

## Coastal Sea Water Situation

In May 2016 a monitoring cruise was carried out to implement European Directive "Marine Strategy", established by agreement between Ministry of the Environment and Protection of Land and Sea (MATTM) and coastal Regions. The survey area is located between coastal zone (monitored in accordance with Directive 2000/60 / EC) and the line of 12 nautical miles (Nm).

The monitoring cruise was performed on May 17 and 18 along two transects (053 – Venice and 072 - Rosolina). The table below shows average surface data of the main parameters measured by multiparameter probe.

Stazione	Chl "a" µg/l	O <sub>2</sub> %	pH	Salinity psu	Temperature °C	Turbidity ftu
50530	2,02	107,01	8,27	33,35	18,78	1,03
60530	0,91	100,55	8,24	33,78	18,30	1,02
70530	0,35	95,89	8,22	35,29	18,30	0,43
50720	6,70	119,88	8,50	21,18	19,11	3,96
60720	3,62	111,64	8,42	27,71	19,05	3,00
70720	0,40	91,29	8,35	35,76	18,06	0,41

The physical-chemical parameters in water are affected by weather and climatic conditions of the period; in particular, at transect 072 (front Rosolina) salinity, turbidity and other parameters have been affected by the substantial contributions of Bacchiglione Brenta and Adige in the days immediately preceding the campaign.

See the agency's website for further information on the tools used during the monitoring process:

[www.arpa.veneto.it/temi-ambientali/acqua/acque-marino-costiere](http://www.arpa.veneto.it/temi-ambientali/acqua/acque-marino-costiere)



## Curiosity

The European Parliament with the Directive 2008/56/EC (Marine Strategy Framework Directive-MSFD) established a framework for Community action in the field of marine environmental policy. This MSFD considers the marine environment like a precious heritage that must be protected, preserved and, where possible, restored with the ultimate aim of maintaining biodiversity and preserving viability of seas and oceans. To reach these aims, MSFD requires Member States to achieve Good Environmental Status (GES) of marine waters in 2020, by implementing an ecosystem approach of marine management.

The Operational Plan of Activities (POA), part of the agreement between MATTM and coastal Regions, identifies a series of activities, differentiated into modules, representative of pressure and hydro-geomorphological characteristics of Italian marine areas.

Based on these criteria, in Veneto the monitoring areas have been identified for the following modules:




- **Module 1:** acquisition of chemical and physical parameters, analysis of contaminants in water and on pelagic habitats in 3 stations located at 3, 6 and 12 Nm along two transects perpendicular to the coastline;

- **Module 2:** analysis of micro-plastics samples, collected with manta trawl, in 3 sub-areas located at 0.5, 1.5 and 6 Nm in the same transects;
- **Module 3:** research of non - native species in two stations next roadsted in front of Venice;
- **Module 4:** census of beached waste in three areas respectively representative of "urbanized area" (Sottomarina), "harbour area" (Cavallino) and "not urbanized area" (Caorle-Brussa);
- **Module 5T:** detection of contaminants in two stations located in areas affected by maritime traffic (roadsted);
- **Module 6F:** measuring the load of nutrients of fluvial origin in three stations located at 1.5 Nm from the mouth of Po di Pila (Porto Tolle, RO);
- **Module 9:** assessment of seabed habitats in different areas subject to physical damage (in 2016 a sea area between Cavallino and Jesolo, approximately 6 Nm from the mouth of Sile).

## Coastal Bathing Water Situation

For the year 2016, in the regional monitoring network for the quality of coastal bathing water, there are 95 control points in the Adriatic Sea and 1 on the stretch of water near Albarella.




Each month from May to September, the following activities are carried out at every checkpoint: measurement of environmental parameters, visual inspections and water sampling for bacteriological analysis. Inspections are carried out by ARPAV's technicians, with the support of the nautical units of the Veneto Region Coast Guard and Harbour Offices. The situation at **May 31** is shown in the adjacent table.

KEY	
	Suitable area
	Temporarily unsuitable area
	Permanently unsuitable area

**Algae Surveillance:** no potentially toxic algal blooms were detected.

For further information, please visit the website at:

[www.arpa.veneto.it/acqua/htm/balneazione.asp](http://www.arpa.veneto.it/acqua/htm/balneazione.asp)

Situation 2016, may 31			
			
<b>Mare Adriatico</b>	<b>95</b>	-	-
S. Michele al Tagliamento (Ve)	6	-	-
Caorle (Ve)	15	-	-
Eraclea (Ve)	2	-	-
Jesolo (Ve)	12	-	-
Cavallino Treporti (Ve)	12	-	-
Venezia	18	-	-
Chioggia (Ve)	11	-	-
Rosolina (Ro)	9	-	-
Porto Viro (Ro)	2	-	-
Porto Tolle (Ro)	8	-	-
<b>Specchio Nautico di Albarella</b>	<b>1</b>	-	-
Rosolina (Ro)	1	-	-