Washington D.C. Update and Advocacy Awards

Scott Rayder
Senior Advisor to UCAR President

Members Meeting
October 11, 2016
UCAR Strategic Plan 2015-2018

• **UCAR Vision:** Understanding tomorrow’s weather and climate through **partnership**, research, discovery, and innovation.

• **UCAR Mission:** To empower our Member Institutions, our National Center, and our Community Programs by
  – Promoting research excellence
  – Developing fruitful collaborations
  – Managing unique resources
  – Creating novel capabilities
  – Building critical applications
  – Expanding educational opportunities
  – **Engaging in effective advocacy**

“The ultimate goal of UCAR advocacy is to strengthen the atmospheric and related sciences and to maximize their value to the nation and the world at large."
Total Federal Discretionary Spending for Defense and Nondefense Programs
(in billions of dollars)

- Actual Spending
- Statutory Sequester Levels
- New Spending Levels

Spending Caps Begin
Across the board cuts called Sequester kick in

FY11 FY12 FY13 FY14 FY15 FY16 FY17 FY18 FY19 FY20 FY21
U.S. Government Expenditures on Meteorological Operations & Research*

* FY2009 to FY2015 are actuals
<table>
<thead>
<tr>
<th>Funding Line</th>
<th>FY16 Enacted</th>
<th>FY17 Request</th>
<th>Change 16-17</th>
<th>House Change 16-17</th>
<th>Senate Change 16-17</th>
<th>Change 16-17</th>
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<tbody>
<tr>
<td>NOAA</td>
<td>5,766</td>
<td>5,848</td>
<td>1.40%</td>
<td>5,581</td>
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<tr>
<td>Office of Atmospheric &amp; Oceanic Research</td>
<td>482</td>
<td>520</td>
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<td>462</td>
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<tr>
<td>Climate Research</td>
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<tr>
<td>Weather &amp; Air Chemistry Research</td>
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<td>102</td>
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<td>118</td>
<td>98</td>
<td>-4.60%</td>
</tr>
<tr>
<td>Ocean, Coastal &amp; Great Lakes Research</td>
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<td>179</td>
<td>-4.60%</td>
<td>177</td>
<td>181</td>
<td>-3.90%</td>
</tr>
<tr>
<td>Research Supercomputing</td>
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<td>26</td>
<td>31.40%</td>
<td>26</td>
<td>28</td>
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<tr>
<td>National Weather Service</td>
<td>1,124</td>
<td>1,119</td>
<td>-0.40%</td>
<td>1,132</td>
<td>1,135</td>
<td>1.00%</td>
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<tr>
<td>Observations</td>
<td>233</td>
<td>256</td>
<td>9.70%</td>
<td>256</td>
<td>250</td>
<td>7.30%</td>
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<tr>
<td>Central Processing</td>
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<td>155</td>
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<td>161</td>
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<tr>
<td>Analyze, Forecast, &amp; Support</td>
<td>496</td>
<td>486</td>
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<td>486</td>
<td>498</td>
<td>0.40%</td>
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<td>Dissemination</td>
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<tr>
<td>Science &amp; Technology Integration</td>
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<td>132</td>
<td>-4.90%</td>
<td>132</td>
<td>137</td>
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<tr>
<td>National Environmental Satellite, Data &amp; Information Service</td>
<td>2,349</td>
<td>2,304</td>
<td>-1.90%</td>
<td>2,267</td>
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<td>GOES-R Class</td>
<td>872</td>
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<td>753</td>
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<tr>
<td>Joint Polar Satellite System</td>
<td>809</td>
<td>787</td>
<td>-2.70%</td>
<td>787</td>
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<tr>
<td>Polar Follow On</td>
<td>370</td>
<td>383</td>
<td>3.50%</td>
<td>370</td>
<td>383</td>
<td>3.50%</td>
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<td>COSMIC-2</td>
<td>10</td>
<td>16</td>
<td>60.40%</td>
<td>16</td>
<td>8.1</td>
<td>-19.80%</td>
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<tr>
<td>Space Weather Follow On</td>
<td>1.2</td>
<td>2.5</td>
<td>108.30%</td>
<td>2.5</td>
<td>7.5</td>
<td>200.00%</td>
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<tr>
<td>Commercial Weather Data Pilot</td>
<td>3</td>
<td>5</td>
<td>66.70%</td>
<td>6</td>
<td>3</td>
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</tbody>
</table>
## FY17 NASA Appropriations Summary Table

<table>
<thead>
<tr>
<th>Funding Line</th>
<th>FY16 Enacted</th>
<th>FY17 Request*</th>
<th>Change 16-17</th>
<th>House</th>
<th>Change 16-17</th>
<th>Senate</th>
<th>Change 16-17</th>
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<tbody>
<tr>
<td>NASA</td>
<td>19,285</td>
<td>18,262</td>
<td>-5.30%</td>
<td>19,508</td>
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<td>Science</td>
<td>5,589</td>
<td>5,303</td>
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<td>5,597</td>
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<td>5,395</td>
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<td>Earth Science</td>
<td>1,921</td>
<td>1,972</td>
<td>2.70%</td>
<td>1,690</td>
<td>-12.00%</td>
<td>1,984</td>
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<tr>
<td>Planetary Science</td>
<td>1,631</td>
<td>1,391</td>
<td>-14.70%</td>
<td>1,846</td>
<td>13.20%</td>
<td>1,356</td>
<td>-16.90%</td>
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<td>Astrophysics</td>
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<td>697</td>
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<td>793</td>
<td>8.50%</td>
<td>607</td>
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<td>James Webb Space Telescope</td>
<td>620</td>
<td>569</td>
<td>-8.20%</td>
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<td>-8.20%</td>
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<tr>
<td>Heliophysics</td>
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<td>674</td>
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<td>699</td>
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<tr>
<td>Aeronautics</td>
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<td>635</td>
<td>-0.90%</td>
<td>712</td>
<td>11.30%</td>
<td>601</td>
<td>-6.10%</td>
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<tr>
<td>Space Technology</td>
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<td>691</td>
<td>0.60%</td>
<td>739</td>
<td>7.70%</td>
<td>687</td>
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<td>Exploration</td>
<td>4,030</td>
<td>3,164</td>
<td>-21.50%</td>
<td>4,183</td>
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<td>4,330</td>
<td>7.40%</td>
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<tr>
<td>Orion</td>
<td>1,270</td>
<td>1,053</td>
<td>-17.10%</td>
<td>1,350</td>
<td>6.30%</td>
<td>1,300</td>
<td>2.40%</td>
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<tr>
<td>Space Launch System</td>
<td>2,000</td>
<td>1,230</td>
<td>-38.50%</td>
<td>2,000</td>
<td>0.00%</td>
<td>2,150</td>
<td>7.50%</td>
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<tr>
<td>Space Operations</td>
<td>5,029</td>
<td>5,076</td>
<td>0.90%</td>
<td>4,890</td>
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<td>International Space Station</td>
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<tr>
<td>Education</td>
<td>115</td>
<td>100</td>
<td>-13.00%</td>
<td>115</td>
<td>0.00%</td>
<td>108</td>
<td>-6.10%</td>
</tr>
</tbody>
</table>

* Excludes $763 million in proposed mandatory spending, of which $298 million is for Science, $173 million is for Exploration, $160 million is for Aeronautics, and $136 million is for Space Technology.
## FY17 NSF Appropriations Summary Table

<table>
<thead>
<tr>
<th>Funding Line</th>
<th>FY15 Actual</th>
<th>FY16 Enacted</th>
<th>FY17 Request*</th>
<th>Change 16-17</th>
<th>House</th>
<th>Change 16-17</th>
<th>Senate</th>
<th>Change 16-17</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSF</td>
<td>7,398</td>
<td>7,464</td>
<td>7,564</td>
<td>1.30%</td>
<td>7,406</td>
<td>-0.80%</td>
<td>7,510</td>
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<tr>
<td>Research &amp; Related Activities</td>
<td>6,042</td>
<td>6,034</td>
<td>6,079</td>
<td>0.80%</td>
<td>6,079</td>
<td>0.80%</td>
<td>6,034</td>
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<tr>
<td>Biological Sciences</td>
<td>736</td>
<td>744</td>
<td>746</td>
<td>0.20%</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Computer &amp; Information Science &amp; Engineering</td>
<td>933</td>
<td>936</td>
<td>938</td>
<td>0.30%</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Engineering</td>
<td>924</td>
<td>916</td>
<td>946</td>
<td>3.30%</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Geosciences</td>
<td>1,319</td>
<td>1,319</td>
<td>1,320</td>
<td>0.10%</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Mathematical &amp; Physical Sciences</td>
<td>1,376</td>
<td>1,349</td>
<td>1,355</td>
<td>0.40%</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Social, Behavioral &amp; Economic Sciences</td>
<td>276</td>
<td>272</td>
<td>272</td>
<td>0.10%</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Education &amp; Human Resources</td>
<td>886</td>
<td>880</td>
<td>899</td>
<td>2.10%</td>
<td>880</td>
<td>0.00%</td>
<td>880</td>
<td>0.00%</td>
</tr>
<tr>
<td>Major Research Equipment &amp; Facilities Construction</td>
<td>145</td>
<td>200</td>
<td>193</td>
<td>-3.60%</td>
<td>87</td>
<td>-56.50%</td>
<td>247</td>
<td>23.10%</td>
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<tr>
<td>Regional Class Research Vessels</td>
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<td>-</td>
<td>106</td>
<td>-</td>
<td>-</td>
<td>160-</td>
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<tr>
<td>Large Synoptic Survey Telescope</td>
<td>80</td>
<td>100</td>
<td>67</td>
<td>-32.70%</td>
<td>67</td>
<td>-32.70%</td>
<td>67</td>
<td>-32.70%</td>
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<tr>
<td>Daniel K. Inouye Solar Telescope</td>
<td>25</td>
<td>20</td>
<td>20</td>
<td>0.00%</td>
<td>-</td>
<td>-</td>
<td>20</td>
<td>0.00%</td>
</tr>
</tbody>
</table>

* Excludes $400 million in proposed mandatory spending, of which $346 million is for Research & Related Activities and $54 million is for Education & Human Resources.
2016-2017 Highlights

Goal: Advocate for higher funding for the science agencies on the Hill and at OMB (UCAR Strategic Plan)

FY17 President’s Budget Highlights

1. National Science Foundation (NSF) up 6.7% (with Mandatory) and 1.3% percent (Mandatory dollars removed)
   Geosciences (GEO) up 6.1% (with Mandatory) and 0.1 % (Mandatory dollars removed)
   National Center for Atmospheric Research (NCAR) up 1.3% from $99.7M to $101M (but entirely mandatory)

2. NASA Earth Science up 2.7% in request with House down 12% and Senate up 3.3%

3. National Oceanic and Atmospheric Administration (NOAA) up 1.4 percent (No Mandatory)
   a. COSMIC II (Two funding lines that total $16.2M)
      Ground System up $3.3M to a total of $8.1M
      2nd Constellation in Polar Plane not funded at $8.1 (ON HOLD FROM CONGRESS)
   b. Airborne Phased Array Radar (APAR)
      R&D program funded at $4.6M (strong Senate support)
Year in Review
Congressional and State Action

1. Currently under CR for FY17 until at least December 9, 2016
2. Weather Bills a Real Possibility!
3. Space Weather a Possibility!
4. American Innovation and Competitiveness Act a Possibility (but a heavier lift!)
5. NASA Reauthorization a Real Possibility! (but light on science)

GET READY FOR THE LAME DUCK!?!?
Year in Review (VIP Visits)
Year in Review (VIP Visits)

Senator Michael Bennet

Senator Gary Peters
Dr. Thomas Zurbuchen

Senator Cory Gardner
Year in Review (VIP Visits)
Year in Review (VIP Visits)

AMS Policy Colloquium
Western States Water Council (WSWC)
Western Governors Association (WGA)
Governor John Hickenlooper (CO)
Governor Matthew Mead (WY)
United States Air Force 557th Squadron
CEO of Weather Channel Television Network
Members of House Science Subcommittee on Basic Research
Staff of US Senator Cory Gardner
Staff of US Senator Michael Bennet
Technical Director, United States Navy
Center for Ocean Leadership’s 2016 Public Policy Forum
National Renewable Energy Laboratory
House Appropriations Staff
Senate Appropriations Staff
OMB Staff for NSF, NOAA, USAF and NASA
OSTP
NOAA Leadership
NSF, NOAA, DOE and NASA Program Managers
# A Few UCAR Advocacy Metrics

## Washington Updates

<table>
<thead>
<tr>
<th>FY 2015</th>
<th>FY 2016</th>
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</thead>
<tbody>
<tr>
<td>Number of updates sent</td>
<td>Number of Washington Updates</td>
</tr>
<tr>
<td>7</td>
<td>6</td>
</tr>
<tr>
<td>Number of recipients</td>
<td>Number of recipients</td>
</tr>
<tr>
<td>1030</td>
<td>1090</td>
</tr>
<tr>
<td>Average open rate</td>
<td>Average open rate</td>
</tr>
<tr>
<td>43 percent</td>
<td>43 percent</td>
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## Action Alerts

<table>
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<tr>
<th>FY 2015</th>
<th>FY 2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Action Alerts</td>
<td>Number of Action Alerts</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>• Support NSF+GEO February – 222 recipients</td>
<td>• FY17 Budget - March</td>
</tr>
<tr>
<td>• America Compete April – 209 recipients</td>
<td>• Earth Science Week - October</td>
</tr>
<tr>
<td>• America Competes July – 761 recipients</td>
<td>• Continuing Resolution Update - October</td>
</tr>
<tr>
<td>Average open rate</td>
<td>Average open rate</td>
</tr>
<tr>
<td>51 percent</td>
<td>188 recipients, open rate 40 percent</td>
</tr>
</tbody>
</table>

## AMS Policy Colloquium

- Scott Ellis (NCAR EOL)
- Elizabeth Page (UCP)
UCAR Congressional Briefing (Part I)

Aviation Weather Safety

Promote the atmospheric sciences in Congress (March 2016)

• **Bruce Carmichael**, Director, Aviation Applications Program, National Center for Atmospheric Research
• **Steven Hampton**, Professor, College of Aviation, Embry-Riddle Aeronautical University
• **Doug Olsen**, Project Manager, Center for Unmanned Aircraft Systems, University of North Dakota
• **Captain Joe Burns**, Chief Executive Officer, Sensurion Aerospace
  - 85 to 90 attendees (House, Senate and Executive Branch Staff)

*Watch it on the AtmosNews YouTube channel*
UCAR Congressional Briefing (Part II)
Predicting Space Weather

Promote the atmospheric sciences in Congress (August 2016)

- Scott McIntosh, Director, NCAR High Altitude Observatory, Boulder, Colorado
- Thomas Zurbuchen, Professor of Space Science and Aerospace Engineering, University of Michigan, Ann Arbor
- Conrad Lautenbacher, CEO, GeoOptics Inc., Pasadena, California, Vice Admiral (Retired), U.S. Navy
- 80 to 85 attendees (House, Senate and Executive Branch Staff)

Watch it on the AtmosNews YouTube channel
UCAR Congressional Briefing (Part III) Water

Promote the atmospheric sciences in Congress (September, 2016)

- Edward Clark, Geo-Intelligence Division, NOAA, Washington, DC
- David Gochis, Hydrometeorological Applications Program, Research Applications Lab, NCAR
- Richard Hooper, Consortium of Universities for the Advancement of Hydrologic Science, Medfor, MA
- Ryan Emanuel, Dept. of Forestry & Environmental Resources, North Carolina State Univ., Raleigh, NC
- John McHenry, Advanced Meteorological Systems, Baron Services, Raleigh, NC
  - 85 to 95 attendees (House, Senate and Executive Branch Staff)

Will be on YouTube soon!
UCAR Advocacy for the Science Community (UASC)

Goals of U-ASC:

• U-ASC will serve as a two-way conduit between the Members and UCAR to ensure communication on public policy issues impacting the health of the atmospheric sciences and related sciences;

• Assist in establishing UCAR’s government relations agenda and ensuring that it accurately reflects the interests of UCAR and its Members;

• Ensure timely, fact-based information is regularly provided to UCAR and its Members on governmental issues impacting the atmospheric science community;

• Develop position statements, as appropriate and necessary, on behalf of UCAR and its Members on issues within the government relations agenda as well as actions taken by Congress and/or the Administration on matters affecting the atmospheric science community; and

• Take actions, set priorities, and provide the necessary guidance to advance the government relations agenda.
UCAR Advocacy for the Science Community (UASC)

BOT Members (3)
Roberta Balstad (California)
Everette Joseph (New York)
Michael Morgan (Wisconsin)

At-Large (3)
Paul Higgins, AMS, Washington, DC
David Goldston, Natural Resources Defense Council, Washington, DC
Frank Nutter, Reinsurance Association of America, Washington, DC

Membership (6-8)
Richard Clark, Millersville (PA)*
Alan Gertler, DRI (NV)
Kevin Reed, Stony Brook (NY)*
Carol Anne Clayson, WHOI (MA)*
Ken Bowman, Texas A&M (TX)
Berrien Moore, Univ. of OK (OK)*
Amanda Lynch, Brown University (RI)*
Marshall Shepherd, Univ. of Georgia (GA)*

*--denotes current member representative
UCAR Nominations For Key Science Leadership Positions
Website*

https://president.ucar.edu/president/community-nominations-key-leadership-2016

*--will be provided in meeting follow up materials
Memo to the 45th President

Date: November 2016

To: The Administration of the 45th President of the United States

Subject: Recommended Research and Education Priorities for the Federal Investment in the Academic Atmospheric, Earth, and Related Sciences

The University Corporation for Atmospheric Research (UCAR), representing more than 130 member colleges and universities, respectfully submits this white paper recommending a list of research priorities for the academic atmospheric, earth, and related sciences to the new Administration and the 115th Congress.

A focused investment of Federal resources in the atmospheric, earth, and related sciences will make significant contributions toward meeting important societal needs including protection of American lives and property, expansion of new economic opportunities, enhancement of national security, and strengthening the U.S. leadership in research and development. This white paper focuses on the challenges and importance of investing in the following priority areas:

- Weather
- Water
- Climate
- Air Quality
- Space Weather
- Education

These recommendations relate directly to the Federal agencies for which the atmospheric, earth, and related sciences play an important role in their various missions – including the Office of Science and Technology Policy (OSTP), the National Science Foundation (NSF), the National Oceanic and Atmospheric Administration (NOAA), the National Aeronautics and Space Administration (NASA), the Department of Energy (DOE), the Department of Agriculture (USDA), the Federal Aviation Administration (FAA), the Department of Defense (DOD), the Department of Homeland Security (DHS), the Department of the Interior (DOI), the Environmental Protection Agency (EPA), and others.

The recommendations are also consistent with pending legislation including the American Innovation and Competitiveness Act, the Weather Research and Forecasting Innovation Act of 2013, the Seasonal Forecasting Improvement Act, the Space Weather Research and Forecasting Act, as well as current and past guidance provided by the House and Senate Appropriations Committees.

This UCAR white paper also supports and builds on the May 2016 American Meteorological Society (AMS) Policy Statement on Weather, Water, and Climate Priorities. In that statement the AMS defined the need for continued development of people, knowledge, observing capabilities, physical and cyber infrastructure, and the need for a robust partnership between the public, private, and academic sections of the weather, water, and climate enterprise.

UCAR is a non-profit corporation of more than 130 North American member colleges and universities focused on research and training in the atmospheric, earth, and related sciences. Founded in 1942 to manage the National Center for Atmospheric Research (NCAR) on behalf of the NSF, today UCAR’s mission is to empower its Member Institutions and NCAR by promoting research excellence, developing fruitful collaborations, managing unique resources, creating new capabilities, building critical applications, expanding educational opportunities, and engaging in effective advocacy.
Future Advocacy

HOLD THE DATE:
UCAR Congressional Briefing - February 2017
on a TBD Topic

***UCAR Ask Going Forward***

1. Engage with Policy Makers!

2. Help us to create a bigger network on Capitol Hill so we can educate folks about why our atmospheric science programs are critical to the country—if you are in DC let us know!

3. Briefings on how to communicate with policy makers was not by accident. We can help you to brief members and staff. There are different approaches and we are a resource.

4. Eventual goal of a Weather Day on the Hill (similar to the one the Oceans community has) as well as Earth Science Week a long term goal!
UCAR Director of Washington Operations

Mr. Ari Gerstman
1201 New York Avenue, NW
Washington, DC
P: 202-787-1624
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A Community Resource!
Please reach out when you are in DC
Assistance in arranging visits to Hill and Agencies
UCAR DC Office is available—it is your office!
Place to sit for day and small meeting space
Source for federal budget information
Congressional Briefing Survival Kit
2016 Advocacy Award Winners

Thank you to these members who participated in our Washington, DC Congressional Briefs

1. Edward Clark, Geo-Intelligence Division, NOAA, Tuscaloosa, AL
2. David Gochis, Hydrometeorological Applications Program, Research Applications Lab, NCAR
3. Richard Hooper, Consortium of Universities for the Advancement of Hydrologic Science, Medford, MA
4. Ryan Emanuel, Dept. of Forestry & Environmental Resources, North Carolina State Univ., Raleigh, NC
5. John McHenry, Advanced Meteorological Systems, Baron Services, Raleigh, NC
6. Scott McIntosh, Director, NCAR High Altitude Observatory, Boulder, Colorado
7. Thomas Zurbuchen, Professor of Space Science and Aerospace Engineering, University of Michigan, Ann Arbor
8. Conrad Lautenbacher, CEO, GeoOptics Inc., Pasadena, California, Vice Admiral (Retired), U.S. Navy
9. Bruce Carmichael, Director, Aviation Applications Program, National Center for Atmospheric Research
10. Steven Hampton, Professor, College of Aviation, Embry-Riddle Aeronautical University
11. Doug Olsen, Project Manager, Center for Unmanned Aircraft Systems, University of North Dakota
12. Joe Burns, Chief Executive Officer, Sensurion Aerospace
The UCAR Strategic Plan 2015-2020 contains the following goal: *Advance the cause of our community by advocating for the intrinsic societal value of our research activities.* With respect to this goal the Plan states:

No other institution in the atmospheric and related sciences community has the breadth of representation that resides in UCAR’s membership of more than 100 campuses across North America. This vibrant network... is leveraged further by strong working relationships with federal agencies, nonprofits, private firms, and other partners in the weather, water, and climate enterprise. We will work diligently with these partners to present clear and coordinated advocacy for the atmospheric sciences. As a voice for the atmospheric and related sciences, UCAR plays an active role in informing our consortium about legislative developments of interest to members. UCAR’s advocacy work also includes helping researchers throughout our broader community to bring their perspectives to the public sphere and to the attention of policy and decision makers. *The ultimate goal of UCAR advocacy is to strengthen the atmospheric and related sciences and to maximize their value to the nation and the world at large.* (emphasis added)

To achieve this goal and more effectively serve to *strengthen the atmospheric and related sciences*, the President of the University Corporation for Atmospheric Research, based on advice and input provided by UCAR Trustees and UCAR Members, will establish an ad hoc committee, the UCAR Advocacy for the Science Community (U-ASC), effective with the February 2016 meeting of the UCAR Trustees.
UCAR Nominations Website