

Fig. 3 Water temperature varies according operative data from Caspian Sea stations

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 RSE "Kazgidromet"

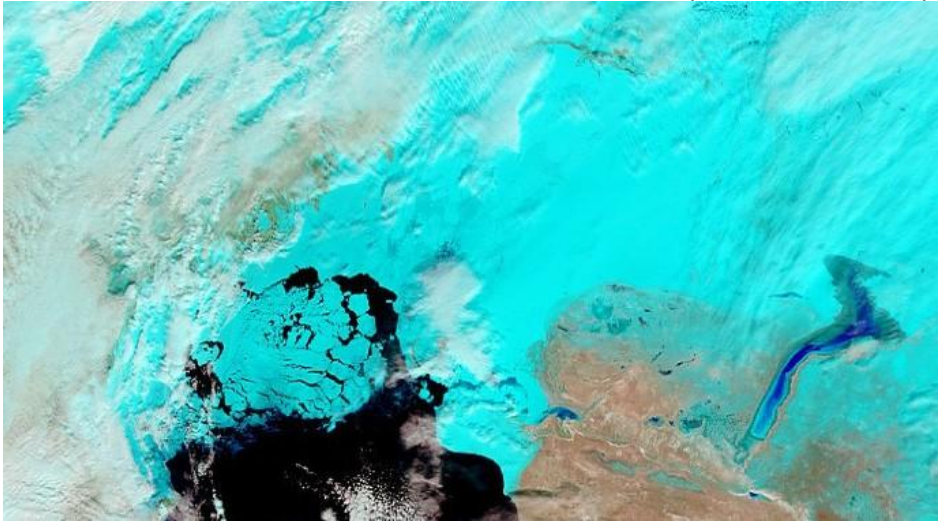


**Ministry of Energy of the Republic of
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*Figure 1. Ice conditions on the Caspian Sea, 14, February, 2017.
Image of the «MODIS Rapid Response Project at NAGA/GSFC»*

Review

Caspian Sea water stage from 09 till 15 February , 2017

The mean sea level was minus 28,05 m on the Caspian Sea shallow part covered by ice. On the Caspian Sea deep-water part the mean sea level was minus 27,97 m, maximum – minus 27,86 m, minimum – minus 28,14 m according to date of stations MG Fort-Shevchenko, Fetisovo, Aktau and Makhachkala. Considerable storm surges were not.

**Caspian Sea level forecast* in the area without ice,
February, 16-21, 2017**

The sea-level fluctuation is expected about minus 27,98 m, with maximum rise up to the minus 27,85 m and minimum fall to minus 28,16 m (figure 2).

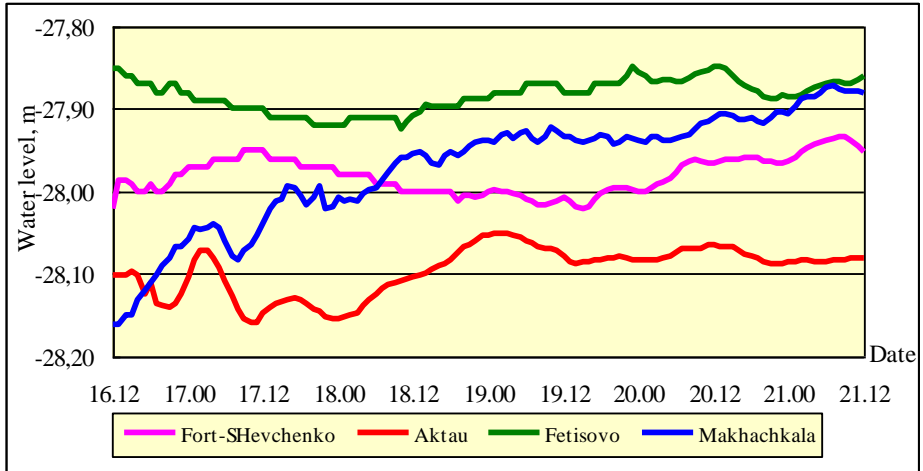


Fig.2. Forecasted sea level varies in the different areas of Caspian Sea

* The characteristics were computed by Hydrodynamic module MIKE 21 of Danish Hydraulic Institute. RSE "KAZHYDROMET" has the module adapted to Caspian Sea conditions. Data of sea level measurements and pressure field numerical forecasting for 24 –120 hours from the European Center Middle Weather forecast, Reading, Great Britain were used in computation. The local conditions were considered when determined specific marks.

Critical – 50% frequency, dangerous – 25% frequency, extremely dangerous – 4% frequency.

**Caspian Sea level forecast in different stations,
February, 16-21, 2017**

Station	Maximum sea level		Minimum sea level		Average value, cm (m abs)
	Value, cm (m abs)	Date, time	Value, cm (m abs)	Date, time	
Fort-Shevchenko	7 (-27,93)	2017/02/21 07:00:00	-2 (-28,02)	2017/02/16 12:00:00	2 (-27,98)
Aktau	-5 (-28,05)	2017/02/18 23:00:00	-16 (-28,16)	2017/02/17 10:00:00	-10 (-28,10)
Fetisovo	15 (-27,85)	2017/02/16 12:00:00	8 (-27,92)	2017/02/17 20:00:00	12 (-27,88)
Makhachkala	13 (-27,87)	2017/02/21 06:00:00	-16 (-28,16)	2017/02/16 12:00:00	3 (-27,97)

**Review of ice conditions in the Caspian Sea,
February, 09-15, 2017**

According to satellite images (fig. 1) and operative data from sea stations and posts shore ice was being observed along north seaside of Caspian Sea. In the area of Peshnoy Station, Zhanbay and Lagan' Posts the quantity of fast ice is 10 balls. In the Fort-Shevchenko Station area ice drift is observed. Closeness of ice is 9 balls.

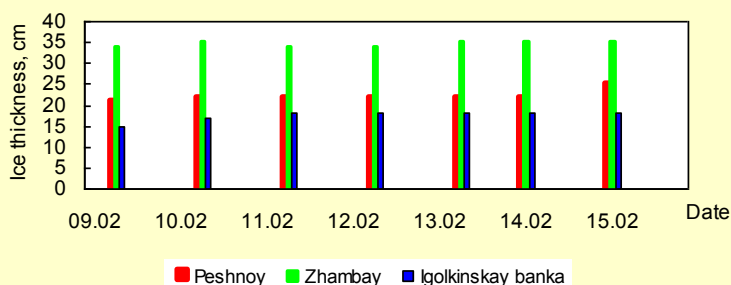


Fig. 3 Thickness of ice in the north seaside of the Caspian Sea