

PHENOLOGICAL ANOMALIES OBSERVED AT THE BIRDS (VERTEBRATA: AVES) FROM DIFFERENT PARTS OF ROMANIA

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Abstract

The paper presents the researches regarding the phenological anomalies observed at the birds from different parts of Romania, during 2015-2020. These anomalies were observed at 42 bird species belonging to 35 generations. The majority of these data are not mentioned in the scientific literature.

Key words: phenological, anomalies, birds, Romania.

INTRODUCTION

The big migrations, the presence of the bird species in nature have always been pursued by both researchers and nature lovers. These anomalies have been observed over time, but, most of the times, they have only been observations, sporadic occurrences.

Recent climatic changes consequences of global warming, have led to an accentuation of these anomalies being able to estimate that if these climatic changes will continue or increase, these anomalies can become processes or phenomena common in nature.

In Romania, data about phenological anomalies of birds have been published sporadically in different articles or specialized books (Ilie 2016, 2016a, 2016b, 2017, 2017a, 2018, 2018a, 2019; Ilie & Ilie, 2018; Ilie, Marinescu, 2019) but a synthesis paper referring exclusively to this topic has not been published so far thus being a national premiere.

MATERIAL AND METHOD

The researches were carried out in different areas of Romania between the years 2015 -2020, during January- December. Some of these observations were made sporadically, spontaneously as they were not the strictly objective of these trips. The observations were made with the help of a 8 X 25 and 20 X 50 binoculars, being supplemented with direct observations. For the identification of species there were used different guides of SOR (1999, 2017).

RESULTS AND DISCUSSION

During 2015-2020 have been observed phenological anomalies of birds to the following species:

- *Pelecanus onocrotalus* Linnaeus, 1758 - one specimen on Rogoaze lake, Râpa (BH), January 10, 2016; six specimens, Tinca (BH), Crișul Negru river, November 19, 2016; one specimen, Tinca (BH), Crișul Negru river, November 23, 2016; one specimen, Rogoaze lake (BH), February 2, 2019. Summer visitor, rarely in winter at national level.
- *Ardeola ralloides* Scopoli, 1769 - one specimen, Tinca spa (BH), near Crișul Negru river, December 15, 2015, t= 150C. Summer visitor in Romania.
- *Ciconia nigra* Linnaeus, 1758 - one specimen, Râpa (BH), January 19, 2017. Summer visitor or passage species in Romania.
- *Cygnus cygnus* Linnaeus, 1758 - seven specimens, Miersig (BH), April 15, 2019. Winter visitor in Romania.
- *Falco vespertinus* Linnaeus, 1758 - two male specimens, Oradea (BH), near airport, February 3, 2015. It is a surprising appearance of this species, because is summer visitor at national level.
- *Falco columbarius* Linnaeus, 1758 - one male specimen, Sinaia (PH), September 14, 2018; one male specimen, Tinca (BH), September 4, 2019. Very early presences, winter visitor in Romania.
- *Buteo rufinus* Cretzschmar, 1829 - two specimens, Tinca (BH), near Crișul Negru river, January 11, 2017; three specimens, Tinca (BH), February 8 and 14, 2017; one specimen, Cheșa (BH), November 12, 2017. Summer visitor in Romania.
- *Circus macrourus* Gmelin, 1776 - one male specimen, Tinca (BH), February 11, 2017. Passage species in Romania.
- *Recurvirostra avosetta* Linnaeus, 1758 - one specimen, Tinca (BH), December 21, 2016; one specimen, Tinca (BH), Crișul Negru river, January 11, 2017.
- *Charadrius dubius* Scopoli, 1786 - one specimen, Tinca (BH), Crișul Negru river, January 9, 2017. Summer visitor or passage species at national level.
- *Himantopus himantopus* Linnaeus, 1758 - two male specimens, Tinca (BH), Crișul Negru river, January 25, 2017. Summer visitor or passage species in Romania.
- *Gelochelidon nilotica* Gmelin, 1789 - one specimen, Tinca (BH), December 27, 2016; one specimen, Gurbediu (BH), December 30, 2016. Summer visitor or passage species in Romania.
- *Apus apus* Linnaeus, 1758 - ten specimens, Tinca (BH), November 3, 2016; two specimens, Cheșa (BH), November 19, 2017; five specimens,

Cheşa (BH), December 14, 2017; twenty specimens, Râpa (BH), February 16, 2019; one specimen, Cheşa (BH), February 25, 2020. Summer visitor species in Romania.

- *Apus pallidus* Shelley, 1870 - one specimen, Cheşa (BH), January 24, 2018. Summer visitor at national level.

- *Apus melba* Linnaeus, 1758 - one specimen, Cheşa (BH), November 19, 2017. Summer visitor in Romania.

- *Hirundo rustica* Linnaeus, 1758 - one specimen, Tinca (BH), November 21, 2015 (probably one of the latest mentions from Romania). Summer visitor in Romania.

- *Ceryle rudis* Linnaeus, 1758 - one specimen, Râpa (BH), February 13, 2018. This is the first mention of this species in winter at national level. Accidental species, very rare in Romania, mentioned in summer at national level (Ilie, 2016).

- *Upupa epops* Linnaeus, 1758 - one specimen, Râpa (BH), February 5, 2016; one specimen (probably the same), Râpa (BH), February 9, 2016; one specimen, Cheşa (BH), March 5, 2020. Summer visitor at national level.

- *Merops apiaster* Linnaeus, 1758 - one specimen, Tinca (BH), October 17, 2016 (probably, the latest mention in Romania); four specimens, Tinca (BH), March 13, 2018. Probably this is the earliest mention of this species in Romania. Generally, the species arrives in Romania in May, being summer visitor.

- *Jynx torquilla* Linnaeus, 1758 - one specimen, Tinca (BH), near protestant church, February 18, 2015; one specimen, Tinca (BH), same place, February 27, 2019. Summer visitor in Romania.

- *Caprimulgus europaeus* Linnaeus, 1758 - one specimen, Cheşa (BH), November 1, 2018 (probably this is the latest mention of this species in Romania, being summer visitor).

- *Ficedula hypoleuca* Pallas, 1764 - one male specimen, Tinca (BH), January 3, 2017; one male specimen, Râpa (BH), January 20, 2017; one male specimen, Tinca (BH), January 25, 2017. Summer visitor or passage species in Romania.

- *Ficedula albicollis* Temminck, 1815 - one male specimen, Cheşa (BH), November 2, 2017. Summer visitor or passage species in Romania. The presence of both species of *Ficedula* genus in winter could be explained by their food: generally - insects but in autumn and in winter - little fruits.

- *Oriolus oriolus* Linnaeus, 1758 - two male specimens, Râpa (BH), February, 10, 2015; two male specimens (probably the same), Râpa (BH), February 22, 2015; one male specimen, Râpa (BH), January 30, 2016; one male specimen, Râpa (BH), December 3, 2016; one male specimen, Tinca (BH), March 8, 2017; one juvenile specimen, Cheşa (BH), November 11, 2017; one male specimen, Gurbediu (BH), November 28, 2017; one

juvenile specimen, Cheşa (BH), December 11, 2017 (the latest mention in Romania); one male specimen, Belfir (BH), March 2, 2019; one male subadult specimen, Tinca (BH), January 7, 2020; one male specimen, Tinca (BH), February 6, 2020. Summer visitor in Romania.

- *Oenanthe hispanica* Linnaeus, 1758 - one male specimen (the form with black neck), Cheşa (BH), November 15, 2017. Summer visitor or accidental species in Romania.
- *Oenanthe pleshanka* Lepechin, 1770 - one male specimen, Râpa (BH), January 25, 2020. The relatively warm autumn and winter determined the observation of the species now, being summer visitor at national level.
- *Luscinia megarhynchos* Brehm, 1831 - one specimen, Cheşa (BH), November 19, 2017; one specimen, Cheşa (BH), December 7, 2017 (the latest mention of this species in Romania); two specimens, Râpa (BH), February, 13, 2018 (the earliest mention in Romania). Summer visitor in Romania.
- *Lanius collurio* Linnaeus, 1758 - one male specimen, Râpa (BH), January 14, 2015. Summer visitor in Romania.
- *Lanius senator* Linnaeus, 1758 - one specimen that threw his food into thorns: a mouse, Tinca (BH), December 2, 2016. Summer visitor or passage species in Romania.
- *Motacilla flava* Linnaeus, 1758 - one male specimen, Râpa (BH), January 12, 2016. Summer visitor in Romania.
- *Anthus trivialis* Linnaeus, 1758 - three specimens, Tinca (BH), January 13, 2019. Summer visitor or passage species in Romania.
- *Parus cyanus* Pallas, 1776 - one specimen, at the edge of Cociuba Mare forest (BH), September 26, 2019; one specimen, Râpa (BH), October 3, 2019 (probably the earliest mentions in Romania). Winter visitor, accidental species in Romania.
- *Iduna pallida* Hemprich & Ehrenberg, 1833 - one specimen, Oradea (BH), October 15, 2019 (probably the latest mention in Romania). Summer visitor in Romania.
- *Hippolais icterina* Vieillot, 1817 - one specimen, Tinca (BH), October 26, 2016. Summer visitor, this isolated specimen is probably from the northern Europe, being in migration.
- *Phylloscopus collybita* Vieillot, 1817 - one male specimen singing, Tinca forest (BH), October 6, 2018. It is surprising the song of the species at this date, probably plays a role in marking the territory.
- *Sylvia atricapilla* Linnaeus, 1758 - two male specimens, Tinca (BH), February 15, 2017; one male specimen, Cheşa (BH), December 2, 2018. Very strange presences, summer visitor in Romania.
- *Serinus serinus* Linnaeus, 1758 - one male specimen, Râpa (BH), February 26, 2019 (probably this is the earliest mention in Romania).

- *Tarsiger cyanurus* Pallas, 1773 - one male specimen, Cociuba Mare (BH), October 14, 2019. Passage species or winter visitor, very rare species in Romania.
- *Plectrophenax nivalis* Linnaeus, 1758 - one male specimen, Husasău de Tinca (BH), May 12, 2018 (probably the latest mention in Romania); one female specimen, Tinca (BH), October 7, 2019 (probably the earliest mention in Romania). Winter visitor in Romania.
- *Eremophila alpestris* Linnaeus, 1758 - one male specimen, Râpa (BH), May 11, 2019; one male specimen, Belfir (BH), May 21, 2019; one male specimen, Râpa (BH), May 27, 2019. Species characteristic of the high mountain areas where it nests, in winter it migrates to the low areas (plain, hill). The presence of the species at this time in the lowlands is surprising.

CONCLUSIONS

Following the observations regarding the phenological anomalies of the bird species from different parts of Romania during 2015 - 2020, the following were found:

- these phenological anomalies were founded at 42 bird species belonging to 35 genera.
- most of these anomalies were observed in winter at 25 bird species, many of them being summer visitors.
- there were recorded earliest and latest mentions at 16 bird species from Romania.

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