

# Deltares

## iMOD Suite: Viewing iMOD QGIS plugin + iMOD 3D Viewer

Joeri van Engelen

Luit-Jan Slooten

Huite Bootsma

25/11/2021

# Table of contents

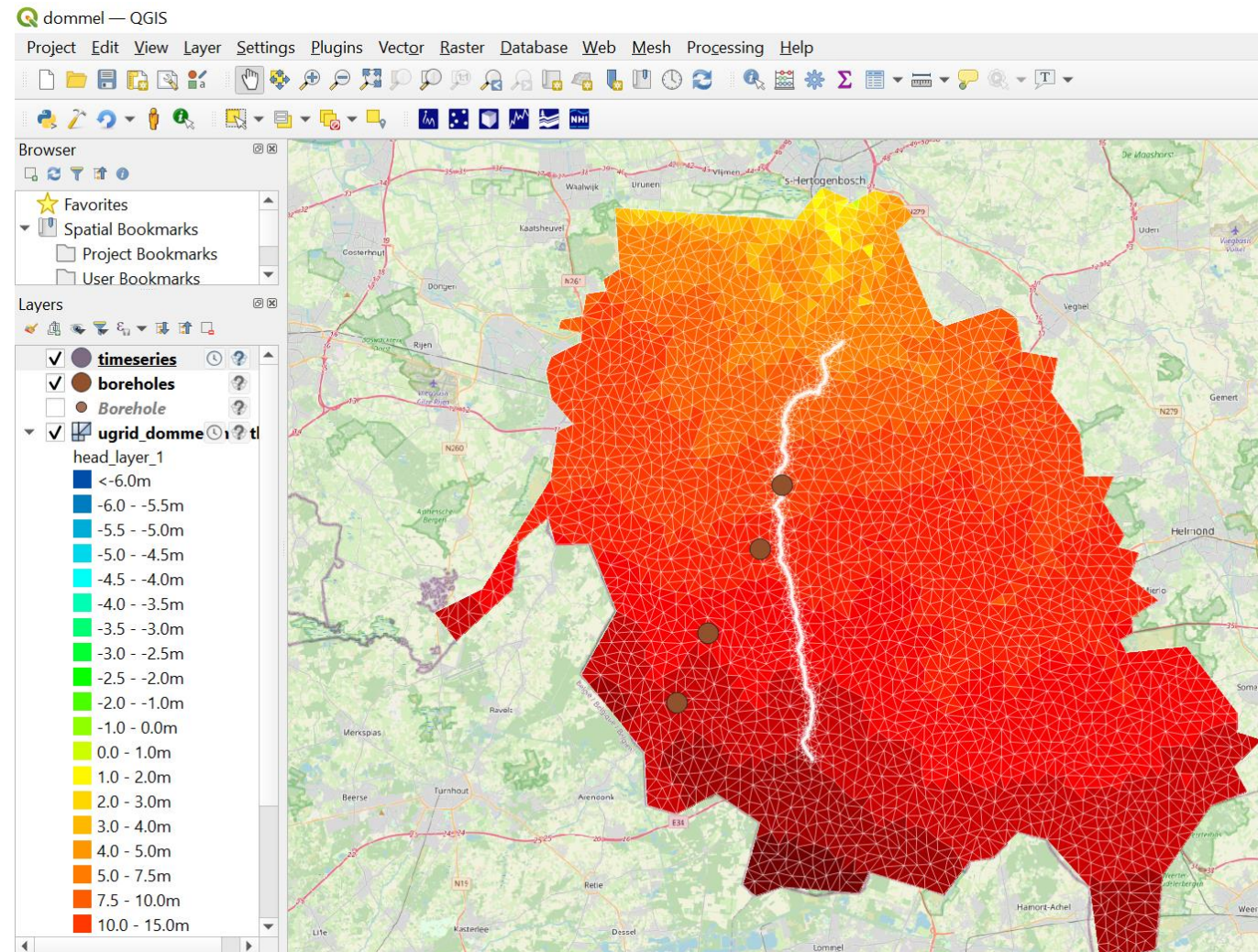
- General explanation
- Demo of the iMOD Viewer components
  - Time series
  - Cross section
  - 3D viewer
- Download and installation

# General overview



In QGIS:

- Planar (map) view





# General overview

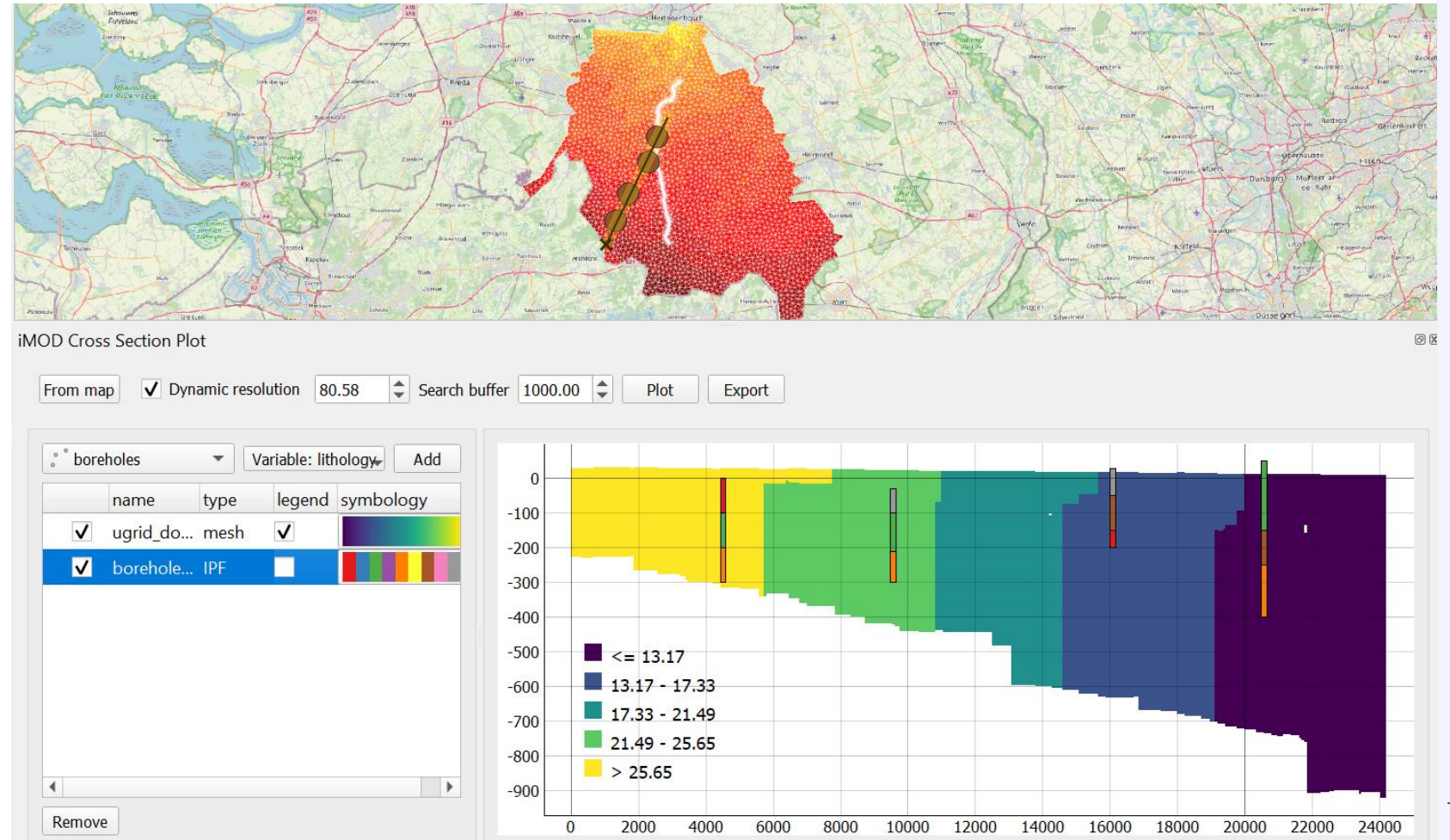


In QGIS:

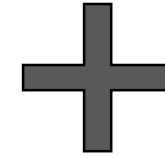
- Planar (map) view

In iMOD QGIS plugin:

- Cross-sections



# General overview

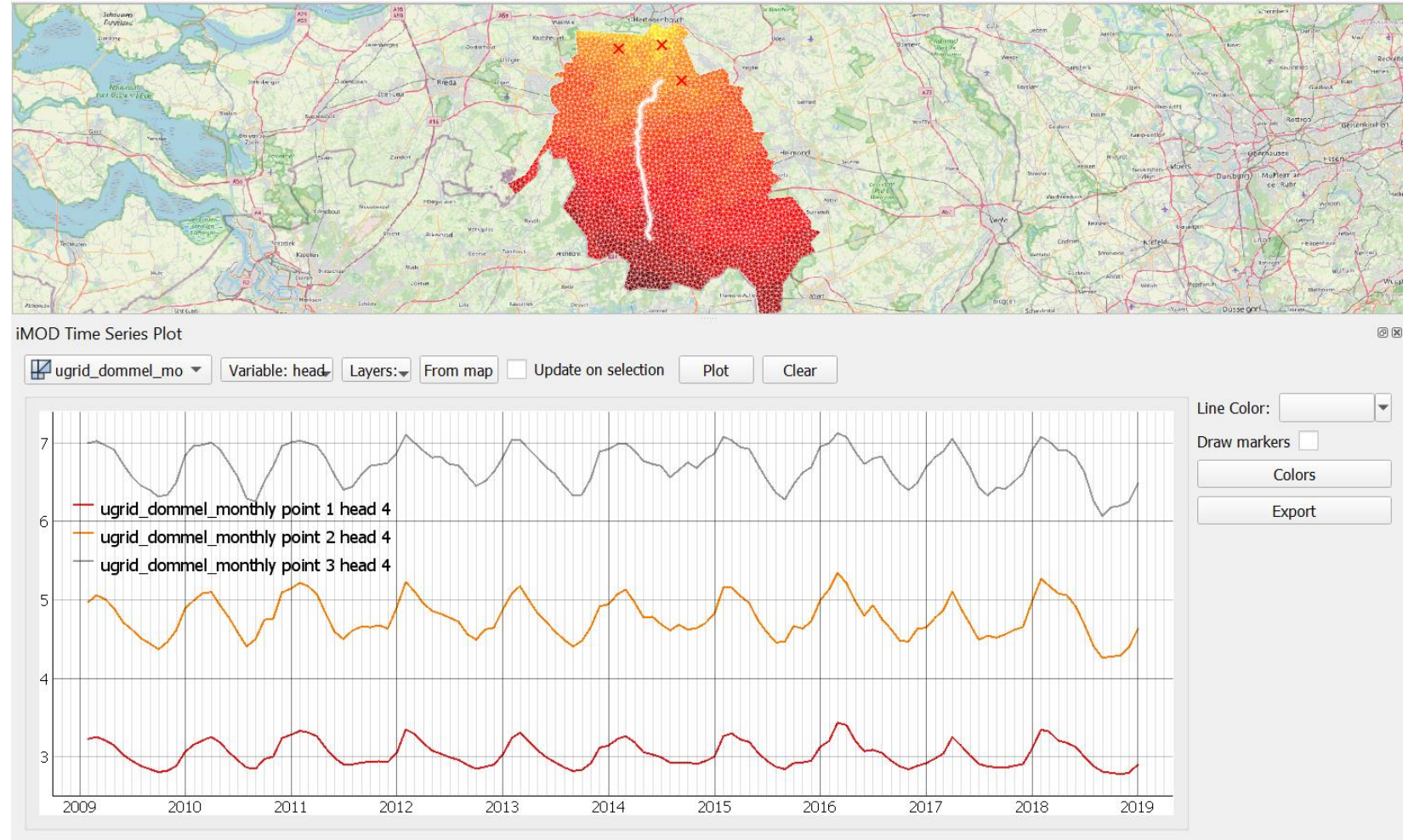


In QGIS:

- Planar (map) view

In iMOD QGIS plugin:

- Cross-sections
- Timeseries



# General overview



In QGIS:

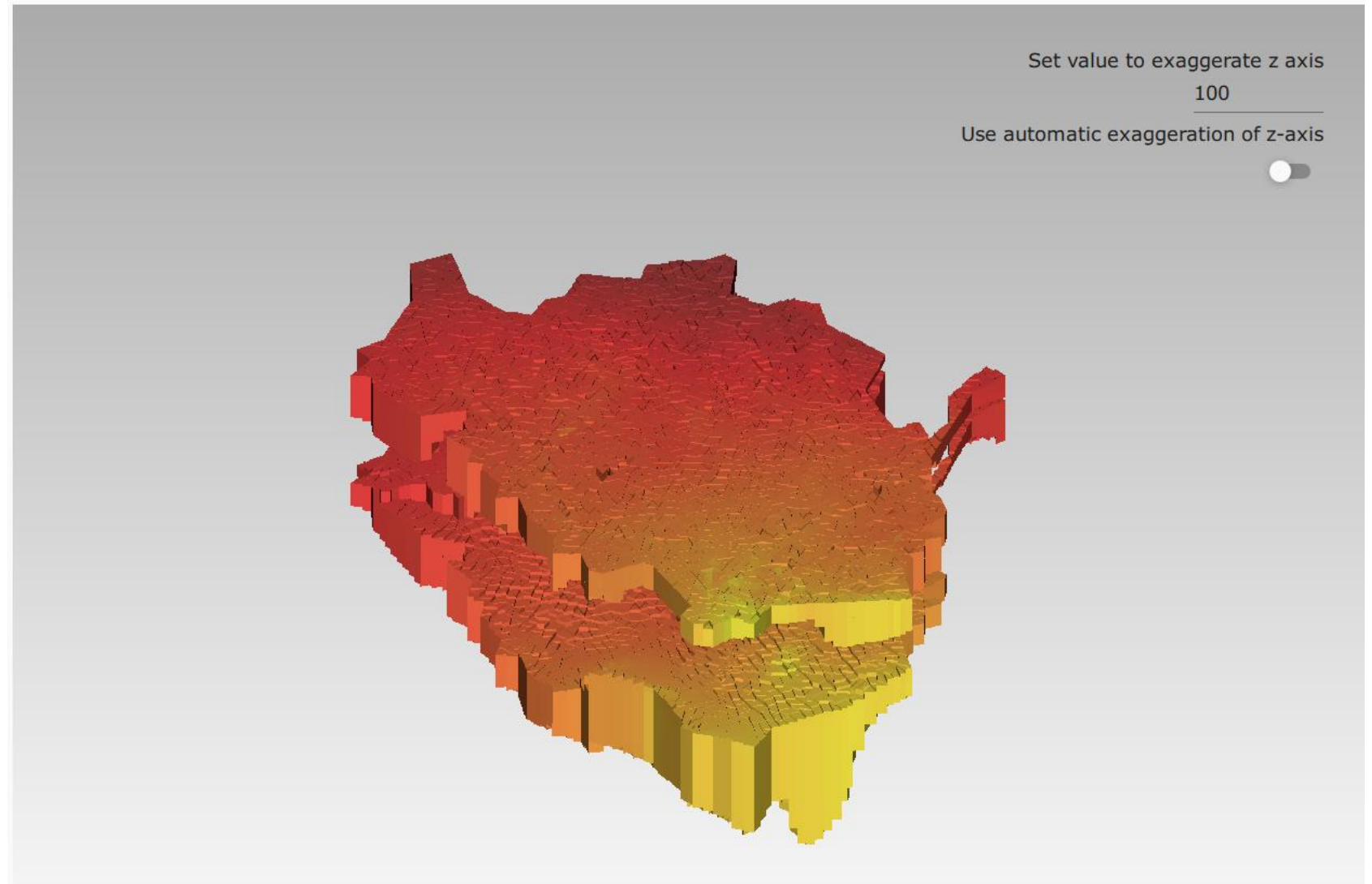
- Planar (map) view

In iMOD QGIS plugin:

- Cross-sections
- Timeseries

In iMOD 3D viewer

- 3D viewing

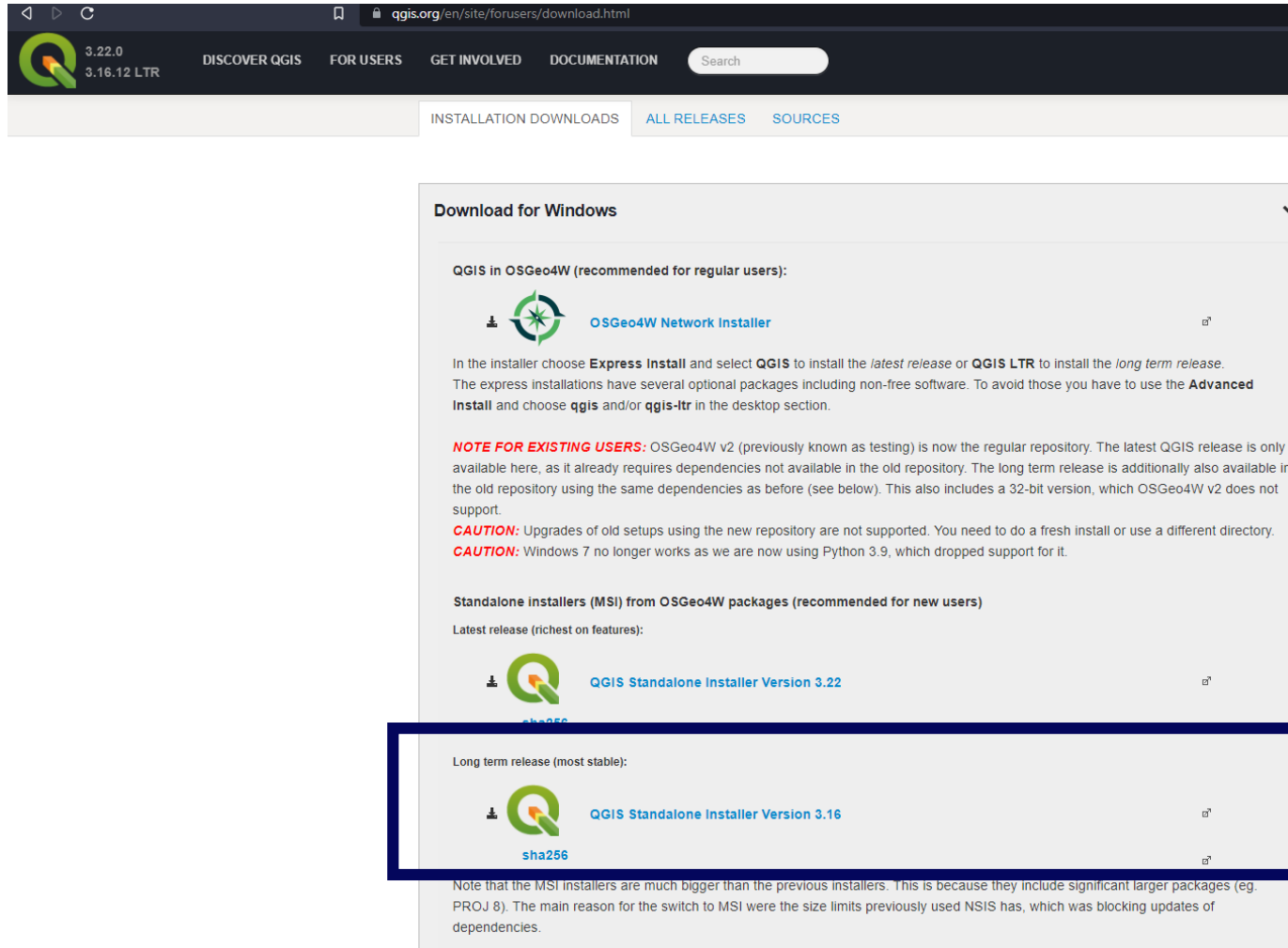




# Demo time



# Download QGIS



The screenshot shows the QGIS website's download page for Windows. The page is titled "Download for Windows" and features a dark navigation bar at the top with links to "DISCOVER QGIS", "FOR USERS", "GET INVOLVED", and "DOCUMENTATION". Below the navigation bar, there are tabs for "INSTALLATION DOWNLOADS", "ALL RELEASES", and "SOURCES". The main content area is divided into sections for different installation methods. The "Download for Windows" section is highlighted with a blue border. It contains the following information:

- QGIS in OSGeo4W (recommended for regular users):** This section includes a download link for the "OSGeo4W Network Installer" and instructions on how to install QGIS. It also includes a note for existing users and a caution about Windows 7.
- Standalone installers (MSI) from OSGeo4W packages (recommended for new users):** This section includes a download link for the "QGIS Standalone Installer Version 3.22".
- Long term release (most stable):** This section is highlighted with a blue border and includes a download link for the "QGIS Standalone Installer Version 3.16".

Below the highlighted section, there is a note about the MSI installers being larger than previous versions due to the inclusion of significant larger packages (e.g., PROJ 8).

Long Term Release recommended

# Download iMOD Viewer

download.deltares.nl/en/download/imod-viewer/

EN

Deltares

Areas of expertiseSoftwareAcademyFacilitiesAbout usContact

iMOD-viewer

iMOD Viewer

The iMOD Viewer consist of a standalone 3D viewer and a QGIS plugin. The iMOD 3d Viewer is a viewer for grids and datasets. It supports IDF files, Ugrid files and Grb.disu files that contain an unstructured layered grid. The Viewer also supports viewing some non-grid objects like IPF files and Shapefiles. The iMOD QGIS plugin aids exploring 4D geospatial data in QGIS. The primary components are Timeseries and cross-section visualization, connecting to the 3D viewer and reading IPF files.

More information on the iMOD Viewer can be found on the [open source portal](#)

Registered users can download the documentation and the set-up using a password. After downloading, please unzip the iMOD zip file and install the MSI file as described in Installation Instructions.

Contact bu email: [imod.support@deltares.nl](mailto:imod.support@deltares.nl)

Version	
Download	1
Total Files	2
File Size	0.00 KB

Subscribe to download

Your Name:

Enter Your Name

Enter Email

SUBSCRIBE

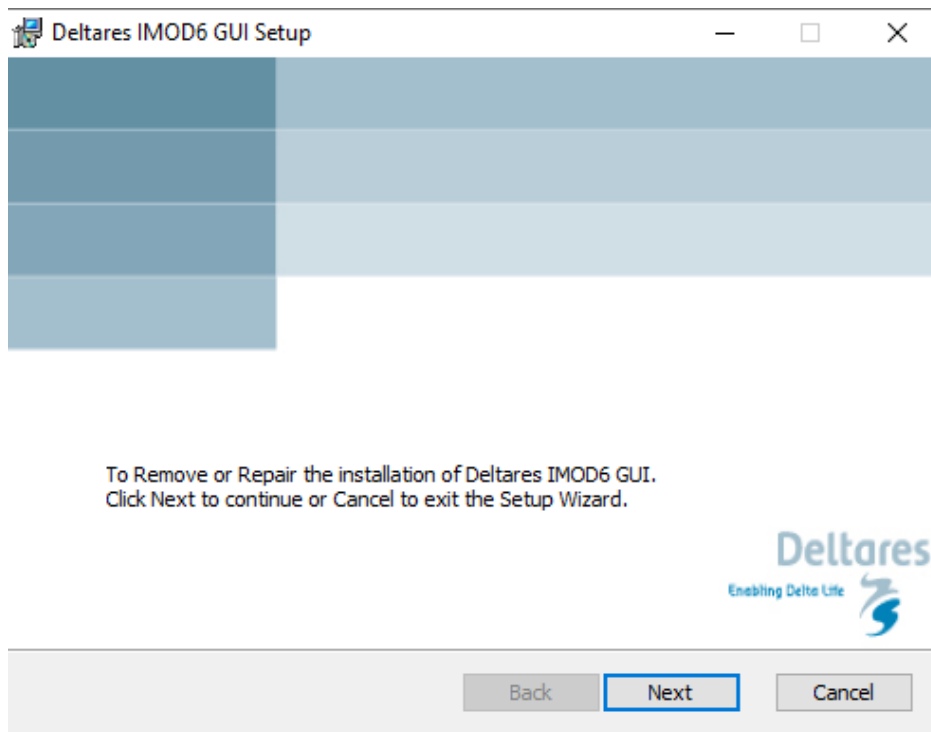
Deltares

<https://download.deltares.nl/en/download/imod-viewer/>

10

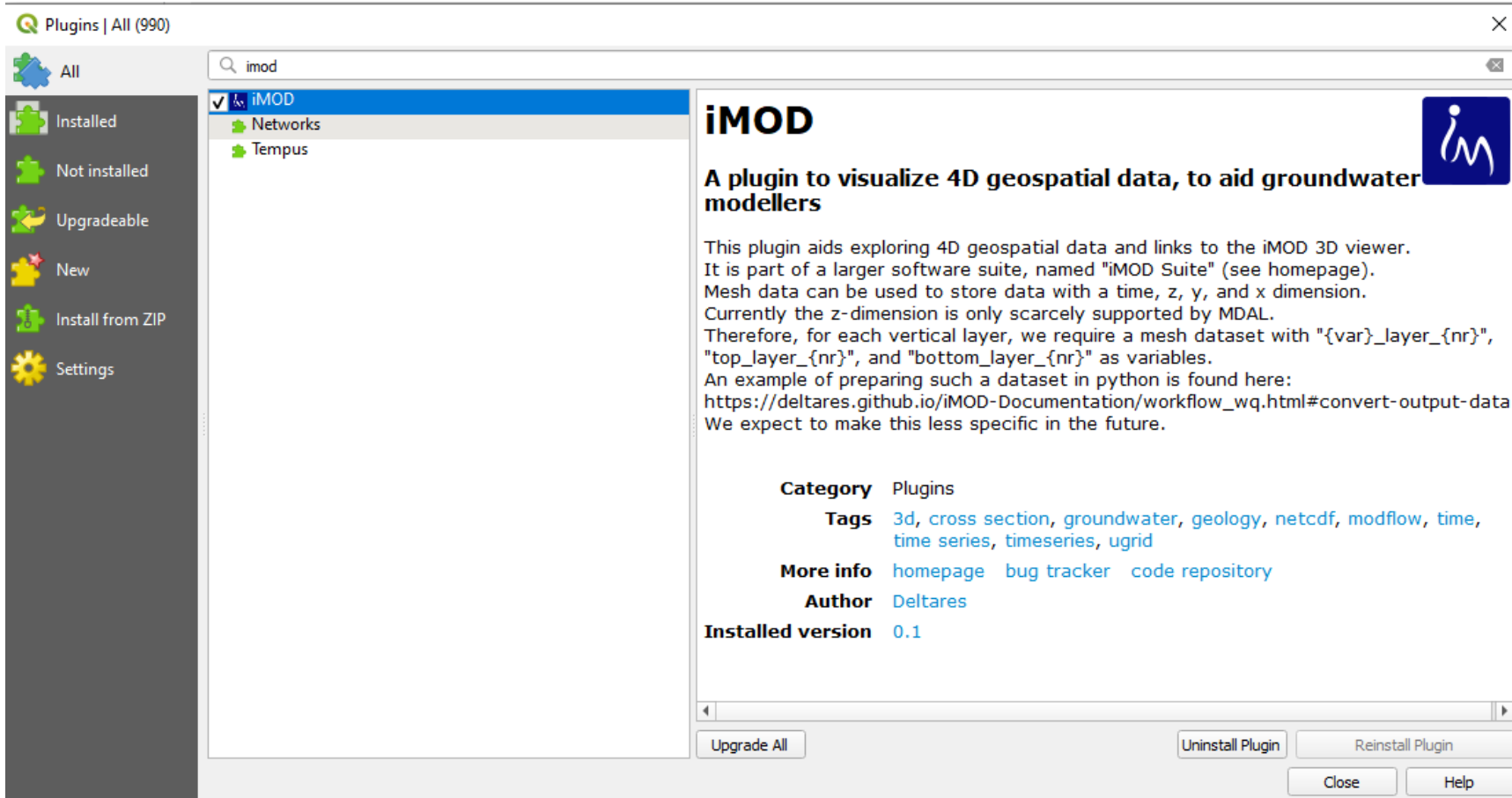
# Installation

Wizard to install iMOD 3D viewer + iMOD QGIS plugin



# Alternative

iMOD plugin is also available on the official QGIS plugin repository





# Data requirements

## **Layered, unstructured grid supported in UGRID format**

- E.g. The Modflow6 (DISV) package
- But also output of other computational kernels with unstructured grids (e.g. DFLOW-FM)

## **Structured grids (IDF, regular NetCDF) have to be converted to UGRID**

Example script with imod-python:

[https://deltares.github.io/iMOD-Documentation/workflow\\_wq.html#id2](https://deltares.github.io/iMOD-Documentation/workflow_wq.html#id2)

# Take home message

Easy visualization and 4D exploration of unstructured grids made possible with the iMOD Viewer + QGIS.

## Download links

- QGIS: <https://qgis.org/en/site/forusers/download.html>
- iMOD Viewer: <https://download.deltares.nl/en/download/imod-viewer/>

# Deltares