GiGa infosystems

GST User Meeting 2021

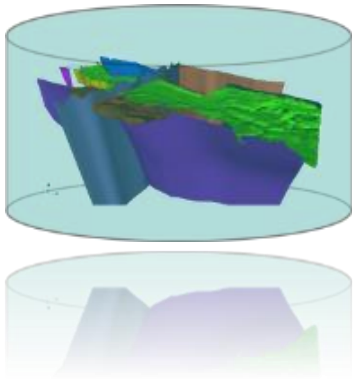
Webex Meetings

* Everyone is muted by default
* Raise your hand if you want to ask an immediate questions
* Use “Questions & Answers” or “Chat” to ask a general question; will be answered later
* Easy chat/Further questions during break

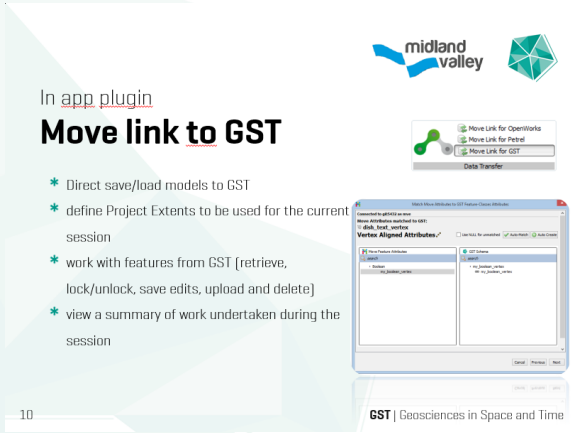
Agenda

* 9.00 – 10.20 Developments 2020, Paul Gabriel
* 10.20 – 10.50 GST[AR], Björn Wieczoreck
* 10.50 – 11.15 Break, Everyone
* 11.15 – 11.45 GST Use Cases @ Swisstopo,
  Roland Baumberger, Lance Reynolds
* 11.45 – 13.00 Roadmap 2021/22, Paul Gabriel and all

GiGa infosystems



* Team of 7
  (2 Backend, 1 Desktop, 2 Web, 1 DevOps,)
* **Oracle Partner, GIS Award**
* Cooperation with
  * TU Bergakademie Freiberg
  * Petex (MOVE)



Development Customers 2020

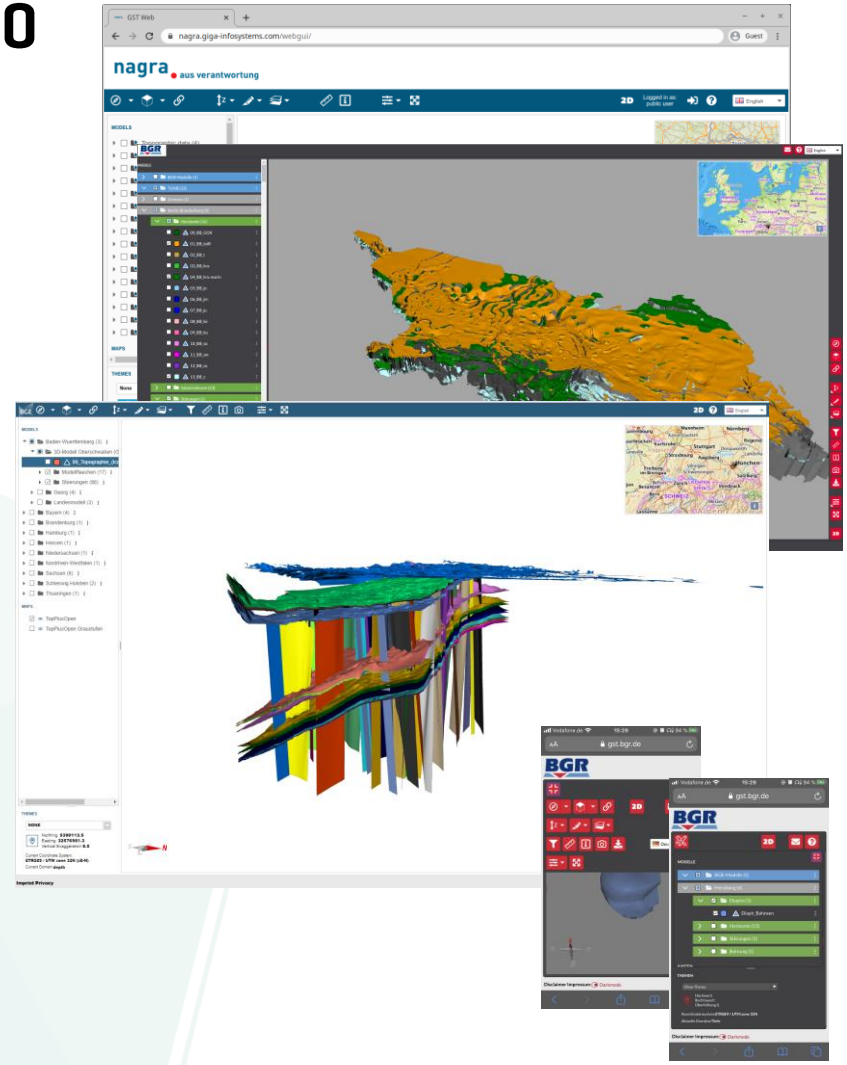
Nagra (SaaS)

BGE (SaaS)

BGR

LUNG

Software as a Service-Modell



Development GST 3 in 2020

* 237 Bugs fixed
* 83 Improvements
* 66 New Features
* 3 Releases

* 89 Issues closed in Servicedesk, 93 new ☹ (14 waiting for customer, 9 in progress)

Developments 2020

- Main developments with BGR, Bavaria and Swisstopo:
  - **Query Feature per polygon**
  - **Change Owner of MoMa Element or Feature Class**
  - **Snapshot of Feature Class**
  - **Snapshot of Feature Selection**
  - **Improve Feature and Feature Class View**
  - **Color Maps for discrete Feature Properties**

Developments 2020

- Main developments with BGR, Bavaria and Swisstopo:
  - **Alias for Feature names**
  - **Grid Shift Files in SRS Definitions**
  - **Transform SRS of Feature Class**
  - **Features with Z-Axis Domain in Time**
  - **Smaller Improvements**

Developments 2020

- Main developments with BGR and Swisstopo:
  - **Labels for Features**
  - **Screenshot functionality**
  - **Improved support for mobile**
  - **Store default views for Features and MoMa Elements**
  - **Point and Line geometries use the projected 2D geometry on maps**
  - **Snap to geometry interaction in the 2D view**

Developments 2020

- Main developments with BGR, Bavaria and Swisstopo:
  - **Speedup of common operations**
  - **Pre-defined names for Feature Class Snapshot**
  - **Auto-fix name conflicts on ownership change**
  - **Better error report when downloading multiple Features**
  - **Sort lists by name**
  - **Scalebar in Section Images**
  - **Sort Child Nodes by Name**
  - **Admin can reset user passwords**
  - **More information in Desktop title and name**

Developments 2020

* Main developments with Bavaria, Saxony:
  * **Direct Import of SEGY**
  * **Constrained Tables / Joined Tables**
  * **Color Map management**
  * **Color Map Export and Import**
  * **Maintenance mode on GST Server**
  * **Read and Write Gocad Voxet Integer Properties**
  * **Up- and Download a subset of Feature Properties**
  * **Read and Write Gocad Voxet Regions**

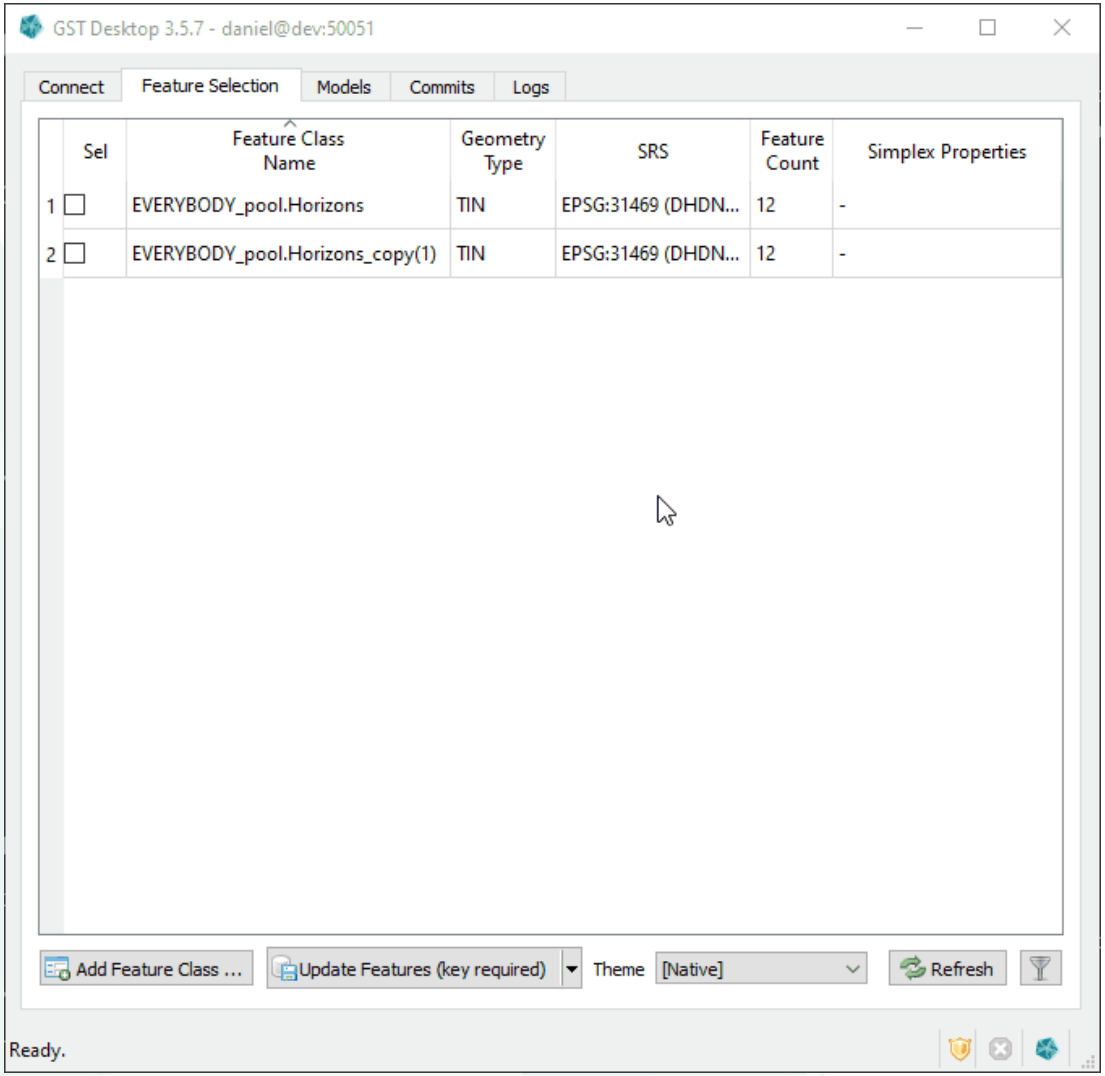
GST Desktop

- Database like functions
- Improvements of the GUI
- Renewed Color Map Management
- Admin can reset user passwords
- More information in Desktop title and name
- Integer properties for Voxets
- Regions for Voxets

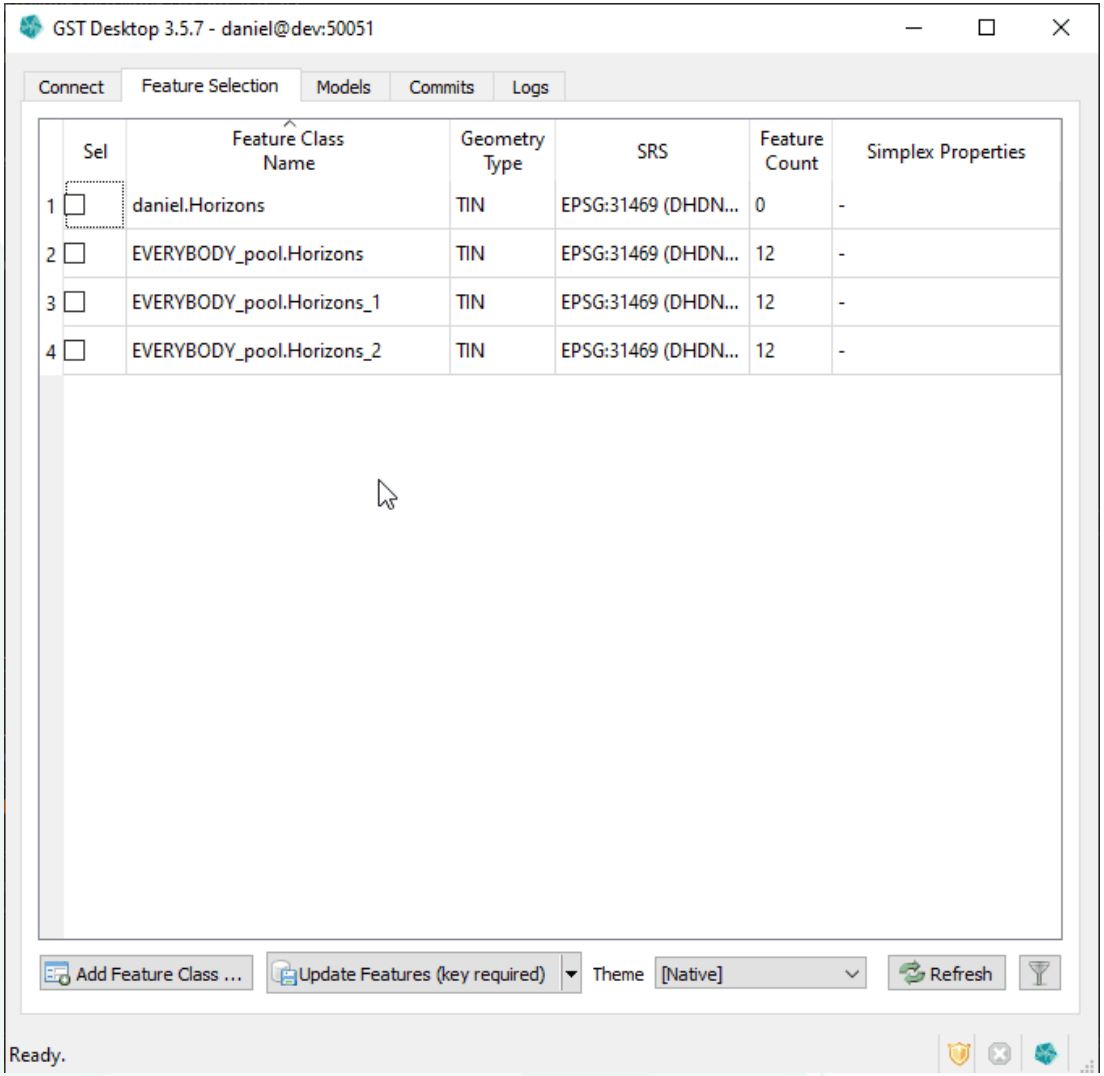
Speedup of common operations

- We worked on improving the performance of some common operations:
  - connecting and refreshing,
  - opening a Feature Class,
  - upload and deletion of certain geometries,
  - expanding a MoMa Tree Node, esp. one with many Feature Nodes.
- You should notice a significant speedup.
- Furthermore, client- and serverside RAM usage has been optimized for certain operations.

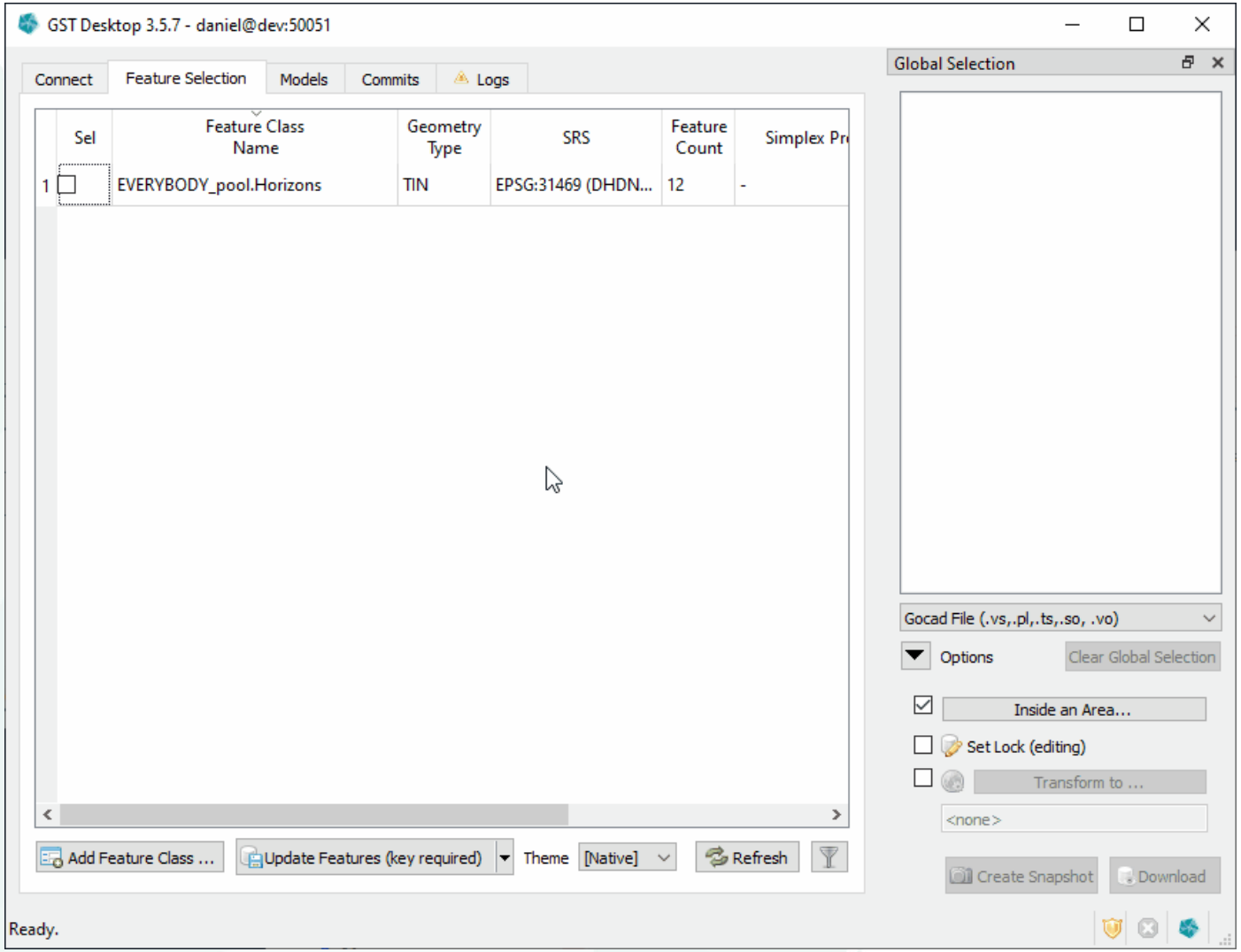
Pre-defined names for Feature Class Snapshot



Auto-fix name conflicts on ownership change



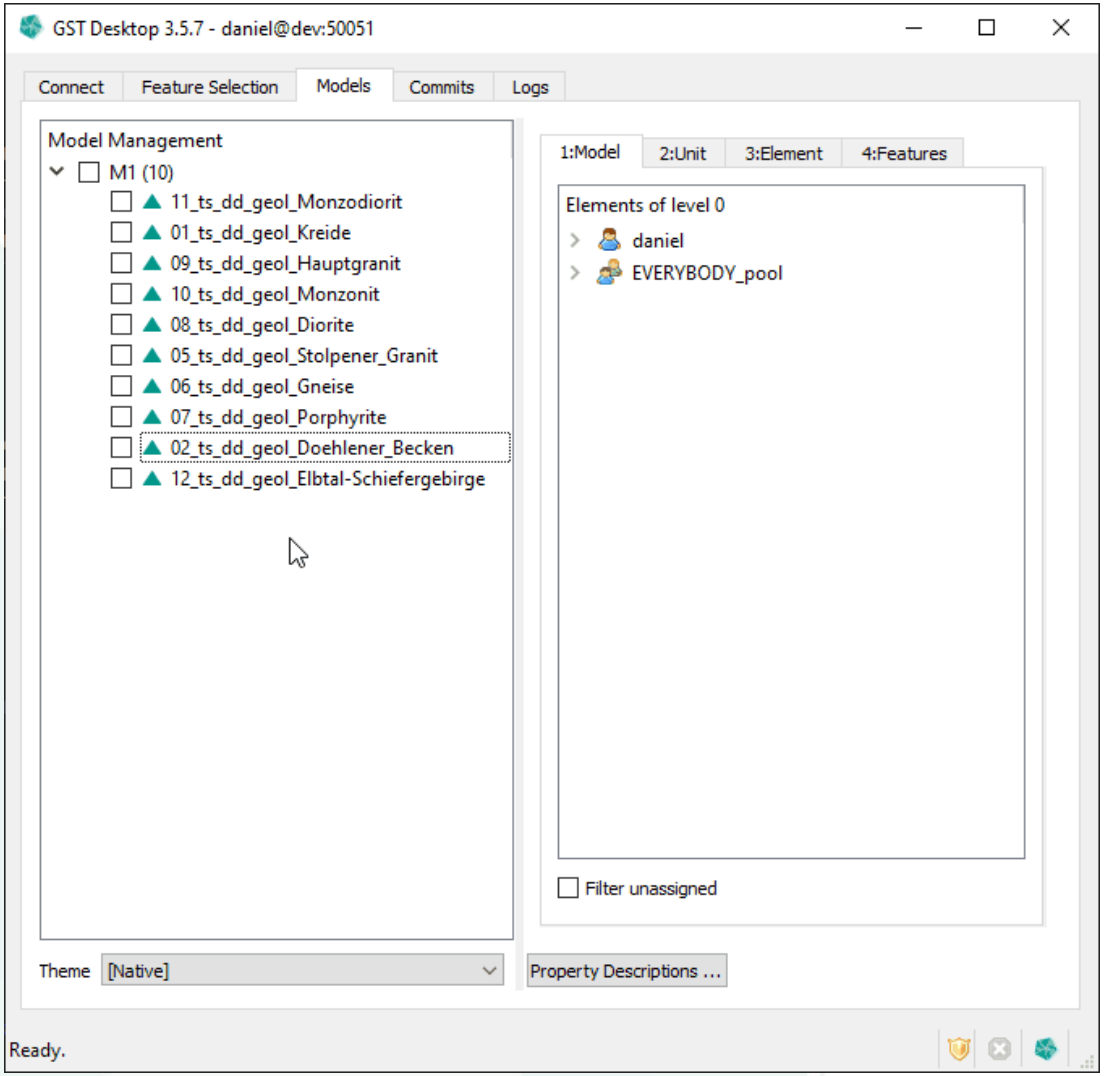
Better error report when downloading multiple Features



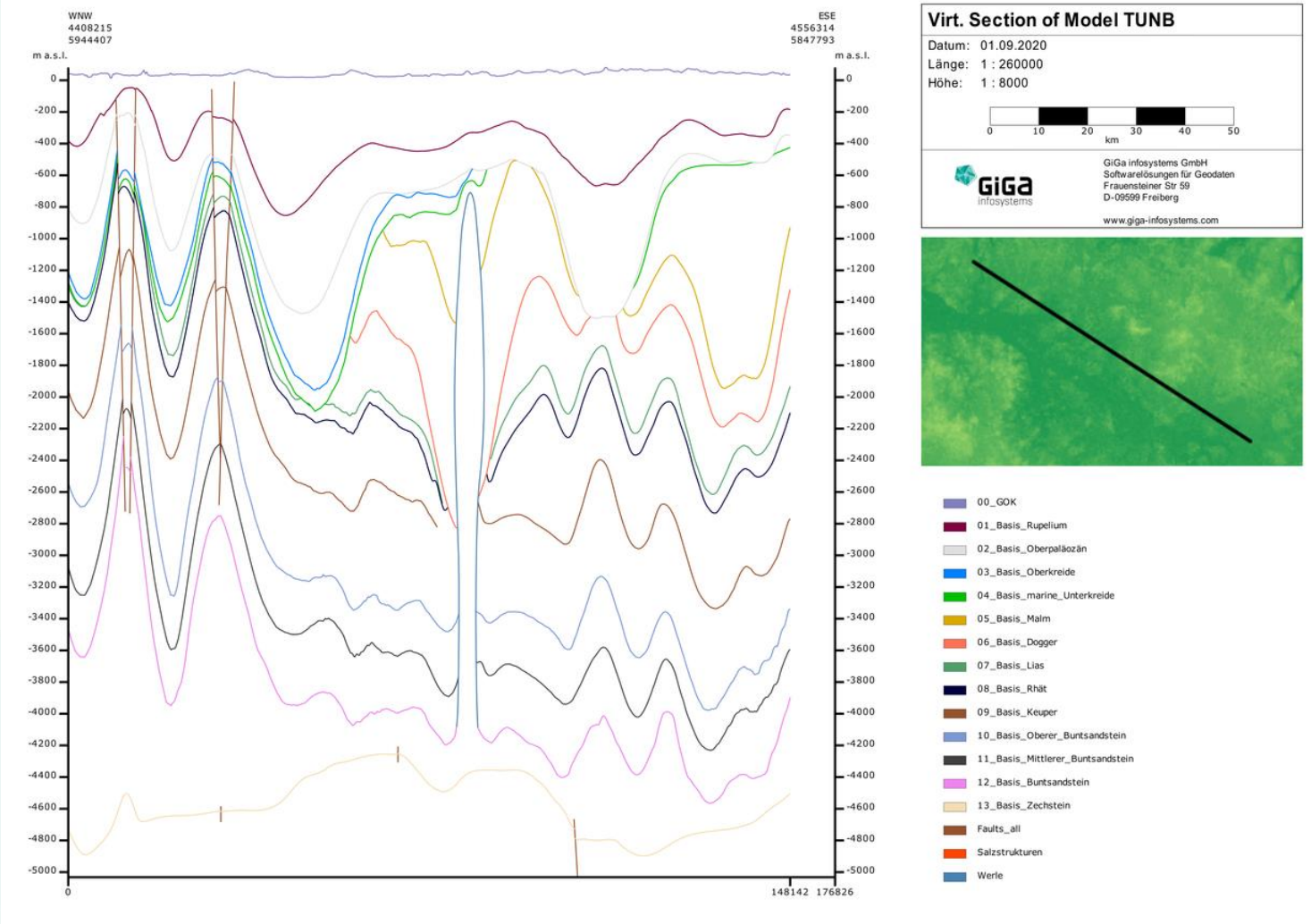
Sort lists by name

- Lists in GST Desktop are now sorted by name, this includes:
  - Users and Groups
  - SRS
  - Feature Classes
  - Attributes and Properties
  - Features
  - Colormaps
  - MoMa Elements

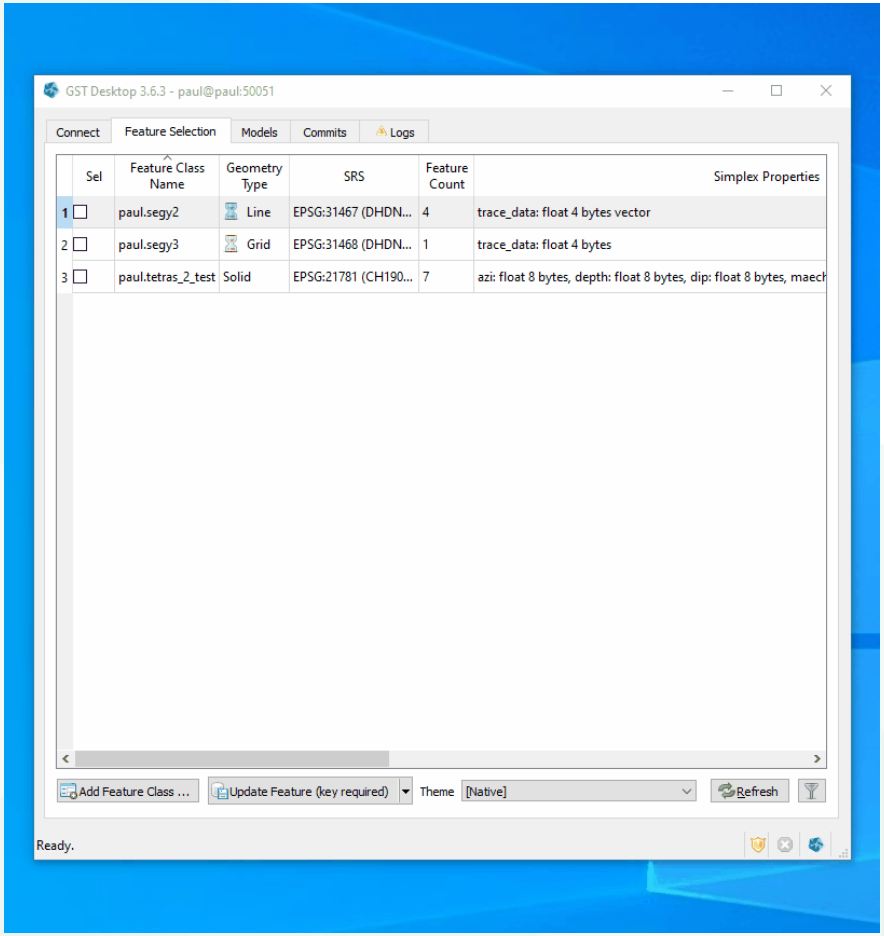
Sort Child Nodes by Name

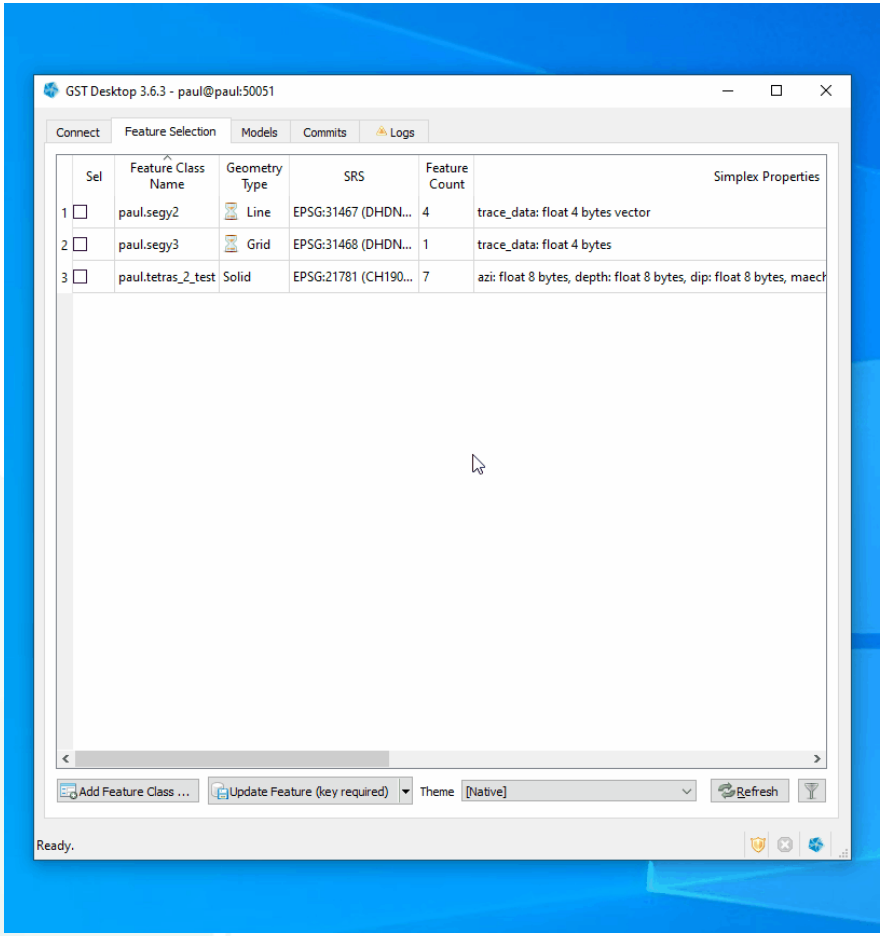


Scalebar in Section Images

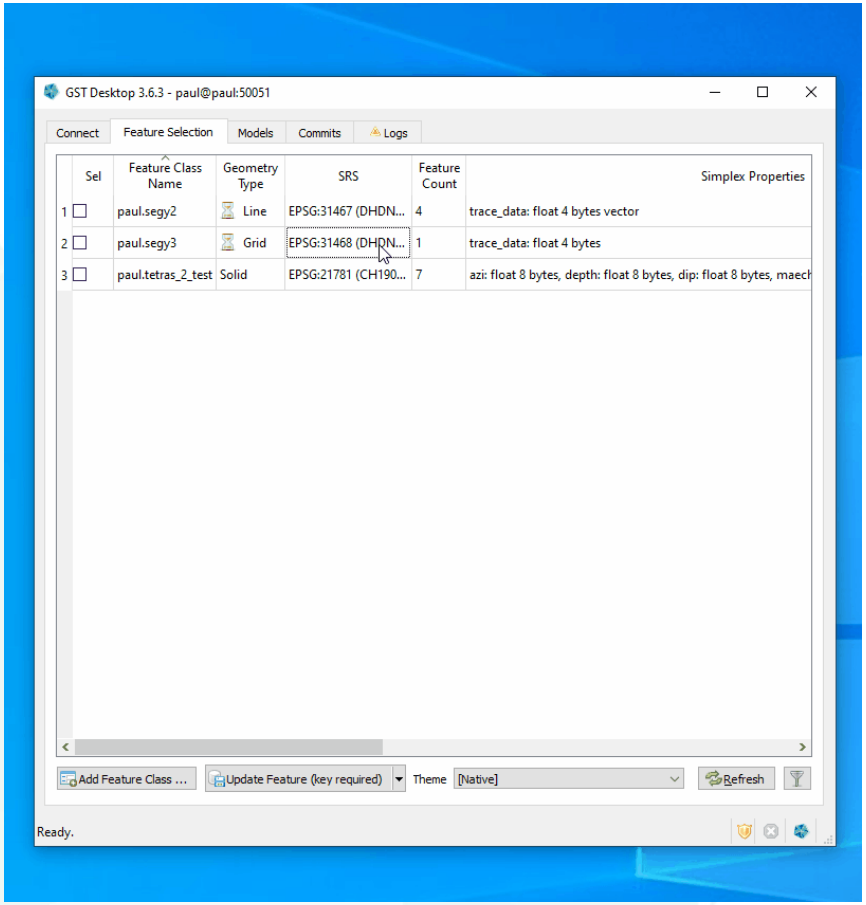


Import/Export Color Maps

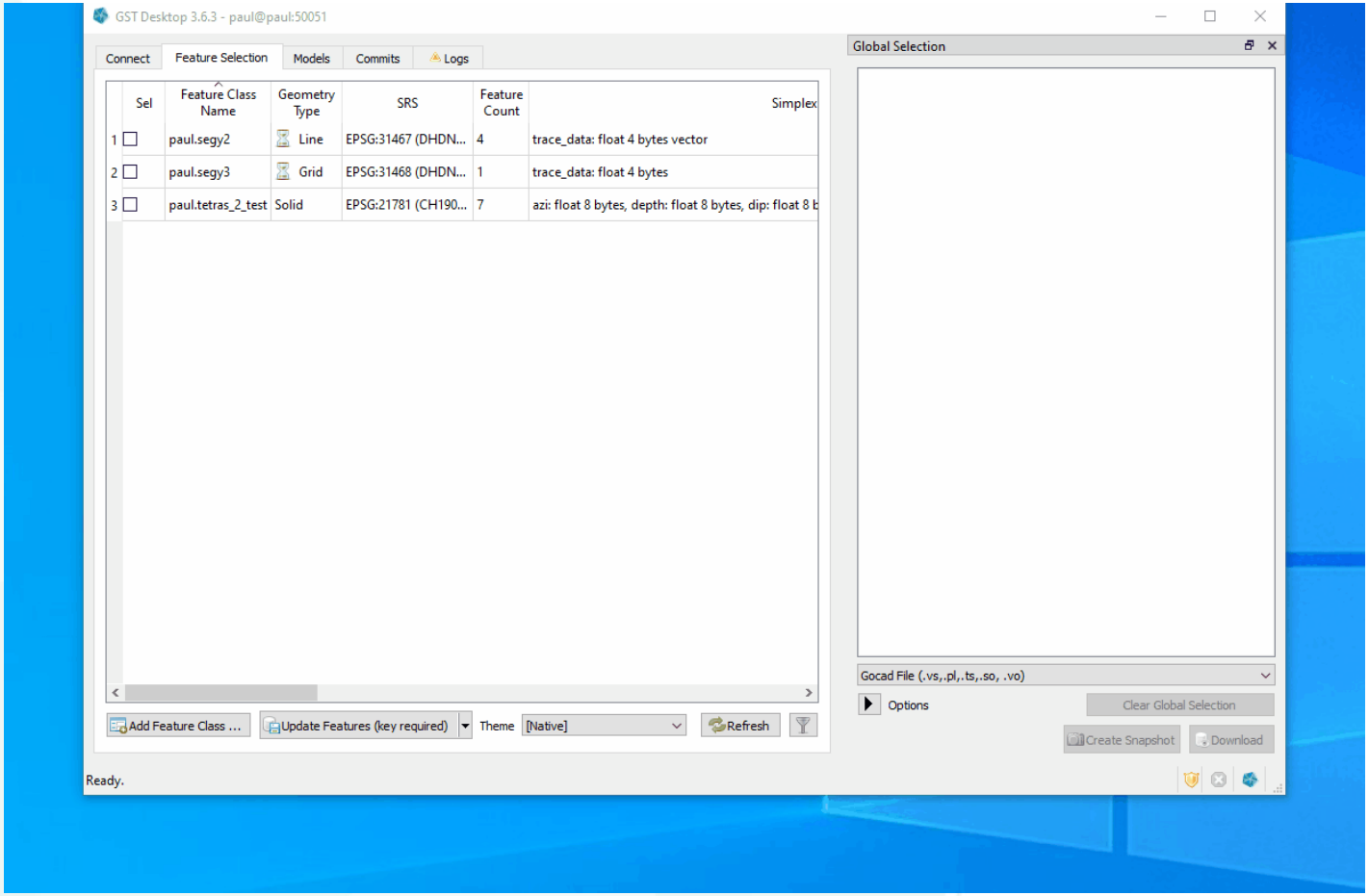




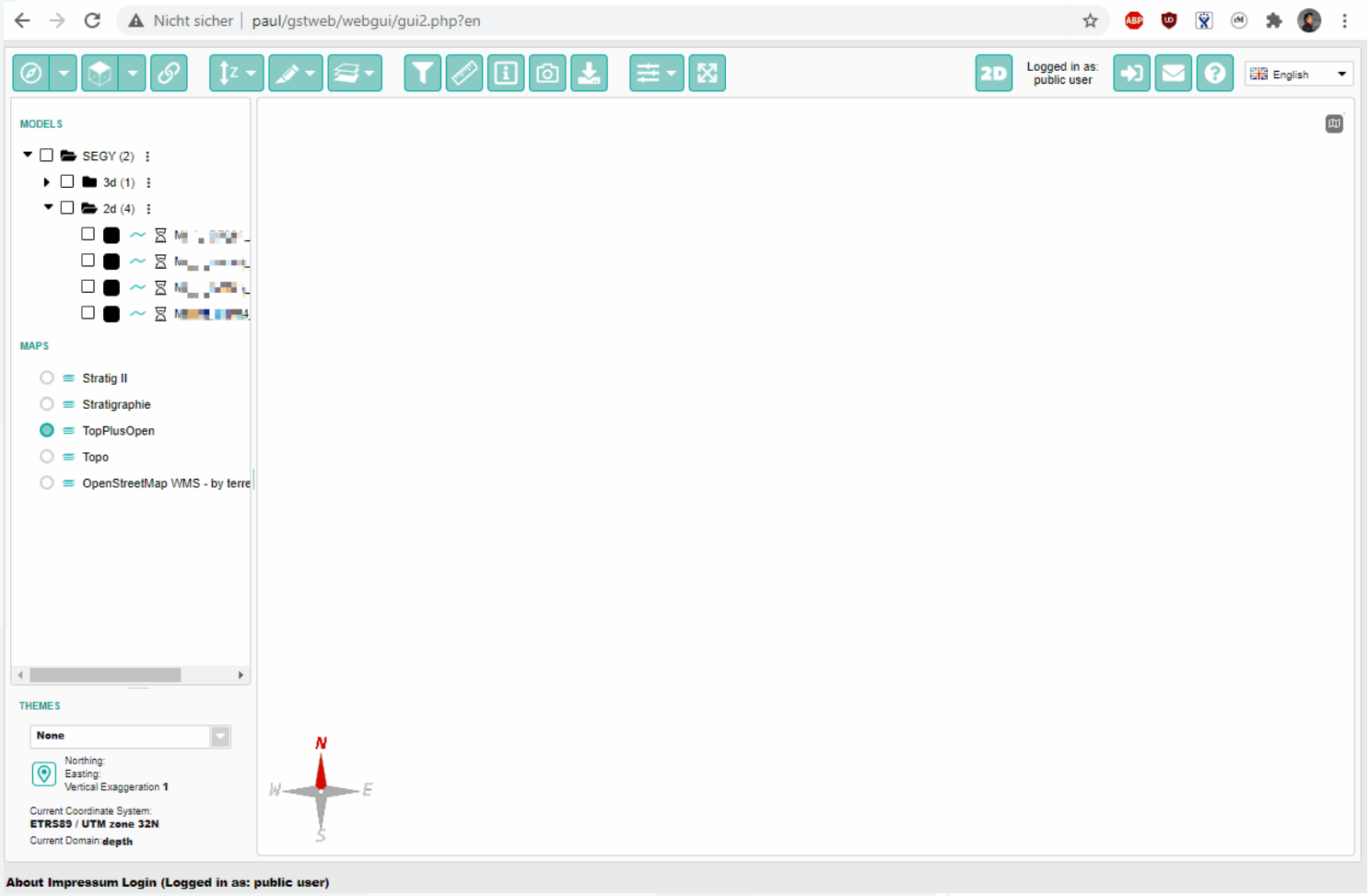
Editing of Color Maps



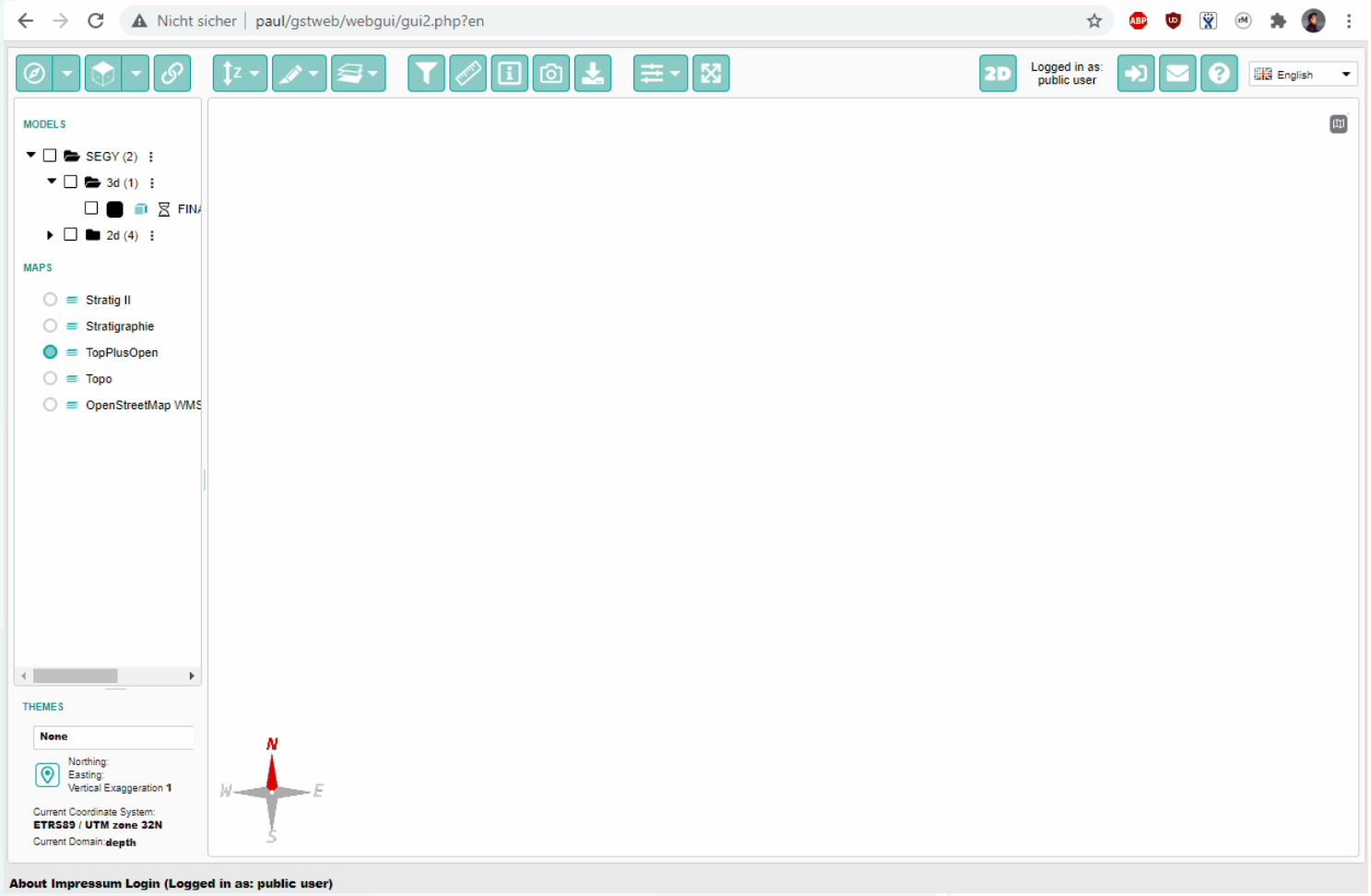
SEGY import


GST Desktop 3.6.3 - paul@paul:50051
Connect
Feature Selection
Models
Commits
Logs
Sel
Feature Class Name
Geometry Type
SRS
Feature Count
Simplex
1 paul.segy2 Line EPSG:31467 (DHDN... 4 trace_data: float 4 bytes vector
2 paul.segy3 Grid EPSG:31468 (DHDN... 1 trace_data: float 4 bytes
3 paul.tetras_2_test Solid EPSG:21781 (CH190... 7 azi: float 8 bytes, depth: float 8 bytes, dip: float 8 b
Add Feature Class ...
Update Features (key required)
Theme
[Native]
Refresh
Global Selection
Gocad File (.vs,.pl,.ts,.so, .vo)
Options
Clear Global Selection
Create Snapshot
Download
Ready.

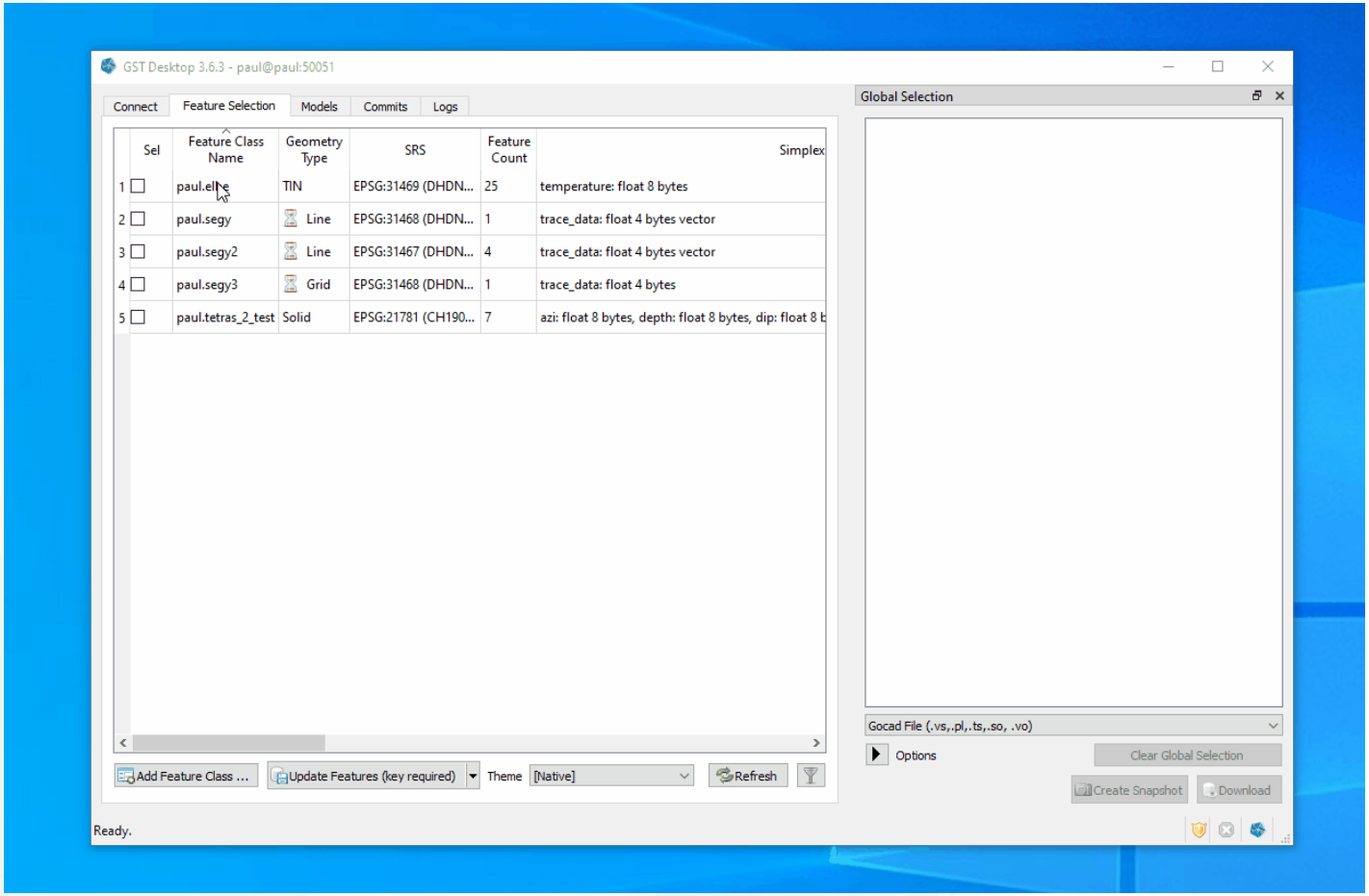
SEGY Display



SEGY Display



Joined Tables / Constrained Tables

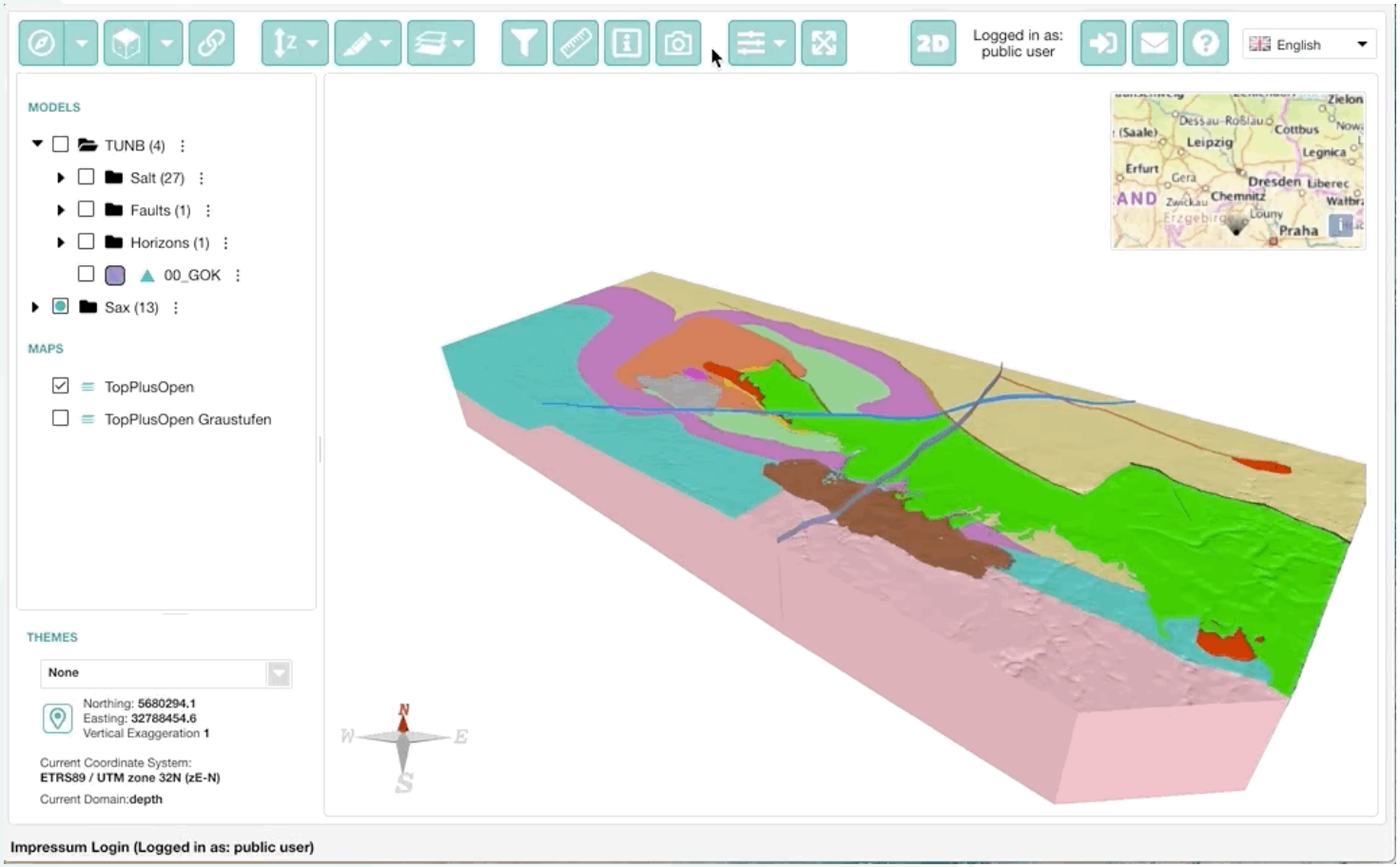


GST Web

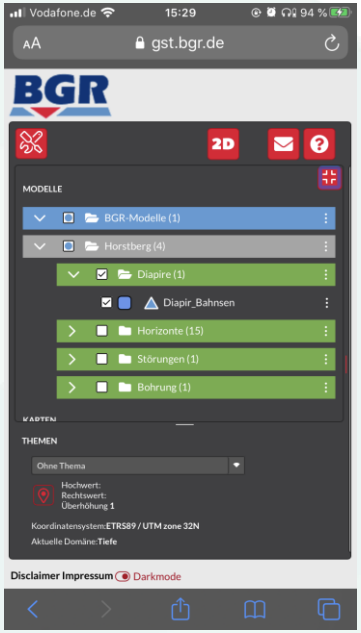
- Labels in 3D
- Improved Mobile Support
- Screenshot functionality
- Default View for Elements
- Snapping
- Display of Lines and Pointsets
- Statistics (SaaS only)

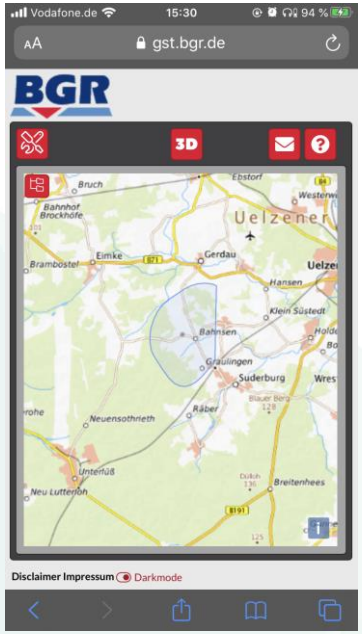
Labels for Features

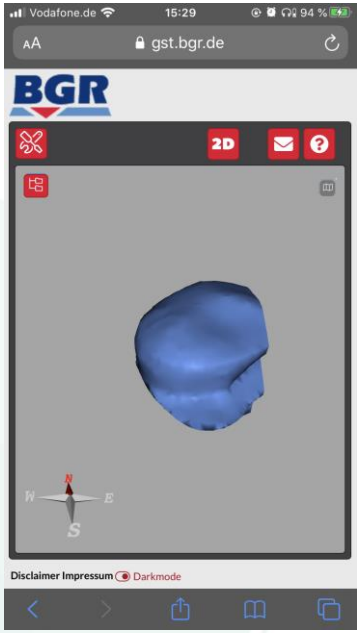
Screenshot functionality

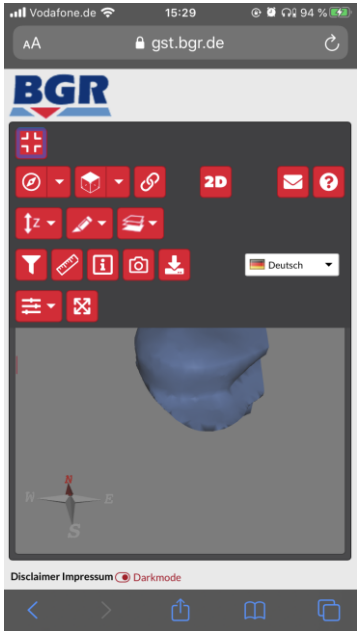


Improved support for mobile

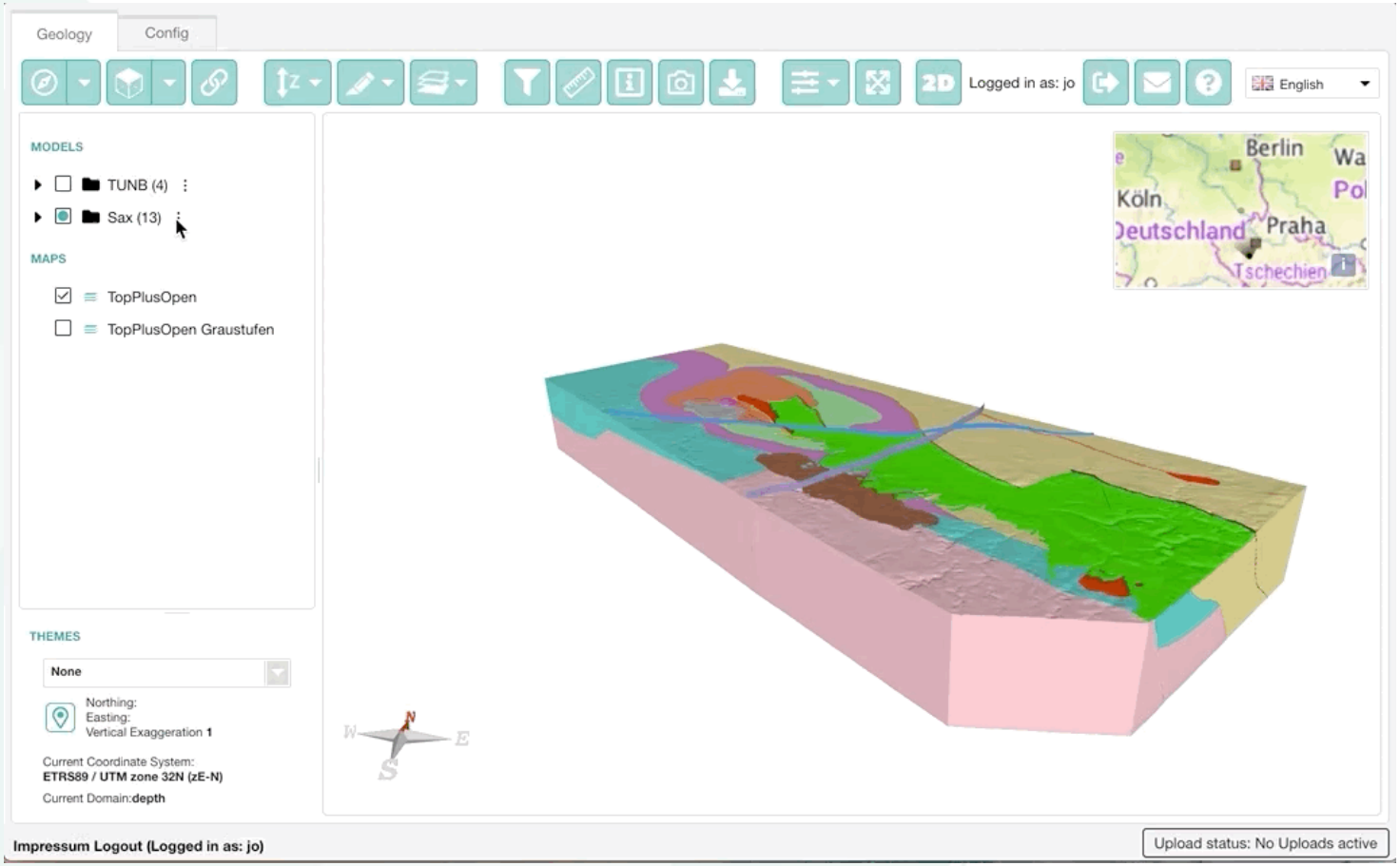




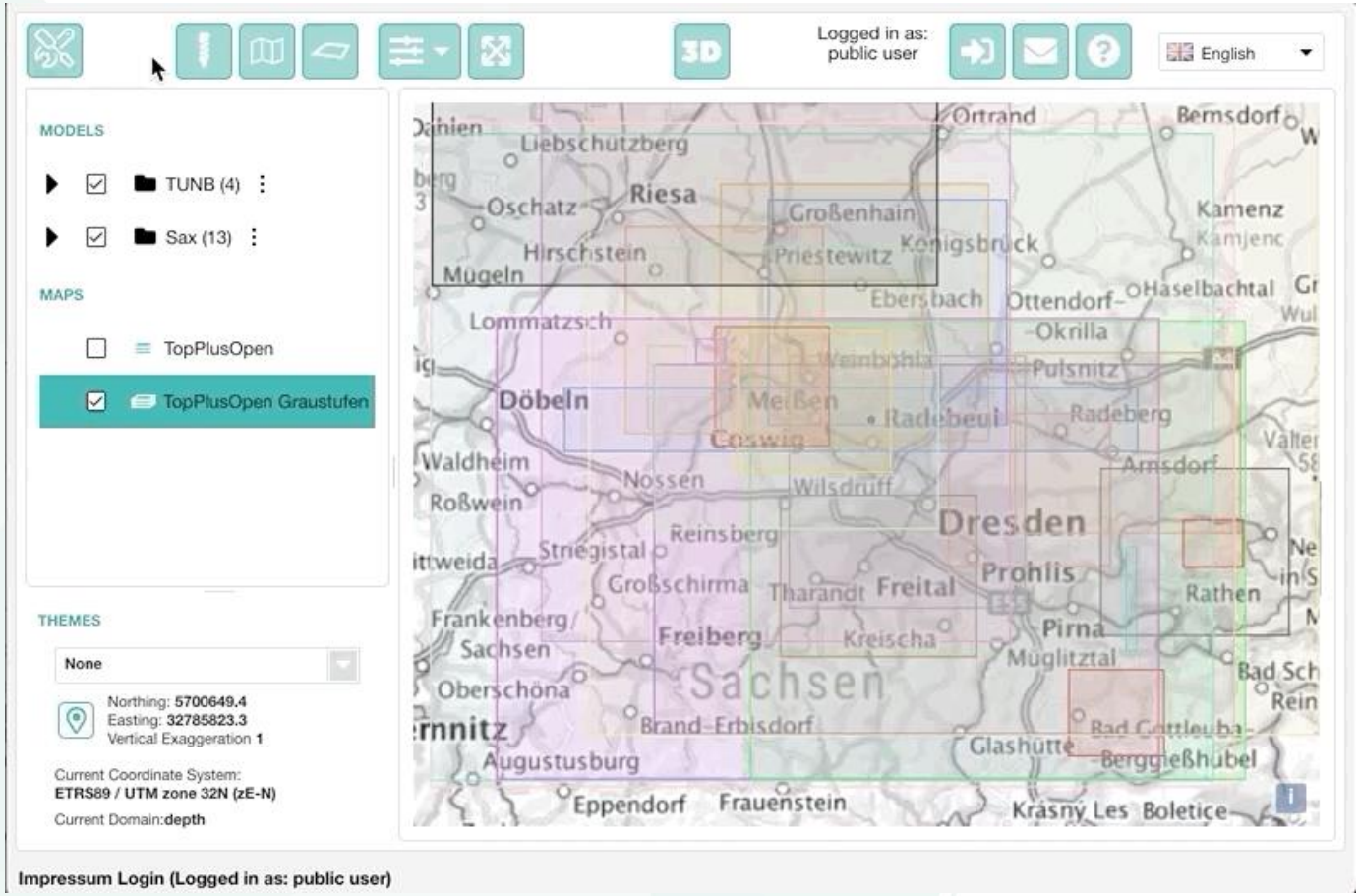




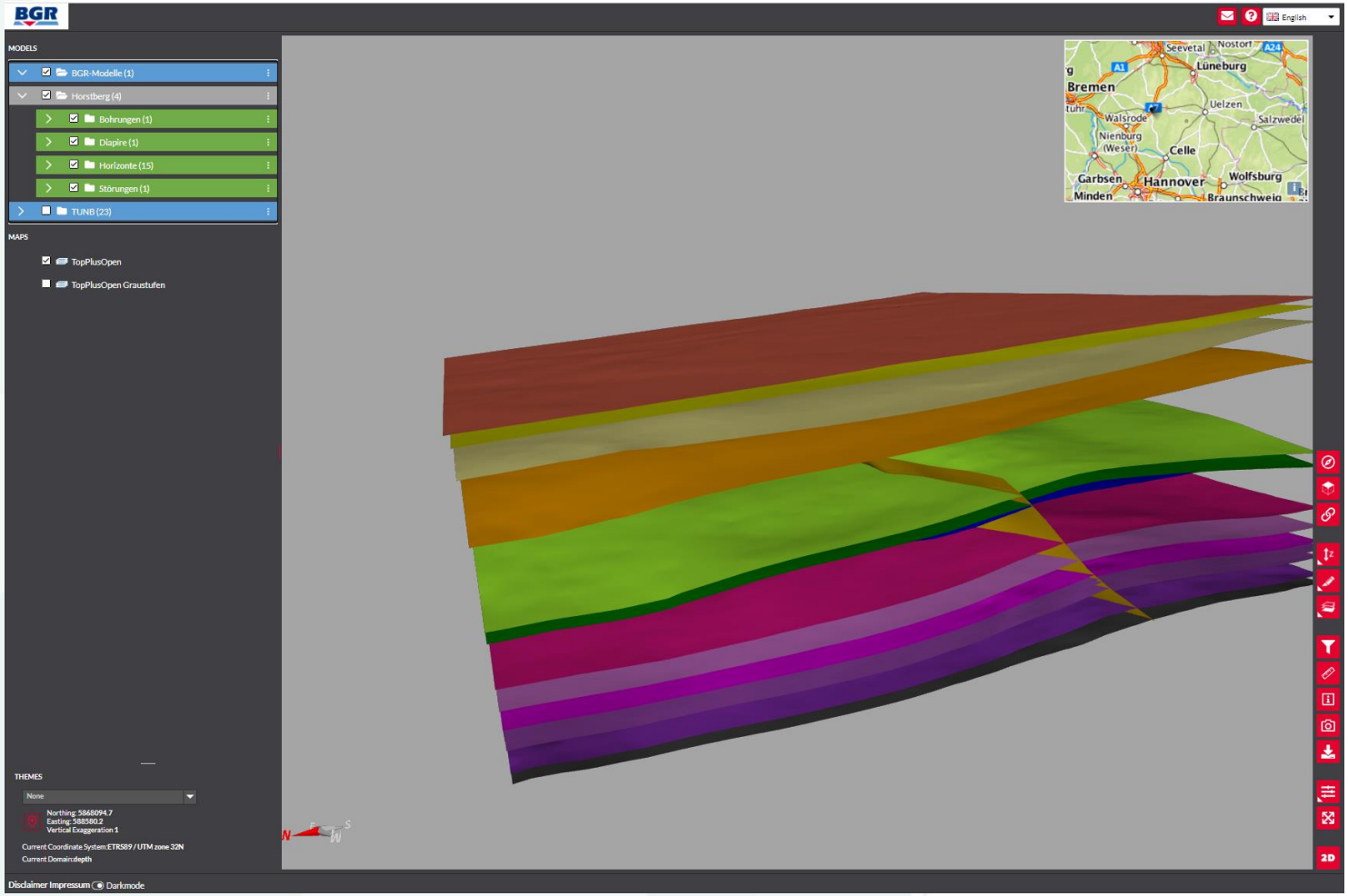
Store default views for Features and MoMa Elements



Snap to geometry interaction in the 2D view

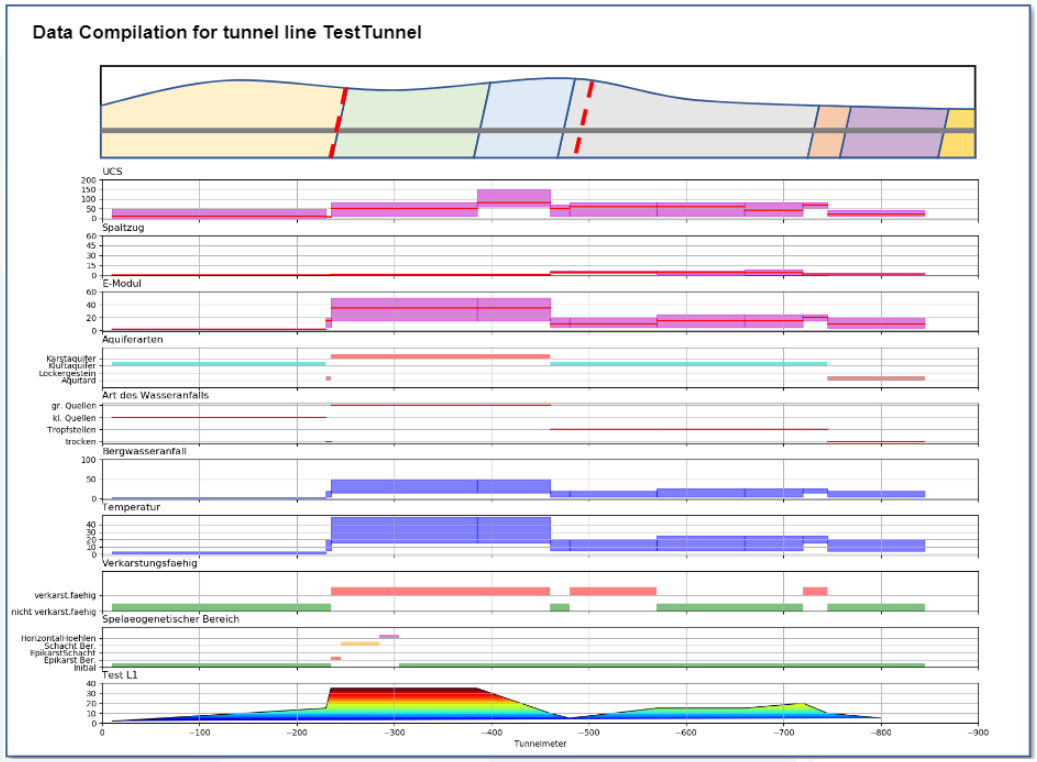


Dark Mode, Side Toolbar, Enhanced Disclaimer



BIM Sections

* Project with Nagra and Geoldee (CH)



Server Maintenance Mode

```
Entered GST Server maintenance mode.

Please input a maintenance operation and press enter.
[1]) Vacuum the current database.
[2]) Reset the administrative password.
[3]) Clear orphaned files from GST Storage.
[4]) Clear orphaned entries from the database.
[5]) Track GST Server processes statistics.
[6]) Exit.
```

PID	NAME	START_TIME	CPU_USE	RAM (Kb)	READ (Kb)	WRITTEN (Kb)	STATUS
3725	-c;config.cop.toml	1615306558	0.02	59876	47247	0	Sleeping
3727	-c;config.cop.toml	1615306558	0.00	0	29	0	Sleeping
3728	-c;config.cop.toml	1615306558	0.00	0	127	0	Sleeping
3729	-c;config.cop.toml	1615306558	0.00	0	516	0	Sleeping
3740	-c;config.cop.toml	1615306558	0.00	0	848	0	Sleeping
3741	-c;config.cop.toml	1615306558	0.00	0	45	0	Sleeping
3742	-c;config.cop.toml	1615306558	0.00	0	57	0	Sleeping
3743	-c;config.cop.toml	1615306558	0.00	0	16	0	Sleeping
3744	-c;config.cop.toml	1615306558	0.00	0	57	0	Sleeping
3745	-c;config.cop.toml	1615306558	0.00	0	74	0	Sleeping
3746	-c;config.cop.toml	1615306558	0.00	0	49	0	Sleeping
3747	-c;config.cop.toml	1615306558	0.00	0	33	0	Sleeping
3748	-c;config.cop.toml	1615306558	0.00	0	848	0	Sleeping
3749	-c;config.cop.toml	1615306558	0.00	0	2482	0	Sleeping
3750	-c;config.cop.toml	1615306558	0.00	0	0	0	Sleeping
3751	-c;config.cop.toml	1615306558	0.00	0	496	0	Sleeping
3752	-c;config.cop.toml	1615306558	0.00	0	66	0	Sleeping
3753	-c;config.cop.toml	1615306558	0.00	0	471	0	Sleeping
3754	-c;config.cop.toml	1615306558	0.00	0	5153	0	Sleeping
3755	-c;config.cop.toml	1615306558	0.00	0	254	0	Sleeping
3756	-c;config.cop.toml	1615306558	0.00	0	0	0	Sleeping
3757	-c;config.cop.toml	1615306558	0.00	0	0	0	Sleeping
3758	-c;config.cop.toml	1615306558	0.00	0	61	0	Sleeping
3759	-c;config.cop.toml	1615306558	0.00	0	336	0	Sleeping

```
Press [any key] to return to maintenance menu.
```

Questions?

Remarks?

Wishes?

Björn Wieczoreck (GiGa infosystems)
GST[AR]

Roland Baumberger, Lance Reynolds (Swisstopo)
Use Cases of GST @ Swisstopo

Roadmap 2021

* 2D Grids / Elevation Grids
* SGRIDs
* Texture Coordinates
* Query Features by polygon - complex polygons
* Write Protected Feature Classes
* Query Dialog

Roadmap 2021

* Shape export
* Versioning of Feature Attributes
* GST[AR] Android
* GST Web Rewrite
* Boreholes
* Usermeeting 2022

Questions?

Remarks?

Wishes?

Thank you!

www.giga-infosystems.com