

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 offshore 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 service, 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*

