

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

(May 2011)

The satellite images for May 2011 are processed to estimate the water surface area dynamics of the Eastern and Western parts of the Big Aral Sea. Water levels and volumes of the Eastern part of the Big Aral Sea have been defined more accurately (Table. )

**Table**

### Estimation of the 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
Western Sea	3934,15	3881,74	3922,68
Eastern Sea	4583,96	4526,52	4476,27
Gulfs of the Eastern Sea (Tschebas)	2086,51	1740,01	1188,11
<b><i>Big Aral Sea</i></b>	<b><i>10604,62</i></b>	<b><i>10148,27</i></b>	<b><i>9587,06</i></b>

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

- Eastern Sea: March 2011 - Water Level  $\approx 28,4$  m; Water Volume  $\approx 6,62$  km<sup>3</sup>  
 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>
- 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>