

## ABBREVIATIONS

|                   |   |
|-------------------|---|
| A <sup>2</sup> dc | Antarctic & Arctic Data Consortium  |
| AC                | Arctic Council  |
| ACADIS            | Advanced Cooperative Arctic Data and Information Service                                  |
| ACAP              | Arctic Contaminant Action Program   |
| ACCESS            | Arctic Climate Change, Economy and Society project  |
| ACOBAR            | ACoustic technology for OBServing the interior of the ARctic Ocean                        |
| ACOUS             | Arctic Climate Observations Using Underwater Sound  |
| ADC               | Arctic Data Committee   |
| ADCN              | Arctic Data Coordination Network  |
| ADI Task Force    | AON Design and Implementation Task Force  |
| ADIwg             | Alaska Data Integration working group   |
| AITP              | Advanced Ice-Tethered Platform  |
| AIW               | Arctic Intermediate Water   |
| ALCC              | Arctic Landscape Conservation Cooperative   |
| AMAP              | Arctic Monitoring and Assessment Programme  |
| AMEC              | Arctic Military Environmental Cooperation Programme                                       |
| AO                | Autonomous Okrug  |
| AOFB              | Autonomous Ocean Flux Buoy  |
| AON               | Arctic Observing Network  |
| AOOS              | Alaska Ocean Observing System   |
| AOS               | Arctic Observing Summit   |
| AOV               | Arctic Observing Viewer   |
| Arctic-GRO        | Arctic Great Rivers Observatory   |
| ARCUS             | Arctic Research Consortium of the United States   |
| ARMAP             | Arctic Research Mapping Application   |
| ATOC              | Acoustic Thermometry of Ocean Climate   |
| AWAC Mooring      | Acoustic Wave and Current Mooring   |
| AWS               | Autonomous Weather Station  |
| BAID              | Barrow Area Information Database  |
| BEAC              | Barents Euro-Arctic Council   |
| BOEM              | Bureau of Ocean and Energy Management   |
| BSSN              | Bering Sea Sub-Network  |
| BTF               | Back to the Future project  |
| CAFF              | Conservation of Arctic Flora and Fauna  |
| CALON             | Circum-Arctic Lakes Observation Network   |
| CARMA             | CircumArctic <i>Rangifer</i> Monitoring and Assessment                                    |
| CBM               | Community-Based Monitoring  |
| CBMP              | Circumpolar Biodiversity Monitoring Program   |
| CircHOB           | Circumpolar Health Observatory  |
| CONAS             | Community-based Observing Network for Adaptation and Security                             |
| CSAC              | Chip-Scale Atomic Clock   |
| CSDGM             | Content Standard for Digital Geospatial Metadata  |
| CTD profiler      | Conductivity, Temperature, Density profiler   |
| DAMOCLES          | Developing Arctic Modeling and Observing Capabilities for Long-term Environmental Studies |
| DBM               | Digital Bathymetric Model   |
| DOI               | Department of the Interior  |
| DTM               | Digital Terrain Model   |
| DVLA              | Distributed Vertical Line Array   |
| EAR               | Environmental Assessment Report   |
| ELOKA             | Exchange for Local Observations and Knowledge of the Arctic                               |
| EPOS              | European Plate Observing System   |
| EPPR              | Emergency Prevention, Preparedness and Response   |
| ESFRI             | European Strategy Forum on Research Infrastructures                                       |
| EU                | European Union  |
| FARO              | Forum of Arctic Research Operators  |

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| FGDC     | Federal Geographic Data Committee   |
| GAW      | Global Atmosphere Watch   |
| GCMD     | Global Change Master Directory  |
| GCOS     | Global Climate Observing System   |
| GCW      | Global Cryosphere Watch   |
| GEBCO    | General Bathymetric Chart of the Oceans   |
| GEOS     | Global Earth Observation System of Systems  |
| GIA      | Glacial-Isostatic Adjustment  |
| GINA     | Geographic Information Network of Alaska  |
| GPS      | Global Positioning System   |
| GTN-G    | Global Terrestrial Network for Glaciers   |
| GTN-H    | Global Terrestrial Network for Hydrology  |
| GTN-P    | Global Terrestrial Network for Permafrost   |
| GTOS     | Global Terrestrial Observing System   |
| GTS      | Global Telecommunication System   |
| HHAG     | Human Health Assessment Group   |
| IARPC    | Interagency Arctic Research Policy Committee  |
| IASC     | International Arctic Science Committee  |
| IASH     | International Association of Scientific Hydrology   |
| IASOA    | International Arctic Systems for Observing the Atmosphere   |
| IBCAO    | International Bathymetric Chart of the Arctic Ocean   |
| IBCSO    | International Bathymetric Chart of the Southern Ocean   |
| ICC      | Inuit Circumpolar Council   |
| ICS      | International Circumpolar Surveillance, An Arctic Network for the Surveillance of Infectious Diseases |
| ICSU     | International Council for Science   |
| IGOS     | Integrated Global Observing Strategy  |
| IMO      | International Maritime Organization   |
| InSAR    | Interferometric Synthetic Aperture Radar  |
| INTERACT | International Network for Terrestrial Research and Monitoring in the Arctic                           |
| ION      | Indigenous Observation Network  |
| IPBES    | Intergovernmental Platform on Biodiversity and Ecosystem Services                                     |
| IPY      | International Polar Year  |
| ISAC     | International Study of Arctic Change  |
| ITEX     | International Tundra Experiment   |
| ITK      | Inuit Tapiriit Kanatami   |
| KML      | Keyhole Markup Language   |
| LES      | Long-term Environmental Studies   |
| ILTER    | Long Term Ecological Research network   |
| METNO    | Norwegian Meteorological Institute  |
| MIZ      | Marginal Ice Zone program   |
| MOPP     | Agreement on Cooperation on Marine Oil Pollution, Preparedness and Response in the Arctic             |
| MPA      | Marine Protected Area   |
| MSGL     | Mega-Scale Glacial Lineations   |
| NACG     | North Atlantic Coast Guard Forum  |
| NACP     | North American Carbon Program   |
| NAFO     | Northwest Atlantic Fisheries Organization   |
| NASA     | National Aeronautics and Space Administration   |
| NATO     | North Atlantic Treaty Organization  |
| NC       | Nordic Council  |
| NCP      | Northern Contaminants Program   |
| NEAF     | North-East Atlantic Fisheries   |
| NEON     | National Ecological Observatory Network   |
| NERSC    | Nansen Environmental and Remote Sensing Center  |
| NGEE     | Next Generation Ecosystem Experiments   |
| NMA      | Norwegian Mapping Authority   |
| NNSN     | Norwegian National Seismic Network  |
| NOAA     | National Oceanic and Atmospheric Administration   |

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| NORSAR   | Norwegian Seismic Array   |
| NPAL     | North Pacific Acoustic Laboratory   |
| NPEO     | North Pole Environmental Observatory  |
| NRC      | National Research Council   |
| NRI      | Nunavut Research Institute  |
| NSF      | National Science Foundation   |
| NSIDC    | National Snow and Ice Data Center   |
| NSSI     | North Slope Science Initiative  |
| NSTC     | National Science and Technology Council   |
| OCAP     | Ownership, Control, Access and Possession principles                                  |
| OGC WFS  | Open Geospatial Consortium Web Feature Service  |
| OGC WMS  | Open Geospatial Consortium Web Map Service  |
| OOI      | Ocean Observatories Initiative  |
| OSPAR    | Convention for the Protection of the Marine Environment of the North-East Atlantic    |
| OSSE     | Observing System Simulation Experiment  |
| PAME     | Protection of the Arctic Marine Environment   |
| PARTNERS | Pan-Arctic River Transport of Nutrients, organic matter, and suspended Sediments      |
| PB       | Agreement on the Conservation of Polar Bears  |
| PSTG     | Polar Space Task Group  |
| REST     | Representational State Transfer   |
| RI       | Research Infrastructure   |
| RRR      | Rolling Review of Requirements  |
| RSN      | Regional Scale Node   |
| RUSALCA  | Russian-American Long-term Census of the Arctic                                       |
| SAON     | Sustaining Arctic Observing Networks  |
| SAON CON | SAON Committee on Observations and Networks   |
| SAR      | Agreement on Cooperation on Aeronautical and Maritime Search and Rescue in the Arctic |
| SCAP     | Standing Committee of the Conference of Arctic Parliamentarians                       |
| SCE      | Snow Cover Extent   |
| SCICEX   | SCience ICe EXercise  |
| SDWG     | Sustainable Development Working Group   |
| SEARCH   | Study of Environmental Arctic Change  |
| SIOS     | Svalbard Integrated Arctic Earth Observing System                                     |
| SIZONET  | Seasonal Ice Zone Observing Network   |
| SOAP     | Simple Object Access Protocols  |
| SPIT     | Treaty Concerning the Archipelago of Spitsbergen, and Protocol                        |
| TAO      | Tropical Atmosphere Ocean array   |
| TAP      | Transarctic Acoustic Propagation experiment   |
| THAAW    | THin-ice Arctic Acoustic Window experiment  |
| TK       | Traditional Knowledge   |
| TSP      | Thermal State of Permafrost project   |
| UNCLOS   | United Nations Convention on the Law of the Sea                                       |
| UNESCO   | United Nations Educational, Scientific and Cultural Organization                      |
| USCRN    | United States Climate Reference Network   |
| USGS     | United States Geological Survey   |
| UUV      | Unmanned Underwater Vehicle   |
| VLBI     | Very Long Baseline Interferometry   |
| WDS      | World Data System   |
| WIGOS    | WMO Integrated Global Observing System  |
| WIS      | WMO Information Service   |
| WMO      | World Meteorological Organization   |
| WOC      | World Ocean Council   |
| WQMN     | Water Quality Monitoring Network  |