



**Marine observations organized within EU “HORIZON 2020”
Project ‘BRIDGE-BS’, Georgia**

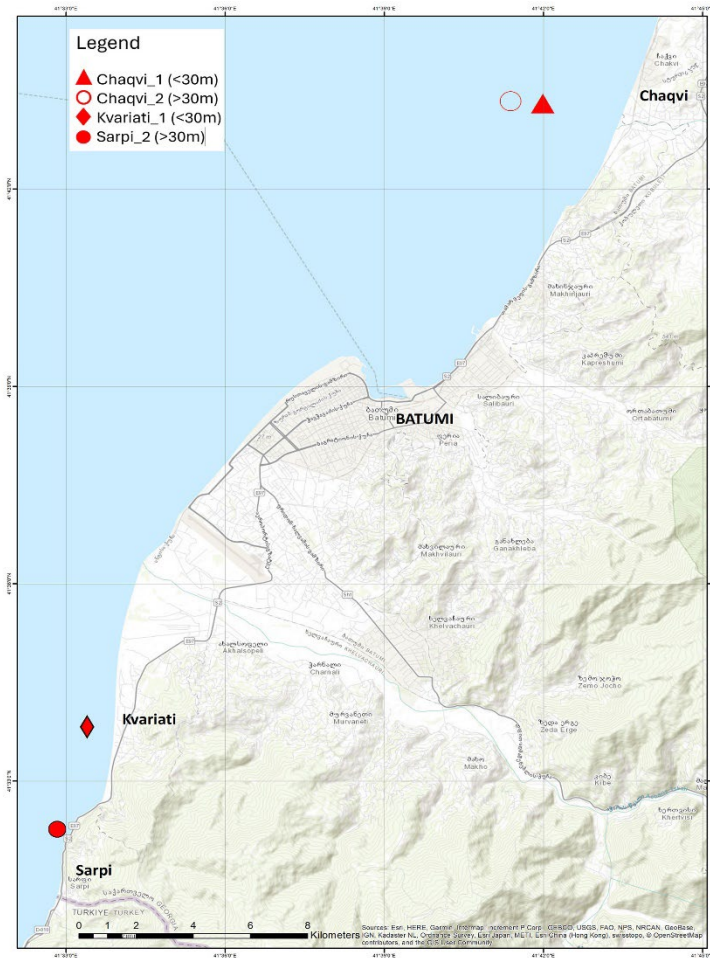
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The overall objective of EU “HORIZON 2020” Project ‘Advancing Black Sea Research and Innovation to Co-Develop Blue Growth within Resilient Ecosystems’ — ‘BRIDGE-BS’ is to advance the Black Sea's marine research and innovation to co-develop Blue Growth pathways under multi stressors for the sustainable utilization of the ecosystem services. The project is based on a novel 3 NODE structure (Service Dynamics, Blue Growth Incubators, and Empowered Citizens). The corresponding activities were planned in the WP5, that is situated within Node 2 – Blue Growth Indicators, but strongly linked to Node 1 of the project. One of the specific objectives of the WP is to execute basin wide process-oriented synoptic R/V expeditions to improve process understanding of stressor and service interactions in relation to physical and biogeochemical redox processes. Following the objective, samplings on the pre-identified pilot sites in the Black Sea, in particular, Pilot site 6, Batumi, Ajara region , Georgia has been organized

Within the BRIDGE WP 5 it has been identified research stations, sampling depths and biological and chemical indicators. Correspondingly, the chemical and biological observations will be conducted at 4 different stations on 2 transect.

#	Station name	Water area	Strata	Depth (m)	Coordinate DD		
					N	E	
1	Kvariati_1	Kvariati	<30	28	41.56358	41.55633	Kvariati_1 (inf-mud)
2	Sarfi_2	Sarfi	>30	54	41.5375	41.54825	Sarfi_2 (circ-mix,54m)
3	Chaqvi_1	Chaqvi	<30	21	41.71992	41.69717	Chaqvi_1 (inf-sand,21m)
4	Chaqvi_2	Chaqvi	>30	36	41.7207	41.69177	Chaqvi_2 (sand,36m)



List of chemical indicators

Temperature

Transparency

pH

TSS

Salinity

Dissolved oxygen DO

Ammonia NH₄-N

Nitrite NO₂-N

Nitrate NO₃-N

Phosphate PO₄-P

TP

TN

Fe

Zn

Cu

Ni

Pb

List of biological indicators

Phytoplankton

Total abundance cells/m³

biomass mg/m³

species composition

Zooplankton

Total abundance cells/m³

biomass mg/m³

species composition

Zoobenthos

Biodiversity

number (ind/m²)

biomass (g/m²)

Marine litter

Riverine litter

Beach litter

Sampling depth

	surface	10m	20m	Upper bottom layer
Maximum depth on station <30m	x	x		x
Maximum depth on station >30m	x	x	x	x

Thank you for attention!