## Monitoring dynamics of the Eastern part of the Big Aral Sea

The satellite images for October 2011 are processed. The water surface area of the gulfs of the Big Aral Sea and the water levels and volumes of the Eastern and Western parts of the Big Aral Sea have been determined (Table).

According the bathymetric chart the estimated areas correspond to the following levels: Eastern Sea:

from March till April 2011 - Water Level  $\approx 28,6$  m; Water Volume  $\approx 6,62$  km<sup>3</sup>

May 2011 - Water Level  $\approx 28,5$  m; Water Volume  $\approx 6,21$  km<sup>3</sup>

June 2011 - Water Level  $\approx 28,2$  m; Water Volume  $\approx 4,7$  km<sup>3</sup>

July 2011 - Water Level  $\approx 27,8$  m; Water Volume  $\approx 3,52$  km<sup>3</sup>

from August till September 2011 - Water Level  $\approx 27,6$  m; Water Volume  $\approx 3,52$  km<sup>3</sup>

from August till September 2011 - Water Level  $\approx$  27,6 m; Water Volume  $\approx$  3 km<sup>3</sup> October 2011 - Water Level  $\approx$  27,4 m; Water Volume  $\approx$  2,5 km<sup>3</sup>

## Western Sea:

March 2011 - Water Level  $\approx$  27,8 m; Water Volume  $\approx$  53,27 km<sup>3</sup> April 2011 - Water Level  $\approx$  27,7 m; Water Volume  $\approx$  52,84 km<sup>3</sup> May 2011 - Water Level  $\approx$  27,8 m; Water Volume  $\approx$  53,27 km<sup>3</sup> June 2011 - Water Level  $\approx$  27,9 m; Water Volume  $\approx$  53,64 km<sup>3</sup> From July till September 2011 - Water Level  $\approx$  27,8 m; Water Volume  $\approx$  53,27 km

From July till September 2011 - Water Level  $\approx$  27,8 m; Water Volume  $\approx$  53,27 km October 2011 - Water Level  $\approx$ 27,7 m; Water Volume  $\approx$  52,89 km<sup>3</sup>

**Table** 

## Assessment of water surface area of the Eastern and Western parts of the Big Aral Sea, km<sup>2</sup>

Water Body	March 2011	April 2011	May 2011	June 2011	July 2011	August 2011	September 2011	October 2011
Western Sea	3934,15	3881,74	3922,68	3977,23	3943,58	3924,89	3938,02	3907,6
Eastern Sea	4583,96	4526,52	4476,27	3702,15	2858,43	2451,28	2267,65	1970,21
Gulfs of the East- ern Sea (Tschebas)	2086,51	1740,01	1188,11	986,60	631,01	576,10	511,43	473,58
Big Aral Sea	10604,62	10148,27	9587,06	8665,98	7433,02	6952,27	6717,1	6356,39