

AMS STAC Chairs

Annual Meeting 2022

Ankur Desai, Commissioner
Genene Fisher, Past Commissioner
Kristie Franz, Future Commissioner
Feb 4, 2022

Agenda

Welcome (5 min)

General announcements (5 min)

Panel on STAC role in AMS statements (30 min)

Future of Meetings task force (15 min)

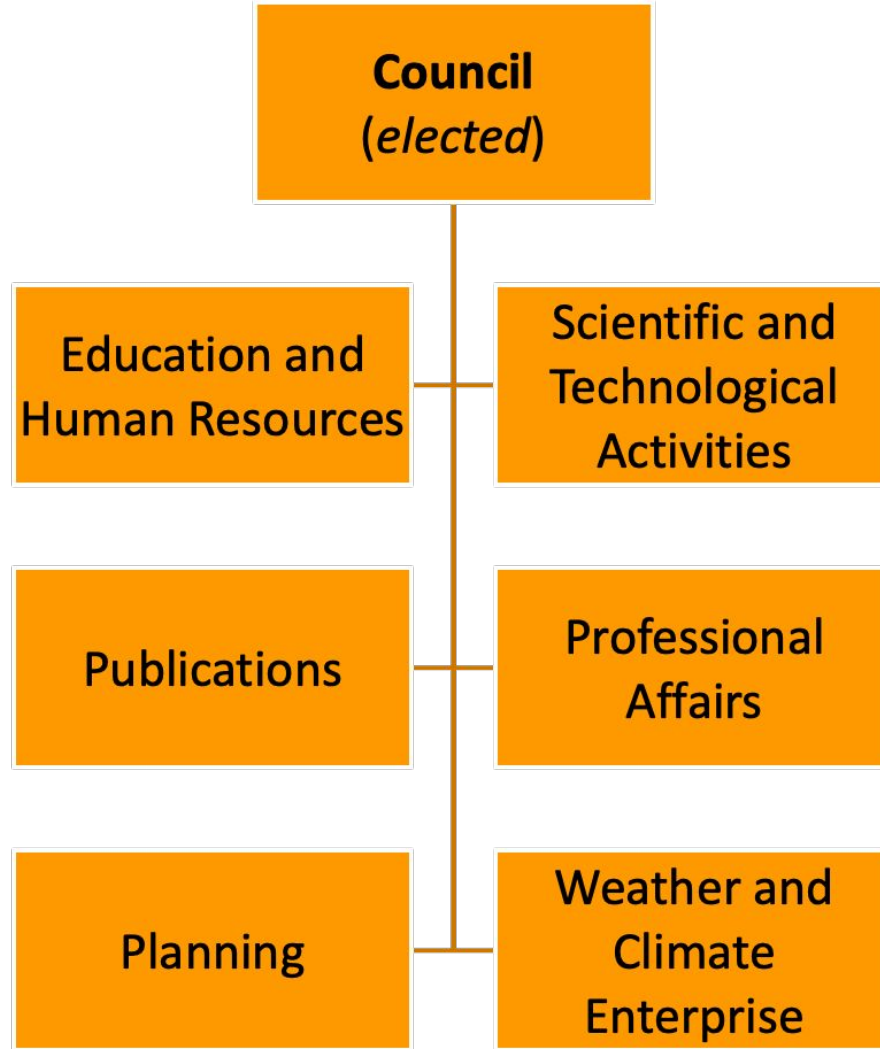
Welcome from new AMS executive director (10 min)

Visits from other AMS staff: policy, meetings, engagement, others (15 min)

Open Q&A (5 min)

Adjourn

What is AMS?



Who is STAC?

438 members on 36 boards and committees - the largest commission

11% students

41% women (36% for chairs, 50% for students)

64% academia, 34% government, 2% private sector

79% AMS members

93% from US (biggest states CO, MD, CA)

Responsible for many key activities of AMS: most meetings, contribution to statements, webinars and short courses, awards (AMS and STAC), engagement of membership in policy, enterprise, profession, publications, training

3 Commissioners who oversee

Genene Fisher as Contact

- Board on Data Stewardship
- Board on Atmospheric Biogeosciences
- Board on Environment and Health
- Board on Societal Impacts
- Committee on Applied Climatology
- Committee on Meteorological Aspects of Air Pollution
- Committee on Meteorology and Oceanography of the Southern Hemisphere
- Committee on Polar Meteorology and Oceanography
- Committee on Probability and Statistics
- Committee on Atmospheric and Oceanic Fluid Dynamics
- Committee on Space Weather

Kristie Franz as Contact

- Board on Environmental Information Processing Technologies
- Board on the Urban Environment
- Committee on Air-Sea Interactions
- Committee on Aviation, Range, & Aerospace Meteorology
- Committee on Hydrology
- Committee on Measurements
- Committee on Mesoscale Processes
- Committee on Mountain Meteorology
- Committee on Satellite Meteorology, Oceanography, and Climatology
- Committee on Severe Local Storms
- Committee on Tropical Meteorology & Tropical Cyclones
- Committee on Weather Analysis and Forecasting

Ankur Desai as Contact

- Committee on Artificial Intelligence Applications to Environmental Science
- Committee on Atmospheric Chemistry
- Committee on Atmospheric Electricity
- Committee on Atmospheric Radiation
- Committee on Boundary Layers and Turbulence
- Committee on Cloud Physics
- Committee on Coastal Environment
- Committee on Laser Atmospheric Studies
- Committee on Middle Atmosphere
- Committee on Planned and Inadvertent Weather Modification
- Committee on Radar Meteorology
- Committee on Agricultural and Forest Meteorology

Departing Chairs

Kerry Cook - Climate Variability and Change

Xianglei Huang - Atmospheric Radiation

Jeffrey Mirocha - Boundary Layers and Turbulence

Sarah Tessenforf - Planned and Inadvertent Weather Modification

Heping Liu - Agricultural and Forest Meteorology

Scott Landolt - Measurements

Scott Bruan - Tropical Meteorology and Tropical Cyclones

New Chairs

Wassila Thiaw - Climate Variability and Change

Eli Bou Zeid - Boundary Layers and Turbulence

Nick Dawson - Planned and Inadvertent Weather Modification

Paul Stoy - Agricultural and Forest Meteorology

Reid Hansen - Measurements

Hui Su - Tropical Meteorology and Tropical Cyclones

STAC Awards 2022

Type	Nominee	Board/Committee
STAC Outstanding Early Career Award	John T Allen	Committee on Weather Analysis and Forecasting
STAC Outstanding Service Award	Jeffrey Collett	Committee on Atmospheric Chemistry
STAC Outstanding Service Award	Kristie Ebi	Board on Environment and Health
STAC Outstanding Service Award	John Jensenius	Committee on Atmospheric Electricity
STAC Outstanding Service Award	Sujay Kumar	Committee on Hydrology
STAC Outstanding Early Career Award	Ashley Matheny	Committee on Agricultural and Forest Meteorology
STAC Outstanding Early Career Award	Amanda Maycock	Committee on Middle Atmosphere
STAC Outstanding Early Career Award	Angie Pendergrass	Committee on Climate Variability and Change
STAC Outstanding Early Career Award	Joseph Ripberger	Board on Societal Impacts
STAC Outstanding Early Career Award	David Bodine	Committee on Radar Meteorology
STAC Distinguished Scientific/Technological Accomplishment Award	Masataka Murakami	Committee on Planned and Inadvertent Weather Modification

How to be a STAC chair or vice-chair

Just about all you need is here:

<https://www.ametsoc.org/index.cfm/stac/chair-member-information/>

Best Practices

Membership Updates

Conference Reports

STAC Award nomination

Website editing

Code of conduct:

<https://www.ametsoc.org/index.cfm/ams/about-ams/ams-organization-and-administration/ams-code-of-conduct/>

Volunteer portal:

<http://ametsoc.informz.net/z/cjUucD9taT0xMDA4NzIxMyZwPTEmdT0xMDkyNDUyMjYwJmxpPTg3NjgxMzI3/index.html>

How we communicate

AMS Community (for chairs, whole commission, and for your committee/board)

This annual meeting (Jan/Feb)

Bi-annual telecons (May/Oct) and quarterly newsletter (Feb/May/Aug/Nov)

Visits to your STAC committee meetings, virtual or in-person (invite us)

Email us - conduit to AMS staff, council, and other commissions

Reports from you: 5-year strategic plans, annual updates

Conference reports: <https://forms.gle/AxWoPz6928dfkkEr8>

Panel on AMS Statements

<https://www.ametsoc.org/index.cfm/aMS/about-ams/ams-statements/>

Clark Evans, Weather Analysis and Forecasting

Kerry Cook, Climate Variability and Change

Doug Schuster, Board on Data Stewardship

AMS Statement on Weather Analysis and Forecasting



American Meteorological Society

MEMBERSHIP
& GIVING

JOURNALS &
PUBLICATIONS

MEETINGS
& EVENTS

EDUCATION
& CAREERS

POLICY
PROGRAM

GET
INVOLVED

Home > About AMS > AMS Statements > Statements of the AMS in Force > Weather Analysis and Forecasting

Weather Analysis and Forecasting



DOWNLOAD PDF

An Information Statement of the American Meteorological Society

Adopted by the AMS Council on 20 December 2021

Introduction

Across the United States, government agencies (including the military), private industry, and private citizens consult weather analyses and forecasts to support decisions ranging from the routine (e.g., whether to hold an event) to important and urgent actions to help protect life and property when threatened by hazardous weather. Weather's impacts are substantial and wide-reaching and occur on multiple temporal and spatial scales. Examples include the following:

- 291 billion-dollar weather and climate disasters (e.g., tornadoes, hurricanes, extreme temperatures, and floods) have occurred in the United States since 1980, including 22 billion-dollar disasters in 2020 alone. Of these billion-dollar weather and climate disasters since 1980, tropical storms and hurricanes have been the costliest, with losses totaling nearly \$1 trillion.
- Excessive heat is the leading cause of weather-related fatalities, with recent peer-reviewed estimates of excess mortality ranging from 5,600 to 12,000 per year.
- As of March 2021, approximately 70% of air traffic delays are caused by adverse weather conditions. The FAA also reports an annual average of nearly 167,000 total delay hours, at a cost to airlines between \$1,400 and \$4,500 for each delay hour.
- High-impact weather events, including billion-dollar disasters such as the 2019 California wildfires, August 2020 Midwest derecho, and 2021 central United States cold-air outbreak, account for 90% of all large (>50,000 affected customers) U.S. power outages.

Motivated by weather's significant impacts, this statement discusses who uses weather and forecast information to make important decisions, describes how weather forecasts are made and communicated to others, illustrates the types and overall quality of forecasts that are used to inform people and become the basis of decision-making in a range of settings, and provides insight into how forecast skill and communication can be further improved to benefit society.

Clark Evans (evans36@uwm.edu)
Chair, Weather Analysis & Forecasting Committee

Background

- The prior Statement on Weather Analysis and Forecasting, which took effect in 2015, resulted from a painful, laborious process.
 - The revision took **nearly three years**, from an approved precis in April 2012 to AMS Council approval in March 2015, to complete!
 - The drafting committee contained ten members (including me), but their ability to engage varied substantially over the lengthy drafting period.
 - Needless to say, the Weather Analysis and Forecasting Committee was **not** looking forward to the process of revising this statement again!
- In late September 2020, just as we're beginning a leadership transition, we received word that it's time to revise the Statement.
 - In the words of our outgoing Chair, Becky Adams-Selin, "Hoo boy, am I glad to be retiring this year."

This Time Around...

(a/k/a What Worked Well)

- We assembled a large, diverse statement team.
 - The Guidance for Statements of the AMS indicates the drafting team should have 6-10 members. Our team consisted of 22 members.
 - The AMS Statement volunteer portal and targeted outreach to individuals and other Boards and Committees allowed us to assemble a diverse team, particularly across sectors and disciplines.
 - This process took a while, though – almost seven months from start to end.
- We divided the existing statement into subsections, with each drafting team member assisting with revising two subsections.
 - This arrangement provided for focused discussions involving diverse stakeholders on small, manageable portions of the Statement.
 - Since drafting team members assisted with multiple subsections, discussions benefitted from insights team members could bring from the other working group on which they were serving.

This Time Around...

(a/k/a What Worked Well)

- We established realistic, but only as long as was absolutely necessary, timelines for each drafting subcommittee to complete their work.
 - Each drafting subcommittee was allotted six weeks to prepare their revised drafts. All of them met this timeline with relatively minimal prodding! Having strong subcommittee leaders helped a lot.
- We established an Oversight team charged with collating the individual subsections into a coherent narrative and addressing all subsequent revisions.
 - I selected three people to assist me on this team: the WAF Committee Vice Chair and two colleagues with whom I had extensively worked on a review article published in *Monthly Weather Review*.
 - This small, dedicated team of experienced individuals enabled the collation and revision processes to occur far more smoothly than they did with the 2015 Statement.
- Altogether, it took just 15 months from initial notification of the need to revise the Statement to final AMS Council approval.

AMS Statement Process -Software Preservation, Stewardship and Reuse

- Recommendations
 - Determine why the proposed statement is needed –What challenge is being addressed?
 - What's the best fit? Policy, Informational, Professional Guidance?
 - Recruit collaborators to assist in developing a statement proposal
 - Likely to participate on the formal drafting committee as well
 - Develop and recruit a diverse drafting committee who will be engaged and available
 - Volunteers/suggestions from STAC board(s)/committee(s)
 - Include reps from private, public, education and nonprofit sectors
 - Solicit a volunteer from AMS council
 - Work with a subset of the drafting committee to iterate on developing the statement text
 - Iterate with the full committee to finalize the text
 - Do most of the work offline, and meet to discuss major issues
 - Allocate adequate time for drafting activities and meetings

AMS Statement Process - Software Preservation, Stewardship and Reuse

- Challenges
 - Suggested statement drafting timeline (8 months) may be challenging to meet, depending on the scope/complexity of the statement
 - Need better publicize availability of 30-day member comment period, we received no public feedback, but extensive feedback from AMS council
 - AMS should mint Digital Object Identifiers to policy statements (archived in a repository), to better facilitate citation and version control

Future of Meetings Task Force

Initiated by Planning Commission

Chaired by Tanja Fransen

Meetings are an essential way that AMS meets its strategic goals. The AMS currently has a mix of specialty meetings focused on one discipline, forums, summer community cross-sector meeting, an annual meeting that can encompass several specialty meetings along with other community-wide sessions, and other international meetings. Meetings are essential for the exchange of scientific ideas and preliminary results, for networking among AMS members, for cross-sector discussion and collaboration, for outreach by the society to local communities, for honoring esteemed members, for conducting AMS business, and for creating a sense of belonging and inclusion within the Society. With virtual formats recently becoming a potentially viable alternative to being in person, the Society needs to consider the nature of meetings going forward.

New AMS leadership

Stella Kafka, AMS Executive Director

Richard Clark, AMS President 2022

Meetings



Jen Ives, AMS Meetings Director

- List of Meetings:

https://docs.google.com/spreadsheets/d/1U6R2sf765G9H-PBtoRjP2DJK6_LWKLjSXpBDZKBBLwg/edit#gid=2069366455

Future Annual Meetings: <https://www.ametsoc.org/index.cfm/ams/meetings-events/upcoming-meetings/annual-meeting/>

- Hybrid Meetings
- 102nd Annual Meeting Feedback:
 - Final 2022 Program Chair Monthly Planning Call - 14 February at noon EST
 - Survey (deadline is 15 February):
<http://ametsoc.informz.net/z/cjUucD9taT0xMDQyODc5MSZwPTEmdT0xMDcxODk0MzQ4JmxxpPTkyNTMzNjc2/index.html>
- 103rd Annual Meeting (Denver, 9-13 January 2023) theme: Data: Driving Science. Informing Decisions. Enriching Humanity
 - Preliminary List of Conferences: <https://docs.google.com/spreadsheets/d/1Obp3ydzN3eSkFoS2nUaQ5c58tBIAHMOTs-Vm0s8dvfM/edit?usp=sharing>
 - Form to Request Participation as a Conference/Symposium:
https://docs.google.com/forms/d/e/1FAIpQLSesq50VH2fWyD8_b4y_E8JKugcq_La27bHX4teWoWWVjO0KIQ/viewform?usp=sf_link
 - 2023 Program Chair Monthly Planning Calls - begin in March
- New Program Chair Training - TBA



Other AMS Visits

Policy

Community Engagement

Education

Open Q&A