

Dataset documentation Nourishments

Here is the documentation of Nourishments dataset. The whole dataset is available in nc format and as km1/kmz file.

Nourishment data in OpenEarth:

The dataset of nourishments along the Dutch coast is available from 1952 until today (end 2015) [here](#). `nourishments.nc` has two different data structures:

- 1-Dimensional arrays based on the list of nourishments along the Dutch coast, as provided by Rijkswaterstaat

n_code (<String>)	date (<Float64>)	stretch (<Float64>)	kustvak (<String>)	location (<String>)	...	type (<String>)	vol (<Float64>)	vol_per_metre (<Float64>)
[nourishment = 409]	[nourishment = 409] [bounds = 2]	[nourishment = 409] [bounds = 2]	[nourishment = 409]	[nourishment = 409]		[nourishment = 409]	[nourishment = 409]	[nourishment = 409]

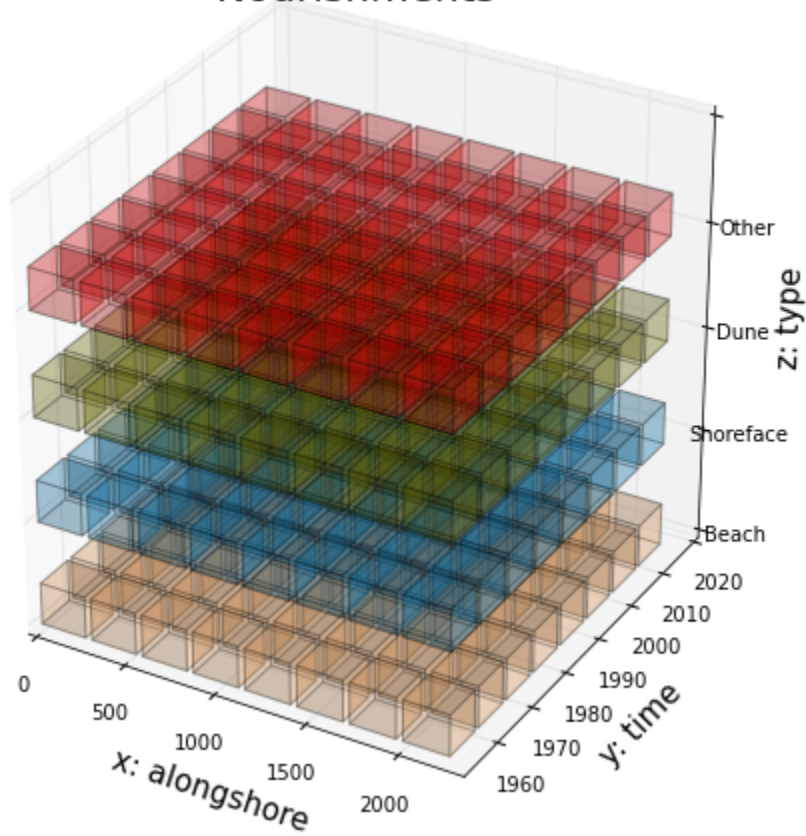
- 3-Dimensional matrices based on transects, time and type. From the original list of nourishment types, four types have been defined which represent the original list:

Beach	Shoreface	Dune	Other
strandsuppletie, strandsuppletie banket, strandsuppletie+vooroever, banket, strand (zwakke sch.), strand-duinsuppletie, strandsuppletie+duinverzwaring	onderwatersuppletie, vooroever, vooroeversuppletie, geulwand, geulwandsuppletie	duin, duinverzwaring, landwaartse duinverzwaring, zeewaartse duinverzwaring, dijkverzwaring, duinverzwaring en strandsuppletie, zeewaartse duinverzwaring en strandsuppletie	OTHER

The data structure is similar to the JarKus dataset concerning the alongshore dimension, although it contains data from 1952 until now and it distinguishes among the fore-mentioned four main nourishment types.

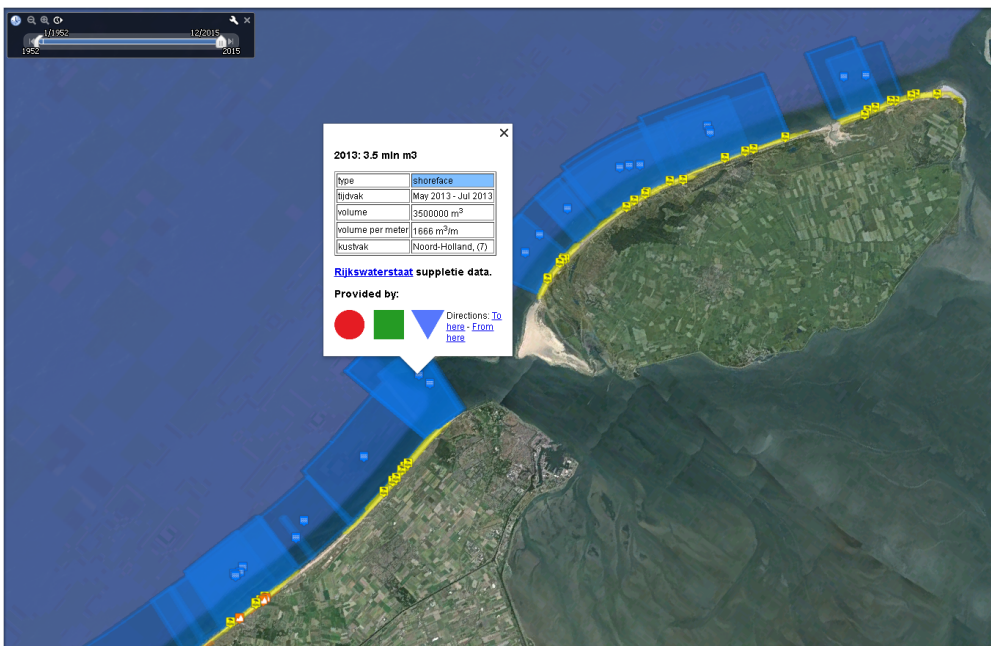
Volume (<Float64>)	Time_start (<Float64>)	Time_end (<Float64>)
[alongshore = 2268][n_time = 64][type_flag = 4]	[alongshore = 2268][n_time = 64][type_flag = 4]	[alongshore = 2268][n_time = 64][type_flag = 4]

Nourishments



Nourishment visualization in Google Earth:

A Google Earth km1/kmz file is created with Python [scripts](#) and moved [here](#). Volume, volume per alongshore distance, nourishment type, period and kustvak are presented in the visualization..



Data flow

Data flow is summarized as:

- Raw data + scripts (ascii + Python)
 - Raw ascii data + Python tools for conversion to netCDF
<https://svn.oss.deltares.nl/repos/openearthrawdata/trunk/rijkswaterstaat/suppleties/scripts/> (register at oss.deltares.nl)
- Standardized data (netCDF on OPeNDAP)
 - <http://opendap.deltares.nl/thredds/dodsC/opendap/rijkswaterstaat/suppleties/nourishments.nc.html>
- Visualized data (kml)
 - <http://kml.deltares.nl/kml/rijkswaterstaat/suppleties/nourishments.kml>
 - <http://kml.deltares.nl/kml/rijkswaterstaat/suppleties/nourishments.kmz>

TODO: Better compliancy with CF

See also:

- [Dataset documentation JarKus](#)