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CATALOGUE OF TYPE SPECIMENS IN THE INVERTEBRATE
PALAEONTOLOGICAL COLLECTIONS OF THE MUSEUM OF
GEOLOGY AND PALAEONTOLOGY OF THE UNIVERSITY OF
FLORENCE. (ITALY). CRUSTACEA, DECAPODA

Riassunto — Catalogo degli esemplari tipo nelle collezioni paleontologiche di invertebrati del Museo di Geologia e Paleontologia dell'Università di Firenze. Crostacei, Decapodi. Le collezioni di Decapodi, Crostacei, del Museo di Geologia e Paleontologia contengono 14 taxa appartenenti alle seguenti famiglie: Paguridae, Leucosiidae, Raninidae, Atelecyclidae, Xanthidae, Geryonidae e Gonoplacidae. Provengono da diverse regioni italiane ed un taxon è della Somalia. L'età è compresa fra l'Eocene ed il Pleistocene.

Summary — The following families of Crustacea, are represented in the invertebrate collections of the Museum of Geology and Palaeontology of Florence: Paguridae, Leucosiidae, Raninidae, Atelecyclidae, Xanthidae, Geryonidae and Gonoplacidae. The material comes from some Italian provinces and from Somalia and ranges from the Eocene to the Pleistocene.

Key words — Decapoda, Crustacea, types.

The decapod crustaceans of the Museum consist principally of Pliocene forms of Tuscany, described by RISTORI, 1886, 1888, 1891, 1892, 1896) derived from several private collections.

The types belong to the Infraorders Anomura (Paguridae) and Brachyura (Leucosiidae, Raninidae, Atelecyclidae, Xanthidae, Geryonidae and Gonoplacidae) and total 14 taxa. They come from the Italian provinces of Tuscany, Piedmont, Latium, Liguria and Emilia, and also from Somalia (Migiurtinia). Horizons range from the Eocene to the Pleistocene.

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This catalogue has been prepared in accordance with the recommendations 72, 73, 74 of the code of Zoological Nomenclature (1959) and follows the Catalogue of Trilobites (DELLE CAVE, 1980).

Type specimens have been listed here following the systematic arrangement by GLASSNER (in MOORE, 1969), as I do not accept the principles of a new classification of the Crustacea Decapoda Brachyura proposed by GUINOT (1978).

Catalogue numbers of the Museum of Geology and Palaeontology are distinguished by letters « I.G.F. ».

Oder DECAPODA Latreille 1803
 Suborder PLEOCYEMATA Burkenroad 1963
 Infraorder ANOMURA H. Milne-Edwards 1832
 Superfamily Paguroidea Latreille 1803
 Family Paguridae Latreille 1802
 Subfamily Pagurinae Latreille 1802
 Genus *Pagurus* Fabricius 1775

1) *Pagurus squamosus* Ristori 1886

Pagurus squamosus RISTORI, 1886, p. 125, pl. 3, figs. 3, 4, 5.
Pagurus ? (*Calcinus* ?) *squamosus*; GLAESNER, 1929, p. 288.
 Material. I.G.F. 860E, holotype, part of right cheliped.
 Horizon and locality. Pliocene *Amphistegina*-limestone. Presented by Sig. Piero Bargagli, 1886.

2) *Pagurus manzonii* (Ristori) 1888

Xantho ? *Manzonii* RISTORI, 1888, p. 213, pl. 4, figs. 1-4.
Xantho ? *Manzonii*; CREMA, 1894-95, p. 677.
Pagurus Manzonii; RISTORI, 1896, p. 511.
Pagurus Manzonii; LÖRENTHEY, 1906, p. 511.
Pagurus Manzonii; GLAESNER, 1929, p. 287, 395.
 Material. I.G.F. 851E, syntypes, portions of some chelae, figured by Ristori 1888 in pl. 4, figs. 1-4.
 Horizon and locality. Middle Miocene marls. Santa Maria Vigiliana (Bologna). From Manzoni Collection, 1888.

Infraorder BRACHYURA Latreille 1803
 Section Oxystomata H. Milne-Edwards 1834
 Superfamily Calappoidea De Haan 1833
 Family Leucosiidae Samoulle 1819
 Genus *Ebalia* Leach 1817

3) *Ebalia cranchii romana* Ristori 1891

Ebalia Cranchii var. *romana* RISTORI, 1891b, p. 22.

Ebalia Cranchii var. *romana*; GLAESSNER, 1929, p. 144.

Material. I.G.F. 991E, syntypes, four carapaces and part of cheliped.

Figured material on which Ristori based the original description was stored in the Museo Paleontologico dell'Università di Roma, but cannot now be traced.

Horizon and locality. Pleistocene. Farnesina (Roma). From Clerici Collection, 1895.

4) *Ebalia fucinii* Ristori 1892

Ebalia Fucinii RISTORI, 1892, p. 88, fig. 2.

Ebalia Fucinii; GLAESSNER, 1929, p. 144.

Material. The one described and figured carapace is perhaps lost.

Horizon and locality. Pliocene sands. Spicchio, near Empoli (Firenze). From Fucini Collection.

Genus *Ilia* Leach 18175) *Ilia pliocaenica* Ristori 1891

Ilia pliocaenica RISTORI, 1891a, p. 10, pl. 1, figs. 8, 9, 14.

Ilia pliocaenica; FUCINI, 1891, p. 58.

Ilia pliocaenica; RISTORI, 1892, p. 86.

Ilia pliocaenica; GLAESSNER, 1929, p. 225.

Material. I.G.F. 939E, syntypes, abdomen and limb fragments; additional material published by Ristori in 1892 is perhaps lost; figs. 11 and 12, as Glaessner 1929 pointed out, are erroneously attributed to *Ilia pliocaenica*.

Horizon and locality. Pliocene sands. Spicchio, near Empoli (Firenze). Presented by Alberto Fucini, 1888.

Superfamily Raninoidea de Haan 1841

Family Raninidae de Haan 1841

Genus *Tribolocephalus* Ristori 18866) *Tribolocephalus laevis* Ristori 1886

Tribolocephalus laevis RISTORI, 1886, p. 128, pl. 2, fig. 19.

Tribolocephalus laevis; van STRAELEN, 1927, p. 85.

Tribolocephalus laevis; GLAESSNER, 1929, p. 388.

Tribolocephalus laevis; GLAESSNER, 1969, p. R502.

Material. I.G.F. 616E, holotype, internal mould of carapace (fig. 19, pl. 2, by Ristori, 1886).

Horizon and locality. Pliocene clays. Orciano Pisano (Pisa). From Pecchioli Collection, 1875.

Section Cancridea Latreille 1803
Family Atelecyclidae Ortmann 1893
Genus *Atelecyclus* Leach 1814

7) *Atelecyclus elegans* Ristori 1896

Atelecyclus elegans RISTORI, 1896, p. 508, pl. 12, fig. 2.

Atelecyclus elegans; GLAESSNER, 1929, p. 62.

Material. I.G.F. 839E, holotype, one specimen lacking limbs and abdominal region (fig. 2, pl. 12 by Ristori, 1896).

Horizon and locality. Middle Miocene, ophiolitic breccias. Albognano, Colline di Torino. From Michelotti Collection, 1865.

Section Brachyrhyncha Borradaile 1907
Superfamily Xanthoidea Dana 1851
Family Xanthidae Dana 1851
Genus *Chlinocephalus* Ristori 1886

8) *Chlinocephalus demissifrons* Ristori 1886

Chlinocephalus demissifrons RISTORI, 1886, p. 101, pl. 2, figs. 5-6.

Chlinocephalus demissifrons; GLAESSNER, 1929, p. 113.

Chlinocephalus demissifrons; GLAESSNER, 1969, p. R517.

Material. I.G.F. 628E, syntype, one specimen not well preserved, without appendages, figured by Ristori 1886, pl. 2, figs. 5-6. Other type specimens are perhaps in the Museo di Paleontologia di Genova and the Museo di Paleontologia di Torino.

Horizon and locality. Pliocene marls. Fornaci presso Savona (Genova). From Prof. Arturo Issel Collection, 1867.

Genus *Eriphia* Latreille 1817

9) *Eriphia cocchii* Ristori 1886

Eriphia Cocchii RISTORI, 1886, p. 105, pl. 2, figs. 3, 4, 13, 14; pl. 3, figs. 1, 2.

Eriphia Cocchii; FUCINI, 1911, p. 3.

Eriphia Cocchii; GLAESSNER, 1929, p. 149.

Eriphia Cocchii; GLAESSNER, 1969, p. R517, fig. 326, 7.

Material and locality. I.G.F. 617E, syntype ♂, with left cheliped, from Montrappoli, Val d'Era (*), Firenze, figured by Ristori in pl. 2, figs. 3, 4, 13, 14, purchased from P. degli Innocenti; I.G.F. 868E, syntype ♂ with chelipeds only partially preserved, from Monte-bicchieri, near San Miniato (Firenze), figured by Ristori in pl. 3, figs. 1, 2 and by Glaessner 1969 in figs. 326, 7, presented by Sig. Bagagli (or Bargagli ?), 1884; I.G.F. 869E, from San Miniato al Tedesco (Firenze), 1892 (?), may be the third specimen recorded as a female, but not figured by Ristori in 1886; it presents the two chelipeds in a dense conglomeration of sand and comminuted shelly fragments. The sex is indeterminable, I think. I.G.F. 870E, syntypes, some isolated fixed and moveable fingers, from San Miniato al Tedesco (Firenze), 1863.

Horizon. Pliocene clays.

10) *Eriphia punctulata* Ristori 1886

Eriphia punctulata RISTORI, 1886, p. 109, pl. 2, figs. 2, 15, 16.

Eriphia punctulata; FUCINI, 1911, p. 1-5.

Eriphia Cocchii; GLAESSNER, 1929, p. 149.

Material. I.G.F. 614E, one specimen (sex?) with right cheliped, holotype, figured by Ristori, pl. 2, figs. 2, 14, 15. Purchased from Paolo degli Innocenti, 1863. I.G.F. 859E, one specimen (sex?), without limbs, carapace dorsally damaged, is referred with some doubts by Ristori to this species.

Horizon and locality. Pliocene. Locality of the specimen I.G.F. 614E is uncertain, as it was found unlabelled among other fossil material from Montrappoli; I.G.F. 859E, from Torrita, Val di Chiana (Siena). Old Collection of the Museum.

Genus *Titanocarcinus* A. Milne-Edwards 1863

11) *Titanocarcinus subovalis* Ristori 1896

Titanocarcinus subovalis RISTORI, 1896, p. 504, pl. 12, figs. 3, 4.

Titanocarcinus subovalis; GLAESSNER, 1929, p. 386.

(*) Erratum. As already pointed out by FUCINI, 1911, Montrappoli is in Val d'Elsa, not in Val d'Era.

Material. I.G.F. 620E, holotype, internal mould, damaged, without limbs, 1 ♂, figured by Ristori in pl. 12, figs. 3-4.

Horizon and locality. Pliocene clays. Railway cutting at Arbia Creek, near Taverne (Siena). Presented by Prof. De Stefani, 1890.

Genus *Palaeocarpilius* A. Milne-Edwards 1862
Subgenus *Metapodon* Checchia-Rispoli 1946

12) *Palaeocarpilius lorentheyi* Checchia-Rispoli 1946

Palaeocarpilius lorentheyi CHECCHIA-RISPOLI, 1946, p. 110, figs. 1-3.
Material. I.G.F. 921E, holotype, carapace, without limbs.

Horizon and locality. Eocene. From the white, nodular, marly calcareous, upper portion of « Carcar » and exactly from the southern slope of the hill on the left of the Garoe-Geriban (Nogal, Northern Somaliland) track, at the Km 15.8. (MT 13475, Miss. AGIP 1935-1939).

Family Geryonidae Colosi 1924
Genus *Coeloma* A. Milne-Edwards 1865

13) *Coeloma isseli* Ristori 1886

Coeloma Isseli RISTORI, 1886, p. 119, pl. 2, fig. 10.

Coeloma rupeliense; STAINIER, 1887, p. 87.

Coeloma ? Isseli; GLAESSNER, 1929, p. 120.

Material. I.G.F. 959E, syntype, photographus (pl. 2, fig. 10), internal mould of the carapace, with some legs. I.G.F. from 960E until I.G.F. 971E, syntypes; all the material is much damaged.

Horizon and locality. Middle Pliocene clays. San Venanzio (Modena). Purchased from Sig. Franco Coppi, 1886.

Family Goneplacidae MacLeay 1838
Subfamily Goneplacinae MacLeay 1838
Genus *Goneplax* Leach 1814

14) *Goneplax formosa* Ristori 1886

Gonoplax formosa RISTORI, 1886, p. 111, pl. 3, figs. 11-13.

Goneplax formosa; GLAESSNER, 1929, p. 198.

Goneplax formosa; GLAESSNER, 1969, p. R524, fig. 5a, b.

Material. I.G.F. 612E, holotype, 1 ♂, with chelipeds and some legs partially preserved, figured by Ristori, 1886 pl. 3, figs. 11-13.

Horizon and locality. Pliocene clays and sands. Rapolano (Siena). Purchased from Paolo degli Innocenti, 1885.

15) *Goneplax meneghinii* Ristori 1886

Gonoplax Meneghinii RISTORI, 1886, p. 114, pl. 3, figs. 8-10.

Gonoplax Meneghinii; RISTORI, 1892, p. 89.

Gonoplax Meneghinii; RISTORI, 1896, p. 506.

Gonoflax Meneghinii? (sic!); TETTONI, 1922, p. 161.

Goneplax Meneghinii; GLAESSNER, 1929, p. 199.

Material. I.G.F. 609E, 1 ♀, is the specimen figured by Ristori in pl. 3, fig. 10; I.G.F. 610E, 1 ♂, pl. 3, figs. 8, 9, 9a by Ristori; I.G.F. 611E, probably ♀ as from the original description, but sex is indeterminable as the specimen is badly damaged; all syntypes are without chelipeds.

Horizon and locality. Pliocene clays and sands. Rapolano (Siena).

Purchased from Paolo degli Innocenti, 1885.

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