

Results of bird trapping and ringing by the Biological Station Rybachy on the Courish Spit in 2017

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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 2017.

In 2017, a grand total of 34,268 birds of 103 species were trapped and ringed by the Biological Station Rybachy in the framework of long- and short-term research projects. A total of 1,689 ringed birds of 54 species produced 2,704 recaptures. In 2017, 266 birds of 35 species ringed on the Courish Spit in previous years were retrapped. Between 15.03.2017 and 15.03.2018, 103 birds of 24 species ringed on the Courish Spit were reported as recovered more than 20 km from the ringing site. In 2017, 98 birds of 22 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

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This annual report is the 20th 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 Russian Ringing Centre. 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 avian populations on the Courish Spit of the Baltic Sea (Fringilla field site)

This project has been under way without interruption since 1958 at the Fringilla field site (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. These data have also allowed us to discover the main

factors that affect the underlying trends (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 2017: trap 4 (NE orientation of entrance) from March 31 until September 28, 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 (Rybachy field site)

Cape Rossitten (55°09'N, 20°51'E) 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 2017, 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 2017

Overall, 34,268 birds of 103 species were trapped and ringed by the Biological Station Rybachy in the framework research projects. A total of 18,277 birds of 81 species were trapped and ringed in Rybachy-type traps at Fringilla, and 13,083 birds of 82 species were trapped and ringed in mist nets at Rybachy. In 2017, 483 pulli of 11 species and 50 adults of 6 species were ringed at nests. Finally, 2,375 birds of 68 species were trapped and ringed by other methods in the framework of short-term research projects in 2017, 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 by Rybachy-type traps; (2) trapping figures at Rybachy; (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 2017. Additionally, the grand ringing totals for 1956–2017 are presented for each species.

Numbers of retraps and controls at the place of ringing are presented in first three columns of Tab. 2. A total of 1,689 individuals of 54 species ringed in 2017 produced 2,704 retraps. In addition, 266 controls (35 species) were obtained from birds ringed in previous years.

3. List of long-distance recoveries reported in 2017

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 20 km 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 15.03.2017 and 15.03.2018. 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”, “VP”, “VS”, “VT”, “TA”, “TC”, “XA”, “XB”, “XC”, “XD”, “XE”, “XF”, “XG”, “XH”, “XK”, “XL”, “XN”, “XP”, “XR”, “XS”, “XT”, “XV”, “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 15.03.2017 and 15.03.2018, we received from the Russian Ringing Centre information on 103 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 2017 the station controlled a total of 98 birds of 22 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).

4. Participants

The following members of the Biological Station, students, colleagues and amateur bird ringers participated in bird trapping and ringing in 2017 (listed by alphabetical order): N. Chernetsov, D. Leoke, Y. Loshchagina, M. Markovets, A. Mukhin, M. Parancheva, 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 2017.

EURING code	Species	Rybachy- type traps (Fringilla)	Mist- nets (Ry- bachy)	Nests		Other research projects and methods	Total ringed in 2017	Grand total 1956– 2017
				Nest- lings	Adults			
30	<i>Gavia arctica</i> Black-throated Diver	–	–	–	–	–	–	1
90	<i>Podiceps cristatus</i> Great Crested Grebe	–	–	–	–	–	–	1
720	<i>Phalacrocorax carbo</i> Cormorant	1	–	–	–	–	1	6
950	<i>Botaurus stellaris</i> Bittern	–	–	–	–	–	–	2
980	<i>Ixobrychus minutus</i> Little Bittern	–	–	–	–	–	–	1
1220	<i>Ardea cinerea</i> Grey Heron	–	–	–	–	–	–	375
1340	<i>Ciconia ciconia</i> White Stork	–	–	–	–	–	–	364
1840	<i>Anas crecca</i> Teal	–	–	–	–	–	–	3
1860	<i>Anas platyrhynchos</i> Mallard	–	1	–	–	–	1	6
1910	<i>Anas querquedula</i> Garganey	–	–	–	–	–	–	6
2150	<i>Melanitta fusca</i> Velvet Scoter	–	–	–	–	–	–	1
2310	<i>Pernis apivorus</i> Honey Buzzard	–	–	–	–	–	–	17
2380	<i>Milvus migrans</i> Black Kite	–	–	–	–	–	–	1
2430	<i>Haliaeetus albicilla</i> White-tailed Eagle	–	–	–	–	–	–	1
2600	<i>Circus aeruginosus</i> Marsh Harrier	–	–	–	–	–	–	4
2610	<i>Circus cyaneus</i> Hen Harrier	–	–	–	–	–	–	69
2620	<i>Circus macrourus</i> Pallid Harrier	–	–	–	–	–	–	1

Table 1. *Continued*

EURING code	Species	Rybachy- type traps (Fringilla)	Mist- nets (Rybachy)	Nests		Other research projects and methods	Total ringed in 2017	Grand total 1956– 2017
				Nest- lings	Adults			
2630	<i>Circus pygargus</i> Montagu's Harrier	–	–	–	–	–	–	5
2670	<i>Accipiter gentilis</i> Goshawk	–	–	–	–	–	–	51
2690	<i>Accipiter nisus</i> Sparrowhawk	31	1	–	–	1	33	7583
2870	<i>Buteo buteo</i> Common Buzzard	–	–	–	–	–	–	23
2900	<i>Buteo lagopus</i> Rough-legged Buzzard	–	–	–	–	–	–	2
3040	<i>Falco tinnunculus</i> Kestrel	1	–	–	–	–	1	19
3070	<i>Falco vespertinus</i> Red-footed Falcon	–	–	–	–	–	–	4
3090	<i>Falco columbarius</i> Merlin	–	–	–	–	–	–	36
3100	<i>Falco subbuteo</i> Hobby	–	–	–	–	–	–	15
3200	<i>Falco peregrinus</i> Peregrine	–	–	–	–	–	–	1
3700	<i>Coturnix coturnix</i> Quail	–	–	–	–	–	–	2
4070	<i>Rallus aquaticus</i> Water Rail	–	–	–	–	–	–	22
4080	<i>Porzana porzana</i> Spotted Crane	–	–	–	–	–	–	9
4210	<i>Crex crex</i> Corncrake	–	–	–	–	–	–	17
4240	<i>Gallinula chloropus</i> Moorhen	–	–	–	–	–	–	5
4290	<i>Fulica atra</i> Coot	–	–	–	–	–	–	3
4690	<i>Charadrius dubius</i> Little Ringed Plover	–	–	–	–	–	–	2
4700	<i>Charadrius hiaticula</i> Ringed Plover	–	–	–	–	–	–	3
4930	<i>Vanellus vanellus</i> Lapwing	–	–	–	–	–	–	23

Table 1. *Continued*

EURING code	Species	Rybachy- type traps (Fringilla)	Mist- nets (Ry- bachy)	Nests		Other research projects and methods	Total ringed in 2017	Grand total 1956– 2017
				Nest- lings	Adults			
4960	<i>Calidris canutus</i> Knot	–	–	–	–	–	–	3
4970	<i>Calidris alba</i> Sanderling	–	–	–	–	–	–	6
5010	<i>Calidris minuta</i> Little Stint	–	–	–	–	–	–	1
5120	<i>Calidris alpina</i> Dunlin	–	–	–	–	–	–	7
5170	<i>Philomachus pugnax</i> Ruff	–	–	–	–	–	–	7
5180	<i>Lymnocryptes minima</i> Jack Snipe	–	–	–	–	–	–	18
5190	<i>Gallinago gallinago</i> Snipe	–	1	–	–	–	1	35
5290	<i>Scolopax rusticola</i> Woodcock	–	–	–	–	–	–	220
5410	<i>Numenius arquata</i> Curlew	–	–	–	–	–	–	1
5530	<i>Tringa ochropus</i> Green Sandpiper	–	–	–	–	–	–	22
5540	<i>Tringa glareola</i> Wood Sandpiper	–	–	–	–	–	–	18
5560	<i>Actitis hypoleucos</i> Common Sandpiper	–	–	–	–	–	–	45
5610	<i>Arenaria interpres</i> Turnstone	–	–	–	–	–	–	1
5820	<i>Larus ridibundus</i> Black-headed Gull	–	–	–	–	–	–	42
5900	<i>Larus canus</i> Common Gull	–	–	–	–	–	–	2
5910	<i>Larus fuscus</i> Lesser Black-backed Gull	–	–	–	–	–	–	3
5920	<i>Larus argentatus</i> Herring Gull	–	–	–	–	1	1	2
6000	<i>Larus marinus</i> Great Black-backed Gull	–	–	–	–	–	–	1
6150	<i>Sterna hirundo</i> Common Tern	–	–	–	–	–	–	1

Table 1. *Continued*

EURING code	Species	Rybachy- type traps (Fringilla)	Mist- nets (Rybachy)	Nests		Other research projects and methods	Total ringed in 2017	Grand total 1956– 2017
				Nest- lings	Adults			
6340	<i>Uria aalge</i> Guillemot	–	–	–	–	–	–	1
6650	<i>Columba livia</i> Rock Dove	–	–	–	–	–	–	16
6680	<i>Columba oenas</i> Stock Dove	–	–	–	–	–	–	17
6700	<i>Columba palumbus</i> Woodpigeon	1	–	–	–	–	1	68
6840	<i>Streptopelia decaocto</i> Collared Dove	–	–	–	–	–	–	34
6870	<i>Streptopelia turtur</i> Turtle Dove	–	–	–	–	–	–	125
7240	<i>Cuculus canorus</i> Cuckoo	13	1	–	–	5	19	1660
7350	<i>Tyto alba</i> Barn Owl	–	–	–	–	–	–	7
7500	<i>Surnia ulula</i> Hawk Owl	–	–	–	–	–	–	5
7570	<i>Athene noctua</i> Little Owl	–	–	–	–	–	–	1
7610	<i>Strix aluco</i> Tawny Owl	–	–	–	–	1	1	63
7670	<i>Asio otus</i> Long-eared Owl	3	–	–	–	3	6	3397
7680	<i>Asio flammeus</i> Short-eared Owl	–	–	–	–	–	–	57
7700	<i>Aegolius funereus</i> Tengmalm's Owl	–	–	–	–	–	–	349
7780	<i>Caprimulgus europaeus</i> Nightjar	3	1	–	–	–	4	437
7950	<i>Apus apus</i> Swift	–	–	–	–	–	–	677
8310	<i>Alcedo atthis</i> Kingfisher	–	5	–	–	–	5	250
8410	<i>Coracias garrulus</i> Roller	–	–	–	–	–	–	3
8460	<i>Upupa epops</i> Hoopoe	–	1	–	–	1	2	172

Table 1. *Continued*

EURING code	Species	Rybachy- type traps (Fringilla)	Mist- nets (Rybachy)	Nests		Other research projects and methods	Total ringed in 2017	Grand total 1956– 2017
				Nest- lings	Adults			
8480	<i>Jynx torquilla</i> Wryneck	1	3	–	–	–	4	1209
8550	<i>Picus canus</i> Grey-headed Woodpecker	–	1	–	–	–	1	9
8560	<i>Picus viridis</i> Green Woodpecker	–	–	–	–	–	–	2
8630	<i>Dryocopus martius</i> Black Woodpecker	–	–	–	–	–	–	20
8760	<i>Dendrocopos major</i> Great Spotted Woodpecker	13	4	–	–	4	21	3805
8830	<i>Dendrocopos medius</i> Middle Spotted Woodpecker	1	1	–	–	–	2	79
8840	<i>Dendrocopos leucotos</i> White-backed Woodpecker	–	–	–	–	–	–	4
8870	<i>Dendrocopos minor</i> Lesser Spotted Woodpecker	2	10	–	–	2	14	545
9740	<i>Lullula arborea</i> Woodlark	1	–	–	–	–	1	4786
9760	<i>Alauda arvensis</i> Skylark	–	–	–	–	–	–	488
9780	<i>Eremophilla alpestris</i> Shore Lark	–	–	–	–	–	–	5
9810	<i>Riparia riparia</i> Sand Martin	–	1	–	–	–	1	5146
9920	<i>Hirundo rustica</i> Swallow	61	43	13	–	9	126	12871
10010	<i>Delichon urbica</i> House Martin	10	15	–	–	3	28	8818
10020	<i>Anthus novaseelandiae</i> Richard's Pipit	–	–	–	–	–	–	3
10050	<i>Anthus campestris</i> Tawny Pipit	1	–	–	–	–	1	150
10090	<i>Anthus trivialis</i> Tree Pipit	14	4	–	–	8	26	6250
10110	<i>Anthus pratensis</i> Meadow Pipit	13	–	–	–	–	13	11069

Table 1. *Continued*

EURING code	Species	Rybachy- type traps (Fringilla)	Mist- nets (Ry- bachy)	Nests		Other research projects and methods	Total ringed in 2017	Grand total 1956– 2017
				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	5	21	–	–	–	26	3005
10180	<i>Motacilla citreola</i> Citrine Wagtail	–	–	–	–	–	–	1
10190	<i>Motacilla cinerea</i> Grey Wagtail	–	–	–	–	–	–	13
10200	<i>Motacilla alba</i> White Wagtail	107	78	–	–	4	189	13922
10480	<i>Bombycilla garrulus</i> Waxwing	–	–	–	–	–	–	1355
10500	<i>Cinclus cinclus</i> Dipper	–	–	–	–	–	–	1
10660	<i>Troglodytes troglodytes</i> Wren	216	656	–	–	12	884	16824
10840	<i>Prunella modularis</i> Dunnock	37	195	–	–	5	237	7262
10990	<i>Erithacus rubecula</i> European Robin	1168	3314	–	–	313	4795	210615
11030	<i>Luscinia luscinia</i> Thrush Nightingale	7	64	–	–	4	75	2907
11040	<i>Luscinia megarhynchos</i> Nightingale	–	–	–	–	–	–	1
11060	<i>Luscinia svecica</i> Bluethroat	–	3	–	–	–	3	237
11130	<i>Tarsiger cyanurus</i> Red-flanked Bluetail	–	–	–	–	–	–	3
11210	<i>Phoenicurus ochruros</i> Black Redstart	22	1	–	–	1	24	1719
11220	<i>Phoenicurus phoenicurus</i> Common Redstart	80	125	13	–	34	252	14792
11370	<i>Saxicola rubetra</i> Whinchat	13	3	–	–	3	19	3428
11390	<i>Saxicola torquata</i> Stonechat	–	–	–	–	–	–	3

Table 1. *Continued*

EURING code	Species	Rybachy- type traps (Fringilla)	Mist- nets (Ry- bachy)	Nests		Other research projects and methods	Total ringed in 2017	Grand total 1956– 2017
				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	47	186	4	–	15	252	16363
11980	<i>Turdus pilaris</i> Fieldfare	5	–	–	–	1	6	2573
12000	<i>Turdus philomelos</i> Song Thrush	49	181	–	–	16	246	30549
12010	<i>Turdus iliacus</i> Redwing	6	12	–	–	–	18	6357
12020	<i>Turdus viscivorus</i> Mistle Thrush	3	–	–	–	–	3	321
12360	<i>Locustella naevia</i> Grasshopper Warbler	8	8	–	–	1	17	818
12370	<i>Locustella fluviatilis</i> River Warbler	1	8	–	–	–	9	200
12380	<i>Locustella luscinioides</i> Savi's Warbler	–	1	–	–	–	1	97
12430	<i>Acrocephalus schoenobaenus</i> Sedge Warbler	1	195	–	–	3	199	11797
12470	<i>Acrocephalus agricola</i> Paddyfield Warbler	–	1	–	–	–	1	10
12480	<i>Acrocephalus dumetorum</i> Blyth's Reed Warbler	–	7	–	–	–	7	176
12500	<i>Acrocephalus palustris</i> Marsh Warbler	8	226	–	–	13	247	7785
12510	<i>Acrocephalus scirpaceus</i> Reed Warbler	2	379	29	11	6	427	23899
12530	<i>Acrocephalus arundinaceus</i> Great Reed Warbler	–	43	–	–	8	51	3715
12560	<i>Hippolais caligata</i> Booted Warbler	–	–	–	–	–	–	7
12590	<i>Hippolais icterina</i> Icterine Warbler	60	60	5	–	32	157	12675
12650	<i>Sylvia cantillans</i> Subalpine Warbler	–	–	–	–	–	–	4

Table 1. *Continued*

EURING code	Species	Rybachy- type traps (Fringilla)	Mist- nets (Ry- bachy)	Nests		Other research projects and methods	Total ringed in 2017	Grand total 1956– 2017
				Nest- lings	Adults			
12670	<i>Sylvia melanocephala</i> Sardinian Warbler	–	–	–	–	–	–	1
12730	<i>Sylvia nisoria</i> Barred Warbler	3	7	–	–	1	11	4041
12740	<i>Sylvia curruca</i> Lesser Whitethroat	80	297	–	–	32	409	20904
12750	<i>Sylvia communis</i> Whitethroat	63	136	–	–	14	213	14889
12760	<i>Sylvia borin</i> Garden Warbler	31	234	–	–	60	325	25796
12770	<i>Sylvia atricapilla</i> Blackcap	59	790	–	–	108	957	32410
12930	<i>Phylloscopus trochiloides</i> Greenish Warbler	2	–	–	–	–	2	133
12980	<i>Phylloscopus proregulus</i> Pallas's Warbler	–	–	–	–	–	–	29
13000	<i>Phylloscopus inornatus</i> Yellow-browed Warbler	14	1	–	–	–	15	161
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	68	329	–	–	34	431	18441
13110	<i>Phylloscopus collybita</i> Chiffchaff	509	639	–	–	20	1168	14762
13120	<i>Phylloscopus trochilus</i> Willow Warbler	1216	711	–	–	172	2099	165596
13140	<i>Regulus regulus</i> Goldcrest	5407	2014	–	–	18	7439	412504
13150	<i>Regulus ignicapillus</i> Firecrest	13	42	–	–	1	56	194
13350	<i>Muscicapa striata</i> Spotted Flycatcher	26	87	6	–	54	173	11317

Table 1. *Continued*

EURING code	Species	Rybachy- type traps (Fringilla)	Mist- nets (Ry- bachy)	Nests		Other research projects and methods	Total ringed in 2017	Grand total 1956– 2017
				Nest- lings	Adults			
13430	<i>Ficedula parva</i> Red-breasted Flycatcher	1	14	–	–	8	23	1339
13480	<i>Ficedula albicollis</i> Collared Flycatcher	1	2	–	–	2	5	34
13490	<i>Ficedula hypoleuca</i> Pied Flycatcher	56	274	111	4	95	540	32027
13640	<i>Panurus biarmicus</i> Bearded Tit	–	11	–	–	–	11	544
14370	<i>Aegithalos caudatus</i> Long-tailed Tit	47	93	–	–	2	142	69266
14400	<i>Parus palustris</i> Marsh Tit	13	25	–	–	16	54	2595
14420	<i>Parus montanus</i> Willow Tit	19	–	–	–	4	23	2411
14540	<i>Parus cristatus</i> Crested Tit	6	–	–	–	3	9	858
14610	<i>Parus ater</i> Coal Tit	217	4	43	1	24	289	61541
14620	<i>Parus caeruleus</i> Blue Tit	1310	337	42	4	70	1763	105757
14640	<i>Parus major</i> Great Tit	1912	273	208	14	40	2447	281141
14790	<i>Sitta europaea</i> Nuthatch	–	3	–	–	2	5	436
14860	<i>Certhia familiaris</i> Treetreeper	6	44	–	–	4	54	9874
14870	<i>Certhia brachydactyla</i> Short-toed Treetreeper	1	–	–	–	–	1	19
14900	<i>Remiz pendulinus</i> PendulineTit	10	43	–	–	–	53	1563
15080	<i>Oriolus oriolus</i> Golden Oriole	3	2	–	–	–	5	304
15150	<i>Lanius collurio</i> Red-backed Shrike	10	8	–	–	4	22	3723
15200	<i>Lanius excubitor</i> Great Gray Shrike	–	1	–	–	–	1	117
15390	<i>Garrulus glandarius</i> Jay	62	1	–	–	2	65	6652

Table 1. *Continued*

EURING code	Species	Rybachy- type traps (Fringilla)	Mist- nets (Ry- bachy)	Nests		Other research projects and methods	Total ringed in 2017	Grand total 1956– 2017
				Nest- lings	Adults			
15490	<i>Pica pica</i> Magpie	–	1	–	–	–	1	92
15570	<i>Nucifraga caryocatactes</i> Nutcracker	–	–	–	–	–	–	473
15600	<i>Corvus monedula</i> Jackdaw	–	–	–	–	3	3	85
15630	<i>Corvus frugilegus</i> Rook	–	–	–	–	–	–	60
15672	<i>Corvus corone cornix</i> Hooded Crow	–	–	–	–	1	1	75
15720	<i>Corvus corax</i> Raven	–	–	–	–	–	–	4
15820	<i>Sturnus vulgaris</i> Starling	366	91	–	–	33	490	111287
15910	<i>Passer domesticus</i> House Sparrow	–	–	–	–	17	17	1222
15980	<i>Passer montanus</i> Tree Sparrow	–	1	–	–	1	2	370
16360	<i>Fringilla coelebs</i> Chaffinch	2109	327	9	–	92	2537	777260
16380	<i>Fringilla montifringilla</i> Brambling	402	19	–	–	4	425	75576
16400	<i>Serinus serinus</i> Serin	2	–	–	–	–	2	481
16490	<i>Carduelis chloris</i> Greenfinch	9	17	–	–	4	30	8058
16530	<i>Carduelis carduelis</i> Goldfinch	6	13	–	–	3	22	3176
16540	<i>Carduelis spinus</i> Siskin	1923	53	–	–	531	2507	245387
16600	<i>Carduelis cannabina</i> Linnet	4	1	–	–	–	5	1663
16620	<i>Carduelis flavirostris</i> Twite	–	–	–	–	–	–	32
16630	<i>Carduelis flammea</i> Redpoll	81	74	–	–	17	172	14149

Table 1. *Continued*

EURING code	Species	Rybachy- type traps (Fringilla)	Mist- nets (Rybachy)	Nests		Other research projects and methods	Total ringed in 2017	Grand total 1956– 2017
				Nest- lings	Adults			
16640	<i>Carduelis hornemanni</i> Arctic Redpoll	–	–	–	–	–	–	18
16650	<i>Loxia leucoptera</i> Two-barred Crossbill	–	–	–	–	1	1	26
16660	<i>Loxia curvirostra</i> Common Crossbill	105	–	–	–	362	467	18411
16680	<i>Loxia pytyopsittacus</i> Parrot Crossbill	–	–	–	–	–	–	19
16790	<i>Carpodacus erythrinus</i> Scarlet Rosefinch	6	69	–	–	2	77	7495
16990	<i>Pinicola enucleator</i> Pine Grosbeak	–	–	–	–	–	–	1
17100	<i>Pyrrhula pyrrhula</i> Bullfinch	10	43	–	–	–	53	15393
17170	<i>Coccothraustes coccothraustes</i> Hawfinch	5	7	–	–	14	26	1966
18470	<i>Calcarius lapponicus</i> Lapland Bunting	–	–	–	–	–	–	3
18500	<i>Plectrophenax nivalis</i> Snow Bunting	–	–	–	–	–	–	1
18570	<i>Emberiza citrinella</i> Yellowhammer	60	6	–	–	7	73	4956
18660	<i>Emberiza hortulana</i> Ortolan Bunting	–	–	–	–	–	–	517
18730	<i>Emberiza rustica</i> Rustic Bunting	–	–	–	–	–	–	11
18740	<i>Emberiza pusilla</i> Little Bunting	–	–	–	–	–	–	12
18770	<i>Emberiza schoeniclus</i> Reed Bunting	9	79	–	–	–	88	2978
18810	<i>Emberiza melanocephala</i> Black-headed Bunting	–	–	–	–	–	–	1
18820	<i>Miliaria calandra</i> Corn Bunting	–	–	–	–	–	–	8
Total birds		18277	13083	483	50	2375	34268	305868
Total species		81	82	11	6	68	103	202

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

EURING code	Species	Retraps of birds ringed in 2017		Controls of birds ringed earlier than 2017	Recoveries of our birds outside the Courish Spit	Recoveries of birds ringed outside the Courish Spit
		birds	retraps			
02690	<i>Accipiter nisus</i> Sparrowhawk	2	3	–	2	1
05920	<i>Larus argentatus</i> Herring Gull	–	–	–	–	1
07670	<i>Asio otus</i> Long-eared Owl	–	–	–	1	–
08760	<i>Dendrocopos major</i> Great Spotted Woodpecker	2	3	–	–	–
08870	<i>Dendrocopos minor</i> Lesser Spotted Woodpecker	6	8	1	–	–
09920	<i>Hirundo rustica</i> Swallow	1	2	3	–	2
10050	<i>Anthus campestris</i> Tawny Pipit	–	–	1	–	–
10090	<i>Anthus trivialis</i> Tree Pipit	2	2	2	–	–
10200	<i>Motacilla alba</i> White Wagtail	22	36	6	–	–
10660	<i>Troglodytes troglodytes</i> Wren	55	67	1	–	–
10840	<i>Prunella modularis</i> Dunnock	16	19	–	–	1
10990	<i>Erithacus rubecula</i> European Robin	305	420	2	7	1
11030	<i>Luscinia luscinia</i> Thrush Nightingale	10	54	12	–	–
11210	<i>Phoenicurus ochruros</i> Black Redstart	2	2	–	–	–
11220	<i>Phoenicurus phoenicurus</i> Redstart	19	35	3	1	–
11870	<i>Turdus merula</i> Blackbird	22	35	7	3	–
12000	<i>Turdus philomelos</i> Song Thrush	5	5	2	3	–
12430	<i>Acrocephalus schoenobaenus</i> Sedge Warbler	46	58	2	3	1
12500	<i>Acrocephalus palustris</i> Marsh Warbler	26	44	9	1	1
12510	<i>Acrocephalus scirpaceus</i> Reed Warbler	80	115	10	4	1

Table 2. *Continued*

EURING code	Species	Retraps of birds ringed in 2017		Controls of birds ringed earlier than 2017	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	14	35	6	1	1
12590	<i>Hippolais icterina</i> Icterine Warbler	31	72	3	–	–
12730	<i>Sylvia nisoria</i> Barred Warbler	1	1	1	–	–
12740	<i>Sylvia curruca</i> Lesser Whitethroat	45	85	17	1	2
12750	<i>Sylvia communis</i> Whitethroat	11	20	6	–	–
12760	<i>Sylvia borin</i> Garden Warbler	47	74	24	–	1
12770	<i>Sylvia atricapilla</i> Blackcap	148	222	20	–	1
13080	<i>Phylloscopus sibilatrix</i> Wood Warbler	16	17	–	–	–
13110	<i>Phylloscopus collybita</i> Chiffchaff	76	103	2	1	2
13120	<i>Phylloscopus trochilus</i> Willow Warbler	201	358	54	2	1
13140	<i>Regulus regulus</i> Goldcrest	108	160	–	3	2
13150	<i>Regulus ignicapillus</i> Firecrest	4	11	–	–	–
13350	<i>Muscicapa striata</i> Spotted Flycatcher	–	–	1	–	–
13490	<i>Ficedula hypoleuca</i> Pied Flycatcher	14	17	1	3	–
14370	<i>Aegithalos caudatus</i> Long-tailed Tit	10	10	–	6	1
14400	<i>Parus palustris</i> Marsh Tit	22	56	4	–	–
14420	<i>Parus montanus</i> Willow Tit	6	18	–	–	–
14540	<i>Parus cristatus</i> Crested Tit	2	3	–	–	–
14610	<i>Parus ater</i> Coal Tit	4	4	–	–	–

Table 2. *Continued*

EURING code	Species	Retraps of birds ringed in 2017		Controls of birds ringed earlier than 2017	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	113	220	6	17	30
14640	<i>Parus major</i> Great Tit	94	146	9	19	33
14790	<i>Sitta europaea</i> Nuthatch	2	2	–	–	–
14860	<i>Certhia familiaris</i> Treetreeper	9	14	–	–	–
14900	<i>Remiz pendulinus</i> Penduline	8	10	–	1	–
15390	<i>Garrulus glandarius</i> Jay	2	2	2	–	–
15820	<i>Sturnus vulgaris</i> Starling	7	10	–	4	11
15910	<i>Passer domesticus</i> House Sparrow	1	1	–	–	–
16360	<i>Fringilla coelebs</i> Chaffinch	30	58	40	8	–
16380	<i>Fringilla montifringilla</i> Brambling	1	3	–	–	–
16490	<i>Carduelis chloris</i> Greenfinch	1	1	1	1	1
16530	<i>Carduelis carduelis</i> Goldfinch	–	–	1	–	–
16540	<i>Carduelis spinus</i> Siskin	7	7	–	10	2
16630	<i>Carduelis flammea</i> Redpoll	1	1	–	–	–
16660	<i>Loxia curvirostra</i> Crossbill	3	8	–	1	–
16790	<i>Carpodacus erythrinus</i> Scarlet Rosefinch	4	6	4	–	–
17100	<i>Pyrhula pyrrhula</i> Bullfinch	3	4	–	–	–
17170	<i>Coccothraustes coccothraustes</i> Hawfinch	1	2	–	–	–
18570	<i>Emberiza citrinella</i> Yellowhammer	10	12	1	–	–
18770	<i>Emberiza schoeniclus</i> Reed Bunting	11	23	2	–	1
Total birds		1689	2704	266	103	98
Total species		54	54	35	24	22

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

02690. <i>Accipiter nisus</i>, Sparrowhawk (2)									
M 754787	17.08.2001	F	3	Russia, Fringilla	55.05N, 20.44E	V	4 days, 122 km, 228°		
	21.08.2001	F	3	Poland, Gdansk, Krynica Morska, Skowronki	54.21N, 19.19E				
P 966767	23.10.2001	M	3	Russia, Fringilla	55.05N, 20.44E	V	3 days, 122 km, 228°		
	26.10.2001	M	3	Poland, Gdansk, Krynica Morska, Skowronki	54.21N, 19.19E				
07670. <i>Asio otus</i>, Long-eared Owl (1)									
C 503281	13.10.2004	F	3	Russia, Fringilla	55.05N, 20.44E	r	00 days, 33 km, 223°		
	28.05.2017			Russia, Kaliningrad, Zelenogradsk, Nizovka	54.52N, 20.23E				
10990. <i>Erithacus rubecula</i>, European Robin (7)									
XG02278	24.08.2009	I	3	Russia, Rybachy	55.09N, 20.51E	V	32 days, 1162 km, 249°		
	25.09.2009	I	3	Belgium, Antwerpen, Essen	51.28N, 4.28E				
XR78752	07.10.2015	I	3	Russia, Rybachy	55.09N, 20.51E	+K	534 days, 754 km, 224°		
	24.03.2017	I	6	Czech Republic, Karlovarsky, Vojkovice	50.18N, 13.01E				
XV01171	01.04.2017	I	5	Russia, Rybachy	55.09N, 20.51E	xG	207 days, 1523 km, 226°		
	25.10.2017	I	2	France, Rhone-Alpes, Isere, Chapelle-de-la-Tour	45.35N, 5.28E				
XV03027	13.05.2017	I	6	Russia, Rybachy	55.09N, 20.51E	xG	153 days, 1627 km, 228°		
	13.10.2017	I	2	France, Haute-Loire, Craponne-sur-Arzon	45.20N, 3.51E				
XV10758	18.09.2017	I	3	Russia, Rybachy	55.09N, 20.51E	V	60 days, 2106 km, 217°		
	17.11.2017	I	3	Spain, Menorca, Ferreries	39.58N, 4.02E				
XV12052	06.10.2017	I	3	Russia, Rybachy	55.09N, 20.51E	xG	36 days, 2031 km, 222°		
	11.11.2017	I	2	Spain, Barcelona, L'Ametlla del Valles	41.40N, 2.15E				
XX18718	24.09.2016	I	3	Russia, Fringilla	55.05N, 20.44E	+T	72 days, 1558 km, 225°		
	06.12.2016	I	2	France, Rhone-Alpes, Drome, Chemin du Charvat	45.14N, 5.09E				
11220. <i>Phoenicurus phoenicurus</i>, Common Redstart (1)									
XV06968	06.09.2017	F	3	Russia, Fringilla	55.05N, 20.44E	xA	25 days, 1236 km, 226°		
	01.10.2017			Switzerland, Aargau, Schoftland	47.18N, 8.03E				

11870. <i>Turdus merula</i>, Blackbird (3)									
PB142004	06.10.2015	M	3	Russia, Rybachy	55.09N, 20.51E				
	01.01.2018	M		Germany, Rheinland-Pfalz, Neustadt-Mussbach	49.22N, 8.10E	xG		818 days, 1076 km, 233°	
PB142320	26.07.2016	I	3	Russia, Rybachy	55.09N, 20.51E	V		245 days, 31 km, 45°	
	28.03.2017	F	5	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E				
TC14938	25.10.2016	F	3	Russia, Fringilla	55.05N, 20.44E	I		500 days, 1078 km, 251°	
	09.03.2018	F	6	Netherlands, Gelderland, Beusichem	51.57N, 5.17E				
12000. <i>Turdus philomelos</i>, Song Thrush (3)									
TA32492	13.04.2007	I	5	Russia, Fringilla	55.05N, 20.44E	V		3844 days, 2531 km, 220°	
	21.10.2017	I	3	Spain, Murcia, San Javier, Isla Grosa	37.49N, 0.50W				
TA79724	27.09.2012	I	3	Russia, Fringilla	55.05N, 20.44E	+		1844 days, 1630 km, 220°	
	15.10.2017			France, Bases-Alpes, Moustiers-Sainte-Marie	43.51N, 6.13E				
TA82746	17.04.2015	I	5	Russia, Rybachy	55.09N, 20.51E	+		654 days, 2792 km, 230°	
	30.01.2017	I	6	Portugal, Portalegre, Alter Do Chao	39.10N, 7.40W				
12430. <i>Acrocephalus schoenobaenus</i>, Sedge Warbler (3)									
XH37906	27.07.2011	I	3	Russia, Rybachy	55.09N, 20.51E	V		2121 days, 54 km, 74°	
	17.05.2017	I	4	Lithuania, Šilutės, Sausgalviai	55.17N, 21.40E				
XR75237	04.09.2015	I	3	Russia, Rybachy	55.09N, 20.51E	V		694 days, 1042 km, 200°	
	29.07.2017	I	4	Slovenia, Pradersko, Medvedce	46.22N, 15.39E				
XZ81177	10.07.2016	I	3	Russia, Rybachy	55.09N, 20.51E	V		345 days, 31 km, 45°	
	21.06.2017	I	4	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E				
12500. <i>Acrocephalus palustris</i>, Marsh Warbler (1)									
XZ81353	19.07.2016	I	3	Russia, Rybachy	55.09N, 20.51E	V		338 days, 31 km, 45°	
	22.06.2017	I	4	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E				
12510. <i>Acrocephalus scirpaceus</i>, Reed Warbler (4)									
XV03723	08.06.2017	I	4	Russia, Rybachy	55.09N, 20.51E	V		69 days, 1183 km, 246°	
	16.08.2017	F	4	Belgium, Brabant, Noddebais	50.46N, 4.44E				

XV04137	20.08.2017	I	3	Russia, Rybachy	55.09N, 20.51E				
	02.09.2017	I	2	Belgium, West-Vlaanderen, Korsijde	51.06N, 2.39E	V		13 days, 1294 km, 250°	
XV04876	10.08.2017	I	3	Russia, Rybachy	55.09N, 20.51E	V		12 days, 1096 km, 252°	
	22.08.2017	I	3	Netherlands, Utrecht, Eendenkooi, Haarzuilens	52.08N, 5.00E	V			
XZ82591	22.09.2016	I	3	Russia, Rybachy	55.09N, 20.51E	V		14 days, 1281 km, 219°	
	06.10.2016	I	3	Italy, Como, Sorico, St. Le Della Pancetta	46.11N, 9.25E	V			
12530. <i>Acrocephalus arundinaceus</i>, Great Reed Warbler (1)									
FS27576	21.07.2017	I	3	Russia, Rybachy	55.09N, 20.51E	V		8 days, 31 km, 45°	
	29.07.2017	I	3	Lithuania, Silute, Ventes Ragas	55.21N, 21.12E	V			
12740. <i>Sylvia curruca</i>, Lesser Whitethroat (1)									
XV02883	10.05.2017	I	5	Russia, Rybachy	55.09N, 20.51E	V		13 days, 704 km, 2°	
	23.05.2017	I	4	Finland, Turku-Pori, Luvia, Säppi	61.29N, 21.22E	V			
13110. <i>Phylloscopus collybita</i>, Chiffchaff (1)									
VP11466	14.10.2017	I	2	Russia, Fringilla	55.05N, 20.44E	V		14 days, 1101 km, 203°	
	28.10.2017	I	3	Slovenia, Ljubljana, Crna vas, Kozlarjeva gosca	46.00N, 14.30E	V			
13120. <i>Phylloscopus trochilus</i>, Willow Warbler (2)									
VP02260	24.08.2017	M	3	Russia, Fringilla	55.05N, 20.44E	xG		21 days, 1614 km, 225°	
	14.09.2017	I	2	France, Rhone-Alpes, Drome, Livron-sur-Drome	44.46N, 4.51E	xG			
VP09202	27.08.2017	I	3	Russia, Rybachy	55.09N, 20.51E	xG		29 days, 2119 km, 225°	
	25.09.2017	I	2	Spain, Catalonia, Lerida, Lleida	41.37N, 0.37E	xG			
13140. <i>Regulus regulus</i>, Goldcrest (3)									
VP05352	12.10.2017	M	3	Russia, Fringilla	55.05N, 20.44E	V		11 days, 564 km, 264°	
	23.10.2017	M	3	Denmark, Seeland, Gedser, Falster	54.34N, 11.58E	V			
VP07209	29.03.2017	M	5	Russia, Rybachy	55.09N, 20.51E	V		186 days, 442 km, 333°	
	01.10.2017	M	2	Sweden, Södermanlands, Hartsö, Södra Udden	58.41N, 17.29E	V			
VP10850	11.10.2017	M	4	Russia, Rybachy	55.09N, 20.51E	x		9 days, 363 km, 269°	
	20.10.2017			Denmark, Bornholm, Nexø, Kejsergangen	55.04N, 15.08E	x			

13490. <i>Ficedula hypoleuca</i>, Pied Flycatcher (3)									
RZ020946	16.06.1997	I	1	Russia, Courish Spit	55.08N, 20.42E				
	10.05.1999	M	6	Poland, Gdansk, Jastarnia, Wladyslawowo, Chalupy	54.45N, 18.32E	V		694 days, 145 km, 255°	
VF77619	09.05.2016	M	6	Russia, Fringilla	55.05N, 20.44E	V		485 days, 2022 km, 226°	
	06.09.2017	M	4	Spain, Lerida, Aguiro	42.24N, 0.57E	V			
VP08293	05.05.2017	M	6	Russia, Rybachy	55.09N, 20.51E	+K		8 days, 694 km, 26°	
	13.05.2017			Finland, Uusimaa, Artjärvi, Salmela	60.45N, 26.03E				
14370. <i>Aegithalos caudatus</i>, Long-tailed Tit (6)									
V 004885	08.10.1998	I	2	Russia, Fringilla	55.05N, 20.44E				
Petersburg	30.10.1998	I	3	Poland, Gdansk, Krynica Morska, Skowronki	54.21N, 19.19E	V		22 days, 122 km, 228°	
RZ051693	27.09.2000	I	2	Russia, Fringilla	55.05N, 20.44E	V		2 days, 122 km, 228°	
	29.09.2000	I	3	Poland, Gdansk, Krynica Morska, Skowronki	54.21N, 19.19E	V			
VF79415	27.09.2016	I	2	Russia, Fringilla	55.05N, 20.44E	+T		166 days, 260 km, 233°	
	12.03.2017	I	2	Poland, Gdansk, Chojnice, Niezychowice	53.40N, 17.32E				
VT58779	21.10.2001	I	2	Russia, Fringilla	55.05N, 20.44E	V		3 days, 122 km, 228°	
	24.10.2001	I	3	Poland, Gdansk, Krynica Morska, Skowronki	54.21N, 19.19E	V			
VT58832	22.10.2001	I	2	Russia, Fringilla	55.05N, 20.44E	V		5 days, 122 km, 228°	
	27.10.2001	I	2	Poland, Gdansk, Krynica Morska, Skowronki	54.21N, 19.19E	V			
VT63823	15.10.2001	I	3	Russia, Rybachy	55.09N, 20.51E	V		4 days, 133 km, 228°	
	19.10.2001	I	2	Poland, Gdansk, Krynica Morska, Skowronki	54.21N, 19.19E	V			
14620. <i>Parus caeruleus</i>, Blue Tit (17)									
XE48658	21.04.2016	F	5	Russia, Fringilla	55.05N, 20.44E	V		575 days, 1208 km, 249°	
	17.11.2017	M	4	Belgium, Oost-Vlaanderen, Assenede	51.14N, 3.46E	V			
XE54535	16.09.2016	M	3	Russia, Fringilla	55.05N, 20.44E	xG		166 days, 840 km, 253°	
	01.03.2017			Germany, Weser-Ems, Wildhausen	52.54N, 8.25E				
XE54962	17.09.2016	M	3	Russia, Fringilla	55.05N, 20.44E	V		130 days, 1074 km, 252°	
	25.01.2017	M	5	Netherlands, Utrecht, Driebergen-Rijsenburg	52.03N, 5.17E	V			
XF04669	07.10.2001	F	3	Russia, Fringilla	55.05N, 20.44E	V		9 days, 122 km, 228°	
	16.10.2001	F	3	Poland, Gdansk, Krynica Morska, Skowronki	54.21N, 19.19E	V			

XF08044	12.10.2001	F	3	Russia, Fringilla	55.05N, 20.44E	V	5 days, 122 km, 228°
	17.10.2001	I	3	Poland, Gdansk, Krynica Morska, Skowronki	54.21N, 19.19E		
XN25458	30.05.2007	I	1	Russia, Courish Spit	55.12N, 20.52E	V	178 days, 1158 km, 246°
	24.11.2007	F	3	Belgium, Brabant, Zichem	51.00N, 4.59E		
XN79572	22.09.2007	F	3	Russia, Rybachy	55.09N, 20.51E	V	45 days, 1242 km, 249°
	06.11.2007	I	3	Belgium, Oost-Vlaanderen, Bellem	51.05N, 3.30E		
XP07195	02.09.2008	M	3	Russia, Rybachy	55.09N, 20.51E	V	48 days, 1159 km, 247°
	20.10.2008	M	3	Belgium, Brabant, Masselbroek	51.00N, 4.55E		
XS98577	28.03.2000	F	5	Russia, Rybachy	55.09N, 20.51E	V	556 days, 133 km, 228°
	05.10.2001	F	4	Poland, Gdansk, Krynica Morska, Skowronki	54.21N, 19.19E		
XV04913	26.08.2017	M	3	Russia, Rybachy	55.09N, 20.51E	V	25 days, 44 km, 22°
	20.09.2017	M	3	Lithuania, Neringa, Juodkrante	55.31N, 21.07E		
XV08443	06.10.2017	M	3	Russia, Fringilla	55.05N, 20.44E	V	94 days, 160 km, 249°
	08.01.2018	M	5	Poland, Pomorskie, Gdansk, Rumia	54.34N, 18.24E		
XV10149	06.09.2017	F	3	Russia, Rybachy	55.09N, 20.51E	V	13 days, 31 km, 45°
	19.09.2017	F	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E		
XV12024	05.10.2017	M	4	Russia, Rybachy	55.09N, 20.51E	V	3 days, 31 km, 45°
	08.10.2017	M	4	Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E		
XX18352	22.09.2016	F	4	Russia, Fringilla	55.05N, 20.44E	V	383 days, 42 km, 45°
	10.10.2017	F	4	Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E		
XX25929	31.03.2017	F	5	Russia, Fringilla	55.05N, 20.44E	V	4 days, 58 km, 23°
	04.04.2017	F	5	Lithuania, Neringa, Joudkrant Gaudykle	55.34N, 21.06E		
XZ85175	24.09.2016	F	3	Russia, Rybachy	55.09N, 20.51E	V	8 days, 127 km, 227°
	02.10.2016	M	3	Poland, Gdansk, Mierzeja Wislana-Siekierki	54.22N, 19.24E		
XZ85766	29.09.2016	M	4	Russia, Rybachy	55.09N, 20.51E	V	371 days, 31 km, 45°
	05.10.2017	F	4	Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E		
14640. Parus major, Great Tit (19)							
XE45624	27.09.2015	M	4	Russia, Fringilla	55.05N, 20.44E	V	749 days, 42 km, 45°
	15.10.2017	M	4	Lithuania, Šilute, Ventės Ragas	55.21N, 21.12E		

XE50161	04.06.2016	I	1	Russia, Courish Spit	55.04N, 20.42E	V	290 days, 45 km, 45°
	21.03.2017	M	5	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E		
XE50838	19.09.2016	M	3	Russia, Fringilla	55.05N, 20.44E	V	402 days, 1127 km, 245°
	26.10.2017	M	4	Netherlands, Limburg, Sint Huibrechts-Hern	50.50N, 5.27E		
XF02310	03.10.2001	M	3	Russia, Fringilla	55.05N, 20.44E	V	4 days, 122 km, 228°
	07.10.2001	M	3	Poland, Gdansk, Krynica Morska, Skowronki	54.21N, 19.19E		
XF04110	07.10.2001	F	3	Russia, Fringilla	55.05N, 20.44E	V	6 days, 122 km, 228°
	13.10.2001	F	3	Poland, Gdansk, Krynica Morska, Skowronki	54.21N, 19.19E		
XK55996	16.09.2002	F	3	Russia, Fringilla	55.05N, 20.44E	V	4 days, 122 km, 228°
	20.09.2002	F	3	Poland, Gdansk, Krynica Morska, Skowronki	54.21N, 19.19E		
XR50734	21.09.2014	M	4	Russia, Fringilla	55.05N, 20.44E	V	1168 days, 158 km, 241°
	02.12.2017	M	4	Poland, Gdansk, Oliwa	54.24N, 18.34E		
XT50445	04.04.2001	M	6	Russia, Rybachy	55.09N, 20.51E	V	193 days, 133 km, 228°
	14.10.2001	M	4	Poland, Gdansk, Krynica Morska, Skowronki	54.21N, 19.19E		
XT90290	19.09.2001	F	3	Russia, Fringilla	55.05N, 20.44E	V	3 days, 122 km, 228°
	22.09.2001	F	2	Poland, Gdansk, Krynica Morska, Skowronki	54.21N, 19.19E		
XV02263	29.04.2017	F	5	Russia, Rybachy	55.09N, 20.51E	V	166 days, 31 km, 45°
	12.10.2017	F	4	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E		
XX18465	23.09.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	8 days, 117 km, 227°
	01.10.2016	F	3	Poland, Gdansk, Mierzeja Wislana-Siekierki	54.22N, 19.24E		
XX18805	24.09.2016	F	3	Russia, Fringilla	55.05N, 20.44E	x	189 days, 286 km, 336°
	01.04.2017	F	3	Sweden, Gotland, Katthammarsvik	57.26N, 18.50E		
XX21432	29.09.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	4 days, 117 km, 227°
	03.10.2016	F	3	Poland, Gdansk, Mierzeja Wislana-Siekierki	54.22N, 19.24E		
XX21713	01.10.2016	F	3	Russia, Fringilla	55.05N, 20.44E	x	109 days, 160 km, 240°
	18.01.2017	F	3	Poland, Gdansk, Gdansk-Matemblewo	54.22N, 18.34E		
XX22237	01.10.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	4 days, 117 km, 227°
	05.10.2016	F	3	Poland, Gdansk, Mierzeja Wislana-Siekierki	54.22N, 19.24E		

XX22667	02.10.2016	M	3	Russia, Fringilla	55.05N, 20.44E	V	153 days, 448 km, 258°
	04.03.2017	M	6	Germany, Mecklenburg-Vorpommern, Greifswalder Oie	54.15N, 13.55E		
XX22754	02.10.2016	F	3	Russia, Fringilla	55.05N, 20.44E	V	1 day, 117 km, 227°
	03.10.2016	F	3	Poland, Gdansk, Mierzeja Wislana-Siekierki	54.22N, 19.24E		
XY05910	16.09.2005	M	3	Russia, Fringilla	55.05N, 20.44E	V	41 days, 1206 km, 249°
	27.10.2005	M	3	Belgium, Oost-Vlaanderen, Wachtrebeke	51.10N, 3.52E		
XZ77261	04.10.2016	F	3	Russia, Rybachy	55.09N, 20.51E	V	146 days, 454 km, 245°
	27.02.2017	F	5	Poland, Szczecin	53.25N, 14.31E		
14900. Remiz pendulinus, Penduline Tit (1)							
XV04583	26.07.2017	I	3	Russia, Rybachy	55.09N, 20.51E	V	92 days, 1819 km, 224°
	26.10.2017	M	3	France, Herault, Reserve Naturelle du Bagnas	43.19N, 3.31E		
15820. Sturnus vulgaris, Starling (4)							
TA18447	02.08.2005	F	3	Russia, Rybachy	55.09N, 20.51E	r	4477 days, 46 km, 232°
	04.11.2017			Russia, Kaliningrad, Romanovo	54.54N, 20.17E		
TC00824	19.06.2015	M	3	Russia, Fringilla	55.05N, 20.44E	+M	628 days, 1621 km, 247°
	08.03.2017			France, Manche, Sainte-Marie-du-Mont, L'escalgrain	49.23N, 1.12W		
TC00829	19.06.2015	M	3	Russia, Fringilla	55.05N, 20.44E	V	729 days, 42 km, 45°
	17.06.2017	M	4	Lithuania, Silute, Ventes Ragas	55.21N, 21.12E		
TC02372	26.06.2015	M	3	Russia, Fringilla	55.05N, 20.44E	+	849 days, 1296 km, 250°
	22.10.2017			France, Nord, Ghyvelde	51.03N, 2.31E		
16360. Fringilla coelebs, Chaffinch (8)							
O 514093	20.04.1990	F	5	Russia, Fringilla	55.05N, 20.44E	r	00 days, 177 km, 110°
	06.09.2015			Lithuania, Marijampole	54.33N, 23.20E		
KS48200	03.10.2012	F	4	Russia, Fringilla	55.05N, 20.44E	x	1837 days, 1062 km, 243°
	14.10.2017			Germany, Nordrhein-Westfalen, Duren, Merzenich	50.49N, 6.32E		
KS66222	07.04.2014	F	5	Russia, Fringilla	55.05N, 20.44E	+T	1238 days, 972 km, 28°
	27.08.2017			Finland, Kuopio, Tuusniemi, Paakkila	62.49N, 28.39E		

KS71271	05.06.2016 01.04.2017	M M	5 6	Russia, Fringilla Lithuania, Šilute, Ventes Ragas	55.05N, 20.44E 55.21N, 21.12E	V	300 days, 42 km, 45°	
KS72263	27.09.2016 31.03.2017	F F	3 5	Russia, Fringilla Germany, Mecklenburg-Vorpommern, Greifswalder Oie	55.05N, 20.44E 54.15N, 13.55E	V	185 days, 448 km, 258°	
KS74055	11.10.2016 09.10.2017	M M	4 4	Russia, Rybachy Lithuania, Šilute, Ventes Ragas	55.09N, 20.51E 55.21N, 21.12E	V	363 days, 31 km, 45°	
XT56989	28.06.2001 15.09.2001	F F	3 3	Russia, Fringilla Poland, Gdansk, Krynica Morska, Skowronki	55.05N, 20.44E 54.21N, 19.19E	V	79 days, 122 km, 228°	
XZ06428	10.10.2012 21.09.2017	M M	3 3	Russia, Fringilla Germany, Rheinland-Pfalz, Westerwald, Stiershan	55.05N, 20.44E 50.29N, 7.47E	xA	1807 days, 1009 km, 240°	
16490. <i>Carduelis chloris</i>, Greenfinch (1)								
FS27421	07.06.2016 03.03.2017	F F	6 6	Russia, Rybachy Poland, Poznan, Wolsztyn	55.09N, 20.51E 52.06N, 16.07E	x	269 days, 461 km, 223°	
16540. <i>Carduelis spinus</i>, Siskin (10)								
V 031922 Petersburg	27.09.2001 07.10.2001	M M	3 3	Russia, Fringilla Poland, Gdansk, Krynica Morska, Skowronki	55.05N, 20.44E 54.21N, 19.19E	V	10 days, 122 km, 228°	
XE39723	28.06.2015 20.03.2016	F F	3 5	Russia, Fringilla Belgium, West-Vlaanderen, Varsenare	55.05N, 20.44E 51.11N, 3.08E	V	266 days, 1251 km, 250°	
XE40145	29.06.2015 04.02.2017	M I	3 6	Russia, Fringilla Spain, Baleares, Menorca, Ciutadella	55.05N, 20.44E 40.01N, 3.50E	V	586 days, 2100 km, 217°	
XE40928	07.07.2015 09.03.2018 10.03.2018 12.03.2018	F M M M	3 6 6 6	Russia, Fringilla France, Landes, Pontenx-les-Forges France, Landes, Pontenx-les-Forges France, Landes, Pontenx-les-Forges	55.05N, 20.44E 44.14N, 1.07W 44.14N, 1.07W 44.14N, 1.07W	!	976 days, 1981 km, 232° 977 days, 1981 km, 232° 979 days, 1981 km, 232°	
XE43722	18.09.2015 17.10.2017	F F	3 4	Russia, Fringilla Hungary, Pest, Csobanka	55.05N, 20.44E 47.39N, 18.58E	V	760 days, 835 km, 188°	
XE44931	24.09.2015 09.04.2017	F F	3 4	Russia, Fringilla Estonia, Pärnumaa, Massu	55.05N, 20.44E 58.38N, 24.58E	V	563 days, 471 km, 33°	

XE49192	03.05.2016 28.04.2017	M 5	Russia, Fringilla Finland, Häme, Orivesi, Siitinjärvi	55.05N, 20.44E 61.42N, 24.10E	xG	360 days, 762 km, 15°	
XE49195	03.05.2016 28.06.2017	M I 2	Russia, Fringilla Finland, Vaasa, Kruunupy, Backfolk	55.05N, 20.44E 63.43N, 22.59E	xG	421 days, 968 km, 8°	
XR69104	17.06.2015 10.10.2017	M M 4	Russia, Fringilla Switzerland, Vaud, Col de Jaman	55.05N, 20.44E 46.27N, 6.58E	V	846 days, 1362 km, 225°	
XV05703	15.09.2017 03.03.2018	M 3	Russia, Fringilla Netherlands, Overijssel, Haaksbergen	55.05N, 20.44E 52.13N, 6.45E	V	169 days, 974 km, 251°	
16660. <i>Loxia curvirostra</i>, Common Crossbill (1)							
TC17218	14.06.2017 24.11.2017	M 6	Russia, Fringilla Russia, Kemerovo, Anzhero-Sudzhensk	55.05N, 20.44E 56.05N, 86.01E	C?	163 days, 4101 km, 88°	
2.2. Controls of birds ringed outside the Courish Spit							
02690. <i>Accipiter nisus</i>, Sparrowhawk (1)							
P51186	Latvia, Riga	03.10.2015 02.10.2017	F F 3 4	Latvia, Pape, Liepaja Russia, Fringilla	56.10N, 21.01E 55.05N, 20.44E	V 730 days, 122 km, 188°	
05920. <i>Larus argentatus</i>, Herring Gull (1)							
EN02298 + 7L8A	yellow Lithuania, Kaunas	11.06.2009 01.05.2017	I I 1 1	Lithuania, Kretingos, Kretinga Russia, Rybachy	55.53N, 21.13E 55.09N, 20.51E	x 2881 days, 85 km, 196°	
09920. <i>Hirundo rustica</i>, Swallow (2)							
XE20921	Lithuania, Kaunas	14.07.2014 09.05.2017	I M 1 4	Lithuania, Šilute, Ventes Ragas Russia, Rybachy	55.21N, 21.13E 55.09N, 20.51E	V 1030 days, 32 km, 226°	
XE99016	Lithuania, Kaunas	27.07.2017 08.08.2017	I I 3 3	Lithuania, Šilute, Ventes Ragas Russia, Fringilla	55.21N, 21.13E 55.05N, 20.44E	V 12 days, 43 km, 226°	

10840. <i>Prunella modularis</i>, Duncock (1)						
886033 H Finland, Helsinki	08.09.2017	I	3	Finland, Häme, Tuulos, Kanta-Häme	61.10N, 24.47E	27 days, 707 km, 199°
	05.10.2017	I	3	Russia, Rybachy	55.09N, 20.51E	V
10990. <i>Eriothacus rubecula</i>, European Robin (1)						
B4R5062 Germany, Radolfzell	09.10.2016	I	3	Germany, Saarland, Klein's-Garten Birringen	49.25N, 6.33E	183 days, 1162 km, 57°
	10.04.2017	I	6	Russia, Rybachy	55.09N, 20.51E	V
12430. <i>Acrocephalus schoenobaenus</i>, Sedge Warbler (1)						
K683386 Hungary, Budapest	12.09.2016	I	3	Hungary, Csongrad, Szeged	46.21N, 20.06E	251 days, 979 km, 3°
	21.05.2017	I	4	Russia, Rybachy	55.09N, 20.51E	V
12500. <i>Acrocephalus palustris</i>, Marsh Warbler (1)						
VJ72751 Lithuania, Kaunas	21.05.2016	M	4	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	366 days, 32 km, 226°
	22.05.2017	I	4	Russia, Rybachy	55.09N, 20.51E	V
12510. <i>Acrocephalus scirpaceus</i>, Reed Warbler (1)						
14287989 Belgium, Bruxelles	31.08.2015	I	3	Belgium, Antwerpen, Sint Amands	51.03N, 4.43E	620 days, 1199 km, 68°
	12.05.2017	I	4	Russia, Rybachy	55.09N, 20.51E	V
12530. <i>Acrocephalus arundinaceus</i>, Great Reed Warbler (1)						
TV15133 Lithuania, Kaunas	07.06.2016	M	4	Lithuania, Šilute, Ventes Ragas	55.21N, 21.12E	362 days, 33 km, 228°
	04.06.2017	M	4	Russia, Courish Spit	55.09N, 20.49E	V
12740. <i>Sylvia curruca</i>, Lesser Whitethroat (2)						
849945 H Finland, Helsinki	03.09.2017	I	3	Finland, Uusimaa, Hanko, Tulliniemi	59.49N, 22.54E	13 days, 542 km, 194°
	16.09.2017	I	3	Russia, Fringilla	55.05N, 20.44E	V
XE98076 Lithuania, Kaunas	03.05.2017	I	6	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	1 day, 32 km, 226°
	04.05.2017	I	6	Russia, Rybachy	55.09N, 20.51E	V
12760. <i>Sylvia borin</i>, Garden Warbler (1)						
VJ75374 Lithuania, Kaunas	19.08.2016	I	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	286 days, 32 km, 226°
	01.06.2017	I	4	Russia, Rybachy	55.09N, 20.51E	V

12770. <i>Sylvia atricapilla</i>, Blackcap (1)									
VJ75529	Lithuania, Kaunas	03.07.2016	F	4	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E			423 days, 32 km, 226°
		30.08.2017	F	4	Russia, Rybachy	55.09N, 20.51E	V		
13110. <i>Phylloscopus collybitus</i>, Chiffchaff (2)									
LS6627	Norway, Stavanger	14.09.2017	F	3	Norway, Nordland, Meloy, Spildra	66.52N, 13.44E			28 days, 1362 km, 164°
		12.10.2017			Russia, Fringilla	55.05N, 20.44E	V		
SE9230	Sweden, Stockholm	20.09.2016	I	3	Sweden, Narke, Kvismaren, Rysjon, Orebro	59.11N, 15.23E			192 days, 556 km, 144°
		31.03.2017	I	4	Russia, Rybachy	55.09N, 20.51E	V		
13120. <i>Phylloscopus trochilus</i>, Willow Warbler (1)									
DB19499	Sweden, Stockholm	24.08.2017	I	3	Sweden, Smaland, Lofta, Uknö, Kalmar	57.55N, 16.33E			6 days, 406 km, 141°
		30.08.2017	M	3	Russia, Fringilla	55.05N, 20.44E	V		
13140. <i>Regulus regulus</i>, Goldcrest (2)									
ADA242	Netherlands, Arnhem	22.10.2016	F	3	Netherlands, Flevoland, Luttelgeest	52.47N, 5.49E			
		29.03.2017	F	5	Russia, Rybachy	55.09N, 20.51E	V		
TH4003	Sweden, Stockholm	22.09.2017	M	3	Sweden, Gavle, Gavleborg, Eggegrund	60.44N, 17.33E			34 days, 655 km, 163°
		26.10.2017	M	3	Russia, Fringilla	55.05N, 20.44E	V		
14370. <i>Aegithalos caudatus</i>, Long-tailed Tit (2)									
XP08922	Lithuania, Kaunas	26.10.2004	I	2	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E			
		29.10.2004	I	2	Russia, Fringilla	55.05N, 20.44E	& VD46099	3 days, 43 km, 226°	
XX56901	Lithuania, Kaunas	26.10.2017	I	2	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E			
		27.10.2017	I	2	Russia, Fringilla	55.05N, 20.44E	V	1 day, 43 km, 226°	
14620. <i>Parus caeruleus</i>, Blue Tit (30)									
CB41440	Estonia, Matsalu	24.09.2017	F	3	Estonia, Pärnu, Kabli	58.01N, 24.27E			
		16.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	V	22 days, 398 km, 215°	
VJ92156	Lithuania, Kaunas	27.09.2016	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E			384 days, 43 km, 226°
		16.10.2017	F	4	Russia, Fringilla	55.05N, 20.44E	V		

VJ97317	Lithuania, Kaunas	01.10.2016	M	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	382 days, 43 km, 226°
		18.10.2017	F	4	Russia, Fringilla	55.05N, 20.44E	V
VS31454	Lithuania, Kaunas	20.10.2017	M	3	Lithuania, Neringa, Juodkrante	55.31N, 21.07E	2 days, 54 km, 207°
		22.10.2017	M	4	Russia, Fringilla	55.05N, 20.44E	V
ZE12141	Lithuania, Kaunas	21.10.2016	F	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	362 days, 43 km, 226°
		18.10.2017	F	4	Russia, Fringilla	55.05N, 20.44E	V
ZE24649	Lithuania, Kaunas	13.09.2017	F	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	4 days, 43 km, 226°
		17.09.2017	F	3	Russia, Fringilla	55.05N, 20.44E	V
ZE28703	Lithuania, Kaunas	28.09.2017	F	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	3 days, 43 km, 226°
		01.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	V
ZE35966	Lithuania, Kaunas	06.10.2017	M	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	4 days, 43 km, 226°
		10.10.2017	M	3	Russia, Fringilla	55.05N, 20.44E	V
ZE37537	Lithuania, Kaunas	06.10.2017	F	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	4 days, 43 km, 226°
		10.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	V
ZE37723	Lithuania, Kaunas	06.10.2017	F	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	5 days, 43 km, 226°
		11.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	V
ZE38512	Lithuania, Kaunas	06.10.2017	F	4	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	12 days, 43 km, 226°
		18.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	V
ZE38730	Lithuania, Kaunas	06.10.2017	F	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	4 days, 43 km, 226°
		10.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	V
ZE39571	Lithuania, Kaunas	07.10.2017	F	4	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	9 days, 43 km, 226°
		16.10.2017	F	4	Russia, Fringilla	55.05N, 20.44E	V
ZE40201	Lithuania, Kaunas	06.10.2017	F	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	5 days, 43 km, 226°
		11.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	V
ZE40261	Lithuania, Kaunas	06.10.2017	F	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	12 days, 43 km, 226°
		18.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	V
ZE40354	Lithuania, Kaunas	06.10.2017	F	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	12 days, 43 km, 226°
		18.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	V

ZE41220 Lithuania, Kaunas	06.10.2017	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	5 days, 43 km, 226°
	11.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	V
ZE41255 Lithuania, Kaunas	07.10.2017	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	10 days, 43 km, 226°
	17.10.2017	M	4	Russia, Fringilla	55.05N, 20.44E	V
ZE43167 Lithuania, Kaunas	07.10.2017	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	9 days, 43 km, 226°
	16.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	V
ZE43384 Lithuania, Kaunas	08.10.2017	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	8 days, 43 km, 226°
	16.10.2017	F	4	Russia, Fringilla	55.05N, 20.44E	V
ZE43419 Lithuania, Kaunas	08.10.2017	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	8 days, 43 km, 226°
	16.10.2017	M	3	Russia, Fringilla	55.05N, 20.44E	V
ZE44804 Lithuania, Kaunas	10.10.2017	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	8 days, 43 km, 226°
	18.10.2017	M	3	Russia, Fringilla	55.05N, 20.44E	V
ZE46007 Lithuania, Kaunas	11.10.2017	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	7 days, 43 km, 226°
	18.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	V
ZE46439 Lithuania, Kaunas	15.10.2017	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	3 days, 43 km, 226°
	18.10.2017	M	3	Russia, Fringilla	55.05N, 20.44E	V
ZE46721 Lithuania, Kaunas	15.10.2017	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	3 days, 43 km, 226°
	18.10.2017	M	3	Russia, Fringilla	55.05N, 20.44E	V
ZE48113 Lithuania, Kaunas	15.10.2017	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	3 days, 43 km, 226°
	18.10.2017	M	3	Russia, Fringilla	55.05N, 20.44E	V
ZE48211 Lithuania, Kaunas	15.10.2017	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	3 days, 43 km, 226°
	18.10.2017	M	3	Russia, Fringilla	55.05N, 20.44E	V
ZE48532 Lithuania, Kaunas	15.10.2017	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	3 days, 43 km, 226°
	18.10.2017	M	3	Russia, Fringilla	55.05N, 20.44E	V
ZE49223 Lithuania, Kaunas	15.10.2017	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	3 days, 43 km, 226°
	18.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	V
ZE49319 Lithuania, Kaunas	15.10.2017	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	3 days, 43 km, 226°
	18.10.2017	M	3	Russia, Fringilla	55.05N, 20.44E	V

14640. *Parus major*, Great Tit (33)

59V12603	Belgium, Bruxelles	21.10.2015	M	3	Belgium, Brabant, Testelt	51.00N, 4.56E		163 days, 1149 km, 67°
		01.04.2016	M	5	Russia, Fringilla	55.05N, 20.44E	V	
VJ97377	Lithuania, Kaunas	01.10.2016	M	4	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E		382 days, 43 km, 226°
		18.10.2017	M	4	Russia, Fringilla	55.05N, 20.44E	V	
VL87615	Lithuania, Kaunas	19.10.2013	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E		00 days, 64 km, 226°
		00.10.2014			Russia, Kaliningrad, Zelenogradsk	54.57N, 20.29E	+T	
ZE37486	Lithuania, Kaunas	06.10.2017	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E		4 days, 43 km, 226°
		10.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	V	
ZE37684	Lithuania, Kaunas	06.10.2017	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E		5 days, 43 km, 226°
		11.10.2017	M	4	Russia, Fringilla	55.05N, 20.44E	V	
ZE38314	Lithuania, Kaunas	06.10.2017	M	4	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E		12 days, 43 km, 226°
		18.10.2017	M	4	Russia, Fringilla	55.05N, 20.44E	V	
ZE40131	Lithuania, Kaunas	06.10.2017	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E		6 days, 43 km, 226°
		12.10.2017	M	3	Russia, Fringilla	55.05N, 20.44E	V	
ZE41432	Lithuania, Kaunas	07.10.2017	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E		4 days, 43 km, 226°
		11.10.2017	M	3	Russia, Fringilla	55.05N, 20.44E	V	
ZE42539	Lithuania, Kaunas	10.10.2017	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E		5 days, 32 km, 226°
		15.10.2017	F	3	Russia, Rybachy	55.09N, 20.51E	V	
ZE43094	Lithuania, Kaunas	07.10.2017	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E		11 days, 43 km, 226°
		18.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	V	
ZE43798	Lithuania, Kaunas	15.10.2017	M	4	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E		3 days, 43 km, 226°
		18.10.2017	M	4	Russia, Fringilla	55.05N, 20.44E	V	
ZE44565	Lithuania, Kaunas	10.10.2017	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E		8 days, 43 km, 226°
		18.10.2017	M	3	Russia, Fringilla	55.05N, 20.44E	V	
ZE44926	Lithuania, Kaunas	11.10.2017	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E		7 days, 43 km, 226°
		18.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	V	

ZE46645 Lithuania, Kaunas	15.10.2017	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	3 days, 43 km, 226°
	18.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	
ZE46656 Lithuania, Kaunas	15.10.2017	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	3 days, 43 km, 226°
	18.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	
ZE46861 Lithuania, Kaunas	15.10.2017	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	3 days, 43 km, 226°
	18.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	
ZE47492 Lithuania, Kaunas	15.10.2017	F	4	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	3 days, 43 km, 226°
	18.10.2017	F	4	Russia, Fringilla	55.05N, 20.44E	
ZE47558 Lithuania, Kaunas	15.10.2017	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	3 days, 43 km, 226°
	18.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	
ZE47671 Lithuania, Kaunas	15.10.2017	M	4	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	3 days, 43 km, 226°
	18.10.2017	M	3	Russia, Fringilla	55.05N, 20.44E	
ZE47935 Lithuania, Kaunas	15.10.2017	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	3 days, 43 km, 226°
	18.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	
ZE48031 Lithuania, Kaunas	14.10.2017	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	4 days, 43 km, 226°
	18.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	
ZE48251 Lithuania, Kaunas	15.10.2017	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	3 days, 43 km, 226°
	18.10.2017	M	3	Russia, Fringilla	55.05N, 20.44E	
ZE48262 Lithuania, Kaunas	15.10.2017	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	2 days, 43 km, 226°
	17.10.2017	M	3	Russia, Fringilla	55.05N, 20.44E	
ZE48339 Lithuania, Kaunas	15.10.2017	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	3 days, 43 km, 226°
	18.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	
ZE48367 Lithuania, Kaunas	15.10.2017	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	2 days, 43 km, 226°
	17.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	
ZE48728 Lithuania, Kaunas	17.10.2017	F	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	2 days, 43 km, 226°
	19.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	
ZE49104 Lithuania, Kaunas	15.10.2017	M	3	Lithuania, Šilute, Ventes Ragas	55.21N, 21.13E	5 days, 32 km, 226°
	20.10.2017	M	3	Russia, Rybachy	55.09N, 20.51E	

ZE49185 Lithuania, Kaunas	15.10.2017	M	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	3 days, 43 km, 226°
	18.10.2017	M	3	Russia, Fringilla	55.05N, 20.44E	V
ZE49695 Lithuania, Kaunas	16.10.2017	F	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	2 days, 43 km, 226°
	18.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	V
ZE50201 Lithuania, Kaunas	16.10.2017	F	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	2 days, 43 km, 226°
	18.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	V
ZE50251 Lithuania, Kaunas	16.10.2017	F	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	2 days, 43 km, 226°
	18.10.2017	F	3	Russia, Fringilla	55.05N, 20.44E	V
ZE50260 Lithuania, Kaunas	16.10.2017	F	4	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	2 days, 43 km, 226°
	18.10.2017	F	4	Russia, Fringilla	55.05N, 20.44E	V
ZE51177 Lithuania, Kaunas	16.10.2017	M	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	2 days, 43 km, 226°
	18.10.2017	M	3	Russia, Fringilla	55.05N, 20.44E	V
15820. <i>Sturnus vulgaris</i>, Starling (11)						
KH54952 Lithuania, Kaunas	20.06.2017	M	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	1 day, 43 km, 226°
	21.06.2017	M	3	Russia, Fringilla	55.05N, 20.44E	V
KH55863 Lithuania, Kaunas	18.06.2017	M	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	17 days, 43 km, 226°
	05.07.2017	M	3	Russia, Fringilla	55.05N, 20.44E	V
KH57247 Lithuania, Kaunas	13.06.2017	I	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	8 days, 43 km, 226°
	21.06.2017	M	3	Russia, Fringilla	55.05N, 20.44E	V
KH59137 Lithuania, Kaunas	18.06.2017	M	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	6 days, 43 km, 226°
	24.06.2017	M	3	Russia, Fringilla	55.05N, 20.44E	V
KH60726 Lithuania, Kaunas	20.06.2017	F	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	1 day, 43 km, 226°
	21.06.2017	F	3	Russia, Fringilla	55.05N, 20.44E	V
KH60836 Lithuania, Kaunas	20.06.2017	F	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	1 day, 43 km, 226°
	21.06.2017	F	3	Russia, Fringilla	55.05N, 20.44E	V
KH62391 Lithuania, Kaunas	20.06.2017	F	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	1 day, 43 km, 226°
	21.06.2017	F	3	Russia, Fringilla	55.05N, 20.44E	V

KH64867	Lithuania, Kaunas	24.06.2017	F	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	0 days, 43 km, 226°
		24.06.2017	F	3	Russia, Fringilla	55.05N, 20.44E	V
KH75744	Lithuania, Kaunas	14.07.2017	M	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	3 days, 32 km, 226°
		17.07.2017	M	3	Russia, Rybachy	55.09N, 20.51E	V
KH77166	Lithuania, Kaunas	30.07.2017	F	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	11 days, 43 km, 226°
		10.08.2017	F	3	Russia, Fringilla	55.05N, 20.44E	V
KV87145	Lithuania, Kaunas	15.06.2012	I	3	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	00 days, 58 km, 213°
		01.10.2017			Russia, Kaliningrad, Guryevsk, Vasiljevskoye	54.55N, 20.43E	r
16490. <i>Carduelis chloris</i>, Greenfinch (1)							
ZE16173	Lithuania, Kaunas	24.01.2017	F	5	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	142 days, 43 km, 226°
		15.06.2017	F	6	Russia, Fringilla	55.05N, 20.44E	V
16540. <i>Carduelis spinus</i>, Siskin (2)							
44G603	Italy, Bologna	08.11.2015	M	3	Italy, Brescia, Toscolano-Maderno, Passo Di Spino	45.41N, 10.33E	696 days, 1269 km, 35°
		04.10.2017	M	4	Russia, Fringilla	55.05N, 20.44E	V
XE96195	Lithuania, Kaunas	24.04.2017	M	4	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	0 days, 43 km, 226°
		24.04.2017	M	5	Russia, Fringilla	55.05N, 20.44E	V
18770. <i>Emberiza schoeniclus</i>, Reed Bunting (1)							
ZE16811	Lithuania, Kaunas	02.04.2017	F	4	Lithuania, Šilute, Ventės Ragas	55.21N, 21.13E	25 days, 32 km, 226°
		27.04.2017	F	4	Russia, Rybachy	55.09N, 20.51E	V