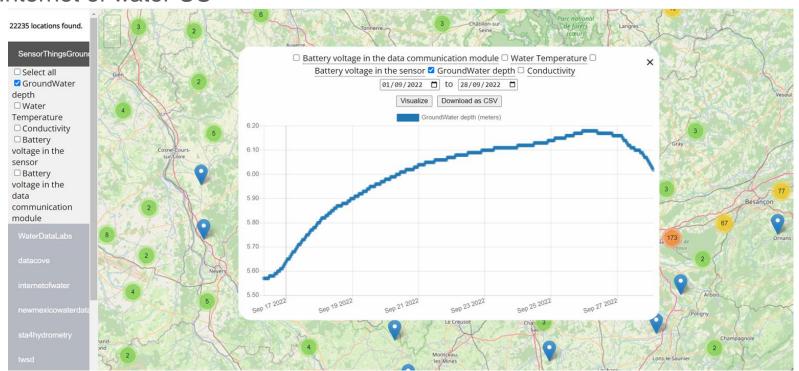
Webinaire SensorThings API

Some STA Clients for SensorThings - Collective Brainstorming

Known Viewers

- Genesis
- STAM
- QGIS: https://github.com/AirBreak-UIA/SensorThingsAPI_QGIS-plugin
- Grafana: https://grafana.com/grafana/plugins/iosb-sensorthings-datasource/
- Geomatys Examind Community
- Many ad'hoc deployment (HTML, JS, R shiny): Internet of Water US, BRGM, UMF SAS (cf presentation)
- Jupyter Notebook
- And this list was only done in an hour...

Internet of water US

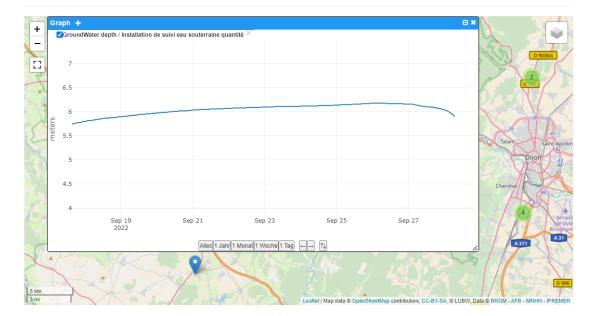


Fraunhofer WebGenesis

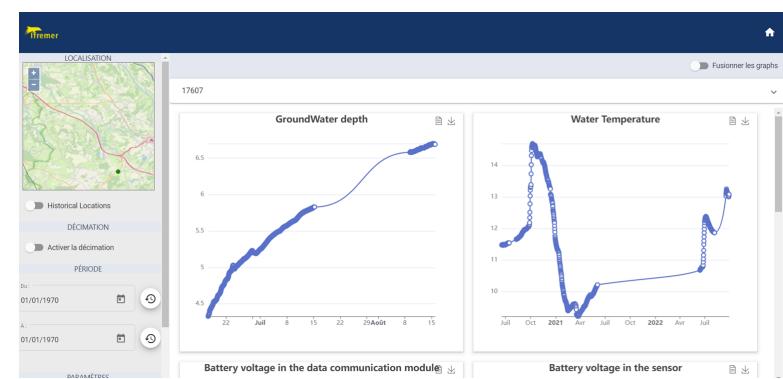




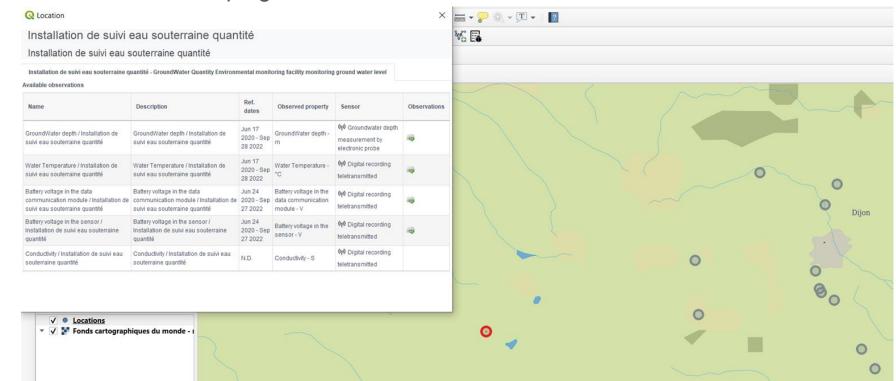
Franco-Germanic Flow



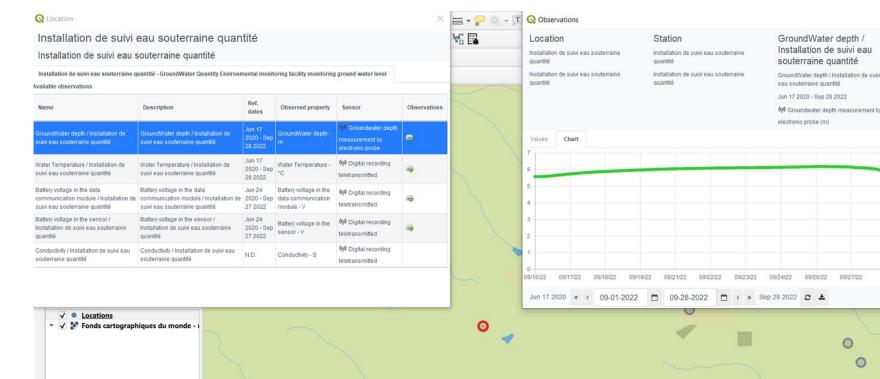
Geomatys Examind Community



QGIS new ST API plugin

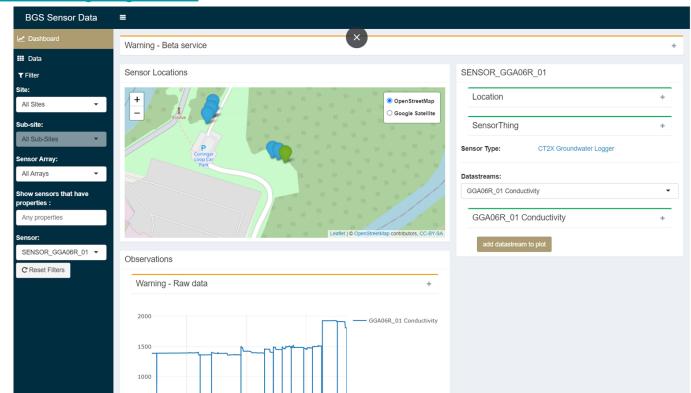


QGIS new ST API plugin



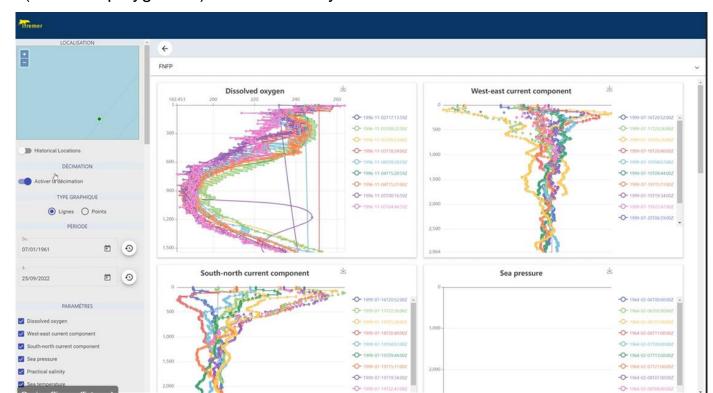
Non related examples

R Shiny Dashboard > https://sensors-gui.bgs.ac.uk/



Non related examples

IFREMER ST API Client (Examind playground) on ARGO buoy demoed live



Non related examples

https://github.com/BritishGeologi calSurvey/sensor-things-apidemo/blob/main/sensor-thingsapi-demo.ipynb

```
# Plot
fig, ax = plt.subplots(figsize=(8, 6))

for i, datastream in enumerate(json_data):
    data = parse_datastream(datastream)
    # Data are noisy so we smooth by applying a rolling mean filter
    smoothed = data['observations'].rolling(window=24).mean()
    smoothed.dropna(inplace=True)
    smoothed.plot(ax=ax, label=data['name'])

ax.grid()
ax.set_ylabel(f"{data['unit_name']} ({data['unit_symbol']})")
ax.set_title("Water temperature from UKGEOS Groundwater Loggers")
ax.legend(loc='center left', bbox_to_anchor=(1, 0.5))

fig.savefig('water_temperature.png', facecolor="white", bbox_inches="tight")
```

