

NOAA Data Center Notes

NODC National Oceanographic Data Center

Domain

[Oceanographic environmental data](#) including physical, biological and chemical measurements. NMFS S&T has a [nice summary](#) of the data subject scope and submittal options.

Dataset Submittal

Two versions offering several options for submittal without guidance on how to choose: [Submittal Instructions](#) - points to very detailed [NODC Submission Information Form](#) which asks lots of questions including archiving justification (Section 6).

[Submittal Guidelines](#)

[netCDF Templates](#) on the Submit Data tab describes another process.

NMFS S&T weighs in on submission with this [summary](#).

Data Formats

According to [NMFS S&T summary](#), "NODC archives tabular data, GIS products, still images, satellite products, video data (with difficulty), and documentation (Technical Reports, cruise reports). They include details I couldn't find on the NODC website!

NMFS Examples

[Geoportal search](#) with keyword NMFS yielded 1,171 entries;

AFSC, 9; "alaska fisheries science center", 66;

NWFSC, 0; "northwest fisheries science center", 18;

SWFSC, 3;

dataThemeinstitutions:*NMFS* yielded 740, 25 with 2007 or newer data;

dataThemeinstitutions searches on center acronyms find nothing.

All have ISO 19115 metadata.

e.g.: [NWFSC/NWR DS: Sampling for Paralytic Shellfish Poisoning in commercial and recreational shellfish areas in Washington state marine waters, January - December 2000](#)

Nicolaus Adams, NWR, under *gmd:citedResponsibleParty* (ISO XML tag)

WA Dept of Health under *gmd:citedResponsibleParty*

Vera Trainer, NWFSC, in *gmd:supplementalInformation*

ISO metadata is non-technical data management.

[Download](#) goes to a KML & a tar.gz.

[FTP](#) goes to an [XML file](#), [a folder structure](#) with a readme, txt, and csv files. The XML file has nothing on the data itself.

[2014 \(dataset published\) example from PIFSC\)](#)

[Ocean Archive System metadata search](#)

NGDC National Geophysical Data Center

Domain

[Geophysical data](#) describing the solid earth, marine, and solar-terrestrial environment, as well as earth observations from space, both digital and analog. NGDC is the [national long-term archive for data and metadata](#) pertaining to underway geophysical data and marine geological (MGG) samples collected with US National Science Foundation (NSF) funds. This role is outlined in NSF11060 [Policy for Oceanographic Data](#).

Dataset Submittal

[Email the appropriate data specialist](#) before sending data. To upload data, use our incoming FTP server: incoming.ngdc.noaa.gov, User: anonymous, Password: your email address. See also [How to contribute](#).

Metadata

[EMMA](#) (Enterprise Metadata Management Architecture)
Create, manage, display and improve standards-compliant documentation. Meaningful and high quality information enables discovery, understanding and usage ---which facilitates sharing, re-use and data citation.

NMFS Examples

[Data Search](#) on “National Marine Fisheries Service”:

[Grain Size Data from the Baltimore Canyon Trough](#).

Search on “NMFS”:

[CAGES relational database of estuarine trawl data collected independently by the five Gulf States](#).

[EBSSSED database-Surficial sediments of the eastern Bering Sea continental shelf](#)
(AFSC).

All have ISO 19115 metadata.

NCDC National Climate Data Center

Domain

[Climate and historical weather data](#) and information from [paleoclimatology data](#) to [centuries-old journals to data less than an hour old](#). (NCDC isn't listed on the [NMFS archiving website](#).
NCDDC is part of NCDC)

Dataset Submittal

[NCDC accepts paleoclimatology data](#) for permanent archival and public access. This is climate [data derived from natural sources](#) such as tree rings, ice cores, corals, and ocean and lake sediments.

Metadata

Example [ASCII-Text Data Contribution Template](#).

NMFS Examples

[Data search](#) finds nothing for NMFS.

[NCDDC](#) (National Coastal Data Development Center)

[NCDDC is part of NODC.](#)

Other Notes:

[NOAA EDM DOI Assignment Process](#) (draft with open issues)

How to generate ISO 19115 metadata?

- [EMMA](#) (Enterprise Metadata Management Architecture) is incomprehensible.
- NCDDC's [MERMAid](#) (Metadata Enterprise Resource Management Aid) Web app
- [Oxygen desktop XML editor + ISO 19115 schema/namespace?](#)
- [FGDC ISO Metadata Resources](#) - 2012 1 page handout.
- [FGDC metadata Biological Data Profile](#) - obscure specification detail.
- [FGDC ISO with Biological Extensions Workbook](#) - helpful, but no context or examples.

Misc:

[Metadata training at NCDDC](#)

[MERMAid \(Metadata Enterprise Resource Management Aid\)](#)

FGDC Metadata creation application. Completed metadata can be published to InPort, the [NCDDC GeoPortal](#), or exported for publication elsewhere. Jacqueline Mize, NCDDC, 6/16/2014. Jacky sent a link to NMFS' MERMAid "published" metadata [here](#).

[NNDC](#) (NOAA National Data Centers), apparently some kind of coordinating group? But all three data centers are in the NESDIS (National Environmental Satellite, Data, and Information Service) [organization](#).

<http://www.nodc.noaa.gov/about/overview.html>:

NOAA also operates two other data centers: [National Climatic Data Center \(NCDC\)](#), Asheville, North Carolina and [National Geophysical Data Center \(NGDC\)](#), Boulder, Colorado. Also, the [National Snow and Ice Data Center \(NSIDC\)](#) in Boulder, Colorado is operated for NGDC by the University of Colorado through the Cooperative Institute for Research in Environmental Sciences ([CIRES](#)).