Cross sections directly from www.dinoloket.nl

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Introduction

Dinoloket is the entrance of the Dutch susurface database, maintained by TNO on

http://www.dinoloket.nl

Note the the information on the site is also available in English. Exploring the site in all its detail may require an account, which can be obtained free of charge from the host mentioned under contacts on the site.

The dino site

The site provides entrance to maps and cross geological and hydrogeolocgical cross sections along arbitrary paths that can be choosen by the user. Interestingly, these cross sections can also be obtained directly without any manual intervenience by the user. All we need are the coordinate of the path along which the cross section is desired. Further we have to choose one of the geological or hydrogeological models that TNO prepared. These models can also be found on the site.

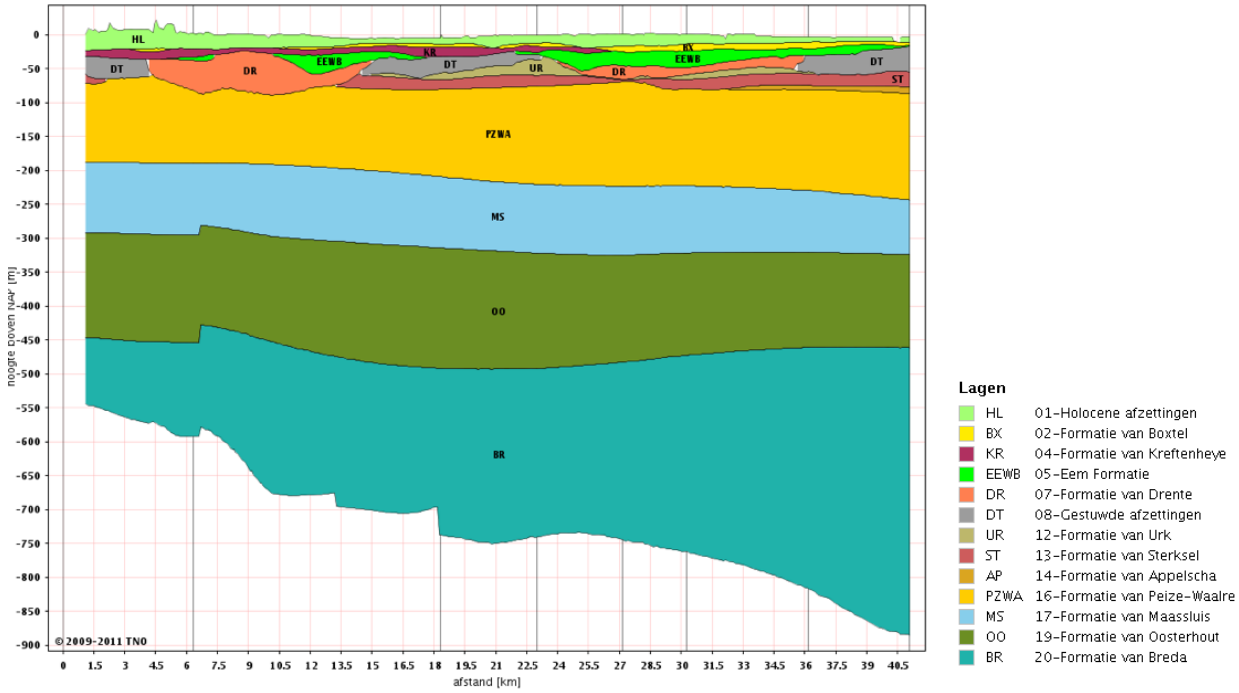

Figure 1: Cross section obtained through getDinoXSec.m

Direct access to arbitrary cross sections through matlab

The matlab function getDinoXSec provides direct access to cross sections along arbitrary paths for any of the available 3D-models. What is does, is to construct the URL required to obtaind the cross section. To this end, the coordinates of the desired paths are inserted in this URL after which the complete URL i placed in the browser. The cross section and its legend will appear in a just a couple of seconds.

Matlab function gtDinoXSec

To facilinitate getting the coordinates, which must be in the Dutch coordinate system, the function can be given a path made in Google Earch as an argument. In Google Earthc select add>path, give the message box a name, and click your path. When ready, save this path as a kmlfile on a convenient directory. Then use the functios as follows:

```
getDinoXSec(yourkmlfilename,desiredmodel)
```

where yourkmlfilename has to be repalced by the name of your path and dedisredmodel by one of the available model names which must be one of

```
DGM REGIS GR FR DR OV GE NH ZH UT GE ZL NB LB
```

Where DGM is the geological model, REGIS is the country wide geohydrological model and the other code are the abbeviations of the Dutch provinces that will acces the respective hydrogeologocal models. These provincial models are partly outdated (as of 2005) where available the more recent version will be used (20080.

```
help getDinoXSec
```

for further instructions.