



Koninklijk Nederlands Instituut voor Zeeonderzoek

Meer dan de som der delen

'Leuk! Open data!' sessie – Noordzeedagen 2015

Taco de Bruin - NIOZ



Wat is er zo Leuk! aan Open Data?

- Data verzameld en beheerd voor realisering eigen doelen

Open Data:

- Verplichtingen (wettelijk, financiers, moreel)
- Voordelen (reclame, nieuwe samenwerkingen, nieuw interdisciplinair onderzoek)



Wat is er zo Leuk! aan Open Data?

- Deltares
- IHM
- NIOZ
- etc.



Dit is er zo Leuk! aan Open Data!

Open Data:

- Grensverleggend werk
- Nieuwe verbanden, over disciplines heen
- Efficiëntie verhogend (en mogelijk kostenbesparend)
- Schaalvergroting door toegang tot meer data



Dit is er zo Leuk! aan Open Data!

Voorwaarden:

- Overzicht
- Toegang
- Standaard formaat



Dit is er zo Leuk! aan Open Data!

- Alle data op één plek
 - World Data Centres
 - wetenschappelijke wereld
 - eigendom?
 - concurrentie?
 - toekomstbestendig?
- Gekoppelde infrastructuren
 - data blijven bij de bron
 - up to date
 - partners uit overheid, kennisinstellingen, bedrijfsleven
 - makkelijk nieuwe partners aan koppelen
 - basis voor overheidsbeleid (EU), nieuw onderzoek en 'blue economy'



Dit is er zo Leuk! aan Open Data!

Royal Netherlands Institute for Sea Research

PELAGIA

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NIOZ EN » Research » Data » Data Portals

AAA

- » Departments Texel
- » Working Groups Yerseke
- » Research Projects
- » Research Facilities
- » Methodology and Techniques
- » Colloquia
- » Companies & government
- » **Data**
 - » **Data Portals**
 - » ZKO Data Management
 - » Marsdiep Data
 - » Staff
 - » Products

Data portals

NIOZ portals

- CODIS**
CTD and mooring data
- CoreBase**
Sediment cores inventory
- Colours**
Optical data Wadden Sea

National supported portals

- ZKO**
National Programme Sea & Coastal Research
- NODC-NL**
National data portal
- NPDC-NL**
National Polar Data Center

International supported portals

NIOZ Data Portals via NIOZ website

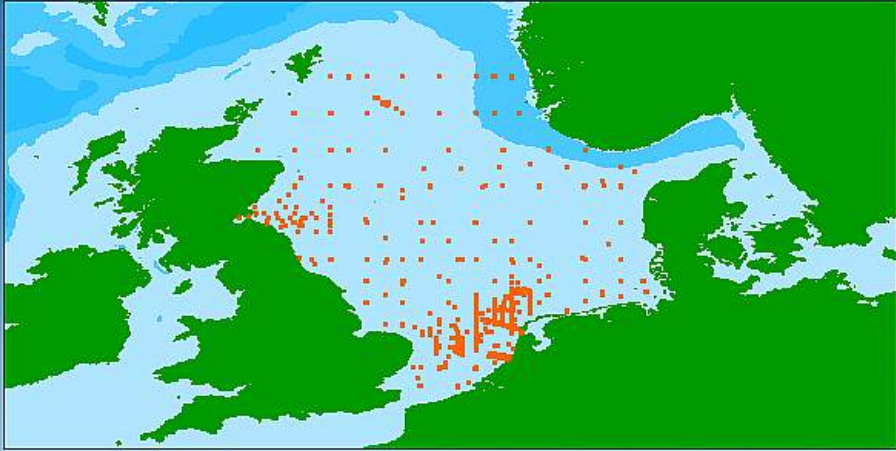


Dit is er zo Leuk! aan Open Data!

NODCi Common Data Index (CDI) V3

TOOLS ?

- Map navigation icons: Home, Search, Hand, Info, Layers, Print, Full Screen, Refresh, Grid
- Buttons: Enlarge, Help, Position, Index
- Shopping cart icon: Datasets
- Buttons: Basket, Reset
- NODC logo
- Buttons: Add to basket



LAYER CONTROL ? Expand Add layer

- CDI entry Points ?
- CDI entry Tracks ?
- CDI entry Areas ?
- Grid Lines ? ? ?
- Regional sea ? ? ?
- Regional sea labels ? ? ?
- Main sea ? ? ?
- Main sea labels ? ? ?
- Display all selected records
- Only selected records in results list

LISTING RESULTS

20 100 1000 records [Go](#)

[Timeseries on](#) [Summary](#) [Zoom to selected](#) [Export](#) [Store query](#)

[Refine query](#) | [New query](#) | Found 1406 | Show (1-20) | [Previous](#) | [Next 20](#)

#	Data set name	DC country	Start date	Disciplines - Parameter groups	Instrument / gear type	Show
<input type="checkbox"/>	64PE294_71_1	Netherlands	20080909	Biological oceanography > Pigments Physical oceanography > Other physical oceanographic measurements > Water column temperature and salinity	CTD	
<input type="checkbox"/>	64PE294_72_1	Netherlands	20080909	Biological oceanography > Pigments Physical oceanography > Other physical oceanographic measurements > Water column temperature and salinity	CTD	
<input type="checkbox"/>	64PE294_74_1	Netherlands	20080908	Biological oceanography > Pigments Physical oceanography > Other physical oceanographic measurements > Water column temperature and salinity	CTD	
<input type="checkbox"/>	64PE294_73_1	Netherlands	20080908	Biological oceanography > Pigments Physical oceanography > Other physical oceanographic measurements > Water column temperature and salinity	CTD	

NIOZ data via Nationale Oceanografische Data Commissie (NODC)



Dit is er zo Leuk! aan Open Data!

NODCi Common Data Index (CDI) V3

TOOLS ?

- Enlarge
- Help
- Position
- Index

Dataset

Basket Reset

NODC

Add to basket

Timeseries on Summary Zoom to selected Export Store query

Refine query | New query | Found 44521 | Show (1-20) | Previous | Next 20

#	Data set name	DC country	Start date	Disciplines - Parameter groups	Instrument / gear type	Show
<input type="checkbox"/>	64PE294_71_1	Netherlands	20080909	Biological oceanography > Pigments Physical oceanography > Other physical oceanographic measurements > Water column temperature and salinity	CTD	
<input type="checkbox"/>	64PE294_72_1	Netherlands	20080909	Biological oceanography > Pigments Physical oceanography > Other physical oceanographic measurements > Water column temperature and salinity	CTD	
<input type="checkbox"/>	64PE294_74_1	Netherlands	20080908	Biological oceanography > Pigments Physical oceanography > Other physical oceanographic measurements > Water column temperature and salinity	CTD	
<input type="checkbox"/>	64PE294_73_1	Netherlands	20080908	Biological oceanography > Pigments Physical oceanography > Other physical oceanographic measurements > Water column temperature and salinity	CTD	

NL data (RWS, NIOZ, IMARES, TNO, SOVON, ..) via NODC



Dit is er zo Leuk! aan Open Data!

SEADATANET COMMON DATA INDEX (CDI) V3

Tools ?

Datasets 0

[Refine query](#) | [New query](#) | Found 231453 | Show (1-20) | [Previous](#) | [Next 20](#)

<input type="checkbox"/> #	Data set name ⇅	DC country ⇅	Start date ⇅	Disciplines - Parameter groups	Instrument / gear type ⇅	Show
<input type="checkbox"/>	Midas_Water	Belgium	20100414	Chemical oceanography > Carbon, nitrogen and phosphorus > Nutrients Marine geology > Suspended particulate material	discrete water samplers	<input type="button" value="Show"/>
<input type="checkbox"/>	Midas_Water	Belgium	20070925	Biological oceanography > Pigments	discrete water samplers	<input type="button" value="Show"/>
<input type="checkbox"/>	Midas_Water	Belgium	20110920	Chemical oceanography > Carbon, nitrogen and phosphorus > Nutrients Marine geology > Suspended particulate material	discrete water samplers	<input type="button" value="Show"/>
<input type="checkbox"/>	Midas_Water	Belgium	20110117	Chemical oceanography > Carbon, nitrogen and phosphorus > Nutrients Marine geology > Suspended particulate material	discrete water samplers	<input type="button" value="Show"/>
<input type="checkbox"/>	Midas_Water	Belgium	20070606	Biological oceanography	discrete water samplers	<input type="button" value="Show"/>

Layer control ?

- CDI entry Points ?
- CDI entry Tracks ?
- CDI entry Areas ?
- Grid Lines ?
- Regional sea ?
- Regional sea labels ?
- Main sea ?
- Main sea labels ?

Display all selected records
 Only selected records in results list

Listing results

20 100 1000 records

Europese Noordzeedata via SeaDataNet



Dit is er zo Leuk! aan Open Data!

The screenshot shows the OceanDataPortal interface. At the top, there are navigation links for HOME, DATA, MAPS, and EXTERNAL SYSTEMS. The main content area is titled 'Metadata search'. On the left, there is a 'Simple search' sidebar with fields for 'Any word:', 'Dataset:' (set to 'SeaDataNet (GEO-DAB)'), and 'Geography:'. Below the search fields are 'Search' and 'Reset' buttons. The main search results table has columns for 'Title:', 'Dataset', and 'Modification date'. The second row is highlighted in blue.

	Title:	Dataset	Modification date			
	SeaDataNet - Physical oceanography from IFREMER / IDM / SISMER - Scientific Information Systems for the SEA, point observations	SeaDataNet (GEO-DAB)	2015-06-23T06:48:27			
	SeaDataNet - Atmosphere from IMARES, Wageningen UR, Institute for Marine Resources and Ecosystem Studies, IJmuiden, surface observations	SeaDataNet (GEO-DAB)	2015-06-23T06:48:28			
	SeaDataNet - Biological oceanography from IFREMER / IDM / SISMER - Scientific Information Systems for the SEA, point observations	SeaDataNet (GEO-DAB)	2015-06-23T06:47:58			
	SeaDataNet - Chemical oceanography from BRGM / Office of Geological and Mining Resources, point observations	SeaDataNet (GEO-DAB)	2015-06-23T06:47:58			
	SeaDataNet - Cross-discipline from Space Research Institute of RAS, surface observations	SeaDataNet (GEO-DAB)	2015-06-23T06:48:45			
	SeaDataNet - Physical oceanography from British Oceanographic Data Centre, point observations	SeaDataNet (GEO-DAB)	2015-06-23T06:48:45			
	SeaDataNet - Terrestrial from Bulgarian National Oceanographic Data Centre(BGODC), Institute of Oceanology, curve observations	SeaDataNet (GEO-DAB)	2015-06-23T06:48:46			
	SeaDataNet - Physical oceanography from Latvian Institute of Aquatic Ecology, point observations	SeaDataNet (GEO-DAB)	2015-06-23T06:48:46			
	SeaDataNet - Environment from British Oceanographic Data Centre, point observations	SeaDataNet (GEO-DAB)	2015-06-23T06:48:42			
	SeaDataNet - Administration and dimensions from Finnish Meteorological Institute, point observations	SeaDataNet (GEO-DAB)	2015-06-23T06:48:43			
	SeaDataNet - Chemical oceanography from Flanders Marine Institute, point	SeaDataNet	2015-06-23T06:48:20			

Europese data (IMARES dataset highlighted)
via globale Ocean Data Portal



Dit is er zo Leuk! aan Open Data!

Voor de discussie:

- Bereidheid (al of niet dmv verplichtingen) tot open data
- Commitment van organisaties voor lange termijn
- Verschil tussen wetenschappelijke wereld en overheid