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SOME NEW ODONATA FROM PERU

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ABSTRACT

From 1980 till 2016 I have got Odonata from Peru. Many deliveries with Odonata I got from several persons and I have collected a lot of Odonata species of Peru. All Odonata results were noted in a book and a database. This contribution contains the Odonata from Peru of the database.

INTRODUCTION

From 1980 till 2016 I have got Odonata from Peru. Many deliveries with Odonata I got from several persons over the time. The Odonata I have identified with the help of many literatures during the long time. The new species for my collection I have integrated in my collection. Hoffmann (2009) has reported 481 Species from Peru.

METHODS

Each individual results were noted in a book and given to a database. For identification the genitalia of male or female Odonata were prepared, photographed with the help of my binocular microscope using several references. All photographs I have made. One or more reference from a database I used and noted the figure numbers, after which I could identify these species. Number of specimens: No. /year (e. g. 100/2000), Abbreviations: m = male, f = female.

RESULTS

The following list contains the Odonata from Peru of the database. Nearly for all locations a geo-reference is described (Fig. 1).

For some species images are integrated. Most of them I have made. 1994 I have identified a lot of Odonata of the Museum Lima coll. in Peru, which I have got from Joachim Hoffmann.

Zygoptera

Calopterygidae: *Hetaerina amazonica* Sjöstedt, 1918, Peru, Iquitos, Loreto, S -4. 232473 – W -74. 217933, 95/2016: w, 2014-2015, leg. Josef Galic, Garrison, 1990, Heckman, 2008 *Hetaerina duplex* Selys, 1869, Peru, CA, Hacienda Monteseo, 1200-1400m, S -7. 1630 – W -79. 860, 71/72/1994: 2 m, 17. 05. 1982, G. Lamas & E. Perez leg., „det. D. Paulsen 11/82”, Garrison, 1990, Peru, MD, Puerto Maldonado, Trocha B, 800m, S -13. 00 – W -70. 00, 139/1994: w, 21. 02. 1990, E. Perez leg., ‘Cuzco Amazonico’; Garrison, 1990, Tsuda, 1991, Peru, PI, Canchoques, 1200-1300m, S -5. 360000 – W -79. 613000, 69/70/1994: 1 m, 1 w, 13. 06. -17. 06. 1981, G. Lamas leg., ‘Chanchaque’, “det. D. Paulsen 1981”, Garrison, 1990

Hetaerina caja (Drury, 1773), Peru, CA, Tembladera, 350m, S -7. 1630 - W -79. 860, 359/360/361/362/1995: 4 m, 12. 03. 1979, P. Hocking leg., Garrison, 1990, Peru, MD, La Torre, 300m, Boca Rio, S -14. 00 –W -72. 00, 57/1994: m, 29. 09. 1981, G. Lamas leg., “papavarina det. D. Paulsen 1981”, Garrison, 1990, Peru, MD, Quebrada SCA, S -13. 00 - W -70. 00, 366/1995: w, 5. 04. 1990, Mus. Lima, Peru coll., ‘SCA’, Garrison, 1990, Peru, MD, Z. R. Tambopata, R. Tambopata, S -13. 00 – W -69. 6670, 367/1995: w, 28. 04. 1986, Mus. Lima, Peru coll., ‘DST’, Garrison, 1990, Peru, PI, Morropou, 135m,

S -5. 160 - W -79. 990, 107/1994: m, 13. 04. 1977, P. Hocking leg., 'Morropon', Garrison, 1990, Peru, SM, Tarapoto, 400m, S -6. 520 - W -76. 380, 81/1994: w, 15. -19. 09. 1975, G. Lamas leg., "sanguineum det. D. Paulsen, 1981", Garrison, 1990, Peru, TU, Hualtaco, Oda. Angostara, 50m, S -4. 00 - W -81. 00, 53/1994: m, 12. 06. 1975, G. Lamas leg., "caja det. D. Paulsen, 1981", Garrison, 1990, Peru, TU, La Totorá, Matopalo, 100m, S -3. 6970 - W -80. 2150, 51/52/1994: 1 m, w, 2. -17. 04. 1975, G. Lamas leg., "caja det. D. Paulsen, 1981", Garrison, 1990

Hetaerina charca Calvert, 1909, Peru, HU, Codo del Pozuzo, S -9. 660 - W -75. 520, 47/1994: m, Mus. Lima, Peru coll., 'HU, Pozuzo', det. Paulsen', Garrison, 1990, Peru, Iquitos, Loreto, S -4. 232473 - W -74. 217933, 105/111/2016: 2 m, 2014-2015, leg. Josef Galic, Heckman, 2008, Peru, SM, Hera, 15km a/sur de Moyobamba, S -6. 040 - W -76. 960, 48/1994: m, 08. 47, Mus. Lima, Peru coll., 'Moyomamba', det. D. Paulsen 1981', Garrison, 1990

Hetaerina laesa Hagen in Selys, 1853, Peru, HU, Las Palmas, S -9. 360 - W -75. 960, 83/1994: w, 30. 11. 1965, P. Hocking leg., "sanguineum det. D. Paulsen, 1981", Garrison, 1990, Peru, LO, Iquitos, S -3. 7750 - W -73. 260, 363/1995: m, 08. 1938, Consul Klug leg., Garrison, 1990, Schmidt, 1942, Peru, MD, La Torre, 300m, Boca Rio, S -14. 00 - W -72. 00, 54/55/56/58/59/60/61/117/1994: 6 m, 2 w, 29. 09. 1981, G. Lamas leg., "papavarina det. D. Paulsen, 1981", Garrison, 1990, Peru, MD, Puerto Maldonado, 30km SW, Explorer's Inn, R. Tambopata, S -13. 00 - W -69. 6670, 62/1994: m, 11. 11. 1979, L. Pearson & B. Heppner leg., "papavarina det. D. Paulsen, 1981", Garrison, 1990, Peru, MD, Puerto Maldonado, S -12. 60 - W -69. 20, 7/8/48/1979: 2 m, 1 w, 20. 08. 1973, Lehmann, Bergkamen coll., Peru, MD, Puerto Maldonado, Camp 5, S -13. 00 - W -70. 00, 103/104/105/1994: 3 m, 25. 09. 1992, M. Butt leg., Garrison, 1990, Peru, MD, Z. R. Tambopata, Comino a Cocococha, R. Tambopata, S -13. 00 - W -69. 6670, 364/1995: m, 27. 04. 1986, Mus. Lima, Peru coll., Garrison, 1990

Hetaerina occisa Hagen in Selys, 1853, Peru, 'Peru', S -10. 00 - W -75. 00, 111/1994: m, o. D., Mus. Lima, Peru coll., Garrison, 1990, Peru, AM, CARR. R. M. Chachapoyas Cultivados, S -6. 240 - W -77. 860, 356/1995: m 30. 06. 1986, o. D., Garrison, 1989, Peru, AM, San Juan, 1000m, frente Bagua Grande, S -5. 6830 - W -78. 450, 106/115/118/119/120/121/122/123/1994: 6 m, 2 w, 21. 06. 1978, P. Hocking leg., Garrison, 1990, Peru, HU, Las Palmas, 1000m, S -9. 360 - W -75. 960, 108/109/110/1994: 3 m, 30. 11. 1965, P. Hocking leg., Garrison, 1990, Peru, JU, Alto Yurinaqui, 1000m, S -10. 0780 - W -75. 1020, 101/114/1994: 2 m, 17. 07. 1987, P. Hocking leg., Garrison, 1990, Peru, JU, Satipo, S -11. 260 - W -74. 6850, 67/1994: m, 07. 1940, Mus. Lima, Peru coll., 12. 3. 1994, Höxter, "macropus det. D. Paulsen 1981", Garrison, 1990, Hoffmann, 2009, Peru, SM, Tarapoto, S -6. 520 - W -76. 380, 73/1994: m, Mus. Lima, Peru coll., "macropus det. D. Paulsen, 9/82", Garrison, 1990, Peru, SM, Tarapoto, 400m, S -6. 520 - W -76. 380, 68/1994: w, 15. -19. 09. 75, G. Lamas leg., "macropus det. D. Paulsen, 1981", Garrison, 1990

Hetaerina proxima Selys, 1853, Peru, JU, Chanchamayo, San Ramon, 700-1100m, S -11. 00 - O -76. 00, 2/7/8/1982: 3 m, 11. 09. 1977, Lehmann, Bergkamen coll.

Hetaerina rosea Selys, 1853, Peru, CU, Pilcopata, 600m, S -13. 070 - W -71. 1630, 49/50/1994: 1 m, 1 w, 6. -8. 02. 1975, G. Lamas leg., "det. D. Paulsen, 1981", Garrison, 1990, Peru, MD, Puerto Maldonado, 15km E, 250m, S -13. 00 - W -70. 00, 116/1994: m, 17. 07. 1989, G. Saravia leg., Garrison, 1990, Peru, MD, Puerto Maldonado, Camp 2, S -13. 00 - W -70. 00, 7/88/89/90/91/92/93/94/95/100/1994: 4 m, 6 w, 27. 08. 1992, M. Butt leg., Garrison, 1990, Peru, MD, Puerto Maldonado, Quebrada, black water stream n. "Cusco Amazonico", S -13. 3330 - W -72. 1670, 141/1994: m, 27. 01. 1994, Günther Peters leg., Peru, Quincemil/Pjto. Unteo, S -13. 20 - W -70. 70, 10/11/1979: 2 m, 9. 1973, Lehmann, Bergkamen coll.

Hetaerina sanguinea Selys, 1853, Peru, S -10. 00 - W -75. 00, 112/113/1994: 2 m, o. D., Mus. Lima, Peru coll., Garrison, 1990, 365/1995: w, o. D., Mus. Lima, Peru coll., Garrison, 1990, Peru, CU, Pilcopata 600m, S -13. 070 - W -71. 1630, 84/1994: m, 13. 12. 1979, G. Lamas leg., "det. D. Paulsen, 1981", Garrison, 1990, Peru, HU, Cueva de las Pavas, S -10. 00 - W -77. 00, 82/1994: m, 2. 06. 1978, G. Lamas leg., "det. D. Paulsen, 1981", Garrison, 1990, Peru, JU, Alto Yurinaqui, 1000m, S -10. 0780 - W -75. 1020, 131/132/1994-357/1995: 3 m, 27. 09. 1984, P. Hocking leg., Garrison, 1990, Peru, JU, Alto Yurinaqui, 900m, S -10. 0780 - W -75. 1020, 85/86/1994: 2 m, 4. 05. 1969, P. Hocking leg., "det. D. Paulsen, 1981", Garrison, 1990, Peru, JU, Potochari, S -11. 00 - W -76. 00, 133/134/135/136/137/138/1994-358/1995: 7 m, 19. 12. 1984, E. Perez leg., Garrison, 1990, Peru, JU, Puerto Union, 700m, R. Perene, S -10. 9170 - W -75. 250, 76/77/1994: 2 m, 8. 07. 1975, G. Lamas leg., "det. D. Paulsen, 1981", Garrison, 1990, Peru, JU, Satipo, S -11. 260 - W -74. 6850, 75/1994: m, 7. 1940, Mus. Lima, Peru coll. "det. D. Paulsen, 1981", Garrison, 1990, Peru, LO, 100 mi NE Iquitos, Sucusari R. nr. Napo R., Shimigay Channal, S -2. 8170 - W -73. 10, 194/195/1993: 2 m, 29. 06. 1990, S. Dunkle leg., Explornapo Camp, Peru, LO, Iquitos, S -3. 7750 - W -73. 260, 9/1979: m, 05. 1979, Galic, Josef, Peru, MD, ParquesNac. Manu, E. Pakitza, S -11. 930 - W -71. 260, 102/1994: m, 09. 87, L. Reyes A. leg., Garrison, 1990, Peru, PA, Alto Yurinaqui, 900m, S -10. 720 - W -75. 1450, 124/125/126/127/128/129/130/1994: 7 m, 16. 05. 1973, 2. 05. 1983, P. Hocking leg., Garrison, 1990, Peru, PA, Oxapampa, Mayo, S -10. 580 - W -75. 40, 477/478/1996: 2 m, 07. 1986, Lehmann, Bergkamen coll., Garrison, 1990, Peru, SM, Tarapoto, S -6. 520 - W -76. 380, 74/1994: m, Mus. Lima, Peru coll., "det. D. Paulsen, 9/82", Garrison, 1990, Peru, SM, Tarapoto, 400m, S -6. 520 - W -76. 380, 78/79/80/1994: 3 m, 15. -19. 09. 1975, G. Lamas leg., "det. D. Paulsen, 1981", Garrison, 1990,

Mnesarete aenea (Selys, 1853), Peru, LO, Mishana, Est. Biol. Callicebus, 150m, R. Nanay, S -3. 8980 - W -73. 460, 63/1994: w, 16. 01. 1980, G. Lamas leg., 12. 03. 94 v. Hoffmann, Höxter: „aenea det. D. Paulsen, 1981", Hoffmann, 2009, Peru, MD, Puerto Maldonado, Camp 2, S -13. 00 - W -70. 00, 96/97/98/1994: 3 m, 27. 08. 1992, M. Butt leg., Garrison, 1996, Peru, MD, Puerto Maldonado, Camp 3, S -13. 00 - W -70. 00, 162/1994: m, 30. 08. 1992, M. Butt leg.

Mnesarete cupraea (Selys, 1853), Peru, LO, Iquitos, S -3. 7750 - W -73. 260, 267/1995: w, Aug. 1938, K. Klug leg., Garrison, 1998, Peru, MD, La Torre, 300m, Boca Rio, S -14. 00 - W -72. 00, 64/1994: w, 16. 02. 1982, G. Lamas leg., "cupraea det. D. Paulsen, 1982", Selys, 1869, Peru, MD, Pakitza, Trocha 2, Quebrada, S -11. 930 - W -71. 260,

265/1995: w, 20. 09. 1988, H. Blancas Pro. Leg., Garrison, R. W., 1998, Peru, MD, Pto. Maldonado, 30km SW, Explorer's Inn, R.

Tambopata, S -13. 00 – W -69. 6670, 65/1994:m, 17. 06. 1977, Dennis Paulsen leg., “*cupraea* D. R. Paulsen Coll. ”, Racenis, 1968, Peru, MD, Puerto Maldonado, Camp 2, S -13. 00 – W -70. 00, 99/1994: m, 24. 08. 1992, M. Butt leg., Racenis, 1968, Fraser, 1946, Selys, 1854, Peru, MD, Puerto Maldonado, Camp 5, S -13. 00 – W -70. 00, 515/516/517/518/1994: 4m, 29. 09. 1992, M. Butt leg., Peru, MD, Z. R. Tambopata, R. Tambopata, S -13. 00 – W -69. 6670, 368/1995: w, 28. 04. 1986, K. Klug leg.



Mnesarete cupraea (Selys, 1853)

Mnesarete devillei (Selys, 1880), Peru, JU, Satipo, S -11. 260 – W -74. 6850, 66/1994: m, 07. 1940, Mus. Lima, Peru coll., „*devillei* det. D. Paulsen, 1981“, Fraser, 1946, Peru, MD, P. V. Pakitza, 350m, S -11. 930 – W -71. 260, 519/266/1994: 1 m, 1 w, 04. 1991, Bo HO'RPUENZ leg., Peru, MD, Pakitza, Trocha 2, Quebrada, S -11. 930 – W -71. 260, 372/1995: m, 20. 09. 1988, H.

Blancas Pro. Leg., Peru, MD, Parques Nac. Manu, E. Pakitza, S -11. 930 – W -71. 260, 369/370/371/1995: 3 m, 09. 1988, L. Reyes A. leg., Peru, PA, S -10. 00 – W -75. 00, 374/1995: m, 04. 1996, Peru, PA, NW Iscozacín, Qbrada, Castilla, 345m, S -10. 1670 – W -75. 250, 373/1995: m, 8. 06. 1987, P. Lozada leg.

Ormenophlebia saltuum (Ris, 1918), Peru, JU, Satipo, S -11. 260 – W -74. 6850, 46/1994: m, 07. 40, Mus. Lima, Peru coll., “*saltuum* det. D. Paulsen, 1981”, Ris, 1918

Dicteriastidae *Heliocharis amazona* Selys, 1853, Peru, MD, La Torre, 300m, Boca Rio, S -14. 00 – W -72. 00, 185/1994: m, 02. 1982, G. Lamas leg., ‘H. libera det. D. Paulson, 1982’, Kennedy, 1920

Polythoridae *Polythore procera* (Selys, 1869), Peru, HU, Tingo Maria, S -8. 00 – W -76. 250, 148/1992: m, 15. 05. 1987, coll. M. Büche, Peru, Iquitos, Loreto, S -4. 232473 – W -74. 217933, 61/42/57/2016: 1 m, 2 w, 2014-2015, leg. Josef Galic, Heckman, 2008, BICK & BICK, 1986, Heckman, 2008



Polythore procera (Selys, 1869)

Polythore lamerceda Bick & Bick, 1985, Peru, Hualklagas, Uchiza, S -7. 290615 – W -76. 196102, 37/2012: m, 07. 1976, coll. Josef Galic, Bick & Bick, 1985



Polythore lamerceda Bick & Bick, 1985

Polythore picta (Rambur, 1842), Peru, HU, Tingo Maria, S -8. 00 – W -76. 250, 149/150/1992: 2 m, 15. 05. 1987, coll. M. Büche, Peru, Iquitos, Loreto, Nautaroad, S -4. 232473 – W -74. 217933, 4/2014: m, 07. 1996, col.

Josef Galic, Schmidt, 1942, Schmidt, 1932, Peru, JU, Satipo, S -11. 260 – W -74. 6850, 1/1983: m, 15. 05. 1983, coll. Gerstberger, Bick & Bick, 1985, Peru, Satipo, 629m, S -11. 254228 – W -74. 636736, 3/2014: m, 02. 1999, leg. Josef Galic, Schmidt, 1942, Schmidt, 1932

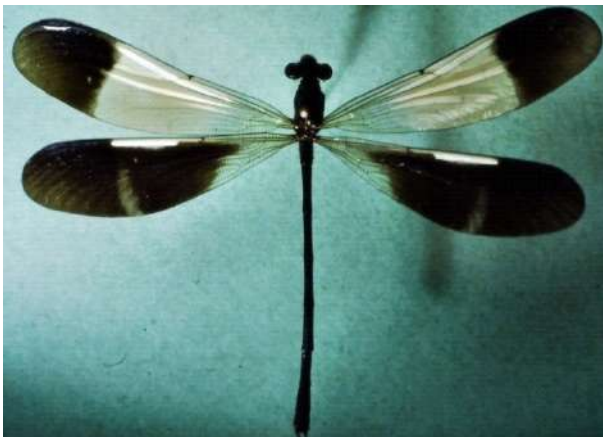
Polythore derivata (McLachlan, 1881), Peru, JU, Satipo, S -11. 260 – W -74. 6850, 80/1982: m, o. D., Ib. ‘1982, Bick & Bick, 1985, Peru, North Peru, Iquitos, S -2. 8170 – W -73. 10, 81/1982: w, June, Bick & Bick, 1985

Polythore boliviana (McLachlan, 1878), Peru, Iquitos, Loreto, S -4. 232473 – W -74. 217933, 10/43/44/45/46/47/58/59/60/62/63/64/65/66/67/68/69/70/2016: 3 m, 15 w, 2014-2015, leg. Josef Galic, Heckman, 2008, Bick & Bick, 1986, Peru, Satipo, 629m, S -11. 254228 – W -74. 636736, 10/1980: m, Juni 1980, Ib. ‘1980, Bick & Bick, 1986



Polythore boliviana (McLachlan, 1878)

Polythore ornata (Selys, 1879), Peru, Calabaza, 2000m, S -4. 506390 – W -80. 123610, 29/2011: m, 07. 1976, leg. Josef Galic, Bick & Bick, 1986, Peru, HU, Tingo Maria, S -8. 00 – W -76. 250, 1/1973: m, 1971, Lehmann, Bergkamen coll. Bick & Bick, 1986, Peru, JU, Chanchamayo, San Ramon, 700-1100m, S -11. 00 – W -76. 00, 14/37/1979: 2 m, 10. 05. 1972, Lehmann, Bergkamen coll., Bick & Bick, 1986, Peru, JU, Satipo, S -11. 260 – W -74. 6850, 10/1983: m, Mai 1983, Gerstberger, Bick & Bick, 1986



Polythore ornata (Selys, 1879)

Polythore neopicta Bick & Bick, 1990, Peru, Iquitos, Loreto, S -4. 232473 – W -74. 217933, 9/11/12/13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31/48/49/112/2016: 25 m, 2014-2015, leg. Josef Galic, Heckman, 2008, Bick & Bick, 1986, Bick & Bick, 1985



Polythore neopicta Bick & Bick, 1990

Polythore aurora (Selys, 1879), 34/2016: m, 2014-2015, leg. Josef Galic, Heckman, 2008, Bick & Bick, 1986, Peru, Iquitos, Loreto, S -4. 232473 – W -74. 217933, 35/36/38/39 /40/41 /50/51/52/53/54/55/56/85/92/93/94/2016: 4 m, 13 w, 2014-2015, leg. Josef Galic, Heckman, 2008, Bick & Bick, 1986, Peru, Iquitos, Loreto, 1, S -4. 232473 – W -74. 217933, 99/2016: w, 2014-2015, leg. Josef Galic, Bick & Bick, 1986, Peru, LO, Iquitos, S -3. 7750 – W -73. 260, 11/12/1980-5/1982: 2 m, 1w, Juni 1980, Ib. '1980, Bick & Bick, 1986



Polythore aurora (Selys, 1879)

Polythore mutata (McLachlan, 1881), Peru, Iquitos, Loreto, S -4. 232473 – W -74. 217933, 33/37/2016: 1 m, 1 w, 2014-2015, leg. Josef Galic, Heckman, 2008, Bick & Bick, 1986, Peru, Iquitos, Loreto, Nautaroad, S -4. 232473 – W -74. 217933, 5/6/2014: 2 m, 07. 1996, col. Josef Galic, Bick & Bick, 1986, Peru, LO, Iquitos, S -3. 775000 – W -73. 260000, 82/1982: w, 06. 1980, Bick & Bick, 1986



Polythore mutata (McLachlan, 1881)

Polythore vittata (Selys, 1869), Peru, Iquitos, Loreto, S -4. 232473 – W -74. 217933, 32/2016: w, 2014-2015, leg. Josef Galic, Heckman, 2008

Chalcopteryx rutilans (Rambur, 1842), Peru, Iquitos, Loreto, '2', S -4. 232473 – W -74. 217933, 71/72/2016: 2 w, 2014-2015, leg. Josef Galic, Heckman, 2008, Peru, MD, Puerto Maldonado, Camp 3, S -13. 00 – W -70. 00, 212/1994: m, 30. 08. 1992, M. Butt leg.

Megapodagrionidae. *Heteragrion bariai* DeMarmels, 1989, Peru, MD, Puerto Maldonado, Camp 2, S -13. 00 – W -70. 00, 160/161/1994: 2 m, 24. 08. 1992, M. Butt leg., DeMarmels, 1989, Peru, MD, Puerto Maldonado, Quebrada, black water stream n. “Cusco Amazonico”, S -13. 3330 – W -72. 1670, 142/1994: m, 27. 01. 1994, Günther Peters leg.

Heteragrion mitratum Williamson, 1919, Peru, MD, Puerto Maldonado, S -12. 60 – W -69. 20, 113/1979: m, 20. 08. 1973, H. Lehmann, Holzweiler coll., Williamson, 1919

Coenagriidae *Ischnura (Ceratura) capreolus* (Hagen, 1861), Peru, S -10. 00 – W -75. 00, 264/1995: w, 19. 08. 1975, Mus. Lima, Peru coll., Ris, 1918, Calvert, 1908, Peru, ‘dibajo A’, R. de Aja, S -15. 00 – W -75. 00, 257/1995: m, 8. 05. 1975, Mus. Lima, Peru coll., Ris, 1918, Calvert, 1908, Peru, Lima, Laguna de Villa, S -12. 30 – W -76. 9380, 258/259/260/261/262/1995: 1 m, 4 w, 5. 07. 1975, Mus. Lima, Peru coll., Ris, 1918, Calvert, 1908, Peru, Lima, Laguna de Villa, S -12. 30 – W -76. 9380, 263/1995: w, 8. 05. 1975, Mus. Lima, Peru coll., Ris, 1918, Peru, Lima prov., R. Cienegrilla, S -12. 1670 – W -76. 750, 145/146/147/1994: 2 m, 1 w, 23. 01. 1994, Günther Peters leg., Peru, Nazca, 500m, R. de Aja, S -15. 00 – W -75. 000000, 256/1995: m, 19. 10. 1989, Mus. Lima, Peru coll., Ris, 1918, Calvert, 1908



Ischnura (Ceratura) capreolus (Hagen, 1861)

Ischnura ramburii (Selys in Sagra, 1857), Peru, Lima, Laguna de Villa, S -12. 30 – W -76. 9380, 334/335/1994: 1 m, 1 w, 31. 01. 1994, Günther Peters leg., Ris, 1916, Rio Pisco estuary, Typha veget., S -13. 6830 – W -76. 20, 6/1995: m, 4. 04. 1952, H. -W. & M. Koepcke leg., Calvert, 1895, Ris, 1918, Needham, Heywood, 1929, 7/8/9/10/1995: 2 m, 2 w, 4. 04. 1952, H. -W. & M. Koepcke leg., Calvert, 1895, Ris, 1918, Needham, Heywood, 1929, Peru, SM, Tarapoto, S -6. 520 – W -76. 380, 146/1981: m, 01. 81, Josef Galic leg., Peru, Supe (S of), little Lagune in desert area, <5m, S -10. 80 – W -77. 750, 11/1995: m, 26. 04. 1952, H. -W. & M. Koepcke leg., Calvert, 1895, Ris, 1918, Needham, Heywood, 1929, Peru, Supe (S of), little Lagune in desert area, <5m, S -10. 80 – W -77. 750, 12/13/14/15/1995: 2 m, 2 w, 26. 04. 1952, H. -W. & M. Koepcke leg., Calvert, 1895, Ris, 1918, Needham, Heywood, 1929, Peru, o. D., S -13. 2170 – W -59. 5670, 144/2010: w, 1. 04. 1980, leg. Heinz Karbaum.

Acanthagrion ascendens Calvert, 1909, Peru, MD, Puerto Maldonado, Camp 5, S -13. 00–W -70. 00, 204/205/206/1994: 3 m, 28. 09. 1992, M. Butt leg., Racenis, 1958, Calvert, 1909, Leonard, 1977

Acanthagrion floridense Machado, 1946, Peru, MD, Pto. Maldonado, 30km SW, Explorer’s Inn, R. Tambopata-small oxbow lake, S -13. 00–W -69. 6670, 187/1994: m, 16. 06. 1977, Dennis Paulsen leg., Leonard, 1977, Peru, MD, Pto. Maldonado, 30km SW, Explorer’s Inn, R. Tambopata-swamp #2, S -13. 00 – W -69. 6670, 189/1994: m, 17. 06. 1977, Dennis Paulsen leg., Leonard, 1977, Peru, MD, Puerto Maldonado, Camp 5, S -13. 00 – W -70. 00, 210/1994: m, 27. 09. 1992, M. Butt leg., Leonard, 1977, Peru, UC, Pucallpa, Proc. IVITA, Embalse A-1, S -8. 40 – W -74. 7370, 191/193/194/195/1994: 3 m, 1 w, 9. 07. 1974, V. Raez leg., Leonard, 1977, Peru, UC, Pucallpa, Proc. IVITA, Embalse No. 2, S -8. 40 – W -74. 7370, 192/1994: m, 17. 07. 1974, V. Raez leg., Leonard, 1977, Peru, UC, Pucallpa, Proc. IVITA, Embalseenconst, S -8. 40 – W -74. 7370, 196/197/198/199/1994: 4 m, 23. 07. 1974, V. Raez leg., Leonard, 1977

Acanthagrion ascendens Calvert, 1909, Peru, MD, Puerto Maldonado, Camp 5, S -13. 00 – W -70. 00, 203/211/1994: 2 m, 28. 09. 1992, M. Butt leg., Racenis, 1958, Gloyd in Leonard, 1977

Acanthagrion dichrostigma De Marmels, 1985, Peru, MD, Pto. Maldonado, 30km SW, Explorer’s Inn, R. Tambopata-swamp #2, S -13. 00 – W -69. 6670, 188/1994: m, 17. 06. 1977, Dennis Paulsen leg., Leonard, 1977

Acanthagrion minutum Leonard, 1977, Peru, MD, Pto. Maldonado, 30km SW, Explorer’s Inn, R. Tambopata-oxbow lake (“Coco-cocha”), S -13. 00 – W -69. 6670, 190/1994: m, 15. 06. 1977, Dennis Paulsen leg., Leonard, 1977

Acanthagrion cuyabae Calvert, 1909, Peru, MD, Cuzco Amazonico, Lago Sandoval, S -13. 5830 – W -71. 8670, 330/1994: m, 28. 01. 1994, Günther Peters leg., Leonard, 1977, Peru, MD, Pto. Maldonado, 30km SW, Explorer’s Inn, R. Tambopata, S -13. 00 – W -69. 6670, 186/1994: m, 16. 06. 1977, Dennis Paulsen leg., Leonard, 1977

Acanthagrion yungarum Ris, 1918, Peru, JU, Chanchamayo, San Ramon, 700-1100m, S -11. 00 – W -76. 00, 15/1979: m, Jan. 1979, Lehmann, Bergkamen coll., Leonard, 1977, Schmidt, 1942

Mesamphiagrion laterale (Selys, 1876), Peru, Bei Chucuito, Titicaca-See, S -15. 883333 – W -69. 916667, 147/148/2019: 2 m, 14. 03. 1953, H. -W. u. M. Koepcke leg., Garrison, von Ellenrieder& Louton, 2010



Mesamphiagrion laterale (Selys, 1876)

Protallagma titicacae (Calvert, 1909), Peru, 22km upsteamed to Chongoyape, Rio Reque, (=Rio Canchay II), 200m, S -6. 633333 – W -79. 383333, 26/1995: 17. 07. 1953, H. -W. u. M. Koepcke leg., Kennedy, 1939, Peru, At Chucuito, S -15. 883333 – W -69. 916667, 23/1995: m, 14. 03. 1953, H. -W. u. M. Koepcke leg., Kennedy, 1939

Oxyallagma dissidens (Selys, 1876), Peru, La Granadilla, Hacienda Taulis, Carp Pond, 1700m, N -6. 833333 – W -79. 166667, 1/1995: Ew, 29. 02. -1. 03. 52, H. -W. u. M. Koepcke leg., Kennedy, 1939, Heckman, 2008



Oxyallagma dissidens (Selys, 1876)

Argia adamsi Calvert, 1902, Peru, MD, P. V. Pakitza, 350m, S -11. 930 – W -71. 260, 520/1994: m, 04. 1991, Bo HO'RPUENZ leg., Westfall and May, 1953

Argia cuprea (Hagen, 1861), Peru, CU, Limatambo, 2200m, S -13. 488040 – W -71. 449379, 147/2000: w, 09, 1997, W. Braun coll., Westfall & May, 1996, Garrison et al., 2010



Argia cuprea (Hagen, 1861)

Argia gerhardi Calvert, 1909, Peru, JU, Chanchamayo, San Ramon, 700-1100m, S -11. 00 – O -76. 00, 16/129/1979: 2 m, 1. 05. 1972, Lehmann, Bergkamen coll., Peru, MD, Cuzco Amazonico, Lago Sandoval, S -13. 5830 – W -71. 8670, 331/332/1994: 2 m, 28. 01. 1994, Günther Peters leg., Calvert, 1909.

Argia inculta Hagen i. Selys, 1865, Peru, Atacama-Desert above Tacna, stream valley, S -18. 00 – W -70. 2330, 333/1994: m, 2. 02. 1994, Günther Peters leg., Hagen & Calvert, 1902, Peru, La Florida-Puente Mundaca, R. Sana, S -6. 8830 – W -79. 10, 2/1995: Em, 29. 02. -1. 03. 52, H. -W. u. M. Koepcke leg.,

Hagen & Calvert, 1902, Peru, Lima SE, Cieneguilla, Rio Luzin, S -12. 1330 – W -76. 7830, 48/149/1994: 2 w, 23. 01. 1994, Günther Peters leg., Schmidt, 1942, Peru, Sn. Vincente, S, R. Canete-estuary, S -13. 1330 – W -76. 40, 3/4/5/1995: 3 m, 2. 04. 1952, H. -W. u. M. Koepcke leg., Hagen & Calvert, 1902

Protoneuridae *Protoneura paucinervis* Selys, 1886, Peru, MD, Cuzco Amazonico, Lago Sandoval, S -13. 5830 – W -71. 8670, 326/327/328/329/1994: 2 m, 2 w, 28. 01. 1994, Günther Peters leg., Selys, 1886

Protoneura scintilla Gloyd, 1939, Peru, MD, Puerto Maldonado, Camp 3, S -13. 00 – W -70. 00, 202/1994: m, 31. 08. 1992, M. Butt leg., Tsuda, 1991, Gloyd, 1939

Epipleoneura ocuene De Marmels, 1989, Peru, MD, Puerto Maldonado, Camp 5, S -13. 00 – W -70. 00, 207/1994: m, 28. 09. 1992, M. Butt leg., De Marmels, 1989

Psaironeura tenuissima (Selys, 1886), Peru, MD, Puerto Maldonado, Camp 3, S -13. 00 – W -70. 00, 200/201/208/209/1994: 4m, 1. 09. -27. 09. 1992, M. Butt leg., DeMarmels, 1989, Williamson, 1915, Tsuda, 1991

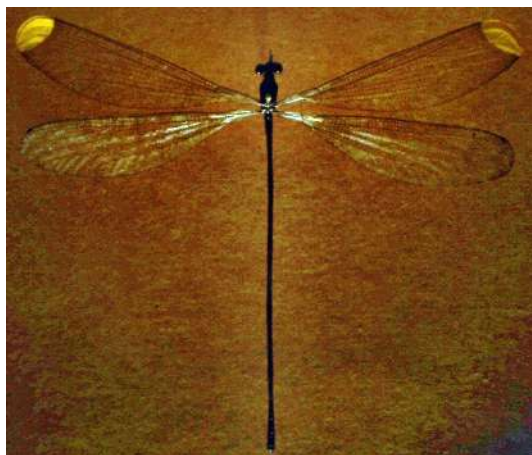
Neoneura rubriventris Selys, 1860, Peru, MD, Puerto Maldonado, Quebrada, black water stream n. "Cusco Amazonico", S -13. 3330 – W -72. 1670, 143/144/1994: 2 m, 27. 01. 1994, Günther Peters leg., Williamson, 1917, Racenis, 1959, Garrison, 1999

Pseudostigmatidae *Mecistogaster amalia* (Burmeister, 1842), Peru, HU, Tingo Maria, S -8. 00 – W -76. 250, 129/128/1995: 1 Em, 1 m, 07. 1988, Lehmann, Bergkamen coll., Ris, 1916, Ris, 1918, Peru, Iquitos, Loreto, S -4. 232473 – W -74. 217933, 103/2016: w, 2014-2015, leg. Josef Galic,

Heckman, 2008, Peru, Iquitos, Loreto, '1', S -4. 232473 – W -74. 217933, 104/2016: m, 2014-2015, leg. Josef Galic, Heckman, 2008, Peru, JU, Satipo, S -11. 2600 – W -74. 6850, 3/1981: m, 1980, Ib. '1981, Peru, LO/SM, Iquitos or Sarapoto, S -4. 00 – W -74. 00, 1/1978: w, 01. /02. 1978, Josef Galic leg.,

Mecistogaster Lucretia (Drury, 1773), Peru, S -10. 00 – W -75. 00, 56/1979: w, o. D., Lehmann, Holzweiler coll., Peru, LO, Iquitos, S -3. 7750 – W -73. 260, 4/1981-11/1983-4/1986: 2 m, 1 w, W. Zöller coll., Peru, Rodriguez de Mendoza, 1600m, S -6. 220940 – W -77. 652050, 30/2011: m, 07. 1976, leg. Josef Galic, Heckman, 2008

Microstigma anomalum Rambur, 1842, Peru, MD, Puerto Maldonado, S -12. 60 – W -69. 20, 1/1974-36/1979: m, 10. 07-16. 12. 1973, Ib. '1974, Berlin, Peru, S -13. 217000 – W -59. 567000, 141/2010: m, 1. 04. 1980, leg. Heinz Karbaum.



Microstigma anomalum Rambur, 1842

Microstigma rotundatum Selys, 1860, Peru, Iquitos, Loreto, S -4. 232473 – W -74. 217933, 100/101/102/2016: 3 m, 2014-2015, leg. Josef Galic, Heckman, 2008, Peru, Iquitos, Loreto, '1', S -4. 232473 – W -74. 217933, 98/2016: m, 2014-2015, leg. Josef Galic, Heckman, 2008, Peru, LO, Iquitos, S -3. 7750 – W -73. 260, 5/6/7/8/9/10/1980-5/1986-831/1997-6/17/18/19/20/21/22/23/24/25/2017: 11m, 6 w, 15. 06. 1980, 10. 2008, Ib. '80, Berlin, Peru, LO, Iquitos, 100m, S -3. 7750 – W -73. 260, 832/1997: m, 18. 05. 1993, Lehmann, Bergkamen coll., Schmidt, 1958



Microstigma rotundatum Selys, 1860

Anomisma abnorme McLachlan, 1877, Peru, LO, Iquitos, S -3. 7750 – W -73. 260, 2/3/1984: 1 m, 1 w, 15. 06. 1980, 'Ib. '1980

Megaloprepus brevistigma Selys, 1860, Peru, Iquitos, Loreto, S -4. 232473 – W -74. 217933, 96/2016: m, 2014-2015, leg. Josef Galic, Heckman, 2008, Peru, Iquitos, Loreto, '1', S -4. 232473 – W -74. 217933, 97/2016: w, 2014-2015, leg. Josef Galic, Heckman, 2008

Anisoptera Aeshnidae *Rhinaeshna brevifrons* Hagen, 1861, Peru, Apurimac Prov., Abancay, 2500m-3000m, S -13. 6330 – W -72. 850, 3/4/1999/180/2000: 2 m, 1 w, VI-VII, 1995, W. Braun coll.

Gynacantha adela Martin, 1909, Peru, PA, Oxapampa, Mayo, S -10. 580 –W -75. 40, 385/1995: w, VII. 1986, Williamson, 1923, Martin, 1909

Gynacantha gracilis (Burmeister, 1839), Peru, Iquitos, Loreto, S -4. 232473 – W -74. 217933, 76/2016: m, 2014-2015, leg. Josef Galic, Heckman, 2008, Peru, JU, Satipo, S -11. 260 – W -74. 6850, 12/1983: m, Jan. 1983, Gerstberger

Gynacantha membranalis Karsch, 1891, Peru, Iquitos, Loreto, S -4. 232473 –W -74. 217933, 6/7/8/2016: 1 m, 2 w, 2014-2015, leg. Josef Galic, Heckman, 2008

Triacanthagyna satyrus Martin, 1909, Peru, LO, Iquitos, S -3. 7750 –W -73. 260, 1/1986: Em, W. Zöller

Triacanthagyna septima (Selys, 1857), Peru, Prov. Ucayali, Yarinacocla at 'la Perla', S -8. 363156 – W -74. 567717, 198/197/199/200/2012: 2 m, 2 w, 19. 10. 1997, leg. Andreas Arnold, Ellenrieder & Garrison, 2003, Heckman, 2006

Triacanthagyna williamsoni von Ellenrieder & Garrison, 2003, 201/2012: m, 19. 10. 1997, leg. Andreas Arnold, Heckmann, 2006

Gomphidae *Epigomphus obtusus* Selys, 1869, Peru, Tacna desert, little stream, S -18. 00 – W -70. 2330, 336/1994: m, 2. 02. 1994, Günther Peters leg., Ris, 1916

Epigomphus paludosus Hagen in Selys, 1854, Peru, Iquitos, Loreto, S -4. 232473 – W -74. 217933, 77/80/83/84/2016: 4 m, 2014-2015, leg. Josef Galic



Epigomphus paludosus Hagen in Selys, 1854



***Epigomphus paludosus* Hagen in Selys, 1854**

Aphylla edentata Selys, 1869, Peru, MD, Cuzco Amazonico, Lago Sandoval, S -13. 5830 – W -71. 8670, 339/1994: m, 28. 01. 1994, Günther Peters leg., Belle, 1992

Zonophora calippus Selys, 1869, Peru, LO, Iquitos, S -3. 7750 –W -73. 260, 2/1986: m, W. Zöller

Corduliidae *Gomphomacromia fallax* McLachlan, 1881, Peru, Apurimac Prov., Abancay, 2500m-3000m, S -13. 6330 – W -72. 850, 1/1999, 161/162/2000: 1 m, 2 w, VI-VII, 1995,

W. Braun coll., Martin, 1906, Ris, 1918, Peru, Quincemil/Pjto. Unteo, S -13. 20 – W -70. 70, 21/1979: m, Sept. 1973, Lehmann, Bergkamen coll.



***Gomphomacromia fallax* McLachlan, 1881**

Libellulidae *Uracis fastigiata* (Burmeister, 1839), Peru, LO, Iquitos, S -3. 7750 – W -73. 260, 5/1981: w, Jun. 1980, Lehmann, Bergkamen coll., Peru, MD, Cuzco Amazonico, S -13. 50 – W -71. 9670, 356/357/1994: 2 w, 26. 01. 1994, Günther Peters leg., Ris, 1910, Peru, MD, Cuzco Amazonico, Lago Sandoval, S -13. 5830 – W -71. 8670, 340/341/342/1994: 3 m, 28. 01. 1994, Günther Peters leg., Ris, 1910



***Uracis fastigiata* (Burmeister, 1839)**

Uracis imbuta (Burmeister, 1839), Peru, Iquitos, Loreto, S -4. 232473 – W -74. 217933, 81/2016: m, 2014-2015, leg. Josef Galic, Peru, MD, Cuzco Amazonico, Lago Sandoval, S -13. 5830 – W -71. 8670, 343/1994: m, 28. 01. 1994, Günther Peters leg., Ris, 1910

Oligoclada pachystigma Karsch, 1890, Peru, MD, Cuzco Amazonico, Lago Sandoval, S -13. 5830 – W -71. 8670, 348/352/353/1994: 3 m, 28. 01. 1994, Günther Peters leg., Borrer, 1931, Ris, 1911, Geijskes, 1984

Anatya guttata (Erichson in Schomburg, 1848), Peru, Prov. Ucayali, Yarinacocla at 'la Perla', S -8. 363156 – W -74. 567717, 192/2012: m, 19. 10. 1997, leg. Andreas Arnold, Ris, 1911

Micrathyria almeidai Santos, 1945, Peru, MD, Cuzco Amazonico, Lago Sandoval, S -13. 5830 – W -71. 8670, 344/1994: m, 28. 01. 1994, Günther Peters leg., Santos, 1945

Brachymesia furcate (Hagen, 1861), Peru, Lima, Laguna de Villa, S -12. 30 – O -76. 9380, 362/363/1994: 2 m, 31. 01. 1994, Günther Peters leg., Borrer, 1945

Orthemisdiscolor (Burmeister, 1839) (Rosaete Skimmer), Peru, JU, Chanchamayo, San Ramon, 700-1100m, S -11. 00 – W -76. 00, 24/25/26/27/38/42/43/44/45/46/47/1979: 5 m, 6 w, 10. 05. 1972, Lehmann, Bergkamen coll., Donnelly, 1995, Peru, Iquitos, Loreto, S -4. 232473 – W -74. 217933, 75/2016: m, 2014-2015, leg. Josef Galic, Heckman, 2006, Peru, Iquitos, Loreto, 'Con A-I', S -4. 232473 – W -74. 217933, 79/2016: m, 2014-2015, leg. Josef Galic, Heckman, 2006, Peru, JU,

Chanchamayo, San Ramon, 700-1100m, S -11. 00 – W -76. 00, 22/1979: m, 1978, Lehmann, Bergkamen coll., Donnelly, 1995, Peru, MD, Cuzco Amazonico, Lago Sandoval, S -13. 5830 – W -71. 8670, 355/1994: m, 28. 01. 1994, Günther Peters leg., Donnelly, 1995, Peru, Prov. Ucayali, 'Alalaya', S -10. 340320 – W -73. 757187, 193/2012: m, 15. 10. 1997, leg. Andreas Arnold, Förster, 1999, Heckman, 2006

Orthemis cultriformis Calvert, 1899, Peru, 'Ilenia', S -10. 00 – W -75. 00, 29/1979: m, Jan. 1973, Lehmann, Bergkamen coll.

Cannaphila vibex (Hagen, 1861), Peru, Apurimac Prov., Abancay, 2500m-3000m, S -13. 6330 – W -72. 850, 5/6/1999-163/164/165/166/2000: 5 m, 1 w, VI-VII, 1995, W. Braun coll., Borrór, 1945, Ris, 1910

Libellula herculean Karsch, 1889, Peru, Iquitos, Loreto, S -4. 232473 – W -74. 217933, 73/74/78/2016: 3 m, 2014-2015, leg. Josef Galic, Heckman, 2006, Peru, JU, Chanchamayo, San Ramon, 700-1100m, S -11. 00 – W -76. 00, 30/1979: m, 22. 05. 1973, Lehmann, Bergkamen coll., Peru, LO, Iquitos, S -3. 7750 – W -73. 260, 3/1986: m, W. Zöller coll.

Erythemis mithroides (Brauer, 1900), Peru, MD, Cuzco Amazonico, Lago Sandoval, S -13. 5830 – W -71. 8670, 346/347/1994: 2 w, 28. 01. 1994, Günther Peters leg., Ris, 1911, Williamson, 1923

Erythemis haematogastra (Burmeister, 1839), Peru, MD, Cuzco Amazonico, Lago Sandoval, S -13. 5830 – W -71. 8670, 354/1994: m, 28. 01. 1994, Günther Peters leg., Ris, 1911

Erythemis vesiculosa (Fabricius, 1775), Peru, LO, Iquitos, S -3. 7750 – W -73. 260, 31/1979: m, Mai 1979, Galic, Josef, Peru, o. D., S -13. 2170 – W -59. 5670, 143/2010: w, 1. 04. 1980, leg. Heinz Karbaum

Erythrodiplax abjecta Rambur, 1842, Peru, Prov. Ucayali, Yarinacocla at 'la Perla', S -8. 363156 – W -74. 567717, 194/195/2012: 1 m, 1 w, 4. 10. 1994, leg. Andreas Arnold, Borrór, 1942, Heckman, 2006, Peru, Prov. Ucayali, Yarinacocla at San Bernando, S -8. 363156 – W -74. 567717, 196/2012: w, 12. 10. 1994, leg. Andreas Arnold, Borrór, 1942, Heckman, 2006

Erythrodiplax attenuate (Kirby, 1889), Peru, Apurimac Prov., Abancay, 2500m-3000m, S -13. 6330 – W -72. 850, 146/167/168/169/170/178/2000: 4 m, 2 w, VI-VII, 1995, W. Braun coll., Borrór, 1942, Peru, LO, Iquitos, between I. Yanamono, S -4. 00 – W -74. 00, 382/1995: m, 10. 11. 1980, M. Blech leg., Borrór, 1942



Erythrodiplax attenuata (Kirby, 1889)

Erythrodiplax nivea Borrór, 1842, Peru, Apurimac Prov., Abancay, 2550m-3000m, S -13. 6330 – W -72. 850, 2/1999: w, VI/VII 1995, Wilfried Braun coll., Borrór, 1942

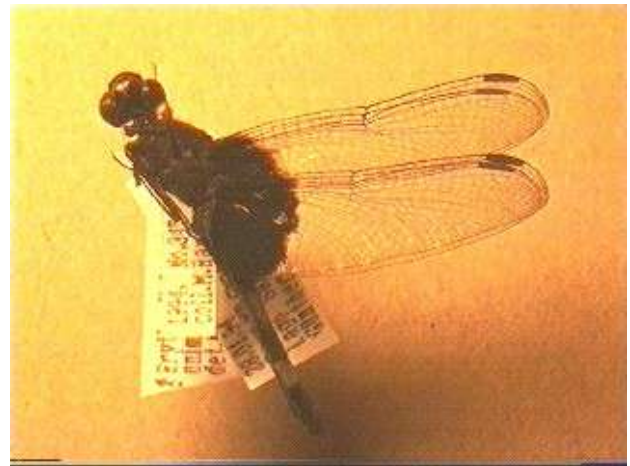
Erythrodiplax cleopatra Ris, 1911, Peru, Lima, Laguna de Villa, S -12. 30 – W -76. 9380, 361/364/1994: 2 m, 22. 01. 1994, Günther Peters leg., Borrór, 1940

Erythrodiplax umbrata (L., 1758), Peru, Iquitos, Loreto, '1', S -4. 232473 – W -74. 217933, 82/2016: m, 2014-2015, leg. Josef Galic, Heckman, 2008,

Erythrodiplax fusca (Rambur, 1842), Peru, Apurimac Prov., Abancay, 2500m-3000m, S -13. 6330 – W -72. 850, 179/2000: m, VI-VII, 1995, W. Braun coll., Borrór, 1942, Peru, JU, Chanchamayo, San Ramon, 700-1100m, S -11. 00 – W -76. 00, 3/4/1979: Em, 1 w, 10. 05. 1972, Lehmann, Bergkamen coll., Peru, MD, Cuzco Amazonico, Lago Sandoval, N -13. 5830 – W -71. 8670, 349/350/351/1994: 1m, 2 w, 28. 01. 1994, Günther Peters leg., Borrór, 1940

Erythrodiplax ines Ris, 1911, Peru, JU, Chanchamayo, San Ramon, 700-1100m, S -11. 00 – W -76. 00, 5/32/33/1979: 3 m, 1. 01. 1978, Lehmann, Bergkamen coll., Peru, PA, Oxapampa, Mayo, S -10. 580 – W -75. 40, 383/384/1995: 2 m, VII. 1986, Borrór, 1942

Erythrodiplax unimaculata (De Geer, 1773), Peru, MD, Cuzco Amazonico, Lago Sandoval, S -13. 5830 – W -71. 8670, 345/1994: m, 28. 01. 1994, Günther Peters leg., Borrór, 1940



Erythrodiplax unimaculata (De Geer, 1773)

Sympetrum gilvum (Hagen, 1861), Peru, Apurimac Prov., Abancay, 2500m-3000m, S -13. 6330 – W -72. 850, 171/172/173/174/175/176/177/2000: 7 m, VI-VII, 1995, W. Braun coll., Calvert, 1901-08, Calvert, 1895, Schmidt, 1975, Peru, Apurimac Prov., Abancay, 2550m-3000m, S -13. 6330 – W -72. 850, 7/8/9/10/1999: 3 m, 1 w, VI/VII 1995, Wilfried Braun coll., Borrór, 1945, Schmidt, 1975, Ris, 1911, Peru, Tacna desert, little stream, S -18. 00 – W -70. 2330, 337/338/1994: 2 m, 2. 02. 1994, Günther Peters leg., Calvert, 1908, DeMarmels, 1988, Förster, 1999

Dythemis sterilis Hagen, 1861, Peru, Lima SE, Cieneguilla, Rio Luzin, S -12. 1330 – W -76. 7830, 359/360/1994: 1 m, 1 w, 23. 01. 1994, Günther Peters leg. Ris, 1910, Selys, 1916, Tsuda, 1991, Schmidt, 1916

Macrothemis imitans Karsch, 1890, Peru, JU, Chanchamayo, San Ramon, 700-1100m, S -11. 00 – W -76. 00, 4/1982: w, 15. 09. 1973, Lehmann, Holzminden coll.

Diastatops pullata (Burmeister, 1939), Peru, SM, Tarapoto, S - 6. 520 – W -76. 380, 247/1990: m, 20. 09. 1984, v. Gunten

Perithemis monna (Say, 1839) (Eastern Amberwing), Peru, JU, Satipo, S -11. 260 – W -74. 6850, 822/823/824/1997: 1 m, 2 w, IV. 1996, Lehmann, Bergkamen coll., Ris, 1930



Sympetrum gilvum (Hagen, 1861)

Table 1. Species from Peru

| Arten | M | W | E/L |
|---|----|---|-----|
| 1. <i>Rhinaeshna brevifrons</i> Hagen, 1861 | 2 | 1 | 0 |
| 2. <i>Gynacantha adela</i> Martin, 1909 | 0 | 0 | 1 |
| 3. <i>Gynacantha gracilis</i> (Burmeister, 1839) | 2 | 0 | 0 |
| 4. <i>Gynacantha membranalis</i> Karsch, 1891 | 1 | 2 | 0 |
| 5. <i>Triacanthagyna satyrus</i> Martin, 1909 | 0 | 0 | 1 |
| 6. <i>Triacanthagyna septima</i> (Selys, 1857) | 2 | 2 | 0 |
| 7. <i>Triacanthagyna williamsoni</i> von Ellenrieder & Garrison, 2010 | 3 | 0 | 0 |
| 8. <i>Epigomphus obtusus</i> Selys, 1869 | 1 | 0 | 0 |
| 9. <i>Epigomphus paludosus</i> Hagen in Selys, 1854 | 4 | 0 | 0 |
| 10. <i>Aphylla edentata</i> Selys, 1869 | 1 | 0 | 0 |
| 11. <i>Zonophora calippus</i> Selys, 1869 | 1 | 0 | 0 |
| 12. <i>Gomphomacromia fallax</i> McLachlan, 1881 | 2 | 2 | 0 |
| 13. <i>Uracis fastigiata</i> (Burmeister, 1839) | 3 | 3 | 0 |
| 14. <i>Uracis imbuta</i> (Burmeister, 1839) | 2 | 0 | 0 |
| 15. <i>Oligoclada pachystigma</i> Karsch, 1890 | 3 | 0 | 0 |
| 16. <i>Anatya guttata</i> (Erichson in Schomburg, 1848) | 1 | 0 | 0 |
| 17. <i>Micrathyria almeidai</i> Santos, 1945 | 1 | 0 | 0 |
| 18. <i>Brachymesia furcata</i> (Hagen, 1861) | 2 | 0 | 0 |
| 19. <i>Orthemis discolor</i> (Burmeister, 1839) | 10 | 6 | 0 |
| 20. <i>Orthemis cultriformis</i> Calvert, 1899 | 1 | 0 | 0 |
| 21. <i>Cannaphila vibex</i> (Hagen, 1861) | 5 | 1 | 0 |
| 22. <i>Libellula herculea</i> Karsch, 1889 | 5 | 0 | 0 |
| 23. <i>Erythemis mithroides</i> (Brauer, 1900) | 0 | 2 | 0 |
| 24. <i>Erythemis haematogastra</i> (Burmeister, 1839) | 1 | 0 | 0 |
| 26. <i>Erythrodiplax abjecta</i> Rambur, 1842 | 1 | 2 | 0 |
| 27. <i>Erythrodiplax attenuata</i> (Kirby, 1889) | 5 | 2 | 0 |
| 28. <i>Erythrodiplax nivea</i> Borrer, 1842 | 0 | 1 | 0 |
| 29. <i>Erythrodiplax cleopatra</i> Ris, 1911 | 2 | 0 | 0 |
| 30. <i>Erythrodiplax umbrata</i> (L., 1758) | 1 | 0 | 0 |
| 31. <i>Erythrodiplax fusca</i> (Rambur, 1842) | 2 | 3 | 1 |
| 32. <i>Erythrodiplax ines</i> Ris, 1911 | 5 | 0 | 0 |
| 33. <i>Erythrodiplax unimaculata</i> (De Geer, 1773) | 1 | 0 | 0 |
| 34. <i>Sympetrum gilvum</i> (Hagen, 1884) | 12 | 1 | 0 |
| 35. <i>Dythemis sterilis</i> Hagen, 1861 | 1 | 1 | 0 |
| 36. <i>Macrothemis imitans</i> Karsch, 1890 | 0 | 1 | 0 |
| 37. <i>Diastatops pullata</i> (Burmeister, 1939) | 1 | 0 | 0 |
| 38. <i>Perithemis monna</i> (Say, 1839) | 1 | 2 | 0 |
| 39. <i>Pantala flavescens</i> (Fabricius, 1798) | 1 | 1 | 0 |
| 40. <i>Tholymis citrina</i> (Hagen, 1867) | 0 | 0 | 1 |
| 41. <i>Hetaerina amazonica</i> Sjöstedt, 1918 | 0 | 1 | 0 |
| 42. <i>Hetaerina duplex</i> Selys, 1869 | 3 | 2 | 0 |
| 43. <i>Hetaerina caja</i> (Drury, 1773) | 8 | 4 | 0 |
| 44. <i>Hetaerina charca</i> Calvert, 1909 | 4 | 0 | 0 |

| | | | |
|--|----|----|---|
| 45. <i>Hetaerina laesa</i> Hagen in Selys, 1853 | 14 | 4 | 0 |
| 46. <i>Hetaerina occisa</i> Hagen in Selys, 1853 | 15 | 3 | 0 |
| 47. <i>Hetaerina proxima</i> Selys, 1853 | 3 | 0 | 0 |
| 48. <i>Hetaerina rosea</i> Selys, 1853 | 9 | 7 | 0 |
| 49. <i>Hetaerina sanguinea</i> Selys, 1853 | 36 | 1 | 0 |
| 50. <i>Mnesarete aenea</i> (Selys, 1853) | 4 | 1 | 0 |
| 51. <i>Mnesarete cupraea</i> (Selys, 1853) | 6 | 4 | 0 |
| 52. <i>Mnesarete devillei</i> (Selys, 1880) | 8 | 1 | 0 |
| 53. <i>Ormenophle biasaltuum</i> (Ris, 1918) | 1 | 0 | 0 |
| 54. <i>Heliocharis amazona</i> Selys, 1853 | 1 | 0 | 0 |
| 55. <i>Polythore procera</i> (Selys, 1869) | 2 | 2 | 0 |
| 56. <i>Polythore lamerceda</i> Bick & Bick, 1985 | 1 | 0 | 0 |
| 57. <i>Polythore picta</i> (Rambur, 1842) | 5 | 0 | 0 |
| 58. <i>Polythore derivata</i> (McLachlan, 1881) | 1 | 1 | 0 |
| 59. <i>Polythore boliviana</i> (McLachlan, 1878) | 4 | 15 | 0 |
| 60. <i>Polythore ornata</i> (Selys, 1879) | 5 | 0 | 0 |
| 61. <i>Polythore neopicta</i> Bick & Bick, 1990 | 25 | 0 | 0 |
| 62. <i>Polythore aurora</i> (Selys, 1879) | 7 | 16 | 0 |
| 63. <i>Polythore mutata</i> (McLachlan, 1881) | 3 | 2 | 0 |
| 64. <i>Polythore vittata</i> (Selys, 1869) | 0 | 1 | 0 |
| 65. <i>Chalcopteryx rutilans</i> (Rambur, 1842) | 1 | 2 | 0 |
| 66. <i>Heteragrion bariaii</i> DeMarmels, 1989 | 3 | 0 | 0 |
| 67. <i>Heteragrion mitratum</i> Williamson, 1919 | 1 | 0 | 0 |
| 68. <i>Ischnura (Ceratura) capreolus</i> (Hagen, 1861) | 5 | 7 | 0 |
| 69. <i>Ischnura ramburii</i> (Selys in Sagra, 1857) | 8 | 6 | 0 |
| 70. <i>Acanthagrion ascendens</i> Calvert, 1909 | 3 | 0 | 0 |
| 71. <i>Acanthagrion floridense</i> Machado, 1946 | 11 | 1 | 0 |
| 72. <i>Acanthagrion ascendens</i> Calvert, 1909 | 2 | 0 | 0 |
| 73. <i>Acanthagrion dichrostigma</i> De Marmels, 1985 | 1 | 0 | 0 |
| 74. <i>Acanthagrion minutum</i> Leonard, 1977 | 1 | 0 | 0 |
| 75. <i>Acanthagrion cuyabae</i> Calvert, 1909 | 2 | 0 | 0 |
| 76. <i>Acanthagrion yungarum</i> Ris, 1918 | 1 | 0 | 0 |
| 77. <i>Mesamphiagrion laterale</i> (Selys, 1876) | 2 | 0 | 0 |
| 78. <i>Protallagma titicacae</i> (Calvert, 1909) | 1 | 0 | 0 |
| 79. <i>Oxyallagma dissidens</i> (Selys, 1876) | 0 | 0 | 1 |
| 80. <i>Argia adamsi</i> Calvert, 1902 | 1 | 0 | 0 |
| 81. <i>Argia cuprea</i> (Hagen, 1861) | 0 | 1 | 0 |
| 82. <i>Argia gerhardi</i> Calvert, 1909 | 4 | 0 | 0 |
| 83. <i>Argia inculta</i> Hageni. Selys, 1865 | 4 | 2 | 1 |
| 84. <i>Protoneura paucinervis</i> Selys, 1886 | 2 | 2 | 0 |
| 85. <i>Protoneura scintilla</i> Gloyd, 1939 | 1 | 0 | 0 |
| 86. <i>Epipleoneura ocuene</i> De Marmels, 1989 | 1 | 0 | 0 |
| 87. <i>Psaironeura tenuissima</i> (Selys, 1886) | 4 | 0 | 0 |
| 88. <i>Neoneura rubriventris</i> Selys, 1860 | 2 | 0 | 0 |
| 91. <i>Mecistogaster amalia</i> (Burmeister, 1842) | 3 | 2 | 1 |
| 92. <i>Mecistogaster lucretia</i> (Drury, 1773) | 2 | 2 | 0 |
| 93. <i>Microstigma anomalum</i> Rambur, 1842 | 6 | 2 | 0 |
| 94. <i>Microstigma rotundatum</i> Selys, 1860 | 18 | 6 | 0 |
| 95. <i>Anomisma abnorme</i> McLachlan, 1877 | 1 | 1 | 0 |
| 96. <i>Megaloprepus brevistigma</i> Selys, 1860 | 1 | 1 | 0 |

Number of Datasets: 487

Pantala flavescens (Fabricius, 1798), Peru, JU, Chanchamayo, San Ramon, 700-1100m, S -11. 00 – W -76. 00, 6/1982: m, 29. 10. 1977, Lehmann, Holzminden coll., Peru, Pisco, S -13. 6830 – W -76. 20, 358/1994: w, 25. 01. 1994, Günther Peters leg., Ris, 1910

Tholymis citrina (Hagen, 1867), Peru, Prov. Ucayali, Yarinacocla at 'la Perla', S -8. 363156 –W -74. 567717, 191/2012: Em, 19. 10. 1997, leg. Andreas Arnold, Heckman, 2006

DISCUSSION

In 1994 Joachim Hoffmann has given me a baggage of Odonata from the Museum Naturalis Lima. Many of these odonata were identified from Paulsen before. The odonata I could identify regarding the identification of Paulsen. The results are also presented in the paper of Hoffmann (2009). 23 species in my material are not mentioned in the list of Hoffmann (2009):

The following 10 species are found as additional in Peru according to the list of Hoffman (2009), but there are known from the near Amazonas area or from Peru, *Polythore merceda* (Peru), *Polythore neopicta*, *Polythore aurora*-Amazonas, *Polythore procera*-Amazonas, *Heteragrion bariai*-Ecuador, Peru, Venezuela, Rondonia, *Acanthagrion ascendens*-Trinidad, Colombia, Venezuela, Guyana, Surinam, Ecuador, Peru, Paraguay, Argentina, Santa Catarina, Sao Paulo, Goia, Mato Grosso, Rondonia, *Acanthagrion minutum*- Peru, Bolivia, Venezuela, Sao Paulo, *Psaironeura tenuissima*-Ecuador, Peru, Guyana, Para, Amazonas, Rondonia, *Microstigma anomalum*-Peru, Bolivia, Para, Amazonas, *Megaloprepus brevistigma*-Peru, Venezuela.

The other 13 species as new für the Peru fauna are the following species (after the species the location are given according to Heckman (2006, 2009): *Hetaerina duplex*-Colombia, *Hetaerina proxima*-Argentina, Bolivia, *Polythore mutata*-Ecuador, Colombia, *Heteragrion mitratum*-Colombia, *Acanthagrion dichrostigma*-Venezuela, *Acanthagrion cuyabae*-Bolivia, Argentina, Mato Grosso, Sao Paulo, Rio Grande de Sul, *Mesamphiagrion laterale*-Ecuador, Colombia, Venezuela, *Epipleoneura ocuene*-Venezuela, *Epigomphus paludosus*-Argentina, Paraguay, Minas Gerais, Sao Paulo, *Micrathyria almeidai*-Goias, Federal District, Minas Gerais, Sao Paulo, Rio de Janeiro, *Erythrodiplax abjecta*-Mexico, Central America, West Indies, Colombia, Ecuador, Venezuela, Mato Grosso do Sul, *Erythrodiplax nivea*-Sao Paulo, *Macrothemis imitans*-Central America, Trinidad, Venezuela, Guyana, Bolivia, Paraguay, Argentina, Santa Catarina, Sao Paulo, Mato Grosso.

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