

SHORT COMMUNICATIONS

NEW RECORDS OF AMPHIBIANS AND REPTILES IN THE VLADIMIR REGION, RUSSIA

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New data on the distribution of 10 amphibian and 6 reptile species in the Vladimir Region is given. The list of species contains 198 new records including such rare species as *Bombina bombina* and *Coronella austriaca*.

Key words: amphibians, reptiles, Vladimir Region, Russia.

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Vladimir Region is a part of Central Federal District of Russia and located in the central part of the East European Plain. Area of the region is 29 000 km². The territory of Vladimir Region belongs to Volga River basin and situated in Volga – Oka Rivers divide in the Boreo-Nemoral zone. In past the region was covered by mixed coniferous-broad-leaved forests that now mainly replaced by secondary parvifoliate forests and agriculture landscapes (Fig. 1). Degree of forest coverage is 50.7% of area. Climate is temperate continental with warm summer, moderately cold winter and pronounced transitional seasons.

Herpetofauna is typical for the Boreal part of European Russia and characterized by low number of species and includes 11 amphibian and 7 reptile species (Bannikov et al., 1977; Gasc et al., 1997; Ananjeva et al., 1998; Kuzmin, 2013). Meanwhile this territory is still white spot on the herpetological map of Russia and detailed information on the distribution and ecology is absent (Gasc et al., 1997; Kuzmin, 2013). Special regional herpetological studies with mapping of records have never been conducted.

Recent publications on Vladimir Region herpetofauna contain only previous data on species distribution (Murgraph et al., 2002) including the list of herpetological collections stored in the Vladimir – Suzdal Museum-Reserve (Dudenkov, 2011), and some biological data of *Pelobates fuscus* (Krassavtzev, 1939), *La-*

certa agilis (Sand Lizard, 1976; Ruchin, Ryzhov, 2008) and *Vipera berus* (Krassavtzev, 1932; Solovyov et al., 2016).

Our field investigations were realized in Petchushki, Yuryev-Polsky, Sobinka, Suzdal, Sudogda, Gus-Khrustalny, Kameshkov, Kovrov, Vyazniki, Selivanovo, Gorokhovets, Murom, Melenki Districts and Vladimir City during the period of 2007 – 2018. As result of this work we collected a new data of distri-



Fig. 1. Fallow land in Vladimir Region, Sobinka District, vicinity of Batyushkovo village, September 2015. Typical habitat of *Lissotriton vulgaris*, *Bufo bufo*, *Rana arvalis*, *Rana temporaria*, *Lacerta agilis*, *Zootoca vivipara*

bution including 198 new records of 10 species of amphibians and 6 species of reptiles for Vladimir Region (Fig. 2 – 13). Moreover we listed several important records out of the borders of region. Maps with new records are given only for species with limited or sporadic distribution in Vladimir Region (Fig. 14 – 17).

List of records

AMPHIBIANS

Triturus cristatus (Laurenti, 1768)

Sudogda District: Dyukinsky Reserve (56.0108°N 41.0591°E), 2 June 2007, 1 ad., 28 May 2010, 1 ad.

Lissotriton vulgaris (Linnaeus, 1758)

Vladimir City: near Chaykovsky Street (56.1272°N 40.3644°E), 20 June 2017, 9 ad. Yuryev-Polsky District: vicinity of Nebyloe village (56.3484°N 40.0269°E), 18 May 2014, 5 ad.

Bombina bombina (Linnaeus, 1761)

Gorokhovets District: left bank of the Klyazma River near Znamensky Monastery (56.2194°N 42.6717°E), 29 May 2009, 27 April 2014; to the north of Znamensky Monastery (56.2281°N 42.6747°E), 3 August 2009, 3 ad. Murom District: floodplain of the Oka River near Panfilovo village (55.4971°N 42.0667°E), 8 May 2010, 10 ad.; near Safonovo village, Muromsky Reserve (55.8306°N 42.3802°E), 23 May 2015; vicinity of Borovitsy village (55.8090°N 42.3525°E), 24 May 2015. Gorokhovets District: vicinity of Ivachevo village (55.9477°N 42.4974°E), 18 May 2018, 3 ad. male; vicinity of Bykasovo village (55.9712°N 42.5691°E), 12 June 2018, 1 ad. male; between Ivachevo and Bykasovo villages (55.9679°N 42.5491°E), 16 May 2018, 3 ad. male.

Pelobates fuscus (Laurenti, 1768)

Sobinka District: vicinity of Kochukovo village (56.0758°N 39.9620°E), 19 May 2013, 1 ad.; between Kochukovo and Teplinovo villages (56.0711°N 39.9826°E), 29 September 2015, 1 juv., 3 subad.; vicinity of Teplinovo village (56.0656°N 39.9875°E), 28 August 2017, 1 ad. Suzdal District: Lyakhovitsy village (56.4156°N 40.6159°E), 1 September 2012, 1 ad. Kameshkovo District: Novaya Zhizn settlement (56.2989°N 40.8520°E), 1 May 2009; 19 April 2014; between Vtorovo village and Novaya Zhizn settlement (56.2811°N 40.8296°E), 20 April 2014, 1 male; Ursovo swamp, Novaya Zhizn settlement (56.3100°N 40.8848°E), 20 April 2014, 1 male. Melenki District: floodplain of the Oka River, near the abandoned village of Shorkin Bor (55.1360°N 41.7843°E), 5 July

2007, 1 ad. Gorokhovets District: Osinki village (55.9130°N 42.4251°E), 12 August 2018, 1 ad.; on road between Rozhdestveno and Ivachevo villages (55.9390°N 42.4952°E), 2 September 2018, 1 ad.; Ivachevo village (55.9438°N 42.5019°E, 55.9490°N 42.5092°E), 17 August 2018, 2 ad.; vicinity of Ivachevo village (55.9539°N 42.5157°E), 5 August 2018, 1 ad.; vicinity of Ivachevo village (55.9570°N 42.5201°E, 55.9576°N 42.5220°E), 1, 2 September 2018, 1 subad., 1 ad.; on road between Ivachevo and Bykasovo villages (55.9584°N 42.5249°E, 55.9614°N 42.5310°E, 55.9726°N 42.5583°E), 7 August 2018, 3 ad.; vicinity of Bykasovo village (55.9717°N 42.5645°E), 28 August 2018, 1 ad.; Chucha River shore (55.9656°N 42.5964°E), 12 August 2018, 1 ad.; on road between Bykasovo and Pavlikovo villages (55.9774°N 42.5941°E), 17 August 2018, 1 ad.

Bufo bufo (Linnaeus, 1758)

Petushki District: between Repikhovo and Glubokovo villages (55.8805°N 39.1428°E), 27 July 2015, 2 ad.; vicinity of Emelyantsevo village (55.9037°N 39.2190°E), 26 September 2015, 2 ad. Sobinka District: between Semenovskoe and Nazarovo villages (56.1307°N 40.1745°E), 28 September 2015, 1 subad., 1 ad.; vicinity of Batyushkovo village (56.1130°N 40.1364°E), 28 September 2015, 1 juv.; Dubrovka village (56.0667°N 40.0294°E), 29 September 2015, 2 ad.; vicinity of Uvarovo village (56.0629°N 39.9407°E), 29 September 2015, 1 ad. Suzdal District: Filippushi village (56.1682°N 40.2983°E), 28 September 2015, 1 juv. Gorokhovets District: Arefino village (56.1718°N 42.6425°E), 25 September 2015, 1 juv.; vicinity of Balandino village (55.8900°N 42.4012°E), 30 June 2017, 1 subad., (55.8829°N 42.3736°E), 1 July 2017, 3 subad.; Balandino village (55.8865°N 42.3742°E), 5 September 2017, 1 ad., 16 September 2017, 1 ad.



Fig. 2. *Bufo bufo*, female, Sobinka District, Dubrovka village, 29 September 2015

Bufo viridis (Laurenti, 1768)

Vladimir City: Chaykovsky Street (56.1272°N 40.3644°E), 16 June 2017, 23 ad., 100 juv.; Gus-Khrustalny District: Gorodskoe reservoir in Gus-Khrustalny town (55.6311°N 40.6605°E), 1 June 2010, 3 ad. Kameshkovo District: Ursovo swamp, vicinity of Mirny village (56.2986°N 40.8028°E), 3 May 2014, 1 male. Murom District: floodplain terrace of the Oka River near Safonovo village, Muromsky Reserve (55.8306°N 42.3802°E), 23 May 2015, 1 male. Melenki District: near Turgenevo village (55.4518°N 41.8640°E), 8 May 2015, 1 male.

Pelophylax lessonae (Camerano, 1882)

Sobinka District: Dubrovka village (56.0667°N 40.0294°E), 29 September 2015, 1 ad. Gorokhovets District: vicinity of Kolesnikovo village (56.1399°N 42.4044°E), 25 September 2015, 1 juv.; vicinity of Bykasovo village (55.9709°N 42.5694°E), 7 August 2018, 1 subad.



Fig. 3. *Pelophylax lessonae*, female, Sobinka District, Dubrovka village, 29 September 2015

Pelophylax ridibundus (Pallas, 1771)

Sobinka District: between Kochukovo and Teplinovo villages (56.0711°N 39.9826°E), 29 September 2015, 29 subad., 18 ad. Kameshkovo District: vicinity of Penkino village, floodplain of the Klyazma River (56.1954°N 40.9145°E), 30 September 2015, 2 juv. Gorokhovets District: vicinity of Bykasovo village, Chucha River shore (55.9608°N 42.5961°E), 7 August 2018, 1 subad.

Rana arvalis Nilsson, 1842

Petushki District: between Gorodishchi and Kirzhach villages (55.8820°N 39.0778°E), 27.09.2015, 1 juv.; vicinity of Emelyantsevo village (55.9037°N 39.2190°E), 26 September 2015, 3 juv., 1 ad. Sobinka District: Dubrovka village (56.0667°N 40.0294°E), 29 September 2015, 1 ad.; Turino village

(56.0753°N 40.0274°E), 29 September 2015, 1 ad.; between Kochukovo and Teplinovo villages (56.0711°N 39.9826°E), 29 September 2015, 6 ad., 11 subad. Gorokhovets District: Kolesnikovo village (56.1410°N 42.4055°E), 25 September 2015, 1 juv., 2 ad.; vicinity of Kolesnikovo village (56.1411°N 42.4038°E), 1 juv., 1 ad.; vicinity of Bykasovo village, Chucha River shore (55.9609°N 42.5960°E), 7 August 2018, 1 subad.



Fig. 4. *Pelophylax ridibundus*, juvenile, Kameshkovo District, vicinity of Penkino village, 30 September 2015

Rana temporaria Linnaeus, 1758

Sobinka District: vicinity of Yurino village, Kolksha River (56.0957°N 40.1038°E), 28 September 2015, 10 subad., 2 ad.; vicinity of Stolbishchi village, Vorsha River (56.0631°N 40.0357°E), 29 September 2015, 1 ad., 4 juv.; Dubrovka village (56.0667°N 40.0294°E), 29 September 2015, 3 subad.; between Kochukovo and Teplinovo villages (56.0711°N 39.9826°E), 29 September 2015, 15 ad., 29 subad.;



Fig. 5. *Rana arvalis*, male, Sobinka District, Turino village, 29 September 2015

vicinity of Uvarovo village (56.0629°N 39.9407°E), 29 September 2015, 12 ad. Suzdal District: between Snovitsy and Bogoslovo villages (56.1807°N 40.3262°E), 28 September 2015, 1 juv.; Sodyshka village, Rpen River valley (56.1948°N 40.3907°E), 28 September 2015, 3 juv. Kovrov District: vicinity of Seninskie Dvoriki village (56.2153°N 41.3963°E), 26 September 2015, 3 ad.; vicinity of Pavlovskoe village (56.2117°N 41.4759°E), 26 September 2015, 1 juv. Gorokhovets District: vicinity of Kolesnikovo village (56.1399°N 42.4044°E), 25 September 2015, 1 subad.



Fig. 6. *Rana temporaria*, Sobvinka District, Stolbishchi village, 29 September 2015

REPTILES

Anguis fragilis Linnaeus, 1758

Petushki District: near Kruglets Lake (55.8332°N 39.4665°E), 2 August 2015, 1 ad. Sudogda District: vicinity of Krasny Bogatyr village (56.0020°N 41.0631°E), 2 June 2012, 1 ad.; Dyukinsky Reserve (56.0147°N 41.0607°E), 31 May 2014, 1 ad.; vicinity of Vorovskogo village (55.7328°N 41.1780°E), 12 June 2014, 1 ad. Kameshkov District: vicinity of Penkino village (56.1784°N 40.9144°E), 4 July 2012, 1 ad. Vyazniki District: near abandoned village of Kruglitsy (56.3540°N 42.0078°E), 5 July 2008, 1 ad.; vicinity of Burino village (56.3481°N 42.2275°E), 4 August 2012, 1 ad.; floodplain of the Lukh River (56.2710°N 42.5040°E), 21 May 2010, 1 ad. Selivanovo District: 3,5 km to the south-west of Tuchkovo village (55.8558°N 41.6170°E), 26 May 2017, 1 ad. Gorokhovets District: Visha Lake shore (55.8445°N 42.3456°E), 25 May 2016 – 26 June 2016, 2 juv., 5 ad.; Bykasovo village (55.9690°N 42.5931°E), 3 July 2018, 1 subad. female; (55.9674°N 42.5917°E), 12 August 2018, 1 subad. male; vicinity of Bykasovo village (55.9725°N 42.5986°E), 19 May 2017, 1 ad. male; (55.9724°N

42.5981°E), 12 July 2017, 1 ad. female; (55.9716°N 42.5961°E), 1 August 2017, 1 ad. male; (55.9773°N 42.6265°E), 5 August 2017, 1 ad. female; (55.9780°N 42.6062°E), 5 August 2017, 1 ad. female; (55.9727°N 42.5984°E), 12 August 2017, 13 August 2017, 1 ad. female; (55.9727°N 42.6315°E), 14 August 2017, 2 ad. female; (55.9735°N 42.5983°E), 14 May 2018, 1 ad. female; (55.9664°N 42.5962°E), 23 July 2018, 1 ad. female; (55.9723°N 42.5986°E), 6 August 2018, 1 subad. male; (55.9744°N 42.5977°E), 6 August 2018, 1 ad. female; (55.9679°N 42.5988°E), 14 August 2018, 1 juv. female; (55.9685°N 42.5996°E), 14 August 2018, 1 subad. male; (55.9670°N 42.5967°E), 15 August 2018, 1 juv. male; (55.9751°N 42.5973°E), 20 August 2018, 1 ad. female; (55.9738°N 42.5963°E), 20 August 2018, 1 ad. male; (55.9687°N 42.5997°E), 21 August 2018, 1 juv. male; (55.9690°N 42.5998°E), 27 August 2018, 1 subad. male; (55.9732°N 42.5983°E), 28 August 2018, 1 juv. male; (55.9735°N 42.6013°E), 11 September 2018, 1 ad. female; on road between Bykasovo and Pavlikovo villages (55.9744°N 42.5977°E), 1 September 2017, 1 ad. male; (55.9738°N 42.5980°E), 4 September 2018, 1 ad. female; (55.9788°N 42.5949°E), 18 September 2017, 1 ad. male; (55.9807°N 42.5927°E), 18 June 2018, 1 ad. female; (55.9770°N 42.5958°E), 1 August 2018, 1 ad. female; (55.9769°N 42.5947°E), 19 August 2018, 20 August 2018, 1 ad. male; vicinity of Pavlikovo village (55.9944°N 42.5915°E), 14 July 2018, 1 ad. female; 2 km to the east of Pavlikovo village (55.9943°N 42.6155°E), 12 May 2018, 1 ad. male; (56.0015°N 42.6290°E), 12 May 2018, 1 ad. male; to the north-east of Bykasovo village (55.9897°N 42.6956°E), 30 June 2016 – 12 September 2016, 4 ad.; (55.9894°N 42.6435°E), 17 June 2016, 2 ad., 1 subad.; (55.9892°N 42.6616°E), 15 May 2017, 1 ad. female; (55.9889°N 42.6378°E), 19 May 2017, 1 ad. male; (55.9897°N 42.7017°E), 20 May 2017, 1 ad. female; (55.9886°N 42.7072°E), 24 May 2017, 1 ad. female; (55.9853°N 42.6281°E), 18 June 2017, 1 ad. male; (55.9891°N 42.6751°E), 30 June 2017, 2 ad. male; (55.9899°N 42.6978°E), 12 July 2017, 1 ad. female; (55.9881°N 42.6891°E), 12 July 2017, 1 ad. male; (55.9886°N 42.7084°E), 15 July 2017, 1 ad.; (55.9890°N 42.6769°E), 19 July 2017, 1 ad. male; (55.9902°N 42.6548°E), 12 September 2017, 1 ad. male; (55.9891°N 42.7128°E), 15 September 2017, 1 ad. female; (55.9886°N 42.6819°E), 23 September 2017, 1 ad. female; (55.9889°N 42.6379°E), 3 May 2018, 1 ad. male; (55.9893°N 42.6670°E), 3 May 2018, 1 ad. male; (55.9738°N 42.6016°E), 4 May 2018, 1 ad. female; (55.9886°N 42.7074°E), 8 May 2018, 1 ad. female; (55.9896°N 42.6952°E), 14 May 2018, 1 ad. male; (55.9877°N 42.6884°E), 14 May 2018, 1 ad. female; (55.9889°N 42.6373°E), 16 May

2018, 1 ad. female; (55.9878°N 42.6879°E), 17 May 2018, 1 ad. female; (55.9899°N 42.6963°E), 22 May 2018, 1 ad. male; (55.9882°N 42.6890°E), 29 May 2018, 1 ad. male; (55.9886°N 42.7092°E), 3 June 2018, 1 ad. male; (55.9893°N 42.6654°E), 16 June 2018, 1 ad. male; (55.9891°N 42.6747°E), 16 June 2018, 1 ad. male; (55.9891°N 42.6734°E), 26 August 2018, 1 ad. male; vicinity of Zimenki village (55.8749°N 42.3355°E), 1 June 2016, 1 ad.; (55.8734°N 42.3281°E), 14 June 2018, 1 ad.; vicinity of Balandino village (55.8760°N 42.3887°E), 3 July 2016, 1 ad. male, 7 May 2017, 1 ad. male; Visha River shore (55.8764°N 42.3942°E), 21 May 2018, 1 ad. female; vicinity of Rozhdestveno village (55.9240°N 42.4663°E), 9 August 2016, 1 ad., 21 August 2017, 1 subad. male; Rozhdestveno village (55.9231°N 42.4634°E), 12 August 2018, 1 ad. male; between Ivachevo and Bykasovo villages (55.9725°N 42.5528°E), 12 August 2016, 1 ad., 12 June 2017, 1 subad. male; (55.9729°N 42.5562°E), 12 June 2018, 1 subad. male; (55.9687°N 42.5441°E), 19 June 2018, 1 ad. male; (55.9679°N 42.5417°E), 19 June 2018, 1 ad. female; (55.9712°N 42.5398°E), 1 August 2018, 1 ad. female; between Chudskaya and Gonchary villages (56.0073°N 42.4566°E), 30 July 2018, 1 juv.; vicinity of Bereznitsy village (56.0488°N 42.5131°E), 30 July 2018, 1 ad. male; (56.0549°N 42.5090°E), 30 July 2018, 1 subad. male; vicinity of Ivachevo village (55.9555°N 42.5178°E), 12 August 2018, 1 ad. female; vicinity of Lipovka village (55.94321°N 42.6182°E), 17 August 2018, 1 ad. male; vicinity of Bolshoe village (56.0609°N 42.6863°E), 31 July 2018, 1 ad. female; Artemovo swamp (56.2403°N 42.5952°E), 28 – 29 September 2013, 1 ad., 1 juv. Pavlovsky District, Nizhny Novgorod region: 120 – 550 meters from the border of Vladimir Region (55.9908°N 42.7205°E), 19 May 2017, 1 ad. male; (55.9907°N 42.7201°E), 15 June 2017, 1 ad. female; (55.9913°N 42.7245°E), 12 June 2017, 1 ad. male; (55.9911°N 42.7238°E), 15 June 2017, 1 ad. female; (55.9913°N 42.7256°E), 13 September 2017, 1 ad. female; (55.9906°N 42.7189°E), 8 May 2018, 1 ad. male; 1100 meters from the border of Vladimir Region, 1900 meters to the west of Stepankovo village (55.9920°N 42.7335°E), 15 September 2017, 1 subad.; between the border of the Vladimir Region and Stepankovo village (55.9921°N 42.7405°E), 24 May 2018, 1 subad. male; (55.9918°N 42.7424°E), 15 June 2017, 1 ad. male; vicinity of Stepankovo village, near border of Vladimir Region (56.0078°N 42.7427°E), 1 September 2017, 1 ad. male.

Lacerta agilis Linnaeus, 1758

Suzdal District: Sodyshka village, Rpen River valley (56.1948°N 40.3907°E), 28 September 2015,



Fig. 7. *Anguis fragilis*, male and two females, Visha Lake shore, 30 May 2016

1 ad.; Filippushi village (56.1682°N 40.2983°E), 28 September 2015, 1 juv. Kovrov District: Seninskie Dvoriki village (56.2105°N 41.3213°E), 26 September 2015, 2 ad. Gorokhovets District: Balandino village (55.8861°N 42.3740°E), 2011 – 2015, 1 ad. male, 1 ad. female; Muromsky Reserve (55.87°N 42.39°E – 55.96°N 42.53°E – 55.98°N 42.69°E), 2018, 350 – 550 juv.+subad.+ad. (3.2 – 5.1% var. *concolor*); Visha River valley (55.8702°N 42.3878°E), 7 May 2015, 1 ad. (var. *concolor*); (55.8749°N 42.3877°E), 7 May 2017, 1 ad. male (var. *concolor*); pine forest (55.8738°N 42.3862°E), 24 September 2016, 38 juv.; Visha River shore (55.8767°N 42.3933°E), 24 September 2016, 45 juv. (13% of var. *concolor*), 6 May 2017 1 ad. male (var. *concolor*), 30 April 2017, 1 juv. (var. *concolor*), 7 May 2017, 3 juv. (var. *concolor*), 23 June 2017, 1 ad. female (var. *concolor*); 5 May 2018, 1 juv. (var. *concolor*); 7 May 2018, 1 juv. (var. *concolor*); 9 May 2018, 1 ad. male (var. *concolor*); 10 May 2018, 1 ad. male (var. *concolor*); 10 May 2018, 1 juv. (var. *concolor*); 10 May 2018, 1 ad. female (var. *concolor*); 11 May 2018, 1 juv. (var. *concolor*); 5 – 21 May 2018, 109 juv. (4% of var. *concolor*); Visha River shore (55.8916°N 42.4053°E), 12 June 2017, 1 subad. (var. *concolor*); on road between Bykasovo and Stepankovo villages (55.9899°N 42.6971°E), 29 May 2018, 1 ad. female (var. *concolor*); on road between Bykasovo and Stepankovo villages (55.9876°N 42.6878°E), 8 May 2018, 1 ad. male (var. *concolor*); Chucha River shore (55.9715°N 42.5969°E), 2 May 2018, 1 ad. female (var. *concolor*); Chucha River shore (55.9648°N 42.5957°E), 25 August 2018, 1 juv. (var. *concolor*); on road between Ivachevo and Bykasovo villages (55.9669°N 42.5389°E), 17 June 2018, 1 ad. female (var. *concolor*); on road between Ivachevo and Bykasovo villages (55.9642°N 42.5350°E), 3 June 2018, 1 ad. female (var. *concolor*); on road between Bykasovo and Stepankovo villa-



Fig. 8. *Lacerta agilis*, juveniles (second from right – var. *concolor*), vicinity of Balandino village, 30 April 2017



Fig. 10. *Zootoca vivipara*, melanistic, Balandino village, 19 July 2015

ges (55.9888°N 42.6810°E), 18 September 2017, 1 juv. (var. *concolor*); (55.9884°N 42.6823°E), 12 June 2017, 1 ad. female (var. *concolor*); on road between Bykasovo and Lipovka villages (55.9426°N 42.6136°E), 17 August 2018, 1 juv. (var. *concolor*). Murom District: 4 km to the east of Borisogleb village, floodplain terrace of the Ushna River (55.7062°N 42.0870°E), 20 September 2009, 2 subad. (var. *concolor*), 26 June 2014, 1 ad. male (var. *concolor*), 29 May 2015, 1 ad. female (var. *concolor*), 2 August 2016, 1 ad. female (var. *concolor*). Pavlovsky District, Nizhny Novgorod region: 600 meters from the border of Vladimir Region, to the west of Stepankovo village (55.9921°N 42.7406°E), 26 June 2018, 1 ad. female (var. *concolor*).



Fig. 9. *Lacerta agilis*, two males (var. *concolor* and var. *maculata*) combat, vicinity of Balandino village, 6 May 2017

Zootoca vivipara (Lichtenstein, 1823)

Gorokhovets District: Balandino village (55.8861°N 42.3740°E), 19 July 2015, 1 ad. (completely melanistic), 2 May 2017, 1 juv. (completely melanistic); Visha River valley (55.8768°N 42.3939°E), 7 May 2017, 1 ad. male (var. *concolor*), 3 ad., 1 juv.; Visha River valley (55.8643°N 42.3811°E), 26 April 2017, 5 ad.

Coronella austriaca Laurenti, 1768

Sudogda District: Dyukinsky Reserve (56.0113°N 41.0580°E), 30 May 2010, 1 ad. Gorokhovets District: Bykasovo village, agricultural field (55.9713°N 42.5934°E), 23 September 2017, 1 juv. male; on road between Ivachevo and Bykasovo villages (55.9687°N 42.5441°E), 20 September 2017, 1 juv. male; (55.9684°N 42.5434°E), 15 August 2018, 1 juv. female; (55.9709°N 42.5691°E), 3 June 2018, 1 juv.; 2200 meters to the north-east of Pavlikovo village, vicinity of Krushinnoe Swamp (55.9990°N 42.6165°E), 16 August 2017, 1 ad. female; on road between Bykasovo and Pavlikovo villages, Chucha River shore (55.9775°N 42.5955°E), 14 August 2017, 21 August 2017, (55.9734°N 42.5982°E) 12 September 2017, 1 ad. male; (55.9777°N 42.5953°E), 8 May 2018, (55.9768°N 42.5949°E), 8 September 2018, 1 ad. female; (55.9776°N 42.5959°E), 19 August 2017, 1 subad. female; (55.9804°N 42.5926°E), 25 August 2018, 1 ad. male; (55.9785°N 42.5929°E), 1 September 2018, 1 subad. male; (55.9791°N 42.5929°E), 5 September 2018, 1 juv. female.; Pavlikovo village (55.9922°N 42.5833°E), 17 July 2018, 1 ad.; Pavlikovo village, the old riverbed of the Chucha River (55.9889°N 42.5815°E, 55.9903°N 42.5750°E), May 2018; vicinity of Pavlikovo village (55.9817°N 42.5923°E), 15 July 2018, 1 juv. female; vicinity of Pavlikovo village (55.9944°N 42.5915°E), 13 July 2018, 14 July 2018, 16 July 2018, 1 ad. female, 31 July 2018, 1 ad., 30 August 2018, 1 subad. male, May 2018; vicinity of Bykasovo village, pine forest (55.9755°N 42.6016°E), 25 May 2017, 1 subad. male; (55.9738°N 42.5997°E), 26 August 2018, 1 subad. male; vicinity of Bykasovo village (55.9715°N 42.6002°E), 7 September 2018, 1 juv. female; (55.9702°N 42.6005°E), 9 September 2018, 1 ad. female; (55.9678°N 42.5986°E), 14 September 2018, 1 juv. male; (55.9681°N 42.5992°E), 14 September 2018, 1 juv. female; (55.9709°N 42.6011°E), 14 Sep-

tember 2018, 1 ad. male; (55.9729°N 42.6016°E), 15 September 2018, 1 subad. female; (55.9712°N 42.5955°E), 16 September 2018, 1 ad. female; (55.9769°N 42.6192°E), 18 June 2017, 1 juv. female; (55.9758°N 42.6211°E), 1 August 2017, 1 ad. female, 4 August 2017, 14 August 2017, 17 August 2017, 22 August 2017, 1 – 2 September 2017, 1 ad. female, 4 August 2017, 6 August 2017, 10 August 2017, 12 – 13 August 2017, 20 – 21 August 2017, 1 August 2018, 5 August 2018, 12 August 2018, 1 ad. female, 18 September 2017, 1 juv. male; (55.9786°N 42.6221°E), 3 June 2018; 1 subad.; (55.9736°N 42.5979°E), 15 September 2017, 1 ad. male; (55.9746°N 42.6068°E), 29 June 2018, 1 subad. female; to the north-east of Bykasovo village, to the north of the Svyato Lake and Yug River (55.9939°N 42.6881°E), 5 August 2016, 1 ad.; (55.9890°N 42.6790°E), 5 August 2016, 1 subad. female; (55.9885°N 42.6818°E), 24 May 2017, 1 ad. male, 3 May 2018, 1 ad. male; (55.9878°N 42.6881°E), 20 June 2017, 1 subad. female, 29 August 2018, 1 ad.; (55.9882°N 42.6892°E), 14 May 2018, 1 ad. male, 17 May 2018, 1 ad. male; pine forest (55.9892°N 42.6616°E), 15 July 2017, 26 July 2017, 18 June 2018, 1 ad. male, 18 July 2017, 1 ad. female, 26 July 2017, 1 ad. male, 27 July 2017, 2 August 2017, 8 August 2017, 10 August 2017, 12 August 2017, 3 June 2018, 4 June 2018, 16 June 2018, 29 June 2018, 12 July 2018, 26 July 2018, 12 August 2018, 1 ad. female, 8 May 2018, 12 May 2018, 4 June 2018, 1 ad. male, 29 May 2018, 1 ad. female, 4 June 2018, 12 July 2018, 26 July 2018, 5 August 2018, 14 August 2018, 1 ad. female, 26, 28 August 2018, 1 juv. male; 28 August 2018, 1 juv. female; (55.9892°N 42.6616°E), 12 September 2017, (55.9895°N 42.6586°E), 17 May 2018, 1 ad. female; (55.9899°N 42.6987°E), 19 July 2017, 1 subad. female; (55.9896°N 42.6462°E), 26 July 2017, 1 subad. female; (55.9885°N 42.6824°E), 27 July 2017, 1 ad. male; (55.9897°N 42.6461°E), 28 July 2017, 1 subad. male; (55.9890°N 42.7143°E), 8 August 2017, 1 ad. male; (55.9892°N 42.6749°E), 15 September 2017, 1 juv. male; (55.9889°N 42.6808°E), 18 September 2017, 1 juv. male; (55.9888°N 42.6812°E), 23 May 2018, 1 ad. male; (55.9889°N 42.6809°E), 3 June 2018, 4 June 2018, 1 ad. male; vicinity of Bolshoe village (56.0513°N 42.6628°E), 12 May 2018, 1 ad. female; Chucha River shore near the road between Bykasovo and Lipovka villages (55.9649°N 42.5958°E), 19 June 2018, 7 August 2018, 19 August 2018, 1 ad. male, 7 August 2018, 1 ad. female, July 2017; (55.9635°N 42.5970°E), 2 August 2018, 1 ad. female, 19 August 2018, 1 ad. male; vicinity of Velikoe Lake (56.3005°N 42.6572°E), 31 July 2009, 1 ad. Pavlovsky District, Nizhny Novgorod region: 1500 meters from the border of Vladimir Region, to the

west of Stepankovo village (55.9922°N 42.7398°E), 8 August 2017, 1 ad. female; 750 meters from the border of Vladimir Region, 2200 meters to the west of Stepankovo village (55.9913°N 42.7283°E), 16 May 2018, 1 ad. female; between the border of Vladimir Region and Stepankovo village (55.9918°N 42.7425°E), 17 May 2018, 1 subad. female; 5900 meters from the border of Vladimir Region, Babasovo village (55.9935°N 42.8120°E – 55.9949°N 42.8120°E), 25 August 2015, 1 ad. female, 29 July 2016, 1 juv. female, 19 August 2016, 1 ad., 20 August 2016, 1 subad. female; Stepankovo village (55.9939°N 42.7749°E), 31 August 2017, 2 juv.; Stepankovo village (55.9920°N 42.7663°E), 16 May



Fig. 11. *Coronella austriaca*, immature, vicinity of Bykasovo village, 18 June 2017

2018, 1 juv. female; Stepankovo village (55.9930°N 42.7693°E), 12 July 2018, 1 ad. male. Yuzhsky District, Ivanovo region: 800 meters from the border of Vladimir Region, to the north-west of Mokhovatoe Lake (56.4483°N 42.2916°E), 11 July 2009, 1 ad.

Natrix natrix (Linnaeus, 1758)

Petushki District: between Repikhovo and Glubokovo villages (55.8805°N 39.1428°E), 27 September 2015, 1 ad., 3 juv.; vicinity of Emelyantsevo village (55.9037°N 39.2190°E), 26 September 2015, 1 juv. Sobinka District: vicinity of Yurino village, Koloksha River (56.0957°N 40.1037°E), 2015. Suzdal District: Filippushi village (56.1682°N 40.2983°E), 28 September 2015, 1 juv. Kameshkovo District: Pestovo village (56.2156°N 41.2345°E), 30 September 2015, 1 juv. Kovrov District: Shchibrovo village (56.2026°N 41.6615°E), 2015. Murom District: Poleskovo village (55.8580°N 42.45292°E), 4 August 2015, 1 ad.; between Aleshunino and Krasny Bor villages (55.8232°N 42.3234°E), 25 September 2016, 3 ad. Gorokhovets District: Arefino village (56.1718°N 42.6425°E), 25 September 2015, 3 juv.; terrace above the floodplain of the Klyazma River

(56.1750°N 42.6369°E), 25 September 2015, 1 juv.; Kolesnikovo village (56.1410°N 42.4055°E), 25 September 2015, 2 subad.; vicinity of Kolesnikovo village (56.1399°N 42.4044°E), 1 juv.; vicinity of Kolesnikovo village (56.1431°N 42.4085°E), 1 juv.; vicinity of Pavlovskoe village (56.2117°N 41.4759°E), 26 September 2015, 1 ad., 1 juv.; Visha Lake shore and the mouth of the Vynets River (55.8568°N 42.3571°E), 2 June 2011, 8 ad.; Visha River (55.8767°N 42.3943°E), 2 June 2016, 3 ad., 6 May 2017, 1 ad., Visha Lake shore near Aleshunino village (55.8340°N 42.3350°E), 21 May 2018, 1 ad.; Visha River shore (55.8689°N 42.3858°E), 26 April 2017, 1 ad.; marshland (55.8978°N 42.4533°E), 12 June 2016, 5 ad.; Uga Lake shore (55.9294°N 42.3970°E), 3 June 2016, 4 ad., 15 June 2018, 9 ad.; vicinity of Zimenki village (55.8735°N 42.3285°E), 1 June 2016, 3 ad., 14 June 2018, 4 ad.; Vynets River (55.8750°N 42.3310°E), 1 June 2016, 5 ad., 11 June 2018, 1 ad., 14 June 2018, 1 juv.; Balandino village (55.8867°N 42.3760°E), 15, 17 June 2018, 1 ad., 21 August 2018, 1 juv., 7 September 2018, 1 ad.; on road between Balandino village and Visha River (55.8819°N 42.3821°E – 55.8788°N 42.3883°E), 1, 8, 9 May, 1 subad., 2 ad.; Bykasovo village (55.9658°N 42.5740°E – 55.9697°N 42.5945°E), 16 June 2018, 23 July 2018, 12, 21, 25, 26 August 2018, 4 juv., 1 subad., 3 ad.; between Bykasovo and Stepankovo villages (55.9890°N 42.6768°E – 55.9889°N 42.7106°E), 9 August 2016, 1 subad.; 1 May 2017, 2 subad.; 29 April 2017, 1 subad., 18 June 2017, 1 ad., 4, 8, 12, 22, 24 May 2018, 2 subad., 5 ad., 4, 16 June, 2 ad., 31 July 2018, 1 ad., 10, 12, 14, 18, 27 August 2018, 5 juv., 3 subad., 2 ad.; along the road and on road between Pavlikovo and Lipovka villages, Chucha River shore (55.9886°N 42.5857°E – 55.9439°N 42.6218°E), 2, 8 May 2018, 1 juv., 3 ad., 19, 23, 26, 27 June 2018, 5 ad., 3 July 2018, 1 ad., 1, 3, 4, 6, 10, 11, 14, 15, 17, 19–21, 24–29 August 2018, 20 juv., 7 subad., 11 ad., 1, 2, 4, 7–9, 11 September 2018, 12 juv., 3 subad., 7 ad.; vicinity of Bolshoe village (56.0771°N 42.6869°E, 56.0513°N 42.6823°E), 14 May 2018, 31 July 2018, 1 juv., 1 subad.; vicinity of Pavlikovo village (55.9944°N 42.5915°E, 55.9946°N 42.5890°E, 55.9941°N 42.5944°E), 13 July 2018, 1 subad., 1 September 2018, 2 ad., 4 September 2018, 1 ad.; vicinity of Pavlikovo village (55.9963°N 42.5734°E, 55.9939°N 42.5808°E, 55.9919°N 42.5792°E), 6 June 2018, 15, 20 August 2018, 1 juv., 2 ad.; (55.9964°N 42.6012°E), 21 August 2017, 1 subad. male; (55.9802°N 42.5982°E), 21 August 2017, 1 ad.; vicinity of Svyato Lake (55.9727°N 42.6315°E, 55.9666°N 42.6114°E – 55.9671°N 42.6170°E), 14 August 2017, 1 subad., 2 May 2018, 3 ad.; Osinki village, on road between Osinki and Istomino villa-

ges, Istomino village (55.9063°N 42.4236°E – 55.9217°N 42.4529°E), 13 July 2016, 1 ad.; 1 May 2017, 1 ad., 3, 18, 19, 22 May 2018, 5 ad., 15–17, 19, 21, 22, 25, 26 June 2018, 3 subad., 13 ad., 23 July 2018, 1 ad., 11–13, 17, 20, 21, 25–30 August 2018, 22 juv., 3 subad., 3 ad., 1, 2, 4–9, 11 September 2018, 18 juv., 4 subad., 2 ad.; on road between Istomino and Rozhdestveno villages, Rozhdestveno village, Ivachevo village and on road between Rozhdestveno and Ivachevo villages (55.9213°N 42.4522°E – 55.9507°N 42.5114°E), 15–17, 23, 26 June 2018, 1 subad., 8 ad., 14, 23 July 2018, 2 ad., 2–4, 13, 17, 19, 21, 24–30 August 2018, 31 juv., 7 ad., 1, 2, 4–9, 11 September 2018, 24 juv., 5 subad., 5 ad.; on road between Ivachevo and Bykasovo villages (55.9577°N 42.5225°E – 55.9686°N 42.5758°E), 3, 13, 15 May 2018, 2 juv., 3 ad., 4, 15, 17, 19, 22, 23, 25, 26, 28 June 2018, 1 juv., 10 ad., 14, 16 July 2018, 1 juv., 1 ad., 5, 6, 9, 11, 14, 17, 19, 20, 21, 24, 26–30 August 2018, 36 juv., 3 subad., 6 ad., 1, 2, 4–6, 8, 9, 11 September 2018, 27 juv., 4 subad., 6 ad.; other records in various places of the Muromsky Reserve (55.82°N 42.33°E – 55.99°N 42.71°E), 1 May 2018 – 9 September 2018, 31 juv.+subad.+ad.



Fig. 12. *Natrix natrix*, aggregation for basking, Visha Lake, 2 June 2011

Vipera berus (Linnaeus, 1758)

Kovrov District: Shchibrovo village (56.2026°N 41.6615°E), 2015. Gorokhovets District: Litovka village (56.1533°N 42.5175°E), 2015; Vynets River (55.8749°N 42.3312°E), 1 June 2016, 1 ad.; Visha Lake shore (55.8552°N 42.3474°E), 13 May 2016, 1 ad.; Visha River shore (55.8700°N 42.3871°E), 25 July 2015, 1 ad.; Visha Lake shore, vicinity of Aleshunino village (55.8347°N 42.3371°E), 17 June 2012, 1 ad.; Balandino village (55.8865°N 42.3753°E), 5 June 2016, 1 subad., 23 June 2016, 1 subad., 1 May 2016 – 30 September 2016, 9 ad., 2 May 2017, 1 ad., 3 May 2017, 1 ad., 15 July

2017, 1 ad., 4 August 2017, 1 ad., 11 August 2017, 1 ad.; 2 September 2017, 1 ad. 14 September 2017, 1 ad., 28 April 2018, 1 ad., 7 May 2018, 2 ad., 17 June 2018, 1 ad., 21 June 2018, 2 ad., 26 July 2018, 1 ad., 27 July 2018, 1 ad., 29 July 2018, 1 ad., 2 August 2018, 1 ad., 4 August 2018, 1 ad., 22 September 2018, 1 ad.; vicinity of Balandino village (55.8810°N 42.3754°E), 9 May 2018, 1 ad. male; between Rebrovo and Balandino villages (55.9096°N 42.3685°E), 11 May 2010, 1 ad.; Osinki village (55.9116°N 42.4243°E), 12 September 2014, 1 ad., 12 July 2017, 1 subad., 3 May 2018, 1 ad., 8 May 2018, 2 ad., 11 September 2018, 1 ad., 15 September 2018, 1 subad.; vicinity of Osinki village (55.9042°N 42.4206°E), 9 May 2016, 1 ad., on road vicinity of Osinki village (55.9149°N 42.4266°E), 31 July 2017, 1 subad., 23 September 2017, 1 ad., 19 June 2018, 2 ad., 7 September 2018, 1 ad.; to the west of Istomino village (55.9234°N 42.4326°E, 55.9232°N 42.4355°E), 22 June 2018, 1 ad., 23 June 2018, 1 su-bad., 28 August 2018; 1 ad.; between Ivachevo and Bykasovo villages (55.9564°N 42.5190°E), 13 July 2016, 1 ad., (55.9658°N 42.5375°E), 2 May 2017, 1 ad.; (55.9687°N 42.5444°E), 14 September 2018, 1 juv.; on road between Rozhdestveno and Ivachevo villages (55.9415°N 42.4986°E), 14 May 2018, 1 ad.; between Balandino and Osinki villages, Visha River shore (55.8923°N 42.4069°E), 26 July 2018, 1 ad.; (55.8955°N 42.4126°E), 29 August 2018, 1 ad.; vicinity of Pavlikovo village (55.9944°N 42.5915°E), 13 July 2018, 26 July 2018, 29 July 2018; 1 ad. female; vicinity of Pavlikovo village, Chucha River shore (55.9851°N 42.5912°E, 55.9854°N 42.5912°E, 55.9842°N 42.5909°E, 55.9835°N 42.5918°E), 6 August 2018, 1 juv., 5 September 2018, 1 juv., 8 September 2018, 2 juv.; on road between Bykasovo and Pavlikovo villages (55.9792°N 42.5929°E), 28 August 2018, 1 ad., 11 September 2018, 1 ad.; (55.9785°N



Fig. 13. *Vipera berus*, immature, vicinity of Aleshunino village, 25 September 2016

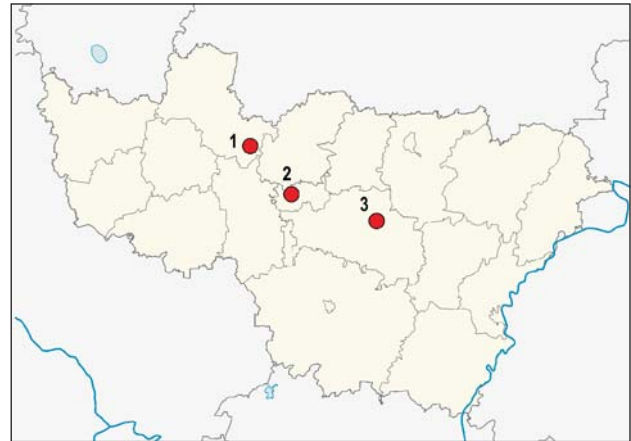


Fig. 14. Map of new records of newts in the Vladimir Region. *Lissotriton vulgaris*: 1, 2; *Triturus cristatus*: 3; 1 – vicinity of Nebyloe village; 2 – Vladimir City; 3 – Dyukinsky Reserve

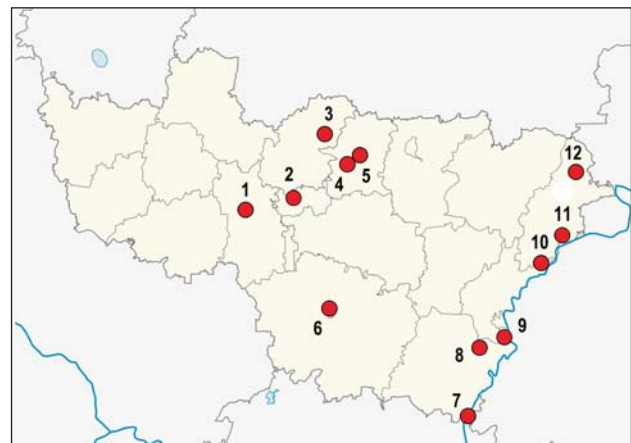


Fig. 15. Map of new records of rare frog species in the Vladimir Region. *Bombina bombina*: 9, 10, 12; *Pelobates fuscus*: 1, 3–5, 11, 12; *Bufo viridis*: 2, 4, 6, 8, 10; 1 – near Teplinovo village; 2 – Vladimir City; 3 – Lyakhovitsy village; 4, 5 – near Novaya Zhizn settlement; 6 – Gorodskoe reservoir in Gus-Khrustalny; 7 – near the abandoned village of Shorkin Bor; 8 – near Turgenevo village; 9 – near Panfilovo village; 10 – vicinity of Borovitsy and Safonovo villages; 11 – Osinki village; 12 – vicinity of Ivachevo and Bykasovo villages; 13 – Klyazma River near Znamensky Monastery

42.5929°E, 55.9804°N 42.5926°E), 4 September 2018, 1 subad., 1 ad.; (55.9762°N 42.5956°E), 9 September 2018, 1 juv.; (55.9785°N 42.5950°E), 14 September 2018, 1 ad.; (55.9775°N 42.5938°E), 14 September 2018, 1 ad.; (55.9859°N 42.5912°E), 15 September 2018, 1 ad.; (55.9793°N 42.5929°E), 16 September 2018, 1 juv.; vicinity of Bykasovo village (55.9737°N 42.5979°E), 7 September 2018, 1 subad. Murom District: vicinity of Aleshunino village (55.8298°N 42.3416°E), 25 September 2016, 1 ad., 1 subad.; between Krasny Bor village and Visha Lake (55.8262°N 42.3073°E), 11 May 2010, 1 ad.

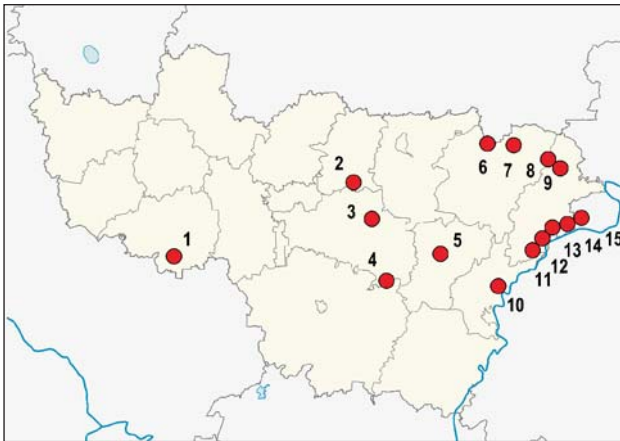


Fig. 16. Map of new records of lizards in the Vladimir Region. *Anguis fragilis*: 1–9, 11–15; *Lacerta agilis* var. *concolor*: 10, 11, 13, 14; 1 – near Kruglets Lake; 2 – vicinity of Penkino villag; 3 – vicinity of Krasny Bogatyr village; 4 – vicinity of Vorovskogo village; 5 – to the south-west of Tuchkovo village; 6 – near abandoned village of Kruglitsy; 7 – vicinity of Burino village; 8 – floodplain of the Lukh River; 9 – Artemovo swamp; 10 – to the east of Borisogleb village; 11 – vicinity of Balandino village; 12 – vicinity of Rozhdestveno village; 13, 14 – vicinity of Bykasovo village; 15 – Pavlovsky District, Nizhny Novgorod Region: 200 – 1600 meters from the border of Vladimir Region, vicinity of Stepankovo village

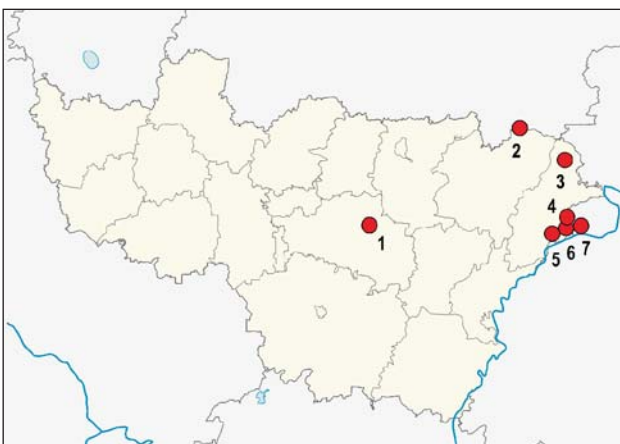


Fig. 17. Map of new records of *Coronella austriaca* in the Vladimir Region. 1 – Dyukinsky Reserve; 2 – Yuzhsky District, Ivanovo Region: 800 meters from the border of Vladimir Region, to the north-west of Mokhovatoe Lake; 3 – vicinity of Velikoe Lake; 4 – to the south of Bolshoe village; 5, 6 – vicinity of Bykasovo and Pavlikovo villages; 7 – Pavlovsky District, Nizhny Novgorod Region, 750 – 5900 meters from the border of Vladimir Region, vicinity of Stepankovo and Babasovo villages

Rare patternless aberration (var. *concolor*) in juvenile and mature individuals of *Lacerta agilis* was registered in the Murom and Gorokhovets Districts. According our observations the melanistic indi-

viduals are predominated in the populations of *Vipera berus*. Same data were published early for Vladimir Region (Solovyov et al., 2016). Melanistic specimens of *Zootoca vivipara* we also registered in the Gorokhovets District. A large population of rarest reptile species *Coronella austriaca* discovered in the Muromsky Reserve, Gorokhovets District.

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**НОВЫЕ НАХОДКИ АМФИБИЙ И РЕПТИЛИЙ
НА ТЕРРИТОРИИ ВЛАДИМИРСКОЙ ОБЛАСТИ, РОССИЯ**

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Приводятся новые данные по распространению 10 видов земноводных и 6 видов пресмыкающихся во Владимирской области. Список содержит 198 новых находок, включая такие редкие виды, как *Bombina bombina* и *Coronella austriaca*.

Ключевые слова: амфибии, рептилии, Владимирская область, Россия.

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