

Monitoring the wetlands area dynamics in the Southern Priaralie

The wetland areas and opened water surface area in the Southern Priaralie for May 2012 are determined by SIC ICWC (Fig. 1, Tables 1,2).



Fig. 1. Southern Priaralie and Big Aral Sea - May 2011

Table 1

**Opened water surface area, ha
(March, April, May 2012)**

Water Body	March 2012	April 2012	May 2012
Sudochie	14975,3	23067,14	16543,9
Mejdurechenskoe	6546,5	9837,59	11693,9
Rybachie	3489,4	3390,12	4317,4
Muinakskoe	1551,8	3128,61	1273,5
Djyltyrbas bounded by dam	10334,23	11496,17	13471,5
Djyltyrbas (with the former right and left channels)	12269,7	19721,56	15126,3
Dumalak	-	1558,7	-
Makpalkol	696,2	4329,96	3958,4
Mashan-Karadjar	671,5	3197,72	3182,6
Wetland to the south from Muinak	-	284,51	-
Wetlands along the bed of the Kazakhdarya river	-	-	-
Zakirkol lake	-	384,61	157,2
Total	50534,63	68900,52	69724,7

Wetland areas for 2012 in the Southern Priaralie are given in Table 2. Data for April and May 2012 is given in Table 2 because in March 2012 there was no vegetation in growing stage in the Southern Priaralie.

Table 2**Wetland areas, ha (April, May 2012)**

Water body	Wetlands April	Wetlands May
Sudochie	27884,58	35723,4
Mejdurechenskoe	2413,87	8892,2
Rybachie	1347,91	4392,7
Muinakskoe	3589,87	7328,1
Djyltyrbas bounded by dam	27423,56	32758,5
Djyltyrbas (with the former right and left channels)	42581,47	70354,1
Former Adjibay gulf	11351,59	11986,3
Dumalak	1423,54	3681,7
Adjibay 2*)	4225,36	6831,4
Makpalkol	773,41	4026,7
Mashan-Karadjar	2871,43	10082,3
Wetland to the south from Muinak	521,32	625,7
Wetland to the north-west from Muinak	3498,10	3516,7
Wetlands along the bed of the Kazakhdarya river	283,52	854,7
Zakirkol lake	124,17	789,2
Total	102890,1	201843,7

Water surface area of the Eastern and Western parts of the Big Aral Sea was estimated using satellite images:

- Eastern Sea – 2137,4 km²
- Western Sea – 3821,9 km²

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

- Eastern Sea: May 2012 \approx 27,5 m; Volume at the level \approx 2,75 km³
- Western Sea: May 2012 \approx 27,5 m; Volume at the level \approx 52,1 km³