Remote sensing methods in studying the characteristics of water exchange through the straits between inland seas and ocean

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Study of processes of water exchange through the straits between the inland seas and ocean is an important task of modern oceanography. Examples of such water exchange can be observed in the Baltic Sea, Mediterranean Sea, Red Sea and others. In the Aral Sea there is a water exchange through the narrow strait - the channel between the eastern and western part of the sea. It is suggested that is very important to use the possibilities of remote sensing methods (acoustic and satellites) to observe the features of water exchange through the straits between inland seas and ocean.

As an example, the results of the study of peculiarities of propagation of Mediterranean waters through the Strait of Gibraltar in the Gulf of Cadiz are presented. The results showed that the propagation of Mediterranean waters (including meddies) can be traced by acoustic and seismoacoustic profiling of the water column and satellites altimetry.