

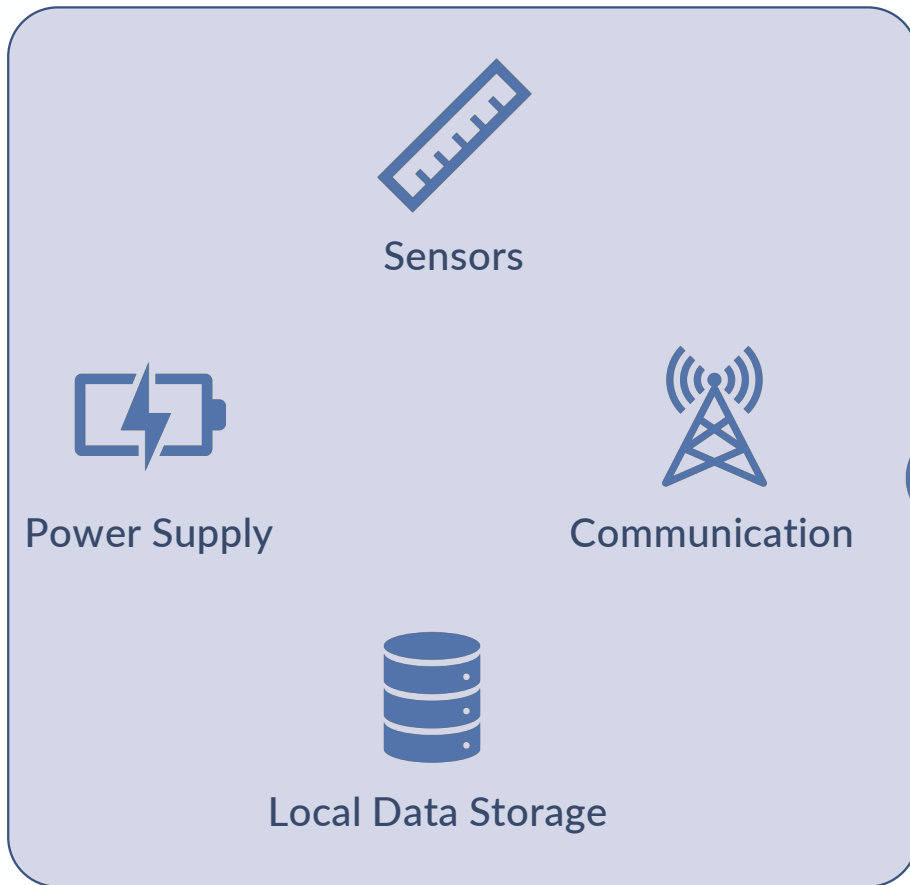


# Turnkey solution for hydrological monitoring

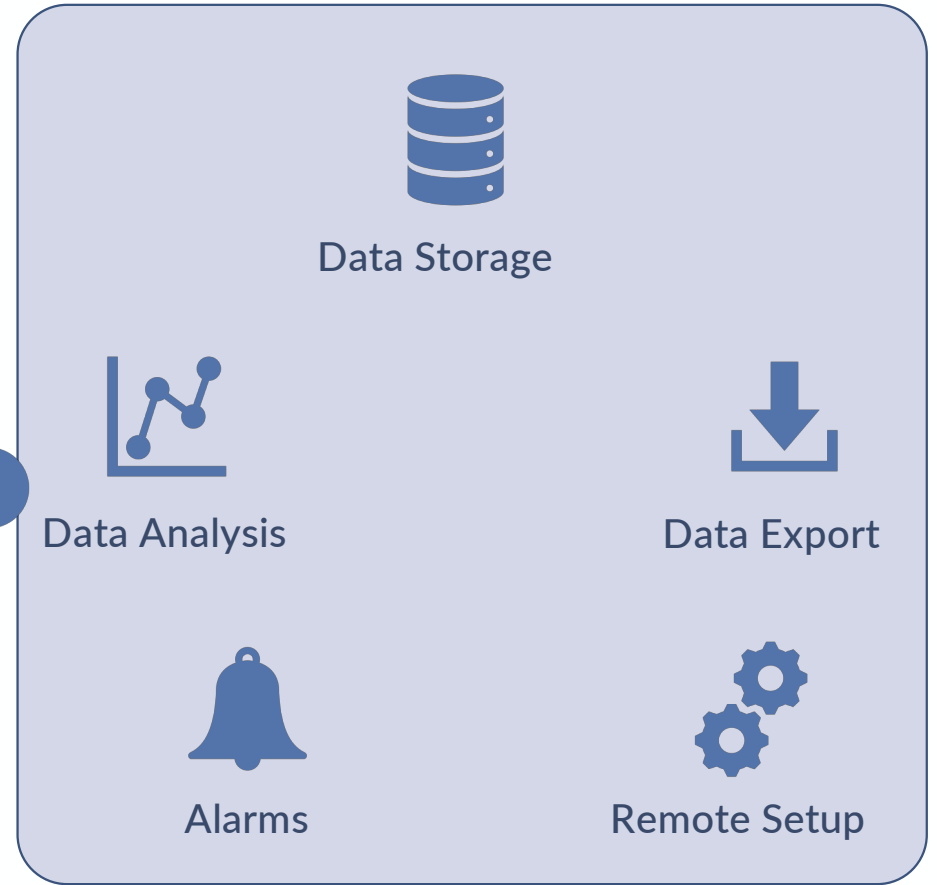
Nikša Orlić



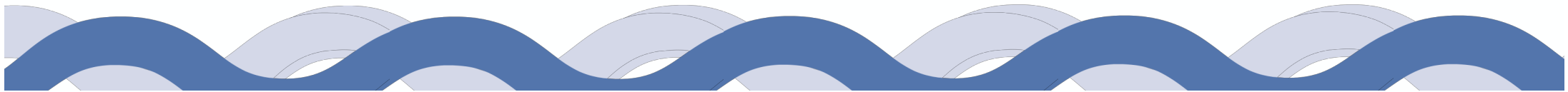
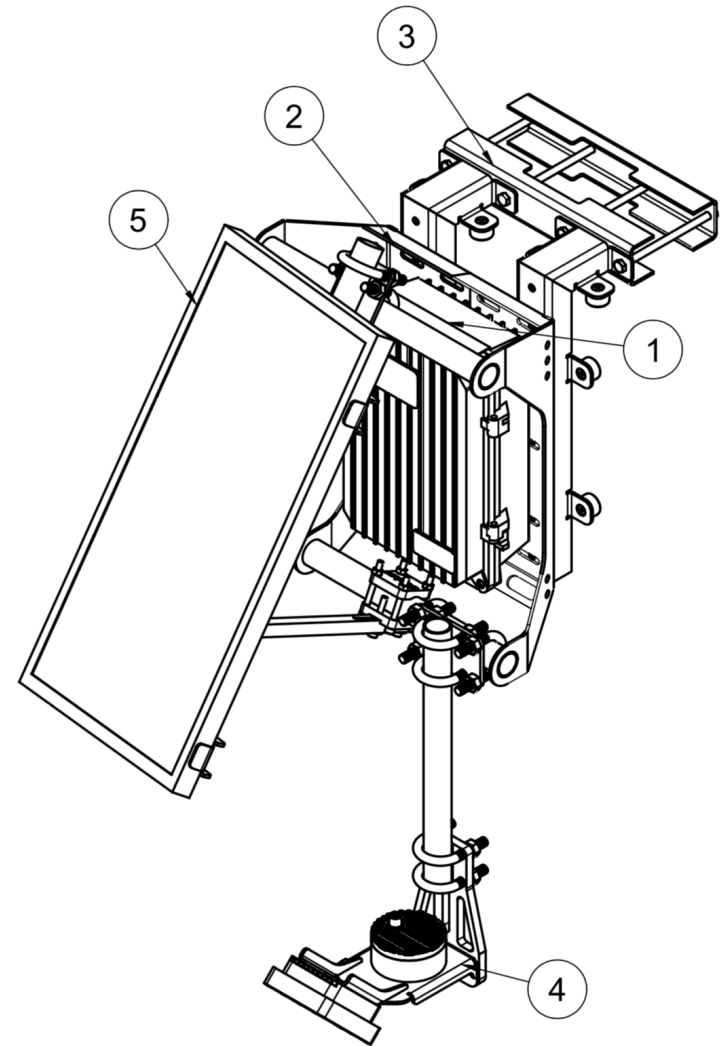
## ON-SITE



## OFF-SITE



# HydroStation



# HydroStation



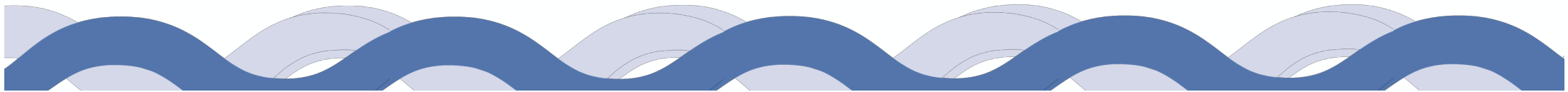
## Sensors

- Geolux radar level and surface velocity
- Geolux HydroCam
- 3rd party through Modbus, SDI-12 or 4-20 mA



## Communication

- GPRS (2G, 3G)
- LoRaWAN
- Satellite



# HydroStation



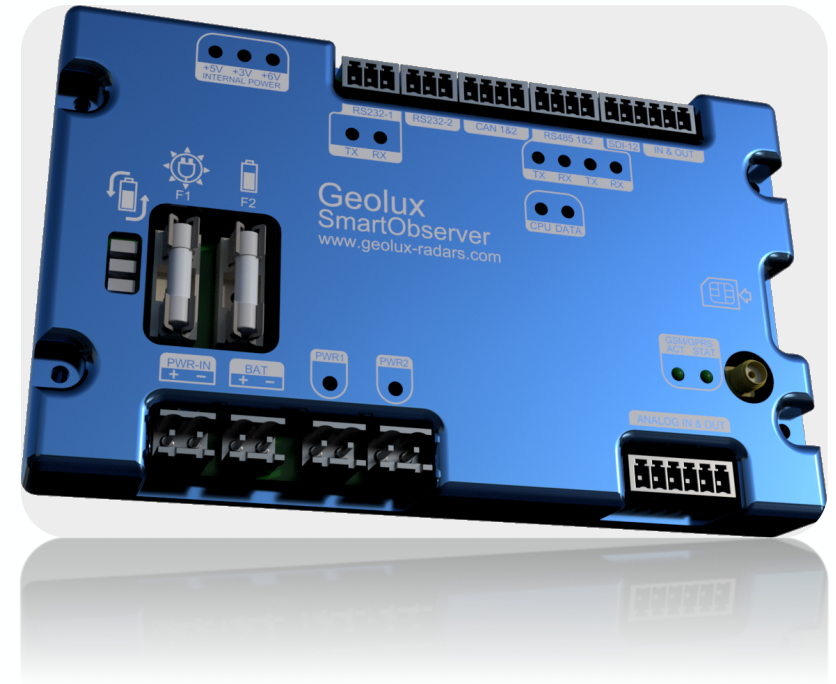
## Local Data Storage

- Store data for later delivery



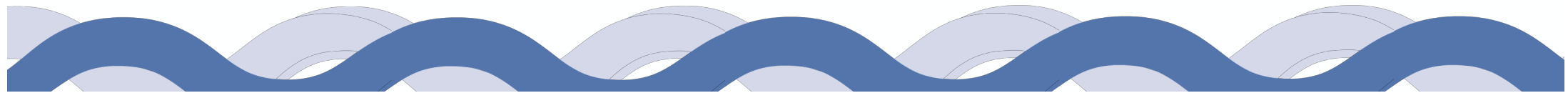
## Power Supply

- Solar panel
- MPPT battery charger
- LiFePO4 (Lithium polymer) battery pack
- diagnostics



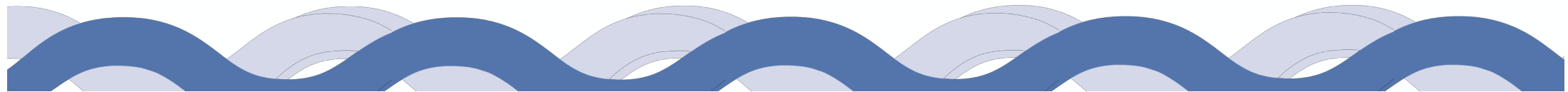
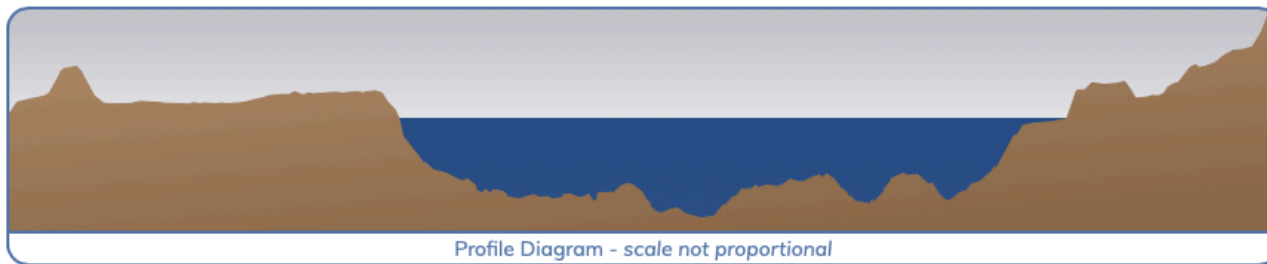
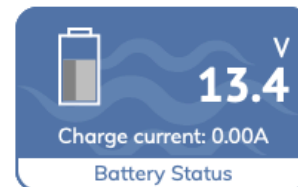
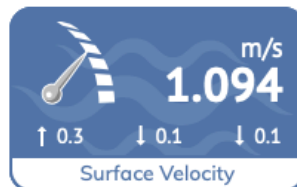
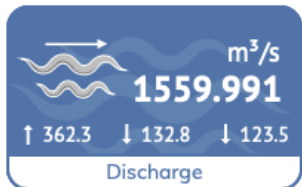


# HydroStation



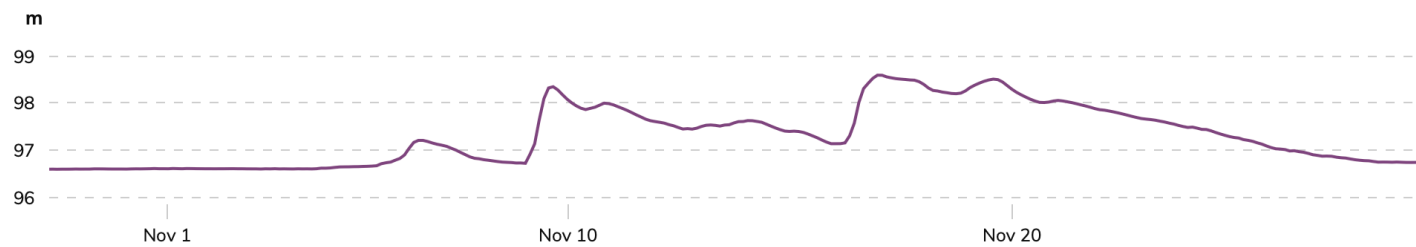
# HydroView

Latest Measurement 7 minutes ago

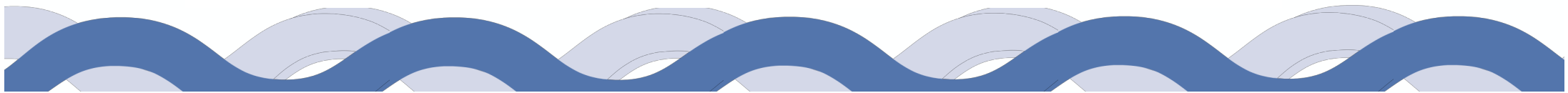
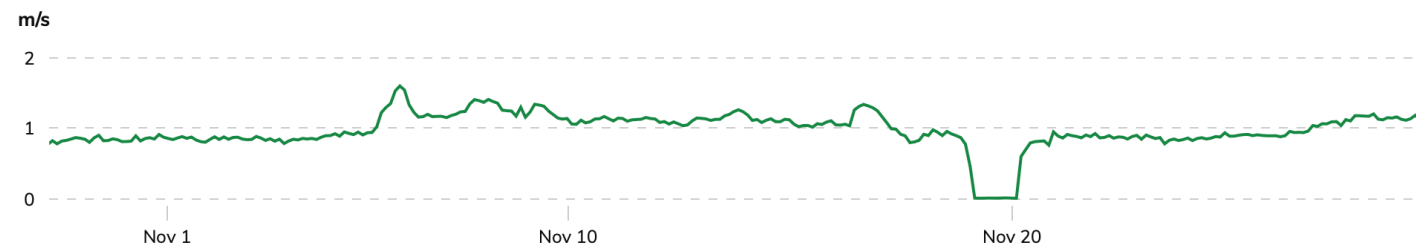


# HydroView

Water Level



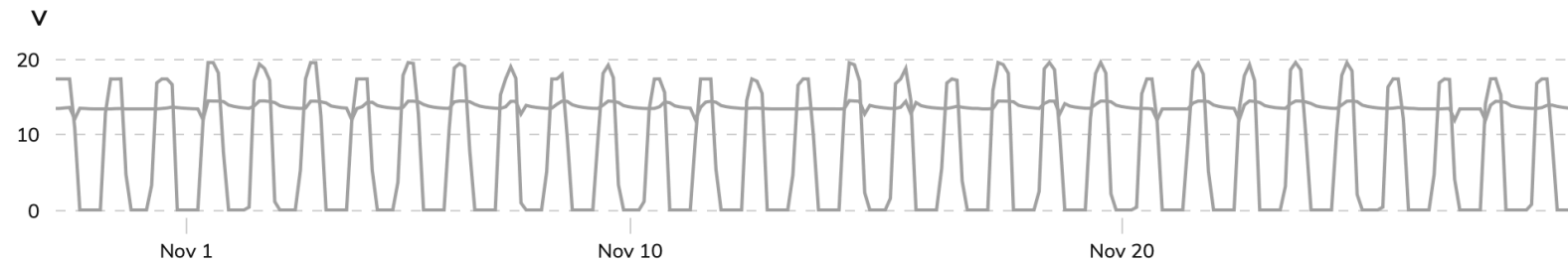
Average Surface Velocity



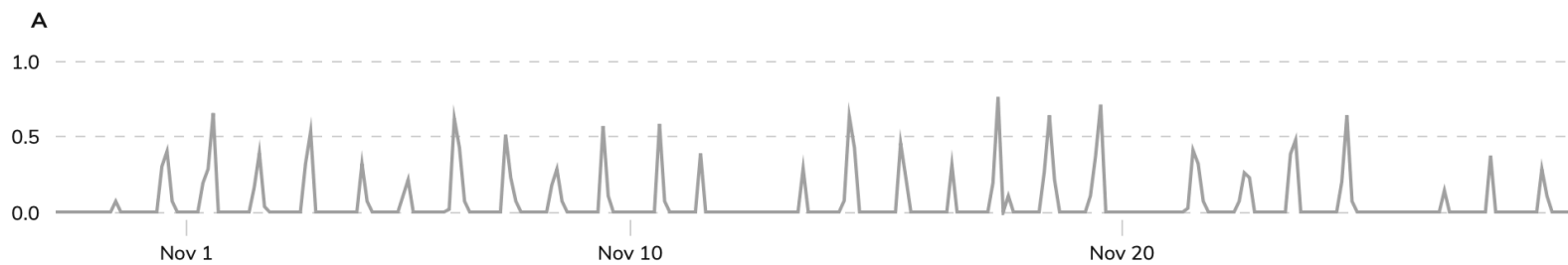


# HydroView

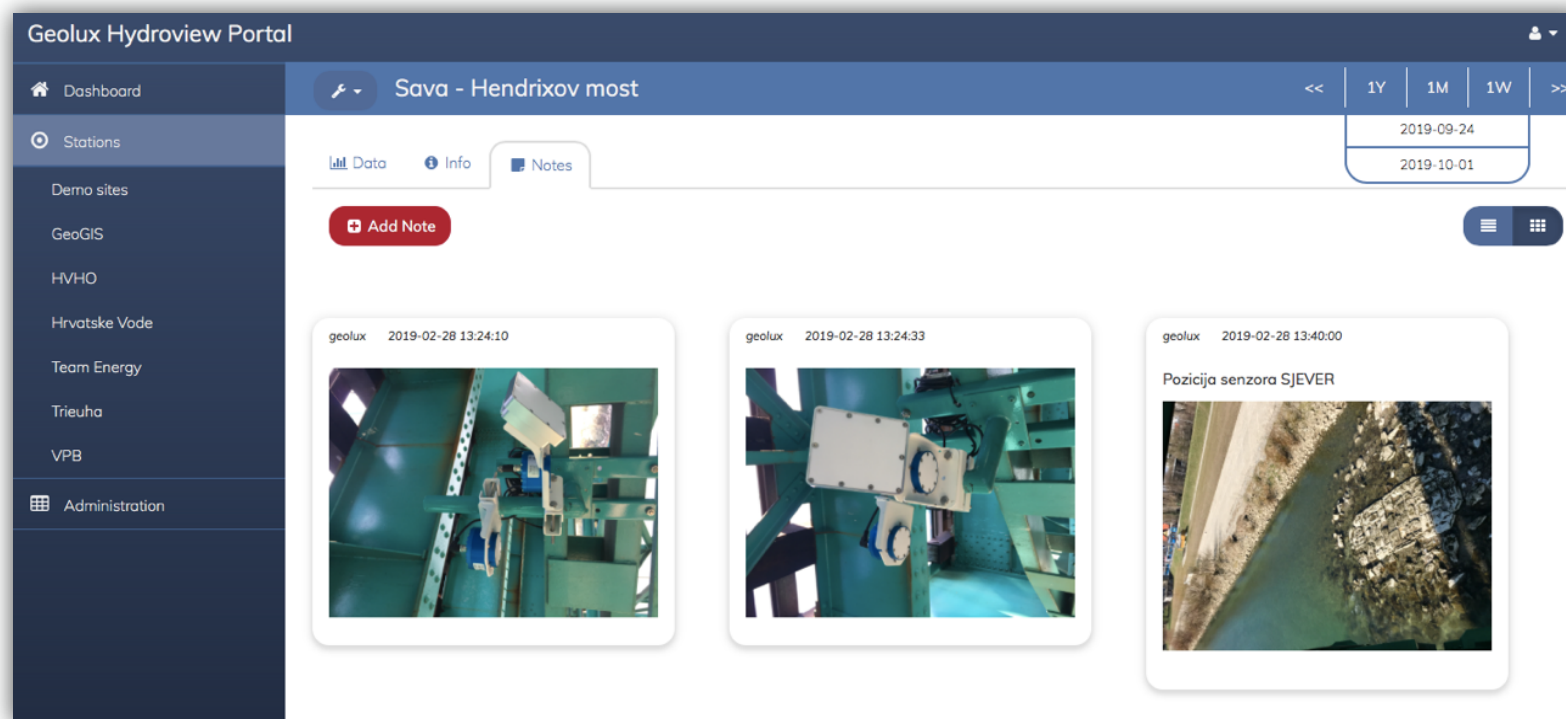
System Voltage



Battery Charge Current



# HydroView



# HydroView

[Station Info](#) [Manage Sensors](#) [Power Management](#) [Discharge Calculation](#)

### Edit Station Info

Station name

Demo site 2

Description

Location

Show map

45.788315

15.969278

Datalogger ID

1234

Scan interval

1 min

Warmup time

20 sec

Lowest voltage

0 V

Close

Remove

Save changes

[Station Info](#) [Manage Sensors](#) [Power Management](#) [Discharge Calculation](#)

### Manage Sensors

Description		Sensor Type	Power Bank	Data Bus
Surface Velocity Radar 1		Geolux RSS-2-300 W	Bank 1	MODBUS line 1
Turbidity sensor		Generic 4-20 mA sensor	Bank 1	Analog 4-20 mA
WL		Geolux RSS-2-300 WL	Bank 1	MODBUS line 1


Add Sensor

Close

Remove

Save changes


# HydroView

 Edit Sensor Data ✕

Description	Surface Velocity Radar 1	
Sensor type	Geolux RSS-2-300 W	⌵
Power bank	Bank 1 - Always activated	⌵
Data bus	MODBUS line 1	⌵
Baud rate	9600	⌵
Device ID	0	

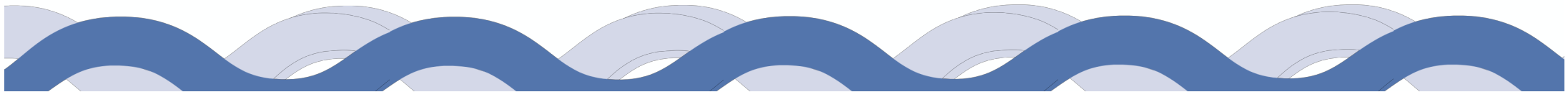
**Data Filters**  
✚ Add Filter

Close Remove Save changes

 Edit Sensor Data ✕

Description	Turbidity sensor	
Sensor type	Generic 4-20 mA sensor	⌵
Power bank	Bank 1 - Always activated	⌵
Data bus	Analog 4-20 mA	⌵
Measurement range	1	5.7
Measurement unit	FMU	

Close Remove Save changes



# HydroView

📍 Station Info

👤 Manage Sensors

🔌 Power Management

📊 Discharge Calculation

🔌 Power Management

Power up sensors attached to Power Bank 2 only under following conditions:

Time interval

00:00

⌚

23:59

⌚

Sensor reading

Level - 1 - Water Level

⬆️

<

⬆️

10

Close

Remove

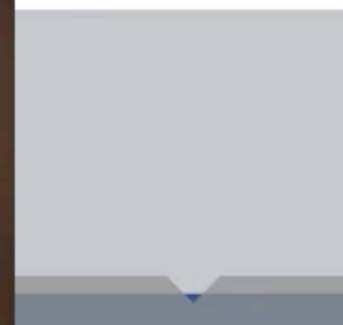
Save changes

A decorative graphic at the bottom of the page consisting of a series of overlapping, wavy blue shapes that resemble water or a stylized horizon line.





 Gzolux



2019 Feb 22 10:00

