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# APPENDIX A

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- Polojärvi P. 1999: Kiljuhanhiretki ydinalueelle 20.5.-2.6.-99. 12 pgs, 2 maps. Kiljuhanhi-Life-Projekti, Metsähallitus, Ylä-Lappi.
- Polojärvi P. 1999: Kiljuhanhiretki ydinalueelle 12.-22.6.-99. 10 pgs, 4 maps. Kiljuhanhi-Life-Projekti, Metsähallitus, Ylä-Lappi.
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# APPENDIX C

## Annotated checklist of bird observations during the Lesser White-fronted Goose surveys in Kazakhstan, October 1999

Toni Eskelin & Petteri Tolvanen

This checklist is a summary of the bird observations made during the two parallel surveys in northern parts of Kazakhstan in October 1999; during the period 1–13 October in the Kustanay area, and 2–13 October in the Kurgaldzhino–Tengiz area. For goose species, see article on pp. 39–46.

### Abbreviations

ind. = individual(s)  
cy = calendar-year  
ad = adult = "  
juv = juvenile = '  
x = 1–9 ind. xx= 10–99 ind.,  
xxx= 100–999 ind. etc.  
+= observed

### Observers

Kustanay region: Toni Eskelin, Sami Timonen, Aki Arkiomaa, Tatyana Bragina and Evgeny Bragin. – Kurgaldzhino–Tengiz region: Petteri Tolvanen, Tomas Aarvak, Ingar Jostein Øien, Götz Eichhorn and Elena Gurtovaya.

### For typical wetland birds

(*Podiceps cristatus* – *Oxyura leucocephala* and *Fulica atra*) see Table 1 and Table 2.

### *Phoenicopterus ruber*

Tengiz: 12 October: 1 ind. with broken leg at Lake Zhumai

### *Haliaeetus albicilla*

Kustanay: 14 ind.  
Tengiz: 27 ind.

### *Circus aeruginosus*

Kustanay: 1–3 October: a maximum of 10 ind. at Lake Kulykol, 6 October: 1 ind. at Lake Batpakkol  
Tengiz: 7 ind.

### *Circus cyaneus*

Kustanay: c. 60 ind.  
Tengiz: c. 100 ind.

### *Circus macrourus*

Kustanay: altogether 18 ind., of which the majority were ad males  
Tengiz: c. 30 ind. of which the majority were ad males

### *Circus macrourus/pygargus*

Kustanay: 1 October: 1 juv at Lake Kulykol  
Tengiz: 4 female/juv. plumage

### *Accipiter nisus*

Kustanay: 6 ind.  
Tengiz: 8 ind.

### *Accipiter gentilis*

Tengiz: 3 ind.

### *Buteo rufinus*

Kustanay: 3 October: 1 ind. between lakes Kulykol – Ayke, 10 October: 1 ind. at Lake Tyuntyugur  
Tengiz: c. 150 ind.

### *Buteo buteo*

Tengiz: 1 ind. of race *vulpinus*

### *Buteo lagopus*

Kustanay: 4 October: 1 ind. at Lake Ayke, 11 October: 3 ind. at Lake Tyuntyugur and 12 October: 5 ind at Lake Bozshakol  
Tengiz: c. 10 ind.

### *Aquila heliaca*

Kustanay: 6 October: 1 3cy+ at Lake Batpakkol, 7 October: 6 ad at Naurzum and 9 October: 1 2cy at Lake Kushmurun  
Tengiz: 1 1cy near Karazhar, 9 October

### *Aquila nipalensis*

Tengiz: >40 ind.

### *Aquila chrysaetos*

Kustanay: 4 October: 1 2cy at Lake Ayke and 9 October: 1 2cy at Lake Kushmurun

### *Falco tinnunculus*

Kustanay: 3 October: 1 ind. at Lake Kulykol, 4 October: 1 ind. at Lake Ayke and 7 October: 2 ind. at Naurzum forest  
Tengiz: some tens

### *Falco columbarius*

Kustanay: 19 ind.  
Tengiz: c. 30 ind., mostly of race *pallidus*

### *Falco peregrinus*

Kustanay: 1 juv at Lake Kulykol, 1 October  
Tengiz: 1 1cy in Karazhar, 5 October

### *Falco subbuteo*

Tengiz: 3 ind.

### *Tetrao tetrix*

Kustanay: 7 October: c. 85 ind. at Naurzum forest

### *Perdix perdix*

Kustanay: 7 October: 6 ind. at Naurzum forest and 9 October: c. 10 individuals by the roadside near Lake Koybagar  
Tengiz: 3 ind.

### *Coturnix coturnix*

Kustanay: c. 15 ind.  
Tengiz: 2 ind.

### *Grus grus*

Kustanay: 1 October: 2 ind. at Lake Kulykol, 4 October 320 migrating ind. in three flocks at Lake Ayke and 6 October: 12 ind. at Lake Batpakkol  
Tengiz: c. 200 ind.

### *Tetrax tetrax*

Kustanay: 7 ind. at Lake Kushmurun, 9 October  
Tengiz: 1 ind. between Kurgaldzhino and Karazhar, 4 October

### *Recurvirostra avosetta*

Tengiz: c. 430 ind.

### *Charadrius hiaticula*

Kustanay: 1–2 October: 3 ind. at Lake Kulykol  
Tengiz: c. 20 ind.

### *Charadrius morinellus*

Tengiz: 1 migrating at Lake Zhylandyshalkar, 3 October

### *Pluvialis apricaria*

Kustanay: 2 October: 1 ind. at Lake Kulykol and 11 October: 3 ind. at Lake Tyuntyugur

### *Pluvialis squatarola*

Kustanay: c. 120 ind.  
Tengiz: c. 750 ind.

### *Pluvialis fulva*

Tengiz: 44 juv. of which 15 at Lake Uyalyshalkar, 3 October

### *Vanellus vanellus*

Kustanay: c. 160 ind.  
Tengiz: >1000 ind.

### *Calidris alba*

Kustanay: 5 ind. at Lake Kulykol, 1–2 October  
Tengiz: 1 juv. at Lake Ashi-Kumkol, 4 October

### *Calidris minuta*

Kustanay: 1–2 October: 40 ind. at Lake Kulykol and 3 October: 10 ind. at Lake Ayke  
Tengiz: c. 250 ind., mostly juv.

### *Calidris alpina*

Kustanay: 1 October: 60 ind. at Lake Kulykol, 3 October: 1 ind. at Lake Ayke and 11 October: 1 ind. at Lake Tyuntyugur  
Tengiz: c. 600 ind.

### *Calidris ferruginea*

Tengiz: 1 juv. at Lake Sholak, 2 October

### *Calidris temminckii*

Tengiz: 3 ind.

### *Undertied small wader sp. (Calidris sp.)*

Kustanay: 100 ind. at Lake Kulykol, 1 October  
Tengiz: some hundreds

### *Philomachus pugnax*

Kustanay: 1–2 October: 20 ind. at Lake Kulykol, 3–4 October: 20 ind. at Lake Ayke and 11 October: 15 ind. at Lake Tyuntyugur  
Tengiz: c. 300 ind.

### *Gallinago gallinago*

Kustanay: c. 10 ind.  
Tengiz: 3 ind.

### *Limosa limosa*

Tengiz: c. 300 ind.

### *Limosa lapponica*

Kustanay: 2 ind. at Lake Tyuntyugur, 11 October  
Tengiz: 6 ind.

# APPENDIX C

Table 1. Numbers of wetland birds (except for geese, for which see article on pp. 39-46) in the Kustanay region.

Lake Species	Kulykol 1 Oct	Kulykol 2 Oct	Ayke 4 Oct	Ayke 5 Oct	Batpakkol 6 Oct	Kulakol 7 Oct	Kushmurun 8-9 Oct	Koybagar 9-10 Oct	Tyuntyugur 10-11 Oct	Bozshakol 12 Oct
<i>Podiceps cristatus</i>	6		5	c.20	c.15			xx	c.250	
<i>Podiceps nigricollis</i>					6					
<i>Podiceps auritus</i>					2					
<i>Podiceps nig/aur</i>				6						
<i>Botaurus stellaris</i>					3					
<i>Egretta alba</i>	c.10	3	2	4				1	c.25	
<i>Ardea cinerea</i>			3		c.10			4	c.15	
<i>Phalacrocorax carbo</i>		1			c.20			c.10	12	c.120
<i>Cygnus olor</i>	9	c.10	8		2			xxx		
<i>Cygnus cygnus</i>	c.5		3	6	2	58	c.200		c.260	
<i>Cygnus columbianus</i>	c.20	c.10	1			90			c.10	
<i>Cygnus sp.</i>	c.30	2	c.10	5						
<i>Branta bernicla</i>	1									
<i>Tadorna tadorna</i>	c.15	20	10	4		1				
<i>Tadorna ferruginea</i>	c.400	c.400	c.550	c.1,200		1		x		
<i>Anas penelope</i>	x	xx	xx	x	c.10	c.400	xx	xxx	c.150	
<i>Anas strepera</i>	c.20				1	5		xx	c.10	
<i>Anas crecca</i>	xxx	xxx	xx	xx	c.50			xx	c.150	
<i>Anas platyrhynchos</i>	xxxx	xxxxx	xxx	xxx	c.50	c.150		xxx	c.700	
<i>Anas acuta</i>	xxxx	xxxx(x)	xxx(x)	xxx	c.30	c.40			c.50	
<i>Anas querquedula</i>		10								
<i>Anas clypeata</i>	x(x)	xxx		xx(x)	c.200	c.50		xx	c.30	
<i>Netta rufina</i>		1			7	c.10	c.20	30		
<i>Aythya ferina</i>			c.300	xxx	c.50	c.20	c.20	xxx	c.150	c.100
<i>Aythya fuligula</i>	c.100	xx	c.1,000	xxxx	c.50	c.150		xxxx	c.400	
<i>Aythya marila</i>								3		
<i>Bucephala clangula</i>	c.10	5	5	c.10	c.10	c.20		xxx	c.150	
<i>Mergus albellus</i>			9	20	c.40	c.55	c.20	xx	c.100	
<i>Mergus serrator</i>						1				
<i>Mergus mermerganser</i>							4			
<i>Fulica atra</i>	c.500		c.1,000	c.1,000	c.150			xxxx	xxx	
<b>Waterfowl</b>							c.1,000	>10,000	xxxxx	c.1,000

***Numenius arquata***

Kustanay: 11 October: 1 ind. at Lake Tyuntyugur and on 12 October: 1 ind. at Lake Bozshakol  
Tengiz: 4 ind.

***Tringa erythropus***

Kustanay: 2 October: 1 ind. at Lake Kulykol, 6 October: 3 ind. at Lake Batpakkol and 11 October: 60 ind. at Lake Tyuntyugur  
Tengiz: c. 25 ind.

***Tringa nebularia***

Tengiz: 1 ind.

***Tringa glareola***

Kustanay: 1 October: 1 ind. at Lake Kulykol

***Tringa totanus***

Tengiz: 3 ind.

***Phalaropus lobatus***

Kustanay: 5 October: 1 ind. on a small pond between lakes Ayke and Batpakkol  
Tengiz: 2 juv. at Lake Zhylandyshalkar, 3 October

***Stercorarius parasiticus***

Tengiz: 1 juv. at Karazhar, 2 October; 1 juv. at Karazhar, 9 October

***Larus ichthyæetus***

Kustanay: 1 October: 2 ind. at Lake Kulykol, 6 October: 3 ind. at Lake Batpakkol and 11 October: 3 ind. at Lake Tyuntyugur  
Tengiz: 18 ind.

***Larus ridibundus***

Kustanay & Tengiz: thousands

***Larus genei***

Kustanay: 1 October: 2 ind. at Lake Kulykol and 4 October: 1 ind. at Lake Ayke  
Tengiz: 7 ind.

***Larus canus***

Kustanay & Tengiz: thousands

***Larus cachinnans s.l.***

Kustanay: 1-2 October: 10 ind. at Lake Kulykol, 3-4 October: 5 ind. at Lake Ayke, 6 October: 5 ind. at Lake Batpakkol and 11 October: 20 ind. at Lake Tyuntyugur  
Tengiz: tens (mostly of *barabensis* type, with single ind. of *cachinnans* type)

***Gelochelidon nilotica***

Tengiz: 1 juv. at Lake Zhylandyshalkar, 2 October

***Sterna hirundo***

Tengiz: 2 juv. at Lake Sochinskoye, 7 October

***Chlidonias leucopterus***

Kustanay: 2 October: 1 juv at Lake Kulykol

***Columba livia***

Kustanay & Tengiz: common in cities and villages

***Columba palumbus***

Kustanay: 2 October: 2 ind. at Lake Kulykol, 6 October: 4 ind. at Lake Batpakkol and 10 October: 1 ind. at Lake Koybagar  
Tengiz: 1 ind.

***Columba oenas***

Kustanay & Tengiz: hundreds

***Streptopelia decaocto***

Kustanay: some ind. in villages

***Streptopelia orientalis***

Kustanay: 9 October: 1 ind. at the northern part of Lake Kushmurun

***Streptopelia turtur/orientalis***

Kustanay: 2 October: 1 ind. at Lake Kulykol

***Asio flammeus & Asio sp.***

Tengiz: 11 ind., of which 8 ind. identified as *A. flammeus*

***Dendrocopos major***

Kustanay: 7 October: c. 10 ind. at Naurzum forest  
Tengiz: 1 at Lake Zhylandyshalkar, 3 October

***Melanocorypha leucoptera***

Kustanay: 4 October: 1 ind. at Lake Ayke, 6 October: 1 ind. at Lake Batpakkol and 7 October: 122 ind. in two flocks at Lake Kulakol  
Tengiz: c. 2500 ind.

***Melanocorypha yeltoniensis***

Kustanay: 1-2 October: 100 ind. at Lake Kulykol, 3-5 October: c. 7,000 ind. at Lake Ayke, 6 October: 500 ind. at Lake Batpakkol and 7 October: 12 ind. at Lake Kulakol  
Tengiz: c. 5000 ind.

***Alda arvensis***

Kustanay: Very common in the south, scarcer in the north. Heavy migration was noticed 4-5 October at Lake Ayke when c. 10,000 individuals were moving north.  
Tengiz: some thousands

# APPENDIX C

**Table 2.** Numbers of wetland birds (except for geese, for which see article on pp. 39-46) in the Kurgaldzhino-Tengiz region. Symbols for the lakes: I = Lake Sholak, II = Lake Zhylandyshalkar, III = Lake Uyalysalkar, IV = Lake Zhanybekshalkar, V = Lake Ashi-Kumkol, VI = Lake Kumdykol, VII = Lake Kubikol, VIII = Lake Sochinskoye, IX = Lake Korzhynkol (Baumanskoye), X = Lake Zultankeldi (Karazhar), XI = Lake Saumalkol, XII = Lake Shandykol (near Poltavskoye), XIII = Lake Zharlykol (Burevestnik), XIV = Lake Kumkol, XV = Lake Zhumai, XVI = Lake Sholak.

Place Date	I 2 Oct	II 3 Oct	III 3 Oct	IV 3 Oct	V 4 Oct	VI 4 Oct	VII 6 Oct	VIII 7 Oct	IX 8 Oct	X 9 Oct	XI 9 Oct	XII 10 Oct	XIII 11 Oct	XIV 12 Oct	XV 12 Oct	XVI 13 Oct
<i>Podiceps cristatus</i>	98					>350		79	5	1180	110	+	>200	50		
<i>Podiceps grisegena</i>						1										
<i>Podiceps auritus</i>						3		12		5	2			5		
<i>Phalacrocorax carbo</i>	50	120	15							10		2				20
<i>Cygnus olor</i>	118"65'				3"2'											27"32'
<i>Cygnus cygnus</i>	227"24'	740"40'	955"22'	307"48'		190"20'	2"2'	2"			+			34"23'	34"	
<i>Tadorna tadorna</i>		30				4		1			1		5			22
<i>Tadorna ferruginea</i>	250	20		13	48	9	2430	1800			1450	20			1	25
<i>Anas penelope</i>	+		+	20	50	+	+	+	30	+	100	+	+	150	60	+
<i>Anas strepera</i>	+	30	+	50	10	+	+	+	10				+			+
<i>Anas crecca</i>	+	300	+	100	300	+	+	+	250	+	20	50	+	50		+
<i>Anas platyrhynchos</i>	+	9500	+	2800	7000	+	+	+	300	+	50	>8000	+	450	650	+
<i>Anas acuta</i>	+	500	+	200	4200	+	+	+	350	+	20	7000	+			+
<i>Anas clypeata</i>		650		100		>60	+		50		200				100	
<i>Netta rufina</i>	33			27				+								1
<i>Aythya ferina</i>	20			40		+	+		40		200			50	110	+
<i>Aythya fuligula</i>	>100			20		+			30		150	+		650	90	
<i>Melanitta fusca</i>				1							1					
<i>Bucephala clangula</i>	+			80		500	+	+	80		1500	10		150	190	+
<i>Mergus albellus</i>	370	3		25		33		37	9	4600	10	10	10			50
<i>Mergus merganser</i>	3								1							
<i>Oxyura leucocephala</i>											108					
<i>Fulica atra</i>	960		210	210			1390	495	110		>200			600	100	
<i>Pelecanus crispus</i>		1		33												

***Eremophila alpestris***

Kustanay: c.120 ind.  
Tengiz: 1 ind.

***Hirundo rustica***

Kustanay: 3 ind. at Lake Koybagar, 10 October  
Tengiz: 1 ind. at Karazhar, 8 October

***Anthus trivialis***

Kustanay: 6 October: 1 ind. at Lake Batpakkol  
Tengiz: 2 migrating (identified as *A. trivialis/hodgsoni*)

***Anthus pratensis***

Kustanay: c. 60 ind.  
Tengiz: some tens

***Anthus cervinus***

Kustanay: c. 40 ind.  
Tengiz: c. 15 ind.

***Motacilla flava***

Kustanay: 1 ind. at Lake Kulykol, 1 October  
Tengiz: 4 ind.

***Motacilla alba***

Kustanay: c. 100 ind.  
Tengiz: hundreds

***Erithacus rubecula***

Kustanay: 5 ind.

***Luscinia svecica***

Tengiz: 1 ind. at Karazhar, 2 October

***Phoenicurus phoenicurus***

Kustanay: 1 ind. at Lake Batpakkol, 6 October  
Tengiz: 1 ind. at Lake Zhylandyshalkar, 3 October

***Oenanthe oenanthe***

Kustanay: 6 ind.  
Tengiz: tens

***Saxicola torquata maura/stejnegeri***

Tengiz: 1 ad male at Karazhar, 2 October

***Turdus pilaris***

Kustanay: 11 October: 1 ind. at Lake Tyuntyugur  
Tengiz: some tens

***Turdus philomelos***

Kustanay: c. 25 ind.  
Tengiz: c. 10 ind.

***Turdus viscivorus***

Kustanay: 6 ind.  
Tengiz: c. 15 ind.

***Phylloscopus collybita***

Kustanay: 8 ind.  
Tengiz: c. 30 ind.

***Regulus regulus***

Kustanay: 9 October: 1 ind. at Lake Kushmurun

***Panurus biarmicus***

Kustanay: 2 October: voice of 1 ind. at Lake Kulykol and 10

October: 15 ind. at Lake Koybagar  
Tengiz: >100 ind.

***Parus cyanus***

Kustanay: 7 October: two flocks, altogether 5 ind. at Naurzum forest

***Parus major***

Kustanay: c. 20 ind.  
Tengiz: some tens

***Remiz pendulinus***

Kustanay: 5 ind. at Lake Kulakol, 7 October  
Tengiz: 4 ind.

***Lanius isabellinus***

Kustanay: 1 ind. at the northern part of Lake Kulykol, 2 October

***Lanius excubitor s.l.***

Kustanay: 1 not (sub)specifically identified ind. at Lake Koybagar, 11 October  
Tengiz: 4 ind. not (sub)specifically identified but not *pallidirostris*

***Pica pica***

Kustanay & Tengiz: common in suitable habitat

***Corvus monedula***

Kustanay & Tengiz: common near human settlements

***Corvus frugilegus***

Kustanay & Tengiz: very common

***Corvus corone cornix***

Kustanay & Tengiz: tens-hundreds

***Corvus corax***

Kustanay: 4 October: 1 ind. at Lake Ayke, 6 October: 1 ind. at Lake Batpakkol and 10 October: 1 ind. at Lake Koybagar  
Tengiz: 4 ind.

***Sturnus vulgaris***

Kustanay & Tengiz: thousands

***Passer domesticus***

Kustanay & Tengiz: very common near human settlements

***Passer montanus***

Kustanay & Tengiz: common in suitable habitat

***Fringilla coelebs***

Kustanay: tens  
Tengiz: <100 ind.

***Fringilla montifringilla***

Kustanay & Tengiz: tens

***Carduelis chloris***

Kustanay: 6 October: 1 ind. at Lake Batpakkol

# APPENDIX C

***Carduelis spinus***

Kustanay: 7 October: 15 ind. at Naurzum forest

***Carduelis flavirostris***

Kustanay: 6 October: altogether c. 250 ind. were migrating in small flocks at Lake Batpakkol  
Tengiz: tens

***Carduelis cannabina***

Tengiz: 2 ind.

***Carduelis flammea***

Kustanay: 6 October: 15 ind. at Lake Batpakkol

***Coccothraustes***

***coccothraustes***  
Tengiz: 3 ind.

***Calcarius lapponicus***

Kustanay: c.100 ind.  
Tengiz: c. 20 ind.

***Emberiza citrinella***

Kustanay: c. 90 ind.  
Tengiz: c. 20 identified pure *E.*

*citrinella* + c. 100 unidentified *E.citrinella/leucocephala*

***Emberiza leucocephala***

Tengiz: 8 identified pure *E. leucocephala*, in addition <10 ind. *E.citrinella x leucocephala* hybrids

***Emberiza hortulana***

Kustanay: 4–5 October: 2 ind. were heard at Lake Ayke

***Emberiza rustica/pusilla/aureola***

Kustanay: 6 October: 1 ind. at Lake Batpakkol

***Emberiza schoeniclus***

Kustanay & Tengiz: hundreds

## Errata

In the previous Annual report 1998 (Appendix D: Annotated checklist of bird observations during the Lesser White-fronted Goose expedition to Kustanai Region), the

following lines were dropped out:

***Larus canus***  
thousands

***Larus "heuglini"***  
42 ind.

***Larus cachinnans***  
c. 200 ind.

***Sterna hirundo***

11 October: 2 ind. at Lake Tyuntyugur

***Chlidonias niger***

12 October: 1 ad at Lake Tyuntyugur

***Columba livia***  
common

***Columba oenas***  
c. 900 ind.

***Columba palumbus***  
7 ind.

***Streptopelia decaocto***

5 October: 4 ind. at Kustanay, 10 October: 2 ind. between Docuchayevka and Koybagar

***Streptopelia orientalis***

8 October: 1 juv between Ayke and Batpakkol

***Asio flammeus***

4 ind.

***Alauda arvensis***

thousands

***Eremophila alpestris***

77 ind. of which 74 ind. at Lake Rechnoe

***Melanocorypha yeltoniensis***  
c. 2700, biggest flock 700 ind.

***Melanocorypha leucoptera***  
c. 450 ind.

***Hirundo rustica***

7 October: 1 ind. at Lake Kulykol and 1 ind. at Lake Karakul