



State of the Services FY 2022 Q2 Report

January - March 2022

Engagement Events Highlights


NOAA and Climate Listening Sessions

Virtual | Jan 18, Feb 24, Mar 28

- NCEI led and hosted three “NOAA and Climate Listening Sessions” that focused on the Architecture & Engineering, New Blue Economy, and Travel, Tourism, and Outdoor Recreation sectors.  
- Dozens of participants from each sector along with members of the International Code Council, Outdoor Recreation Roundtable, and the National Travel and Tourism Office joined NOAA Administrator Spinrad and Commerce Secretary Raimondo (Travel and Tourism Session) and provided insights into current NOAA information use and ways to improve its products and services to better meet the needs of sectors impacted by the changing climate and extreme weather.

Ocean Sciences Meeting 2022

Virtual | Feb 24 - Mar 4

- NCEI scientists and staff attended the 2022 Ocean Sciences Meeting. This biennial international meeting brings together scientists, educators, students, and other professionals for scientific exchanges about all aspects of marine sciences and oceanography. 
- NCEI led a Town Hall focusing on NCEI’s mission as a data archive as well as showcasing the latest developments in products and services. NCEI also hosted a half-day data archival workshop to provide a richer understanding of the value of archiving data at NCEI.

Product and Services Highlights



New Website Provides Direct Access to Marine Scientific Research Data

The newly released NCEI Marine Scientific Research (MSR) Data website allows public discovery and access to data collected by international partners authorized by the U.S. Department of State to conduct MSR in waters subject to U.S. jurisdiction. The website provides government, public scientists, and others access to data that can improve our understanding of the U.S. Exclusive Economic Zone environmental and ecological resources. NCEI is the designated repository for all data collected under the MSR program.



Standardized Precipitation-Evapotranspiration Index Added to ACIS Maps

The Standardized Precipitation-Evapotranspiration Index (SPEI) has been added to the Applied Climate Information System (ACIS) Maps suite maintained by the High Plains Regional Climate Center, for the contiguous U.S. SPEI products use a log-logistic distribution with a modified version of Thornthwaite to calculate daily evapotranspiration. Staff integrated the ACIS Maps into the newer ACIS GIS software which resulted in parity between the maps and shapefiles, and increased stability.



New State Climate Extremes Committee Records

The State Climate Extremes Committee, a partnership between NCEI, the National Weather Service (NWS), Regional Climate Centers, and the American Association of State Climatologists (AASC), released four new records for the warmest temperatures observed across the states of Washington and Oregon. These records resulted from the intense heatwave across the Pacific Northwest in June 2021. Another record for maximum wind gust in Kentucky occurred during the severe weather outbreak that occurred on December 10, 2021.



Five Deeps Expedition Bathymetric Data

NCEI has published 71 new high-resolution multibeam bathymetry surveys collected between 2018 and 2020 by Caladan Oceanic LLC. These data were collected for the Five Deeps Expedition, the world's first manned expedition to the deepest point in each of the five oceans. The data will directly support the National Strategy for Mapping, Exploring, and Characterizing the United States Exclusive Economic Zone (NOMECS Strategy).

Stakeholder Highlights



NCEI Continuously-Updated Digital Elevation Models (CUDEM) provided the data for numerous ocean and coastal park units as part of the National Park Service (NPS) Ocean and Coastal Resources Program (OCRP) Seafloor Mapping Project. This project supports benthic habitat mapping and natural and cultural resource management needs across the National Parks.

Mapping Project. This project supports benthic habitat mapping and natural and cultural resource management needs across the National Parks.



The NWS Climate Services Program and NCEI's Regional Climate Services Program and Climate Monitoring teams held a virtual meet and greet in March. The goal of the meeting was to introduce the new Regional Climate

Services Directors and discuss collaboration opportunities in the regions, including ways to provide equitable services for underserved communities.



The Midwestern Regional Climate Center (MRCC) established a Beta Testers Group consisting of key climate services partners in the Midwest. This group will be periodically solicited to provide feedback as the MRCC

develops new tools and enhances existing products. The first request was sent to this group to gather input on a draft version of the new [Snowfall Climatology Toolkit](#).



The Southeast Regional Climate Center (SERCC) recently upgraded its Forecast Perspectives tool to extend the forecast period from 3 days to 5 days across the Southeast U.S.



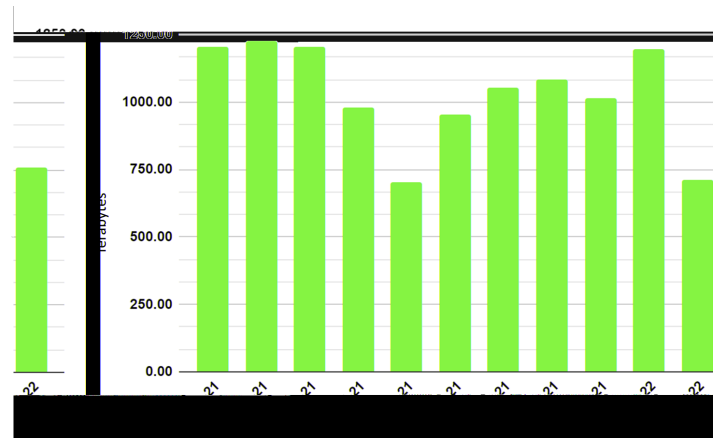
On March 4, 2022, the Ministry of Environment-Japan (MOEJ) hosted a virtual meeting with representatives from the United Nations Environment Programme's Global Partnership on Marine Litter and NCEI's

Marine Microplastic staff to discuss coordination of data sharing efforts. The goal of the MOEJ is to create a federated network of marine microplastic monitoring efforts that will encourage data collection and reporting standardization to allow for data harmonization and analysis.

Customer Reach

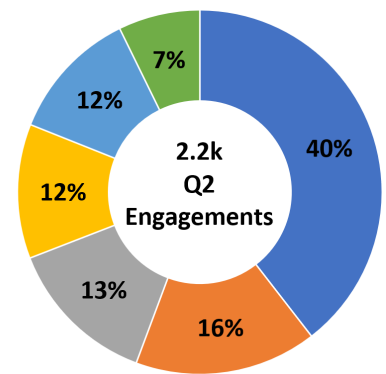
NCEI Makes Data Accessible

1.07B web hits and 2,669 TBs of data delivered online in FY22-Q2



U.S. Sectors Served

- Professional, Scientific, and Technical Services
- Other Services (except Public Administration)
- Other
- Educational Services
- Public Administration
- Foreign



Unique Customer Requests

Offshore Wind Planning

NCEI delivered over 250 GB of data to Ørsted Offshore for a hydrographic survey in the area of Delaware Bay. The 2019 NOAA-acquired data, which comprises over 800 nautical miles of multibeam survey lines, will be used to evaluate suitability of the area for offshore wind development.

NCEI Grain Storage

Cargill contacted NCEI requesting the lowest temperature for multiple stations, within the continental United States, for the last 10 years. They were referred to the State Climatologist Applied Climate Information System (SC-ACIS) database. This data is being used to ensure that construction materials, used in Jumbo Grain Storage Tanks, adhere to the construction code temperature standards. Aeration is used to dry the grain. If the temperature inside of the storage bins drops below freezing, condensation re-wets the grain and can cause sudden bin failure due to grain expansion.

Fans:



Upcoming Engagements

NCICS Climate Informatics Conference	May 2022
AASC Annual Meeting	Jun. 2022
14th International Coral Reef Symposium	Jul. 2022

