

Monitoring dynamics of the Eastern part of the Big Aral Sea

The satellite images for August 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).

Table

Assessment of water surface area of the Eastern and Western parts of the Big Aral Sea, km²

Water Body	March 2011	April 2011	May 2011	June 2011	July 2011	August 2011
Western Sea	3934,15	3881,74	3922,68	3977,23	3943,58	3924,89
Eastern Sea	4583,96	4526,52	4476,27	3702,15	2858,43	2451,28
Gulfs of the Eastern Sea (Tschebas)	2086,51	1740,01	1188,11	986,60	631,01	576,10
Big Aral Sea	10604,62	10148,27	9587,06	8665,98	7433,02	6952,27

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

- Eastern Sea: March 2011 - Water Level $\approx 28,6$ m; Water Volume $\approx 6,62$ km³
 April 2011 - Water Level $\approx 28,6$ m Water Volume $\approx 6,62$ km³
 May 2011 - Water Level $\approx 28,5$ m; Water Volume $\approx 6,21$ km³
 June 2011 - Water Level $\approx 28,2$ m; Water Volume $\approx 4,7$ km³
 July 2011 - Water Level $\approx 27,8$ m; Water Volume $\approx 3,52$ km³
 August 2011 - Water Level $\approx 27,6$ m; Water Volume ≈ 3 km³

- Western Sea: March 2011 - Water Level $\approx 27,8$ m; Water Volume $\approx 53,27$ km³
 April 2011 - Water Level $\approx 27,7$ m; Water Volume $\approx 52,84$ km³
 May 2011 - Water Level $\approx 27,8$ m; Water Volume $\approx 53,27$ km³
 June 2011 - Water Level $\approx 27,9$ m; Water Volume $\approx 53,64$ km³
 July 2011 - Water Level $\approx 27,8$ m; Water Volume $\approx 53,27$ km³
 August 2011 - Water Level $\approx 27,8$ m; Water Volume $\approx 53,27$ km³