

### 2016 Annual Meeting Themed Joint Session Participation Grid

Proposed Joint Session	Joint Session Title	Session Description and Comments	Primary Conference to host Session in Meeting Room	Participating Conferences (conferences noted in red have not confirmed their participation yet)
J1	Urban studies that support the understanding of urban growth and climate variability impacts on health, adaptation, and resilience	Talks in this sessions will explore growth and development of urban areas and how cities are impacted by, and must prepare for, climate variability and change in a multitude of ways. Topics can include heat waves, flooding, extreme weather, infrastructure development, adaptation needs, and variable socioeconomic effects to understand how we can enhance urban resiliency.	4th Symposium on Building a Weather Ready Nation	<ul style="list-style-type: none"> <li>o 7th Conference on Environment and Health</li> <li>o 28th Conference on Climate Variability and Change</li> <li>o 22nd Conference on Applied Climate</li> </ul>
J2	Weather Information at Our Fingertips	New technological information services that will assist in the timely and accurate weather information at our fingertips (what are they, how are they used, examples of best practices, how to transition these to the public)	32nd Conference on Environmental Information Processing Technologies (EIPT)	<ul style="list-style-type: none"> <li>o 6th Conference on Transition of Research to Operations</li> <li>o 4th symposium on Building a Weather Ready Nation</li> </ul>
J3	Helping Society Mitigate and Adapt to Climate Variability and Change	How does our community expect to continue to improve climate services to help society mitigate and adapt to climate variability and change? (NIDIS, IPCC, lessons learned from high impact events)	22nd Conference on Applied Climatology	<ul style="list-style-type: none"> <li>o 28th Conference on Climate Variability and Change</li> <li>o 11th Symposium on Societal Applications: Policy, Research and Practice</li> <li>o 4th Symposium on Building a Weather Ready Nation</li> <li>o 4th Symposium on the Weather and Climate Enterprise</li> </ul>
J4	Emerging Services within the Weather, Water, and Climate Enterprise	How will our community respond to new venues or opportunities that need weather information, like SPACEX (others)? This is commercial, how and who will provide that information? What are new plans for things like this? What will be the benefits? Will new policies be needed?	4th Symposium on the Weather and Climate Enterprise	<ul style="list-style-type: none"> <li>o 32nd Conference on Environmental Information Processing Technologies (EIPT)</li> <li>o 22nd Conference on Applied Climate</li> <li>o 5th Aviation, Range, and Aerospace Meteorology Special Symposium</li> </ul>
J5	Research to Operations: Transitioning from Science to Service	AMS has a nearly 100-year history of "Science to Service" ala "Research to Operations" (or bridging the valley of death, etc). Could a review of all the major advances of science be done highlighting the all of the positive differences that have been accomplished with the advances of science available to public and policy makers? Should include NWS, USN, USAF. What is on the near and far horizons?	32nd Conference on Environmental Information Processing Technologies (EIPT)	<ul style="list-style-type: none"> <li>o 6th conf on Transition of Research to Operations</li> <li>o 11th Symposium on Societal Applications: Policy, Research and Practice</li> <li>o Invite the Board of Broadcast Meteorology to help formulate this session (they typically are not at the Annual, but lots of members attend)</li> <li>o 14th History Symposium</li> </ul>
J6	Improving Communication of Threats to the Public	Are there special needs for our Society to be aware of that will benefit the public in the long run? How do we address the efforts to improve communications of threats to the public? What is needed? What new policies?	11th Symposium on Societal Applications: Policy, Research and Practice	<ul style="list-style-type: none"> <li>o 4th Symposium on the Weather and Climate Enterprise</li> <li>o Invite the Board of Broadcast Meteorology to help formulate this session (they typically are not at the Annual, but lots of members attend)</li> </ul>

J7	The impacts, successes and gaps of current observing systems in earth system science		20th Conference on Integrated Observing and Assimilation Systems for the Atmosphere, Oceans, and Land Surface (IOAS-AOLS)	<ul style="list-style-type: none"> <li>o 12th Symposium on New Generation Operational Environmental. Satellite Systems</li> <li>o 4th Symposium on the JCSDA</li> <li>o 4th Symposium on Building a Weather Ready Nation</li> <li>o 18th Symposium on Meteorological Observation and Instrumentation</li> <li>o 13th Conference on Space Weather</li> <li>o 6th Conference on Transition of Research to Operations</li> </ul>
J8	Perspective and plans for future observing systems in earth system science		12th Symposium on New Generation Operational Environmental Satellite Systems	<ul style="list-style-type: none"> <li>o 20th Conference on Integrated Observing and Assimilation Systems for the Atmosphere, Oceans, and Land Surface (IOAS-AOLS)</li> <li>o 6th Conference on Transition of Research to Operations</li> <li>o 4th Symposium on the JCSDA</li> <li>o 13th Conference on Space Weather</li> </ul>
J9	Atmospheric chemistry and aerosols in weather and climate prediction and analysis	Large uncertainties exist in the effects of atmospheric gases and aerosols on weather and climate which impair our predictive capabilities. This session will focus on studies showing new developments and assessing these effects on multiple spatial and temporal scales. Studies including, but not limited to, aerosol-cloud-radiation interactions, ozone and chemistry impacts and effects of	8th Symposium on Aerosol-Cloud-Climate Interactions	<ul style="list-style-type: none"> <li>o 18th Conference on Atmospheric Chemistry</li> <li>o 19th Joint Conference on the Applications of Air Pollution Meteorology with the A&amp;WMA</li> <li>o 28th Conference on Climate Variability and Change</li> <li>o 22nd Conference on Applied Climatology</li> </ul>
J10	High-impact weather: analysis, prediction and interactions with climate changes		28th Conference on Climate Variability and Change	<ul style="list-style-type: none"> <li>o 14th Symposium on the Coastal Environment (Impact of hurricanes and hurricane forecasts)</li> <li>o 4th Symposium on Building a Weather Ready Nation</li> <li>o 14th Conference on Artificial and Computational Intelligence and its Applications to the Environmental Sciences</li> <li>o 13th Conference on Space Weather</li> <li>o 4th Symposium on the JCSDA</li> <li>o 22nd Conference on Applied Climatology</li> </ul>
J11	Greenhouse Gas Emissions: Quantifying Uncertainties in Measurements and Models and Resultant Climate Impacts	Over the last few years, significant advances have been made in both in situ and remote sensing technologies for measuring greenhouse gases (GHGs). The successful launch of global observing systems such as the Orbiting Carbon Observatory (OCO-2), the Soil Moisture Active Passive (SMAP) missions as well as deployment of localized surface	18th Conf. on Atmospheric Chemistry	<ul style="list-style-type: none"> <li>o 28th Conference on Climate Variability and Change</li> <li>o 22nd Conference on Applied Climatology</li> <li>o 19th Joint Conference on the Applications of Air Pollution</li> </ul>
J12	Adapting to Climate Variability and its Impacts on Energy Sector Resilience		7th Conference of Weather, Water and Climate and the New Energy Economy	<ul style="list-style-type: none"> <li>o 22nd Conference on Applied Climatology</li> </ul>