



IPA Cross-Border PROGRAMME
Greece - Albania
2007-2013

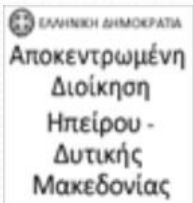
FROM NEIGHBOURHOOD TO PARTNERSHIP



SAIMON

Satellite Near Real Time Monitoring Network for the Eutrophication
Risk for the marine waters over the Greek-Albanian cross border area

In Situ Data Collection

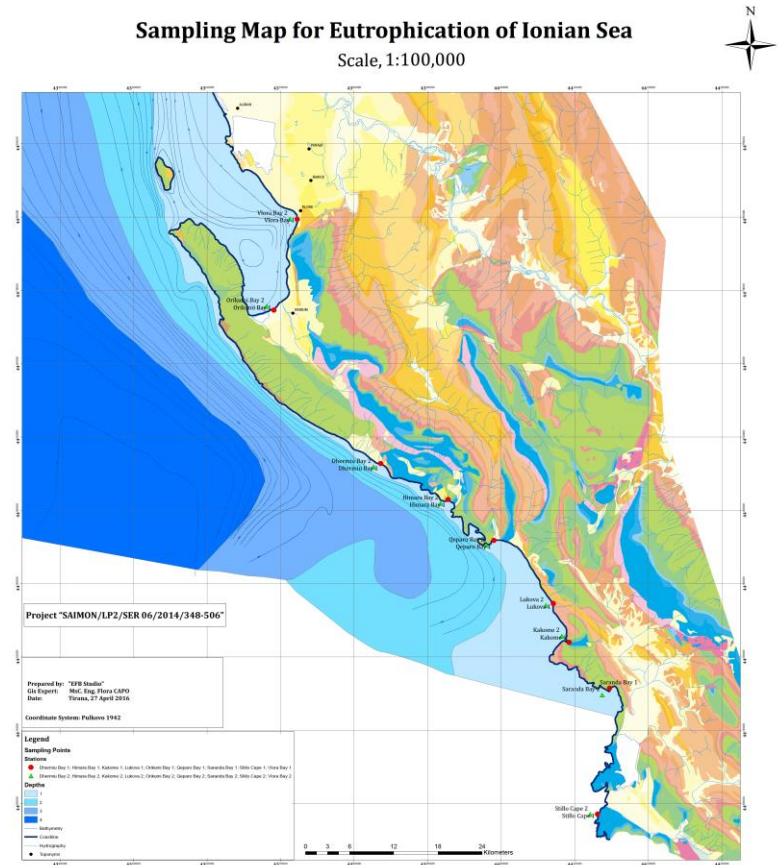


IPA Cross-Border PROGRAMME "Greece - Albania 2007-2013"
is co-funded by the European Union and by National Funds of Greece & Albania



9 sites

- Vlora Bay
- Orikumi bay
- Dhermiu beach
- Himara Beach
- Qeparo beach
- Lukova
- Kakomea
- Saranda
- Stillo Cape



Input

- Bathymetry of the sea for the distance of 1 km from each initial point
- Increase in situ data measurements and indicators (Extra PH; TDS; Nitrogen – NO₂, NO₃, NH₄)
- Increase the series of data provided for a longer period
- Ensure results of analysis done before 2016 in the areas foreseen in the methodology to provide the trend of parameters in years

Output

- Data base creation on satellite imageries and discrete data
- More data will be ensure during the field work
- Statistical model on combined data
- The GIS system will be use for the mapping with sampling points, places and time, elaborated attribute tables.
- Monitoring system for the actual time during the project implementation and after that.

Methodology

Data collection process and selection of the best practices from international experiences.

- 1-Temperature; 2- Water transparency by Secci disc, 3- Chlorophyll-a; 4- pH; 5- TDS; 6-total Nitrogen (NO₂, NO₃, NH₄)
- multi parametric probe of different types as Quanda “D”; Secchi disk, laboratory test;
- 2 seasons (March / July)

Why and where?

- human activities,
- plant covering,
- currents marine and
- distance from each either
- partly open sea and partly closed Sea

At every station are registered the coordinates, climatic conditions, the physical-chemical values, also biological parameters on two depths: 25cm under the water level and 5m under the water level.

No.	Sampling sites	Indicators			
		Temperatue (C°)	Chlorophyll - a (µg/l)	Salinity(‰)	Depth (m)
1	Vlorë 1	16.6	1.13	35	1
1	Vlorë 2	15.4	0.44	39	1
2	Orikum 1	14.9	0.19	39	1
2	Orikum 2	14.3	0.21	39	1
3	Dhërmi1	15.6	0.16	40	1
3	Dhërmi2	15.6	0.16	40	1
4	Himarë 1	16.3	0.16	39	1
4	Himarë 2	16.1	0.17	39	1
5	Qeparo 1	16.0	0.43	40	1
5	Qeparo 2	15.5	0.43	40	1
6	Lukovë 1	15.9	0.1	39	1
6	Lukovë 2	15.7	0.13	40	1
7	Kakome 1	16.1	0.14	40	1
7	Kakome 2	15.6	0.11	40	1
8	Sarande 1	16.2	0.16	39	1
8	Sarande 2	15.9	0.17	39	1
9	Stillo Cape 1	15.7	0.13	40	1
9	Stillo Cape 2	15.6	0.14	40	1

E.x Sampling- Saranda in depth, 1km

No	Parameter	Methods of determination	Result
1.	pH	ISO 10523 : 2008	8.08 ± 0.024
2.	Conductivity	S SH EN ISO 27888: 1993	54.1 mS/cm
3.	TDS	Mesured by multimeter	> 1500 mg/l
4.	Salinity	Mesured by multimeter	35.5
5.	Phosporous P-PO ₄	S SH EN ISO 6878:2004	0.031 ± 0.01 mg/l
6.	Total Phosporous	S SH EN ISO 6878:2004	0.040 ± 0.021 mg/l

Chlorophyll- a($\mu\text{g/l}$)

