

## SEA STATE

Wave motion phenomena are assessed in territorial waters (12 km from the coast) facing alert zones B2 and D2.

The indicator used to assess sea state danger is wave height, which is classified according to the Douglas scale used in navigation, as shown in the table below.

*Scala Douglas dello stato del mare*

Degree	Description	Significative wave height
0	Calm (glassy)	-
1	Calm (rippled)	0.00 – 0.10
2	Smooth (wavelets)	0.10 – 0.50
3	Slight	0.50 – 1.25
4	Moderate	1.25 – 2.50
5	Rough	2.50 – 4.00
6	Very Rough	4.00 – 6.00
7	High	6.00 – 9.00
8	Very high	9.00 – 14.00
9	Stormy	> 14.00

The color code assessment during the forecasting phase is divided into four levels from green to red, and is carried out by comparing the predicted wave height with increasing threshold values, which have been associated with event scenarios and possible effects and damage to human activities at sea (bathing and navigation), summarized in the following table.

STATO DEL MARE			
COLOUR CODE	THRESHOLD (h wave m)	EVENT SCENARIO	POSSIBLE EFFECTS AND DAMAGE
VERDE	< 2,5 m	From calm to moderate sea	Localised damage that cannot be predicted cannot be ruled out.
GIALLO	> 2,50 m < 3,20 m	Rough sea	- Discomfort or local danger for bathing and recreational activities on the coast and at sea.
ARANCIONE	> 3,20 m < 4 m	Rough sea	- - Danger for bathing, navigation and other activities taking place at sea. - Widespread damage along the coast to boats and temporary structures. - Danger to the safety of people staying on the coast and/or harbour quays, piers and jetties.

STATO DEL MARE			
COLOUR CODE	THRESHOLD (h wave m)	EVENT SCENARIO	POSSIBILE EFFECTS AND DAMAGE
RED	> 4 m	Very rough, high or very high sea	<ul style="list-style-type: none"> <li>- Serious danger for bathing, navigation and activities carried out at sea.</li> <li>- Significant damage along the coast and in ports to boats and temporary structures.</li> <li>- High danger for the safety of people staying on the coast and/or harbour quays, piers and jetties.</li> </ul>