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Results of bird trapping and ringing by the Biological Station "Rybachy" on the Courish Spit in 2013

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In 2013, a grand total of 30,084 birds of 102 species were trapped and ringed by the Biological Station "Rybachy" in the framework of long- and short-term research projects. A total of 1,008 ringed birds of 49 species produced 1,545 recaptures. In 2013, 312 birds of 29 species ringed on the Courish Spit in previous years were retrapped. Between 15.03.2012 and 15.03.2013, 77 birds of 19 species ringed on the Courish Spit were reported as recovered more than 20 km from the ringing site. In 2013, 76 birds of 17 species ringed outside the Courish Spit were controlled. A review of research projects is given, along with main trapping techniques. A complete list of long-distance recoveries is provided.

Key words: bird ringing, retraps, long-distance recoveries, research projects

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This annual report is the 16th one in the series of ringing reports published by the Biological Station "Rybachy" (Bolshakov et al. 1999; 2000; 2002a, b; 2003; 2004; 2005; 2008; 2009a, b, c; 2010; 2011, 2012, 2013) and consists of two parts. The first part contains a short review of research projects, description of trapping techniques used and main ringing results (Table 1), retraps and control captures (Table 2) during the current year. The second part contains a full list of birds ringed by the station and recovered outside the Courish Spit based on the data received from Russian Ringing Centre in Moscow. We also present the data on birds ringed outside the Courish Spit and controlled by us in the current year.

1. Current research projects using bird trapping and ringing

1.1 Long-term monitoring of the timing of spring and autumn migration, breeding, post-breeding and post-fledging dispersal, numbers of breeding and passage bird populations on the Courish Spit of the Baltic Sea (field site “Fringilla”)

This project has been under way without interruption since 1958 at the field site “Fringilla” (55°05'N, 20°44'E). Birds are trapped in specially designed, large permanent traps (the so-called “Rybachy-type” traps), ringed and measured. For a detailed description of the traps see Payevsky (2000). At present a unique data set is available that has made it possible to describe long-term trends in the timing of migration, breeding, post-fledging dispersal, and numbers of local and passage populations for nearly 40 passerines species in the second half of the 20th century and in the first decade of the 21st century. These data have also allowed us to discover the main factors that affect the underlying trends (Chernetsov et al. 2006; Sinelschikova & Sokolov 2004; Sokolov 1999; 2006; Sokolov et al. 1998 a, b; 2000; 2001a, b; 2002a, b; 2003 a, b; 2004; 2008; 2012; Sokolov & Payevsky 1998; Payevsky 2005; 2006 a, b; 2008; 2009; Payevsky et al. 2003; 2005; Sparks et al. 2005). Within the framework of this project two traps were operated at “Fringilla” in 2012: trap 4 (NE orientation of entrance) – from April 3 until September 30, trap 5 (SW orientation of entrance) – from April 3 until October 28. In the spring, summer and during a part of the autumn, the traps allowed us to control movement along the Courish Spit in both directions.

1.2. Long-term dynamics of numbers, energy condition, moult and biometrics of passerines in NE Europe (field site “Rybachy”)

A joint research programme of Max Planck Institute for Ornithology (Germany) and Biological Station “Rybachy” was launched in 1993 at the field site “Rybachy” on Rossitten Cape (55°09'N, 20°51'E). It is an area of heavy concentration of nocturnal passerine migrants at daytime stopovers, both in spring and in autumn. Trapping is done in mist nets, each 7 m long. Trapping, ringing and biometrics followed the guidelines of the MRI and ESF programmes (Berthold et al. 1991; Bairlein et al. 1995).

In 2013, 25 nets placed in 2 lines were open 24 hrs a day from March 27 until November 1 with a standard gap from June 11 until June 30.

1.3. Population structure, philopatry and dispersal of passerines on the Courish Spit

This project was launched in 1973. The data were largely obtained by trapping and ringing juveniles and adults in Rybachy-type traps (field site “Fringilla”) and mist nets (field site “Rybachy”). Additional mist nets were used near water pools at field site “Fringilla” and the surrounding area. Pulli and adults were ringed at nests (incl. nest-boxes) at different sites on the Courish Spit. Adults were trapped at the nest (nest-box) using various techniques, incl. mist nets, walloper (butterfly-type net), semi-automatic traps, etc.

Table 1. Numbers of birds ringed by Biological station “Rybachy” in 2013.

EUR- ING code	Species	Rybachy- type traps (“Fringilla”)	Mist- nets (“Ryba- chy”)	Nests		Other research projects and methods	Total ringed in 2013	Grand total 1956– 2013
				Nest- lings	Adults			
00030	<i>Gavia arctica</i> Black-throated Diver	–	–	–	–	–	–	1
00090	<i>Podiceps cristatus</i> Great Crested Grebe	–	–	–	–	–	–	1
00720	<i>Phalacrocorax carbo</i> Cormorant	–	–	–	–	–	–	5
00950	<i>Botaurus stellaris</i> Bittern	–	–	–	–	–	–	2
00980	<i>Ixobrychus minutus</i> Little Bittern	–	–	–	–	–	–	1
01220	<i>Ardea cinerea</i> Grey Heron	–	–	–	–	–	–	375
01340	<i>Ciconia ciconia</i> White Stork	–	–	–	–	–	–	364
01840	<i>Anas crecca</i> Teal	–	–	–	–	–	–	3
01860	<i>Anas platyrhynchos</i> Mallard	–	–	–	–	1	1	5
01910	<i>Anas querquedula</i> Garganey	–	–	–	–	–	–	6
02150	<i>Melanitta fusca</i> Velvet Scoter	–	–	–	–	–	–	1
02310	<i>Pernis apivorus</i> Honey Buzzard	–	–	–	–	–	–	17
02380	<i>Milvus migrans</i> Black Kite	–	–	–	–	–	–	1
02600	<i>Circus aeruginosus</i> Marsh Harrier	–	–	–	–	–	–	4
02610	<i>Circus cyaneus</i> Hen Harrier	–	–	–	–	–	–	69
02620	<i>Circus macrourus</i> Pallid Harrier	–	–	–	–	–	–	1
02630	<i>Circus pygargus</i> Montagu’s Harrier	–	–	–	–	–	–	5
02670	<i>Accipiter gentilis</i> Goshawk	1	–	–	–	–	1	48
02690	<i>Accipiter nisus</i> Sparrowhawk	52	3	–	–	–	55	7,450
02870	<i>Buteo buteo</i> Common Buzzard	–	–	–	–	–	–	23

Table 1. *Continued*

EUR- ING code	Species	Rybachy- type traps ("Frin- gilla")	Mist- nets ("Ryba- chy")	Nests		Other research projects and methods	Total ringed in 2013	Grand total 1956– 2013
				Nest- lings	Adults			
02900	<i>Buteo lagopus</i> Rough-legged Buzzard	–	–	–	–	–	–	2
03040	<i>Falco tinnunculus</i> Kestrel	–	–	–	–	1	1	17
03070	<i>Falco vespertinus</i> Red-footed Falcon	–	–	–	–	–	–	4
03090	<i>Falco columbarius</i> Merlin	–	–	–	–	–	–	36
03100	<i>Falco subbuteo</i> Hobby	–	–	–	–	–	–	14
03200	<i>Falco peregrinus</i> Peregrine	–	–	–	–	–	–	1
03700	<i>Coturnix coturnix</i> Quail	–	–	–	–	–	–	2
04070	<i>Rallus aquaticus</i> Water Rail	–	–	–	–	–	–	21
04080	<i>Porzana porzana</i> Spotted Crane	–	–	–	–	–	–	9
04210	<i>Crex crex</i> Corncrake	–	–	–	–	–	–	15
04240	<i>Gallinula chloropus</i> Moorhen	–	–	–	–	–	–	5
04290	<i>Fulica atra</i> Coot	–	–	–	–	–	–	3
04690	<i>Charadrius dubius</i> Little Ringed Plover	–	–	–	–	–	–	2
04700	<i>Charadrius hiaticula</i> Ringed Plover	–	–	–	–	–	–	3
04930	<i>Vanellus vanellus</i> Lapwing	–	–	–	–	–	–	23
04960	<i>Calidris canutus</i> Knot	–	–	–	–	–	–	3
04970	<i>Calidris alba</i> Sanderling	–	–	–	–	–	–	6
05010	<i>Calidris minuta</i> Little Stint	–	–	–	–	–	–	1
05120	<i>Calidris alpina</i> Dunlin	–	–	–	–	–	–	7
05170	<i>Philomachus pugnax</i> Ruff	–	–	–	–	–	–	7
05180	<i>Lymnocyptes minima</i> Jack Snipe	–	–	–	–	–	–	17

Table 1. *Continued*

EUR- ING code	Species	Rybachy- type traps ("Frin- gilla")	Mist- nets ("Ryba- chy")	Nests		Other research projects and methods	Total ringed in 2013	Grand total 1956– 2013
				Nest- lings	Adults			
05190	<i>Gallinago gallinago</i> Snipe	–	–	–	–	–	–	32
05290	<i>Scolopax rusticola</i> Woodcock	4	1	–	–	–	5	218
05410	<i>Numenius arquata</i> Curlew	–	–	–	–	–	–	1
05530	<i>Tringa ochropus</i> Green Sandpiper	–	–	–	–	–	–	21
05540	<i>Tringa glareola</i> Wood Sandpiper	–	–	–	–	–	–	18
05560	<i>Actitis hypoleucos</i> Common Sandpiper	–	–	–	–	–	–	42
05610	<i>Arenaria interpres</i> Turnstone	–	–	–	–	–	–	1
05820	<i>Larus ridibundus</i> Black-headed Gull	–	–	–	–	–	–	41
05900	<i>Larus canus</i> Common Gull	–	–	–	–	–	–	2
05910	<i>Larus fuscus</i> Lesser Black-backed Gull	–	–	–	–	–	–	3
06000	<i>Larus marinus</i> Great Black-backed Gull	–	–	–	–	–	–	1
061150	<i>Sterna hirundo</i> Common Tern	–	–	–	–	–	–	1
06340	<i>Uria aalge</i> Guillemot	–	–	–	–	–	–	1
06650	<i>Columba livia</i> Rock Dove	1	–	–	–	–	1	15
06680	<i>Columba oenas</i> Stock Dove	–	–	–	–	–	–	17
06700	<i>Columba palumbus</i> Woodpigeon	–	–	–	–	–	–	67
06840	<i>Streptopelia decaocto</i> Collared Dove	–	–	–	–	–	–	34
06870	<i>Streptopelia turtur</i> Turtle Dove	–	–	–	–	–	–	124
07240	<i>Cuculus canorus</i> Cuckoo	21	–	–	–	–	21	1,548
07350	<i>Tyto alba</i> Barn Owl	–	–	–	–	–	–	7

Table 1. *Continued*

EUR- ING code	Species	Rybachy- type traps ("Fringilla")	Mist- nets ("Rybachy")	Nests		Other research projects and methods	Total ringed in 2013	Grand total 1956– 2013
				Nest- lings	Adults			
09760	<i>Alauda arvensis</i> Skylark	–	–	–	–	–	–	488
09780	<i>Eremophilla alpestris</i> Shore Lark	–	–	–	–	–	–	5
09810	<i>Riparia riparia</i> Sand Martin	12	6	–	–	–	18	5,132
09920	<i>Hirundo rustica</i> Swallow	309	25	65	–	14	413	12,269
10010	<i>Delichon urbica</i> House Martin	15	6	–	–	2	23	8,703
10020	<i>Anthus novaseelandiae</i> Richard's Pipit	–	–	–	–	–	–	3
10050	<i>Anthus campestris</i> Tawny Pipit	2	–	–	–	–	2	142
10090	<i>Anthus trivialis</i> Tree Pipit	8	–	–	–	9	17	6,140
10110	<i>Anthus pratensis</i> Meadow Pipit	7	1	–	–	–	8	11,051
10140	<i>Anthus spinoletta</i> Water Pipit	–	–	–	–	–	–	3
10142	<i>Anthus petrosus</i> Rock Pipit	–	–	–	–	–	–	1
10170	<i>Motacilla flava</i> Yellow Wagtail	4	3	–	–	1	8	2,927
10180	<i>Motacilla citreola</i> Citrine Wagtail	–	–	–	–	–	–	1
10190	<i>Motacilla cinerea</i> Grey Wagtail	–	–	–	–	2	2	13
10200	<i>Motacilla alba</i> Pied Wagtail	182	32	30	–	1	245	13,035
10480	<i>Bombycilla garrulus</i> Waxwing	–	–	–	–	1	1	1,343
10500	<i>Cinclus cinclus</i> Dipper	–	–	–	–	–	–	1
10660	<i>Troglodytes troglodytes</i> Wren	98	152	–	–	21	271	13,679
10840	<i>Prunella modularis</i> Dunnock	6	46	–	–	4	56	6,717
10990	<i>Erithacus rubecula</i> Robin	1,141	2,209	–	–	350	3,700	192,500
11030	<i>Luscinia luscinia</i> Thrush Nightingale	4	74	–	–	5	83	2,637

Table 1. *Continued*

EUR- ING code	Species	Rybachy- type traps (“Frin- gilla”)	Mist- nets (“Ryba- chy”)	Nests		Other research projects and methods	Total ringed in 2013	Grand total 1956– 2013
				Nest- lings	Adults			
11060	<i>Luscinia svecica</i> Bluethroat	1	–	–	–	–	1	227
11130	<i>Tarsiger cyanurus</i> Red-flanked Bluetail	–	–	–	–	–	–	3
11210	<i>Phoenicurus ochruros</i> Black Redstart	20	1	–	–	–	21	1,618
11220	<i>Phoenicurus phoenicurus</i> Redstart	52	79	5	–	17	153	14,104
11370	<i>Saxicola rubetra</i> Whinchat	16	5	–	–	–	21	3,337
11390	<i>Saxicola torquata</i> Stonechat	–	–	–	–	–	–	3
11460	<i>Oenanthe oenanthe</i> Northern Wheatear	–	–	–	–	–	–	861
11860	<i>Turdus torquatus</i> Ring Ouzel	–	–	–	–	–	–	14
11870	<i>Turdus merula</i> Blackbird	219	280	–	–	17	516	15,163
11980	<i>Turdus pilaris</i> Fieldfare	2	1	–	–	–	3	2,551
12000	<i>Turdus philomelos</i> Song Thrush	86	175	–	–	12	273	29,571
12010	<i>Turdus iliacus</i> Redwing	1	12	–	–	–	13	6,283
12020	<i>Turdus viscivorus</i> Mistle Thrush	1	–	–	–	–	1	315
12360	<i>Locustella naevia</i> Grasshopper Warbler	4	2	–	–	3	9	773
12370	<i>Locustella fluviatilis</i> River Warbler	–	1	–	–	2	3	171
12380	<i>Locustella luscinioides</i> Savi’s Warbler	–	–	–	–	–	–	88
12430	<i>Acrocephalus schoenobaenus</i> Sedge Warbler	7	282	–	–	13	302	10,976
12470	<i>Acrocephalus agricola</i> Paddyfield Warbler	–	2	–	–	–	2	8
12480	<i>Acrocephalus dumetorum</i> Blyth’s Reed Warbler	–	9	–	–	1	10	121
12500	<i>Acrocephalus palustris</i> Marsh Warbler	3	207	–	–	9	219	6,766
12510	<i>Acrocephalus scirpaceus</i> Reed Warbler	–	370	–	–	22	392	22,191

Table 1. *Continued*

EUR- ING code	Species	Rybachy- type traps ("Frin- gilla")	Mist- nets ("Ryba- chy")	Nests		Other research projects and methods	Total ringed in 2013	Grand total 1956– 2013
				Nest- lings	Adults			
12530	<i>Acrocephalus arundinaceus</i> Great Reed Warbler	1	72	–	–	11	84	3,417
12560	<i>Hippolais caligata</i> Booted Warbler	1	–	–	–	–	1	7
12590	<i>Hippolais icterina</i> Icterine Warbler	86	89	–	–	54	229	12,123
12650	<i>Sylvia cantillans</i> Subalpine Warbler	–	–	–	–	–	–	4
12670	<i>Sylvia melanocephala</i> Sardinian Warbler	–	–	–	–	–	–	1
12730	<i>Sylvia nisoria</i> Barred Warbler	4	3	–	–	2	9	3,993
12740	<i>Sylvia curruca</i> Lesser Whitethroat	61	151	5	–	11	228	19,873
12750	<i>Sylvia communis</i> Whitethroat	67	130	–	–	20	217	14,045
12760	<i>Sylvia borin</i> Garden Warbler	28	291	–	–	123	442	24,572
12770	<i>Sylvia atricapilla</i> Blackcap	227	932	–	–	177	1,336	28,571
12930	<i>Phylloscopus trochiloides</i> Greenish Warbler	1	2	–	–	–	3	120
12980	<i>Phylloscopus proregulus</i> Pallas's Warbler	–	–	–	–	–	–	29
13000	<i>Phylloscopus inornatus</i> Yellow-browed Warbler	5	–	–	–	–	5	125
13010	<i>Phylloscopus schwarzi</i> Radde's Warbler	–	–	–	–	–	–	3
13030	<i>Phylloscopus fuscatus</i> Dusky Warbler	–	–	–	–	–	–	2
13070	<i>Phylloscopus bonelli</i> Bonelli's Warbler	–	–	–	–	–	–	1
13080	<i>Phylloscopus sibilatrix</i> Wood Warbler	208	249	–	–	57	514	17,113
13110	<i>Phylloscopus collybita</i> Chiffchaff	92	105	–	–	4	201	12,738
13120	<i>Phylloscopus trochilus</i> Willow Warbler	578	311	6	–	91	986	159,640

Table 1. *Continued*

EUR- ING code	Species	Rybachy- type traps (“Frin- gilla”)	Mist- nets (“Ryba- chy”)	Nests		Other research projects and methods	Total ringed in 2013	Grand total 1956– 2013
				Nest- lings	Adults			
13140	<i>Regulus regulus</i> Goldcrest	523	500	–	–	84	1,107	390,672
13150	<i>Regulus ignicapillus</i> Firecrest	–	3	–	–	–	3	97
13350	<i>Muscicapa striata</i> Spotted Flycatcher	38	49	–	–	45	132	10,803
13430	<i>Ficedula parva</i> Red-breasted Flycatcher	3	14	–	–	8	25	1,264
13480	<i>Ficedula albicollis</i> Collared Flycatcher	1	–	–	–	–	1	28
13490	<i>Ficedula hypoleuca</i> Pied Flycatcher	62	127	196	19	138	542	30,350
13640	<i>Panurus biarmicus</i> Bearded Tit	–	–	–	–	–	–	500
14370	<i>Aegithalos caudatus</i> Long-tailed Tit	34	68	–	–	–	102	61,531
14400	<i>Parus palustris</i> Marsh Tit	4	22	7	–	12	45	2,380
14420	<i>Parus montanus</i> Willow Tit	8	–	–	–	2	10	2,346
14540	<i>Parus cristatus</i> Crested Tit	3	–	–	–	2	5	798
14610	<i>Parus ater</i> Coal Tit	457	–	43	–	20	520	58,174
14620	<i>Parus caeruleus</i> Blue Tit	916	237	20	1	66	1,240	97,085
14640	<i>Parus major</i> Great Tit	4,900	1,142	204	19	434	6,699	257,817
14790	<i>Sitta europaea</i> Nuthatch	–	1	–	–	5	6	394
14860	<i>Certhia familiaris</i> Treetreeper	10	45	–	–	5	60	9,003
14870	<i>Certhia brachydactyla</i> Short-toed Treetreeper	1	–	–	–	–	1	18
14900	<i>Remiz pendulinus</i> Penduline Tit	11	35	–	–	20	66	1,417
15080	<i>Oriolus oriolus</i> Golden Oriole	2	1	–	–	–	3	291
15150	<i>Lanius collurio</i> Red-backed Shrike	18	15	–	–	12	45	3,547

Table 1. *Continued*

EUR- ING code	Species	Rybachy- type traps ("Fringilla")	Mist- nets ("Rybachy")	Nests		Other research projects and methods	Total ringed in 2013	Grand total 1956– 2013
				Nest- lings	Adults			
15200	<i>Lanius excubitor</i> Great Gray Shrike	–	1	–	–	–	1	115
15390	<i>Garrulus glandarius</i> Jay	10	2	–	–	1	13	6,453
15490	<i>Pica pica</i> Magpie	–	–	–	–	–	–	87
15570	<i>Nucifraga caryocatactes</i> Nutcracker	–	–	–	–	–	–	472
15600	<i>Coloeus monedula</i> Jackdaw	–	–	–	–	2	2	80
15630	<i>Corvus frugilegus</i> Rook	–	–	–	–	–	–	60
15672	<i>Corvus corone cornix</i> Hooded Crow	–	–	–	–	–	–	73
15720	<i>Corvus corax</i> Raven	–	–	–	–	–	–	4
15820	<i>Sturnus vulgaris</i> Starling	72	11	–	–	2	85	108,432
15910	<i>Passer domesticus</i> House Sparrow	–	1	–	–	28	29	1,104
15980	<i>Passer montanus</i> Tree Sparrow	–	–	–	–	2	2	353
16360	<i>Fringilla coelebs</i> Chaffinch	3,565	280	3	–	192	4,040	767,681
16380	<i>Fringilla montifringilla</i> Brambling	110	6	–	–	6	122	74,763
16400	<i>Serinus serinus</i> Serin	–	–	–	–	1	1	471
16490	<i>Carduelis chloris</i> Greenfinch	32	13	–	–	11	56	7,912
16530	<i>Carduelis carduelis</i> Goldfinch	3	3	–	–	1	7	3,130
16540	<i>Carduelis spinus</i> Siskin	534	80	–	–	1,041	1,655	229,358
16600	<i>Carduelis cannabina</i> Linnet	2	–	–	–	–	2	1,650
16620	<i>Carduelis flavirostris</i> Twite	–	–	–	–	–	–	32
16630	<i>Carduelis flammea</i> Redpoll	44	26	–	–	8	78	13,914

Table 1. *Continued*

EUR- ING code	Species	Rybachy- type traps (“Frin- gilla”)	Mist- nets (“Ryba- chy”)	Nests		Other research projects and methods	Total ringed in 2013	Grand total 1956– 2013
				Nest- lings	Adults			
16640	<i>Carduelis hornemanni</i> Arctic Redpoll	–	–	–	–	–	–	18
16650	<i>Loxia leucoptera</i> Two-barred Crossbill	1	–	–	–	1	2	23
16660	<i>Loxia curvirostra</i> Crossbill	140	–	–	–	1,703	1,843	17,330
16680	<i>Loxia pytyopsittacus</i> Parrot Crossbill	–	–	–	–	–	–	19
16790	<i>Carpodacus erythrinus</i> Scarlet Rosefinch	12	45	–	–	24	81	7,257
16990	<i>Pinicola enucleator</i> Pine Grosbeak	–	–	–	–	–	–	1
17100	<i>Pyrrhula pyrrhula</i> Bullfinch	21	13	–	–	2	36	14,615
17170	<i>Coccothraustes coccothraustes</i> Hawfinch	3	20	–	–	10	33	1,846
18470	<i>Calcarius lapponicus</i> Lapland Bunting	–	–	–	–	–	–	3
18500	<i>Plectrophenax nivalis</i> Snow Bunting	–	–	–	–	–	–	1
18570	<i>Emberiza citrinella</i> Yellowhammer	10	1	–	–	6	17	4,815
18660	<i>Emberiza hortulana</i> Ortolan Bunting	–	–	–	–	–	–	517
18730	<i>Emberiza rustica</i> Rustic Bunting	1	–	–	–	–	1	11
18740	<i>Emberiza pusilla</i> Little Bunting	–	–	–	–	–	–	11
18770	<i>Emberiza schoeniclus</i> Reed Bunting	2	10	–	–	1	13	2,800
18810	<i>Emberiza melanocephala</i> Black-headed Bunting	–	–	–	–	–	–	1
18820	<i>Miliaria calandra</i> Corn Bunting	–	–	–	–	–	–	8
Total birds		15,308	9,167	584	39	4,986	30,084	2,908,498
Total species		86	71	11	3	68	102	199

2. Results of bird ringing in 2013

Overall, 30,084 birds of 102 species were trapped and ringed by the Biological Station “Rybachy” in the framework research projects. A total of 15,308 birds of 86 species were trapped and ringed in Rybachy-type traps and the field site “Fringilla”, and 9,167 birds of 71 species were trapped and ringed in mist nets at the field site “Rybachy”. In 2013, 584 pulli of 11 species and 39 adults of 3 species were ringed at nests. Finally, 4,921 birds of 59 species were trapped and ringed by other methods in the framework of short-term research projects in 2013, including trapping by mist-nets near water pools in “Fringilla”. A more detailed account of ringing results is presented in Table 1.

Apart from the EURING code, scientific and English names of a species, the following information is given: (1) trapping figures at “Fringilla” field site by Rybachy-type traps; (2) trapping figures at “Rybachy” field site in a joint Russian-German research project; (3) the number of pulli and adults ringed at nests; (4) the number of birds trapped by other methods in different research projects (incl. a small number of birds captured and ringed incidentally); (5) overall ringing figures for 2013. Additionally, the grand ringing totals for 1956–2013 are presented for each species.

Numbers of retraps and controls at the place of ringing are presented in first three columns of Table 3. A total of 1,008 individuals of 49 species ringed in 2013 produced 1,545 retraps. In addition, 312 controls (29 species) were obtained from birds ringed in previous years.

3. List of long-distance recoveries reported in 2013

The number of recoveries for each species is presented in Table 2 (columns 4 and 5). The lists include: birds ringed by the station on the Courish Spit and subsequently recovered more than 20km from the ringing site (section 3.1); controls of birds ringed outside the Russian part of the Courish Spit (section 3.2). In sections 3.1 and 3.2, we present all recoveries that were reported to the station between 15.03.2012 and 15.03.2013. The sequence of species follows EURING (1979).

3.1. Long-distance recoveries of birds ringed on the Courish Spit

For each species, EURING code, scientific and English name and number of recoveries (in parenthesis) are presented.

Explanation of line contents.

Every individual has data on two lines: on the upper one are ringing information (ring No, ringing date, sex, age [see below], ringing place with coordinates). If a bird was retrapped at the site of ringing, place and date of the last retrap are given in brackets. The sign “–” before the ring number showed that there is no series letter. In this and previous reports (Bolshakov et al. 1999, 2000, 2002a, b, 2003, 2004, 2005, 2008, 2009a, b, c, 2010, 2011, 2012, 2013) rings with series “C”, “E”, “M”, “O”, “P”, “R”, “S”, “FS”, “KS”, “MB”, “N”, “PB”, “RZ”, “VD”, “VK”, “VN”, “VS”, “VT”, “TA”,

Table 2. Retraps, controls, and recoveries of birds.

EUR- ING code	Species	Retraps of birds ringed in 2013		Controls of birds ringed earlier than 2013	Recoveries of our birds outside the Courish Spit	Recoveries of birds ringed outside the Courish Spit
		birds	retraps			
01520	<i>Cygnus olor</i> Mute Swan	–	–	–	–	1
02690	<i>Accipiter nisus</i> Sparrowhawk	–	–	–	1	–
07240	<i>Cuculus canorus</i> Cuckoo	1	1	–	–	–
08310	<i>Alcedo atthis</i> Kingfisher	1	1	–	–	–
08480	<i>Jynx torquilla</i> Wryneck	1	1	–	–	–
08760	<i>Dendrocopos major</i> Great Spotted Woodpecker	9	10	2	–	–
08870	<i>Dendrocopos minor</i> Lesser Spotted Woodpecker	2	2	–	–	–
09920	<i>Hirundo rustica</i> Swallow	7	7	4	–	–
10090	<i>Anthus trivialis</i> Tree Pipit	–	–	1	–	–
10200	<i>Motacilla alba</i> White Wagtail	24	28	11	–	–
10660	<i>Troglodytes troglodytes</i> Wren	11	12	–	–	–
10840	<i>Prunella modularis</i> Dunnock	1	1	–	–	–
10990	<i>Erithacus rubecula</i> Robin	160	227	–	1	3
11030	<i>Luscinia luscinia</i> Thrush Nightingale	11	25	9	–	–
11220	<i>Phoenicurus phoenicurus</i> Redstart	9	19	–	–	–
11870	<i>Turdus merula</i> Blackbird	18	23	6	2	–
12000	<i>Turdus philomelos</i> Song Thrush	2	2	–	1	–
12010	<i>Turdus iliacus</i> Redwing	–	–	–	1	–
12430	<i>Acrocephalus schoenobaenus</i> Sedge Warbler	21	25	–	–	1
12500	<i>Acrocephalus palustris</i> Marsh Warbler	25	32	2	–	–
12510	<i>Acrocephalus scirpaceus</i> Reed Warbler	72	130	28	2	2

Table 1. *Continued*

EUR- ING code	Species	Retraps of birds ringed in 2013		Controls of birds ringed earlier than 2013	Recoveries of our birds outside the Courish Spit	Recoveries of birds ringed outside the Courish Spit
		birds	retraps			
12530	<i>Acrocephalus arundinaceus</i> Great Reed Warbler	19	35	19	–	1
12590	<i>Hippolais icterina</i> Icterine Warbler	18	37	10	–	–
12740	<i>Sylvia curruca</i> Lesser Whitethroat	20	36	9	–	–
12750	<i>Sylvia communis</i> Whitethroat	6	6	–	–	–
12760	<i>Sylvia borin</i> Garden Warbler	12	16	4	–	–
12770	<i>Sylvia atricapilla</i> Blackcap	125	181	18	–	1
13080	<i>Phylloscopus sibilatrix</i> Wood Warbler	1	2	–	–	1
13110	<i>Phylloscopus collybita</i> Chiffchaff	9	12	–	–	–
13120	<i>Phylloscopus trochilus</i> Willow Warbler	35	96	53	1	2
13140	<i>Regulus regulus</i> Goldcrest	19	23	–	3	1
13150	<i>Regulus ignicapillus</i> Firecrest	–	–	–	–	1
13350	<i>Muscicapa striata</i> Spotted Flycatcher	4	4	–	–	–
13430	<i>Ficedula parva</i> Red-breasted Flycatcher	1	1	–	–	–
13480	<i>Ficedula albicollis</i> Collared Flycatcher	–	–	–	–	1
13490	<i>Ficedula hypoleuca</i> Pied Flycatcher	3	3	–	1	–
14370	<i>Aegithalos caudatus</i> Long-tailed Tit	7	7	–	–	–
14400	<i>Parus palustris</i> Marsh Tit	16	35	2	–	–
14420	<i>Parus montanus</i> Willow Tit	4	5	2	–	–
14540	<i>Parus cristatus</i> Crested Tit	1	1	–	–	–
14610	<i>Parus ater</i> Coal Tit	1	1	1	2	6

Table 1. *Continued*

EUR- ING code	Species	Retraps of birds ringed in 2013		Controls of birds ringed earlier than 2013	Recoveries of our birds outside the Courish Spit	Recoveries of birds ringed outside the Courish Spit
		birds	retraps			
14620	<i>Parus caeruleus</i> Blue Tit	51	78	3	5	17
14640	<i>Parus major</i> Great Tit	142	210	10	30	30
14790	<i>Sitta europaea</i> Nuthatch	4	8	1	–	–
14860	<i>Certhia familiaris</i> Treetreeper	10	20	1	–	1
14900	<i>Remiz pendulinus</i> Penduline Tit	4	4	–	2	–
15390	<i>Garrulus glandarius</i> Jay	–	–	1	–	–
15820	<i>Sturnus vulgaris</i> Starling	–	–	1	2	3
16360	<i>Fringilla coelebs</i> Chaffinch	60	104	106	10	–
16380	<i>Fringilla montifringilla</i> Brambling	1	1	–	2	–
16490	<i>Carduelis chloris</i> Greenfinch	1	1	3	–	–
16540	<i>Carduelis spinus</i> Siskin	11	14	2	9	4
16630	<i>Carduelis flammea</i> Redpoll	2	2	–	–	–
16660	<i>Loxia curvirostra</i> Crossbill	34	41	–	–	–
16790	<i>Carpodacus erythrinus</i> Scarlet Rosefinch	4	4	1	–	–
17100	<i>Pyrrhula pyrrhula</i> Bullfinch	–	–	–	1	–
17170	<i>Coccothraustes coccothraustes</i> Hawfinch	5	8	1	–	–
18570	<i>Emberiza citrinella</i> Yellowhammer	–	–	1	–	–
18770	<i>Emberiza schoeniclus</i> Reed Bunting	3	3	–	1	–
Total birds		1008	1545	312	77	76
Total species		49	49	29	19	17

“XA”, “XB”, “XC”, “XD”, “XF”, “XG”, “XH”, “XK”, “XL”, “XN”, “XR”, “XS”, “XT”, “XY” and “XZ” bear the inscription “Moskwa”, series “K”, “V” and “AX” bear the inscription “Russia, Petersburg”.

On the lower line, recovery information (recovery date; sex; age; place of recovery – country, province, nearest site; coordinates, printed in parenthesis if only very roughly estimated); circumstances of recovery (see below); time elapsed between ringing and recovery dates in days; distance in km and direction in degrees (North – 0°, East – 90°). Distance was estimated according to the orthodrome, the great circle route and direction was estimated according to the loxodrome. If a bird was retrapped several times at the place of ringing, the latest retrap was used for calculating the time elapsed. If a ring was added, ringing scheme and new ring no. are given.

Codes:

SEX – M – male; F – female; I – unknown.

AGE:

0 – age unknown, i.e. not recorded.

1 – pullus: nestling or chick, unable to fly freely, still able to be caught by hand.

2 – full-grown: able to fly freely but age otherwise unknown.

3 – first-year: full-grown bird hatched in the breeding season of this calendar year.

4 – after first year: full-grown bird hatched before this calendar year, year of birth otherwise unknown.

5 – second year: a bird born last calendar year and now in its second calendar year.

6 – after second year: full-grown bird born before last calendar year, year of birth otherwise unknown.

Circumstances of recovery:

x – found dead

(x) – found sick or wounded, later died

xA – found dead long ago, remnants only: skeleton, leg with ring

xE – hit overhead wires or electrocuted

xG – collided with window, glasshouse, etc.

xN – found dead in fish nets

+ – shot

(+) – killed by man

+K – killed by cat

+M – killed by other mammal

+Ac – killed by raptor

+T – victim of traffic

V – controlled: trapped and released with the same ring

() – caught alive and released with another ring or ring removed

C? – caught, further fate unknown

r – ring only found

! – ring read

rAc – ring found in a raptor pellet

/?/ – manner of recovery unknown

& – ring added

(15.03.1999) – finding date is not known exactly, date when recovery letter was sent is given.

In cases when the exact date is not known:

00.03.1998 – exact date (day) of recovery is not known

beg.03.1998 – bird found in the beginning of the month

mid.03.1998 – bird found in the middle of the month

end.03.1998 – bird found in the end of the month

In such cases time elapsed is recorded as 00.

In total, between 15.03.2013 and 15.03.2014, we received from the national Ringing Centre in Moscow information on 77 recoveries of birds of 19 species, ringed on the Courish Spit (see 3.1, the list of long-distance recoveries of birds ringed on the Courish Spit).

3.2. Controls of birds ringed outside the Courish Spit

In 2013 the station controlled a total of 76 birds of 17 species ringed outside the Courish Spit. The line structure is the same: after the ring number, we give the ringing scheme (see 3.2, controls of birds ringed outside the Courish Spit). For 13 birds of 6 species ringed outside the Courish Spit and controlled by the Biological Station Rybachy in 2013, ringing information is still not available from the national Ringing Centre (see 3.3, data with ringing information not yet available).

4. Participants

The following members of the Biological Station, students, colleagues and amateur bird ringers participated in bird trapping and ringing in 2013 (listed by alphabetical order):

N. Chernetsov, V. Grinkevich, D. Kobylkov, D. Kishkinev, D. Leoke, Y. Loschagina, M. Markovets, A. Mukhin, M. Paranicheva, O. Pokrovskaya, L. Roberts, A. Sinelschikova, A. Shapoval, E. Shapoval, N. Shapoval, L. Sokolov, N. Sosedova, E. Tronikova, A. Tsvey.

2.1. Long-distance recoveries of birds, ringed on the Courish Spit

02690. <i>Accipiter nisus</i>, Sparrowhawk (1)									
P 825111	16.04.1989 24.07.1991	M 5	Russia, Fringilla Finland, Mikkelä, Rantasalmi, Tuusmäki	55.05N, 20.44E 61.59N, 28.03E	x	829 days, 876 km, 29°			
11870. <i>Turdus merula</i>, Blackbird (2)									
637471	11.04.1979 11.10.2013	F 5	Russia, Fringilla Ukraine, Novograd-Volynsky, Smolka	55.05N, 20.44E 50.35N, 27.36E	r	00 days, 680 km, 137°			
K 007486	01.04.2001 09.04.2002	F 5 F 6	Russia, Fringilla Poland, Gdansk, Hel	55.05N, 20.44E 54.46N, 18.28E	& HE12080 Poland, Gdansk	373 days, 149 km, 256°			
12000. <i>Turdus philomelos</i>, Song Thrush (1)									
TA79943	09.10.2012 17.11.2013	I 3	Russia, Fringilla Spain, Navarra, Lerin	55.05N, 20.44E 42.29N, 1.58W	+	404 days, 2173 km, 230°			
12010. <i>Turdus iliacus</i>, Redwing (1)									
TA49622	18.10.2011 11.10.2012	I 3 I 4	Russia, Rybachy Belgium, Hamme, Sint Anna	55.09N, 20.51E 51.06N, 4.09E	V	359 days, 1201 km, 248°			
12510. <i>Acrocephalus scirpaceus</i>, Reed Warbler (2)									
XH37336	07.06.2011 06.08.2013	I 4 I 4	Russia, Rybachy France, Lot-et-Garonne, Villeton	55.09N, 20.51E 44.23N, 0.17E	x	791 days, 1900 km, 231°			
XH79723	06.08.2012 14.08.2012	I 3 I 3	Russia, Rybachy Belgium, Liege, Beaufays	55.09N, 20.51E 50.34N, 5.38E	V	8 days, 1141 km, 243°			
12530. <i>Acrocephalus arundinaceus</i>, Great Reed Warbler (1)									
KS 11176	04.07.2007 05.05.2012	F 4 F 4	Russia, Rybachy Italy, C. Rossi, Rimini	55.09N, 20.51E 44.06N, 12.29E	V	1767 days, 1367 km, 206°			
13120. <i>Phylloscopus trochilus</i>, Willow Warbler (1)									
VK37183	18.08.2010 02.07.2013	I 3	Russia, Fringilla Finland, Kuopio, Kontiolathi, Kontupelto	55.05N, 20.44E 62.45N, 29.52E	+T	1049 days, 1000 km, 31°			

13140. <i>Regulus regulus</i>, Goldcrest (3)									
VN37839	20.10.2012	F	3	Russia, Rybachy	55.09N, 20.51E				105 days, 1915 km, 233°
	02.02.2013			France, Gironde, Saint-Medard-en-Jalles	44.54N, 0.43W	x			
VN58051	17.10.2012	M	3	Russia, Fringilla	55.05N, 20.44E	V			23 days, 1148 km, 249°
	09.11.2012	M	3	Belgium, Antwerpen, Brecht	51.21N, 4.39E				
VN76993	25.09.2013	F	3	Russia, Fringilla	55.05N, 20.44E				16 days, 680 km, 229°
	11.10.2013			Germany, Sachsen, Waldheim, Meinsberg	51.05N, 13.01E	xG			
13490. <i>Ficedula hypoleuca</i>, Pied Flycatcher (1)									
VN19264	26.08.2012	M	4	Russia, Fringilla	55.05N, 20.44E				430 days, 1417 km, 18°
	30.10.2013			Finland, Lappi, Naruska, Salla	67.10N, 29.10E	xA			
14610. <i>Parus ater</i>, Coal Tit (2)									
XH84927	17.09.2012	M	3	Russia, Fringilla	55.05N, 20.44E				65 days, 1069 km, 252°
	21.11.2012	I	3	Netherlands, Utrecht, Soest	52.11N, 5.16E	V			176 days, 1069 km, 252°
	12.03.2013	I	5	Netherlands, Utrecht, Soest	52.11N, 5.16E	V			
XZ07635	17.10.2012	M	3	Russia, Fringilla	55.05N, 20.44E				10 days, 117 km, 227°
	27.10.2012	I	5	Poland, Gdansk, Krynica Morska, Sietkierki	54.22N, 19.24E	V			
14620. <i>Parus caeruleus</i>, Blue Tit (5)									
XH80579	10.09.2012	M	3	Russia, Rybachy	55.09N, 20.51E				62 days, 1250 km, 245°
	11.11.2012	M	3	Belgium, Hainaut, Henegouwen, Ghlin	50.28N, 3.56E	V			
XH86900	21.09.2012	M	3	Russia, Fringilla	55.05N, 20.44E				58 days, 1252 km, 248°
	18.11.2012	M	3	Belgium, West-Vlaanderen, Meulebeke	50.57N, 3.18E	V			
XH88117	24.09.2012	M	3	Russia, Fringilla	55.05N, 20.44E				51 days, 1129 km, 248°
	14.11.2012			Belgium, Antwerpen, Oud Turnhout	51.19N, 4.59E	V			
XN72598	16.04.2008	F	6	Russia, Fringilla	55.05N, 20.44E				202 days, 1246 km, 248°
	04.11.2008			Belgium, Oost-Vlaanderen, Zulte	50.55N, 3.26E	V			
XP 03739	01.07.2008	I	3	Russia, Fringilla	55.05N, 20.44E				113 days, 1222 km, 250°
	22.10.2008	I	3	Belgium, Oost-Vlaanderen, Sint Laureins	51.15N, 3.32E	V			

14640. <i>Parus major</i> , Great Tit (30)									
O 961800	25.09.2003	M	3	Russia, Fringilla	55.05N, 20.44E				
	13.10.2013	M	6	Lithuania, Panevezys	55.44N, 24.21E	V		3671 days, 239 km, 72°	
XH86601	11.10.2011	F	3	Russia, Rybachy	55.09N, 20.51E	V		375 days, 309 km, 253°	
	20.10.2012	F	4	Poland, Zachodniopomorskie, Dabkowitze, Darlowo	54.20N, 16.15E	V			
XH42747	08.10.2011	F	3	Russia, Fringilla	55.05N, 20.44E	V		376 days, 1275 km, 249°	
	18.10.2012	F	4	Belgium, West-Vlaanderen, Jonkershove	50.58N, 2.55E	V			
XH45923	12.10.2011	F	3	Russia, Fringilla	55.05N, 20.44E	V		487 days, 159 km, 242°	
	10.02.2013	F	6	Poland, Gdańsk, Gdańsk-Oliwa	54.25N, 18.32E	V		501 days, 159 km, 242°	
	24.02.2013	F	6	Poland, Gdańsk, Gdańsk-Oliwa	54.25N, 18.32E	V			
XH70218	20.10.2011	F	3	Russia, Fringilla	55.05N, 20.44E	V		365 days, 285 km, 256°	
	19.10.2012	F	5	Poland, Zachodniopomorskie, Darlowo, Kopan	54.28N, 16.25E	V			
XH70723	20.10.2011	M	4	Russia, Fringilla	55.05N, 20.44E	V		749 days, 712 km, 183°	
	07.11.2013	M	4	Slovak Republic, Nitra, Revuca	48.41N, 20.07E	V			
XH71253	21.10.2011	M	4	Russia, Fringilla	55.05N, 20.44E	V		541 days, 189 km, 258°	
	14.04.2013	M	4	Poland, Pomorskie, Choczewo, Przebendowo	54.44N, 17.50E	V			
XH75701	09.07.2012	F	3	Russia, Fringilla	55.05N, 20.44E	V		177 days, 1240 km, 249°	
	02.01.2013	F	3	Belgium, West-Vlaanderen, Beernem	51.09N, 3.20E	I			
XH81424	12.10.2012	F	3	Russia, Fringilla	55.05N, 20.44E	V		112 days, 160 km, 249°	
	01.02.2013	F	5	Poland, Pomorskie, Rumia	54.34N, 18.24E	V			
XH86601	21.09.2012	F	3	Russia, Fringilla	55.05N, 20.44E	V		8 days, 281 km, 257°	
	29.09.2012	F	3	Poland, Zachodniopomorskie, Darlowo, Wicie	54.30N, 16.28E	V			
XH86768	21.09.2012	F	3	Russia, Fringilla	55.05N, 20.44E	V		191 days, 918 km, 258°	
	31.03.2013	F	5	Netherlands, Groningen, Eemshaven-oost	53.26N, 6.52E	V			
XH86776	21.09.2012	M	3	Russia, Fringilla	55.05N, 20.44E	V		51 days, 1146 km, 247°	
	11.11.2012	M	3	Belgium, Antwerpen, Blauberg	51.03N, 4.56E	V			
XH87595	24.09.2012	F	3	Russia, Fringilla	55.05N, 20.44E	V		196 days, 189 km, 258°	
	08.04.2013	F	5	Poland, Pomorskie, Choczewo, Przebendowo	54.44N, 17.50E	V			
XH87966	24.09.2012	M	3	Russia, Fringilla	55.05N, 20.44E	V		26 days, 1148 km, 249°	
	20.10.2012	M	3	Belgium, Antwerpen, Brecht	51.21N, 4.39E	V			
XH88722	26.09.2012	F	3	Russia, Fringilla	55.05N, 20.44E	V		4 days, 117 km, 227°	
	30.09.2012	F	3	Poland, Gdańsk, Krynica Morska, Siekierki	54.22N, 19.24E	V			

XH88825	27.09.2012	M	3	Russia, Fringilla	55.05N, 20.44E					
	23.03.2013	M	5	Poland, Gdansk, Wrzeszcz	54.22N, 18.36E	V		177 days, 158 km, 240°		
XH89592	29.09.2012	F	3	Russia, Fringilla	55.05N, 20.44E	V		192 days, 189 km, 258°		
	09.04.2013	F	5	Poland, Pomorskie, Choczewo, Przebendowo	54.44N, 17.50E	V				
XH89919	29.09.2012	F	3	Russia, Fringilla	55.05N, 20.44E	V		187 days, 428 km, 252°		
	04.04.2013	F	5	Poland, Gdansk, Poznan, Miedzzydroje, Wapnica	53.53N, 14.26E	V				
XH89919	29.09.2012	F	3	Russia, Fringilla	55.05N, 20.44E	V		187 days, 428 km, 252°		
	04.04.2013	F	5	Poland, Poznan, Miedzzydroje, Wapnica	53.53N, 14.26E	V				
XR01651	02.10.2013	M	3	Russia, Rybachy	55.09N, 20.51E	V		3 days, 120 km, 225°		
XR05024	05.10.2013	M	3	Poland, Gdansk, Krynica Morska, Lesniczowka	54.23N, 19.32E	V		5 days, 353 km, 274°		
	06.10.2013	M	3	Russia, Fringilla	55.05N, 20.44E	V				
	11.10.2013	M	4	Denmark, Bornholm, Christianso	55.19N, 15.11E	V				
XR06817	07.10.2013	F	3	Russia, Fringilla	55.05N, 20.44E	V		18 days, 801 km, 274°		
	25.10.2013	F	3	Denmark, Jylland, Blavandsluk	55.33N, 8.05E	V		0 days, 32 km, 46°		
XZ02513	09.04.2013	M	5	Russia, Rybachy	55.09N, 20.51E	V		0 days, 32 km, 46°		
	09.04.2013	M	5	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	V		0 days, 32 km, 46°		
XZ02632	11.04.2013	F	5	Russia, Rybachy	55.09N, 20.51E	V		60 days, 148 km, 237°		
	11.04.2013	F	5	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	V		4 days, 117 km, 227°		
XZ03751	01.10.2012	M	3	Russia, Fringilla	55.05N, 20.44E	V		29 days, 1146 km, 247°		
	30.11.2012	M	3	Poland, Gdansk, Gorki Wschodnie	54.21N, 18.48E	V		30 days, 1118 km, 243°		
XZ03788	01.10.2012	M	3	Russia, Fringilla	55.05N, 20.44E	V		10 days, 300 km, 254°		
	06.10.2012	F	3	Poland, Gdansk, Krynica Morska, Siekierki	54.22N, 19.24E	V		9 days, 117 km, 227°		
XZ03888	01.10.2012	F	3	Russia, Fringilla	55.05N, 20.44E	V				
	30.10.2012	F	3	Belgium, Brabant, Zichem	51.00N, 4.59E	V				
XZ04121	01.10.2012	F	3	Russia, Fringilla	55.05N, 20.44E	V				
	31.10.2012	F	3	Belgium, Liege, Polleur	50.32N, 5.53E	V				
XZ04806	05.10.2012	F	4	Russia, Fringilla	55.05N, 20.44E	V				
	15.10.2012	F	4	Poland, Zachodniopomorskie, Dabkowice, Darlowo	54.20N, 16.15E	V				
XZ08449	20.10.2012	F	3	Russia, Fringilla	55.05N, 20.44E	V				
	29.10.2012	F	4	Poland, Gdansk, Krynica Morska, Siekierki	54.22N, 19.24E	V				

14900. <i>Remiz pendulinus</i>, Penduline Tit (2)									
XH37612	12.07.2011	M	4	Russia, Rybachy	55.09N, 20.51E				837 days, 701 km, 212°
	26.10.2013	M	4	Czech Republic, Sredocesky a Praha, Senetin	49.49N, 15.19E		V		
XH79984	17.08.2012	I	3	Russia, Rybachy	55.09N, 20.51E				43 days, 671 km, 214°
	29.09.2012	F	3	Czech Republic, Nymburk, Zehun	50.08N, 15.18E		V		
15820. <i>Sturnus vulgaris</i>, Starling (2)									
K 005442	23.07.2002	F	3	Russia, Rybachy	55.09N, 20.51E				00 days, 1229 km, 249°
	01.10.2006- 31.10.2006			Belgium, Oost-Vlaanderen, Kaprijke	51.13N, 3.36E		+		
TA31733	27.08.2010	F	3	Russia, Rybachy	55.09N, 20.51E				878 days, 1804 km, 253°
	21.01.2013	F	6	Great Britain, Cornwall, Austell	50.21N, 4.47W		V		
16360. <i>Fringilla coelebs</i>, Chaffinch (10)									
O 300812	10.10.1985	M	4	Russia, Fringilla	55.05N, 20.44E				00 days, 675 km, 23°
	27.05.1991			Finland, Uusimaa, Mantsala, Soukkio	60.40N, 25.14E		rAc		
O 446113	23.09.1988	M	4	Russia, Fringilla	55.05N, 20.44E				965 days, 793 km, 32°
	16.05.1991			Finland, Kymi, Lemi, Tevaniemi	61.10N, 27.49E		+T		
O 934148	21.09.1999	M	3	Russia, Fringilla	55.05N, 20.44E				241 days, 741 km, 16°
	19.05.2000	M	5	Finland, Hame, Kangasala, Keso	61.30N, 24.10E		xG		
KS47334	29.09.2012	M	3	Russia, Fringilla	55.05N, 20.44E				208 days, 488 km, 340°
	25.04.2013			Sweden, Stockholm, Huddinge	59.13N, 18.01E		x		
XG12281	06.10.2009	M	4	Russia, Fringilla	55.05N, 20.44E				212 days, 961 km, 25°
	06.05.2010			Finland, Kuopio, Kelloniemi	62.55N, 27.52E		xG		
XG13565	09.10.2009	M	3	Russia, Fringilla	55.05N, 20.44E				1106 days, 1121 km, 243°
	19.10.2012	M	6	Belgium, Liege, Oneux	50.33N, 5.49E		V		
XH	04.10.2010	M	3	Russia, Fringilla	55.05N, 20.44E				938 days, 735 km, 11°
13464	29.04.2013			Finland, Turku-Pori, Hameenkyro, Arostensalmi	61.34N, 23.15E		xG		
XH31145	25.09.2011	F	4	Russia, Fringilla	55.05N, 20.44E				549 days, 1020 km, 236°
	27.03.2013			Germany, Rheinland-Pfalz, Mainz, Katzenberg	49.59N, 8.11E		x		
XP32987	05.10.2008	M	3	Russia, Fringilla	55.05N, 20.44E				1631 days, 1460 km, 239°
	24.03.2013			France, Essonne, Milly-la-Forêt	48.24N, 2.28E		xA		

18770. <i>Emberiza schoeniclus</i> , Reed Bunting (1)	
XP06827	10.08.2008 I 3 Russia, Rybachy
	08.03.2013 M 6 Belgium, Antwerpen, Blauberg
	55.09N, 20.51E
	51.03N, 4.56E V
	1671 days, 1155 km, 247°

2.2. Controls of birds, ringed outside the Courish Spit

01520. <i>Cygnus olor</i> , Mute Swan (1)	
AH0977	Poland, Gdansk
	03.01.2011 I 5 Poland, Elblag, Gdynia
	08.03.2013 I 4 Russia, Kaliningrad, Baltijsk
	54.31N, 18.33E
	54.38N, 19.54E †
	795 days, 88 km, 82°
10990. <i>Erithacus rubecula</i> , Robin (2)	
J171692	Latvia, Riga
	14.09.2012 I 3 Latvia, Liepaja, Pape
	20.09.2012 I 3 Russia, Fringilla
VL65342	Lithuania, Kaunas
	06.09.2013 I 3 Lithuania, Šilute, Ventes Ragas
	10.09.2013 I 3 Russia, Rybachy
	56.09N, 21.01E
	55.05N, 20.44E & XH85798
	6 days, 120 km, 189°
	55.21N, 21.13E
	55.09N, 20.51E & XR00252
	4 days, 32 km, 226°
11870. <i>Turdus merula</i> , Blackbird (1)	
HE57082	Poland, Gdansk
	15.09.2010 M 3 Poland, Darlowo, Wicie
	10.05.2011 M 5 Russia, Fringilla
	54.30N, 16.28E
	55.05N, 20.44E & TA78422
	237 days, 281 km, 77°
12430. <i>Acrocephalus schoenobaenus</i> , Sedge Warbler (1)	
7A35221	Italy, Bologna
	20.08.2012 I 3 Italy, Bologna, La Morte-Bentivoglio
	16.05.2013 I 4 Russia, Fringilla
	44.40N, 11.26E
	55.05N, 20.44E & XZ12508
	269 days, 1335 km, 30°
12510. <i>Acrocephalus scirpaceus</i> , Reed Warbler (2)	
CA57476	Estonia, Matsalu
	20.08.2013 I 3 Estonia, Pärnu, Tostmaa, Lao
	02.09.2013 I 3 Russia, Rybachy
	58.15N, 24.06E
	55.09N, 20.51E & XZ19894
	13 days, 397 km, 210°
AV97829	Netherlands, Arnhem
	23.08.2011 I 3 Netherlands, Gelderland, Ooijpolder, Ooijse Graaf
	15.05.2013 I 4 Russia, Rybachy
	51.51N, 5.58E
	55.09N, 20.51E & XZ18213
	631 days, 1050 km, 70°
12770. <i>Sylvia atricapilla</i> , Blackcap (1)	
1ER70670	Sweden, Stockholm
	26.04.2012 M 5 Sweden, Gotlands, Sundre, Hoburgen
	29.04.2013 M 6 Russia, Fringilla
	56.55N, 18.08E
	55.05N, 20.44E & XZ11902
	368 days, 260 km, 142°

13080. <i>Phylloscopus sibilatrix</i>, Wood Warbler (1)									
4G3469	Italy, Bologna	26.04.2013	I	4	Italy, Sicilia, Palermo, Ustica, Spalmatore			38.42N, 13.10E	
		03.05.2013	I	4	Russia, Fringilla			55.05N, 20.44E	+Parus 7 days, 1909 km, 17°
13140. <i>Regulus regulus</i>, Goldcrest (1)									
TA9173	Sweden, Stockholm	15.10.2013	M	4	Sweden, Skane, Ljunghusen			55.24N, 12.57E	
		20.10.2013	M	3	Russia, Rybachy			55.09N, 20.51E	& VN79823 5 days, 501 km, 93°
13480. <i>Ficedula albicollis</i>, Collared Flycatcher (1)									
CS37479	Sweden, Stockholm	19.06.2012	I	1	Sweden, Gotland, Prastanget, Kallunge			57.37N, 18.36E	
		07.05.2013	F	5	Russia, Fringilla			55.05N, 20.44E	& VN75614 322 days, 311 km, 155°
14370. <i>Aegithalos caudatus</i>, Long-tailed Tit (3)									
106409	Latvia, Riga	10.10.2012	I	3	Latvia, Liepaja, Pape			56.09N, 21.01E	
		17.10.2012	I	2	Russia, Fringilla			55.05N, 20.44E	& VN58217 7 days, 120 km, 189°
106424	Latvia, Riga	10.10.2012	I	3	Latvia, Liepaja, Pape			56.09N, 21.01E	
		17.10.2012	I	2	Russia, Fringilla			55.05N, 20.44E	& VN58207 7 days, 120 km, 189°
106502	Latvia, Riga	10.10.2012	I	2	Latvia, Liepaja, Pape			56.09N, 21.01E	
		17.10.2012	I	2	Russia, Fringilla			55.05N, 20.44E	& VN58206 7 days, 120 km, 189°
14610. <i>Parus ater</i>, Coal Tit (7)									
J171241	Latvia, Riga	08.09.2012	I	3	Latvia, Liepaja, Pape			56.09N, 21.01E	
		10.09.2012	F	3	Russia, Fringilla			55.05N, 20.44E	& XH82977 2 days, 120 km, 189°
J171999	Latvia, Riga	21.09.2012	I	3	Latvia, Liepaja, Pape			56.09N, 21.01E	
		24.09.2012	F	3	Russia, Fringilla			55.05N, 20.44E	& XH88025 3 days, 120 km, 189°
XE13429	Lithuania, Kaunas	16.09.2013	I	3	Lithuania, Šilute, Ventes Ragas			55.21N, 21.13E	
		18.09.2013	M	3	Russia, Fringilla			55.05N, 20.44E	& XZ14873 2 days, 43 km, 226°
XE13561	Lithuania, Kaunas	16.09.2013	I	3	Lithuania, Šilute, Ventes Ragas			55.21N, 21.13E	
		18.09.2013	M	3	Russia, Fringilla			55.05N, 20.44E	& XZ14895 2 days, 43 km, 226°
XE13594	Lithuania, Kaunas	16.09.2013	I	3	Lithuania, Šilute, Ventes Ragas			55.21N, 21.13E	
		18.09.2013	F	3	Russia, Fringilla			55.05N, 20.44E	& XZ14916 2 days, 43 km, 226°
XE15721	Lithuania, Kaunas	23.09.2013	I	3	Lithuania, Šilute, Ventes Ragas			55.21N, 21.13E	
		27.09.2013	M	3	Russia, Fringilla			55.05N, 20.44E	& XZ15811 4 days, 43 km, 226°
XE15819	Lithuania, Kaunas	27.09.2013	I	3	Lithuania, Šilute, Ventes Ragas			55.21N, 21.13E	
		12.10.2013	M	3	Russia, Fringilla			55.05N, 20.44E	& XR07321 15 days, 43 km, 226°

14620. <i>Parus caeruleus</i>, Blue Tit (14)													
JAS2309	Latvia, Riga	14.10.2013	F	3	Latvia, Liepaja, Pape	56.09 N, 21.01 E							
		19.10.2013	F	3	Russia, Fringilla	55.05 N, 20.44 E	& XR08231	5 days, 120 km, 189°					
VF19391	Lithuania, Kaunas	20.09.2012	F	4	Lithuania, Šilute, Ventes Ragas	55.21 N, 21.13 E	& XZ15634	370 days, 43 km, 226°					
		25.09.2013	F	6	Russia, Fringilla	55.05 N, 20.44 E							
VL47644	Lithuania, Kaunas	08.10.2012	F	4	Lithuania, Šilute, Ventes Ragas	55.21 N, 21.13 E	& XR07929	375 days, 43 km, 226°					
		18.10.2013	F	6	Russia, Fringilla	55.05 N, 20.44 E							
VL64778	Lithuania, Kaunas	21.09.2013	F	3	Lithuania, Šilute, Ventes Ragas	55.21 N, 21.13 E	& XZ15725	5 days, 43 km, 226°					
		26.09.2013	F	3	Russia, Fringilla	55.05 N, 20.44 E							
VL66234	Lithuania, Kaunas	24.09.2013	F	3	Lithuania, Šilute, Ventes Ragas	55.21 N, 21.13 E	& XR07981	25 days, 43 km, 226°					
		19.10.2013	F	3	Russia, Fringilla	55.05 N, 20.44 E							
VL67512	Lithuania, Kaunas	25.09.2013	F	3	Lithuania, Šilute, Ventes Ragas	55.21 N, 21.13 E	& XZ15922	3 days, 43 km, 226°					
		28.09.2013	F	3	Russia, Fringilla	55.05 N, 20.44 E							
VL68857	Lithuania, Kaunas	02.10.2013	F	3	Lithuania, Šilute, Ventes Ragas	55.21 N, 21.13 E	& XR04101	3 days, 43 km, 226°					
		05.10.2013	F	3	Russia, Fringilla	55.05 N, 20.44 E							
VL71034	Lithuania, Kaunas	04.10.2013	F	3	Lithuania, Šilute, Ventes Ragas	55.21 N, 21.13 E	& XR05251	2 days, 43 km, 226°					
		06.10.2013	F	3	Russia, Fringilla	55.05 N, 20.44 E							
VL86820	Lithuania, Kaunas	19.10.2013	F	3	Lithuania, Šilute, Ventes Ragas	55.21 N, 21.13 E	& XR08644	5 days, 43 km, 226°					
		24.10.2013	F	3	Russia, Fringilla	55.05 N, 20.44 E							
VL91678	Lithuania, Kaunas	19.10.2013	M	3	Lithuania, Šilute, Ventes Ragas	55.21 N, 21.13 E	& XR08580	5 days, 43 km, 226°					
		24.10.2013	M	3	Russia, Fringilla	55.05 N, 20.44 E							
VU54196	Lithuania, Kaunas	19.09.2010	F	3	Lithuania, Šilute, Ventes Ragas	55.21 N, 21.13 E	& XZ16430	1110 days, 43 km, 226°					
		03.10.2013	F	6	Russia, Fringilla	55.05 N, 20.44 E							
VX83886	Lithuania, Kaunas	05.10.2013	F	3	Lithuania, Kursiu Nerija, Joudkrantes Gaudykle	55.34 N, 21.06 E	& XR06544	2 days, 58 km, 203°					
		07.10.2013	F	3	Russia, Fringilla	55.05 N, 20.44 E							
VX85096	Lithuania, Kaunas	14.10.2013	M	3	Lithuania, Kursiu Nerija, Joudkrantes Gaudykle	55.34 N, 21.06 E	& XR08211	5 days, 58 km, 203°					
		19.10.2013	M	3	Russia, Fringilla	55.05 N, 20.44 E							
VX85512	Lithuania, Kaunas	17.10.2013	M	4	Lithuania, Kursiu Nerija, Joudkrantes Gaudykle	55.34 N, 21.06 E	& XR08238	2 days, 58 km, 203°					
		19.10.2013	M	4	Russia, Fringilla	55.05 N, 20.44 E							

14640. *Parus major*, Great Tit (28)

55V04699	Belgium, Bruxelles	28.03.2013	F	5	Belgium, Limburg, Rekem	50.56N, 5.42E				
		08.04.2013	F	4	Russia, Kaliningrad, Gur'evskij r-n, pos. Roschino	54.39N, 20.37E	V		11 days, 1084 km, 68°	
55V16870	Belgium, Bruxelles	10.10.2012	F	3	Belgium, Brabant, Begijnendijk	51.01N, 4.46E				
		25.10.2013	F	4	Russia, Fringilla	55.05N, 20.44E	& XR08867		380 days, 1158 km, 67°	
55V52960	Belgium, Bruxelles	05.03.2013	F	4	Belgium, West-Vlaanderen, Waregem	50.53N, 3.26E				
		16.04.2013	F	6	Russia, Fringilla	55.05N, 20.44E	V		42 days, 1248 km, 68°	
82127742	Germany, Helgoland	06.03.2013	F	5	Germany, Osnabrück, Westerberg	52.17N, 8.00E				
		06.10.2013	F	4	Russia, Fringilla	55.05N, 20.44E	& XR05227		214 days, 894 km, 70°	
F292542	Latvia, Riga	16.09.2012	F	3	Latvia, Gulbene, Lejasciems	57.15N, 23.34E				
		06.04.2013	F	5	Russia, Fringilla	55.05N, 20.44E	& XZ10448		202 days, 298 km, 216°	
JA21051	Latvia, Riga	29.05.2011	I	1	Latvia, Liepaja, Priekule	56.27N, 21.40E				
		24.09.2011	F	3	Russia, Fringilla	55.05N, 20.44E	& XH34817		118 days, 163 km, 201°	
JA34238	Latvia, Riga	03.06.2012	I	1	Latvia, Priekule, Elkuciemis	56.25N, 21.44E				
		06.10.2013	F	4	Russia, Fringilla	55.05N, 20.44E	& XR06061		490 days, 161 km, 203°	
JA41412	Latvia, Riga	02.06.2013	I	1	Latvia, Priekule, Elkuciemis	56.25N, 21.44E				
		26.09.2013	M	3	Russia, Fringilla	55.05N, 20.44E	& XZ15701		116 days, 161 km, 203°	
JA41537	Latvia, Riga	09.06.2013	I	1	Latvia, Priekule, Elkuciemis	56.25N, 21.44E				
		25.09.2013	F	3	Russia, Fringilla	55.05N, 20.44E	& XZ15574		108 days, 161 km, 203°	
VF03445	Lithuania, Kaunas	21.10.2011	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E				
		07.04.2013	M	6	Russia, Rybachy	55.09N, 20.51E	& XZ02451		534 days, 32 km, 226°	
VF15616	Lithuania, Kaunas	16.09.2012	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E				
		22.04.2013	F	5	Russia, Fringilla	55.05N, 20.44E	& XZ11559		218 days, 43 km, 226°	
VF29529	Lithuania, Kaunas	22.09.2012	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E				
		10.04.2013	M	5	Russia, Rybachy	55.09N, 20.51E	& XZ02593		200 days, 32 km, 226°	
VL81848	Lithuania, Kaunas	08.10.2013	F	4	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E				
		10.10.2013	F	4	Russia, Fringilla	55.05N, 20.44E	& XR07188		2 days, 43 km, 226°	
VS04473	Lithuania, Kaunas	15.10.2013	M	3	Lithuania, Kursiu Nerija, Joudkrantes Gaudykle	55.34N, 21.06E				
		19.10.2013	M	3	Russia, Fringilla	55.05N, 20.44E	& XR08280		4 days, 58 km, 203°	

VX83926	Lithuania, Kaunas	05.10.2013	F	3	Lithuania, Kursiu Nerija, Joudkrantes Gaudykle	55.34N, 21.06E	& XR06467	2 days, 58 km, 203°
		07.10.2013	F	3	Russia, Fringilla	55.05N, 20.44E		
VX83951	Lithuania, Kaunas	06.10.2013	M	3	Lithuania, Kursiu Nerija, Joudkrantes Gaudykle	55.34N, 21.06E	& XR06931	1 day, 58 km, 203°
		07.10.2013	M	3	Russia, Fringilla	55.05N, 20.44E		
VX84231	Lithuania, Kaunas	10.10.2013	F	3	Lithuania, Kursiu Nerija, Joudkrantes Gaudykle	55.34N, 21.06E	& XR07830	7 days, 58 km, 203°
		17.10.2013	F	3	Russia, Fringilla	55.05N, 20.44E		
VX84548	Lithuania, Kaunas	11.10.2013	F	3	Lithuania, Kursiu Nerija, Joudkrantes Gaudykle	55.34N, 21.06E	& XR02716	9 days, 49 km, 199°
		20.10.2013	F	3	Russia, Rybachy	55.09N, 20.51E		
VX85042	Lithuania, Kaunas	14.10.2013	F	3	Lithuania, Kursiu Nerija, Joudkrantes Gaudykle	55.34N, 21.06E	& XR08575	10 days, 58 km, 203°
		24.10.2013	F	3	Russia, Fringilla	55.05N, 20.44E		
VX85277	Lithuania, Kaunas	15.10.2013	F	3	Lithuania, Kursiu Nerija, Joudkrantes Gaudykle	55.34N, 21.06E	& XR08284	4 days, 58 km, 203°
		19.10.2013	F	3	Russia, Fringilla	55.05N, 20.44E		
V604827	Netherlands, Arnhem	14.10.2012	F	3	Netherlands, Gelderland, Epe	52.22N, 5.54E	& XZ11306	185 days, 1021 km, 73°
		17.04.2013	F	5	Russia, Fringilla	55.05N, 20.44E		
AX37741	Netherlands, Arnhem	13.10.2013	F	4	Netherlands, Groningen, Uithuizen	53.25N, 6.41E	& XR08373	375 days, 931 km, 79°
		23.10.2013	F	4	Russia, Fringilla	55.05N, 20.44E		
FX68518	Netherlands, Arnhem	30.11.2012	F	3	Netherlands, Overijssel, Zwolle	52.29N, 6.06E	& XZ16722	308 days, 993 km, 72°
		04.10.2013	F	4	Russia, Fringilla	55.05N, 20.44E		
K1H7021	Poland, Gdansk	26.09.2011	M	3	Poland, Gdansk, Krynica Morska	54.21N, 19.23E	& XZ11188	568 days, 119 km, 47°
		16.04.2013	M	6	Russia, Fringilla	55.05N, 20.44E		
K2K0146	Poland, Gdansk	02.10.2012	M	3	Poland, Koszalin, Darlowo, Dabkowiec	54.20N, 16.15E	& XZ02542	190 days, 309 km, 73°
		10.04.2013	M	5	Russia, Rybachy	55.09N, 20.51E		
K2L2164	Poland, Gdansk	08.04.2013	M	6	Poland, Gdansk, Choczewo, Przebendowo	54.44N, 17.50E	& XZ10678	5 days, 189 km, 78°
		13.04.2013	M	6	Russia, Fringilla	55.05N, 20.44E		
K2L5533	Poland, Gdansk	22.04.2013	F	5	Poland, Gdansk, Choczewo, Przebendowo	54.44N, 17.50E	& XZ17777	14 days, 198 km, 76°
		06.05.2013	F	5	Russia, Rybachy	55.09N, 20.51E		
K7J0968	Poland, Gdansk	26.01.2013	M	6	Poland, Pomorskie, Gdynia-Obluze	54.33N, 18.31E	& XR02584	263 days, 169 km, 57°
		16.10.2013	M	4	Russia, Rybachy	55.09N, 20.51E		

14860. <i>Certhia familiaris</i>, Treecreeper (1)										
XE11192	Lithuania, Kaunas	29.03.2013	I	4	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E				
		05.04.2013	I	4	Russia, Rybachy	55.09N, 20.51E	& VN53386	7 days, 32 km, 226°		
15820. <i>Sturnus vulgaris</i>, Starling (3)										
KV92826	Lithuania, Kaunas	25.06.2013	I	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E				
		27.06.2013	F	3	Russia, Fringilla	55.05N, 20.44E	& TA84566	2 days, 43 km, 226°		
KV95432	Lithuania, Kaunas	25.06.2013	I	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E				
		27.06.2013	M	3	Russia, Fringilla	55.05N, 20.44E	& TA84596	2 days, 43 km, 226°		
KV95736	Lithuania, Kaunas	26.06.2013	I	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E				
		29.06.2013	F	3	Russia, Fringilla	55.05N, 20.44E	& TA84734	3 days, 43 km, 226°		
16540. <i>Carduelis spinus</i>, Siskin (4)										
12627690	Belgium, Bruxelles	23.03.2013	M	4	Belgium, Antwerpen, Zand	51.17N, 4.34E				
		09.10.2013	M	4	Russia, Fringilla	55.05N, 20.44E	& XR07084	200 days, 1156 km, 69°		
13052715	Belgium, Bruxelles	22.02.2013	M	4	Belgium, Limburg, Neerpelt	51.14N, 5.25E				
		24.04.2013	M	5	Russia, Fringilla	55.05N, 20.44E	V	61 days, 1106 km, 67°		
9G67849	Germany, Helgoland	18.03.2013	M	5	Germany, Darmstadt, Bad Homburg	50.13N, 8.37E				
		16.06.2013	M	5	Russia, Fringilla	55.05N, 20.44E	& XZ13012	90 days, 980 km, 56°		
5G3529	Italy, Bologna	11.10.2012	F	3	Italy, Bergamo, Colzate, PSo Di Biliben	45.50N, 9.48E				
		03.05.2013	F	5	Russia, Fringilla	55.05N, 20.44E	& XZ12057	204 days, 1281 km, 37°		

2.3. Data with ringing information still not available

10990. <i>Erithacus rubecula</i>, Robin (1)										
B4a3535	Germany, Radolfzell									
		04.05.2013	I	5	Russia, Fringilla	55.05N, 20.44E				& XZ 12137
12510. <i>Acrocephalus arundinaceus</i>, Great Reed Warbler (1)										
TV11218	Lithuania, Kaunas									
		02.05.2013	I	4	Russia, Rybachy	55.09N, 20.51E				& XG 76785

13150. <i>Regulus ignicapillus</i>, Firecrest (1)									
VJ5401	Latvia, Riga	12.10.2013	I	3	Russia, Rybachy	55.09N, 20.51E			& VN 79667
14610. <i>Parus ater</i>, Coal Tit (1)									
XE15588	Lithuania, Kaunas	27.09.2013	F	3	Russia, Fringilla	55.05N, 20.44E			& XZ 15882
14620. <i>Parus caeruleus</i>, Blue Tit (2)									
5476812	France, Paris	20.04.2013	F	5	Russia, Fringilla	55.05N, 20.44E			& XZ 11458
VL61809	Lithuania, Kaunas	28.09.2013	F	3	Russia, Fringilla	55.05N, 20.44E			& XZ 15974
14640. <i>Parus major</i>, Great Tit (7)									
55V43060	Belgium, Bruxelles	06.10.2013	F	4	Russia, Fringilla	55.05N, 20.44E			& XZ 05831
VA92543	Estonia, Matsalu	17.10.2013	M	3	Russia, Fringilla	55.05N, 20.44E			& XR 07831
J173371	Latvia, Riga	05.10.2013	F	4	Russia, Fringilla	55.05N, 20.44E			& XR 04536
VL70209	Lithuania, Kaunas	06.10.2013	M	3	Russia, Fringilla	55.05N, 20.44E			& XR 04945
Vs14617	Lithuania, Kaunas	02.04.2013	F	6	Russia, Rybachy	55.09N, 20.51E			& XZ 08087
VX83368	Lithuania, Kaunas	07.10.2013	F	3	Russia, Fringilla	55.05N, 20.44E		V	
V680424	Netherlands, Arnhem	05.10.2013	F	4	Russia, Fringilla	55.05N, 20.44E			& XR 04667

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