

Title

Deep water Decapoda collected during the BENTHEDI Expedition in Mayotte region (17/03 au 15/04/1977, R/V *Suroît*)

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Summary

The BENTHEDI 1977 Expedition took place in Mayotte region from March 17 to April 15, 1977, on board the Research Vessel R/V *Suroît* (SISMER, 2015). Trawls and dredges were operated from 150-3716 m (mean depth prospected 524 m), with a few shallow waters collections between 3-50 m. The Crustacea Decapoda of this cruise are deposited in the Muséum national d'Histoire naturelle, Paris (MNHN). They have been studied later after the cruise and appear sporadically in taxonomic revisions published between 1985 and 2012. A compilation of these results is presented herein with a list à 47 Decapoda extracted on December 2, 2015 from the CRUSTA a database maintained online by Legall & Poupin (2015). Taxonomic classification follows De Grave *et al.* (2009) and WoRMS (2015). Photographs of several species can be consulted via Legall & Poupin (2015) using this link http://crustiesfroverseas.free.fr/search_result.php?refregion=BENTHEDI

List of Decapoda from BENTHEDI

ORDER DECAPODA Latreille, 1802

SUBORDER DENDROBRANCHIATA Bate, 1888

Superfamily Penaeoidea Rafinesque, 1815

Family Aristeidae Wood-Mason & Alcock, 1891

***Hemipenaeus carpenteri* Wood-Mason & Alcock, 1891**

Hemipenaeus carpenteri - Crosnier, 1985: 862, BENTHEDI, st. CH 82, 3450 m, 1 abdomen
MNHN Na6383, st. CH 90, 3700 m, 2 females 23.0 et 28.4 mm, MNHN Na6382.

***Plesiopenaeus armatus* (Bate, 1881)**

Plesiopenaeus armatus - Crosnier, 1985: 863, BENTHEDI, st. CH 13, 2300-2500 m, 1 female
45.1 mm, MNHN Na6386, st. CH 90, 3700 m, 1 female 74.5 mm, MNHN Na6387.

Family Benthescymidae Wood-Mason in Wood-Mason & Alcock, 1891

***Benthescymus altus* Bate, 1881**

Benthescymus altus - Crosnier, 1985: 857, BENTHEDI, st. CH 13, 2300-2500 m, 1 female 28.5 mm, MNHN Na6446; st. CH 82, 3450 m, 1 tip of tail MNHN Na6380.

***Benthescymus laciniatus* Rathbun, 1906**

Benthescymus laciniatus - Crosnier, 1985: 851, BENTHEDI, st. CH 13, 2300-2500 m, 2 males 19.3 and 36.0 mm, 1 female 39.2 mm, MNHN Na6449.

***Benthescymus seymouri* Tirmizi, 1960**

Benthescymus seymouri - Crosnier, 1985: 847, BENTHEDI, st. CH 87, 3716 m, 1 male about 40 mm, MNHN Na6451.

***Benthescymus tirmiziae* Crosnier, 1978**

Benthescymus tirmiziae - Crosnier, 1985: 857, BENTHEDI, st. CH 13, 2300-2500 m, 1 male 30.5 mm, 2 females 27.1 and 28.8 mm, MNHN Na6381.

***Benthescymus urinator* Burkenroad, 1936**

Benthescymus urinator - Crosnier, 1985: 843, BENTHEDI, st. CH 90, 3700 m, 1 female 23 mm, MNHN Na6379.

Family Penaeidae Rafinesque, 1815

***Metapenaeopsis incisa* Crosnier, 1991**

Metapenaeopsis incisa - Crosnier, 1991: 277, Glorieuses, BENTHEDI, 8 April 1977, st. D 101, 11°25.7'S, 47°19.5'E, 26 m, coral sand, 1 male 7.0 mm, MNHN Na12630.

Family Sicyoniidae Ortmann, 1898

***Sicyonia fallax* De Man, 1907**

Sicyonia fallax - Crosnier, 1985: 874, Glorieuses, BENTHEDI, st. F 103, 150-670 m, 1 female 6.5 mm, MNHN Na6456. - Crosnier, 2003: 259 (same specimen).

***Sicyonia robusta* Crosnier, 2003**

Sicyonia robusta Crosnier, 2003: 324, Banc du Geyser, BENTHEDI, 21 March 1977, st. S 15, 12°22'S, 46°23.7'E, 20 m, 1 male 2.0 mm, MNHN; Mayotte, st. S 18, 22 mars 1977, South îlot Gombé Doumé, 12°45'S, 45°15.9'E, mud sand, 15 m, 2 males 2.1 and 2.3 mm, 2 females 2.1 mm, MNHN Na 13528 and 2.2 mm, MNHN.

Family Solenoceridae Wood-Mason in Wood-Mason & Alcock, 1891

***Haliporus thetis* Faxon, 1893**

Haliporus thetis - Crosnier, 1985: 863, BENTHEDI, st. CH 13, 12°12.7'S, 46°40.8'E, 2300-2500 m, 2 males 24.5 et 28.5 mm, MNHN Na6370. - Crosnier, 1988: 585, same specimens plus BENTHEDI, st. CH 82, 11°59.8'S, 45°42.6'E, 3450 m, 1 female 38,1 mm, MNHN Na9987.

INFRAORDER CARIDEA Dana, 1852

Superfamily Oplophoroidea Dana, 1852

Family Oplophoridae Dana, 1852

***AcanthePHYra curtirostris* Wood-Mason & Alcock, 1891**

AcanthePHYra curtirostris - Crosnier, 1987: 697, BENTHEDI, st. CH 31, 12°37.4'S, 45°25.2'E, 800 m, st. CH 90, 11°44'S, 47°30' E, 3700m, MNHN.

***AcanthePHYra indica* Balss, 1925**

AcanthePHYra indica - Crosnier, 1987: 697, large Banc du GeYser, BENTHEDI, st. CH 82, 11°59.8'S, 45°42.6'E, 3450 m, MNHN.

***AcanthePHYra quadrispinosa* Kemp, 1939**

AcanthePHYra quadrispinosa - Crosnier, 1987: 697, off Banc GeYser, BENTHEDI, st CH 87, 11°44'S, 47°35'E, 3716 m, st. CH90, 11°44'S, 47°30'E, 3700 m, MNHN.

***AcanthePHYra smithi* Kemp, 1939**

AcanthePHYra smithi - Crosnier, 1987: 697, BENTHEDI, st. CH 82, 11°59.8'S, 45°42.6' E, 3450 m ; st. CH 87, 11°44'S, 47°35' E, 3716 m, MNHN.

***AcanthePHYra tenuipes* (Bate, 1888)**

AcanthePHYra tenuipes - Crosnier, 1987: 697, BENTHEDI, st. CH 82, 11°59.8'S, 45°42.6' E, 3450 m, 1 male 14 mm, MNHN Na9966.

***Heterogenys microphthalma* (Smith, 1885)**

Heterogenys microphthalma - Crosnier, 1987: 698, off Mayotte BENTHEDI, st. CH 82, 11°59.8'S, 45°42.6'E, 3450m ; st. CH 87, 11°44'S, 47°35'E, 3716 m, st. CH 90, 11°44'S, 47°30'E, 3700 m, MNHN.

***Janicella spinicauda* (A. Milne-Edwards, 1883)**

Janicella spinicauda - Crosnier, 1987: 698, off Mayotte, BENTHEDI, st. CH 82, 11°59.8'S, 45°42.6'E, 3450m ; st. CH 87, 11°44'S, 47°35'E, 3716 m, MNHN.

***Systellaspis debilis* (A. Milne-Edwards, 1881)**

Systellaspis debilis - Crosnier, 1987: 699, off Mayotte, BENTHEDI, st. CH 31, 12°37.4' S, 45°25.2'E, 1800 m, 2 ovigerous females 12.8 et 13.3 mm, MNHN Na9977; st. CH 87, 11°44'S, 47°35'E, 3716 m, 1 male 11.8 mm, 1 female 10.6 mm, 1 ovigerous female 13.3 mm, MNHN Na9868.

***Systellaspis pellucida* (Filhol, 1885)**

Systellaspis pellucida - Crosnier, 1987: 720, off Mayotte, BENTHEDI, 4 April 1977, st. CH 90, 11°44'S, 47°30'E, 3700 m, 1 female 13.2 mm, MNHN Na9877.

Superfamily Nematocarcinoidea Smith, 1884

Family Nematocarcinidae Smith, 1884

***Nematocarcinus productus* Bate, 1888**

Nematocarcinus productus - Burukovsky, 2000 (79-2): 162, BENTHEDI, 20 March 1977, off Bank Geysler, 12°12'7"S, 46°40'E, 2550-2300 m, MNHN. - Burukovsky, 2003: 123 (Idem).

Superfamily Palaemonoidea Rafinesque, 1815

Family Palaemonidae Rafinesque, 1815

***Periclimenes lepidus* Bruce, 1978**

Periclimenes lepidus - Li & Bruce, 2006: 699, Mayotte, North Island Pamanzi, BENTHEDI, 27 March 1997, dredge st. 32R, 12°45.1'S, 45°17.9'E, 15-20 m, coral slope with sand, with Heterocongridae, 1 ovigerous female MNHN Na15942.

***Periclimenes uniunguiculatus* Bruce, 1990**

Periclimenes uniunguiculatus - Bruce, 1996: 239, Comoros, off Anjouan, BENTHEDI, st. DS 48, 11°54.6'S, 44°56.8'E, 500 m, 28 March 1977, 1 ovigerous female MNHN Na12870.

***Rapipontonia galene* (Holthuis, 1952)**

Periclimenes galene - Bruce, 1996: 232, Comoros, north of Island Pamanzi, BENTHEDI, dredge 25 March 1977, st. 32R, 12°45.1'S, 45°17.9'E, 15-20 m, 1 male, 2 ov. females, 1 juvenile, MNHN Na12866.

***Thaumastocaris streptopus* Kemp, 1922**

Thaumastocaris streptopus - Bruce, 1996: 250, Mayotte, north of Island Pamanzi, BENTHEDI, 27 March 1997, dredge st. 32R, 12°45.1'S, 45°17.9'E, 15-20 m, coral slope leading to sand bottom, 3 juveniles MNHN Na12898, 1 post larva? MNHN Na12899.

Superfamily Crangonoidea Haworth, 1825

Family Crangonidae Haworth, 1825

***Parapontophilus abyssii* (Smith, 1884)**

Parapontophilus abyssii - Komai, 2008: 274, Bank Geysler and Glorieuses, BENTHEDI, st. CH 82, 1 April 1977, 11°59.8'S, 45°42.6'E, 3450 m, 1 female 16.2 mm, MNHN Na16081; st. CH 87, 3 April 1977, 11°44'S, 47°35'E, 3716 m, 6 females 13.1-17.8 mm, MNHN Na16082; st. CH 90, 4 mars 1977 11°44'S, 47°30'E, 3700 m, 1 male MNHN Na 9876.

***Parapontophilus longirostris* Komai, 2008**

Parapontophilus longirostris Komai, 2008: 305, Mayotte, BENTHEDI, st. CH 31, 25 March 1977, 12°37.4'S, 45°25.2'E, 1800 m, 25.III.1977, 1 male 7.3 mm, MNHN Na16214.

INFRAORDER ACHELATA Scholtz & Richter, 1995

Family Palinuridae Latreille, 1802

***Puerulus gibbosus* Chan, Ma & Chu, 2013**

Puerulus gibbosus Chan, Ma & Chu, 2013: 222, off Mayotte, BENTHEDI, st. F49, 12°55'S, 44°57'E, 300-450 m, 28.03.1977, 1 female cl 37.8 mm (MNHN-IU-2010-6080).

Family Scyllaridae Latreille, 1825

***Chelarctus cultrifer* (Ortmann, 1897)**

Chelarctus cultrifer - Holthuis, 2002: 572, Glorieuses, 19 mars 1977, BENTHEDI, st. 8 DR, 11°29,2'S, 47°18,2'E, 250 m, 1 female ovigère 28 mm, MNHN Pa601. - Yang & Chan, 2012, 450, table 1, *C. cultrifer cultrifer*, MNHN-IU-2011-5106, Islands Glorieuses, JX486083, specimen from BENTHEDI.

INFRAORDER POLYCHELIDA Scholtz & Richter, 1995

Family Polychelidae Wood-Mason, 1875

***Polycheles typhlops* Heller, 1862**

Polycheles typhlops - Galil, 2000: 357, Mayotte, BENTHEDI, st. 61F, W of Grande Passe, 510-474 m, 29.03.1977, MNHN-Pa 1708; st. 114 F, 12°22.3'S, 46°28.2'E, 300-600 m, 11.04.1977, MNHN-Pa 1710.

***Stereomastis sculpta* (Smith, 1880)**

Polycheles sculptus - Galil, 2000: 342, off Mayotte, BENTHEDI, st. CA 31, 12°37.4'S, 45°25.2'E, 1800 m, 25/03/1977: 2 males 20.4, 24.4 mm, MNHN-Pa 1709.

INFRAORDER ANOMURA MacLeay, 1838

Superfamily Galatheoidea Samouelle, 1819

Family Galatheidae Samouelle, 1819

***Galathea aegyptiaca* Paul'son, 1875**

Galathea aegyptiaca - Macpherson & Robainas-Barcia, 2015, Mayotte, BENTHEDI, st. 16R, 12°45.2'S; 45°16.7'E, 3–8 m, 22 March 1977: 2 ov. F 2.7–2.8 mm; 2 F 1.9–2.0 mm, MNHN-IU-2013-8009.

***Galathea eulimene* Macpherson & Robainas-Barcia, 2015**

Galathea eulimene Macpherson & Robainas-Barcia, 2015: 112, Comoros Islands. BENTHEDI, st. 32R, 12°45.1'S, 45°17.9'E, 15–20 m, 25 March 1977: 3 M 1.7–2.1 mm, 3 F 1.6–2.0 mm (MNHN-IU-2013-13967).

***Galathea tanegashimae* Baba, 1969**

Galathea tanegashimae - Macpherson & Robainas-Barcia, 2015: 307, Mayotte Island, BENTHEDI, st. R19, 12°46.2'S, 45°15'E, 3 m, 22 March 1977: 1 F 2.1 mm (MNHN-IU-2013-14107), st. R106, 12°25.5'S, 46°16.3'E, 18–24 m, 9 April 1977: 1 F 2.3 mm (MNHN-IU-2013-14132), st. 110FL, 12°25.6'S, 46°16.2'E, 24 m, 10 April 1977: 1 ov. F 2.5 mm (MNHN-IU-2013-14108).

Superfamily Paguroidea Latreille, 1802

Family Diogenidae Ortmann, 1892

***Areopaguristes micheleae* Rahayu, 2005**

Stratiotes micheleae - Rahayu, 2007: 528, Mozambique Channel, BENTHEDI, st. DR 38, Mayotte, East of Bandelé reef, 12°54.8'S, 45°15.6'E, 200-500 m, 26.III.1977, 1 female Lc 2.4 mm, MNHN.

***Paguristes palythophilus* Ortmann, 1892**

Paguristes palythophilus - Rahayu, 2007: 521, off Mayotte, Mozambique Channel, BENTHEDI, st. DR 38, Mayotte, East of Bandelé reef, 12°54.8'S, 45°15.6'E, 200-500 m, 26.III.1977, 1 female Lc 3,0 mm, MNHN.

***Pseudopaguristes laurentae* (Morgan & Forest, 1991)**

Pseudopaguristes laurentae - Rahayu, 2007: 526, BENTHEDI, West of Glorieuses, st. DR 8, 11°29.2'S, 47°18.2'E, 250 m, 19 March 1977, 1 female Lc 1.5 mm, 2 males Lc 1.8 and 2.0 mm (MNHN), 1 male Lc 1.8 mm, 1 female Lc 2.2 mm, 1 female ovigerous Lc 2.0 mm (MNHN); st. DR 38, Mayotte, East of Bandelé, 12°54.8'S, 45°15.6'E, 200-500 m, 26.III.1977, 1 female Lc 3.0 mm, MNHN; West of Grandes Glorieuses, st. F 98, 11°35.5'S, 47°16.5'E, 280-460 m, 7 March 1977, 1 male Lc 3.0 mm (MNHN).

Family Parapaguridae Smith, 1882

***Paragiopagurus boletifer* (de Saint Laurent, 1972)**

Sympagurus boletifer - Lemaitre, 1994: 382, Mayotte, BENTHEDI, st. 49F, Bovéni Passage, 300-450 m, 28 March 1977, 1 male Sl 7.0 mm, 2 females Sl 6.1 and 7.0 mm, MNHN Pg5138.

***Strobopagurus sibogae* (de Saint Laurent, 1972)**

Strobopagurus sibogae - Lemaitre, 2004b: 369, Glorieuses, BENTHEDI, st. 98F, 7 March 1977, 11°35.5'S, 47°16.5'E, 260-460 m, 1 female Sl 6.7 mm, MNHN Pg7132.

***Sympagurus dofleini* (Balss, 1912)**

Sympagurus dofleini - Lemaitre, 2004a: 129, BENTHEDI, st. DS 122, 11°32'S, 47°23.2'E, SE Glorieuses Islands, 615-625 m, 12 April 1977, 1 male sl 7.8 mm, MNHN Pg 5757); st. F 123, 11°31.8'S, 47°23.5'E, SE Glorieuses Islands, 700 m, 12 April 1977: 1 male sl 19.4 mm, MNHN Pg 5758.

Family Pylochelidae Bate, 1888

***Cheiroplatea stenurus* Forest, 1987**

Cheiroplatea stenurus Forest, 1987a: 99, fig. 29, Mayotte, BENTHEDI, st. DR38, 26 March 1977, 12°54.8'S, 45°15.6'E, 200-500 m, holotype male Sl 1.8 mm, MNHN Pg3490; 1987b: 316, distribution and ethology. - McLaughlin & Lemaitre, 2009: 176, re-examination of type specimen.

***Pomatocheles stridulans* Forest, 1987**

Pomatocheles stridulans Forest, 1987a: 127, fig. 37a-d, 38a, b, Mayotte, BENTHEDI, 28 March 1977, st. F49, 12°54.6'S, 44°56.3'E, 300-450 m, holotype ovigerous female 2,2 mm, MNHN Pg2899; 1987b: 315, distribution and ethology. - McLaughlin & Lemaitre, 2009: 193, re-examination of type specimen.

***Trizocheles hoensonae* McLaughlin & Lemaitre, 2009**

Trizocheles balssi - Forest, 1987: 196, Mayotte, BENTHEDI, see material under McLaughlin & Lemaitre (2009), not *Trizocheles balssi* (Stebbing, 1914). - *Trizocheles hoensonae* McLaughlin & Lemaitre, 2009: 205, Mayotte, BENTHEDI, 27 March 1977, st. DR41, 13°05'S, 45°05.5'E, 500-300 m, holotype male SI 4.9 mm, MNHN Pg3758. Paratypes: Mayotte, st. F54, 28 March 1977, 13°01'S, 44°55.3'E, 530 m, 1 male SI 4.6 mm, MNHN Pg8053; Glorieuses, st. DS120, 12 April 1977, 11°30'S, 47°24.7'E, 335-390 m, 1 male SI 3.8 mm, MNHN Pg3760; Glorieuses, st. F98, 7 April 1977, 11°35.5'S, 47°16.5'E, 280-460 m, 1 male SI 4.3 mm, 1 ovigerous female SI 4.2 mm, MNHN Pg3759.

INFRAORDER BRACHYURA LINNAEUS, 1758

Superfamily Dromioidea De Haan, 1833

Family Dromiidae De Haan, 1833

***Metadynomene crosnieri* McLay, 1999**

Metadynomene crosnieri McLay, 1999: 530, Glorieuses, 7 June 1977, BENTHEDI, 11°32.00'S 47°16.40'E, 330-440 m, 1 female 23.2x22.7 mm, MNHN B22510 (first id as *Dynomene devaneyi* by McLay). - Cleva *et al.*, 2007: 248, type catalogue in MNHN, holotype from Glorieuses, BENTHEDI.

Superfamily Homoloidea De Haan, 1839

Family Homolidae De Haan, 1839

***Homolochunia valdiviae* Doflein, 1904**

Homolochunia valdiviae - Guinot & Richer de Forges, 1995: 430, Mayotte, BENTHEDI, 29 mars 1977, st. F 61, 12°46'S, 44°58'E, 475-510 m, 1 female ovigerous 35.7x25.8 mm, MNHN B24270.

***Paromolopsis boasi* Wood-Mason in Wood-Mason & Alcock, 1891**

Paromolopsis boasi - Guinot & Richer de Forges, 1995: 355, fig; 18f-h, 19a-b, Mayotte, BENTHEDI, 29 mars 1977, st. F 61, de la Grande Passe de l'ouest, 12°46'S, 44°58'E, 450 m, 1 female ovigerous, MNHN B19886.

Superfamily Goneplacoidea MacLeay, 1838

Family Goneplacidae MacLeay, 1838

***Psopheticus crosnieri* Guinot, 1990**

Psopheticus crosnieri Guinot, 1990: 351, Mayotte, BENTHEDI, st. F 61, West of Grande Passe, 29 March 1977, 12°46.0'S, 44°58'E, 475-510 m, 1 male MNHN B19859.

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