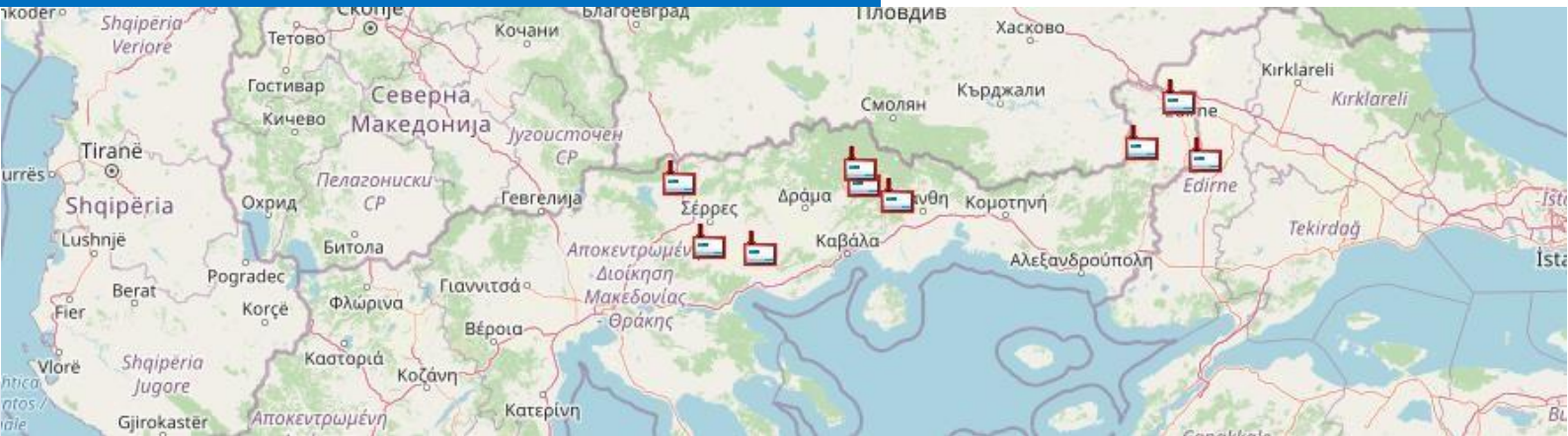


DECENTRALIZED ADMINISTRATION OF MACEDONIA HYDROLOGICAL NETWORK IN THE RIVER BASINS, STRYMONAS – NESTOS – EVROS



BRIEF DESCRIPTION

- Project** : Telemetric Hydrological Network
- Area** : Central, Eastern Macedonia and Thrace
- Date** : January – May 2022

PROJECT'S ADMINISTRATORS

Decentralized Administration of Macedonia - Thrace, Water Directorate

Important !

The most complete network of water level - speed measurement and flow calculation

Important !

Automatic processing of measurements in the cloud

Important !

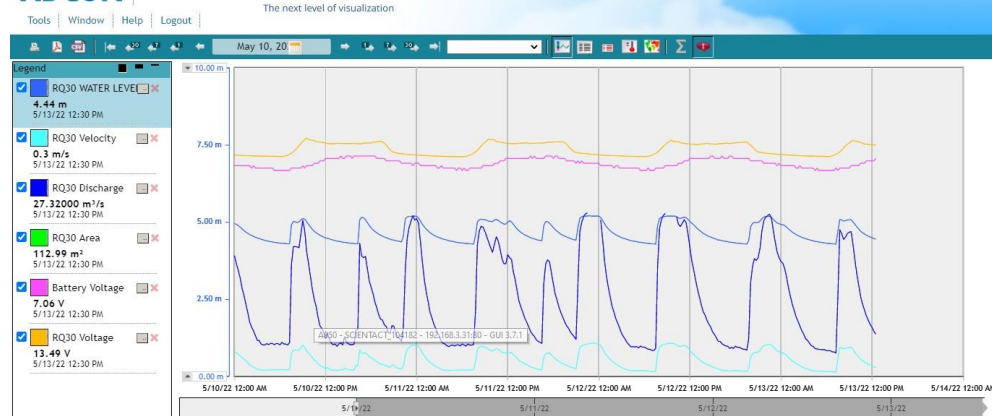
Extremely low maintenance requirement – low operating costs

Project's identity:

Supply and installation of new **telemetric water monitoring stations** in the cross-border basins of the **river Evros** and supply of equipment for the maintenance and upgrade of the existing network of telemetric water monitoring stations in the cross-border catchment areas of the **Nestos and Strymonas rivers** as well as for the provision of integrated **online monitoring system services telemetric water monitoring data** of the transboundary catchments of the rivers **Evros, Nestos and Strymonas**, in the context of the implementation of the Project with the acronym **FLOODGUARD**, financed by the territorial cooperation program **INTERREG V-A Greece - Bulgaria 2014-20**



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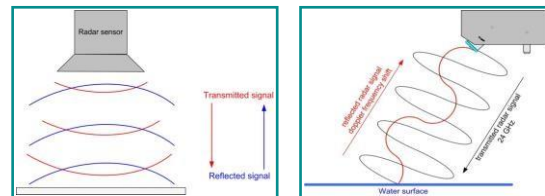


Watershed	Area	Monitoring Parameters		
		Quality	Level	Discharge
Strymonas	Trimerristis	*	*	*
	Aggitis		*	*
	Peponia		*	*
Nestos	Potamoi		*	*
	Platanobrysi	*		
	Stavroupoli		*	*
Evros	Ardas Bridge		*	*
	Erythrotamos		*	*
	Pythio Bridge		*	*



Integrated dual Radar system for the calculation of the Discharge

It does not require maintenance.
It does not require any construction in the water flow.
Operation from a solar collector.
The calculation of the discharge is done internally in the instrument.



Level measurement

Radar measurement.

Measuring range 0 – 15 m.

1 mm resolution.

Accuracy equal to ± 2 mm.

Opening angle 10°

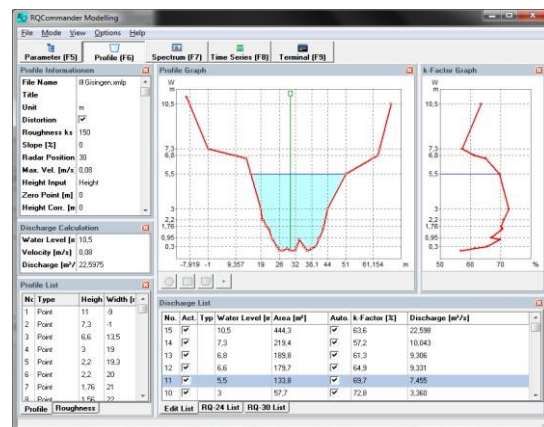
Speed Measurement

Radar measurement.

Range in the range 0.10 – 15 m/sec.

Accuracy equal to ± 0.01 m/s; $\pm 1\%$ FS.

Resolution 1 mm/s.



Measurements provided : 1) Discharge, 2) Level, 3) Speed, 4) Quality parameters.