

Review and summary of red-footed falcon (*Falco vespertinus*) observations during migration periods in Slovakia

Prehľad a zhrnutie pozorování sokola kobcovitého (*Falco vespertinus*) na Slovensku v migračnom období

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Abstract: The red-footed falcon (*Falco vespertinus*) migrates throughout the territory of Slovakia regularly, though it rarely breeds here. In the present paper we have reviewed and summarised its observations between the years 1905–2016, focusing on the spring and autumn migration periods and its occurrence outside the breeding season. In total, we have gathered the data on 799 observations of 3,717 individuals. Considering the unsystematic data collection, the data should be taken with caution and may rather serve for information purposes only. However, they provide useful basic items of information regarding the species' seasonal dynamics in Slovakia and its phenology, and document the evident increase in the number of individuals observed since 2014.

Abstrakt: Sokol kobcovitý (*Falco vespertinus*) pravidelne migruje cez územie Slovenska, aj keď tu hniezdi len zriedkavo. V tomto príspevku sme zhodnotili a zosumarizovali jeho pozorovania v rokoch 1905 – 2016, pričom sme sa zamerali na jar a jesenné migračné obdobie a tiež na výskyt mimo hniezdneho obdobia. Celkovo sme získali dáta zo 799 pozorování 3717 jedincov. Vzhľadom na nesystematický zber údajov by tieto dáta mali hlavne slúžiť len na informačné účely. Zozbierané údaje však poskytujú užitočné informácie o sezónnej dynamike a fenológii druhu na Slovensku a dokumentujú značný nárast pozorovaného počtu jedincov po roku 2014.

Key words: *Falco vespertinus*, migration, distribution, Slovakia

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Introduction

The red-footed falcon (*Falco vespertinus*) is classified in the territory of Slovakia as a fluctuant species (Danko et al. 1994) which reaches the north-western border of its nesting distribution here, and therefore considerable

changes in the number of nesting pairs are common in this area. This fact is probably also a reason why the estimated numbers of nesting pairs take up a large range: 5–55 pairs in the course of 1973–1977 (Šťastný et al. 1987), and 20–100 pairs in the course of 1980–1999

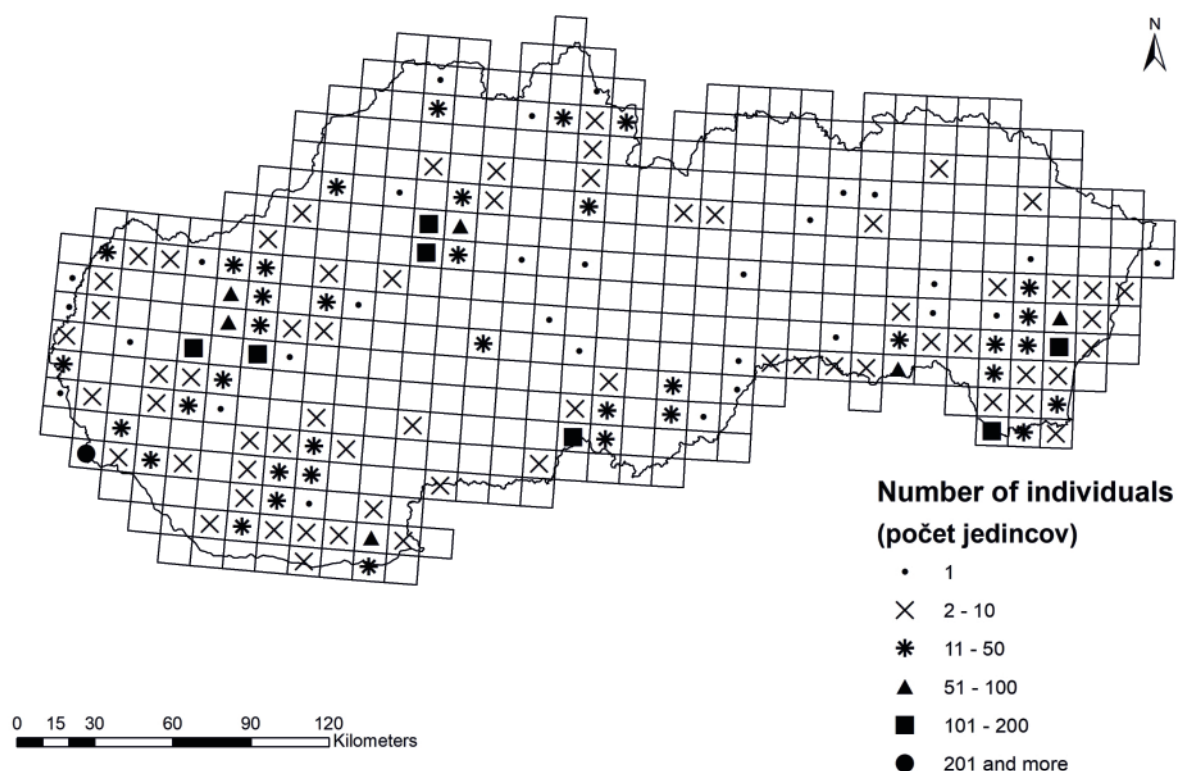


Fig. 1. Distribution of the red-footed falcon during the period of 1905–2016 in Slovakia (3,717 individuals and 799 observation events) within the map squares of the Databank of Slovak Fauna.

Obr. 1. Distribúcia sokola kobcovitého v rokoch 1905 – 2016 na Slovensku (3717 jedincov a 799 pozorovaní) v mapových štvorcoch Databanky fauny Slovenska.

(Danko & Chavko 2002). After 1995 no nesting attempt by the target species was recorded in eastern Slovakia, and the numbers in south-western Slovakia started going down, dropping to no nesting pair in 2012 (Chavko 2013). Currently (2013–2016), 1–16 pairs nest again in the Sysľovské polia SPA (Slobodník et al. 2017).

During migration periods, which take place in spring (April–June) and autumn (July–October), the red-footed falcon occurs in different parts of Slovakia every year independently of the nesting areas in the lowlands of south-western and eastern Slovakia. This species also regularly occurs in higher altitudes over 400 m a.s.l. (e.g. Turiec or Liptov Basins), where it can be seen in high numbers (Slobodník et al. 2016).

Thanks to the fact that the study species is striking, rather easy to identify and highly attractive, there are enough data from the territory of Slovakia, which enables us to quantify its seasonal dynamics, however considering the fact that the data were not collected

with the application of a single method we suggest they may serve for information purposes only. The aim of this contribution was to summarize the historical and recent data about distribution of the red-footed falcon during its migration periods in Slovakia.

Material and methods

The data were collected using publicly-available databases of ornithological observations, mainly www.birding.sk and the Aves database (www.aves.vtaky.sk/sk/zoology). Observers agreed with the publication of their database records. Particular records of observation events with names of researchers are presented in Appendix 1. Part of the data was obtained from the literature (e.g. Ferienc 1941, Matoušek 1950, Salaj 1987, Danko & Chavko 2002, Danko 2008) and the unpublished data were acquired through personal contact with the observers. As mentioned above, the processed data were not obtained by means of a single uniform method

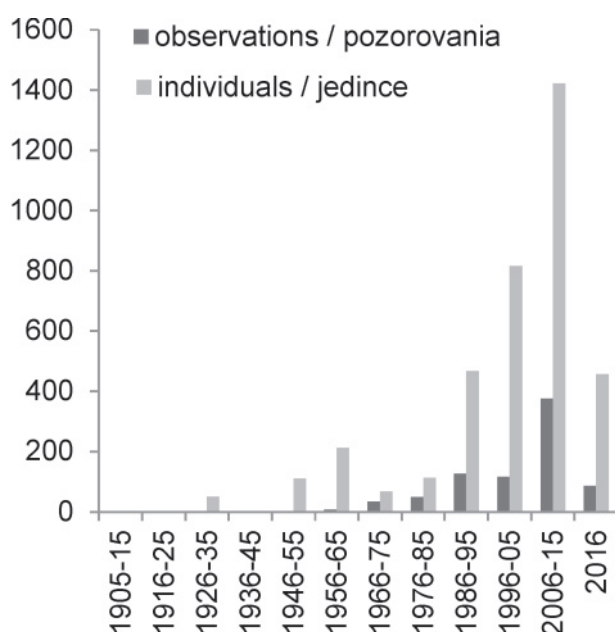


Fig. 2. Number of red-footed falcon individuals and observation events between 1905–2016 ($n = 3,717$ individuals and 799 observation events; grey columns represent numbers of individuals, black columns represent numbers of observation events).

Obr. 2. Počet jedincov a pozorovaní sokola kobcovitého v rokoch 1905 – 2016 ($n = 3717$ jedincov a 799 pozorovaní; sivé stĺpce reprezentujú počet jedincov, čierne stĺpce reprezentujú počet pozorovaní).

(mostly we had to deal with coincidental observations), and only in some cases they were a part of a targeted area and/or species survey. During the data evaluation it was not always possible to separate the observation of migrating individuals from those most probably connected with nesting (mainly if the data were of older date and published with no further details). In some cases of repeated registrations in the same locality, e.g. several days in row, there was the possibility of repeated recording of the same individuals. In this work, we omitted the observations which were unequivocally related to particular nesting pairs from June and July (i.e. incubating and feeding individuals, or juveniles in the nests); however, the August observations from the nesting localities were included in the assessments. Depending on the possibility of age and sex determination, some observed individuals were classified into one of four categories: adult males, adult females, bird in the second calendar year of its life (2 cy) and juveniles. The

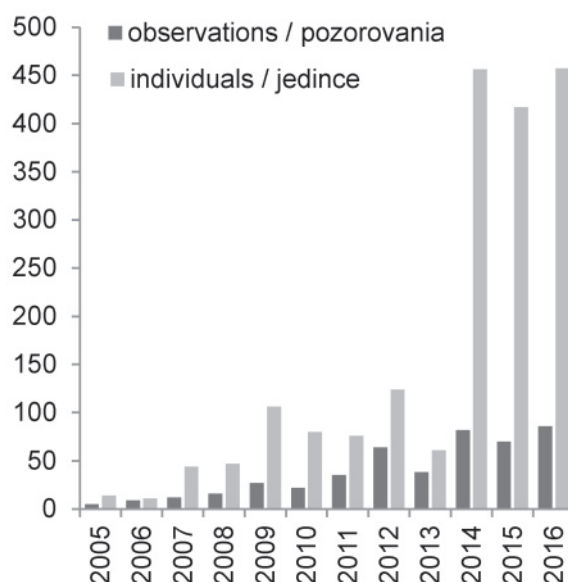


Fig. 3. Number of red-footed falcon individuals and observation events between 2005–2016 ($n = 1,893$ individuals and 466 observation events; grey columns represent numbers of individuals, black columns represent numbers of observation events).

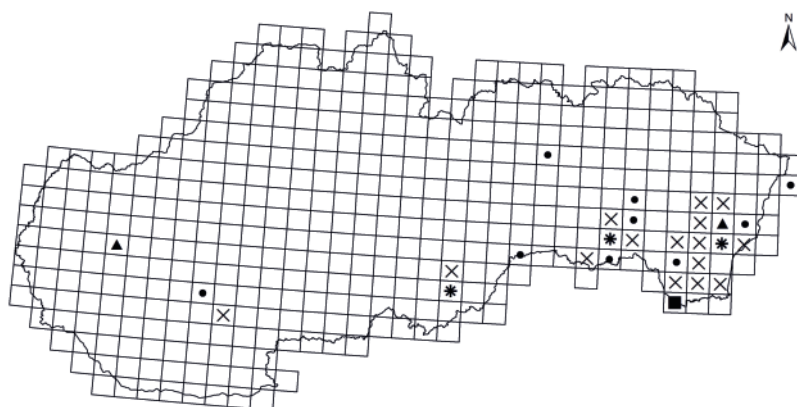
Obr. 3. Počet jedincov a pozorovaní sokola kobcovitého v rokoch 2005 – 2016 ($n = 1893$ jedincov a 466 pozorovaní; sivé stĺpce reprezentujú počet jedincov, čierne stĺpce reprezentujú počet pozorovaní).

maps were processed using the Quantum GIS open source program (www.qgis.org), where we used the Databank of Slovak Fauna (DFS) mapping network for Slovakia (square size = 11.2×12 km) for visualisation of red-footed falcon dispersal. Linear regression was used to find the relationship between the date of red-footed falcon arrival in Slovakia and the mean April temperature in particular years. Due to unsystematic data collection only 33 years were included in this analysis. The data analyses were processed in Statistica 7 (StatSoft 2005). The presented mean temperatures for April were obtained from the nearest meteo stations to the particular locality published on www.ogimet.com.

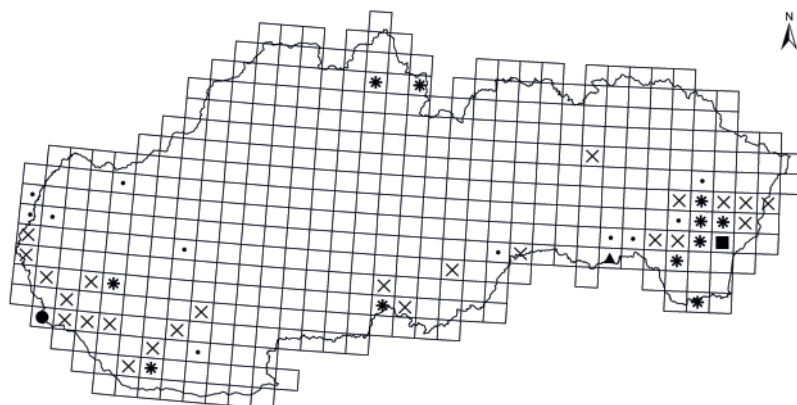
Results

Overall, 799 observations of 3,717 red-footed falcon individuals in the period between the years 1905–2016 were gathered and analysed (Figs. 1 and 2). The occurrence with the highest density is typical for the lowland

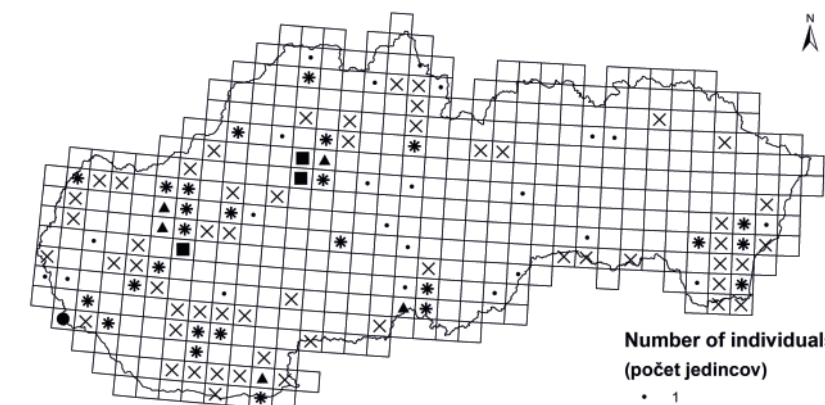
Number of individuals in 1905 - 1980
(počet jedincov v rokoch 1905 - 1980)



Number of individuals in 1981 - 1999
(počet jedincov v rokoch 1981 - 1999)



Number of individuals in 2000 - 2016
(počet jedincov v rokoch 2000 - 2016)



0 15 30 60 90 120
Kilometers

Number of individuals
(počet jedincov)

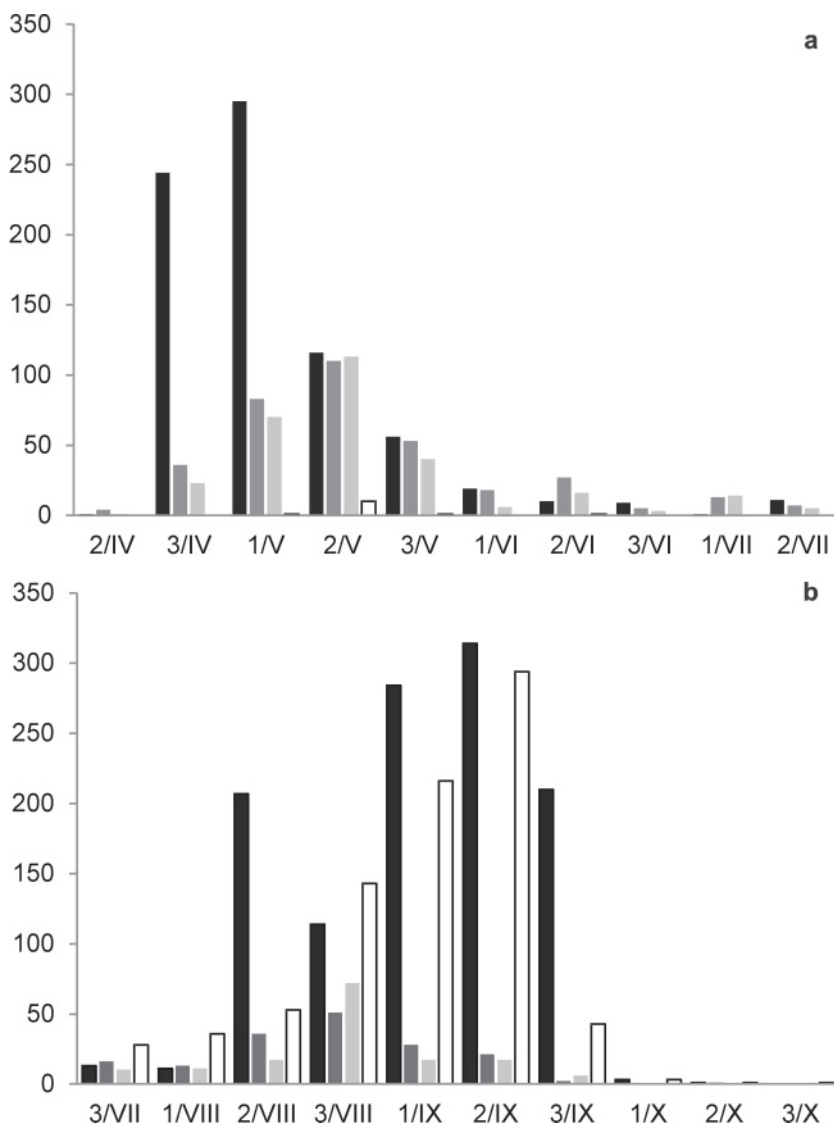
- 1
- × 2 - 10
- * 11 - 50
- ▲ 51 - 100
- 101 - 200
- 201 and more

Fig. 4. Distribution of red-footed falcon individuals over three different time periods (1905–1980, 1981–1999, 2000–2016) within the map squares of the Databank of Slovak Fauna.

Obr. 4. Distribúcia sokola kobcovitého počas 3 časových období (1905 – 1980, 1981 – 1999, 2000 – 2016) v mapových štvorcoch Databanky fauny Slovenska.

Fig. 5. Red-footed falcon age groups during the spring (a) and autumn (b) migration (black columns represent numbers of unidentified birds, dark grey columns represent numbers of adult males, bright grey columns represent numbers of adult females, white columns represent numbers of 2nd calendar year males in part a and numbers of juveniles in part b).

Obr. 5. Vekové skupiny sokola kobcovitého počas jarnej (a) a jesennej (b) migrácie (čierne stĺpce reprezentujú neidentifikované jedince, tmavo sivé stĺpce reprezentujú počet dospelých samcov, svetlo sivé stĺpce reprezentujú počet dospelých samičiek, biele stĺpce reprezentujú počet samcov v druhom kalendárnom roku života kalendárnom roku života v časti a a počet juvenilov v časti b).



agricultural areas in the south-western and south-eastern parts of Slovakia (e.g. Podunajská nížina and Východoslovenská nížina lowlands), where the falcons have sufficient prey and historical breeding places available (Appendix 1).

There can be seen an evident increase in migrating red-footed falcon numbers in Slovakia during the last four years. Between 2010–2013, only 41 observation events per year were registered, but between 2014–2016 there were 82 observation events, which represents an increase of 100%. Differences which were even more substantial may be seen in the number of observed indi-

viduals: between 2010–2013, 85 individuals were observed every year on average, whereas between 2014–2016 the number increased to 443 individuals (Figs. 3 and 4).

Phenological data

The earliest spring observations of the red-footed falcon were made in the second decade of April (two cases), though the first individuals were usually recorded after April 20. The earliest observation was made on April 16, 2007 (B. Maderič in litt.), and two other earliest observations in this year were from April 17 (M. Mojžiš;

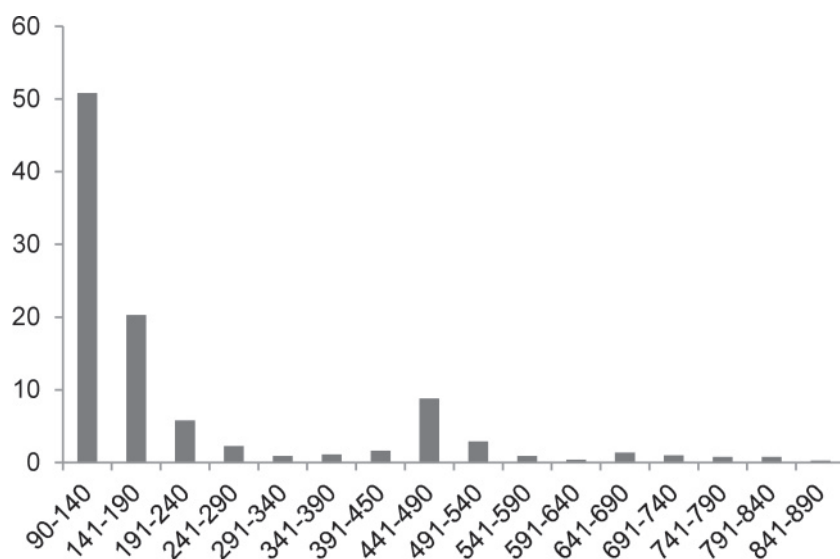


Fig. 7. Hypsometric division (m a.s.l.) of red-footed falcon observations (%) in Slovakia.

Obr. 7. Hypsometrické rozdelenie (m n. m.) pozorovaní sokola kobcovitého (%) na Slovensku.

B. Maderič in litt.). In the northern regions of Slovakia they tend to appear later; the earliest observation from the Turiec Basin was made on April 28, 2013 (M. Dobrota in litt.).

No significant impact of the mean April temperature on the first arrival date of the red-footed falcon in Slovakia was found ($R^2 = 0.036$; $P > 0.05$).

Among the earliest recorded individuals during particular years, males and females were represented almost equally (males 54%; females 46%), and even a pair was observed six times.

In the years of these observations the spring migration usually culminated during the first two decades of May; after that the occurrences in June and July were relatively even (Fig. 5a). In the second decade of August, the onset of red-footed falcon autumn migration was observed with the peak during the first two decades of September (Fig. 5b). Altogether nine observations from October are in a separate dataset, of which eight are from the southern parts of Slovakia. However, one red-footed falcon was observed on October 11, 2015, in the higher-altitude Turiec Basin (M. Dobrota in litt.). The latest record was made on October 27, 1978, when one juvenile was observed in south-eastern Slovakia (Š. Danko in litt.).

Division by gender and age

In the whole data set ($n = 3,717$ individuals), one half was made up of unidentified birds (1,919 individuals, 51.63%); the second most frequent category consisted

of juveniles (818 individuals, 22.01%), then adult males (524 individuals, 14.1%), and finally adult females (441 individuals, 11.86%). Two-year old males were observed only very rarely (13 individuals, 0.35%) (Fig. 5).

Hypsometric division

More than half of all the observations of red-footed falcons were made at altitudes up to 141 m a.s.l. and almost 75% of all cases were made in localities up to 241 m a.s.l. The regular migration stopover of a red-footed falcon in the Turiec Basin represented the only exception from the above-described pattern, and caused a small peak in the altitude interval of 441–490 m a.s.l. (Fig. 6). The highest migration place was recorded on August 22, 2013 at Donovaly at 940 m a.s.l. (S. Ondruš in litt.).

Discussion

The increase in red-footed falcon observations after the year 2014 is evident. The mean number of observations and mainly the mean number of individuals is several times higher than it used to be. Though more nesting pairs were recorded during the last three years of breeding in Slovakia (Slobodník et al. 2017), the overall increase in observation events and observed individuals was most probably caused by or related to the growing population in Hungary (Palatitz et al. 2015).

The state of this raptor population in Slovakia shows a long-term negative trend (Slobodník et al. 2014). The decline has been seen since the 1970s as a consequence

of the destruction of raven (*Corvus frugilegus*) colonies (Danko 1990, 1994, Danko & Chavko 2002) and also due to the falcon population decline in Hungary and Romania (Palatitz et al. 2006). Recently the population in Slovakia has shown a slight increase (Slobodník et al. 2017).

The red-footed falcon was recorded in both historical and current nesting localities, but also in localities where it has probably never nested in the past (e.g. Poprad and Liptov Basins). The regular occurrence in the Turiec Basin during spring and autumn migration is interesting, however nesting has not been confirmed in this locality so far.

Migration of the red-footed falcon has attracted the attention of ornithologists since the species was first identified, and mainly in the years in which mass invasions were recorded, e.g. in August 1900, May 1905, autumn 1925, and September 1927 (Huđec & Ćerný 1977). However, very little specific data are available as yet. An interesting observation by Hrabár (1932) concerns that time period: in the area between Michalovce and Korolev (Romania) he estimated approx. one million individuals. Despite the size of the invasion of the species in the Pannonian area during 1932, the number was most probably overestimated.

Until the 1960s there was a minimum of specific data in the literature; only generalizing pieces of information were published and most of the data were connected with findings of red-footed falcon nestings or nest occurrence (Ferianc 1941). Thereafter, the data on its observation became regular almost yearly, and more than 60% of all observations are from the last 15 years, with observations from 2014–2016 predominating in this period. The higher number of records during recent years may also be the consequence of higher numbers of birdwatchers (Fig. 4).

Migration in Slovakia has a similar course as the migrations in the Czech Republic, though a smaller data set is available for comparison. The data sets on red-footed falcon occurrences/observations in the region of Moravia were summarised by Landsfeld & Šírek (2010), who processed the period between 1999–2009 ($n = 154$ observations, 282 individuals). The earliest observation was made on April 15, 2007, though the locality was situated 150 km northwards from the village of Macov (near the Danube), where the earliest observation in the territory of Slovakia was recorded (April 16, 2007). The autumn migration in Moravia was observed from August until September with the peak in the first half of September. During this migration, ju-

venile individuals prevailed (37%); an almost identical proportion was found in Slovakia as well (38%). The latest migration observations throughout the studied period were made on October 1 and October 2 in 2004.

During the recent period (2014–2016), several observations were published of an unusually high number of migrating red-footed falcons during autumn in Moravia. In 2014, 28 and 58 individuals stayed in the Prostějov district, both observations being from the middle of the second decade of September. In the next year (2015) from August 17 to September 24, they stayed in places with culminating abundance of the common vole (*Microtus arvalis*) in the area of Haná. The maximum number of individuals was observed on September 15, 2015 when more than 50 birds were recorded in the Haná area (Chytil 2015). September is considered as the month with the highest number of registered red-footed falcons also in the eastern part of the Bohemia (Kadava & Vrána 2015). From the whole number of observations from this region (1890–2014, $n = 45$), more than half were made during September 2014. These findings correspond with those from Slovakia, since they confirm the increased abundance in the last few years as well as the culmination of the number in the first two decades of September (Slobodník 2015).

Migration in Hungary has a similar course as well (Palatitz et al. 2015). In Serbia however, the culmination of the number of individuals during the autumn migration usually takes place in the last decade of September (Barna 2015).

Conclusion

The red-footed falcon is a regular migrant in Slovakia. It occurs in most of the territory; in some regions regularly and in some years even in high numbers (some dozens of birds). In total, it has been recorded at about 350 localities in 145 DFS network quadrates, which represents 33.6% of all the quadrates in Slovakia. The spring migration culminates in the first two decades of May, and the autumn one in the first two decades of September.

Since 2014 the increased number of observation events and the number of observed individuals in particular has been noticeable. This most probably correlates with the stabilization and increase of the species abundance at the nesting sites in Hungary.

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Appendix 1. List of red-footed falcon observations recorded in Slovakia between years 1905–2016, listed according to map squares of the Databank of Slovak Fauna.

Appendix 1. Zoznam pozorovaní sokola kobcovitého na Slovensku v rokoch 1905 – 2016 podľa mapových štvorcov Databanky fauny Slovenska.

- 6578:** Čadca, 11.5.2016, 1 ex., Kulla J.;
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