arpav — Agenzia Regionale per la Prevenzione e Protezione Ambientale del Veneto

REGIONE DEL VENETO

Marine-coastal waters monitoring campaign

Monitoring campaign along Veneto coast was carried out on July 3th and 4th, in collaboration with Venice Coastal Guard.

Considerations on the parameters detected

The table below shows the surface data, averaged by water body, of the main parameters measured by multi-parameter probe.
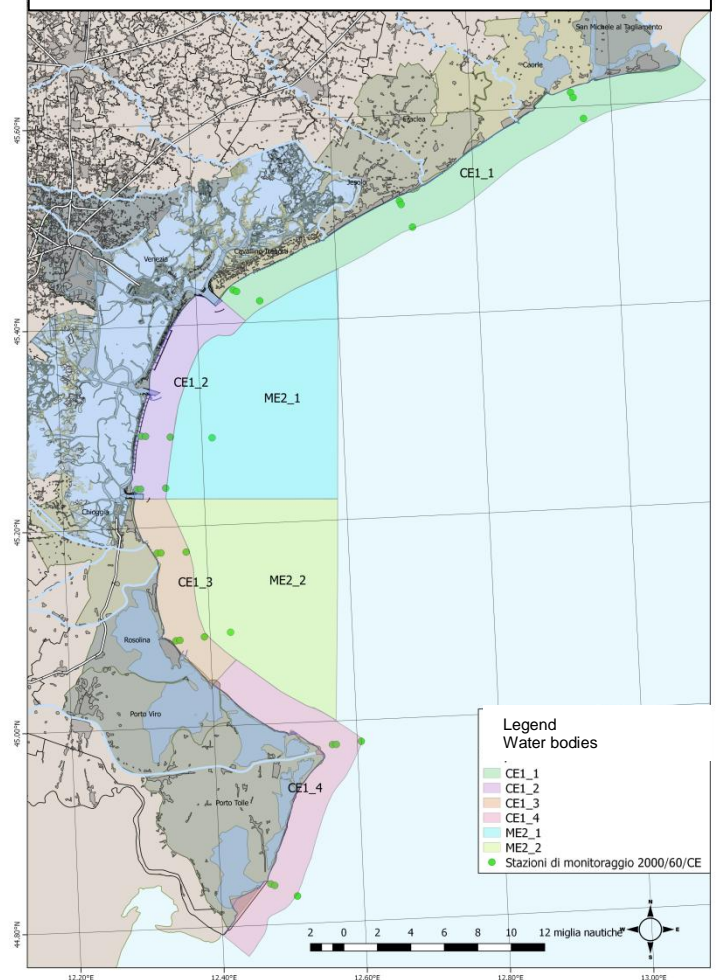
The water surface temperature is higher than almost 2°C in the area south of the Venice lagoon, while the salinity is generally high along the Veneto coast even in areas subject to river supplies. The higher values of dissolved oxygen and chlorophyll "a" are detected from Chioggia to Barricata as a consequence of the phytoplankton proliferation, already reported in the previous month, currently undergoing a partial degradation. The natural transformation of this particulate organic material is evident on the surface with the presence of aggregates accumulating by current.

The values of transparency, detected by Secchi disk, are less than 2 meters in the Po delta area and generally high in the coasts of Cavallino, Jesolo and Caorle.

The observations made with underwater camera have highlighted the presence of flocs, filaments and stringers of mucilaginous material along the water column in the area south of the Venice lagoon, especially at 2 nautical miles from the coast.
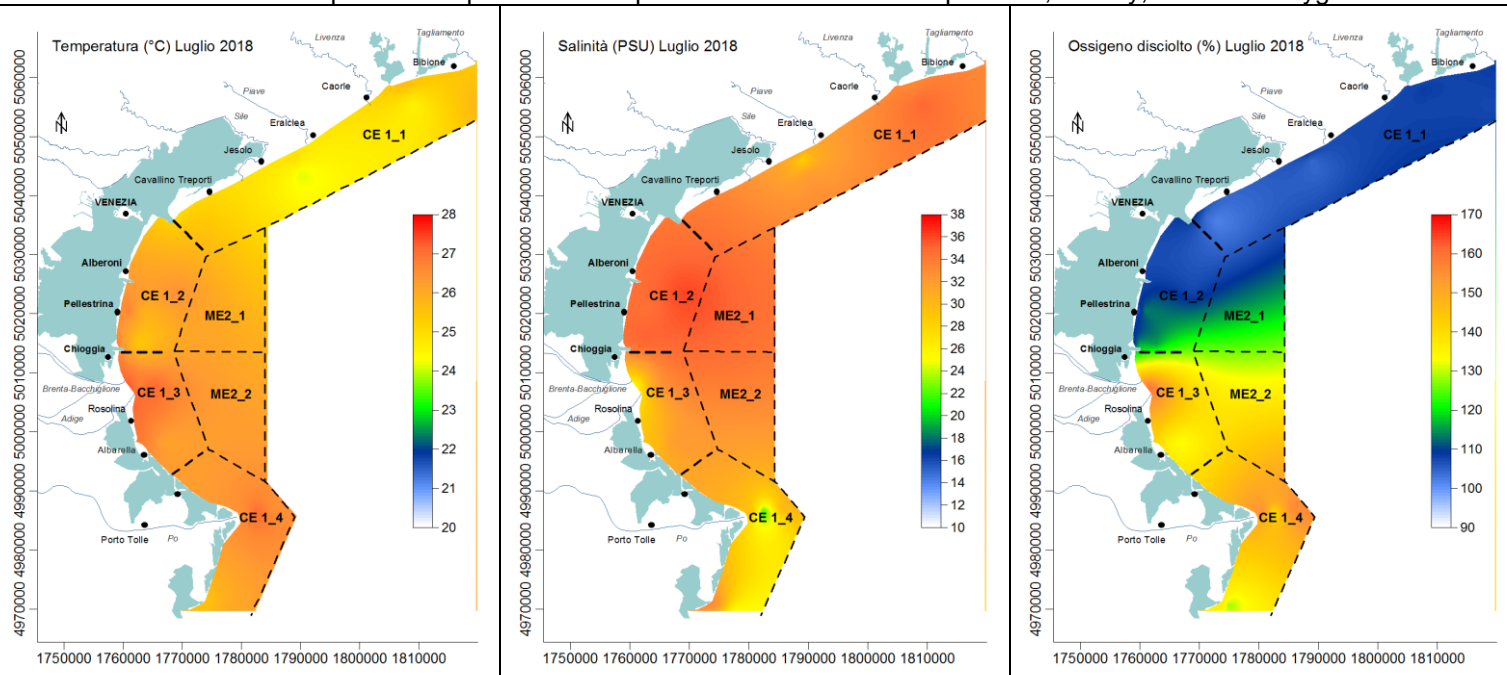
Water bodies and marine-coastal water monitoring network

Parameters	Water Bodies					
	CE1_1	CE1_2	CE1_3	CE1_4	ME2_1	ME2_2
Water temperature °C	25.01	26.23	26.93	26.21	26.53	26.32
Salinity PSU	32.90	34.75	29.19	28.81	35.96	32.35
Dissolved oxygen %	106.27	112.29	147.23	138.93	107.15	138.42
Dissolved oxygen ppm	7.28	7.46	9.98	9.55	7.03	9.30
pH	8.18	8.18	8.33	8.37	8.16	8.38
Chlorophill "a" µg/l	1.40	1.87	6.61	3.66	1.32	2.94
Turbidity FTU	2.44	1.19	2.78	3.78	0.68	1.55

Distribution maps
The maps below represent the superficial distribution of temperature, salinity, dissolved oxygen.

For information about coastal bathing water situation, please visit the website at:
http://www.arpa.veneto.it/temi-ambientali/acqua/datiacqua/balneazione.php