

Marine-coastal waters monitoring campaign

Monitoring campaign along Veneto coast was carried out August 6th, 7th and 8th, 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 weather stability has led to values of surface water temperature that have reached 30 °C.

With regard to dissolved oxygen and chlorophyll "a" higher values are shown to the south of Chioggia as a consequence of the proliferation of phytoplankton also facilitated by nutrient inputs from the rivers that flow into the area.

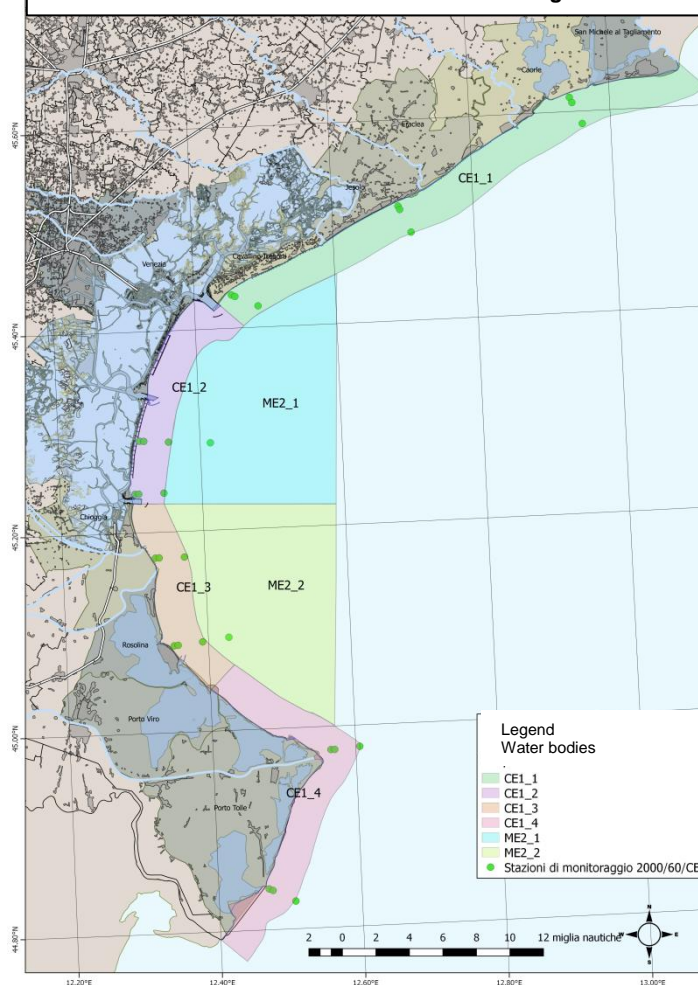
Due to the reduced mixing of water the dissolved oxygen values at the bottom are low in the areas off the south of the Venice Lagoon (50% dissolved oxygen).

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

The observations made with underwater camera still highlighted the presence of micro-flocs and flocs of mucilaginous material along the water column especially in the area south of the Venice lagoon.

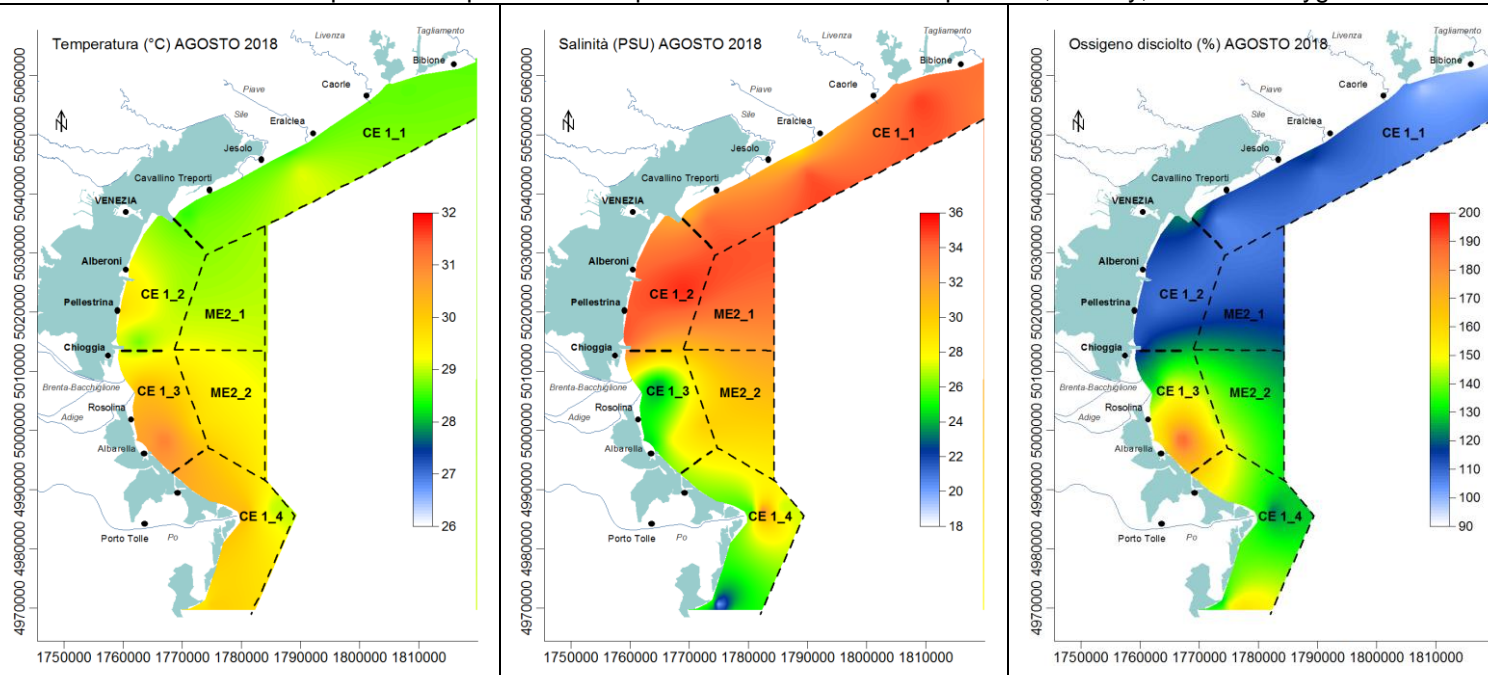
| Parameters | Water Bodies | | | | | |
|----------------------|--------------|--------|--------|--------|--------|--------|
| | CE1_1 | CE1_2 | CE1_3 | CE1_4 | ME2_1 | ME2_2 |
| Water temperature °C | 28.63 | 29.23 | 30.20 | 29.95 | 28.92 | 29.75 |
| Salinity PSU | 32.16 | 33.96 | 24.79 | 25.11 | 35.28 | 29.77 |
| Dissolved oxygen % | 112.07 | 112.20 | 142.16 | 148.21 | 107.60 | 147.21 |
| Dissolved oxygen ppm | 7.27 | 7.13 | 9.35 | 9.76 | 6.82 | 9.49 |
| pH | 8.29 | 8.23 | 8.37 | 8.37 | 8.23 | 8.42 |
| Chlorophyll "a" µg/l | 1.86 | 1.99 | 4.96 | 6.59 | 0.98 | 3.77 |
| Turbidity FTU | 1.73 | 0.98 | 5.39 | 6.03 | 0.62 | 1.85 |

Water bodies and marine-coastal water monitoring network



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>