

## The port of Maó viewpoint

### Location



Town: Maó

UTM coordinates (31N ETRS89): X: 609021  
Y: 4416158



### Difficulty and duration



### Access

The viewpoint is on the Passeig Marítim in Maó, above the steps that lead to the Moll de Llevant, very near the sailing club.

### Principal interest

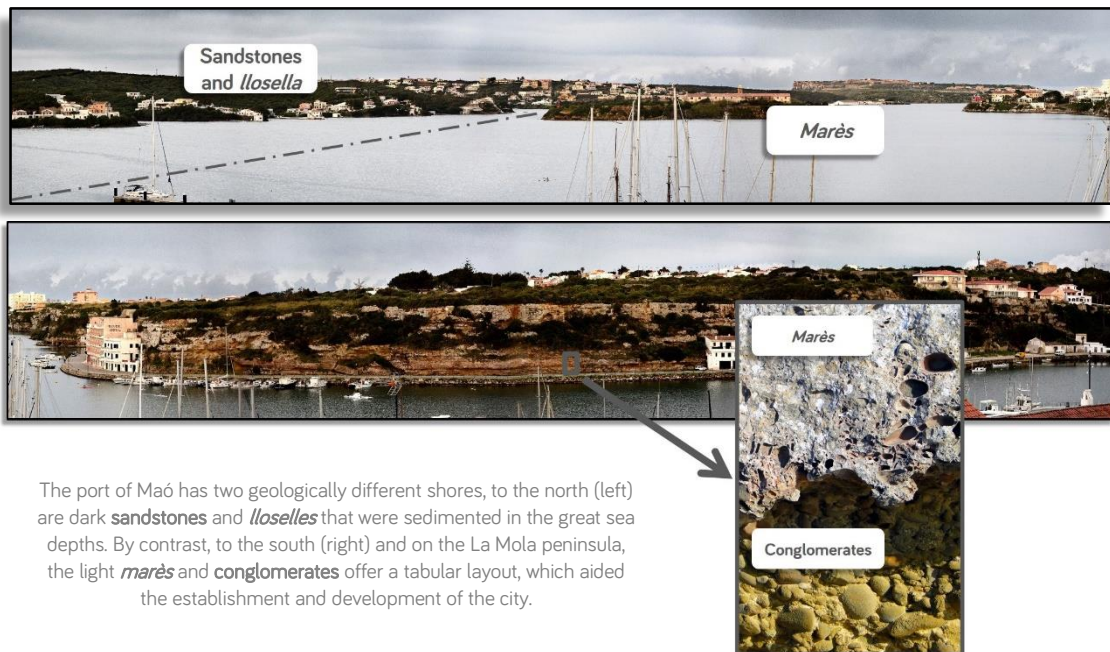
Stratigraphic

### Secondary interest

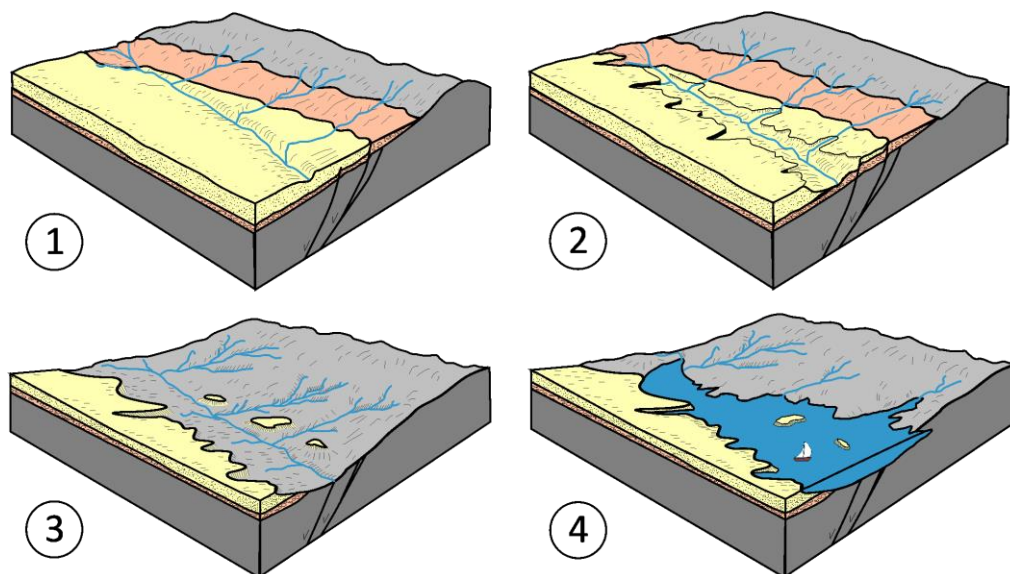
Sedimentological, geomorphological and tectonic

## Description of the site

The port of Maó has two geologically different shores, to the north (left) are dark sandstones and *lloselles* that were sedimented over 300 million years ago and that make up a relief of small hills. These rocks contrast with the horizontally-positioned *marès*, which was sedimented between 10 and 5 million years ago in a clear, warm and shallow sea on the southern shore and the La Mola peninsula. Both types of rock make contact beneath the water, which is a key factor that led to the formation of the port.



As the figure following the text shows, the origins of the port lie in an ancient stream that opened up the way for contact between both types of rocks (1). A severe drop in sea levels caused the slope to rise and gave the stream greater erosive power. The southern side of the stream experienced slippages of large blocks of *marès* which may have led to the creation of coves such as Cala Figuera (2). The valley grew deeper and wider and different rocks led to the formation of abrupt cliffs on the southern side and a softer relief to the north, with small streams flowing between the small hills (3). A rise in sea level stopped the destructive and erosive power of the stream, flooded its valley and consequently created the port of Maó. Only a few small hills that were able to withstand the erosion survived the "flooding": these are the islands in the port (4).



The morphology of the port can be linked to a fluvial valley that was flooded by a rise in sea level.

The cliffs on the southern shore of the port are also made up of conglomerates, rocks formed of rounded cobbles. These cobbles break off easily, which leads to the rock on top, the *marès*, losing its support and consequently caving in. Deterioration of the cliff is part of its life cycle, but it also poses a risk as can be seen from the constant cliff falls recorded throughout recent history.

### To find out more

- LLOMPART, C.; OBRADOR, A.; ROSELL, J., 1979. Geologia de Menorca. *Enciclopèdia de Menorca*. Obra Cultural Balear, T. 1: 1-83.
- OBRADOR, A., 1968. *Interpretación tectónica del puerto de Maó*. Fondo Cultural Caja Pens. Dip. Prov. Barcelona, 303-310.
- OBRADOR, A., 1970. *Estudio estratigráfico y sedimentológico de los materiales miocénicos de la isla de Menorca*. Tesis doctoral. Inèdit. Universitat Barcelona.
- OBRADOR, A.; MERCADAL, B., 1969. Sobre la presencia de depósitos cuaternarios continentales en el puerto de Maó. *Revista de Menorca*, 3: 171-173.
- ROSELL, J.; OBRADOR, A., 1968. Génesis del puerto de Maó. But. *Casa de Menorca*, 6-10.
- ROSELL, J.; OBRADOR, A.; MERCADAL, B., 1976. Las facies conglomeráticas del Mioceno de la isla de Menorca. *Boll. Soc. Hist. Nat. Balears*, 21: 76-93.
- ROSELL, J.; LLOMPART, C., 2002. *El naixement d'una illa. Menorca. Guia de geologia pràctica*. Impressió i relligat Dacs, Indústria Gràfica, SA. Moncada i Reixac. 279 p.

### Recommendations

The viewpoint is easily accessible. If you would like to learn more about the geological nature of the main outcrops in the port, we recommend you take a look at *El naixement d'una illa. Menorca*. [The Birth of an Island] by J. Rosell and C. Llopart (2002 and republished in 2014), which describes in detail the numerous geological sections throughout the port.