- Recommended Near-term Actions
- Problem specific Recommendations
- Strengthening Partnerships
- Conclusion

