

Marine data in Norway

Framework, availability, information systems



Overview

- Framework Spatial data Act
- Norway Digital, the national geographical infrastructure
 - Marine/maritime data
- Examples of relevant initiatives
 - MAREANO, SEAPOP, Naturbase
- Data needs and scale



Framework – Spatial data Act

- The Act shall promote good and efficient access to public geographical information (spatial data) for public and private purposes.
- Applies to:
 - state, municipal and county administration bodies
 - other administrative and public advisory bodies
 - other legal persons performing public administrative functions according to law.
- Other parties that perform administrative functions or have spatial data or spatial data services that can improve society's access to geographical information, will also be covered by the provisions of this Act



Spatial data Act – key points

- Focus on sharing, harmonization and documentation of data:
 - Take the necessary measures to share specified spatial data through a common infrastructure for geographical information. These measures shall enable participating undertakings to access, exchange and use spatial data sets and spatial data services.
 - Make specified spatial data and related public spatial data services available in harmonized form so that data and services can interact.
 - Produce associated documentation (metadata) and keep this updated.



Norway Digital - NSDI

- National geographical infrastructure
- **Requirements under** EU Inspire directive
- Geonorge.no as a metadata portal
- Data owners responsible for data management



Kartet viser intensitet i fiskeriaktivitet for

utenlandske fartøyt for årene 2011, 2012 og

utbredelse for fiskerier foretatt av større fartøy.

Datasettet viser estimert fiskeriaktivitet som er

basert på satelittsporing av norske fartøy over sporingsgrense med en fart mellom 1-5 knop.

Dataene dekker området innenfor Norges maritime grense og i tillegg noe i Skagerak og nord for England, Endring av sporingsgrense etter 2005: opprinnelig 24m,senket til 21m 1.juli 2008, senket til 18m 1.mars 2010, senket

til 15m 1.juli 2010. For fartøy som fisker i EUsone har grense vært 15m fra 1 januar 2005

2013 og angir hovedinteresseområder og



Sorter etter: Relevans



Dataset: Protected areas

Protected areas and protected objects in Norway, Svalbard and Jan Mayen

ABSTRACT:

The data set provides an overview of which areas are protected under the following laws: Nature Conservation Act of 2009, biotopyern for Wildlife Act of 1981, the Nature Conservation Act of 1970, the Nature Conservation Act of 1954, the law of Jan Mayen by 1930 and the Act on nature conservation by 1910. In addition, the areas protected under the following legislation on Svalbard: Svalbard Act of 1925 and the Svalbard Environmental Protection Act of 2002. The data set also provides access to the legal regulation that is applicable to each individual protected areas

Protected areas established primarily to preserve the natural values ??of national importance. These are values ??we should take care of for the foreseeable future, with regard to nature experience and knowledge about nature. The protected areas managed by the county or municipality under a separate regulation.

Theme:	Protected areas in Norway », Svalbard and Jan Mayen »
Owner	The Norwegian Environment Agency
Database	Naturbase >>
Coverage	Norge, Svalbard and Jan Mayen
Precision	Varying (from 1:5.000 - 1:50.000)
Metadata	Meta data on geonorge.no >>
Fact sheeet))
Product specification	Product spesification for Protected areas >>
Spatial representation type	Vectordata (Polygon)
Copyrights	Dette datasettet er gjort tilgjengelig av Miljødirektoratet under Norsk lisens for offentlige data NLOD v1.0. Følgende kildetekst må oppgis ved publisering: <i>Kilde: Miljødirektoratet</i>
	Norsk lisens for offentlige data (NLOD) >>

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MarinTerrengWMS Norges geologiske undersøkelse

Tilgjengelig som: Datasett

Noen har innsta.

Fiskeridirektoratet

Karttjenesten viser landskap og landskapsformer på havbunnen. Landskap er definert som større geografiske områder med enhetlig visuelt preg. Klassifiseringen er basert på batymetri med 50 meters oppløsning og er blant annet en del av grunnlaget for naturtypekartleggingen, Landskapsformer dannet under påvirkning av is, pockmarks dannet ved utsiving av gass eller væske fra underliggende sedimenter/berggrunn og skredkanter dannet ved utglidninger, som er tilgiengelig fra karttienesten, er tolket på grunnlag av detaljerte dybdedata og sedimentdata. I tillegg inneholder tjenesten dvbdeinformasion i form av dvbdekoter



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Examples of relevant initiatives

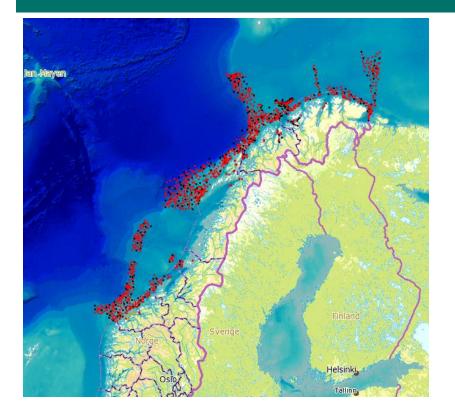


MAREANO

- MAREANO: National, marine mapping program
 - MAREANO maps depth and topography, sediment composition, contaminants, biotopes and habitats in Norwegian waters
- 3 data owners:
 - Institute of Marine Research
 - Geological Survey Norway
 - Norwegian Mapping Authority
- Web based map and data download



MAREANO

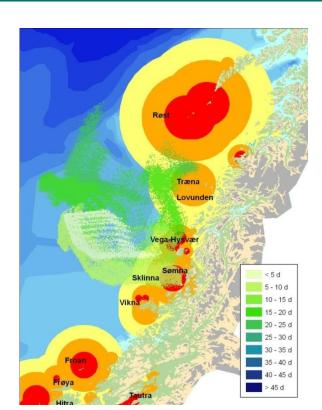


- Mapping order
 - Measurements of seafloor topography from multi-beam echo sounders
 - The Geological Survey of Norway prepares seabed maps based on interpretations of the strength of acoustic signals from the multi-beam echo sounders, and seabed features interpreted from detailed terrain models
 - Institute of Marine Research and the Geological Survey of Norway select observation points for documentation of sediments, benthic fauna and environmental contaminants, physical sampling and video.



SEAPOP

- Long-term monitoring and mapping program for Norwegian seabirds.
- Provide and maintain baseline knowledge of seabirds
- Important data for risk assessments





SEAPOP

- ≈ 20 key sites
- Monitoring breeding success
- Maps breeding populations, wintering populations, distribution



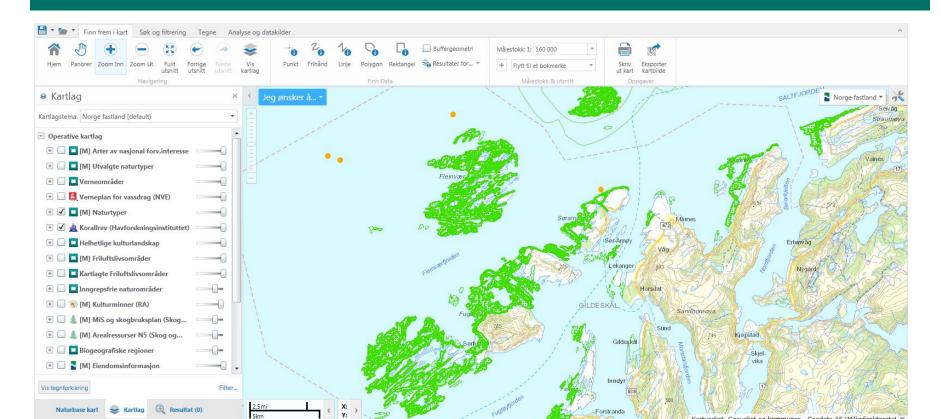
Coastal marine mapping

- NEA responsible funding and prioritization
- National mapping program
- NEA does quality control and store data
- Data distribution:
 - Consultancies
 - Municipalities
 - Coastal planning purposes

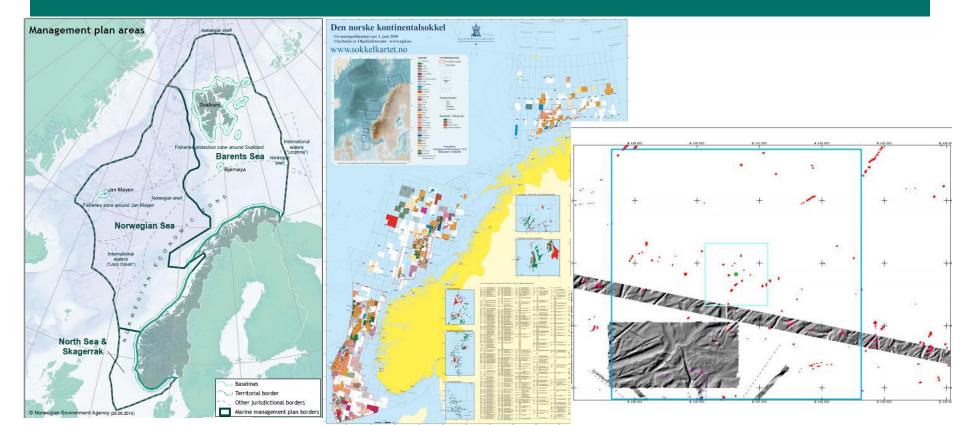




Naturbase – web map system



Data needs and scale





www.miljødirektoratet.no