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RUBRICA

Rubrica J. Parker, 1929:53. Type species: *Monedula gravida* Handlirsch, 1890, by original designation.

See: Genise, 1979 (description of larva).

1. adumbrata (Handlirsch)

Monedula adumbrata Handlirsch, 1890:120, ♀. Holotype: ♀, Brazil: Pará: no specific locality (MHNG). – Dalla Torre, 1897:496 (in catalog of world Sphecidae). – **As *Rubrica adumbrata***: Lohrmann, 1948:465 (new generic assignment, in review of *Rubrica*); R. Bohart and Menke, 1976:541 (in checklist of world Sphecidae); Amarante, 2002:10 (in catalog of Neotropical Crabronidae); Buys, 2012b:74 (Brazil: previously recorded from Rio de Janeiro State by Amarante, 2002).

2. denticornis (Handlirsch)

Monedula denticornis Handlirsch, 1890:119, ♀, ♂. Syntypes: Colombia (coll. Wüstnei) and Peru (NHMW): no specific localities. – Handlirsch, 1895:969 (Venezuela: Puerto Cabello); Dalla Torre, 1897:497 (in catalog of world Sphecidae); Bodkin, 1917:122 (Guyana), 123 (nesting site and prey, immature stages). – **As *Rubrica denticornis***: J. Parker, 1929:55 (new generic assignment, in generic revision of Stizini and Bembicini); Lohrmann, 1948:464 (in review of *Rubrica*); Evans, 1966d:261 (summary of observations by Bodkin, 1917); R. Bohart and Menke, 1976:541 (in checklist of world Sphecidae); F. Fernández, 1990:24 (Colombia: Meta: Parque Nacional Natural La Macarena); Hanson and Menke, 1995:648 (known from Costa Rica); Amarante, 2002:10 (in catalog of Neotropical Crabronidae); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:666 (in checklist of Mexican Sphecidae); Rasmussen and Asenjo, 2009:7 (in checklist of Crabronidae of Peru).

3. gravida (Handlirsch)

Monedula gravida Handlirsch, 1890:121, ♀, ♂. Syntypes: Brazil: and Buenos Aires (NHMW and others). – Dalla Torre, 1897:497 (in catalog of world Sphecidae); Schrottky, 1903b:176 (in checklist of Hymenoptera of Argentina, Paraguay, and Uruguay), 1904:344 (first record from Paraguay), 1909c:210, 212 (occurring on dry sand); Poulton, 1918:xxxviii (Brazil, prey: *Volucella* sp., Syrphidae). – **As *Stictia gravida***: Schrottky, 1913a:232 (new generic assignment, Argentina, Paraguay); Bondar, 1930:181 (prey: Diptera). – **As *Rubrica gravida***: J. Parker, 1929:54 (new generic assignment, in generic revision of Stizini and Bembicini); Willink, 1947:594 (in revision of Argentinean Bembicinae); Lohrmann, 1948:465 (in review of *Rubrica*); Fritz, 1958:55 (Argentina, Bolivia); Llano, 1959:86 (nest and prey, metamorphosis); Evans, 1966d:262 (synopsis of known behavioral information); R. Bohart and Menke, 1976:541 (in checklist of world Sphecidae); Fritz, 1982:14 (Argentina: Corrientes: Ituzaingo); Steiner, 1986:110 (references to publications on nesting habits); Amarante, 2002:10 (in catalog of Neotropical Crabronidae); Buys, 2012b:74 (Brazil: Rio de Janeiro State: Petrópolis); Vardy, 2017:14 (Argentina: Buenos Aires: Lomas de Zamora, nesting, attempts at prey robbery).

As *Monedula punctata*: Hudson, 1918:... (The Naturalist in La Plata), corrected to *Rubrica gravida* by Llano, 1959:85 and Evans, 1966d:253.

4. nasuta (Christ)

Apis surinamensis De Geer, 1778:569, sex not stated, junior primary homonym of *Apis surinamensis* Linnaeus, 1758:575 (= *Zethus mexicanus* (Linnaeus, 1767), Eumenidae) and of *Apis surinamensis* Linnaeus, 1758:579 (= *Euglossa surinamensis* (Linnaeus, 1758), Apidae). Syntypes: Surinam: no specific locality (destroyed). – **As *Monedula surinamensis***: Dahlbom, 1844:187 (new generic assignment, in revision of Sphecidae and Pompilidae), 1845:493 (in key to *Monedula*); F. Smith, 1856:332 (in catalog of Hymenoptera in British Museum); A. Costa, 1864a:61 (one

- specimen from South America in Museo Zoologico di Napoli), 112 (specimen from Montevideo, Uruguay, in Museo Zoologico di Napoli); Taschenberg, 1870:24 (Argentina, Brazil, Uruguay, Venezuela); Burmeister, 1874:117 (in revision of Argentinean Bembicinae); Cameron, 1890a:98 (Nicaragua); Radoszkowski, 1892:578 (male genitalia); Handlirsch, 1890:115 (in revision of world Bembicinae), 1895:969 (additional bibliography); Dalla Torre, 1897:500 (in catalog of world Sphecidae); W. Fox, 1897b:383 (Brazil: Mato Grosso: Chapada de Guimaraes); Ashmead, 1899e:240 (in checklist of North American Crabronidae); W. Fox, 1899:200 (Brazil: Rio Grande do Sul); Ashmead, 1900:306 (in checklist of Caribbean Hymenoptera); Brèthes, 1901:200 (nesting habits); Schrottky, 1903b:177 (in checklist of Hymenoptera of Argentina, Paraguay, and Uruguay); Ducke, 1907b:91 (Brazil: Maranhão State: common everywhere), 1908b:83 (Brazil: Ceará State: Serra de Baturité); Strand, 1910a:146 (Paraguay); Bodkin, 1917:122 (Guyana); Poulton, 1918:xxxviii (Brazil, prey: various Diptera); Copello, 1933:117 (nest parasite: *Hyperalonia morio* (Fabricius), a bombyliid); Bischoff and von Schulthess, 1937:169 (Argentina: San José); Casolari and Casolari Moreno, 1980:114 (specimens in M. Spinola collection, Torino); Pagliano, 2011a:118 (specimens in M. Spinola collection, Torino, are *Rubrica nasuta*). – **As *Stictia surinamensis***: Jörgensen, 1912:289 (new generic assignment, Argentina: Mendoza Province, floral records); Schrottky, 1913a:232 (Argentina, Paraguay, Uruguay); Bradley, 1921:54 (Brazil: Rio de Janeiro); Bondar, 1930:181 (prey: Diptera); Maes, 1989:97 (in catalog of Nicaraguan Sphecidae). – **As *Rubrica surinamensis***: J. Parker, 1929:55 (new generic assignment, in generic revision of Stizini and Bembicini); Richards, 1937a:113 (Guyana); Vesey-Fitzgerald, 1940:37 (nesting habits); Callan, 1945:146 (Trinidad, prey include *Musca domestica* Linnaeus and *Stomoxys calcitrans* (Linnaeus), Muscidae); Willink, 1947:597 (in revision of Argentinean Bembicinae); Lohrmann, 1948: 429 (illustration of male sternum VIII), 464 (in review of *Rubrica*); Callan, 1950:205 (summary of nesting habits), 1954:22 (Venezuela: Paria Peninsula: Cristóbal Colón); Llano, 1959:94 (nest and prey, metamorphosis); Evans, 1964b:269 (description of larva); Aguilar, 1966:95 (Peru: hills in vicinity of Lima); Evans, 1966d:258 (summary of known behavioral information); Evans, Matthews, and Callan, 1974:334 (nesting behavior); Aguilar, 1976:69 (Peru: coastal hills); Piek and Spanjer, 1986:188 (in list of Sphecidae with known prey); Steiner, 1986:110 (references to publications on nesting habits); Raymond, 1989:302 (French Guiana, hunting); Silvestre, Demétrio, Trad, de Oliveira Lima, Auko, and de Souza, 2014:69 (Brazil: Mato Grosso do Sul: dry forests in Bodoquena Mountain Range and Brazilian Chaco).
- Vespa nasuta* Christ, 1791:222, sex not stated. Holotype or syntypes: origin unknown (lost). Synonymized with *Monedula surinamensis* by Handlirsch, 1890:115. – **As *Rubrica nasuta***: R. Bohart and Menke, 1976:541 (new generic assignment, in checklist of world Sphecidae); Genise, 1979b:8 (social interaction), 1980d:15 (individual preferences in prey selection); Nascimento and Overal, 1980:9 (Brazil); Fritz, 1982:14 (Argentina: Corrientes: Ituzaingo); Genise, 1982d:120 (description of mature larva), Genise, 1982g:101 (cell cleaning behavior); Radović, 1985:66 (sting apparatus analyzed); Callan, 1991a:12 (Trinidad), 1991c:136 (nest, prey); Amarante, 1993:20 (northeastern Brazil); Soares and Martins, 1995:234 (cocoon spinning and structure); Hanson and Menke, 1995:648 (known from Costa Rica); Pimenta and Martins, 1999:273 (nesting behavior, male behavior, sleeping, feeding); Amarante, 2002:10 (in catalog of Neotropical Crabronidae); Evans, 2002a:3 (preying mainly on Diptera, occasionally on non-Diptera); Fontenelle and Martins, 2002:187 (hunting behavior); Starr and Hook, 2003:18 (in catalog of Aculeata of Trinidad, West Indies); Evans and O’Neil, 2007:132 (summary of information on nesting habits); Vázques, Aschero, and Stevani, 2008:10 (Argentina: central Monte Desert); Rasmussen and Asenjo, 2009:7 (in checklist of Crabronidae of Peru); Buys, 2012b:74 (Brazil: Rio de Janeiro State: several localities; prey: *Ornidia obesa* (Fabricius, 1775), a syrphid, and an unidentified tabanid); Guimarães, Buys, Vivallo, Guimarães Júnior, Storti Rodrigues, Guimarães, dos Santos Seppa, and de Carvalho, 2014:80 (Brazil: Rio de Janeiro: Ilha de Marambaia); Silvestre, Demétrio, Trad, de Oliveira Lima, Auko, and de Souza, 2014:69 (Brazil: Mato Grosso do Sul: dry forests in Bodoquena Mountain Range and Brazilian Chaco); Trad and Silvestre, 2017:4 (Brazil: Mato Grosso do Sul).
- Bembex striata* Fabricius, 1793:250, sex not stated. Holotype or syntypes: origin not stated but French Guyana: Cayenne given in 1804:226 (depository unknown). Synonymized with *Monedula surinamensis* by Handlirsch, 1890:115, and with *Rubrica nasuta* by van der Vecht, 1961a:58. – Fabricius, 1796:19 (in Index to his Entomologia

Systematica, 1793). – **As *Monedula striata***: Dahlbom, 1845:XXIII (new generic assignment, study of type material), 493 (in key to *Monedula*). – **As *Rubrica striata***: Lohrmann, 1948:465 (new generic assignment, in review of *Rubrica*).

Bembex continua Fabricius, 1804:225, sex not stated. Lectotype: ♀, South America: no specific locality (ZMUC), designated by van der Vecht, 1961a:58. Synonymized with *Monedula surinamensis* by F. Smith, 1856:332. – Jurine, 1807:175 (in reclassification of Hymenoptera); Dahlbom, 1845:XXII (specimens in collection Fabricius). – **As *Monedula continua***: Dahlbom, 1845:493 (in key to *Monedula*); Lepeletier de Saint Fargeau, 1845:287 (in revision of world Hymenoptera); Casolari and Casolari Moreno, 1980:114 (specimens in M. Spinola collection, Torino); Pagliano, 2011a:117, 118 (specimens in coll. Spinola, Torino, are *Rubrica nasuta*). – **As *Rubrica nasuta continua***: van der Vecht, 1959c:212 (new generic assignment, new status).

sp.

Pagliano, 2011a:117 (*Monedula* sp. in M. Spinola collection, Torino, is a *Rubrica* sp.).

NAME OF UNCLEAR IDENTITY

Rubrica canadensis: Cabrera La Rosa, 1993:72 (Peru: La Molina), perhaps a misidentification of *Prionyx canadensis*.