

Results of bird trapping and ringing by the Biological Station Rybachy on the Courish Spit in 2016

Anatoly P. Shapoval, Dmitry Yu. Leoke & Nadejda P. Zelenova

Abstract: Shapoval, A.P., Leoke D.Yu. & N.P. Zelenova: Results of bird trapping and ringing by the Biological Station Rybachy on the Courish Spit in 2016.

In 2016, a grand total of 39,351 birds of 92 species were trapped and ringed by the Biological Station Rybachy in the framework of long- and short-term research projects. A total of 1,577 ringed birds of 56 species produced 2,435 recaptures. In 2016, 268 birds of 31 species ringed on the Courish Spit in previous years were retrapped. Between 15.03.2016 and 15.03.2017, 74 birds of 24 species ringed on the Courish Spit were reported as recovered more than 20 km from the ringing site. In 2016, 139 birds of 21 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.

Keywords: bird ringing, retraps, long-distance recoveries, research projects

Address: Biological station Rybachy, Zoological Institute, Rybachy 238535, Kaliningrad Region, Russia. E-mail: apshap@mail.ru; dleoke@mail.ru; nzelenova@hotmail.com

This annual report is the 19th 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; 2014; Shapoval et al. 2017; 2018) and consists of two parts. The first part contains a short review of research projects, description of trapping techniques used and main ringing results (Tab.1), retraps and control captures (Tab.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 the 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 2015: trap 4 (NE orientation of entrance) – from March 31 until September 19, trap 5 (SW orientation of entrance) – from March 31 until October 26. 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 Cape Rossitten (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 2016, 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.

2. Results of bird ringing in 2016

Overall, 39,351 birds of 92 species were trapped and ringed by the Biological Station Rybachy in the framework research projects. A total of 18,421 birds of 75 species were trapped and ringed in Rybachy-type traps and the field site Fringilla, and 15,514 birds of 70 species were trapped and ringed in mist nets at the field site Rybachy. In 2016, 625 pulli of 12 species and 51 adults of 4 species were ringed at nests. Finally, 4,740 birds of 64 species were trapped and ringed by other methods in the framework of short-term research projects in 2016, including trapping by mist-nets near water pools in Fringilla. A more detailed account of ringing results is presented in Tab. 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; (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 2016. Additionally, the grand ringing totals for 1956–2016 are presented for each species.

Numbers of retraps and controls at the place of ringing are presented in first three columns of Tab. 3. A total of 1,577 individuals of 56 species ringed in 2016 produced 2,435 retraps. In addition, 268 controls (31 species) were obtained from birds ringed in previous years.

3. List of long-distance recoveries reported in 2016

The number of recoveries for each species is presented in Tab. 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 15.03.2016 and 15.03.2017. 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, 2014) rings with series “C”, “E”, “M”, “O”, “P”, “R”, “S”, “FS”, “KS”, “MB”, “N”, “PB”, “RZ”, “VD”, “VF”, “VK”, “VN”, “VS”, “VT”, “TA”, “XA”, “XB”, “XC”, “XD”, “XE”, “XF”, “XG”, “XH”, “XK”, “XL”, “XN”, “XR”, “XS”, “XT”, “XX”, “XY” and “XZ” bear the inscription “Moskwa”.

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 15.03.2016 and 15.03.2017, we received from the national Ringing Centre in Moscow information on 74 recoveries of birds of 24 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 2016 the station controlled a total of 139 birds of 21 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 of the Courish Spit).

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, D. Leoke, Y. Loschagina, M. Markovets, A. Mukhin, M. Parancheva, L. Roberts, A. Sinelschikova, A. Shapoval, E. Shapoval, N. Shapoval, L. Sokolov, N. Sosedova, E. Tronikova, A. Tsvey.

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Table 1. Numbers of birds ringed by Biological station Rybachy in 2016.

EURING code	Species	Rybachy- type traps ("Frin- gilla")	Mist- nets ("Ryba- chy")	Nests		Other research projects and methods	Total ringed in 2016	Grand total 1956– 2016
				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	–	–	–	–	–	–	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
02430	<i>Haliaeetus albicilla</i> White-tailed Eagle	–	–	–	–	–	–	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

Table 1. *Continued*

EURING code	Species	Rybachy- type traps ("Frin- gilla")	Mist- nets ("Ryba- chy")	Nests		Other research projects and methods	Total ringed in 2016	Grand total 1956– 2016
				Nest- lings	Adults			
02670	<i>Accipiter gentilis</i> Goshawk	–	–	–	–	–	–	51
02690	<i>Accipiter nisus</i> Sparrowhawk	26	–	–	–	1	27	7550
02870	<i>Buteo buteo</i> Common Buzzard	–	–	–	–	–	–	23
02900	<i>Buteo lagopus</i> Rough-legged Buzzard	–	–	–	–	–	–	2
03040	<i>Falco tinnunculus</i> Kestrel	–	–	–	–	–	–	18
03070	<i>Falco vespertinus</i> Red-footed Falcon	–	–	–	–	–	–	4
03090	<i>Falco columbarius</i> Merlin	–	–	–	–	–	–	36
03100	<i>Falco subbuteo</i> Hobby	–	–	–	–	–	–	15
03200	<i>Falco peregrinus</i> Peregrine	–	–	–	–	–	–	1
03700	<i>Coturnix coturnix</i> Quail	–	–	–	–	–	–	2
04070	<i>Rallus aquaticus</i> Water Rail	1	–	–	–	–	1	22
04080	<i>Porzana porzana</i> Spotted Crane	–	–	–	–	–	–	9
04210	<i>Crex crex</i> Corncrake	–	–	–	–	–	–	17
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

Table 1. *Continued*

EURING code	Species	Rybachy- type traps ("Frin- gilla")	Mist- nets ("Ryba- chy")	Nests		Other research projects and methods	Total ringed in 2016	Grand total 1956– 2016
				Nest- lings	Adults			
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	–	–	–	–	–	–	18
05190	<i>Gallinago gallinago</i> Snipe	–	–	–	–	–	–	34
05290	<i>Scolopax rusticola</i> Woodcock	–	–	–	–	–	–	220
05410	<i>Numenius arquata</i> Curlew	–	–	–	–	–	–	1
05530	<i>Tringa ochropus</i> Green Sandpiper	–	–	–	–	–	–	22
05540	<i>Tringa glareola</i> Wood Sandpiper	–	–	–	–	–	–	18
05560	<i>Actitis hypoleucos</i> Common Sandpiper	–	–	–	–	–	–	45
05610	<i>Arenaria interpres</i> Turnstone	–	–	–	–	–	–	1
05820	<i>Larus ridibundus</i> Black-headed Gull	–	–	–	–	–	–	42
05900	<i>Larus canus</i> Common Gull	–	–	–	–	–	–	2
05910	<i>Larus fuscus</i> Lesser Black-backed Gull	–	–	–	–	–	–	3
05920	<i>Larus argentatus</i> Herring Gull	–	–	–	–	1	1	1
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

Table 1. *Continued*

EURING code	Species	Rybachy- type traps ("Fringilla")	Mist- nets ("Rybachy")	Nests		Other research projects and methods	Total ringed in 2016	Grand total 1956– 2016
				Nest- lings	Adults			
06650	<i>Columba livia</i> Rock Dove	1	–	–	–	–	1	16
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	–	–	–	–	–	–	125
07240	<i>Cuculus canorus</i> Cuckoo	17	1	–	–	8	26	1641
07350	<i>Tyto alba</i> Barn Owl	–	–	–	–	–	–	7
07500	<i>Surnia ulula</i> Hawk Owl	–	–	–	–	–	–	5
07570	<i>Athene noctua</i> Little Owl	–	–	–	–	–	–	1
07610	<i>Strix aluco</i> Tawny Owl	–	–	–	–	1	1	62
07670	<i>Asio otus</i> Long-eared Owl	–	–	–	–	–	–	3391
07680	<i>Asio flammeus</i> Short-eared Owl	–	–	–	–	–	–	57
07700	<i>Aegolius funereus</i> Tengmalm's Owl	1	1	–	–	–	2	349
07780	<i>Caprimulgus europaeus</i> Nightjar	3	–	–	–	2	5	433
07950	<i>Apus apus</i> Swift	6	–	–	–	1	7	677
08310	<i>Alcedo atthis</i> Kingfisher	–	7	–	–	–	7	245
08410	<i>Coracias garrulus</i> Roller	–	–	–	–	–	–	3
08460	<i>Upupa epops</i> Hoopoe	–	–	–	–	–	–	170

Table 1. *Continued*

EURING code	Species	Rybachy- type traps ("Fringilla")	Mist- nets ("Rybachy")	Nests		Other research projects and methods	Total ringed in 2016	Grand total 1956– 2016
				Nest- lings	Adults			
10140	<i>Anthus spinoletta</i> Water Pipit	–	–	–	–	–	–	3
10142	<i>Anthus petrosus</i> Rock Pipit	–	–	–	–	–	–	1
10170	<i>Motacilla flava</i> Yellow Wagtail	2	2	–	–	–	4	2979
10180	<i>Motacilla citreola</i> Citrine Wagtail	–	–	–	–	–	–	1
10190	<i>Motacilla cinerea</i> Grey Wagtail	–	–	–	–	–	–	13
10200	<i>Motacilla alba</i> Pied Wagtail	183	23	11	–	3	220	13733
10480	<i>Bombycilla garrulus</i> Waxwing	–	12	–	–	–	12	1355
10500	<i>Cinclus cinclus</i> Dipper	–	–	–	–	–	–	1
10660	<i>Troglodytes troglodytes</i> Wren	222	665	–	–	33	920	15940
10840	<i>Prunella modularis</i> Dunnock	11	126	–	–	2	139	7025
10990	<i>Erithacus rubecula</i> Robin	856	3277	–	–	420	4553	205820
11030	<i>Luscinia luscinia</i> Thrush Nightingale	2	66	–	–	6	74	2832
11040	<i>Luscinia megarhynchos</i> Nightingale	–	1	–	–	–	1	1
11060	<i>Luscinia svecica</i> Bluethroat	–	3	–	–	–	3	234
11130	<i>Tarsiger cyanurus</i> Red-flanked Bluetail	–	–	–	–	–	–	3
11210	<i>Phoenicurus ochruros</i> Black Redstart	28	–	–	–	1	29	1695
11220	<i>Phoenicurus phoenicurus</i> Redstart	56	59	8	–	18	141	14540
11370	<i>Saxicola rubetra</i> Whinchat	10	2	–	–	–	12	3409
11390	<i>Saxicola torquata</i> Stonechat	–	–	–	–	–	–	3

Table 1. *Continued*

EURING code	Species	Rybachy- type traps ("Fringilla")	Mist- nets ("Rybachy")	Nests		Other research projects and methods	Total ringed in 2016	Grand total 1956– 2016
				Nest- lings	Adults			
11460	<i>Oenanthe oenanthe</i> Northern Wheatear	–	–	–	–	–	–	866
11860	<i>Turdus torquatus</i> Ring Ouzel	–	–	–	–	–	–	15
11870	<i>Turdus merula</i> Blackbird	25	201	–	–	30	256	16111
11980	<i>Turdus pilaris</i> Fieldfare	–	3	–	–	1	4	2567
12000	<i>Turdus philomelos</i> Song Thrush	36	190	–	–	10	236	30303
12010	<i>Turdus iliacus</i> Redwing	–	12	–	–	–	12	6339
12020	<i>Turdus viscivorus</i> Mistle Thrush	–	–	–	–	–	–	318
12360	<i>Locustella naevia</i> Grasshopper Warbler	7	1	–	–	–	8	801
12370	<i>Locustella fluviatilis</i> River Warbler	1	6	–	–	1	8	191
12380	<i>Locustella luscinioides</i> Savi's Warbler	–	3	–	–	–	3	96
12430	<i>Acrocephalus schoenobaenus</i> Sedge Warbler	1	179	–	–	31	211	11598
12470	<i>Acrocephalus agricola</i> Paddyfield Warbler	–	1	–	–	–	1	9
12480	<i>Acrocephalus dumetorum</i> Blyth's Reed Warbler	1	8	–	–	–	9	169
12500	<i>Acrocephalus palustris</i> Marsh Warbler	1	248	–	–	15	264	7538
12510	<i>Acrocephalus scirpaceus</i> Reed Warbler	3	337	–	–	40	380	23472
12530	<i>Acrocephalus arundinaceus</i> Great Reed Warbler	–	38	9	–	38	85	3664
12560	<i>Hippolais caligata</i> Booted Warbler	–	–	–	–	–	–	7
12590	<i>Hippolais icterina</i> Icterine Warbler	19	42	–	–	28	89	12518

Table 1. *Continued*

EURING code	Species	Rybachy- type traps ("Fringilla")	Mist- nets ("Rybachy")	Nests		Other research projects and methods	Total ringed in 2016	Grand total 1956– 2016
				Nest- lings	Adults			
12650	<i>Sylvia cantillans</i> Subalpine Warbler	–	–	–	–	–	–	4
12670	<i>Sylvia melanocephala</i> Sardinian Warbler	–	–	–	–	–	–	1
12730	<i>Sylvia nisoria</i> Barred Warbler	–	14	–	–	–	14	4030
12740	<i>Sylvia curruca</i> Lesser Whitethroat	36	161	5	–	18	220	20495
12750	<i>Sylvia communis</i> Whitethroat	59	104	–	–	19	182	14676
12760	<i>Sylvia borin</i> Garden Warbler	27	159	–	–	49	235	25471
12770	<i>Sylvia atricapilla</i> Blackcap	51	845	–	–	236	1132	31453
12930	<i>Phylloscopus trochiloides</i> Greenish Warbler	2	–	–	–	–	2	131
12980	<i>Phylloscopus proregulus</i> Pallas's Warbler	–	–	–	–	–	–	29
13000	<i>Phylloscopus inornatus</i> Yellow-browed Warbler	3	6	–	–	–	9	146
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	38	202	–	–	39	279	18010
13110	<i>Phylloscopus collybita</i> Chiffchaff	81	210	–	–	16	307	13594
13120	<i>Phylloscopus trochilus</i> Willow Warbler	519	431	12	–	163	1125	163497
13140	<i>Regulus regulus</i> Goldcrest	1092	2075	–	–	39	3206	405065
13150	<i>Regulus ignicapillus</i> Firecrest	1	18	–	–	3	22	138
13350	<i>Muscicapa striata</i> Spotted Flycatcher	36	37	11	–	26	110	11144

Table 1. *Continued*

EURING code	Species	Rybachy- type traps ("Frin- gilla")	Mist- nets ("Ryba- chy")	Nests		Other research projects and methods	Total ringed in 2016	Grand total 1956– 2016
				Nest- lings	Adults			
13430	<i>Ficedula parva</i> Red-breasted Flycatcher	3	13	–	–	12	28	1316
13480	<i>Ficedula albicollis</i> Collared Flycatcher	–	–	–	–	–	–	29
13490	<i>Ficedula hypoleuca</i> Pied Flycatcher	54	125	114	20	110	423	31487
13640	<i>Panurus biarmicus</i> Bearded Tit	–	20	–	–	–	20	533
14370	<i>Aegithalos caudatus</i> Long-tailed Tit	1867	1519	–	–	34	3420	69124
14400	<i>Parus palustris</i> Marsh Tit	6	15	–	–	36	57	2541
14420	<i>Parus montanus</i> Willow Tit	8	–	–	–	8	16	2388
14540	<i>Parus cristatus</i> Crested Tit	10	–	–	–	11	21	849
14610	<i>Parus ater</i> Coal Tit	1322	8	18	–	71	1419	61252
14620	<i>Parus caeruleus</i> Blue Tit	2636	724	40	3	232	3635	103994
14640	<i>Parus major</i> Great Tit	5642	2122	343	13	186	8306	278694
14790	<i>Sitta europaea</i> Nuthatch	–	3	–	–	3	6	431
14860	<i>Certhia familiaris</i> Treetreeper	49	307	–	–	5	361	9820
14870	<i>Certhia brachydactyla</i> Short-toed Treetreeper	–	–	–	–	–	–	18
14900	<i>Remiz pendulinus</i> Penduline Tit	1	20	–	–	3	24	1510
15080	<i>Oriolus oriolus</i> Golden Oriole	–	–	–	–	–	–	299
15150	<i>Lanius collurio</i> Red-backed Shrike	15	15	–	–	3	33	3701
15200	<i>Lanius excubitor</i> Great Gray Shrike	1	–	–	–	–	1	116
15390	<i>Garrulus glandarius</i> Jay	36	13	–	–	1	50	6587

Table 1. *Continued*

EURING code	Species	Rybachy- type traps ("Fringilla")	Mist- nets ("Rybachy")	Nests		Other research projects and methods	Total ringed in 2016	Grand total 1956– 2016
				Nest- lings	Adults			
15490	<i>Pica pica</i> Magpie	–	1	–	–	1	2	91
15570	<i>Nucifraga caryocatactes</i> Nutcracker	–	–	–	–	1	1	473
15600	<i>Coloeus monedula</i> Jackdaw	–	–	–	–	–	–	82
15630	<i>Corvus frugilegus</i> Rook	–	–	–	–	–	–	60
15672	<i>Corvus corone cornix</i> Hooded Crow	–	–	–	–	–	–	74
15720	<i>Corvus corax</i> Raven	–	–	–	–	–	–	4
15820	<i>Sturnus vulgaris</i> Starling	631	26	–	–	26	683	110797
15910	<i>Passer domesticus</i> House Sparrow	–	–	–	–	–	–	1205
15980	<i>Passer montanus</i> Tree Sparrow	–	–	–	–	–	–	368
16360	<i>Fringilla coelebs</i> Chaffinch	1724	353	3	–	324	2404	774723
16380	<i>Fringilla montifringilla</i> Brambling	34	9	–	–	14	57	75151
16400	<i>Serinus serinus</i> Serin	2	–	–	–	–	2	479
16490	<i>Carduelis chloris</i> Greenfinch	2	15	–	–	–	17	8028
16530	<i>Carduelis carduelis</i> Goldfinch	2	1	–	–	4	7	3154
16540	<i>Carduelis spinus</i> Siskin	561	52	–	–	2105	2718	242880
16600	<i>Carduelis cannabina</i> Linnet	2	–	–	–	–	2	1658
16620	<i>Carduelis flavirostris</i> Twite	–	–	–	–	–	–	32
16630	<i>Carduelis flammea</i> Redpoll	1	10	–	–	7	18	13977
16640	<i>Carduelis hornemanni</i> Arctic Redpoll	–	–	–	–	–	–	18

Table 1. *Continued*

EURING code	Species	Rybachy- type traps ("Frin- gilla")	Mist- nets ("Ryba- chy")	Nests		Other research projects and methods	Total ringed in 2016	Grand total 1956– 2016
				Nest- lings	Adults			
16650	<i>Loxia leucoptera</i> Two-barred Crossbill	–	–	–	–	–	–	25
16660	<i>Loxia curvirostra</i> Crossbill	8	–	–	–	116	124	17944
16680	<i>Loxia pytyopsittacus</i> Parrot Crossbill	–	–	–	–	–	–	19
16790	<i>Carpodacus erythrinus</i> Scarlet Rosefinch	1	40	–	–	7	48	7418
16990	<i>Pinicola enucleator</i> Pine Grosbeak	–	–	–	–	–	–	1
17100	<i>Pyrrhula pyrrhula</i> Bullfinch	252	256	–	–	39	547	15340
17170	<i>Coccothraustes coccothraustes</i> Hawfinch	2	11	–	–	30	43	1940
18470	<i>Calcarius lapponicus</i> Lapland Bunting	–	–	–	–	–	–	3
18500	<i>Plectrophenax nivalis</i> Snow Bunting	–	–	–	–	–	–	1
18570	<i>Emberiza citrinella</i> Yellowhammer	19	–	–	–	8	27	4883
18660	<i>Emberiza hortulana</i> Ortolan Bunting	–	–	–	–	–	–	517
18730	<i>Emberiza rustica</i> Rustic Bunting	–	–	–	–	–	–	11
18740	<i>Emberiza pusilla</i> Little Bunting	1	–	–	–	–	1	12
18770	<i>Emberiza schoeniclus</i> Reed Bunting	–	40	–	–	–	40	2890
18810	<i>Emberiza melanocephala</i> Black-headed Bunting	–	–	–	–	–	–	1
18820	<i>Miliaria calandra</i> Corn Bunting	–	–	–	–	–	–	8
Total birds		18421	15514	625	51	4740	39351	3024429
Total species		75	70	12	4	64	92	202

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

EURING code	Species	Retraps of birds ringed in 2016		Controls of birds ringed earlier than 2016	Recoveries of our birds outside the Courish Spit	Recoveries of birds ringed outside the Courish Spit
		birds	retraps			
02690	<i>Accipiter nisus</i> Sparrowhawk	–	–	–	1	–
05920	<i>Larus argentatus</i> Herring Gull	–	–	–	–	1
07240	<i>Cuculus canorus</i> Cuckoo	1	1	–	–	–
08760	<i>Dendrocopos major</i> Great Spotted Woodpecker	1	1	–	–	–
08870	<i>Dendrocopos minor</i> Lesser Spotted Woodpecker	1	1	2	–	–
09740	<i>Lullula arborea</i> Woodlark	1	1	–	–	–
09920	<i>Hirundo rustica</i> Swallow	7	10	3	–	1
10090	<i>Anthus trivialis</i> Tree Pipit	6	8	–	–	–
10200	<i>Motacilla alba</i> White Wagtail	8	11	12	–	1
10660	<i>Troglodytes troglodytes</i> Wren	52	73	2	1	1
10840	<i>Prunella modularis</i> Dunnock	1	1	–	–	–
10990	<i>Erithacus rubecula</i> Robin	204	290	1	4	2
11030	<i>Luscinia luscinia</i> Thrush Nightingale	19	35	5	–	–
11040	<i>Luscinia megarhynchos</i> Nightingale	1	1	–	–	–
11210	<i>Phoenicurus ochruros</i> Black Redstart	1	1	–	–	–
11220	<i>Phoenicurus phoenicurus</i> Redstart	8	15	1	–	–
11870	<i>Turdus merula</i> Blackbird	24	29	5	1	1
12000	<i>Turdus philomelos</i> Song Thrush	6	7	–	6	–
12020	<i>Turdus viscivorus</i> Mistle Thrush	–	–	–	1	–
12380	<i>Locustella luscinioides</i> Savi's Warbler	1	1	–	–	–

Table 2. *Continued*

EURING code	Species	Retraps of birds ringed in 2016		Controls of birds ringed earlier than 2016	Recoveries of our birds outside the Courish Spit	Recoveries of birds ringed outside the Courish Spit
		birds	retraps			
12430	<i>Acrocephalus schoenobaenus</i> Sedge Warbler	17	23	4	–	–
12480	<i>Acrocephalus dumetorum</i> Blyth's Reed Warbler	1	1	–	–	–
12500	<i>Acrocephalus palustris</i> Marsh Warbler	56	73	6	1	1
12510	<i>Acrocephalus scirpaceus</i> Reed Warbler	104	150	9	1	1
12530	<i>Acrocephalus arundinaceus</i> Great Reed Warbler	22	45	2	–	3
12590	<i>Hippolais icterina</i> Icterine Warbler	7	10	6	–	–
12730	<i>Sylvia nisoria</i> Barred Warbler	2	3	–	–	–
12740	<i>Sylvia curruca</i> Lesser Whitethroat	27	52	10	2	2
12750	<i>Sylvia communis</i> Whitethroat	5	7	1	–	–
12760	<i>Sylvia borin</i> Garden Warbler	49	72	13	1	–
12770	<i>Sylvia atricapilla</i> Blackcap	155	215	20	1	–
13000	<i>Phylloscopus inornatus</i> Yellow-browed Warbler	–	–	–	1	–
13080	<i>Phylloscopus sibilatrix</i> Wood Warbler	16	17	–	–	1
13110	<i>Phylloscopus collybita</i> Chiffchaff	20	24	–	–	2
13120	<i>Phylloscopus trochilus</i> Willow Warbler	82	221	55	1	–
13140	<i>Regulus regulus</i> Goldcrest	28	33	–	1	–
13150	<i>Regulus ignicapillus</i> Firecrest	2	2	–	–	–
13350	<i>Muscicapa striata</i> Spotted Flycatcher	4	5	2	–	–
13430	<i>Ficedula parva</i> Red-breasted Flycatcher	1	1	–	–	–

Table 2. *Continued*

EURING code	Species	Retraps of birds ringed in 2016		Controls of birds ringed earlier than 2016	Recoveries of our birds outside the Courish Spit	Recoveries of birds ringed outside the Courish Spit
		birds	retraps			
13490	<i>Ficedula hypoleuca</i> Pied Flycatcher	12	16	3	–	–
13640	<i>Panurus biarmicus</i> Bearded Tit	3	3	–	1	–
14370	<i>Aegithalos caudatus</i> Long-tailed Tit	59	66	–	7	53
14400	<i>Parus palustris</i> Marsh Tit	23	57	4	–	–
14420	<i>Parus montanus</i> Willow Tit	1	1	–	–	–
14540	<i>Parus cristatus</i> Crested Tit	4	6	–	–	–
14610	<i>Parus ater</i> Coal Tit	4	4	1	1	4
14620	<i>Parus caeruleus</i> Blue Tit	125	189	5	12	25
14640	<i>Parus major</i> Great Tit	276	446	12	11	25
14790	<i>Sitta europaea</i> Nuthatch	3	3	–	–	–
14860	<i>Certhia familiaris</i> Treetreeper	23	38	1	–	–
14900	<i>Remiz pendulinus</i> Penduline Tit	–	–	–	–	1
15150	<i>Lanius collurio</i> Red-backed Shrike	1	1	–	–	–
15390	<i>Garrulus glandarius</i> Jay	–	–	–	1	–
15820	<i>Sturnus vulgaris</i> Starling	1	1	–	4	8
15910	<i>Passer domesticus</i> House Sparrow	–	–	1	–	–
16360	<i>Fringilla coelebs</i> Chaffinch	55	100	75	7	1
16380	<i>Fringilla montifringilla</i> Brambling	–	–	–	1	–
16540	<i>Carduelis spinus</i> Siskin	15	25	1	5	4
16630	<i>Carduelis flammea</i> Redpoll	–	–	–	1	–

Table 2. *Continued*

EURING code	Species	Retraps of birds ringed in 2016		Controls of birds ringed earlier than 2016	Recoveries of our birds outside the Courish Spit	Recoveries of birds ringed outside the Courish Spit
		birds	retraps			
16660	<i>Loxia curvirostra</i> Crossbill	1	2	1	–	–
16790	<i>Carpodacus erythrinus</i> Scarlet Rosefinch	7	7	3	–	–
17100	<i>Pyrrhula pyrrhula</i> Bullfinch	15	19	–	–	–
17170	<i>Coccothraustes coccothraustes</i> Hawfinch	4	5	–	–	–
18570	<i>Emberiza citrinella</i> Yellowhammer	4	5	2	–	–
18770	<i>Emberiza schoeniclus</i> Reed Bunting	1	1	–	–	1
Total birds		1 577	2 435	268	74	139
Total species		56	56	31	24	21

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

10690. <i>Accipiter nisus</i>, Sparrowhawk (1)									
PB 138561	20.09.2011	M	3	Russia, Fringilla	55.05N, 20.44E				
	01.12.2016	M	4	Germany, Nordrhein-Westfalen, Geseke-Stormede	51.38N, 8.28E	x	1899 days, 899 km, 245°		
10660. <i>Troglodytes troglodytes</i>, Wren (1)									
VF 28493	24.10.2014	I	3	Russia, Rybachy	55.09N, 20.51E				
	13.10.2015	I	4	Poland, Zachodniopomorskie, Danlowo, Dabkowice	54.20N, 16.15E	V	354 days, 309 km, 253°		
10990. <i>Erithacus rubecula</i>, Robin (4)									
XE 47525	04.04.2016	I	5	Russia, Fringilla	55.05N, 20.44E				
	18.05.2016			Finland, Uusimaa, Pornainen, Laukkoski	60.26N, 25.22E	+K	44 days, 655 km, 25°		
XR 79518	09.04.2016	I	6	Russia, Rybachy	55.09N, 20.51E				
	26.10.2016	I	4	Germany, Mecklenburg-Vorpommern, Greifswalder Oie	54.15N, 13.55E	V	200 days, 456 km, 257°		
XZ 82391	21.09.2016	I	3	Russia, Rybachy	55.09N, 20.51E				
	23.09.2016	I	3	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	2 days, 44 km, 22°		
XZ 84355	16.09.2016	I	3	Russia, Rybachy	55.09N, 20.51E				
	20.10.2016			Spain, San Vicente Del Raspeig	38.25N, 0.31W	x	34 days, 2469 km, 221°		
11870. <i>Turdus merula</i>, Blackbird (1)									
PB 142328	17.08.2016	F	3	Russia, Rybachy	55.09N, 20.51E				
	21.10.2016	F		Belgium, Antwerpen, Herentals	51.09N, 4.50E	V	65 days, 1156 km, 247°		
12000. <i>Turdus philomelos</i>, Song Thrush (6)									
TA 06877	19.07.2016	I	3	Russia, Rybachy	55.09N, 20.51E				
	12.01.2017			Spain, Cádiz, Jerez de la Frontera, San Gíbalbin	36.40N, 5.38W	+	177 days, 2900 km, 225°		
TA 31441	24.09.2007	I	3	Russia, Rybachy	55.09N, 20.51E				
	(15.01.2008)			France, Pyrénées-Orientales, Ponteilla	42.38N, 2.49E	x	00 days, 1915 km, 223°		
TA 43413	18.09.2004	I	3	Russia, Fringilla	55.05N, 20.44E				
	02.01.2015			Spain, Valencia, Beniganim, El Port	38.58N, 0.26W	x	3758 days, 2403 km, 222°		
TA 80347	20.04.2013	I	5	Russia, Fringilla	55.05N, 20.44E				
	31.10.2016			Spain, Guipuzcoa, Eskoriatza	47.58N, 2.30W	+	1290 days, 1790 km, 244°		

TA 82262	25.09.2013	I	3	Russia, Rybachy	55.09N, 20.51E	+	1145 days, 2133 km, 224°	
	13.11.2016			Spain, Catalonia, Provincia de Lérida, Juncosa	41.22N, 0.46E			
TA 82770	06.05.2015	I	5	Russia, Rybachy	55.09N, 20.51E	+	248 days, 2926 km, 225°	
	09.01.2016			Spain, Cádiz, San Juan Del Valle	36.41N, 6.08W			
12020. <i>Turdus viscivorus</i>, Mistle Thrush (1)								
P 603939	13.10.1987	I	3	Russia, Fringilla	55.05N, 20.44E		00 days, 57 km, 191°	
	(27.10.2016)			Russia, Kaliningrad reg., Bagrationovsk, Nivenskoye	54.35N, 20.34E	r		
12500. <i>Acrocephalus palustris</i>, Marsh Warbler (1)								
XR 47271	23.07.2014	I	3	Russia, Rybachy	55.09N, 20.51E			
	09.07.2016	M	6	Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E	V	717 days, 31 km, 45°	
12510. <i>Acrocephalus scirpaceus</i>, Reed Warbler (1)								
XR 56927	22.05.2015	I	4	Russia, Rybachy	55.09N, 20.51E			
	25.05.2016	I	6	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	369 days, 44 km, 22°	
12740. <i>Sylvia curruca</i>, Lesser Whitethroat (2)								
XH 38755	03.09.2011	I	3	Russia, Rybachy	55.09N, 20.51E			
	04.05.2016	I	5	Sweden, Blekinge, Utklippan	55.57N, 15.42E	V	1705 days, 336 km, 285°	
XR 74613	04.08.2015	I	3	Russia, Rybachy	55.09N, 20.51E			
	14.05.2016	F		Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E	V	284 days, 31 km, 45°	
	02.06.2016	F		Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E	V	303 days, 31 km, 45°	
12760. <i>Sylvia borin</i>, Garden Warbler (1)								
XH 79357	22.05.2013	I	4	Russia, Rybachy	55.09N, 20.51E			
	19.05.2016			Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E	V	1093 days, 31 km, 45°	
12770. <i>Sylvia atricapilla</i>, Blackcap (1)								
XZ 14011	09.08.2013	M	3	Russia, Fringilla	55.05N, 20.44E			
	24.03.2014			Spain, Andalucía, Malaga, Nerja	36.47N, 3.49W	x	227 days, 2781 km, 223°	
13000. <i>Phylloscopus inornatus</i>, Yellow-browed Warbler (1)								
VF 80099	02.10.2016	I	3	Russia, Fringilla	55.05N, 20.44E			
	08.10.2016			Ireland, Waterford, Brownstown Head	52.07N, 7.05W	V	6 days, 1863 km, 260°	

13120. <i>Phylloscopus trochilus</i>, Willow Warbler (1)									
VN 81901	21.08.2014	M	3	Russia, Fringilla				55.05N, 20.44E	
	13.05.2016			Norway, Hordaland, Bergen, Haukeland				60.22N, 5.27E	xG 631 days, 1080 km, 303°
13140. <i>Regulus regulus</i>, Goldcrest (1)									
VF83443	01.04.2016	M	5	Russia, Rybachy				55.09N, 20.51E	
	29.10.2016	M	4	Germany, Munster, Horstel-Riesenbeck				52.16N, 7.39E	V 211 days, 925 km, 250°
13640. <i>Panurus biarmicus</i>, Bearded Tit (1)									
XZ 80401	27.10.2015	F	2	Russia, Rybachy				55.09N, 20.51E	
	28.03.2016	F	4	Lithuania, Šilute, Ventes Ragas				55.21N, 21.12E	V 153 days, 31 km, 45°
14370. <i>Aegithalos caudatus</i>, Long-tailed Tit (7)									
VF 80627	04.10.2016	I	2	Russia, Fringilla				55.05N, 20.44E	
	11.10.2016			Lithuania, Neringa, Joudkrantes Gaudykle				55.34N, 21.06E	V 7 days, 58 km, 23°
VF 80628	04.10.2016	I	2	Russia, Fringilla				55.05N, 20.44E	
	11.10.2016			Lithuania, Neringa, Joudkrantes Gaudykle				55.34N, 21.06E	V 7 days, 58 km, 23°
VF 80633	04.10.2016	I	2	Russia, Fringilla				55.05N, 20.44E	
	11.10.2016			Lithuania, Neringa, Joudkrantes Gaudykle				55.34N, 21.06E	V 7 days, 58 km, 23°
VF 80634	04.10.2016	I	2	Russia, Fringilla				55.05N, 20.44E	
	11.10.2016			Lithuania, Neringa, Joudkrantes Gaudykle				55.34N, 21.06E	V 7 days, 58 km, 23°
VF 80635	04.10.2016	I	2	Russia, Fringilla				55.05N, 20.44E	
	11.10.2016			Lithuania, Neringa, Joudkrantes Gaudykle				55.34N, 21.06E	V 7 days, 58 km, 23°
VF 88826	07.10.2016	I	3	Russia, Rybachy				55.09N, 20.51E	
	09.10.2016			Lithuania, Neringa, Joudkrantes Gaudykle				55.34N, 21.06E	V 2 days, 49 km, 19°
VF 89665	11.10.2016	I	3	Russia, Rybachy				55.09N, 20.51E	
	14.10.2016			Lithuania, Šilute, Ventes Ragas				55.21N, 21.12E	V 3 days, 31 km, 45°
14610. <i>Parus ater</i>, Coal Tit (1)									
XE 50002	27.05.2016	I	1	Russia, Kaliningrad, Courish Spit				55.03N, 20.41E	
	19.07.2016			Russia, Kaliningrad, Svetlogorsk, Otradnoye				54.56N, 20.06E	+T 53 days, 39 km, 251°
14620. <i>Parus caeruleus</i>, Blue Tit (12)									
XE 44044	19.09.2015	M	4	Russia, Fringilla				55.05N, 20.44E	
	13.03.2016	M	6	Belgium, Liege, Hockai				50.29N, 5.59E	V 176 days, 1115 km, 243°

XE 44194	19.09.2015	M	3	Russia, Fringilla	55.05N, 20.44E	V	179 days, 448 km, 258°
XE 45001	16.03.2016	I	5	Germany, Mecklenburg-Vorpommern, Greifswalder Oie	54.15N, 13.55E	V	
XE 45220	25.09.2015	F	3	Russia, Fringilla	55.05N, 20.44E	V	40 days, 1125 km, 248°
XE 45501	04.11.2015	I	3	Belgium, Antwerpen, Retie	51.16N, 5.05E	V	
XE 45539	26.09.2015	F	3	Russia, Fringilla	55.05N, 20.44E	V	4 days, 113 km, 227°
XE 45540	30.09.2015	F	3	Poland, Pomorskie, Krynica Morska	54.23N, 19.27E	V	
XR 68114	26.09.2015	F	3	Russia, Fringilla	55.05N, 20.44E	V	367 days, 42 km, 45°
XR 79820	27.09.2016	F	4	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	
XX 22645	26.09.2015	F	4	Russia, Fringilla	55.05N, 20.44E	V	44 days, 1202 km, 247°
XZ 80560	09.11.2015	I	4	Belgium, Brabant, Ternat, Vlaams Brabant	50.53N, 4.10E	V	
XZ 82610	26.09.2015	F	3	Russia, Fringilla	55.05N, 20.44E	V	4 days, 113 km, 227°
	30.09.2015	F	3	Poland, Pomorskie, Krynica Morska	54.23N, 19.27E	V	
	24.04.2015	F	5	Russia, Fringilla	55.05N, 20.44E	x	346 days, 689 km, 236°
	04.04.2016	F	5	Germany, Sachsen Anhalt, Radegast	51.39N, 12.05E	x	
	18.04.2016	F	5	Russia, Rybachy	55.09N, 20.51E	V	145 days, 31 km, 45°
	10.09.2016	F	4	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	
	02.10.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	10 days, 113 km, 227°
	12.10.2016	F	3	Poland, Elblag, Krynica Morska, Siekierki	54.23N, 19.27E	V	
	27.03.2016	F	5	Russia, Rybachy	55.09N, 20.51E	V	210 days, 31 km, 45°
	23.10.2016	F	4	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	
	22.09.2016	M	3	Russia, Rybachy	55.09N, 20.51E	V	2 days, 44 km, 22°
	24.09.2016	M	3	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	
14640. <i>Parus major</i>, Great Tit (11)							
XE 44607	22.09.2015	F	3	Russia, Fringilla	55.05N, 20.44E	V	3 days, 117 km, 227°
XE 45921	25.09.2015	F	3	Poland, Pomorskie, Krynica Morska, Siekierki	54.22N, 19.24E	V	
XE 46612	30.09.2015	M	3	Russia, Fringilla	55.05N, 20.44E	V	171 days, 428 km, 252°
	19.03.2016	M	6	Poland, Szczecin, Miedzzydroje, Warnica	53.53N, 14.26E	V	
	04.10.2015	F	3	Russia, Fringilla	55.05N, 20.44E	V	15 days, 300 km, 254°
	19.10.2015	F	3	Poland, Koszalin, Darlowo, Dabkowice	54.20N, 16.15E	V	

XR 61833	05.10.2014	M	3	Russia, Fringilla	55.05N, 20.44E	V	733 days, 118 km, 228°
	07.10.2016	M	3	Poland, Gdansk, Elblag, Mierzeja Wislana, Przebrno	54.22N, 19.22E	V	
XR 64718	13.10.2014	M	3	Russia, Fringilla	55.05N, 20.44E	V	428 days, 436 km, 246°
	15.12.2015	F	3	Poland, Szczecin, Police, Przesocin	53.31N, 14.34E	V	
XX 18391	23.09.2016	M	3	Russia, Fringilla	55.05N, 20.44E	V	116 days, 483 km, 250°
	17.01.2017	M	3	Germany, Mecklenburg-Vorpommern, Kleppelshagen	53.34N, 13.45E	V	
XX 19561	26.09.2016	F	3	Russia, Fringilla	55.05N, 20.44E	xG	58 days, 798 km, 249°
	23.11.2016	F	3	Germany, Niedersachsen, Hannover, Wunstorf	52.28N, 9.25E	xG	
XX 19708	27.09.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	5 days, 109 km, 225°
	02.10.2016	F	4	Poland, Gdansk, Elblag, Krynica Morska, Lesniczowka	54.23N, 19.32E	V	
XX 20750	29.09.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	3 days, 109 km, 225°
	02.10.2016	F	3	Poland, Gdansk, Elblag, Krynica Morska, Lesniczowka	54.23N, 19.32E	V	
XZ 77239	04.10.2016	M	3	Russia, Rybachy	55.09N, 20.51E	V	31 days, 44 km, 22°
	04.11.2016	M	3	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	
XZ 80954	02.04.2016	F	6	Russia, Rybachy	55.09N, 20.51E	V	180 days, 31 km, 45°
	29.09.2016	F	4	Lithuania, Silute, Ventes Ragas	55.21N, 21.12E	V	
15390. Garrulus glandarius, Jay (1)							
M 682603	16.10.1985	I	2	Russia, Fringilla	55.05N, 20.44E		00 days, 160 km, 223°
	01.05.2016–			Poland, Gdansk, Pomorskie, Malbork	54.02N, 19.02E	r	
	31.05.2016						
15820. Sturnus vulgaris, Starling (4)							
TA 82407	10.06.2014	M	3	Russia, Rybachy	55.09N, 20.51E	V	733 days, 31 km, 45°
	12.06.2016	M	4	Lithuania, Silute, Ventes Ragas	55.21N, 21.12E	V	
TA 84585	27.06.2013	M	3	Russia, Fringilla	55.05N, 20.44E	V	1076 days, 42 km, 45°
	07.06.2016	M	6	Lithuania, Silute, Ventes Ragas	55.21N, 21.12E	V	
TC 00152	05.08.2014	M	3	Russia, Fringilla	55.05N, 20.44E	V	658 days, 54 km, 27°
	24.05.2016	M	6	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	
TC 14447	22.06.2016	M	3	Russia, Fringilla	55.05N, 20.44E	+	199 days, 1872 km, 232°
	07.01.2017			France, Aquitaine, Gironde, Pellegrue	44.43N, 0.07E	+	

16360. <i>Fringilla coelebs</i>, Chaffinch (7)									
KS 47803	01.10.2012	F	3	Russia, Fringilla	55.05N, 20.44E	V	770 days, 2557 km, 229°		
	10.11.2014	F	4	Spain, Avila, Candeleda	40.10N, 5.16W				
KS 61704	10.09.2014	M	3	Russia, Rybachy	55.09N, 20.51E	V	569 days, 31 km, 45°		
	01.04.2016	M	6	Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E				
KS 61820	20.04.2015	F	6	Russia, Rybachy	55.09N, 20.51E	V	374 days, 31 km, 45°		
	28.04.2016	F	6	Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E				
KS 66288	07.04.2014	F	6	Russia, Fringilla	55.05N, 20.44E	V	306 days, 2170 km, 227°		
	07.02.2015	F	5	Spain, Zaragoza, Penaflo De Zaragoza	41.46N, 0.48W				
KS 67019	08.06.2014	F	5	Russia, Fringilla	55.05N, 20.44E	V	745 days, 42 km, 45°		
	22.06.2016	F	4	Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E				
KS 67864	28.09.2014	M	4	Russia, Fringilla	55.05N, 20.44E	V	535 days, 1115 km, 243°		
	16.03.2016	M	6	Belgium, Liege, Cokaifagne	50.30N, 5.58E				
XZ 06240	10.10.2012	F	4	Russia, Fringilla	55.05N, 20.44E	x	1582 days, 1112 km, 233°		
	08.02.2017	F	6	Germany, Rheinland-Pfalz, Hirschthal	49.03N, 7.45E				
16380. <i>Fringilla montifringilla</i>, Brambling (1)									
KS 44730	20.04.2012	F	6	Russia, Fringilla	55.05N, 20.44E	V	1346 days, 1138 km, 207°		
	27.12.2015	F	6	Italy, Gorizia & Udine, San Giovanni Al Natisone, Grave	45.58N, 13.23E				
16540. <i>Carduelis spinus</i>, Siskin (5)									
XE 41542	20.08.2015	F	3	Russia, Fringilla	55.05N, 20.44E	V	217 days, 1136 km, 243°		
	24.03.2016	F	6	Belgium, Liege, Chevron	50.23N, 5.44E				
XE 42576	03.09.2015	F	3	Russia, Fringilla	55.05N, 20.44E	V	129 days, 2047 km, 222°		
	10.01.2016	F	3	Spain, Barcelona, Sant Cugat del Valles	41.28N, 2.05E				
XE 51253	25.06.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	105 days, 1396 km, 225°		
	08.10.2016	F	3	Switzerland, Valais, Col de Bretolet	46.09N, 6.48E				
XR 69292	17.06.2015	F	3	Russia, Fringilla	55.05N, 20.44E	V	115 days, 1458 km, 216°		
	10.10.2015	F	4	Italy, Genova, Massa Carrara, Spezia, Mele, M. Ottine	44.29N, 8.45E				
XR 72697	25.06.2015	M	3	Russia, Fringilla	55.05N, 20.44E	V	277 days, 1125 km, 247°		
	28.03.2016	M	6	Belgium, Antwerpen, Balen	51.10N, 5.10E				
16630. <i>Carduelis flammea</i>, Redpoll (1)									
XR 79679	15.04.2016	M	5	Russia, Rybachy	55.09N, 20.51E	V	21 days, 759 km, 305°		
	06.05.2016	F	6	Norway, Vestfold, Store Faerder	59.04N, 10.32E				

2.2. Controls of birds ringed outside of the Courish Spit

05920. <i>Larus argentatus</i>, Herring Gull (1)									
PS00299	Croatia, Zagreb	22.03.2015	I	6	Croatia, Zagreb, Jakusevec	45.45N, 16.01E			
		07.01.2016			Poland, J. Maltanski	52.24N, 16.57E	V		
		10.01.2016			Poland, J. Maltanski	52.24N, 16.57E	V		
		10.04.2016–			Russia, Kaliningrad reg, Courish Spit, 7th km	55.00N, 20.33E	x	00 days, 742 km, 5°	
		20.04.2016							
09920. <i>Hirundo rustica</i>, Swallow (1)									
XE50697	Lithuania, Kaunas	01.09.2015	I	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E			
		20.05.2016	F	4	Russia, Rybachy	55.09N, 20.51E	V	262 days, 31 km, 225°	
10200. <i>Motacilla alba</i>, White Wagtail (1)									
VJ75472	Lithuania, Kaunas	11.07.2016	I	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E			
		28.07.2016	I	3	Russia, Fringilla	55.05N, 20.44E	V	17 days, 43 km, 226°	
10660. <i>Troglodytes troglodytes</i>, Wren (1)									
CS99338	Sweden, Stockholm	06.10.2015	I	3	Sweden, Hallands, Grotvik, Halmstadt	56.39N, 12.47E			
		22.04.2016			Russia, Rybachy	55.09N, 20.51E	V	199 days, 529 km, 108°	
10990. <i>Erithacus rubecula</i>, Robin (2)									
637143H	Finland, Helsinki	25.04.2015	I	5	Finland, Uusimaa, Loviisa, Aspskär	60.15N, 26.25E			
		28.04.2016	I	6	Russia, Rybachy	55.09N, 20.51E	V	369 days, 656 km, 210°	
BE60795	Netherlands, Arnhem	27.10.2015			Netherlands, Noord-Holland, Bloemendaal, Parnassiaweg	52.25N, 4.34E			
		28.04.2016	I	5	Russia, Fringilla	55.05N, 20.44E	V	184 days, 1103 km, 74°	
11870. <i>Turdus merula</i>, Blackbird (1)									
24Z89510	Belgium, Bruxelles	30.10.2015	M		Belgium, Oost-Vlaanderen, Lebbeke	51.00N, 4.08E			
		25.06.2016	M	5	Russia, Fringilla	55.05N, 20.44E	V	239 days, 1198 km, 68°	
12500. <i>Acrocephalus palustris</i>, Marsh Warbler (1)									
VJ44625	Lithuania, Kaunas	02.06.2015	F	5	Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E			
		03.07.2016	M	6	Russia, Rybachy	55.09N, 20.51E	V	397 days, 31 km, 225°	

12510. <i>Acrocephalus scirpaceus</i>, Reed Warbler (1)									
13861157	Belgium, Bruxelles	22.08.2015	I	3	Luxembourg, Schiffflange	49.30N, 6.01E			
		29.05.2016	I	4	Russia, Rybachy	55.09N, 20.51E	V	281 days, 1187 km, 58°	
12530. <i>Acrocephalus arundinaceus</i>, Great Reed Warbler (3)									
CA113497	Croatia, Zagreb	27.08.2014	I	4	Croatia, Pakostane, Vransko lake	43.53N, 15.33E			
		01.05.2016	I	4	Russia, Rybachy	55.09N, 20.51E	V	613 days, 1309 km, 17°	
TA09895	Lithuania, Kaunas	01.05.2016	I	4	Lithuania, Neringa, Juodkrante	55.31N, 21.07E			
		22.05.2016	I	4	Russia, Kaliningrad, Courish Spit	55.09N, 20.49E	V	21 days, 45 km, 205°	
TV14547	Lithuania, Kaunas	26.05.2016	F	4	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E			
		22.06.2016	M	4	Russia, Rybachy	55.09N, 20.51E	V	27 days, 31 km, 225°	
12740. <i>Sylvia curruca</i>, Lesser Whitethroat (2)									
XE68231	Lithuania, Kaunas	03.05.2016	I	4	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E			
		04.05.2016	I	4	Russia, Fringilla	55.05N, 20.44E	V	1 day, 42 km, 225°	
S387477	Slovakia, Bratislava	24.08.2015	I	3	Slovakia, Kosice, Drienovec	48.37N, 20.57E			
		29.04.2016	I	6	Russia, Rybachy	55.09N, 20.51E	V	249 days, 726 km, 359°	
13080. <i>Phylloscopus sibilatrix</i>, Wood Warbler (1)									
KS32392	Slovenia, Ljubljana	25.08.2011	I	3	Slovenia, Nova Gorica, Blije	45.56N, 13.39E			
		30.04.2016	I	4	Russia, Rybachy	55.09N, 20.51E	V	1710 days, 1143 km, 26°	
13110. <i>Phylloscopus collybita</i>, Chiffchaff (2)									
EX4087	Germany, Hiddensee	13.04.2016	I	4	Germany, Mecklenburg-Vorpommern, Greifswalder Oie	54.15N, 13.55E			
		18.04.2016	I	4	Russia, Fringilla	55.05N, 20.44E	V	5 days, 448 km, 78°	
TJ7242	Sweden, Stockholm	27.09.2015	I	3	Sweden, Skane, Bingsmarken, Skurup	55.23N, 13.30E			
		24.04.2016	I	4	Russia, Rybachy	55.09N, 20.51E	V	210 days, 466 km, 93°	
13140. <i>Regulus regulus</i>, Goldcrest (1)									
69311U	Finland, Helsinki	26.09.2014	F	3	Finland, Turku-Pori, Säpi, Luvia	61.29N, 21.21E			
		21.10.2014	F	3	Russia, Fringilla	55.05N, 20.44E	V	25 days, 712 km, 183°	
14370. <i>Aegithalos caudatus</i>, Long-tailed Tit (53)									
XC80597	Estonia, Matsalu	27.09.2016	I	2	Estonia, Pärnu, Kabi	58.01N, 24.27E			
		09.10.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	12 days, 398 km, 215°	

XC82155	Estonia, Matsalu	01.10.2016	I	3	Estonia, Pärnu, Kabi	58.01N, 24.27E	V	5 days, 387 km, 215°
		06.10.2016	I	3	Russia, Rybachy	55.09N, 20.51E	V	
XC82156	Estonia, Matsalu	01.10.2016	I	3	Estonia, Pärnu, Kabi	58.01N, 24.27E	V	5 days, 387 km, 215°
		06.10.2016	I	3	Russia, Rybachy	55.09N, 20.51E	V	
XC82157	Estonia, Matsalu	01.10.2016	I	3	Estonia, Pärnu, Kabi	58.01N, 24.27E	V	5 days, 387 km, 215°
		06.10.2016	I	3	Russia, Rybachy	55.09N, 20.51E	V	
XC82163	Estonia, Matsalu	01.10.2016	I	3	Estonia, Pärnu, Kabi	58.01N, 24.27E	V	5 days, 387 km, 215°
		06.10.2016	I	3	Russia, Rybachy	55.09N, 20.51E	V	
XC82164	Estonia, Matsalu	01.10.2016	I	3	Estonia, Pärnu, Kabi	58.01N, 24.27E	V	5 days, 387 km, 215°
		06.10.2016	I	3	Russia, Rybachy	55.09N, 20.51E	V	
XC82166	Estonia, Matsalu	01.10.2016	I	3	Estonia, Pärnu, Kabi	58.01N, 24.27E	V	5 days, 387 km, 215°
		06.10.2016	I	3	Russia, Rybachy	55.09N, 20.51E	V	
XC82168	Estonia, Matsalu	01.10.2016	I	3	Estonia, Pärnu, Kabi	58.01N, 24.27E	V	5 days, 387 km, 215°
		06.10.2016	I	3	Russia, Rybachy	55.09N, 20.51E	V	
XC82172	Estonia, Matsalu	01.10.2016	I	3	Estonia, Pärnu, Kabi	58.01N, 24.27E	V	5 days, 387 km, 215°
		06.10.2016	I	3	Russia, Rybachy	55.09N, 20.51E	V	
113525	Latvia, Riga	19.09.2016	I	2	Latvia, Liepaja, Pape	56.09N, 21.01E	V	11 days, 120 km, 189°
		30.09.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	
113617	Latvia, Riga	19.09.2016	I	2	Latvia, Liepaja, Pape	56.10N, 21.01E	V	11 days, 122 km, 188°
		30.09.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	
113832	Latvia, Riga	21.09.2016	I	3	Latvia, Liepaja, Pape	56.10N, 21.01E	V	5 days, 122 km, 188°
		26.09.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	
113843	Latvia, Riga	21.09.2016	I	3	Latvia, Liepaja, Pape	56.10N, 21.01E	V	5 days, 122 km, 188°
		26.09.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	
114236	Latvia, Riga	01.10.2016	I	3	Latvia, Liepaja, Pape	56.10N, 21.01E	V	3 days, 113 km, 185°
		04.10.2016	I	3	Russia, Rybachy	55.09N, 20.51E	V	
114264	Latvia, Riga	01.10.2016	I	3	Latvia, Liepaja, Pape	56.10N, 21.01E	V	4 days, 113 km, 185°
		05.10.2016	I	3	Russia, Rybachy	55.09N, 20.51E	V	
XE76605	Lithuania, Kaunas	30.09.2016	I	2	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	3 days, 42 km, 225°
		03.10.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	

XE80651	Lithuania, Kaunas	01.10.2016	I	2	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	2 days, 42 km, 225°
		03.10.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	2 days, 42 km, 225°
XE80864	Lithuania, Kaunas	01.10.2016	I	2	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	3 days, 42 km, 225°
		04.10.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	3 days, 42 km, 225°
XE80962	Lithuania, Kaunas	01.10.2016	I	2	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	2 days, 42 km, 225°
		03.10.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	2 days, 42 km, 225°
XE81286	Lithuania, Kaunas	01.10.2016	I	2	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	2 days, 42 km, 225°
		03.10.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	2 days, 42 km, 225°
XE81325	Lithuania, Kaunas	02.10.2016	I	2	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	1 day, 42 km, 225°
		03.10.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	1 day, 42 km, 225°
XE81879	Lithuania, Kaunas	09.10.2016	I	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	23 days, 31 km, 225°
		01.11.2016	I	3	Russia, Rybachy	55.09N, 20.51E	V	23 days, 31 km, 225°
XE82131	Lithuania, Kaunas	02.10.2016	I	2	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	1 day, 42 km, 225°
		03.10.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	1 day, 42 km, 225°
XE82383	Lithuania, Kaunas	09.10.2016	I	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	1 day, 31 km, 225°
		10.10.2016	I	3	Russia, Rybachy	55.09N, 20.51E	V	1 day, 31 km, 225°
XE82435	Lithuania, Kaunas	09.10.2016	I	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	2 days, 31 km, 225°
		11.10.2016	I	3	Russia, Rybachy	55.09N, 20.51E	V	2 days, 31 km, 225°
XE83629	Lithuania, Kaunas	02.10.2016	I	2	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	1 day, 42 km, 225°
		03.10.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	1 day, 42 km, 225°
XE83843	Lithuania, Kaunas	02.10.2016	I	2	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	1 day, 42 km, 225°
		03.10.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	1 day, 42 km, 225°
XX50151	Lithuania, Kaunas	27.09.2016	I	2	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	2 days, 54 km, 207°
		29.09.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	2 days, 54 km, 207°
XX50220	Lithuania, Kaunas	02.10.2016	I	2	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	1 day, 54 km, 207°
		03.10.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	1 day, 54 km, 207°
XX51288	Lithuania, Kaunas	27.09.2016	I	2	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	2 days, 54 km, 207°
		29.09.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	2 days, 54 km, 207°
XX51290	Lithuania, Kaunas	27.09.2016	I	2	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	2 days, 54 km, 207°
		29.09.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	2 days, 54 km, 207°

XX51330	Lithuania, Kaunas	27.09.2016	I	2	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	4 days, 54 km, 207°
		01.10.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	4 days, 54 km, 207°
XX51380	Lithuania, Kaunas	27.09.2016	I	2	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	3 days, 54 km, 207°
		30.09.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	3 days, 54 km, 207°
XX51404	Lithuania, Kaunas	27.09.2016	I	2	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	3 days, 54 km, 207°
		30.09.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	3 days, 54 km, 207°
XX51463	Lithuania, Kaunas	27.09.2016	I	2	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	2 days, 54 km, 207°
		29.09.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	2 days, 54 km, 207°
XX51531	Lithuania, Kaunas	27.09.2016	I	2	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	4 days, 54 km, 207°
		01.10.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	4 days, 54 km, 207°
XX51532	Lithuania, Kaunas	27.09.2016	I	2	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	4 days, 54 km, 207°
		01.10.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	4 days, 54 km, 207°
XX51534	Lithuania, Kaunas	27.09.2016	I	2	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	4 days, 54 km, 207°
		01.10.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	4 days, 54 km, 207°
XX51560	Lithuania, Kaunas	27.09.2016	I	2	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	2 days, 54 km, 207°
		29.09.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	2 days, 54 km, 207°
XX51563	Lithuania, Kaunas	27.09.2016	I	2	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	2 days, 54 km, 207°
		29.09.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	2 days, 54 km, 207°
XX51564	Lithuania, Kaunas	27.09.2016	I	2	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	2 days, 54 km, 207°
		29.09.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	2 days, 54 km, 207°
XX51567	Lithuania, Kaunas	27.09.2016	I	2	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	2 days, 54 km, 207°
		29.09.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	2 days, 54 km, 207°
XX51571	Lithuania, Kaunas	27.09.2016	I	2	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	2 days, 54 km, 207°
		29.09.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	2 days, 54 km, 207°
XX51576	Lithuania, Kaunas	27.09.2016	I	2	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	2 days, 54 km, 207°
		29.09.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	2 days, 54 km, 207°
XX51596	Lithuania, Kaunas	27.09.2016	I	2	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	4 days, 54 km, 207°
		01.10.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	4 days, 54 km, 207°
XX51634	Lithuania, Kaunas	28.09.2016	I	2	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	3 days, 54 km, 207°
		01.10.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	3 days, 54 km, 207°

XX51786	Lithuania, Kaunas	03.10.2016	I	2	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	2 days, 54 km, 207°	
		05.10.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	2 days, 54 km, 207°	
XX51789	Lithuania, Kaunas	03.10.2016	I	2	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	2 days, 54 km, 207°	
		05.10.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	2 days, 54 km, 207°	
XX51794	Lithuania, Kaunas	03.10.2016	I	2	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	2 days, 54 km, 207°	
		05.10.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	2 days, 54 km, 207°	
XX51807	Lithuania, Kaunas	03.10.2016	I	2	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	2 days, 54 km, 207°	
		05.10.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	2 days, 54 km, 207°	
XX51809	Lithuania, Kaunas	03.10.2016	I	2	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	2 days, 54 km, 207°	
		05.10.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	2 days, 54 km, 207°	
XX51811	Lithuania, Kaunas	03.10.2016	I	2	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	2 days, 54 km, 207°	
		05.10.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	2 days, 54 km, 207°	
XX51825	Lithuania, Kaunas	03.10.2016	I	2	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	2 days, 54 km, 207°	
		05.10.2016	I	2	Russia, Fringilla	55.05N, 20.44E	V	2 days, 54 km, 207°	
14610. <i>Parus ater</i>, Coal Tit (4)									
J187003	Latvia, Riga	25.09.2016	M	3	Latvia, Liepaja, Pape	56.10N, 21.01E	V	2 days, 122 km, 188°	
		27.09.2016	I	3	Russia, Fringilla	55.05N, 20.44E	V	2 days, 122 km, 188°	
J187116	Latvia, Riga	26.09.2016	I	3	Latvia, Liepaja, Pape	56.10N, 21.01E	V	3 days, 122 km, 188°	
		29.09.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	3 days, 122 km, 188°	
J187129	Latvia, Riga	26.09.2016	I	3	Latvia, Liepaja, Pape	56.10N, 21.01E	V	3 days, 122 km, 188°	
		29.09.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	3 days, 122 km, 188°	
XE74524	Lithuania, Kaunas	21.09.2016	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	5 days, 42 km, 225°	
		26.09.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	5 days, 42 km, 225°	
14620. <i>Parus caeruleus</i>, Blue Tit (25)									
14465722	Belgium, Bruxelles	16.11.2015	F	3	Belgium, Antwerpen, Blauberg	51.03N, 4.56E	V	149 days, 1155 km, 67°	
		13.04.2016	F	5	Russia, Rybachy	55.09N, 20.51E	V	149 days, 1155 km, 67°	
VJ77544	Lithuania, Kaunas	12.09.2016	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	3 days, 42 km, 225°	
		15.09.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	3 days, 42 km, 225°	
VJ77784	Lithuania, Kaunas	12.09.2016	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	4 days, 42 km, 225°	
		16.09.2016	M	3	Russia, Fringilla	55.05N, 20.44E	V	4 days, 42 km, 225°	

VJ80019 Lithuania, Kaunas	10.09.2016	M	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E	V	5 days, 42 km, 225°
VJ85603 Lithuania, Kaunas	15.09.2016	M	3	Russia, Fringilla	55.05N, 20.44E	V	5 days, 42 km, 225°
VJ85731 Lithuania, Kaunas	21.09.2016	M	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E	V	2 days, 42 km, 225°
VJ85872 Lithuania, Kaunas	23.09.2016	M	3	Russia, Fringilla	55.05N, 20.44E	V	2 days, 42 km, 225°
VJ86146 Lithuania, Kaunas	21.09.2016	F	4	Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E	V	3 days, 42 km, 225°
VJ86202 Lithuania, Kaunas	24.09.2016	F	4	Russia, Fringilla	55.05N, 20.44E	V	3 days, 42 km, 225°
VJ88155 Lithuania, Kaunas	22.09.2016	M	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E	V	3 days, 42 km, 225°
VJ89388 Lithuania, Kaunas	25.09.2016	M	3	Russia, Fringilla	55.05N, 20.44E	V	3 days, 42 km, 225°
VJ90053 Lithuania, Kaunas	21.09.2016	F	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E	V	5 days, 42 km, 225°
VJ90128 Lithuania, Kaunas	26.09.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	5 days, 42 km, 225°
VJ91105 Lithuania, Kaunas	21.09.2016	M	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E	V	3 days, 42 km, 225°
VJ92112 Lithuania, Kaunas	25.09.2016	M	3	Russia, Fringilla	55.05N, 20.44E	V	3 days, 42 km, 225°
VJ92716 Lithuania, Kaunas	24.09.2016	F	4	Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E	V	1 day, 42 km, 225°
VJ96607 Lithuania, Kaunas	25.09.2016	F	4	Russia, Fringilla	55.05N, 20.44E	V	3 days, 42 km, 225°
VJ96607 Lithuania, Kaunas	23.09.2016	F	4	Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E	V	3 days, 42 km, 225°
VJ96607 Lithuania, Kaunas	26.09.2016	F	4	Russia, Fringilla	55.05N, 20.44E	V	3 days, 42 km, 225°
VJ96607 Lithuania, Kaunas	24.09.2016	M	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E	V	1 day, 42 km, 225°
VJ96607 Lithuania, Kaunas	25.09.2016	M	3	Russia, Fringilla	55.05N, 20.44E	V	1 day, 42 km, 225°
VJ96607 Lithuania, Kaunas	25.09.2016	M	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E	V	6 days, 42 km, 225°
VJ96607 Lithuania, Kaunas	01.10.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	5 days, 42 km, 225°
VJ96607 Lithuania, Kaunas	27.09.2016	F	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E	V	5 days, 42 km, 225°
VJ96607 Lithuania, Kaunas	02.10.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	5 days, 42 km, 225°
VJ96607 Lithuania, Kaunas	30.09.2016	F	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E	V	2 days, 42 km, 225°
VJ96607 Lithuania, Kaunas	02.10.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	2 days, 42 km, 225°
VJ96607 Lithuania, Kaunas	02.10.2016	M	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E	V	1 day, 42 km, 225°
VJ96607 Lithuania, Kaunas	03.10.2016	M	3	Russia, Fringilla	55.05N, 20.44E	V	1 day, 42 km, 225°
VJ96607 Lithuania, Kaunas	16.09.2016	M	3	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	4 days, 54 km, 207°
VJ96607 Lithuania, Kaunas	20.09.2016	M	3	Russia, Fringilla	55.05N, 20.44E	V	4 days, 54 km, 207°

VS25277	Lithuania, Kaunas	25.09.2016	F	3	Lithuania, Neringa, Juodkrante	55.31N, 21.07E			
		01.10.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	6 days, 54 km, 207°	
VS25285	Lithuania, Kaunas	25.09.2016	M	3	Lithuania, Neringa, Juodkrante	55.31N, 21.07E			
		01.10.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	6 days, 54 km, 207°	
VS25291	Lithuania, Kaunas	25.09.2016	M	3	Lithuania, Neringa, Juodkrante	55.31N, 21.07E			
		02.10.2016	M	3	Russia, Fringilla	55.05N, 20.44E	V	7 days, 54 km, 207°	
VS25693	Lithuania, Kaunas	28.09.2016	F	3	Lithuania, Neringa, Juodkrante	55.31N, 21.07E			
		01.10.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	3 days, 54 km, 207°	
VS27980	Lithuania, Kaunas	16.10.2016	M	3	Lithuania, Neringa, Juodkrante	55.31N, 21.07E			
		22.10.2016	M	3	Russia, Rybachy	55.09N, 20.51E	V	6 days, 44 km, 202°	
ZE05599	Lithuania, Kaunas	15.10.2016	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E			
		16.10.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	1 day, 42 km, 225°	
ZE07927	Lithuania, Kaunas	17.10.2016	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E			
		21.10.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	4 days, 42 km, 225°	
14640. <i>Parus major</i>, Great Tit (25)									
38V2607	Belgium, Bruxelles	21.10.2013	M		Belgium, Brabant, Glabbeek, Zuurbemde	50.52N, 4.57E			
		31.03.2016	M	6	Russia, Rybachy	55.09N, 20.51E	V	892 days, 1165 km, 66°	
82102099	Germany, Helgoland	12.03.2016	F	5	Germany, Düsseldorf, Schonholz, Hilden-Haan	51.11N, 6.59E			
		23.10.2016	F	4	Russia, Fringilla	55.05N, 20.44E	V	225 days, 1014 km, 65°	
90447902	Germany, Helgoland	06.02.2016	M	5	Germany, Schleswig-Holstein, Irzehoe, Tonkuhle	53.57N, 9.30E			
		27.03.2016	M	6	Russia, Rybachy	55.09N, 20.51E	V	50 days, 743 km, 80°	
J186703	Latvia, Riga	21.09.2016	M	3	Latvia, Liepaja, Pape	56.10N, 21.01E			
		24.09.2016	M	3	Russia, Rybachy	55.09N, 20.51E	V	3 days, 113 km, 185°	
J187584	Latvia, Riga	13.10.2016	F	3	Latvia, Liepaja, Pape	56.10N, 21.01E			
		23.10.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	10 days, 122 km, 188°	
J201413	Latvia, Riga	01.09.2016	F	3	Latvia, Kegums, Bizgale	56.38N, 24.40E			
		18.09.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	17 days, 300 km, 235°	
VJ74573	Lithuania, Kaunas	25.09.2016	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E			
		27.09.2016	M	3	Russia, Fringilla	55.05N, 20.44E	V	2 days, 42 km, 225°	

VJ92738	Lithuania, Kaunas	30.09.2016	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	1 day, 42 km, 225°
		01.10.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	
VJ94171	Lithuania, Kaunas	29.09.2016	F	4	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	3 days, 42 km, 225°
		02.10.2016	F	4	Russia, Fringilla	55.05N, 20.44E	V	
VJ94961	Lithuania, Kaunas	01.10.2016	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	1 day, 42 km, 225°
		02.10.2016	M	3	Russia, Fringilla	55.05N, 20.44E	V	
VJ96010	Lithuania, Kaunas	01.10.2016	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	1 day, 42 km, 225°
		02.10.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	
VL71385	Lithuania, Kaunas	04.10.2013	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	906 days, 31 km, 225°
		28.03.2016	F	6	Russia, Rybachy	55.09N, 20.51E	V	
VS25374	Lithuania, Kaunas	25.09.2016	F	3	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	4 days, 54 km, 207°
		29.09.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	
VS25380	Lithuania, Kaunas	25.09.2016	F	3	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	V	6 days, 54 km, 207°
		01.10.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	
ZE01107	Lithuania, Kaunas	04.10.2016	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	6 days, 31 km, 225°
		10.10.2016	F	3	Russia, Rybachy	55.09N, 20.51E	V	
ZE02793	Lithuania, Kaunas	15.10.2016	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	2 days, 42 km, 225°
		17.10.2016	M	3	Russia, Fringilla	55.05N, 20.44E	V	
ZE03868	Lithuania, Kaunas	18.10.2016	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	5 days, 42 km, 225°
		23.10.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	
ZE05106	Lithuania, Kaunas	15.10.2016	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	1 day, 42 km, 225°
		16.10.2016	F	4	Russia, Fringilla	55.05N, 20.44E	V	
ZE05355	Lithuania, Kaunas	15.10.2016	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	1 day, 42 km, 225°
		16.10.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	
ZE06299	Lithuania, Kaunas	15.10.2016	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	1 day, 42 km, 225°
		16.10.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	
ZE09091	Lithuania, Kaunas	16.10.2016	F	4	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	7 days, 42 km, 225°
		23.10.2016	F	4	Russia, Fringilla	55.05N, 20.44E	V	
ZE09526	Lithuania, Kaunas	18.10.2016	M	4	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	5 days, 31 km, 225°
		23.10.2016	M	4	Russia, Rybachy	55.09N, 20.51E	V	

K3P2157	Poland, Gdansk	20.03.2016	M	6	Poland, Poznan, Miedzzydroje, Wapnica	53.53N, 14.26E			
		02.10.2016	M	4	Russia, Fringilla	55.05N, 20.44E	V	196 days, 428 km, 72°	
K7N4624	Poland, Gdansk	15.11.2013	F	3	Poland, Warszawa, Brwinow, Otrebusy	52.07N, 20.46E	V		
		22.10.2016	F	4	Russia, Rybachy	55.09N, 20.51E	V	1072 days, 337 km, 1°	
K9N2517	Poland, Gdansk	25.10.2015	F	3	Poland, Gdansk, Mierzeja Wislana-Siekierki	54.22N, 19.24E	V		
		25.10.2016	F	4	Russia, Fringilla	55.05N, 20.44E	V	366 days, 117 km, 47°	
14900. <i>Remiz pendulinus</i>, Penduline Tit (1)									
7685929	France, Paris	18.10.2015	F	3	France, Drome, Cheteauneuf-sur-Isere, Les Iles	45.00N, 4.53E			
		04.06.2016	F	4	Russia, Rybachy	55.09N, 20.51E	V	230 days, 1602 km, 45°	
15820. <i>Sturnus vulgaris</i>, Starling (8)									
KH36295	Lithuania, Kaunas	13.06.2016	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E			
		21.06.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	8 days, 42 km, 225°	
KH41816	Lithuania, Kaunas	17.06.2016	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E			
		29.06.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	12 days, 42 km, 225°	
KH43037	Lithuania, Kaunas	19.06.2016	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E			
		22.06.2016	M	3	Russia, Fringilla	55.05N, 20.44E	V	3 days, 42 km, 225°	
KH43750	Lithuania, Kaunas	19.06.2016	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E			
		21.06.2016	M	3	Russia, Fringilla	55.05N, 20.44E	V	2 days, 42 km, 225°	
KH44840	Lithuania, Kaunas	20.06.2016	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E			
		21.06.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	1 day, 42 km, 225°	
KH45733	Lithuania, Kaunas	20.06.2016	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E			
		22.06.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	2 days, 42 km, 225°	
KN49070	Lithuania, Kaunas	26.06.2016	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E			
		26.06.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	0 day, 42 km, 225°	
KN49087	Lithuania, Kaunas	27.06.2016	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E			
		30.06.2016	M	3	Russia, Fringilla	55.05N, 20.44E	V	3 days, 42 km, 225°	
16360. <i>Fringilla coelebs</i>, Chaffinch (1)									
K1N8980	Poland, Gdansk	24.10.2014	F	4	Poland, Koszalin, Darlowo, Dabkowice	54.20N, 16.15E			
		18.10.2016	F	4	Russia, Fringilla	55.05N, 20.44E	V	725 days, 300 km, 74°	

16540. <i>Carduelis spinus</i>, Siskin (4)									
14168443	Belgium, Bruxelles	23.03.2016	M	6	Belgium, West-Vlaanderen, Zerkegem	51.10N, 3.04E			
		08.04.2016	F	6	Russia, Fringilla	55.05N, 20.44E	V	16 days, 1256 km, 70°	
XE67117	Lithuania, Kaunas	06.04.2016	F	6	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	V	2 days, 42 km, 225°	
		08.04.2016	F	6	Russia, Fringilla	55.05N, 20.44E	V		
CU10234	Sweden, Stockholm	29.07.2014	F	3	Sweden, Västerbottens, Tjulträsk, Ammarnas	65.58N, 16.05E	V	642 days, 1236 km, 168°	
		01.05.2016	F	4	Russia, Fringilla	55.05N, 20.44E	V		
B516968	Switzerland, Sem-pach	20.10.2014	M	3	Switzerland, Vaud, Ollon	46.19N, 7.08E	V	723 days, 1365 km, 44°	
		12.10.2016	M	4	Russia, Fringilla	55.05N, 20.44E	V		
18770. <i>Emberiza schoeniclus</i>, Reed Bunting (1)									
1EP29843	Sweden, Stockholm	12.09.2014	M	3	Sweden, Norrbotten, Sjulnas, Ryggskatan, Pitea	65.20N, 20.26E	V	588 days, 1132 km, 179°	
		22.04.2016	M	4	Russia, Rybachy	55.09N, 20.51E	V		