EIGHT NEW AND SOME RARE FOR SERBIA NOCTURNAL LEPIDOPTERA SPECIES COLLECTED AT LIGHT

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Abstract

One new genus (*Epimecia* Guenée, 1839) and eight species (*Scotopteryx ignorata* Huemer & Hausmann, 1998, *Catarhoe putridaria* (Herrich-Schäffer, 1852), *Catarhoe permixtaria* (Herrich-Schäffer, 1856), *Cucullia santonici* (Hübner, [1813]), *Epimecia ustula* (Freyer, [1835]), *Caradrina suscianja* (von Mentzer, 1981), *Apamea syriaca tallosi* Kovacs & Varga, 1969 and *Hadena drenowskii* (Rebel, 1930) new for the fauna of Serbia are reported and illustrated. Additionally, some species known in Serbia from few localities only are also reported. 

**Keywords:** Serbia, faunistic, moths, Lepidoptera, Macrolepidoptera, Geometridae, Noctuidae.

Introduction

On 12 June 2014 I collected moths in western Bulgaria at Tchepun Hill near Dragoman (975m, N42°56'53"; E022°56'14"), not far away from the border with Serbia. A most interesting capture was that of a single female *Hadena drenowskii* (Rebel, 1930) which was collected together with *Asovia maeotricaria* (Alphéraky, 1876), *Paradrymonia vittata* (Staudinger, 1892), *Apamea sublustris* (Esper, [1788]), *Sideridis lampra* (Schawerda, 1913), *Sideridis turbida* (Esper, 1790), *Conisania renati meszarosi* Varga & L. Ronkay, 1991 and many other species. The discovery of *H. drenowskii* near Dragoman suggested that there should be no reason for it not also to occur beyond the border in Serbia – a country from which it was not reported.

Thus, in early July I visited eastern Serbia, in the Suva Planina Mountains near to the town of Niš. There is only one road high into the mountain, but this goes mostly in forest and there is no access to the open mountain meadows or the rocky crest. At an altitude of 1000m in the *Fagus* forest there was one open slope with a steep meadow, where I collected at night using three portable 12V light traps with 8 Watt black and 8 Watt actinic tubes, 160 Watt MVL with 15 Watt actinic lamps and another trap with a 15 Watt actinic lamp powered by a generator. There was an enormous number of moths in the traps, thousands of which were common migrant species, dominated by *Noctua fimbriata* (Schreber, 1759). Many other species were collected and data for the more interesting taxa are presented below. From these, *Scotopteryx ignorata* Huemer & Hausmann, 1998 and *Caradrina suscianja* (von Mentzer, 1981) are new for the fauna of Serbia. For the next three nights I collected in the district of Bela Palanka at Svrljiške Planine, Rinjska Planina, near Babin Kal and in districts of Pirot: Vidič Mts – above Kamenolom Kitka below Crni Vrh and above Krupac Village. Near Babin Kal there was nothing really interesting. Above Kamenolom Kitka, below the summit of Crni Vrh however, there were four specimens of *Hadena drenowskii* in the traps and many other interesting species, from which *Catarhoe permixtaria* (Herrich-Schäffer, 1856) and *Apamea syriaca tallosi* Kovacs & Varga, 1969 are also new for the fauna of Serbia.
The traps were around 100 – 200 m distant from each other. The habitat is one of dry limestone slopes with *Artemisia alba, Syringa vulgaris* and other plants, surrounded by *Quercus-Carpinus* forest with *Acer monspessulanum* (Plate 1.).

On the last date, I collected above Krupac Village, in the district of Pirot, in a dry stony meadow near *Quercus* forest. Among the species at light *Catarhoe putridaria* (Herrich-Schäffer, 1852) was new for Serbia. It was collected there together with *C. permixtaria*. In the middle of July, on the way to Montenegro, I collected for a single night in western Serbia, near Jabuka Pass in the Prijepolje Region. Because of the rain and low temperatures I used only portable light traps in meadows on a rocky limestone area with *Juniperus*, etc. At the end of August, I collected near Koritnjak above Niška Banja and repeated collecting below Crni Vrh summit. Using Google Earth I found an easier access to Crni Vrh and there I collected at a much higher elevation and in a more open area (Plate 2.). *Cucullia santonici* (Hübner, [1813]) and *Epimecia ustula* (Freyer, [1835]) were new for the fauna of Serbia and *Hadena drenowskii* was collected again, this time together with *Cucullia formosa* Rogenhofer, 1860, which was not rare there.

Data are now presented for some of the more interesting species collected during these three trips. Many species are new for eastern Serbia and are not reported by Zečević (2002) from Timočka Krajna, a well-explored part of eastern Serbia. A small number of specimens, particularly small Geometridae which need examination of the genitalia, still remain unidentified. All specimens were collected by the author and are preserved in his collection in National Museum of Natural History, Sofia.

**Inventory of species**

**Family Geometridae**


*Phaiogramma etruscaria* (Zeller, 1849) E. Serbia, Niš Region, Suva Planina, above Bojanine Vode, 1000 m, N43°12'56"; E022°07'27", 2.vii.2014, 1 male.

*Idaea trigeminata* (Haworth, 1809) E. Serbia, Vidlič Mts, Pirot Region, above Krupac Village, 688 m, N43°06'15"; E022°42'55", 5.vii.2014, 1 male; E. Serbia, Niš Region, Suva Planina, above Bojanine Vode, 1000 m, N43°12'56"; E022°07'27". New species for Eastern Serbia.

*Scotopteryx luridata* (Hufnagel, 1767) E. Serbia, Niš Region, Suva Planina, above Bojanine Vode, 1000 m, N43°12'56"; E022°07'27", 2.vii.2014, collected together with *Scotopteryx ignorata*, 1 male, Gen. prep. 3/27.iii.2015, S. Beshkov (Plate 3a). Genitalia are illustrated here for comparison with the of next species.

*Scotopteryx ignorata* Huemer & Hausmann, 1998 E. Serbia, Niš Region, Suva Planina, above Bojanine Vode, 1000 m, N43°12'56"; E022°07'27", 2.vii.2014, 1 male (Plate 3c), Gen. prep. 2/27.iii.2015, S. Beshkov. Genitalia correspond exactly to these in the original description (Plate 3b). **New species for Serbia.**
Plate 1. Serbia – above Kamenolom Kitka, 870 m, collecting locality of *Catarhoe permixtaria*, *Caradrina suscianja*, *Apamea syriaca tallosi*, etc., 4.vii.2014.

Plate 2. Serbia – below the summit of Crni Vrh, 1046 m, collecting locality of *Cucullia santonici*, *Epimecia ustula* and *Hadena drenowskii*. 25.viii.2014.
Catarhoe putridaria  (Herrich-Schäffer, 1852) E. Serbia, Vidlič Mts, Pirot Region, above Krupac Village, 688m, N43°06'15"; E022°42'55", 5.vii.2014, 1 male (Plate 4a), Gen. prep. 1/9.iii.2015, S. Beshkov, male genitalia on glass in Euparal (Plate 4c). **New species for Serbia.**

Catarhoe permixtaria  (Herrich-Schäffer, 1856) E. Serbia, Pirot Region, Above Kamenolom Kitka, below Crni Vrh summit at 870 m, N43°10'49"; E022°38'35", 4.vii.2014, 1 male, Gen. prep. 1/24.iii.2015, S. Beshkov (Plate 4d). E. Serbia, Vidlič Mts, Pirot Region, above Krupac Village, 688m, N43°06'15"; E022°42'55", 5.vii.2014, 2 females (Plate 4b), Gen. prep. 2/9.iii.2015, S. Beshkov, female genitalia on glass in Euparal (Plate 4e). **New species for Serbia.**

Catarhoe cuculata  (Hufnagel, 1767) E. Serbia, Niš Region, Suva Planina, above Bojanine Vode, 1000 m, N43°12'56"; E022°07'27", 2.vii.2014, 1 male.

Euphyia frustata  (Treitschke, 1828) E. Serbia, Vidlič Mts, Pirot Region, above Krupac Village, 688m, N43°06'15"; E022°42'55", 5.vii.2014, 1 male.

Hydrelia flammeolaria  (Hufnagel, 1767) E. Serbia, Niš Region, Suva Planina, above Bojanine Vode, 1000 m, N43°12'56"; E022°07'27", 2.vii.2014, 1 female. Rare species in Serbia.

Triphosa sabaidiata  (Duponchel, 1830) W. Serbia, Prijepolje Region, Zvijezda, Savina Voda near Jabuka Pass, N43°22'03", E019°33'07", 1117m, 16.vii.2014.

Selenia tetralunaria  (Hufnagel, 1767) W. Serbia, Prijepolje Region, Zvijezda, Savina Voda near Jabuka Pass, N43°22'03", E019°33'07", 1117m, 16.vii.2014, 1 male.

Crocallis elinguaria  (Linnaeus, 1758) E. Serbia, Pirot Region, above Krupac Village, 688m, N43°06'15"; E022°42'55", 5.vii.2014, 1 male.

Asovia maeoticaria  (Alphéraky, 1876) E. Serbia, Niš Region, Suva Planina, above Bojanine Vode, 1000 m, N43°12'56"; E022°07'27", 2.vii.2014, 1 male (Plate 5a.); E. Serbia, Pirot Region, Above Kamenolom Kitka, below Crni Vrh, 870 m, N43°10'49"; E022°38'35", 4.vii.2014, 1 male. Very rare species for Serbia, reported not long ago as new for Serbia from the Western Stara Planina Mts (Djurić & Hric, 2013).

Nychiodes dalmatina  Wagner, 1909 E. Serbia, Pirot Region, Above Kamenolom Kitka, below Crni Vrh, 870 m, N43°10'49"; E022°38'35", 4.vii.2014, 2 males and 1 female, male genitalia checked. In some articles for Serbia it is reported as Nychiodes obscurata (Villers, 1789) (Tomić at al, 2002, Zečević, 1996).

Charissa obscurata  ([Denis & Schiffermüller], 1775) E. Serbia, Niš Region, Korinjak above Niška Banja, 560m, N43°17'09"; E022°00'25", 24.viii.2014, 1 male and 1 female; E. Serbia, Pirot Region, near Crni Vrh top, 1046 m, N43°10'51"; E022°38'52", 25.viii.2014, 1 male and 1 female.

Charissa pullata  ([Denis & Schiffermüller], 1775) W. Serbia, Prijepolje Region, Zvijezda, Savina Voda near Jabuka Pass, N43°22'03", E019°33'07", 1117m, 16.vii.2014, 5 males (Plate 5b, 5c) and 1 female, male genitalia (Plate 5d) checked, Gen. prep. 1/27.iii.2015, S. Beshkov.

Aspilates gilvaria  ([Denis & Schiffermüller], 1775) E. Serbia, Pirot Region, near Crni Vrh summit, 1046 m, N43°10'51"; E022°38'52", 25.viii.2014, 5 males.
Family Lasiocampidae

*Trichiura crataegi* (Linnaeus, 1758) E. Serbia, Pirot Region, near Crni Vrh summit, 1046 m, N43°10'51"; E022°38'52", 25.viii.2014, 1 male, genitalia checked.

*Lasiocampa quercus* (Linnaeus, 1758) E. Serbia, Niš Region, Koritnjak above Niška Banja, 560m, N43°17'09"; E022°00'25", 24.viii.2014, 2 females at light.

*Malacosoma castrensis* (Linnaeus, 1758) W. Serbia, Prijepolje Region, Zvijezda Village, Savina Voda near Jabuka Pass, 1117m, N43°22'02"; E019°33'07", 16.vii.2014, 1 male and 1 female.

Family Notodontidae

*Paradrymonia vittata* (Staudinger, 1892) E. Serbia, Pirot Region, Vidlič Mts, above Kamenolom Kitka to Crni Vrh Top, 870m, N43°10'49"; E022°38'35", 4.vii.2014, abundant.

Family Erebidae

*Orectes proboscidata* (Herrich-Schäffer, 1851) E. Serbia, Pirot Region, Vidlič Mts, above Kamenolom Kitka to Crni Vrh summit, 870m, N43°10'49"; E022°38'35", 4.vii.2014, 4 males. According to Stojanović, Ćurčić & Nestorović, 2011) this species has only two other localities in Serbia.

*Rhyparia purpurata* (Linnaeus, 1758) E. Serbia, Pirot Region, Above Kamenolom Kitka, below summit of Crni Vrh at 870 m, N43°10'49"; E022°38'35", 4.vii.2014, 2 males; E. Serbia, Pirot Region, above Krupac Village, 688m, N43°06'15"; E022°42'55", 5.vii.2014, 3 males.

*Chelis maculosa* ([Denis & Schiffermüller], 1775) E. Serbia, Vidlič Mts, Pirot Region, above Krupac Village, 688m, N43°06'15"; E022°42'55", 5.vii.2014, 2 males; W. Serbia, Prijepolje Region, Zvijezda Village, Savina Voda near Jabuka Pass, 1117m, N43°22'02"; E019°33'07", 16.vii.2014, 3 males.

*Euplagia quadripunctaria* (Poda, 1761) E. Serbia, Niš Region, Koritnjak above Niška Banja, 560m, N43°17'09"; E022°00'25", 24.viii.2014, 1 male and 1 female; E. Serbia, Niš Region, Koritnjak above Niška Banja, 560m, N43°17'09"; E022°00'25", 24.viii.2014.

*Schranka taenialis* (Hübner, [1809]) E. Serbia, Niš Region, Koritnjak above Niška Banja, 560m, N43°17'09"; E022°00'25", 24.viii.2014, 1 female.

*Calymma communimacula* ([Denis & Schiffermüller], 1775) E. Serbia, Niš Region, Koritnjak above Niška Banja, 560m, N43°17'09"; E022°00'25", 24.viii.2014, 1 male.

*Odice suava* (Hübner, [1813]) W. Serbia, Prijepolje Region, Zvijezda, Savina Voda near Jabuka Pass, N43°22'03", E019°33'07", 1117m, 16.vii.2014, 2 males

*Drasteria cailino* (Lefebvre, 1827) E. Serbia, Vidlič Mts, Pirot Region, above Krupac Village, 688m, N43°06'15"; E022°42'55", 5.vii.2014, 1 male.

*Catocala nymphagoga* (Esper, 1787) E. Serbia, Niš Region, Suva Planina, above Bojanine Vode, 1000 m, N43°12'56"; E022°07'27", 2.vii.2014, 1 female.
Family Noctuidae

*Cucullia formosa* Rogenhofer, 1860 E. Serbia, Pirot Region, near Crni Vrh summit, 1046 m, N43°10’51”; E022°38’52”, 25.viii.2014, 5 males (Plate 6c) and 3 females. Very rare and local species in Serbia, known only from southern areas, Gnijane (Stojanović & Ćurčić, 2011, Vasić, 202).

*Cucullia lactucae* ([Denis & Schiffermüller], 1775) E. Serbia, Niš Region, Suva Planina, above Bojanine Vode, 1000 m, N43°12’56”; E022°07’27”, 2.vii.2014, 1 female.

*Cucullia santonici* (Hübner, [1813]) E. Serbia, Pirot Region, near Crni Vrh summit, 1046 m, N43°10’51”; E022°38’52”, 25.viii.2014, 1 female (Plate 6b). *New species for Serbia.*

*Shargacucullia prenanthis* (Boisduval, 1840) E. Serbia, Niš Region, Suva Planina, above Bojanine Vode, 1000 m, N43°12’56”; E022°07’27”, 2.vii.2014, 1 male.

*Epimecia ustula* (Freyer, [1835]) E. Serbia, Pirot Region, near Crni Vrh summit, 1046 m, N43°10’51”; E022°38’52”, 25.viii.2014, 1 male (Plate 6c). *New genus and a new species for Serbia.*


*Amphipyra tetra* (Fabricius, 1787) E. Serbia, Niš Region, Koritnjak above Niška Banja, 560m, N43°17’09”; E022°00’25”, 24.viii.2014, 1 male.

*Lamprosticta culta* ([Denis & Schiffermüller], 1775) E. Serbia, Pirot Region, Above Kamenolom Kitka, below summit of Crni Vrh, 870 m, N43°10’49”; E022°38’35”, 4.vii.2014, 1 male; E. Serbia, Vidlič Mts, Pirot Region, above Krupac Village, 688m, N43°06’15”; E022°42’55”, 5.vii.2014, 4 males.

*Cryphia algeae* (Fabricius, 1775) E. Serbia, Niš Region, Koritnjak above Niška Banja, 560m, N43°17’09”; E022°00’25”, 24.viii.2014, 3 males, genitalia checked (Plate 6d).

*Cryphia ochsi* (Boursin, 1940) E. Serbia, Niš Region, Koritnjak above Niška Banja, 560m, N43°17’09”; E022°00’25”, 24.viii.2014, 2 males, genitalia checked (Plate 6e). For correct identification examination of the genitalia is recommended, it is not necessary to dissect specimens, valval tips of males are very distinctive and can be seen after brushing away a few scales.

*Nyctobrya amasina* (Draudt, 1931) E. Serbia, Niš Region, Koritnjak above Niška Banja, 560m, N43°17’09”; E022°00’25”, 24.viii.2014, 4 males and 3 females.

*Caradrina terrea* Freyer, [1839] E. Serbia, Pirot Region, near Crni Vrh top, 1046 m, N43°10’51”; E022°38’52”, 25.viii.2014, 4 males (Plate 7a).

*Caradrina suscianja* (von Mentzer, 1981) E. Serbia, Niš Region, Suva Planina, above Bojanine Vode, 1000 m, N43°12’56”; E022°07’27”, 2.vii.2014, 3 males (Plate 7b) and 5 females, Gen. preps 2., 3. and 4./11.ii.2015, S. Beshkov, male genitalia (Plate 7 c & e) with everted vesicas (Plate 7d) on glass in Euparal; E. Serbia, Pirot Region, Vidlič Mts, above Kamenolom Kitka to Crni Vrh Top, 870m, N43°10’49”; E022°38’35”, 04.vii.2014, 2 females and 3 males, Gen. preps, 5, 6 & 7/11.ii.2015, male genitalia (Plate 8a) with everted vesicas (Plate 8b) on glass in Euparal. *New
species for Serbia. Closely related species to *Caradrina selini* (Boisduval, 1840) and on the Balkans identification by appearance and even by male genitalia is sometime very difficult, even speculative. Genital armature is very variable, everted vesica is not strictly specific.

*Hoplodrina blanda* ([Denis & Schiffermüller], 1775) E. Serbia, Niš Region, Suva Planina, above Bojanine Vode, 1000 m, N43°12'56"; E022°07'27", 2.vii.2014, 1 male.

*Calamia tridens* (Hufnagel, 1766) E. Serbia, Pirot Region, near Crni Vrh top, 1046 m, N43°10'51"; E022°38'52", 25.viii.2014, 7 males.


*Apamea syriaca tallosi* Kovacs & Varga, 1969 E. Serbia, Pirot Region, Above Kamenolom Kitka, below Crni Vrh, 870 m, N43°10'49"; E022°38'35", 04.vii.2014, 1 male (Plate 8c), Gen. prep. 2./30.iii.2015, S. Beshkov, male genitalia with everted vesica in Euparal. This specimen was collected together with one male of *Apamea monoglypga* (Hufnagel, 1766) (Plate 8d), Gen. prep. 1/30.iii.2015, S. Beshkov, male genitalia with everted vesica in Euparal (Plate 8f). New species for Serbia. From northern and central western Serbia, the similar *Apamea sicula* (Turati, 1909) is reported (Stojanović & Ćurčić, 2011; Zilli at al., 2009).

*Apamea lithoxylaea* ([Denis & Schiffermüller], 1775) E. Serbia, Niš Region, Suva Planina, above Bojanine Vode, 1000 m, N43°12'56"; E022°07'27", 2.vii.2014, 1 female.


*Oligia latrunula* ([Denis & Schiffermüller], 1775) E. Serbia, Pirot Region, Above Kamenolom Kitka, below Crni Vrh summit, 870 m, N43°10'49"; E022°38'35",

4.vii.2014, 1 male; E. Serbia, Niš Region, Suva Planina, above Bojanine Vode, 1000 m, N43°12'56"; E022°07'27", 2.vii.2014, 6 males. Genitalia of all male specimens (Plate 9a) checked.

**Oligia versicolor** (Borkhausen, 1792) E. Serbia, Niš Region, Suva Planina, above Bojanine Vode, 1000 m, N43°12'56"; E022°07'27", 2.vii.2014, 9 males; E. Serbia, Pirot Region, Above Kamenolom Kitka, below summit of Crni Vrh, 870 m, N43°10'49"; E022°38'35", 4.vii.2014, 5 males; E. Serbia, Pirot Region, above Krupac Village, 688m, N43°06'15"; E022°42'55", 05.vii.2014, 1 male. Genitalia of all male specimens (Plate 9h) checked.

**Brachylomia viminalis** (Fabricius, 1777) E. Serbia, Niš Region, Suva Planina, above Bojanine Vode, 1000 m, N43°12'56"; E022°07'27", 2.vii.2014, 1 male.

**Cosmia affinis** (Linnaeus, 1767) E. Serbia, Niš Region, Suva Planina, above Bojanine Vode, 1000 m, N43°12'56"; E022°07'27", 2.vii.2014, 1 female.

**Dryobotodes monochroma** (Esper, [1790]) E. Serbia, Pirot Region, near Crni Vrh summit, 1046 m, N43°10'51"; E022°38'52", 25.viii.2014, 1 male (Plate 10a). This species is reported as new for Serbia by Stojanović and Dodok (2007) from two localities – in central western and in eastern Serbia.

**Sideridis turbida** (Esper, 1790) E. Serbia, Pirot Region, Above Kamenolom Kitka, below Crni Vrh summit, 870 m, N43°10'49"; E022°38'35", 4.vii.2014, 1 male.

**Hadena drenowskii** (Rebel, 1930) E. Serbia, Pirot Region, above Kamenolom Kitka, below Crni Vrh, 870 m, N43°11'04"; E022°38'55", 25.viii.2014, 1 female. New species for Serbia. This is the most northern locality of the species range, more than 100 km from the previously known localities.

**Dichagyris nigrescens** Höfner, 1888) E. Serbia, Vidlič Mts, Pirot Region, above Krupac Village, 688m, N43°06'15"; E022°42'55", 5.vii.2014, 1 male and 1 female.

**Dichagyris forcipula** ([Denis & Schiffermüller], 1775) E. Serbia, Vidlič Mts, Pirot Region, above Krupac Village, 688m, N43°06'15"; E022°42'55", 5.vii.2014, 1 male and 1 female.

**Dichagyris signifera** ([Denis & Schiffermüller], 1775) W. Serbia, Prijepolje Region, Zvijezda, Savina Voda near Jabuka Pass, N43°22'03", E019°33'07", 1117m, 16.vii.2014.

**Diarsia mendica** (Fabricius, 1775) E. Serbia, Niš Region, Suva Planina, above Bojanine Vode, 1000 m, N43°12'56"; E022°07'27", 2.vii.2014, 1 female.

**Rhyacia simulans** (Hufnagel, 1766) E. Serbia, Niš Region, Suva Planina, above Bojanine Vode, 1000 m, N43°12'56"; E022°07'27", 2.vii.2014, 1 male and 1 female, female genitalia checked.

**Chersotis rectangula** ([Denis & Schiffermüller], 1775) E. Serbia, Niš Region, Suva Planina, above Bojanine Vode, 1000 m, N43°12'56"; E022°07'27", 2.vii.2014, 3 females; E. Serbia, Pirot Region, Above Kamenolom Kitka, below Crni Vrh, 870 m, N43°10'49"; E022°38'35", 4.vii.2014, 1 female.
Plate 10. Lepidoptera of Serbia.
Chersotis multangula (Hübner, [1803]) W. Serbia, Prijepolje Region, Zvijezda, Savina Voda near Jabuka Pass, N43°22'03", E019°33'07", 1117m, 16.vii.2014, 4 males and 1 female.

Chersotis margaritacea (de Villers, 1789) E. Serbia, Pirot Region, near Crni Vrh summit, 1046 m, N43°10'51"; E022°07'27", 25.viii.2014, 5 males.

Divaena haywardi (Tams, 1926) E. Serbia, Niš Region, Suva Planina, above Bojanine Vode, 1000 m, N43°12'56"; E022°07'27", 02.vii.2014, 2 males; E. Serbia, Pirot Region, Vidlič Mts, above Kamenolom Kitka to Crni Vrh summit, 870m, N43°10'49"; E022°38'35", 4.vii.2014, 1 female (Plate 10d). Rare species in Serbia.


Eugnorisma depuncta (Linnaeus, 1761) E. Serbia, Pirot Region, near Crni Vrh summit, 1046 m, N43°10'51"; E022°38'52", 25.viii.2014, 1 male.

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References


