



NSF MAJOR RESEARCH INFRASTRUCTURE SPANS THE GLOBE



NATIONAL CENTER FOR ATMOSPHERIC RESEARCH

The NCAR Mauna Loa Solar Observatory

NCAR Marshall Field Site

NCAR-Wyoming Supercomputing Center

NCAR RESEARCH AVIATION FACILITY

NSF/NCAR G-V NSF/NCAR C-130



POLAR PROGRAMS - ARCTIC

Toolik Field Station, Alaska Summit Station, Greenland



GEODETTIC FACILITY FOR THE ADVANCEMENT OF GEOSCIENCES



U.S. ACADEMIC RESEARCH FLEET: NSF-OWNED RESEARCH VESSELS

- R/V Sikuliaq
- R/V Endeavor
- Under Construction - RCRV Gilbert R Mason
- Under Construction - RCRV Taani
- Under Construction - RCRV Narragansett Dawn



NATIONAL ECOLOGICAL OBSERVATORY NETWORK

GROUND-BASED ASTRONOMY AND ASTROPHYSICS

NATIONAL SOLAR OBSERVATORY

Daniel K. Inouye Solar Telescope



NATIONAL RADIO ASTRONOMY OBSERVATORY

Central Development Laboratory

Atacama Large Millimeter/submillimeter Array

Very Long Baseline Array, Very Large Array

NSF'S NATIONAL OPTICAL-INFRARED ASTRONOMY RESEARCH LABORATORY

Kitt Peak National Observatory

Gemini North and South Telescopes

Cerro Tololo Inter-American Observatory

Vera C. Rubin Observatory

Community Science and Data Center

Laser Interferometer Gravitational-Wave Observatory

Green Bank Observatory

Arecibo Observatory

IceCube Neutrino Observatory



POLAR PROGRAMS - ANTARCTIC

RV Nathaniel B. Palmer (icebreaker)

RV Laurence M. Gould (ice-strengthened vessel)

Palmer Station

Amundsen-Scott South Pole Station

McMurdo Station

INTERNATIONAL OCEAN DISCOVERY PROGRAM

JOIDES Resolution (oceanwide deep sea drilling ship)



NATIONAL HIGH MAGNETIC FIELD LABORATORY



LEADERSHIP CLASS COMPUTER FACILITY PHASE 1 - FRONTERA



SEISMOLOGICAL FACILITY FOR THE ADVANCEMENT OF GEOSCIENCES



OCEAN OBSERVATORIES INITIATIVE

- Irminger Sea Array
- Station PAPA Array
- Pioneer Array
- Regional Cabled Array
- Endurance Array

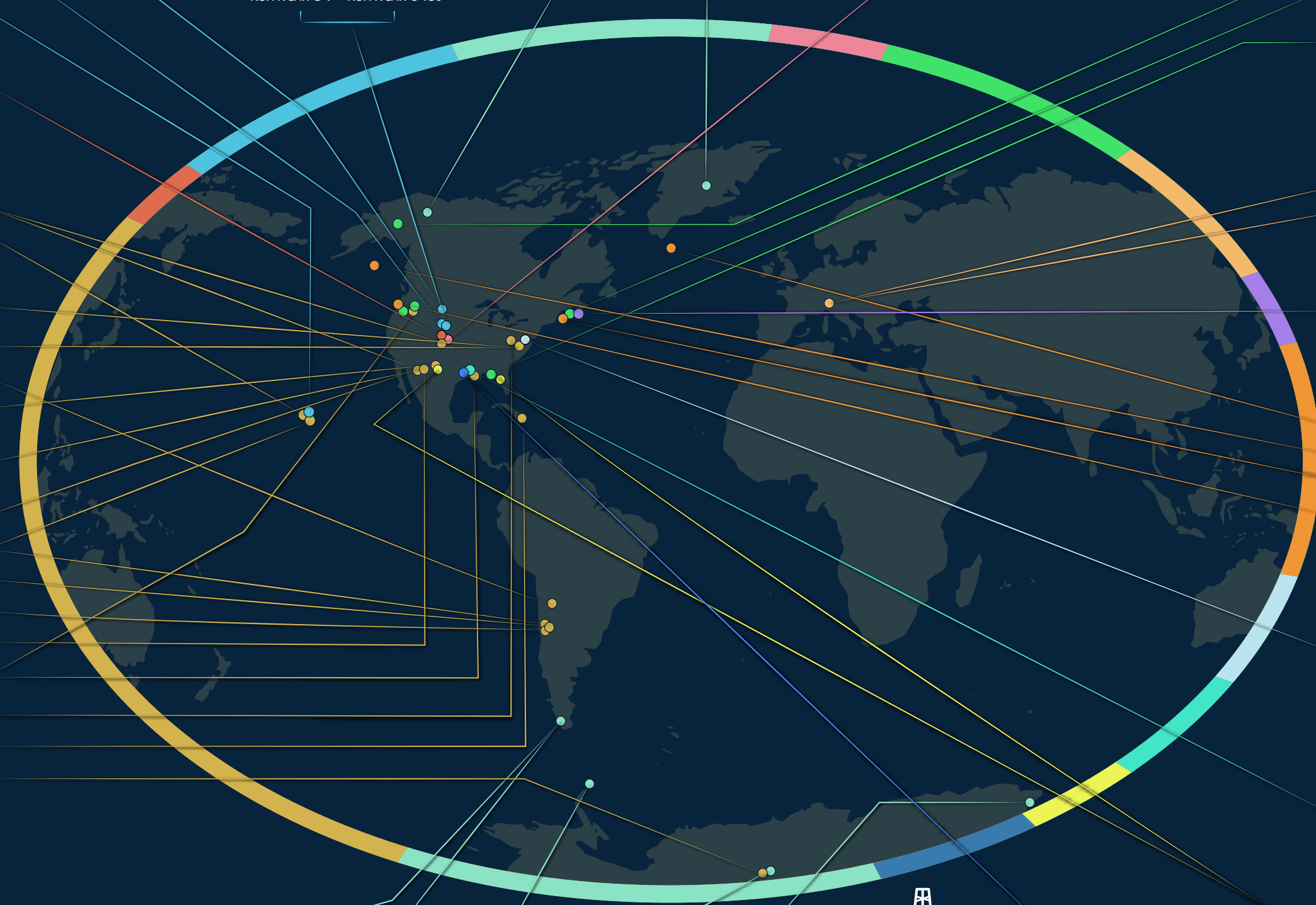


NATIONAL DEEP SUBMERGENCE FACILITY



LARGE HADRON COLLIDER

A Toroidal LHC Apparatus Compact Muon Solenoid





NSF MAJOR RESEARCH INFRASTRUCTURE SPANS THE GLOBE



GEODETIC FACILITY FOR THE ADVANCEMENT OF GEOSCIENCES

GAGE is a distributed, multiuser, national facility for the development, deployment and operational support of modern geodetic instrumentation that serve national goals in basic research and education in the Earth sciences.



GROUND-BASED ASTRONOMY AND ASTROPHYSICS

NSF funds a suite of ground-based telescopes and observatories that use cutting-edge technology to explore the universe and advance astronomical research. This includes many of the world's most renowned observatories – ALMA, Arecibo, DKIST, Gemini, IceCube, LIGO, Rubin, VLA.



INTERNATIONAL OCEAN DISCOVERY PROGRAM

The JOIDES Resolution, an ocean-drilling research vessel that is part of the IODP, conducts sea-floor drilling to study Earth's oceans and paleoclimate and maintains several ocean drill sites around the world.



LARGE HADRON COLLIDER

NSF supports two particle physics detectors—ATLAS and CMS—at the LHC in Switzerland, the world's largest, most powerful particle accelerator.



LEADERSHIP CLASS COMPUTER FACILITY PHASE 1 – FRONTERA

NSF has begun the planning process for a Leadership-Class Computing Facility (LCCF). LCCF will be a distributed computational facility that will provision world-class computational and data analytics capabilities, as well as critical software and services to support all Science & Engineering research in the nation.



NATIONAL CENTER FOR ATMOSPHERIC RESEARCH

NCAR is a research and development center devoted to understanding and transferring knowledge about the behavior of the atmosphere and related Earth and geospace systems.



NATIONAL DEEP SUBMERGENCE FACILITY

NSF funds the operation by the Woods Hole Oceanographic Institution of three deep-sea exploration vehicles: Alvin, a human-occupied vehicle; JASON, a remotely-operated vehicle; and SENTRY, an autonomous underwater vehicle.



NATIONAL ECOLOGICAL OBSERVATORY NETWORK

NEON is a continental-scale ecological observatory that enables fundamental research on biological responses to shifting environmental conditions, land-use changes and invasive species.



NATIONAL HIGH MAGNETIC FIELD LABORATORY

NSF supports the operation of the National High Magnetic Field Laboratory (NHMFL), the largest and highest-powered magnet laboratory in the world, used by thousands of scientists every year who are probing fundamental questions about materials, energy, environment and life.



OCEAN OBSERVATORIES INITIATIVE

NSF installed a network of instruments, undersea cables and moorings to span the Western Hemisphere that measures physical, chemical, geological and biological phenomena in key coastal, regional and global areas.



POLAR PROGRAMS: ANTARCTIC AND ARCTIC

NSF's Office of Polar Programs supports world-class Arctic and Antarctic science through grants to researchers across the U.S. and by providing polar facilities and operational support.



SEISMOLOGICAL FACILITY FOR THE ADVANCEMENT OF GEOSCIENCES

SAGE is a distributed, multiuser, national facility for the development, deployment and operational support of modern digital seismic and related geophysical instrumentation that serve national goals in basic research and education in the Earth sciences.



U.S. ACADEMIC RESEARCH FLEET: NSF-OWNED RESEARCH VESSELS

NSF, in partnership with other federal agencies, supports the U.S. Academic Research Fleet, including the NSF-owned vessels.