BRO Inspire Services

In the Netherlands subsurface data is legally arranged via The Basis Registratie Ondergrond, aka BRO: https://www.broinfo.nl.

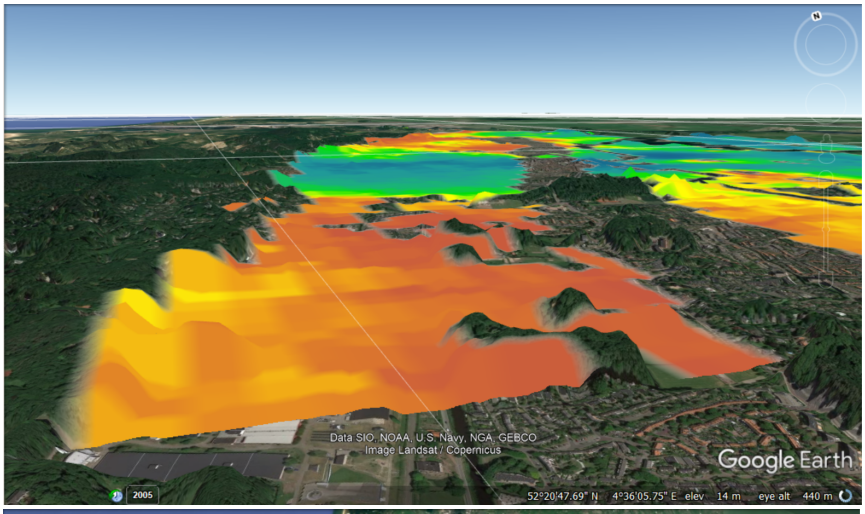
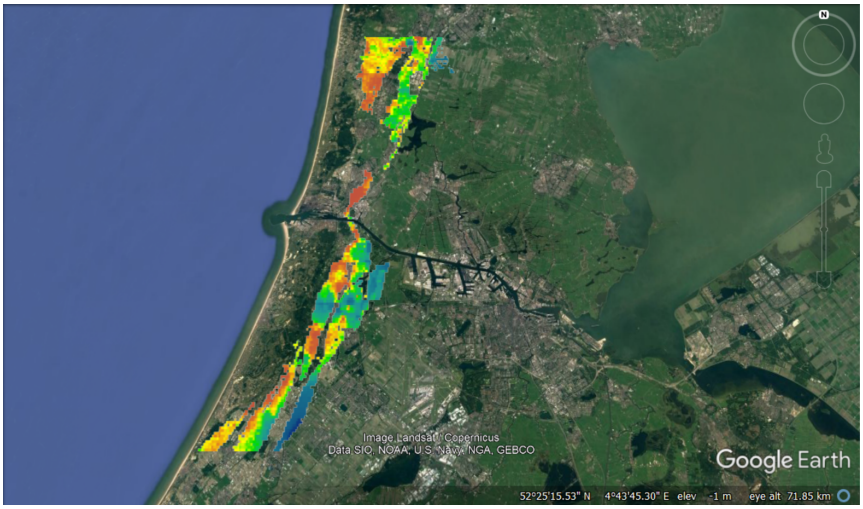
TNO manages this data. The data is i) distributed via interactive web portals:

- http://www.nlog.nl for deep offshore areas
- https://www.dinoloket.nl for land, and some data for offhsore areas

and ii) via EU INSPIRE compliant web services via: https://www.broinspireservices.nl/arcgis/rest/

The OGC WMS feeds can be used to ingest data into professional; GIS packages like QGIS and ArcGIS, or load the WMS in Google Earth.

There are four subsurface models as explained on https://www.dinoloket.nl/en/explanation-subsurface-models. Each has its own WMS servie, which bundle many individual WMS layers:

- REGIS: https://www.broinspireservices.nl/arcgis/services/inspire/inspire_regis_rd/MapServer/WMSServer?request=GetCapabilities&service=WMS
- GetTOP: https://www.broinspireservices.nl/arcgis/services/inspire/inspire_geotop_rd/MapServer/WMSServer?request=GetCapabilities&service=WMS
    - The explanation of the layer/formation codes can be found here https://www.dinoloket.nl/nomenclator and in this Dutch report TNO 2012 R10991.
    - bcc = basis of layer, tcc = top of layer, dcc = thickness of layer, breuk = interface.
- DGM: https://www.broinspireservices.nl/arcgis/services/inspire/inspire_dgm_rd/MapServer/WMSServer?request=GetCapabilities&service=WMS
- AWP: https://www.broinspireservices.nl/arcgis/services/inspire/inspire_awp/MapServer/WMSServer?request=GetCapabilities&service=WMS

Two examples of GeoTOP formation "alt_onowa" via WMS in Google Earth: Formatie van Naaldwijk, Laagpakket van Walcheren, gelegen boven Formatie van Naaldwijk, Laagpakket van Zandvoort