

National Report to SCAR for year: 2014-2015

MEMBER COUNTRY: USA

| Activity | Contact Name | Address | Email | web site |
|----------|--------------|---------|-------|----------|
|----------|--------------|---------|-------|----------|

**NATIONAL SCAR COMMITTEE**

|  |               |  |                 |  |
|--|---------------|--|-----------------|--|
| <b>The National Academies Polar Research Board</b> | Laurie Geller | Senior Program Officer, Staff to Delegation<br>U.S. Polar Research Board<br>National Academy of Sciences<br>500 Fifth Street NW (K-633)<br>Washington DC 20001 | lgeller@nas.edu |  |
|--|---------------|--|-----------------|--|

**SCAR DELEGATES**

|   |               |   |                            |  |
|---|---------------|---|----------------------------|--|
| <b>1 Delegate/<br/>President, Executive Committee</b> | Terry Wilson  | School of Earth Sciences<br>Ohio State University<br>275 Mendenhall Lab<br>125 S Oval Mall<br>Columbus, OH 43210                            | twilson@mps.ohio-state.edu |  |
| <b>2 Alternate Delegate</b>                           | Deneb Karentz | Departments of Biology and Environmental Science<br>HR 347<br>University of San Francisco<br>2130 Fulton Street<br>San Francisco, CA 94117- | karentzd@usfca.edu         |  |

**STANDING SCIENTIFIC GROUPS**

**LIFE SCIENCES**

|   |                       |  |  |  |
|---|-----------------------|--|--|--|
| 1 | Prof Charles D Amsler | Department of Biology<br>University of Alabama at Birmingham<br>Campbell Hall 367<br>1720 2nd Avenue South,<br>CH464   | <a href="mailto:amsler@uab.edu">amsler@uab.edu</a>                   |  |
| 2 | Prof Byron Adams      | Department of Biology<br>Brigham Young University<br>4127 LSB<br>Provo, UT 84602   | <a href="mailto:byron_adams@byu.edu">byron_adams@byu.edu</a>         |  |
| 3 | Dr Georges M Watters  | Antarctic Ecosystem<br>Research Division (AERD)<br>NOAA Fisheries<br>Southwest Fisheries Science Center<br>8901 La Jolla Shores Drive<br>La Jolla, CA 92037-1508 | <a href="mailto:george.watters@noaa.gov">george.watters@noaa.gov</a> |  |

| Activity | Contact Name     | Address  | Email  | web site |
|----------|------------------|--|--|----------|
| 4        | Dr Marc Shepanek | Deputy Chief of Medicine of<br>Extreme Environments<br>NASA Headquarters<br>300 E Street SW<br>Washington, DC 20024-3210 | <a href="mailto:marc.a.shepanek@nasa.gov">marc.a.shepanek@nasa.gov</a> |          |

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## GEOSCIENCES

|   |                                |  |  |  |
|---|--------------------------------|--|--|--|
| 1 | Dr W Berry Lyons               | Director<br>Byrd Polar Research<br>Laboratory<br>The Ohio State University<br>1090 Carmack Road<br>Columbus, OH 43210-1002                                       | <a href="mailto:lyons.142@osu.edu">lyons.142@osu.edu</a> |  |
| 2 | Dr Samantha Hansen             | Associate Professor of<br>Geological Sciences<br>University of Alabama<br>2031 Beville Bldg.<br>Tuscaloosa, AL 35487   | <a href="mailto:shansen@ua.edu">shansen@ua.edu</a>       |  |
| 3 | Prof Sridhar<br>Anandakrishnan | Department of Geosciences<br>Earth and Environmental<br>Systems Institute<br>Pennsylvania State<br>University<br>442 Deike Building<br>University Park, PA 16802 | <a href="mailto:sak@essc.psu.edu">sak@essc.psu.edu</a>   |  |

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## PHYSICAL SCIENCES

|   |                  |   |  |  |
|---|------------------|---|--|--|
| 1 | Dr John Cassano  | Associate Professor of<br>Physics<br>Siena College<br>Department of Physics<br>515 Loudon Road<br>Loudonville, NY 12211-1462  | <a href="mailto:john.cassano@colorado.edu">john.cassano@colorado.edu</a> |  |
| 2 | Prof Erin Pettit | Professor, Department of<br>Atmospheric Sciences,<br>College of Engineering<br>University of Wyoming<br>Dept 3038, 1000 E University<br>Avenue<br>Laramie, WY 82071 | <a href="mailto:pettit@gi.alaska.edu">pettit@gi.alaska.edu</a>           |  |

| <b>Activity</b> | <b>Contact Name</b>      | <b>Address</b>  | <b>Email</b>             | <b>web site</b> |
|-----------------|--------------------------|---|--------------------------|-----------------|
| <b>3</b>        | Dr Allan T<br>Weatherwax | Research Professor and<br>Director<br>Ultra-Trace Chemistry<br>Laboratory<br>Desert Research Institute<br>2215 Raggio Parkway<br>Reno, NV 89512 | weatherwax@merrimack.edu |                 |

## SCIENTIFIC RESEARCH PROJECTS

### AAA

|  |                  |  |                                 |  |
|--|------------------|--|---------------------------------|--|
| <b>1 Steering Committee</b>  | Albrecht Karle   | Physics Department<br>University of Wisconsin-<br>Madison<br>1150 University Avenue<br>Madison, WI 53706-1390  | albrecht.karle@icecube.wisc.edu |  |
| <b>2 Steering Committee</b>  | James Lloyd      | 230 Space Sciences Building<br>Cornell University<br>Ithaca, NY 14850  | jpl@astro.cornell.edu           |  |
| <b>3 Chair, Working<br/>Group A: Site testing,<br/>validation and data<br/>archiving</b> | Tony Travouillon | TMT project 102-08<br>Caltech<br>1200 E. California Blvd<br>CA 91125 USA                                       | tonyt@astro.caltech.edu         |  |
| <b>4 Working Group D:<br/>Major new facilities</b>                                       | Lifan Wang       | MIST M515<br>Texas A&M University<br>College Station, TX<br>77843  | wang@physics.tamu.edu           |  |
| <b>5 Working Group D:<br/>Major new facilities</b>                                       | Don York         | University of Chicago<br>Department of Astronomy<br>and Astrophysics<br>5640 S. Ellis Ave<br>Chicago, IL 60637 | donoddjob.uchicago.edu          |  |
| <b>6 Working Group D:<br/>Major new facilities</b>                                       | Wei Zheng        | Johns Hopkins University<br>Physics-Astronomy Dept<br>CAS<br>Charles and 34th Str<br>Baltimore MD 21218-2686   | zheng@pha.jhu.edu               |  |

| <b>Activity</b>   | <b>Contact Name</b> | <b>Address</b>   | <b>Email</b>               | <b>web site</b> |
|---|---------------------|--|----------------------------|-----------------|
| <b>ANTARCTIC CLIMATE CHANGE IN THE 21ST CENTURY (ANTCLIM21)</b> |                     |  |                            |                 |
| <b>1 Steering Committee</b>                                     | Alia Khan           | University of Colorado   | alialauren@gmail.com       |                 |
| <b>2 Steering Committee</b>                                     | Paul Mayewski       | University of Maine  | Paul.Mayewski@maine.edu    |                 |
| <b>3 Steering Committee</b>                                     | Joellen Russell     | University of Arizona  | jrussell@email.arizona.edu |                 |
| <b>4</b>  | David Schneider     | National Center for<br>Atmospheric Research                                  | dschneid@ucar.edu          |                 |
| <b>5</b>  | Sam Birkel          | University of Maine  | sbirke61@maine.edu         |                 |
| <b>6</b>  | Andrew Carleton     | Pennsylvania State<br>University   | amc7@psu.edu               |                 |
| <b>7</b>  | Isabella Velicogna  | University of California Irvine<br>and California Institute of<br>Technology | isabella@uci.edu           |                 |
| <b>8</b>  | Qinghua Ding        | University of Washington   | qinghua@u.washington.edu   |                 |
| <b>9</b>  | Eric Larour         | NASA Jet Propulsion<br>Laboratory  | eric.larour@jpl.nasa.gov   |                 |
| <b>10</b>   | Walter Meier        | NASA   | walter.n.meier@nasa.gov    |                 |
| <b>11</b>   | Lorenzo Polvani     | Columbia University  | lmp@columbia.edu           |                 |
| <b>12</b>   | Samantha Stevenson  | University of Hawaii   | slgs@hawaii.edu            |                 |
| <b>13</b>   | Reed Scherer        | Northern Illinois University   | Reed@niu.edu               |                 |

| <b>Activity</b> | <b>Contact Name</b> | <b>Address</b>              | <b>Email</b>               | <b>web site</b> |
|-----------------|---------------------|-----------------------------|----------------------------|-----------------|
| 14              | Rob DeConto         | University of Massachusetts | deconto@geo.umass.edu      |                 |
| 15              | Joey Comiso         | NSA                         | Josefino.c.comiso@nasa.gov |                 |
| 16              | David Pollard       | PennState University        | pollard@essc/psu.edu       |                 |
| 17              | David Ferreira      | University of Reading       | d.g.ferreira@reading.ac.nz |                 |

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**STATE OF THE ANTARCTIC ECOSYSTEM (ANTECO)**

|   |               |     |                       |  |
|---|---------------|-----|-----------------------|--|
| 1 | Alison Murray | DRI | Alison.Murray@dri.edu |  |
|---|---------------|-----|-----------------------|--|

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**ANTARCTIC THRESHOLDS - ECOSYSTEM RESILIENCE AND ADAPTATION (ANT-ERA)**

|   |             |                               |                          |  |
|---|-------------|-------------------------------|--------------------------|--|
| 1 | Byron Adams | Brigham Young University      | byron_adams@byu.edu      |  |
| 2 | Diana Wall  | Colorado State University     | Diana.Wall@colostate.edu |  |
| 3 | Craig Smith | University of Hawaii at Manoa | craigsmi@hawaii.edu      |  |

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**PAST ANTARCTIC ICE SHEET DYNAMICS (PAIS)**

|  |                   |  |                       |  |
|--|-------------------|--|-----------------------|--|
|  | Robert M. DeConto | Department of Geosciences<br>University of Massachusetts<br>233 Morrill Science Center<br>Amherst, MA 01003-9297 | deconto@geo.umass.edu |  |
|  | Ross D. Powell    | Northern Illinois University   | rpowell@niu.edu       |  |

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**SOLID EARTH RESPONSE AND INFLUENCE ON CRYOSPHERE EVOLUTION (SERCE)**

|  |              |   |                            |  |
|--|--------------|---|----------------------------|--|
|  | Terry Wilson | Ohio State University<br>Department of Geological<br>Sciences 155 South Oval<br>Mall Columbus, OH 43210 | twilson@mps.ohio-state.edu |  |
|--|--------------|---|----------------------------|--|

| <b>Activity</b> | <b>Contact Name</b> | <b>Address</b>        | <b>Email</b>   | <b>web site</b> |
|-----------------|---------------------|-----------------------|----------------|-----------------|
|                 | Hansen, Samantha    | University of Alabama | shansen@ua.edu |                 |

#### **ACTION GROUPS**

|  |                  |  |                                |  |
|--|------------------|--|--------------------------------|--|
| <b>1 Ocean Acidification</b>                             | Nikki Lovenduski | INSTAAR<br>University of Colorado,<br>Boulder<br>Campus Box 450<br>Boulder, CO 80309-0450<br>Polar Rock Repository | nicole.lovenduski@colorado.edu |  |
| <b>2 Geological Heritage and Geoconservation</b>         | Anne Grunow      | Byrd Polar and Climate<br>Research Center<br>The Ohio State University<br>108 Scott Hall                           | grunow.1@osu.edu               |  |
| <b>3 Sun-Earth Relationships and Antarctica (SERAnt)</b> | Allan Weatherwax | Siena College  | aweatherwax@siena.edu          |  |
| <b>4 Snow in Antarctica (SnowAnt)</b>                    | Ludovic Brucker  | NASA Goddard Space Flight<br>Center Cryospheric Sciences<br>Laboratory   | ludovic.brucker@nasa.gov       |  |
| <b>5 Snow in Antarctica (SnowAnt)</b>                    | Lora Koenig      | National Snow and Ice Data<br>Center (NSIDC)   | lkoenig@nsidc.org              |  |

#### **EXPERT GROUPS**

##### **ANTARCTIC DIGITAL MAGNETIC ANOMALY PROJECT (ADMAP)**

|          |                      |  |                                 |  |
|----------|----------------------|--|---------------------------------|--|
| <b>1</b> | Ralph R.B. von Frese | Dept. of Geological Sciences<br>The Ohio State University<br>125 S. Oval Mall<br>Columbus, Ohio 43210    | vonfrese@geology.ohio-state.edu |  |
| <b>2</b> | Carol Finn           | USGS DFC<br>Box 25046, MS 966<br>Denver, CO 80225-0046   | cfinn@usgs.gov                  |  |
| <b>3</b> | Patrick Taylor       | Code 921<br>NASA/GSFC<br>Greenbelt, MD 20771   | ptaylor@ltpmail.gsfc.nasa.gov   |  |
| <b>4</b> | Louis (Skip) Kovacs  | Naval Research Laboratory<br>Marine Geosciences Division<br>4555 Overlook Ave SW<br>Washington, DC 20375 | skip@hp8c.nrl.navy.mil          |  |

| Activity | Contact Name  | Address   | Email                         | web site |
|----------|---------------|---|-------------------------------|----------|
| 5        | Anahita Tikku | Laboratory for Satellite<br>Altimetry<br>E/RA31, SSMC III, Station<br>3712<br>1315 East-West Highway<br>Silver Spring, MD, 20910                              | anahita@amos.grdl.noaa.gov    |          |
| 6        | John Behrendt | INSTAAR<br>University of Colorado<br>Boulder, CO 80309-0450<br>USA  | behrendj@stripe.colorado.edu  |          |
| 7        | Robin Bell    | Research Scientist<br>Lamont-Doherty Earth<br>Observatory<br>Columbia University<br>PO Box 1000, 61 Route 9W<br>Oceanography Bldg 107D<br>Palisades, NY 10964 | robinb@ldeo.columbia.edu      |          |
| 8        | Mike Purucker | Raytheon ITSS at<br>Geodynamics<br>Branch<br>NASA Goddard Space Flight<br>Center<br>Greenbelt, MD, USA 20771  | purucker@geomag.gsfc.nasa.gov |          |

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#### ANTARCTIC PERMAFROST AND SOILS (ANTPAS)

|                  |                |   |                                |  |
|------------------|----------------|---|--------------------------------|--|
| 1 Co-Chairperson | James Bockheim | Department of Soil Science<br>263 Soils Bldg 1525<br>Observatory Drive Madison,<br>WI 53706                                 | bockheim@facstaff.wisc.edu     |  |
| 2                | Stephen Arcone | Cold Regions Research and<br>Engineering Lab<br>72 Lyme Road<br>Hanover, NH 03755-1290                                      | Steven.A.Arcone@usace.army.mil |  |
| 3                | John Barrett   | Department of Biological<br>Sciences<br>Derring Hall RM 1010,<br>Virginia Tech<br>1405 Perry Street<br>Blacksburg, VA 24061 | jebarre@vt.edu                 |  |
| 4                | Norman Bliss   | Science and Applications<br>Branch<br>USGS EROS Data Center<br>Sioux Falls, SD 57198  | bliss@usgs.gov                 |  |

| <b>Activity</b> | <b>Contact Name</b> | <b>Address</b>  | <b>Email</b>                    | <b>web site</b> |
|-----------------|---------------------|---|---------------------------------|-----------------|
| 5               | Scott Borg          | Sciences<br>Office of Polar Programs<br>National Science Foundation<br>4201 Wilson Boulevard<br>Arlington, VA 22230                       | sborg@nsf.gov                   |                 |
| 6               | Jerry Brown         | International Permafrost.<br>Association<br>PO Box 7<br>Woods Hole, MA 02543  | jerrybrown@igc.org              |                 |
| 7               | Gary Clow           | U.S. Geological Survey<br>USGS MS980<br>Box 25046, DFC<br>Denver, CO, 80225   | clow@usgs.gov                   |                 |
| 8               | Beata Csatho        | Geology Department<br>Remote Sensing Lab<br>864 Natural Sciences<br>Complex<br>Buffalo, NY 14260-3050                                     | bcsatho@buffalo.edu             |                 |
| 9               | Cheryl Hallam       | USGS<br>1201 Sunrise Valley Drive<br>Mail Stop 521<br>Reston, VA 20192  | challam@usgs.gov                |                 |
| 10              | John Kimble         | USDA/NRCS<br>Federal Bldg, Rm 152<br>100 Centennial Mall North<br>Lincoln, NE 68508-3866  | john.kimble@nssc.nrcs.usda.gov  |                 |
| 11              | Christopher McKay   | Ames Research Center<br>National Aeronautics and<br>Space Administration<br>Space Science Division<br>MS 245-3<br>Moffett Field, CA 94035 | cMcKay@mail.arc.nasa.gov        |                 |
| 12              | Frederick Nelson    | Department of Geography<br>University of Delaware<br>Pearson Hall 207<br>Newark, DE 19716   | fnelson@udel.edu                |                 |
| 13              | Ron Paetzold        | U.S. Department of<br>Agriculture<br>Natural Resources<br>Conservation Service<br>Federal Building<br>Lincoln NE 68508                    | ron.paetzold@nssc.nrcs.usda.gov |                 |



| <b>Activity</b> | <b>Contact Name</b> | <b>Address</b>   | <b>Email</b>               | <b>web site</b> |
|-----------------|---------------------|--|----------------------------|-----------------|
| 14              | Ross Powell         | Department of Geology and<br>Environmental Geosciences<br>Northern Illinois University<br>Davis Hall 312, Normal Rd.<br>DeKalb, IL 60115 | rpowell@niu.edu            |                 |
| 15              | Mike Prentice       | Department of Geological<br>Sciences<br>Indiana University<br>1001 East 10th Street<br>Bloomington, IN 47405-1405                        | mlprenti@indiana.edu       |                 |
| 16              | Robert Rutherford   | Geosciences Division<br>The University of Texas<br>P. O. Box 830688<br>MS F021<br>Richardson, TX 75083-0688                              | rutherford@utdallas.edu    |                 |
| 17              | Ron Sletten         | Department of Earth and<br>Space Sciences<br>University of Washington<br>Johnson Hall Rm-070, Box<br>351310<br>4000 15th Avenue NE       | sletten@ess.washington.edu |                 |

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#### **EXPERT GROUP ON ANTARCTIC VOLCANISM (ANTVOLC)**

|   |              |  |                    |  |
|---|--------------|--|--------------------|--|
| 1 | Nelia Dunbar | New Mexico Bureau of<br>Geology & Mineral<br>Resources | nelia@nmbg.nmt.edu |  |
| 2 | Kurt Panter  | Bowling Green State<br>University                      | kpanter@bgsu.edu   |  |

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#### **ANTARCTIC SEA-ICE PROCESSES AND CLIMATE (ASPeCt)**

|            |                     |   |                          |  |
|------------|---------------------|---|--------------------------|--|
| 1 Co-Chair | Dr. Steve Ackley    | 118 Castle Lane<br>San Antonio, TX 78213<br>USA                                 | stephen.ackley@utsa.edu  |  |
| 2 Co-Chair | Dr. Marilyn Raphael | Department of Geography<br>1255 Bunche Hall<br>Los Angeles, CA 90095-152<br>USA | Raphael@geog.ucla.edu    |  |
| 3          | Dr. Ron Kwok        | NASA Jet Propulsion<br>Laboratory   | ronald.kwok@jpl.nasa.gov |  |
| 4          | Dr. Thorsten Markus | NASA Goddard Space Flight<br>Center   | thorsten.markus@nasa.gov |  |
| 5          | Ted Maksym          | Woods Hole Oceanographic<br>Institution   | tmaksym@whoi.edu         |  |

| <b>Activity</b>  | <b>Contact Name</b>    | <b>Address</b>  | <b>Email</b>                    | <b>web site</b> |
|--|------------------------|---|---------------------------------|-----------------|
| 6  | Dr. Sharon Stammerjohn | Lamont-Doherty Earth Observatory, Columbia University   | Sharon.Stammerjohn@colorado.edu |                 |
| <b>EXPERT GROUP ON ANTARCTIC BIODIVERSITY INFORMATICS (EG-ABI)</b> |                        |   |                                 |                 |
| 1  | Alison Murray          | DRI   | Alison.Murray@dri.edu           |                 |
| <b>EXPERT GROUP ON BIRDS AND MAMMALS (EGBAMM)</b>                  |                        |   |                                 |                 |
| 1  | Dan Costa              | Long Marine Laboratory<br>University of California<br>100 Shaffer Road<br>Santa Cruz, CA 95060 USA                      | costa@biology.ucsc.edu          |                 |
| <b>GNSS RESEARCH AND APPLICATION FOR POLAR ENVIRONMENT (GRAPE)</b> |                        |   |                                 |                 |
|  | Larry Hothem           | US Geological Survey (USGS), Virginia   | ldhothem@gmail.com              |                 |
|  | Anthea Coster          | MIT Haystack Observatory,<br>Westford, Massachusetts  | ajc@haystack.mit.edu            |                 |
|  | Gary Bust              | Physics Laboratory (JHAPL),<br>Maryland   | Gary.Bust@jhuapl.edu            |                 |
|  | Kshitija Deshpande     | Virginia Polytechnic Institute<br>and State University  | kshitija@vt.edu                 |                 |
| <b>INTEGRATING CLIMATE AND ECOSYSTEM DYNAMICS (ICED)</b>           |                        |   |                                 |                 |
| 1  | Dan Costa              | Long Marine Laboratory<br>University of California<br>100 Shaffer Road<br>Santa Cruz, CA 95060 USA                      | costa@biology.ucsc.edu          |                 |
| 2  | Eileen Hofmann         | Center for Coastal &<br>Physical Oceanography,<br>Old Dominion University<br>4111 Monarch Way,<br>Norfolk, VA 23508, US | hofmann@ccpo.odu.edu            |                 |
| 3  | Walker Smith           | Virginia Institute of<br>Marine Science (VIMS),<br>College of William and<br>Mary, Gloucester Point,<br>VA 23692, US    | wos@vims.edu                    |                 |
| <b>INTERNATIONAL PARTNERSHIPS IN ICE CORE SCIENCES (IPICS)</b>     |                        |   |                                 |                 |
| 1 Co-Chair   | Edward Brooke          | Assoc. Prof.<br>Dept. of Geosciences<br>Oregon State University<br>130 Wilkinson Hall<br>Corvallis, OR 97331-5506       | brooke@geo.oregonstate.edu      |                 |
| 2  | Joan Fitzpatrick       | USGS<br>Box 25046, MS 980<br>Denver, CO 80225   | jfitz@usgs.gov                  |                 |

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|-----------------|---------------------|---|--------------------------|-----------------|
| 3               | Joe McConnell       | Desert Research Institute<br>Division of Hydrological<br>Sciences<br>2215 Raggio Parkway<br>Reno, NV 89512                              | jmconn@dri.edu           |                 |
| 4               | Jeff Severinghaus   | Scripps Institute of<br>Oceanography<br>9500 Gilman Dr.<br>La Jolla, CA 92093-0230  | jseveringhaus@ucsd.edu   |                 |
| 5               | Eric Steig          | Earth and Space Sciences<br>University of Washington<br>Johnson Hall 070<br>Box 351310<br>4000 15th Avenue NE<br>Seattle, WA 98195-1310 | steig@ess.washington.edu |                 |
| 6               | Jim White           | Department of Geological<br>Sciences<br>University of Colorado<br>Boulder<br>1560 30th St<br>Boulder, CO 80309                          | james.white@colorado.edu |                 |

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**OPERATIONAL METEOROLOGY IN THE ANTARCTIC (OpMET)**

|   |                      |   |                                      |  |
|---|----------------------|---|--------------------------------------|--|
| 1 | Arthur Cayette       | SPAWAR/ATS<br>8514 Long Meadow Drive<br>North Charleston, SC 29420  | arthur.cayette@navy.mil              |  |
| 2 | Michael Carmody      | Raytheon Polar Services   | Michael.Carmody@usap.gov             |  |
| 3 | Matt Lazarra         | Antarctic Meteorological<br>Research Center<br>Space Science and<br>Engineering Center<br>University of Wisconsin -<br>Madison<br>1225 West Dayton Street<br>Madison, Wisconsin 53706 | mattl@ssec.wisc.edu                  |  |
| 4 | Pablo Clemente-Colon | NOAA/NESDIS/E/RA World<br>Weather Building, Suite 701<br>5200 Auth Road Camp<br>Springs, Maryland 20746   | pablo.clemente-colon@natice.noaa.gov |  |
| 5 | Jordan Powers        | UCAR  | powers@ucar.edu                      |  |

| <b>Activity</b>  | <b>Contact Name</b> | <b>Address</b>   | <b>Email</b>                | <b>web site</b> |
|--|---------------------|--|-----------------------------|-----------------|
| <b>ICE SHEET MASS BALANCE AND SEA LEVEL (ISMASS)</b>   |                     |  |                             |                 |
| 1  | Dan Dixon           | Climate Change Institute<br>118 Alumni Hall<br>University of Maine<br>Orono, ME 04469            | Daniel.Dixon@umit.maine.edu |                 |
| 2  | David Holland       | New York University<br>251 Mercer Street<br>Room 912<br>New York, NY 10012<br>USA                | david.holland@nyu.edu       |                 |
| <b>JOINT EXPERT GROUP ON HUMAN BIOLOGY AND MEDICINE (JEGHBM)</b>   |                     |  |                             |                 |
| 1  | Marc Shepanek       | NASA Headquarters<br>300 E St. SW<br>Washington DC 20546<br>202 358-2201                         | marc.a.shepanek@nasa.gov    |                 |
| <b>NATIONAL ANTARCTIC DATA CENTRE</b>  |                     |  |                             |                 |
| <b>U.S. Antarctic<br/>Program Data<br/>Coordination Center</b>   | Robert Arko         | Lamont-Doherty Earth<br>Observatory<br>Columbia University<br>61 Route 9W<br>Palisades NY, 10964 | info@usap-data.org          |                 |
| <b>SCAR Database</b>   |                     |  |                             |                 |
| The US is responsible for the Antarctic Master Directory which is part of the Global Change Master Director run by NASA. The AMD can be found at <a href="http://gcmd.gsfc.nasa.gov/KeywordSearch/Home.do?Portal=amd">http://gcmd.gsfc.nasa.gov/KeywordSearch/Home.do?Portal=amd</a> |                     |  |                             |                 |
| SDLS - Hosted by the U.S. Geological Survey Western Coastal & Marine Geology (WCMG Team and U.S. National Science Foundation Office of Polar Programs)   |                     |  |                             |                 |

## U.S. ANTARCTIC PROGRAM RESEARCH PROJECTS, 2014-2015 (BY PRINCIPAL INVESTIGATOR)

Note: Further information on USAP Research projects may be found at

<https://www.usap.gov/scienceSupport/documents/2014-2015%20Science%20Planning%20Summaries.pdf>.

| PRINCIPAL INVESTIGATOR | EVENT NO. | PROJECT TITLE   |
|------------------------|-----------|---|
| Ainley, David          | B-031-M   | Adelle penguin response to climate change at the individual, colony, and metapopulation levels  |
| Albert, Mary           | T-350-M   | Ice Coring and Drilling Services (ICDS) support for WAIS Divide   |
| Anderson, Kent         | G-090-P/S | Global seismograph station at South Pole and Palmer Stations  |
| Aydin, Murat           | I-164-S   | Collaborative Research: A 1,500-meter ice core from South Pole  |
| Barwick, Steven        | A-127-M   | Development of hexagonal radio array for the ARIANNA ultra-highenergy neutrino detector   |
| Bell, Robin            | E G-053-M | MRI-R2: Development of an ice imaging system for monitoring changing ice sheets mounted on the NYANG LC-130   |
| Boggs, Steven Edward   | A-372-M   | LDB-COmppton Spectrometer and Imager (COSI)   |
| Butler, James Hall     | O-257-M/S | UV measurements at McMurdo Station for the NOAA/Global Monitoring Division (GMD) Antarctic UV network   |
| Butler, James Hall     | O-257-M/S | South Pole monitoring for climatic change   |
| Butler, James Hall     | O-264-P   | Collection of atmospheric air for the NOAA/GMD worldwide flask sampling network   |
| Carlstrom, John        | A-379-S   | Cosmological research with the 10-meter South Pole Telescope  |
| Carpenter, Paul        | T-299-M/S | IRIS/PASSCAL seismic support  |
| Chu, Xinzhaoh          | A-130-M   | LiDAR Investigation of middle and upper atmosphere temperature, composition, chemistry, and dynamics at McMurdo, Antarctica   |
| Clauer, C. Robert      | A-106-M/S | Polar Experiment Network for Geospace Upper-atmosphere Investigations (PENGUIn): Interhemispheric investigations along the 40-degree magnetic meridian                |
| Conde, Mark Gerard     | A-343-M/S | High-resolution mapping of thermospheric wind and temperature fields near the equatorward edge of the Antarctic polar cap   |
| Conway, Howard         | I-209-M   | Deglaciation of the Ross Sea Embayment - constraints from Roosevelt Island  |
| Doran, Peter           | C-511-M   | McMurdo LTER - Lakes: Increased connectivity in a polar desert resulting from climate warming: McMurdo Dry Valley LTER Program  |
| Ducklow, Hugh William  | C-045-L/P | Palmer Long Term Ecological Research (LTER): Looking back in time through marine ecosystem space, microbial ecology component   |
| Durbin, Edward G       | B-014-N   | Euphausia superba feeding using DNA analysis of gut contents  |
| Evenson, Paul          | A-118-S   | Collaborative Research: Element composition of high energy solar particles  |
| Evenson, Paul          | A-120-M   | Neutron monitor observations of cosmic rays from Jang Bogo and McMurdo Station  |
| Fraser, Bill           | C-013-L/P | Palmer Long Term Ecological Research (LTER): Looking back in time through marine ecosystem space, apex predator component   |
| Friedlaender, Ari Seth | C-024-L/P | Long Term Ecological Research (LTER) Whale Component  |
| Gerrard, Andrew        | A-111-M/S | Synoptic geospace systems analysis using instrumentation from South Pole and McMurdo Stations   |
| Gooseff, Michael N     | C-504-M   | McMurdo LTER - Glaciers: Increased connectivity in a polar desert resulting from climate warming: McMurdo Dry Valleys LTER Program                                    |
| Gorham, Peter W        | A-371-M   | Antarctic Impulsive Transient Antenna (ANITA III) experiment  |
| Halzen, Francis        | A-333-S   | IceCube operations and maintenance  |
| Harvey, Ralph          | G-058-M   | Antarctic Search for Meteorites (ANSMET)  |
| Hofmann, Gretchen      | B-134-M   | Ocean acidification seascape: linking natural variability and anthropogenic changes in pH and temperature to performance in calcifying Antarctic marine invertebrates |

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| Jones, William Claude | A-143-M     | Sub-orbital Polarimeter for Inflation Dust and the Epoch of Reionization (SPIDER)   |
| Kemerait, Robert C    | G-078-M     | Dry Valley seismic project  |
| Kim, Stacy            | B-174-M     | Benthic-pelagic coupling in an intact ecosystem: The role of top predators in McMurdo Sound   |
| Kovac, John           | A-149-S     | Imaging the beginning of time from the South Pole: Observations with the full SPUD array  |
| Kulesa, Craig         | A-364-M/S   | High Elevation Antarctic Terahertz (HEAT) telescopes for Dome A and Ridge A   |
| Kyle, Phillip         | G-081-M     | Mount Erebus Volcano Observatory: Operations, Science, and Outreach (MEVOOSO)   |
| LaBelle, James        | A-125-S     | Application of the AGO network to energy transfer in the radiation belts and remote sensing of auroral plasma processes   |
| Lazzara, Matt         | O-283-M/S   | Antarctic Automatic Weather Station (AWS) program   |
| Lubin, Dan            | O-325-M     | Department of Energy ARM West Antarctic Radiation Experiment (AWARE)  |
| Lyons, W. Berry       | C-509-M     | McMurdo LTER - Geochemistry: Increased connectivity in a polar desert resulting from climate warming: McMurdo Dry Valley LTER Program   |
| Martinson, Doug       | C-021-L     | Palmer Long Term Ecological Research (LTER): Looking back in time through marine ecosystem space, physical oceanography component   |
| McKnight, Diane       | C-506-M     | McMurdo LTER - Streams: Increased connectivity in a polar desert resulting from climate warming: McMurdo Dry Valley LTER Program  |
| Mitchell, John W      | A-142-M     | Super Trans-Iron Galactic Element Recorder (SuperTIGER)   |
| Moore, Robert C.      | A-109-M/P/S | Antarctic ELF/VLF observations of Q-bursts, radio atmospheric, and energetic particle precipitation   |
| Morin, Paul           | T-434-M     | The Polar Geospatial Information Center: Joint support  |
| O'Brien, Kristin M.   | B-036-L/P   | Collaborative Research: The physiological and biochemical underpinnings of thermal tolerance in Antarctic notothenioid fishes   |
| Orr, Gerald Dwayne    | A-145-M     | NASA Long Duration Balloon (LDB) support program  |
| Pettit, Joseph R      | T-295-M     | UNAVCO GPS survey support   |
| Powell, Ross          | C-522-M     | Integrative study of marine ice sheet stability and subglacial life habitats - Robotic Access to Grounding-zones for Exploration and Science (RAGES)  |
| Priscu, John          | C-523-M     | GeomicroBiology of Antarctic Subglacial Environments (GBASE) beneath the Mercer and Whillans Ice Streams  |
| Priscu, John          | C-505-M     | McMurdo LTER - Lakes: Increased connectivity in a polar desert resulting from climate warming: McMurdo Dry Valley LTER Program  |
| Romalis, Michael V.   | A-103-S     | Test of Lorentz invariance at the South Pole  |
| Rotella, Jay          | B-009-M     | The demographic consequences of environmental variability and individual heterogeneity in lifehistory tactics of a long-lived Antarctic marine predator   |
| Saba, Grace           | B-068-P     | Synergistic effects of elevated carbon dioxide and temperature on the metabolism, growth, and reproduction of Antarctic krill ( <i>Euphausia superba</i> )  |
| Schwartz, Susan       | C-525-M     | Investigating (un)stable sliding of Whillans Ice Stream and subglacial water dynamics using borehole seismology: A component of the Whillans Ice Stream Subglacial Access Research Drilling (WISSARD) project |
| Sprintall, Janet      | O-260-L     | The Drake Passage high-density XBT/XCTD program   |
| Szuberla, Curt        | T-396-M     | Operation and maintenance of a CTBT class infrasound array at Windless Bight  |
| Taylor, Kendrick      | I-477-M     | WAIS Divide Science Coordination Office (SCO)   |
| Taylor, Michael       | A-119-M/S   | Development of an Antarctic Gravity Wave Imager Network (ANGWIN) for collaborative mesospheric research   |
| Thoman, Bruce         | T-927-M     | NASA/McMurdo Ground Station (MG1)   |
| Tulaczyk, Slawek M    | C-521-M     | Integrative study of marine ice sheet stability and subglacial life habitats - Lake and Ice Stream Subglacial Access Research Drilling (LISSARD)  |
| Wall, Diana           | C-507-M     | McMurdo LTER - Soils: Increased connectivity in a polar desert resulting from climate warming: McMurdo Dry Valley LTER Program  |
| Watters, George       | B-006-N     | NOAA/AMLR Cruise  |
| Wilson, Terry         | G-079-M     | POLENET Antarctica: Investigating links between geodynamics and ice sheets - Phase 2  |