



# Monitoring and Information System for Black Sea

Bulgarian Ports Infrastructure Company

<https://misbs.bgports.bg>



# Bulgarian Ports Infrastructure Company

<http://www.bgports.bg/>



**Bulgarian Ports Infrastructure Company (BPI Co.) manages the port infrastructure of the public transport ports of national importance.**

**Object of activity and status of BPI Co. are regulated by Maritime Spaces, Inland Waterways and Ports of the Republic of Bulgaria.**







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Monitoring and information system for Black Sea (MIS BS) is a collaboration between several institutions working to collect, develop and share knowledge of coastal and marine areas of Black Sea.

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**About BPI Co**  
Bulgarian Ports Infrastructure (BPI Co.) manages the port infrastructure of the public transport ports of national importance. Object of activity and status of BPI Co. are regulated by Maritime Spaces, Inland Waterways and Ports of the Republic of Bulgaria.  
[More Info](#)

**What is MIS for Black Sea**  
Monitoring and information system for Black Sea (MIS BS) is a collaboration between several institutions working to collect, develop and share knowledge of coastal and marine areas of Black Sea.

**Partners**  
Seven organizations stands behind MIS Black Sea. Bulgarian Ports Infrastructure Company is our host on the projects.  
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Seven organizations stands behind MIS Black Sea. Bulgarian Ports Infrastructure Company is our host on the projects.

- **NCA - Norwegian Coastal Administration**
- **EAMA - Executive Agency Maritime Administration**
- **NVNA - Nikola Vaptsarov Naval Academy**
- **CASTRA - Cluster Aerospace Technologies, Research and Applications**
- **SRC SU - Scientific Research Centre at Sofia University "St. Kliment Ohridski"**
- **IO BAS - Institute of Oceanology - Bulgarian Academy of Sciences**
- **NIMH - National Institute of Meteorology and Hydrology**



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**MIS Black Sea includes data for the condition of the specific parameters of the environment, marine spaces and coastal area that have environmental impacts related to the preservation and sustainable development of Black Sea. One of the main objectives is establishment of spatial data infrastructure (SDI) for monitoring in near real time the environment in Black Sea, the regional seas and rivers, and the coastal area for the Bulgarian institutions. The target groups are mainly scientific organizations, universities, government agencies, border authorities and NGO's.**

**There are several main sources for data: the Sentinel Satellite, In situ sensors and Scientific organizations themselves.**

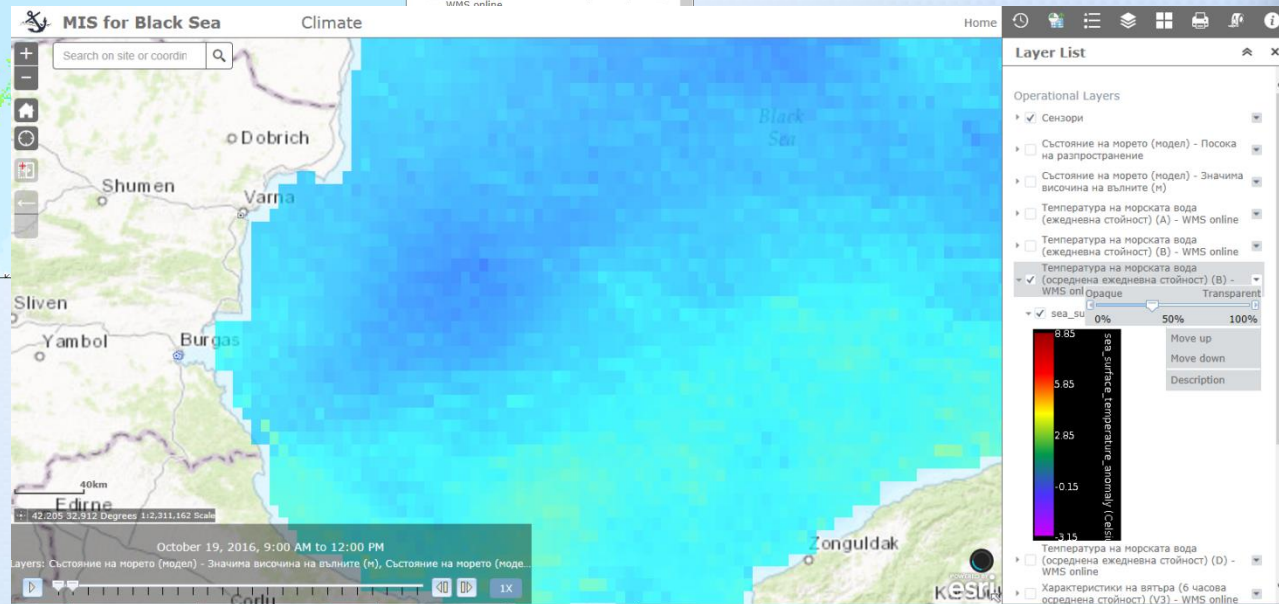
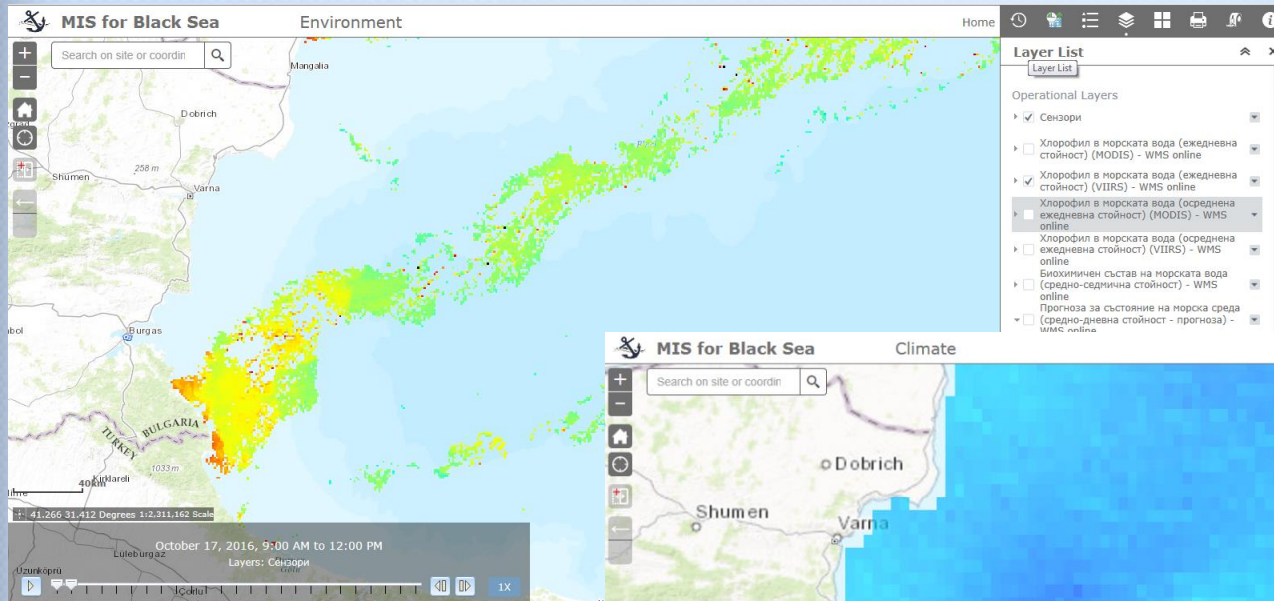




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## Data from the Sentinel Satellite



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Data from In situ sensors

The screenshot displays the MIS for Black Sea web application interface. It features a map of the Black Sea coast with a sensor location marked. Two data tables are shown, one for current and one for wind speed. The interface includes a search bar, navigation controls, and an information panel on the right.

### Скорост и посока на течение - mm/s, °

Дата	Измерена стойност (скорост)	Измерена стойност (посока)
10/19/2016 9:00:00 AM	2.12673	105.776
10/19/2016 9:15:00 AM	2.91097	107.024
10/19/2016 9:30:00 AM	6.88782	107.419
10/19/2016 9:45:00 AM	19.1952	99.5483
10/19/2016 10:00:00 AM	14.2829	100.577
10/19/2016 10:15:00 AM	8.80105	93.8773
10/19/2016 10:30:00 AM	11.8867	80.5132
10/19/2016 10:45:00 AM	6.25166	118.479
10/19/2016 11:00:00 AM	6.76295	102.456
10/19/2016 11:15:00 AM	8.34566	95.1127
10/19/2016 11:30:00 AM	9.38728	99.1227
10/19/2016 11:45:00 AM	3.38169	104.266
10/19/2016 12:00:00 PM	0.718304	94.1989

### Скорост и посока на вятъра - m/s, °

Дата	Измерена стойност (скорост)	Измерена стойност (посока)
10/19/2016 9:00:00 AM	0.27	179
10/19/2016 9:05:00 AM	0.64	206
10/19/2016 9:10:00 AM	0.51	230
10/19/2016 9:15:00 AM	0.44	346
10/19/2016 9:20:00 AM	1.02	217
10/19/2016 9:25:00 AM	1.43	326
10/19/2016 9:30:00 AM	0.57	340
10/19/2016 9:35:00 AM	1.08	271
10/19/2016 9:40:00 AM	0.29	5
10/19/2016 9:45:00 AM	1.18	343
10/19/2016 9:50:00 AM	1.59	185
10/19/2016 9:55:00 AM	1.5	205
10/19/2016 10:00:00 AM	1.69	236
10/19/2016 10:05:00 AM	0.75	197
10/19/2016 10:10:00 AM	0.61	298
10/19/2016 10:15:00 AM	0.54	10
10/19/2016 10:20:00 AM	0.56	343
10/19/2016 10:25:00 AM	0.78	29
10/19/2016 10:30:00 AM	0.25	265
10/19/2016 10:35:00 AM	0.72	19
10/19/2016 10:40:00 AM	0.81	95
10/19/2016 10:45:00 AM	0.71	9
10/19/2016 10:50:00 AM	0.96	281
10/19/2016 10:55:00 AM	0.48	282
10/19/2016 11:00:00 AM	1.42	187
10/19/2016 11:05:00 AM	1.08	197
10/19/2016 11:10:00 AM	1.79	209
10/19/2016 11:15:00 AM	1.67	222
10/19/2016 11:20:00 AM	1.23	223
10/19/2016 11:25:00 AM	2.08	200
10/19/2016 11:30:00 AM	1.3	148
10/19/2016 11:35:00 AM	1.18	163

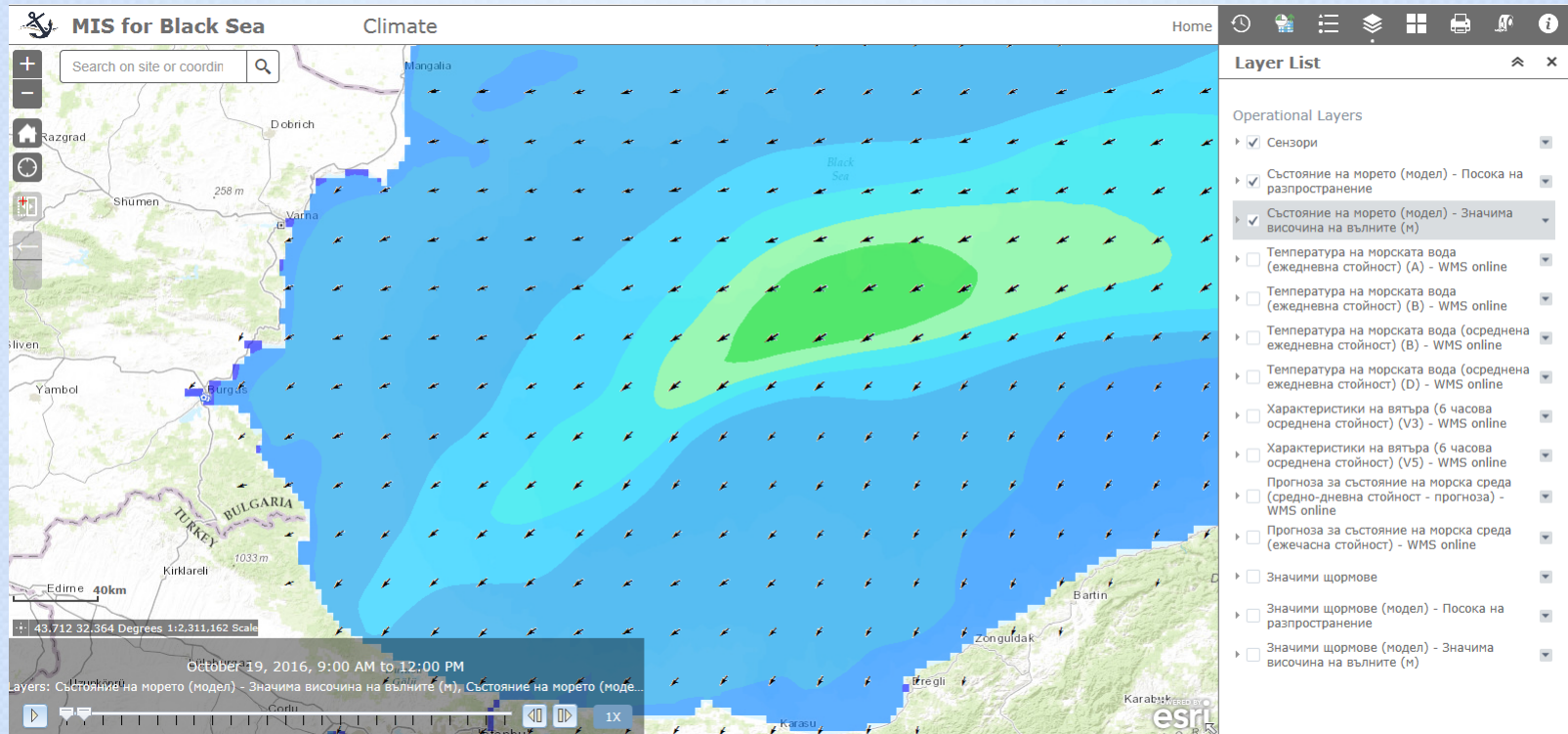




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## Data from National Institute of Meteorology and Hydrology







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**THANK YOU FOR ATTENTION!**

**Kiril Georgiev**

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**“Strategic Development, Ports Services and  
Ecology”**

**Project Manager**

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