

Monitoring the wetlands area dynamics in the Southern Priaralie

(August 2003 - August 2005)

The wetlands areas (Table 1) and the open water surface areas (Table 2) in the Southern Priaralie for August of 2003, 2004, 2005 were determined in the SIC ICWC by Roschenko E.M.

Table 1

Areas of wetlands in the Amudarya river delta, ha

Water Body	August 2003	August 2004	August 2005
Sudochie	54 768,62	54 141,42	49 635,15
Mejdurechenskoe	31 563,56	30 242,67	38 101,75
Rybachie	9581,76	10 578,35	10 045,81
Muinakskoe	9023,62	9929,2	9477,51
Djyltyrbas bounded by dam	33 899,68	38 647,52	43 025,03
Djyltyrbas (with the former right and left channels)	94 764,63	112 217,3	136 205,7
Former Adjibay gulf	19 093,39	17 329,11	21 037,34
Dumalak	29 572,49	32 557,36	32 424,52
Adjibay 2*)	4030,12	3978,29	3653,11
Makpalkol	5621,53	5931,62	6153,02
Mashan-Karadjar	13 740,79	14769	10 772,5
Wetland to the south from Muinak	4048,18	4655,70	7460,03
Wetland to the north-west from Muinak	-	-	-
Wetlands along the bed of the Kazakhdarya river	8655,78	10 564,11	18 743,74
Zakirkol lake	2924,85	3085,05	3410,45
Total	287 389,32	309 979,72	347 120,66

*)Adjibay 2 – Artificial structure to the north from the Rybachie and Muinakskoe reservoirs.

Table 2

Areas of the open water surface of the Amu Darya river delta, ha

Water Body	August 2003	August 2004	August 2005
Sudochie	24 802,04	15 051,60	17 921,66
Mejdurechenskoe	12 556,24	11 658,46	15 878,53
Rybachie	4993,13	5173,26	5151,65
Muinakskoe	2905,69	2120,86	2115,86
Djyltyrbas bounded by dam	10 260,48	9161,49	12 301,23
Djyltyrbas (with the former right and left channels)	25 422,60	25 888,16	31 861,36
Former Adjibay gulf	-		
Dumalak	6269,65	4396,20	7588,28
Adjibay 2*)	-		
Makpalkol	2156,84	1824,33	2423,77
Mashan-Karadjar	1923,80	1528,87	1463,51
Wetland to the south from Muinak	-	-	1530,79
Wetland to the north-west from Muinak	-		
Wetlands along the bed of the Kazakhdarya river	1510,25	2319,65	7735,50
Zakirkol lake	619,60	734,39	1134,86
Total	83 159,84	70 695,78	94 805,77

The water surface areas of the Small and Big Aral Sea for August 2003-2005 are estimated.

Table 3

Estimation of the water surface area of the Small Aral SEa and the Eastern and Western parts of the Big Aral Sea, km²

Water Body	August 2003	August 2004	August 2005
Small Aral Sea	2847,09	2944,26	2912,73
Western Sea		5140,46	5004,77
Eastern Sea		9826,81	10 104,86
Gulfs of the Eastern Sea (Tschebas)	1685,74	1678,56	1488,90
Big Aral Sea	17 714,17	1645,83	16 598,53

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

Big Aral Sea:	August 2003 $\approx 31,5$ m; Volume at the level $\approx 97,23$ km ³
	August 2004 $\approx 31,2$ m; Volume at the level $\approx 96,82$ km ³
	August 2005 $\approx 31,1$ m; Volume at the level $\approx 95,01$ km ³
Small Aral Sea:	August 2003 $\approx 41,0$ m; Volume at the level $\approx 22,5$ km ³
	August 2004 $\approx 41,4$ m; Volume at the level $\approx 24,44$ km ³
	August 2005 $\approx 41,3$ m; Volume at the level $\approx 23,41$ km ³