

AMS 2017 Annual Meeting Proposed Session Topic Summary

Conference	Session topic
BOSARTSYMP	middle latitudes and tropics
BOSARTSYMP	convective scale
BOSARTSYMP	mesoscale
BOSARTSYMP	synoptic/planetary scales
Bob Houze Symposium	cloud dynamic and physical processes
Bob Houze Symposium	mesoscale and tropical meteorology
Bob Houze Symposium	the role of mesoscale convective systems and precipitation in global weather and climate
33rd Conf on EIPT	Advancements in Information Systems Technology
33rd Conf on EIPT	APIs and Web Services for Accessing, Integrating and Using Weather, Water, Climate and Societal Information via Desktop and Mobile Platforms
33rd Conf on EIPT	AWIPS System Updates
33rd Conf on EIPT	Communication Technologies for Accessing and Distributing Climate, Weather and Hydrological Data
33rd Conf on EIPT	Crowdsourcing Data and Data Portals
33rd Conf on EIPT	Disseminating Earth Science and Climate Information for Better Decision Making
33rd Conf on EIPT	Mapping and GIS for Weather and Climate
33rd Conf on EIPT	QuasiOperational Products You Can Use Now
33rd Conf on EIPT	Radar Technologies and Applications
33rd Conf on EIPT	Visualization Techniques for Climatology and Meteorology
33rd Conf on EIPT	Software Engineering and Cyberinfrastructure
33rd Conf on EIPT	Weather and the Roads
33rd Conf on EIPT	International Applications: Global Initiatives for Multi-Hazard Impact Based Science to Services including Volcanic Ash (Joint with ARAM, USINT)
33rd Conf on EIPT	International Applications: Sharing Environmental Big Data (Joint with USINT)
33rd Conf on EIPT	Economic Impacts and Value of Improved Forecast Information (Joint with SOCIETY)
33rd Conf on EIPT	Research to Operations: Transitioning from Science to Service (Joint with R2O, SOCIETY)
33rd Conf on EIPT	Weather Information at Our Fingertips (Joint with R2O)

33rd Conf on EIPT	Weather Observing Systems Via Airborne Platforms (Joint with ARAM)
33rd Conf on EIPT	The NOAA Big DataCRADAs. An Update and a Look at the Opportunities They Pose for the AMS Community and Its Members (Joint with AI, SOCIETY)
31HYDRO	Hydrometeorological extremes
31HYDRO	Drought analysis and prediction
31HYDRO	Flood prediction, analysis, decision support, & managem
31HYDRO	Hydrometeorological applications, products and services
31HYDRO	Innovative water cycle observations
31HYDRO	Advances in evaporation and evaporative demand
31HYDRO	Remote sensing applications in hydrology
31HYDRO	Land data assimilation techniques and systems
	Integrated metrics and benchmarking for next generation hydro/land surface modeling of the water cycle
31HYDRO	Land-atmosphere interactions
31HYDRO	Regional climate modeling
31HYDRO	Precipitation processes and observations for atmospheric
31HYDRO	Other Topics in Hydrology
	Weather phenomena (Winter weather; Tropical weather; Severe storms; mesoscale meteorology; High impact local weather)
28 WAF	Forecasting techniques (Aviation forecasting; Hydrologic forecasting; Fire weather analysis and forecasting; Impact of new data types and observational platforms)
28 WAF	Forecasting tools (New applications; Satellite applications; Quantitative precipitation forecasts; Testbed, proving ground, and research-to-operations activities; Observational and NWP tools to facilitate decision support services, including social media)
28 WAF	Societal impacts of weather (Impacts of extreme weather events on society, economy, and public health; Linkages between weather analysis, forecasting, NWP, impact-based decision support services derived from these topics, and continued preparation of NOAA's "Weather-Ready Nation")
28 WAF	

24 NWP	Results from recent field campaigns: OLYMPEX, WFIP, PECAN, SHOUT, VORTEX-SE, TCI-ONR, and others Data assimilation techniques Model development and application (Forecast verification methods and performance; Updates on global and mesoscale models; Improving model performance and efficiency; New or improved parameterizations; Local application of regional models; Regional climate downscaling approaches or short-range climate prediction)
24 NWP	New ensemble generation or probabilistic-based forecasting techniques
24 NWP	Ronald W. Przybylinski Memorial Session on Elevated Convection
28 WAF/24 NWP	Obtaining, assimilating, and modeling with new and unique observational datasets, (Joint 21 IOAS-AOLS)
28 WAF/24 NWP	Polar numerical weather prediction and modeling (Joint with the 14 Polar)
26 Education	Innovations in University Instruction
26 Education	K-12 Education
26 Education	Higher Education
26 Education	Informal Education
21 IOAS/AOLS	Observing Systems: atmosphere, ocean and land surface, in situ and remote
21 IOAS/AOLS	Comparisons with other observing systems
21 IOAS/AOLS	Data Assimilation: New developments in methodology; research and operational applications on all spatial and temporal scales
21 IOAS/AOLS	Numerical analysis and prediction experiments involving observations: data impact and observation sensitivity tests
21 IOAS/AOLS	Observing System Simulation Experiments (OSSEs)
21 IOAS/AOLS	Field Experiments: observational and assimilation results

18 ARAM	Weather Impacts to Aviation, Range and Aerospace Operations (Convection, Icing, Space Weather, Turbulence, Volcanic Ash, Wake Vortices, Wind Shear, Winter Weather)
18 ARAM	Weather Information Integrated into DSTs on the Ground and in the Air (ATM-Weather Integration, Decision Support Tools, Weather Technology in the Cockpit [WTIC])
18 ARAM	Traditional and Non-Traditional Non-Aircraft Sensors and Observation Capabilities (Sensors and Observation Capabilities, Satellites, Radar, Lightning)
18 ARAM	Traditional and Non-Traditional Aircraft Sensors and Observation Capabilities (Aircraft-Based Observations)
18 ARAM	Advances in Numerical Weather Prediction, Ensemble Modeling and the Use of Artificial Intelligence Techniques in Support of Aviation, Range and Aerospace Operations (NWP, Ensemble Modeling, AI)
18 ARAM	What's Weather Worth to Aviation, Range and Aerospace Decision-Makers (Benefits Assessment)
18 ARAM	Outside the (Aviation) Box – Impacts of Weather on Range, Aerospace, Commercial Spaceport and UAS Operations (Range, Aerospace, Commercial Spaceport and UAS)
18 ARAM	The Framework We Rely On – NextGen and International Programmatic, Policy and Regulatory Updates (NextGen, International, PP&R)
18 ARAM	The Little Guys – Most Vulnerable to Weather Impacts (GA Operations)
15 Coastal	Coastal Climate: Sea level rise, coastal flooding and impacts of melting sea-ice
15 Coastal	Big Data in the Coastal Environment
15 Coastal	Novel Observational Techniques: Data assimilation, Unmanned observations, regional networks, coastal data needs
15 Coastal	Social Science: Tools, Methods and Applications
15 Coastal	Ecological and Biological coupled forecasting
15 Coastal	Case studies

15 Coastal	Joint Session (with STAC Committee on Hydrology): Regional and coastal hydrodynamic model coupling, including hydrological impacts
15 History	History of meteorology and atmospheric sciences Early History of Global Measurements of the Earth
15 History	Radiation Budget and Clouds
14SpaceWx	How space weather changed the world – almost
14SpaceWx	Major Scientific Challenges in Space Weather
14SpaceWx	Moving the Space Weather Action Plan (SWAP) Forward
14SpaceWx	Observational Platforms for Space Weather
14SpaceWx	The Scientific Uses of CubeSats
13 GOES-R	Algorithm Development
13 GOES-R	Calibration and Validation
13 GOES-R	Direct Broadcast Capabilities for Polar-orbiting and Geostationary Satellites and Their Use in Support of Societal Needs
13 GOES-R	Education, Training, and User Readiness for the GOES-R Series
13 GOES-R	Education, Training, and User Readiness for the JPSS Series
13 GOES-R	Enterprise Ground Architectures and the Research to Operations Process: Tools, Technologies, and Experiences
13 GOES-R	NOAA Satellite Data Operations
13 GOES-R	Program Overviews and Status for New Operational Environmental Systems (Invited)
13 GOES-R	Satellite Testbeds and Proving Ground Activities
13 GOES-R	Societal Benefits of Satellite Data Applications
13 GOES-R	Ensuring the Data Continuity from the Environmental Satellite Constellation
13 GOES-R	User Readiness for New Operational Environmental Satellite Systems
13 GOES-R	Advances in CubeSats and SmallSats to Improve Earth Science and Weather Forecasting
13 GOES-R	Advances in Satellite Observations and Earth Science and Observing Technologies

	session ideas from anyone with an interest in the intersection of weather, climate, and society, especially including original research in social and behavioral sciences and public policy related to weather or climate.
12 Society	societal responses, risk and resilience in the face of climate variability, extreme weather, and climate change
12 Society	communicating weather and climate information, risks and uncertainty: research and applications
12 Society	policy and decision making at the weather, climate and society Interface
12 Society	Extreme Weather, Health and Communities
9 Aerosol	aerosol interactions with shallow clouds
9 Aerosol	aerosol-deep convection interactions
	soil dust lofting, transport, and warm and cold cloud interactions
9 Aerosol	aerosols, clouds, and precipitation from DOE ARM observations
9 Aerosol	polar clouds and climate (Joint Session with Polar Meteorology and Oceanography)
	aerosol indirect effects and climate variability in CMIP6 (Joint Session with Climate Variability and Change)
9 Aerosol	Observation and forecast requirements to support high penetration of renewable generation sources on a regional and national scale
8 Wx,Climate, Water and the New Energy Economy	Climate data and modeling applied to long-term renewable energy resource development
8 Wx,Climate, Water and the New Energy Economy	Understanding geographic variability and correlation of renewable fuel sources (e.g., wind, solar, hydro) on hourly, daily, monthly, seasonal and annual time scales
8 Wx,Climate, Water and the New Energy Economy	Strategies on the geographical distribution of renewable generation sources at a national scale
8 Wx,Climate, Water and the New Energy Economy	Software applications linking weather to energy decision support
8 Wx,Climate, Water and the New Energy Economy	Energy applications for weather/climate data
8 Wx,Climate, Water and the New Energy Economy	Big data analytics providing decision support within the energy sector

8 Wx,Climate, Water and the New Energy Economy	Remote sensing techniques for wind energy assessment and forecasting
8 Wx,Climate, Water and the New Energy Economy	Statistical and artificial intelligence/machine learning applications in the energy sector
8 Wx,Climate, Water and the New Energy Economy	Lidar Applications to the Energy Sector (Joint between the Eighth Conference on Weather, Climate, Water and the New Energy Economy and the Eighth Symposium on Lidar Atmospheric Applications)
8 Wx,Climate, Water and the New Energy Economy	Statistical and artificial intelligence/machine learning applications in the energy sector
8 Environment and Health	El Niño and Health + Core Science Lecture
8 Environment and Health	NASA Earth Observations and Climate Change
	Climate change, extreme weather, and infectious disease transmission:
	Emerging links and opportunities for adaptation and research
8 Environment and Health	
	Staying Alive: Integrated Modeling of Health System and Urban infrastructure Responses to Extreme
8 Environment and Health	Weather Events
	Applying a Systems-level Approach to the Phytobiome:
8 Environment and Health	Can We Create a Better Future?
	Climate change and associated diverse health impacts:
8 Environment and Health	highlights of ongoing research at CDC
8 Environment and Health	Climate Services and Integration of Data – ENACTS
	Extreme Heat I: Understanding the Social, Physiological, and Climatological Mechanisms Driving Health
8 Environment and Health	Outcomes in Extreme Heat
	Extreme Heat II: The National Integrated Heat Health Information System (NIHHIS): Domestic and International Partnerships for Building Resilience to
8 Environment and Health	Extreme Heat
8 Environment and Health	Environment & Health at the AMS:
8 Lidar	Lidar observations (e.g. wind, aerosol, and water vapor) as model assimilation inputs and verification data-sets
	Lidar observations of aerosols, winds, clouds and trace gases - with applications to air quality and climate
8 Lidar	studies:
	Lidar Networks: Making lidar data accessible to
8 Lidar	decision makers and the public

8 Lidar	New lidar technologies for atmospheric applications: from instrumentation to data distribution
8 Lidar	Lidar applications to the energy sector
8 Lidar	Space-based lidar observations - past, present, and planned, including the CALIPSO Mission and its impact on AMS community interests.
8 Lidar	Polar lidar observations
8 Lightning	The Coupling of Lightning to Cloud Processes (Cloud microphysics and electrification; Thunderstorm kinematics, dynamics and lightning; Lightning within organized midlatitude, tropical and wintertime cloud systems; Utility and Impact of Lightning Data in operations; Lightning and Atmospheric chemistry; Lightning and numerical weather prediction)
8 Lightning	Societal and structural hazards of lightning (Safety for events, outdoor activities, and other population groups; Protection of the built environment; Preparedness and education)
8 Lightning	Lightning Detection Technology, Sensor Intercomparisons, and Applications (photography and videography; sensor development and validation; lightning physics; space-based sensors: new observations and validation plans)
8 Lightning	Lightning climatologies
7 Python	Modeling
7 Python	Time series analysis
7 Python	Air quality
7 Python	Satellite data processing
7 Python	In-situ data analysis
7 Python	GIS
7 Python	Python as a software integration platform
7 Python	Visualization
7 Python	Gridding
7 Python	Model intercomparison and ensembles
7 Python	Data intensive computation and big data
7 Python	Teaching and learning Python
7 Python	Connecting Python with other languages
5JCSDA	Development of innovative methods for assimilating satellite observations for environmental analysis and prediction;

5JCSDA	Assessment of the impact of satellite data on numerical weather prediction (NWP) skill;
5JCSDA	Development of common tools and infrastructure to enhance and accelerate satellite data assimilation efforts in operational systems;
5JCSDA	Successful transitions of research to operational assimilation of satellite data;
5JCSDA	Assimilation of satellite data to improve the analysis and forecast of land surfaces, oceans, and air quality. Societal impacts of the MJO, including the agricultural and energy sectors
5MJO	Tropical–extratropical interactions with the MJO
5MJO	MJO modulation of tropical cyclones
5MJO	Methods for identification and prediction of the MJO
5MJO	Analysis of observations from the DYNAMO/CINDY field campaign
5MJO	Representation of the MJO in numerical models
5MJO	Theoretical studies of the MJO’s dynamics
5MJO	Climate change and the MJO
5MJO	Air–sea interactions in the MJO
5R2O	University/Student AMS Chapter contributions to building a WRN...outreach events on campus or in local communities.
5R2O	Decision Support Services and the Tools to Enable Forecasters
5R2O	Early Warning, Decision Support and Societal Benefits of 3-4 Week forecasts and seasonal/sub-seasonal outlooks
5R2O	Water prediction advances to build a "water-ready nation"
3HPC	Data assimilation, research, theory and practice
3HPC	Data analysis: Big Data Analytics in the ocean/weather/climate enterprise
3HPC	Model evolution and creation: The role of continuous model improvement
3HPC	HPC challenges in Research to Operations
3HPC	The role of coprocessors in new and existing geophysical models
3HPC	Is it time to consider breaking the Fortran/C mold?
3HPC	3D Visualization tools associated with high performance systems, research and operations?

3HPC	Modeling in the cloud Challenges for weather, water and climate modeling at exascale
3HPC	
3HPC	Storage architectures to support HPC
	Advances in software environments and tools for exploiting HPC
3HPC	Advancing and Leveraging Research into Operations, and Operations Feedback into Research Between and Among International Partners
2US-International Partnerships	Joint Research and Coordinated Observations in Hydrometeorology, Extremes and High-Impact Events in the US and Asia
2US-International Partnerships	Innovative Academic/Public/Private Partnerships Within and Across Economic Sectors between US and Asia
2US-International Partnerships	Working Toward a More Weather, Water and Climate-Ready World—Issues and Opportunities
2US-International Partnerships	Integration of In-situ and Satellite-derived Observations into Data Assimilation and Weather, Water and Climate Modeling Systems for the Improvement of Forecasts
IMPACTS2016	Global Weather Impacts
IMPACTS2016	US Weather Impacts session
GREEN SYMP	high performance or next generation green buildings
GREEN SYMP	integrated design
GREEN SYMP	the economics of building green
GREEN SYMP	sustainability management and governance
GREEN SYMP	drivers of change
GREEN SYMP	siting, materials, water, and waste

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c, land surface, and hydrological modeling