

**Holarctic butterflies of the  
subtribe Polyommatina  
(Lepidoptera: Lycaenidae)  
and their genitalia**



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&  
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*pylaon*-group (see also pls B42–B52)

Pl. A13. Selected genitalia components and their group-defining characters (shaded).

1. Aedeagus:

A, B, C. Variation of post-zonal part in dorsal aspect. A, B. Interspecific; B, C. Intraspecific.

a. Post-zonal part considerably shorter than pre-zonal one, and in dorsal aspect shaped very much as in *argus*-group but shorter and somewhat wider.

d. Basal sclerotization on dorsum of post-zonal part as in *argus*-group but longer and glossidium about half as long.

g. Lateral zonal processes in ventral aspect as in *argus*-group, being short, slender, triangular, directly attached to zone and extending latero-proximally.

2. Valva: longitudinal ridge in lateral aspect extremely prominent, with heavily sclerotized and jagged dorsum.

3. Labis:

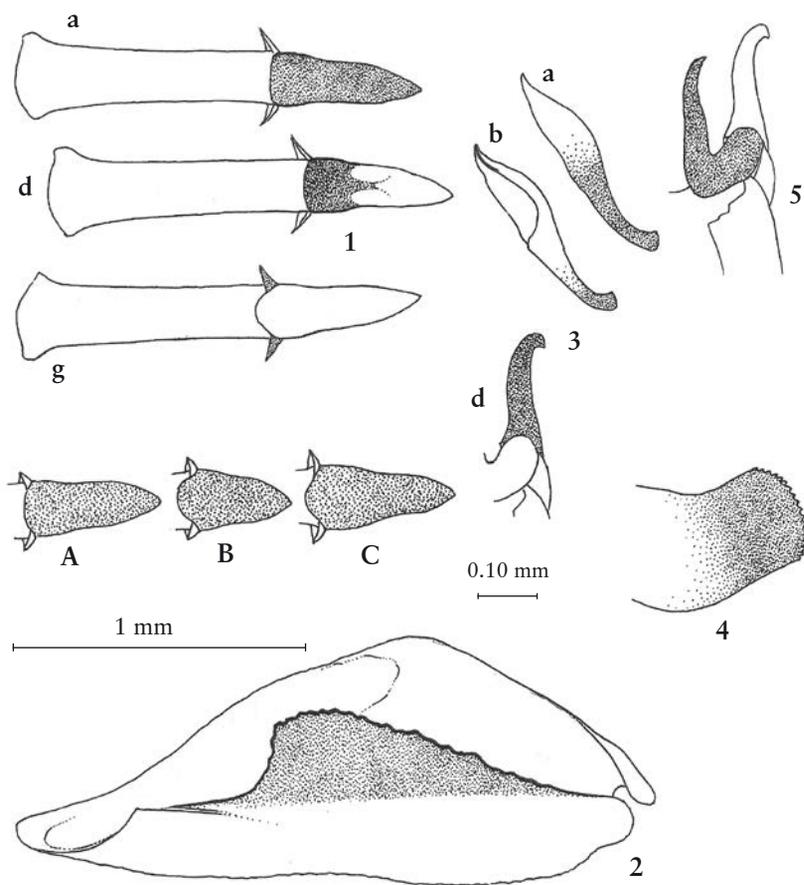
a. Distal half in lateral aspect as in *argus*-group but slightly longer.

b. Inner face of distal extremity as in *argus*-group.

d. Distal half in ventral aspect as in *argus*-group but slightly longer.

4. Dorso-distal process of valva: in flat aspect as in *idas*-group, but narrower.

5. Falx: in ventral aspect as in *argus*-group but overall larger.



*vogelii*-group (see also pl. B53)

Pl. A14. Selected genitalia components and their group-defining characters (shaded).

1. Aedeagus:

a. Post-zonal part considerably shorter than pre-zonal one, being about half as long as the latter, and in dorsal aspect with very prominent post-basal lateral swells that clearly differentiate it from *pylaon*-group.

d. Basal sclerotization on dorsum of post-zonal part and glossidium as in *pylaon*-group.

g. Lateral zonal processes in ventral aspect as in *pylaon*-group, being short, slender, triangular, directly attached to zone and extending latero-proximally.

2. Valva: longitudinal ridge in lateral aspect complete, but less prominent than in *pylaon*-group, and possessing an un-jagged dorsum and a number of medium-sized, well-defined spines.

3. Labis:

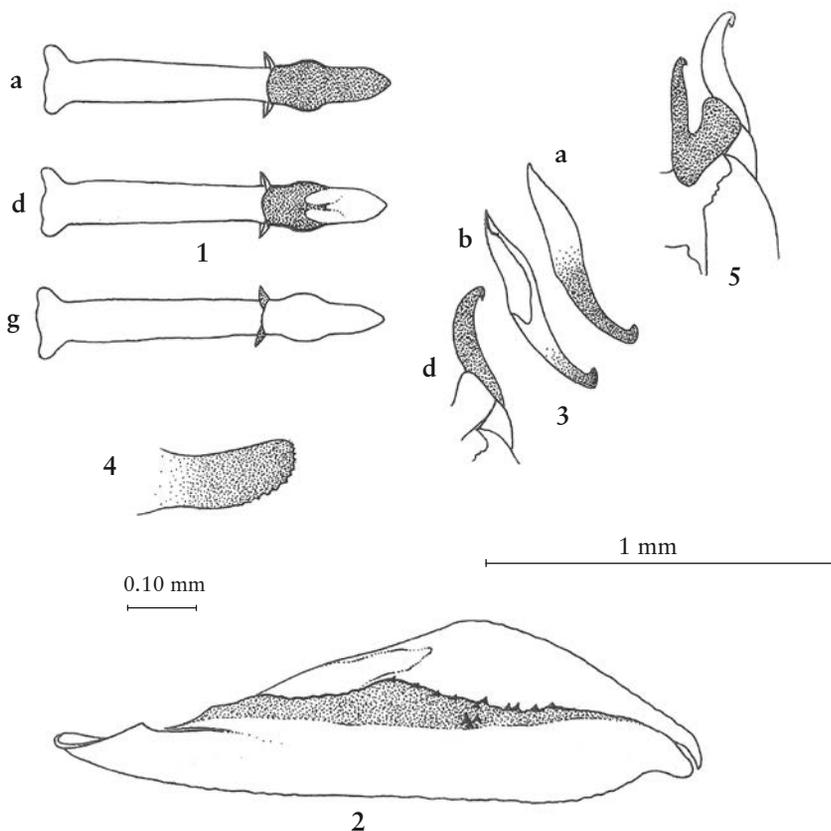
a. Distal half in lateral aspect as in *argus*-group.

b. Inner face of distal extremity as in *argus*-group.

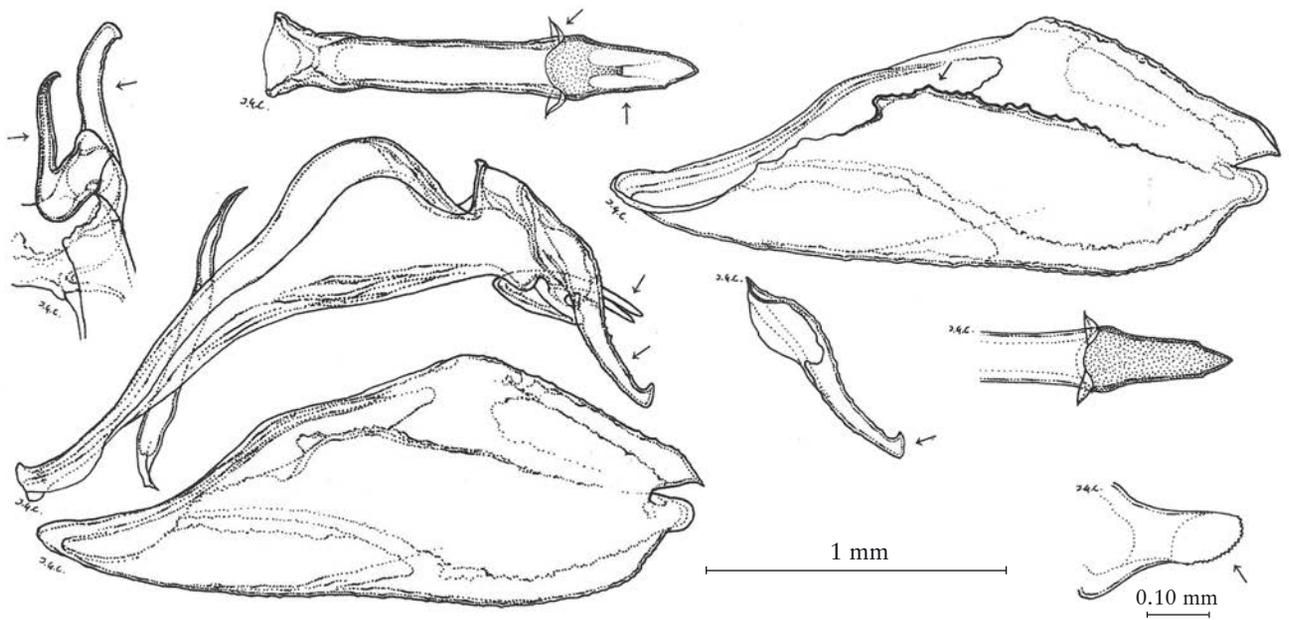
d. Distal half in ventral aspect as in *argus*-group.

4. Dorso-distal process of valva: in flat aspect considerably narrower than in *pylaon*-group; distal extremity rounder, leaning distad, and with less dense terminal serrations.

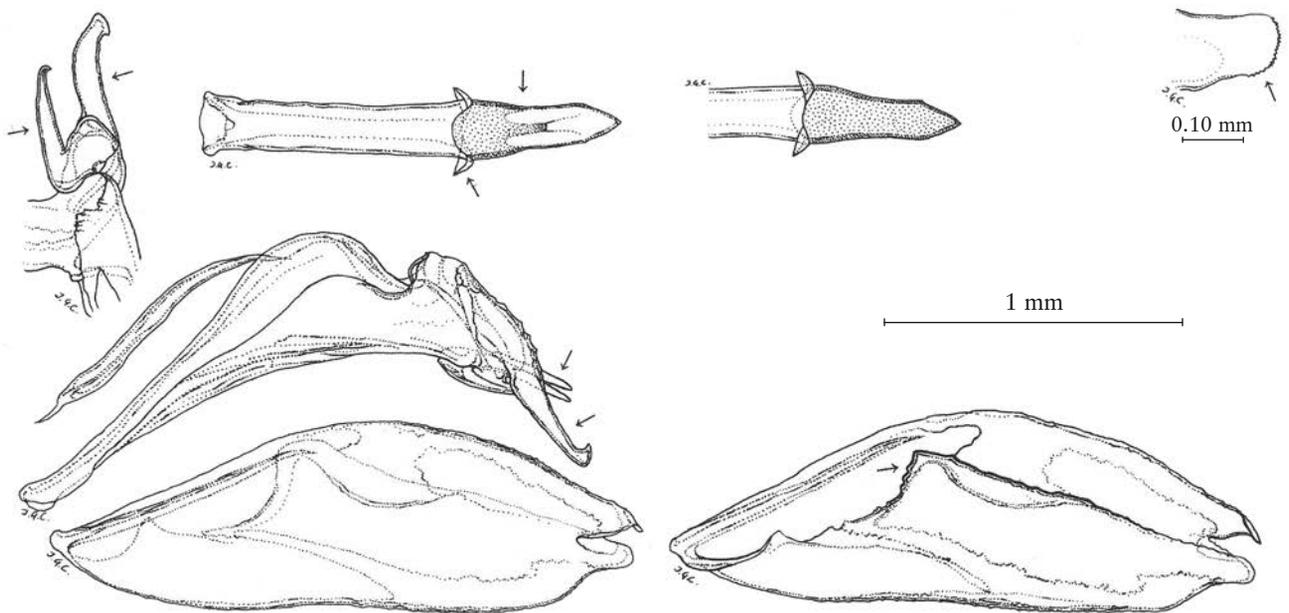
5. Falx: in ventral aspect as in *argus*-group but arm somewhat longer and terminal hook more prominent.



*pylaon-group* (see also pl. A13)



Pl. B43. *Plebejus (Plebejides) brethertoni* Brown, 1976. Greece, Pelopónnisos, Mt. Helmós, 1500 m, 25.vi.1971. Prep. No. 3041.



Pl. B44. *Plebejus (Plebejides) trappi* (Verity, 1927). Italy, Valle d'Aosta, 23.vi.1979. Prep. No. 3171.

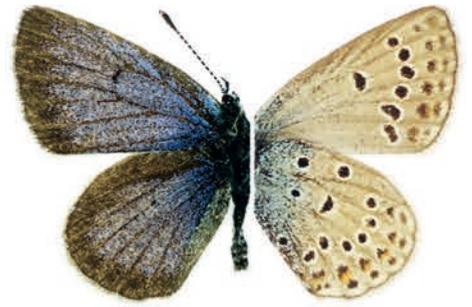
Plate V



1. *Plebejus (Plebejus) eversmanni* ♂



3. *Plebejus (Plebejus) kwaja* ♂



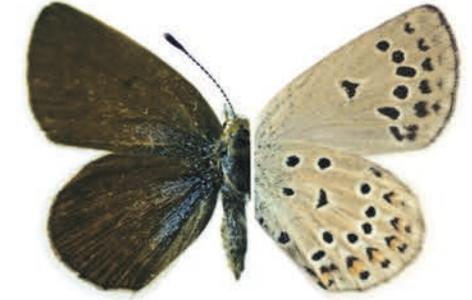
5. *Plebejus (Plebejus) callaghani* ♂



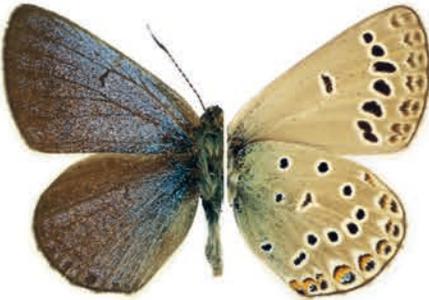
2. *Plebejus (Plebejus) eversmanni* ♀



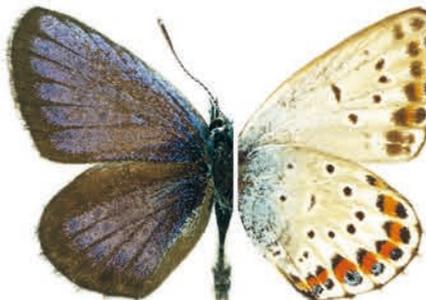
4. *Plebejus (Plebejus) kwaja* ♀



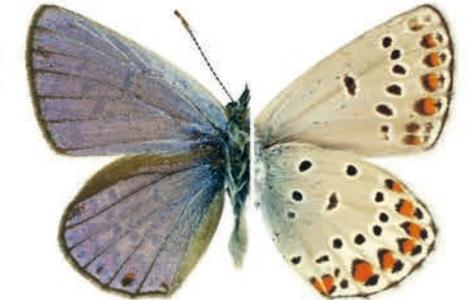
6. *Plebejus (Plebejus) callaghani* ♀



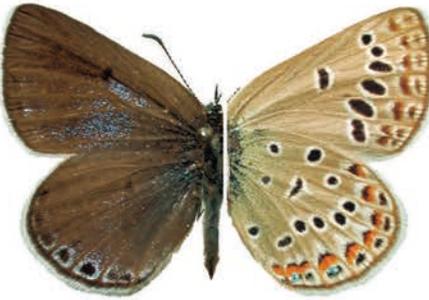
7. *Plebejus (Plebejus) grumi* ♂



9. *Plebejus (Plebejus) argus* ♂



11. *Plebejus (Plebejides) sephirus* ♂



8. *Plebejus (Plebejus) grumi* ♀



10. *Plebejus (Plebejus) argus* ♀



12. *Plebejus (Plebejides) sephirus* ♀



13. *Plebejus (Plebejides) brethertoni* ♂



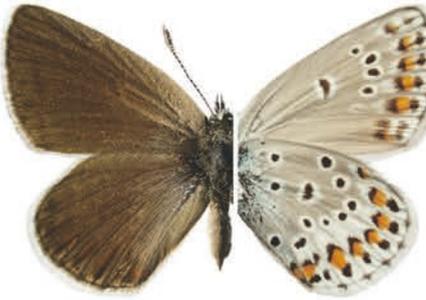
15. *Plebejus (Plebejides) trappi* ♂



17. *Plebejus (Plebejides) hespericus* ♂



14. *Plebejus (Plebejides) brethertoni* ♀



16. *Plebejus (Plebejides) trappi* ♀



18. *Plebejus (Plebejides) hespericus* ♀

14. ♀, Russia, Minussinsk, Tagarskij Ostrov, 20. VII. 1929, V. Kozhantshikov leg. (ZMKU).

***Plebejus (Plebejus) roxane (Grum-Grshimailo, 1887)***

15. ♂, Tajikistan, Badakhshan, Yazgulem Mts., Kumoshdara, 2000 m, 12. VI. 1991, leg. et coll. V. Tshikolovets.

16. ♀, [Tajikistan, Badakhshan] Darvaz, Andarbag et Dzhamak vall. fl. Jazgulem, 1900 m, 13. VIII. 1937, L. Sheljuzhko, N. Pavlitzkaja leg. (ZSSM).

***Plebejus (Plebejus) tillo Zhdanko & Churkin, 2001***

17. ♂, Tajikistan, Vanj Mts., Lyangar River, Gumas, 2400–3000 m, 8–10. VIII. 1991, leg. et coll. V. Tshikolovets.

18. ♀, Tajikistan, Vanj Mts., Lyangar River, Gumas, 2400–3000 m, 8–10. VIII. 1991, leg. et coll. V. Tshikolovets.

**Plate V**

***Plebejus (Plebejus) evermanni (H. C. Lang, 1884)***

1. ♂, Uzbekistan, Hissar Mts., Shargun River, 1700–1800 m, 18. VI. 1987, leg. et coll. V. Tshikolovets.

2. ♀, Uzbekistan, Hissar Mts., Shargun River, 1700–1800 m, 18. VI. 1987, leg. et coll. V. Tshikolovets.

***Plebejus (Plebejus) kwaja (Evans, 1932)***

3. ♂, Pakistan, Baluchistan, Ziarat, 2400–2700 m, 17.–23. V. 1983, leg. et coll. W. Eckweiler.

4. ♀, Pakistan, Baluchistan, Ziarat, 2400–2700 m, 17.–23. V. 1983, leg. et coll. W. Eckweiler.

***Plebejus (Plebejus) callaghani (Carbonell & Naderi, 2007)***

5. ♂, Iran, Tehran, Chalus road, Sidjan village, 2000 m, 26. VI. 2009, A. Naderi leg., coll. V. Tshikolovets.

6. ♀, Iran, Qazvin, Alamut pass, 2400 m, 13. VI. 2008, leg. et coll. A. Naderi.

***Plebejus (Plebejus) grumi (Staudinger, 1901)***

7. ♂, Tajikistan, Trans Alai Mts., Maydantal Valley, 2500 m, 2. VII. 1989, leg. et coll. V. Tshikolovets.

8. ♀, Tajikistan, Badakhshan, Shugnan Mts., Shod, 2500 m, 22. VI. 1991, leg. et coll. V. Tshikolovets.

***Plebejus (Plebejus) argus (Linnaeus, 1758)***

9. ♂, Armenia, Khosrov Nature Reserve, Gegamsky Mts., 1500 m, 25. VI. 1985, leg. et coll. V. Tshikolovets.

10. ♀, Ukraine, Crimea, Yaltinskaya Yayla, 1200 m, 30. VI. 1984, leg. et coll. V. Tshikolovets.

***Plebejus (Plebejides) sephirus (Frivaldszky, 1835)***

11. ♂, Turkey, Isparta, Sultan Mts., Yellibel Gecidi, 1800 m, 23–25. VI. 2003, leg. et coll. V. Tshikolovets.

12. ♀, Ukraine, Dnepr vic., Airport, 25. V. 1984, V. Barsov leg., coll. V. Tshikolovets.

***Plebejus (Plebejides) brethertoni Brown, 1976***

13. ♂, Greece, Chelmos Mts., 1700–1800 m, 4. VIII. 1919, L. Sheljuzhko leg. (ZMKU).

14. ♀, Greece, Chelmos Mts., 2000 m, 13. VIII. 1919, L. Sheljuzhko leg. (ZMKU).

***Plebejus (Plebejides) trappi (Verity, 1927)***

15. ♂, Switzerland, Wallis, Tatz Alp, 1–11. VI. 1967, L. Ditgens leg., coll. Z. Weidenhoffer.

16. ♀, Switzerland, Simplon, 14. VI. 1939, coll. Z. Weidenhoffer.

***Plebejus (Plebejides) hespericus (Rambur, 1842)***

17. ♂, Spain, Granada, Sierra Elvira, 800 m, 5. V. 1979, Fidel Fdez. Rubio leg., coll. V. Tshikolovets.

18. ♂, Spain, Granada, Sierra Elvira, 800 m, 7. VI. 1979, Fidel Fdez. Rubio leg., coll. V. Tshikolovets.

**Plate VI**

***Plebejus (Plebejides) patriarcha Bálint, 1992***

1. ♂, Tajikistan, Peter the Great Mts., Ganishou, 2000 m, 26. VI. 1987, I. Plyustsh leg., coll. V. Tshikolovets.

2. ♀, Uzbekistan, Hissar Mts., Sangardak valley, Obinauruz River, 1100 m, 4. VI. 1987, leg. et coll. V. Tshikolovets.

***Plebejus (Plebejides) usbekus Forster, 1939***

3. ♂, Uzbekistan, Tashkent vic., Kopchabek, 13. V. 1988, leg. et coll. V. Tshikolovets.

4. ♀, Kazakhstan, Syrdaryinskiy Karatau, Kurkhol gorge 40 km N of Igilik village, 540 m, 6 V 2010, leg. et coll. P. Gorbunov.

***Plebejus (Plebejides) zephyrinus (Christoph, 1884)***

5. ♂, Iran, Zanjan, Hezar Rud vic., 800–1700 m, 1. V. 2008, leg. et coll. V. Tshikolovets.

6. ♀, Turkmenistan, Kopet Dag Mts., Syunt-Khasardag Reserve, Turgain, 600 m, 23. V. 1986, leg. et coll. V. Tshikolovets.

***Plebejus (Plebejides) nichollae (Elwes, 1901)***

7. ♂, Lebanon, Cedars, 4. VI. 1962, L. G. Higgins leg., coll. V. Tshikolovets.

8. ♀, Lebanon, 30 km SE Beirut, Barouk, 1800 m, 3–11. VI. 1971, K. Rose leg. (ZMAU).

***Plebejus (Plebejides) philbyi Graves, 1925***

9. ♂, Jordan, Zarqa env., 500 m, 4. IV. 2005, leg. et coll. M. Kalabza.

10. ♀, Jordan, Zarqa env., 500 m, 4. IV. 2005, leg. et coll. M. Kalabza.

***Plebejus (Plebejides) martini (Allard, 1867)***

11. ♂, Morocco, Haut Atlas Sept., Tizi-n-Talrhemt, S Midelt, 1900–2200 m, 16–31. V. 1996, M. R. Tarrier leg., coll. V. Tshikolovets.

12. ♀, Morocco, Moyen Atlas Central, N. Boulemane, MF de Tirhbotoula, 1600 m, 16–31. V. 1997, M. R. Tarrier leg., coll. V. Tshikolovets.

***Plebejus (Plebejides) allardii (Oberthür, 1874)***

13. ♂, Morocco, Anti-Atlas occid., E. Tafraoute, Ait-Abdallah, 1700 m, 16–31. III. 1997, M. R. Tarrier leg., coll. V. Tshikolovets.

14. ♀, Morocco, Anti-Atlas occid., E. Tafraoute, Ait-Abdallah, 1700 m, 16–31. III. 1997, M. R. Tarrier leg., coll. V. Tshikolovets.

***Plebejus (Maurus) vogelii (Oberthür, 1920)***

15. ♂, Morocco, Moyen Atlas mér., SE. Timahdite, Tizi-Tarhzeft, 1900–2300 m, 16–31. VIII. 1996, M. R. Tarrier leg., coll. V. Tshikolovets.

16. ♀, Morocco, Moyen Atlas mér., djebel Laawarit, S Boulemane, Ait-Kermouss, 1700–2300 m, 1–15. IX. 1996, M. R. Tarrier leg., coll. V. Tshikolovets.