SUPPLEMENTS

Bird summer distribution patterns on islands in Onega Bay, White Sea

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Supplement 1

List of species, their presence, and signs of breeding on the islands surveyed in Onega Bay, White Sea, in July 2020 (BR — signs of breeding, NP — Northern Perkhluda, 1L — 1st island of Ludskaya Korga, SP — Southern Perkhluda, 2L — 2nd island of Ludskaya Korga, 3P — 3rd island of Perkhluda archipelago, 4P — 4th island of Perkhluda archipelago, AB — Abakumikha, NV — Island near Island Volch'ya Luda, BZ — Bolshoi Zhuzhmuy, BK — Bolshoi Kainets, KO — Kondostrov, IP — Island near Island Pnovatyy, MK — Malyy Kaynets, KU — Malyy Kuzmin, NU — Island near Island Ugmorin, PN — Pnovatyy, SO — Sobachiy, UG — Ugmorin, KH — Khedostrov, KL — Khlebnaya Luda, ALL — number of all birds of the species).

Species	BR	NP	1L	SP	2L	3P	4P	AB	NV	BZ	BK	KO	IP	MK	KU	NU	PN	SO	UG	KH	KL	ALL
Gavia arctica	br	–	–	–	–	–	–	–	–	R	–	VR	–	–	–	–	–	–	–	–	–	9
Parus montanus		R	–	C	–	–	–	–	–	C	–	C	–	–	C	–	C	C	C	–	–	135
Cygnus olor		–	–	–	–	–	–	–	–	–	–	R	–	–	–	–	–	–	–	–	–	2
Anas crecca		–	–	–	–	–	–	–	–	–	–	–	–	C	–	–	–	C	–	–	–	2
Bucephala clangula	br	R	–	–	–	–	–	C	–	R	–	R	–	–	–	–	R	–	–	–	–	26
Somateria mollissima	br	C	C	C	N	–	N	C	–	N	C	C	N	C	–	C	N	N	N	–	–	680
Mergus merganser	br	–	–	–	–	–	–	–	–	VR	–	–	–	–	–	–	–	–	–	–	–	1
Mergus serrator	br	R	–	–	N	–	–	C	–	–	C	–	–	–	–	–	C	N	–	–	–	94
Haliaeetus albicilla	br	–	–	R	–	–	–	–	–	R	–	VR	–	–	–	–	–	C	–	–	–	6
Pandion haliaetus		–	–	–	–	–	–	–	–	–	–	VR	–	–	–	–	–	–	–	–	–	1
Falco subbuteo	br	–	–	–	C	–	–	–	–	VR	–	R	–	–	R	–	–	–	–	–	–	6

Bonasa bonasia	br	–	–	–	–	–	–	–	–	–	–	R	–	–	–	–	–	–	–	–	–	7
Lyrurus tetrix		–	–	–	–	–	–	–	–	–	–	R	–	–	–	–	–	–	–	–	–	10
Tetrao urogallus	br	–	–	–	–	–	–	–	–	–	–	VR	–	–	–	–	–	–	–	–	–	1
Lagopus lagopus	br	R	–	–	–	–	–	–	–	–	–	R	–	–	–	–	–	–	R	–	–	5
Grus grus		–	–	–	–	–	–	–	–	–	–	R	–	–	–	–	–	–	–	–	–	3
Arenaria interpres	br	–	C	–	–	C	–	–	–	–	–	–	–	–	R	–	–	–	–	–	–	6
Haematopus ostralegus	br	R	C	C	C	N	–	C	–	C	R	C	N	C	C	N	N	C	C	–	C	194
Tringa ochropus	br	–	–	–	–	–	–	–	–	–	–	VR	–	–	–	–	–	–	–	–	–	1
Tringa nebularia		–	–	–	–	–	–	–	–	VR	–	R	–	–	–	–	R	–	–	–	–	16
Actitis hypoleucos	br	R	–	R	–	–	–	R	–	–	–	R	–	–	–	–	–	–	R	–	–	9
Calidris alpina		R	N	R	N	N	H	–	N	–	N	–	–	N	R	N	–	C	–	–	–	332
Scolopax rusticola	br	R	–	–	–	–	–	–	–	–	–	VR	–	–	–	–	–	–	–	–	–	2
Numenius arquata		–	–	–	–	–	–	–	–	–	–	VR	–	–	–	–	–	–	–	–	–	1
Numenius phaeopus		C	C	C	N	–	–	–	–	C	–	C	–	–	C	N	R	C	C	–	R	283
Stercorarius parasiticus	br	R	–	R	–	–	–	R	–	R	R	R	–	–	–	C	–	–	–	–	C	26
Larus canus	br	C	C	R	C	–	C	–	N	C	–	C	N	–	–	C	N	N	R	–	–	326
Larus argentatus	br	R	–	C	–	N	N	R	–	VR	R	R	N	N	R	–	C	C	–	C	N	111
Larus fuscus	br	R	C	–	–	N	N	–	N	VR	–	–	–	N	–	–	–	–	–	–	R	91
Larus marinus	br	–	C	–	–	N	–	–	–	–	C	–	–	C	–	–	–	–	–	–	–	22
Hydrocoloeus minutus		–	–	–	–	–	–	–	–	–	–	–	–	–	R	–	–	–	–	–	–	1

Sterna paradisaea	br	C	–	C	–	–	–	R	–	R	R	R	–	–	N	–	–	–	–	C	–	62
Alle alle		–	–	–	–	–	–	–	–	–	–	VR	–	–	–	–	–	–	–	–	–	1
Alca torda	br	N	–	N	C	N	N	–	H	–	N	–	–	N	–	–	–	–	–	–	N	656
Cepphus grylle	br	R	N	C	–	C	N	C	–	–	R	VR	N	–	–	C	C	N	C	–	C	152
Dendrocopos major	br	–	–	–	–	–	–	R	–	R	–	R	–	–	–	–	–	–	R	C	–	12
Corvus corax	br	–	–	R	–	–	–	–	–	VR	–	VR	–	–	–	–	R	C	–	–	–	10
Corvus cornix	br	–	–	C	C	–	–	–	C	R	–	R	–	–	R	–	R	C	C	–	–	36
Parus major	br	C	–	R	–	–	–	–	–	R	–	R	–	–	–	–	–	–	C	N	–	60
Phylloscopus trochilus	br	R	–	C	N	–	–	–	–	C	–	R	–	–	–	–	R	–	C	–	C	112
Muscicapa striata	br	–	–	–	–	–	–	–	–	–	–	R	–	–	–	–	–	–	–	C	–	8
Oenanthe oenanthe	br	R	–	C	–	C	–	C	–	C	–	R	–	–	–	N	–	C	C	–	–	69
Phalacrocorax carbo	br	–	–	–	–	–	–	–	–	–	–	R	C	H	R	–	–	–	–	–	–	47
Tarsiger cyanurus	br	–	–	–	–	–	–	–	–	VR	–	–	–	–	–	–	–	–	–	–	–	1
Erithacus rubecula	br	R	–	–	–	–	–	–	–	R	–	VR	–	–	–	–	–	–	–	C	–	10
Turdus philomelos	br	R	–	R	–	–	–	–	–	R	–	–	–	–	–	–	–	–	–	–	–	11
Turdus pilaris	br	R	–	R	–	–	–	R	–	C	–	R	–	–	–	–	R	–	C	–	–	38
Turdus merula		–	–	–	–	–	–	–	–	VR	–	–	–	–	–	–	–	–	–	–	–	1
Phylloscopus trochiloides	br	–	–	–	–	–	–	–	–	–	–	VR	–	–	–	–	–	–	–	–	–	69
Phoenicurus phoenicurus		R	–	C	–	–	–	–	–	R	–	R	–	–	C	–	–	–	R	C	C	1
Regulus regulus	br	–	–	–	–	–	–	–	–	R	–	–	–	–	–	–	–	–	–	–	–	5
Acrocephalus dumetorum	br	R	–	R	–	C	–	–	–	R	–	R	–	–	–	–	–	–	–	–	–	15

Sylvia curruca	br	R	–	–	–	–	–	–	–	VR	–	–	–	–	–	–	–	–	–	–	–	2
Motacilla alba	br	C	C	C	–	C	N	C	–	R	–	C	–	–	C	N	R	C	C	C	R	158
Anthus trivialis		–	–	–	–	–	–	–	–	–	–	VR	–	–	–	–	–	–	R	–	–	3
Anthus pratensis	br	R	C	C	C	N	–	C	–	–	R	R	–	–	R	–	–	N	R	–	C	55
Bombycilla garrulus		–	–	–	–	–	–	–	–	–	–	VR	–	–	–	–	–	–	–	–	–	1
Troglodytes troglodytes		R	–	–	–	–	–	–	–	–	–	VR	–	–	–	–	–	–	–	–	–	2
Emberiza citrinella		–	–	–	–	–	–	–	–	R	–	R	–	–	–	–	–	–	–	–	–	5
Fringilla coelebs	br	R	–	R	–	–	–	–	–	R	–	R	–	–	–	–	–	–	C	–	–	31
Acanthis flammea	br	–	–	–	–	–	–	–	–	R	–	–	–	–	–	–	–	–	–	–	–	6
Carduelis carduelis	br	R	–	–	–	–	–	–	–	R	–	R	–	–	–	–	–	–	–	–	C	31
Loxia curvirostra	br	–	–	–	–	–	–	–	–	–	–	R	–	–	C	–	–	–	–	–	–	18
Loxia pytyopsittacus	br	–	–	C	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	10
Pyrrhula pyrrhula		–	–	–	–	–	–	–	–	–	–	R	–	–	–	–	–	–	–	–	–	5

Note: br — signs of breeding were noted for the species during the surveys (nests; broods or juveniles of clearly local provenance; adult birds' anxiety; birds carrying food); H — high abundant species — more than 100 ind. per sq. km; N — numerous — 10 — 99 ind. per sq. km; C — common — 1 — 9 ind. per sq. km; R — rare — 0.1 — 0.9 ind. per sq. km; VR — very rare 0.01 — 0.09 ind. per sq. km (Tsybulin, 2009).