

Monitoring of dynamics of the Aral Sea's water surface area

The satellite imagery processing to assess the dynamics of the eastern part of the Big Aral Sea is implemented. Fig. 2 and table show the dynamics of water surface area of the Eastern part of the Big Aral Sea.

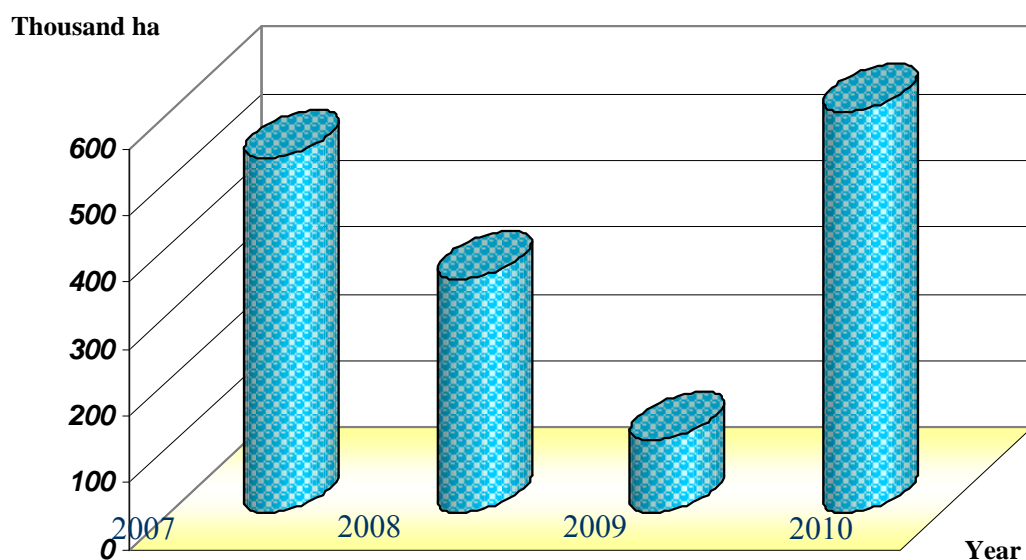


Fig. 1 Dynamics of the Eastern part of the Big Aral Sea (August)

Table 1

Dynamics of the Eastern part of the Big Aral Sea

	Area, ha
2007	
August	530 118,10
2008	
August	350 169,80
2009	
August	116 990,80
2010	
July	478 071,30
August	600 122,20
September	616 705,90
October	625 833,17
November	521 066,90

In the SIC ICWC (Roschenko E.M.) assessment of water-surface area of the Eastern and Western parts of the Big Aral Sea for November of 2009/2010 is implemented.

Table 2

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

Water body	November 2009	November 2010
Eastern sea	796,99	5210,67
Western sea	3789,92	3931,87

The determined areas have the following elevations as provided by the bathymetric chart:

- Eastern sea: November 2009 $\approx 26,3$ m; respective volume $\approx 0,655$ km³
November 2010 ≈ 29 m; respective volume $\approx 8,38$ km³
- Western sea: November 2009 $\approx 27,5$ m; respective volume $\approx 52,12$ km³
November 2010 $\approx 27,8$ m; respective volume $\approx 53,27$ km³

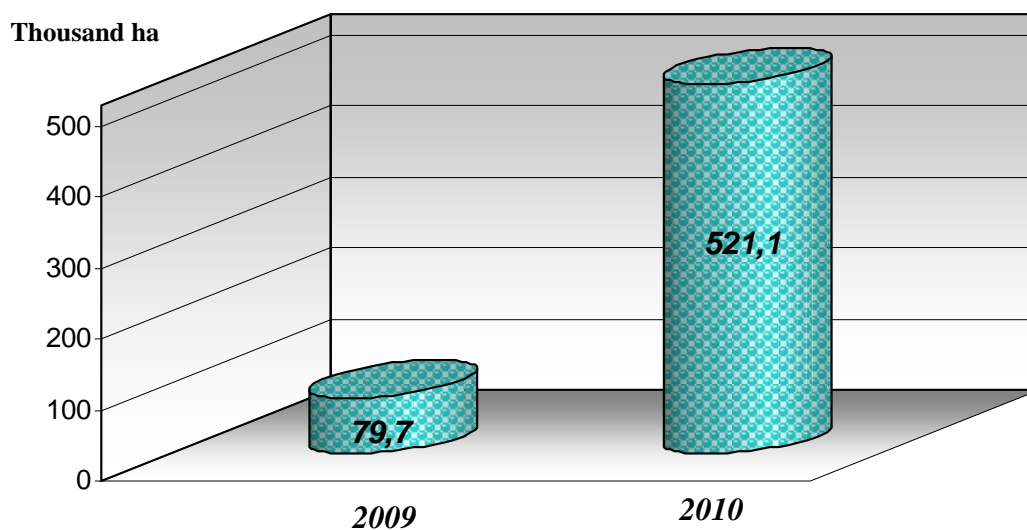
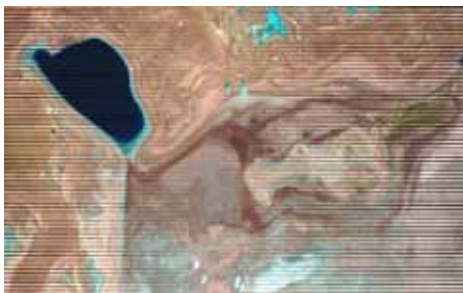


Fig. 2. Dynamics of the Eastern part of the Big Aral Sea - November

Dynamics of the Tschébas gulf's water-surface area is assessed; the Tschébas gulf's water-surface area in 2009 and in 2010 is compared between each other.

November 2009 – 33 821,61 ha



November 2010 – 116 558,50 ha

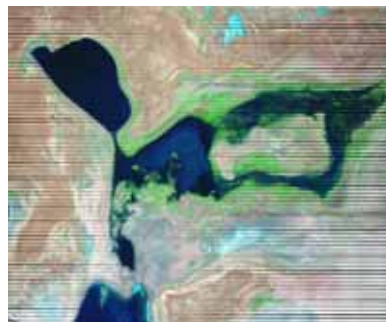


Fig. 2. Comparison of the Tschébas gulf's water-surface area