Bathymetry-WMTS

Area data for rivers and lakes

Data

Height measurement from lakes, harbor basins, sea beds or reservoir areas in rivers are gathered as „bathymetry data". Different methods are used, like multi-beam echo sounder or laser scanning techniques.

These height nets in grid files are stored and examined in **hisAREA**.

Computation

The WMTS computation module – fully integrated into the web desktop of **HIS'3D®** - computes (combining as well different grids) surface and isoline models and pictures.

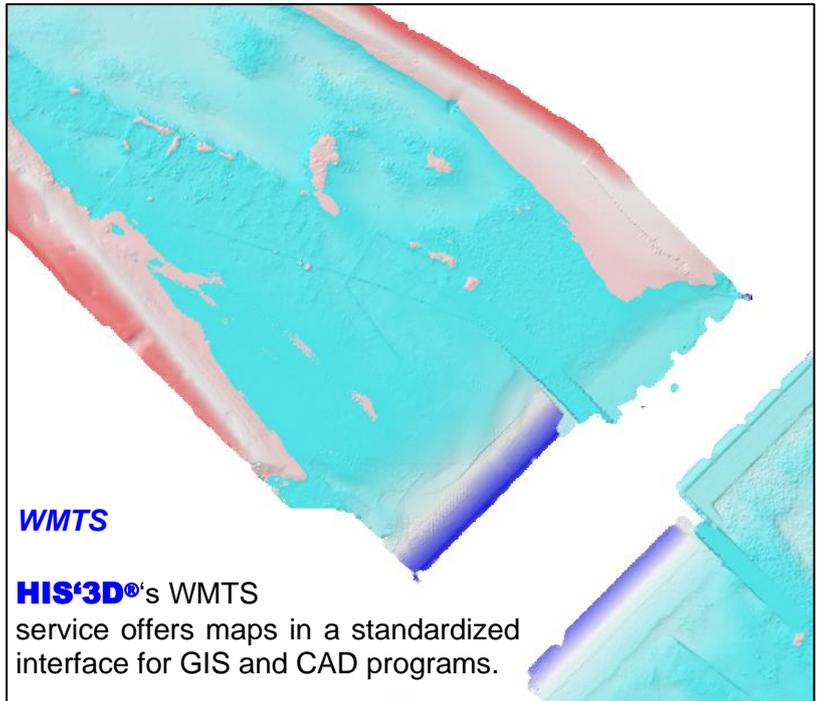- isoline maps
- with/without labeling
- shading

2D-Tiles are pre-computed in different resolutions, which thereafter are used as base data fort he WMTS service.

Different models are created, like

- height map
- deepness map (referring to water level, dam height, …)
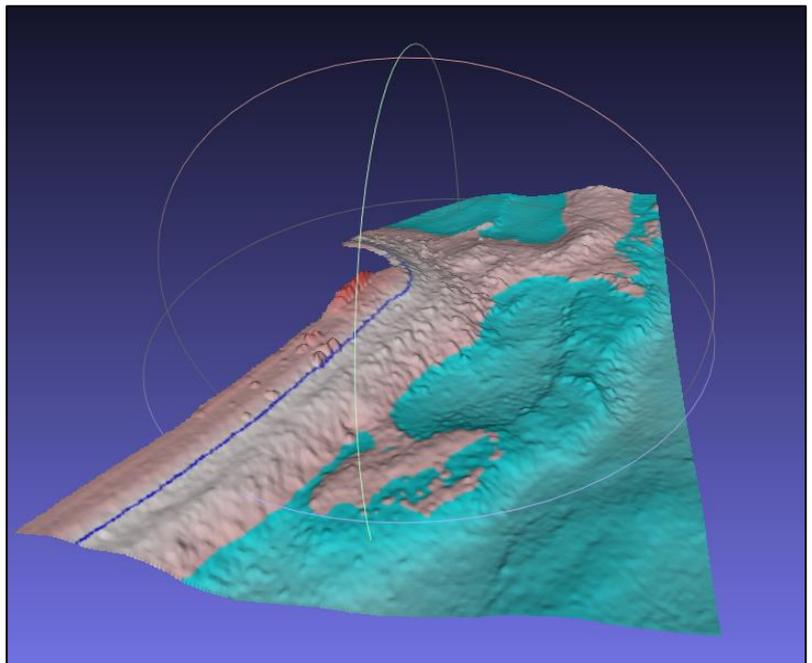- difference map to older measurements

WMTS

HIS'3D®'s WMTS service offers maps in a standardized interface for GIS and CAD programs.

vrHIS

As an option the module **vrHIS** creates real 3D models.

Film "Bathymetry at river power plant" created using WMTS, **vrHIS**; manually controlled by Xbox controller (demo-data).

Auswahl	Wert	Fläche	Linie		
	>=	Farbe	Stärke	Typ	Farbe
○	136.000		0		
○	140.000		1	durchgehend	
○	148.250		0		
○	148.260		0		
○	155.000		1	durchgehend	
○	162.000		0		

Setting colors and color gradients