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Charles Darwin's Beagle Collections in the Oxford University Museum

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SUMMARY

One hundred and ten numbered lots of reological specimens and several specimens of rocks collected by Charles Dawnin during the second voyage of H.M.S. Reagle (18/31-1885) are commandine the collections of the Cofford Unberlay Moseum. The circumstances which led to their acquisition are outlined. Most of this matter increases the compress "higher" crustaceans but a few other invertebrate groups are also represented. A systematic identification has been made of these specimens and their condition is briefly described.

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Following the return of H.M.S. Beagle from her second hydrographic commission in October 1886, much of the anological material collected on the voyage by Charles Durwin was subsequently entrusted for steerinful description to Thomas Bell (1792–1888), in 1625 Bell vosalogical collections charled discreptions of Thomas Bell (1792–1888), in 1625 Bell vosalogical collections charled supervisories sections of the proposed of the pr

In 1926 some Beagle specimens were sent by G. D. Hale Carpenter (Hope Professor of Zoology (Entomology) from 1922 to 1948) to W. T. Calman of the British Museum (Natural History) for examination. We must presume that this material was returned to Oxford, although there is no record in the Hope Department loan catalogue of the transaction and the only documentation of its having occurred is a

letter from Carpeters to Dr. Isabella Gordon of the British Museum (Natural History) dated 1948 satisp for tools for the material seat to Caliman. In 1852 and 1975 further anological specimens were transferred from the Buper Collections to the condections to the condections since 1976 have revealed that they contain many of the crustacents described by Bell, including type specimens, many of which were thoughts to have described by Bell, including type specimens, many of which were thoughts to have looked to the specimens originated from the Rogicel collections. These have been identified by us as far as it has been possible from current literature (see p. 201), and they have been correlated with Develor's own list of collections and other norself

In addition to the material mentioned above, there are a number of insects in the Host above, the statement of this sum handwriting which are also part of the Beagle collections. The acquisition of this material is explained by Poulton (1999; 202-3) and formed the subject of the paper on Darwis's insect collection by K. G. V. Smith (1987).

Finally, we have identified several specimens of rocks collected by Darwin during the Bengie voruge and one in the Goological Collections of the Confert University Massam. These Darwin specimens form pair of the Charles Dasbeety (1792–1867). The Conference of the

There may be other Darwin specimens in the Daubeny collection, norwithstanding that the Beagle rock collection in the Mineralogy and the Petrology Museum in Cambridge; almost complete, but since Darwin's, name appears nowhere else in Daubeny's manuscript catalogue to his collection, such specimens will be discovered only when Darwin's numbers or handwriting are recognised.

PRESENT STATE OF THE COLLECTION

The Darwin zoological material discussed here comprises chiefly crustacenss and a few other invertebrate. Some of these specimens are preserved off whereas other are in admission, but it is clear from Darwin's notes that cognishly all the material was been as the contract of the contra



Figure 1. A drawer from the Bell cabinet containing Beagle crustaceans and showing the present condition of this dry material.

are while in Figure 1. Six specimens are associated with brown paper labels (in addition to a metal gab bearing a specimen mather in a handwring which appears to be that of Darwin's servant and amanuemis, Symx Covington. The spirit material is now all contained in special 'Darwin' jac free beloot' jac 19-6 for the Chrusacco, is now all contained in special 'Darwin' jac free beloot' jac 19-6 for the Chrusacco metal or the part of the p

HISTORICAL BACKGROUND

In recent years there has been a growth of interest in Darwin's Reegle collections and the present whereaboust of most of these collections have been established (see Porter, 1985, for an authoritative overview). The bails of the animals, plants, rocks by the standards of many active interests, the contractive property of the property of the standards of many active interests, realized to describe those specimens which he date on which to deal and zoologists he recruited to describe those specimens which he date on with 10 to 410 with hinterf, such as the barnels and arrow weren. One of the few grops of animals from the vorgat can acknowledge apert on the group for includion in a projected complete Zoology of the Bengle. In the event, only the vertebrates from the voyage were described, of which plants are that the crystage can be group for includion in a projected complete Zoology of the Bengle. In the event, only the vertebrates from the voyage were described, of which plants are than the crystage can be group for the gr

It is clear that all the specimens given to Bell were originally preserved in spirits by Darwin, and nearly all the extants specimens have numbers that agree with those listed in the "Catalogue" for specimens in spirits of wine" (referred to hereafter as the "Catalogue") and which is tooks qu'inglesqu'e li Down House, Darwin's home in Kent. This "Catalogue" comprises three red pocket nonebooks with soft covers and was briefly described by Bathow (1945-25). It is a chronological limit of specimens ordered throughout the vorage and the numbers or disided as follows: 1-600 (first numbers representative the last strectiones entry).

All the crustaceans listed in this "Catalogue" are marked in pencil with a letter "("(Herbert, 1974), this was to enable Sym Covington (see above) to copy out a separate list to accompany the Crustacea collection for the use of the zoologist who intended to study the collection. Our attempts to loates this list have been ususcessful. It is possible that Covington never prepared the list of Crustacea before he was consequed on the Reader's before the recarded limitation.

There are about 230 lots marked with a "C" in the "Catalogue" but we have only succeeded in identifying 110 of these lots in the Oxford University Museum collections, so that it would appear that much material still remains to be discovered. In this paper, with a very few exceptions, only the 110 lots we have identified are

listed, so that for a complete list of Darwin's Beagle Crustacea the reader must consult Darwin's original "Catalogue".

Another source of information concerning Darwir's zoological collections is the manuscript "Dary of observations on zoology of the places withed during the vogage (of H.M.S. Beegle)", referred to in this paper as the "Zeology Diay" which Darwin write concurrently with his more general "Personal Diay" of day-ods; affaint and write concurrently with his more general "Bernard Diay" of day-ods; affaint archive at Cambridge University Library. With the kind assistance of Mr Peter Gantry (in has been possible to examine fan and bartrant all duar relevant to the Oxford University) Museum specimens. Since this "Zeology Diay" was used a relevant to the oxford University Museum specimens. Since this "Zeology Diay" was used as of particular interest. Oxcasional convertences to the "Zeology Diay" oxformation are of particular interest. Oxcasional convertences to the "Zeology Diay" oxformation oxformation

There are two references to Crustacea in a manuscript entitled "Notes on the preservation of speciment", which is bound as the last part of DAR 29(fill) in the Cambridge University Library. These references read as follows: "Not to keep Crustacea with other things owing to the black tings they give to the spirits." "Crustacea cought to have proof spirits and the Brachvuir well empited of water & inclination in the absomer." This manuscript would appear to have been written by Darwin before the Beegle set sail, as instructions to himself on how to preserve the speciment he intended to collect.

Finally, a manuscript catalogue compiled by Thomas Bell and in the Hope Library contains Darwinian "Catalogue" numbers entered against Bell's own numbers along with tentative generic identifications.

INTERPRETATION OF THE "CATALOGUE" AND REAPPRAISAL OF THE BEAGLE SPECIMENS

Dawish "Catalogue" is writen in ink, except for entries 1474 to 1529 which are in pendi (see Herbert, 1974-229). Information is inscribed on early right-hand page of the notebook. At the top of each page appears (nearly always) the date and locality followed by a verifically arranged sequence of numbers and entainst identifications with occasional further information. Sometimes several localities are given below the window of the control of the control

are merged with the main entries in the list of *Deegle* specimens given here (pp 202-226), although enclosed within square brackets. Since these comments were numbered by Darwin, they can be tied unambiguously to, and were almost certainly written at the same time as, the main entries.

A taxonomic reappraisal of the Beugle specimens has been made with the help of study reference collections in the British Museum (Natural History) and the following literature: Abele (1972), Barnard (1950), Bollman (1889), Bott (1969, 1973), Bousfield (1982), Campbell & Griffin (1966), Chace (1956, 1968), Crane (1975), Fize & Serene (1955), Forest & Saint Laurent (1967), Garth (1946, 1958), Haig (1955, 1960, 1964), Holthuis (1952, 1954), Lucas (1980), Manning (1969, 1911), Manning & Holthuis (1981), Menzies (1961), van Name (1958), Pretramann (1972), Rathbon (1971, 1918, 1925, 1930, 1937), Sakzi (1976), Schmitt (1942), Stebbing (1914), Stephenson & Hudson (1957.)

The following entry (taken from page 227) of this Beagle specimen list is given as an interpretive example of the format used. All editorial matter is indented, or italicised within brackets if it interrupts the "Catalogue" text.

1833 March Tierra del Fuego ----- top of page entry in "Catalogue"

551 Sphaeromidae from stones & a Crust. "Catalogue" number and Darwin's Macrouri. from stomach of a Gadus identification Glood Sluccessi Bay

6/12924

current editorial comment (in this instance to explain abbreviated locality)
 Oxford University Museum registration

Decapoda: Galatheidae ----- order and family names

Munida subrugosa (White) ----- generic name, specific name, author of species

Remarks: relate to the present condition of specimens and relevant information. In interpreting Davin's notes it is earlied to know that he took his names for colours from Partick Syne's edition of Werner's nonenclature of colours (Edisburgh, BEI) and that he had not alwalshes of the Rogal's lam Beights Bery of Saint.

(Paris, 1822-1831) (see under specimen 1998). Duravin also refers (under specimen 1975) to Juan Iganos Molina's Compendio de le histories georgient natural; critical del Rogal's provided in an appealch to Berkshard & Saint (1983).

LIST OF BEAGLE SPECIMENS

January 1832 Cape Verdes 12 Jan. 17 & 18.: 5 small Crustacea from Quail island

4/12897

Clibanarius sp.

Remarks: fragmented.

4/12898

Epixanthus helleri A.Milne Edwards

Decapoda: Porcellanidae
 Petrolisthes 7 cessacii (A.Milne Edwards)
 Remarks: condition very poor.
 [Jan. 22nd]
 40 Centipedes Arachnida. NE of Port Praya.
 4/12501-2
 Isopoda: Idoteidae
 7/dotes ps.

59 Containing Crustacea, Echiura, Siphunculus & white animal allied to it: Actinea, Fisurella, Chiton, W of Quail Island

Dry 2/14516
Decapoda: Calappidae
Cyclors bairdii Stimpson

Cyclose bairdii Stimpson Remarks: this may be a new record for the Cape Verde Islands. Chace (1968) gives the range as St Helena and the S. Atlantic. The specimen was labelled by

Bell "Cycloes. Cy: Darwinii B. Darwin 59".
91 Crustacra, Chiton, Bulla [Doris deleted?] (see 1477).

1832 St Jago to Fernando Noronha

108 Porpita. v. 19(b) Crustacea [Biphora deleted] Salpa. 4/12903

Amphipoda: Gammaridea Remarks: condition poor. March [144, 145, 146, 148, 150, 151, 152, 153 Causht at Bahia from Feb 29th to March 17th—]

144 Crab 4/12904 Decapoda: Grapsidae

Sesarma (Holometopus) angustipes Dana

145 Shells. Crustacea & Fish

Decapoda: Majidae Mithrax (Mithraculus) coryphe (Herbst)

4/12906 Decapoda: Xanthidae

Remarks: condition too poor to allow further identification.

4/12907

Isopoda: Valvifera

Remarks: condition very poor but telson distinctive.

[160. . .177 Abrohlos, March 29th]

172 Crustacea

Decapoda: Dromiidae

Dromidea antillensis Stimpson 4/12909

Decapoda: Dorippidae

Ethusa sp.

Remarks: condition poor.

1832 May. Rio de Janeiro 206 Julus (May 5th)

Myriapod jar/12910

Diplopoda: Spirostreptidae Remarks: fragmented.

222 Salt Water Crab: Julus: Lepisma: Worms, Wood lice, Acari

Dry 105/14517 Decapoda: Portunidae

Ovalipes punctatus (de Haan)

Remarks: the metal tag numbered 223 with this specimen is anomalous since 223 is not listed as a crustacean in the "Catalogue".

1832 Monte Video: August

347 Fish. Coast of Patagonia Latitude 38° 20' August 26th—Soundings 14 fathoms. Caught by book & Line V. 77.

Remarks: the fish referred to is *Percophis brasilianus* Cuvier described by Jenyns (1840-1842;23). This fish was "caught by hook and line in fourteen fathoms water on the coast of Patagonia. in lat. 38° 20'" and was noted by Darwin as "when cooked, was good eatine". This specimen is no longer in the Zoological Museum

Cambridge and is presumably not extant.

351 Isopod (Bopyrus 7) on fish: & [curious Decapod deleted: Porcellana inserted],
can swim tail first: & Amphipode &c: [Habitats on Corallina, same as (347) deleted
in penell: 14 fathoms coars of Patagonia inserted in penell].

4/12911 Decapoda: Porcellanidae

Petrolisthes sp. Remarks: condition very poor.

4/12912 Isopoda: Cirolanidae

Cirolana ? urostylis Menzies

1832 Sept: Bahia Blanca 407 Pagurus in a Buccinum

Decapoda: Majidae

Mithrax (Mithraculus) nodosus Bell

Remarks: this specimen appears to have been misnumbered as it is clearly a spider crab and not a pagurid. This species occurs on the Pacific side of S. America far removed from the Argentine locality of 407.

414 Plagusia: body pale.

4/12913 Decapoda: Grapsidae

Cyrtograpsus altimanus Rathbun

436 Plagusia (two species) Separate jar/12914

Decapoda: Grapsidae Cyrtograpsus angulatus Dana

1832

Octob: Bahia Blanca

448 Small Crustacea, from Coralline &c i.e. not pelagic .-4/12915

Isonoda: Idoteidae

Idotea ? metallica Bosc Remarks: condition rather poor.

4/12916

Isonoda: Idoteidae

Idotea ? metallica Bosc 4/12017

Isopoda: Idoteidae

4/12918 Isopoda: Idoteidae

Remarks: condition poor, only anterior half present.

4/12919 Amphipoda: Caprellidae

Remarks: condition poor.

6/12920 Amphipoda: Isaeidae

?Megamphopus sp. Remarks: condition poor.

6/12921 Amphinoda: ?Aoridae

Remarks: condition poor. 1832 November. & Dec. Monte Video

475 Polydesmus, dusky red: & Scutigera: found in ship (British?).

Myriapod jar/12922 Diplopoda: Polydesmidea Remarks: badly broken.

1832 Dec:

491 Crust, Mac V. 98(b) (its young ?) & Crust, Amphipus-off San Blas, Dec. 4th: Remarks: there are long descriptions of entry 491 and of other Crustacea collected on Dec. 4th, in DAR 30 (ii). The following entry appears in Darwin's "Personal Diary" for December 5th-6th while at sea off Patagonia, "During these two delightful days we have been gliding onwards; but at a slow pace. I have been employed in examining some small Crustacea; most of which are not only of new genera, but very extraordinary ones" (see Barlow, 1933). The crustaceans mentioned are probably those described in Darwin's Journal on page 189 (see Darwin, 1839; Burkhardt & Smith, 1985: 307).

Amphinoda: Gammaridea Remarks: condition very poor.

2/11955

Mysidacea: Mysida Remarks: fragmentary.

1832 Dec. 20th Good Success Bay:

507 Crust: (Sphaeromidae) very fine on Fucus. Hermit Island

1/9852 Amphipoda: Gammaridea Remarks: condition poor.

2/11939

Amphipoda: Gammaridea Remarks: several specimens in one tube with one reference number.

2 Dryonoides sn. Kuria sp., several reasonably good specimens. Gammarideans-one single damaged

and one very small specimen.

2/11949

Isopoda: Sphaeromidae Cassidinopsis emarginata (Guérin-Méneville)

Exosphaeroma ? lanceolata (White) Amphoroidea typa H. Milne Edwards

?Dynamenella sp.

Remarks: assorted genera all in one tube, the ?Dvnamenella and ?Exosphaeroma specimens are damaged. 1/9893

Isopoda: Sphaeromidae

Amphoroidea typa H. Milne Edwards 510 Pagurus, Goree Sound

6/12923 Decapoda: Paguridae Pagurus comntus White

Remarks: two fragments only.

1833 March Tierra del Fuego

551 Sphaeromida from stones & a Crust. Macrouri. from stomach of a Gadus.— Glood Slucossel Bay

Officer | 2fm

Decapoda: Galatheidae Munida suhruposa (White)

6/12925

Isopoda: Sphaeromidae Exosphaeroma gigas (Leac

1833 March Falkland Islands

556 Lithobius: [Gonoleptes deleted]: Arachnida: Oniscus. Lumbricus: Falkland Islands

Remarks: there is a dry amphipod (Dry 90) in the collection which is not associated with any Darwin number, but which is pinned to a small paper label inscribed "East Falkland" in Darwin's handwriting. We have identified this as Amphipoda:

Paramphithoidae. 2/11951

Isopoda: Sphaeromidae

Cassidinopsis emarginata (Guérin-Méneville)

560 Sphaeromida & genus closely allied to Atylus; all under stones: Falkland Isd:

1/9889

Isopoda: Sphaeromidae

Exospha

Isopoda: Sphaeromidae

Exosphaeroma studeri Vanhöffen

1/9856 Amphipoda: Eusiridae Bovallia ? regis Stebbing

589 Crustacea: crawling on Corallines: The long one is of a very curious structure:—

6/12926 Tanaidacea

Remarks: condition rather poor.

6/12927 Amphipoda: Eusiridae

?Pontogeneia sp. 6/12928

Isopoda: Sphaeromidae Isocladus calcarea (Dana)

1833 E. Falkland Isd:

601 Cancer. Dry 96/14519

Decapoda: Atelecyclidae

Peltarion spinulosum (White)

Remarks: there is a large brown paper label associated with this specimen with the number "601" inscribed in Covington's handwriting. Another specimen of this species is represented in the Bell collection labelled "Tierra del Fuego 72" but which does not obviously belong to any Bezgle material collected from that region.

603 2 Macrouri. Amphipoda. Sphaeroma.

Decapoda: Paguridae

Pagurus comptus White Remarks: condition poor, hind-end damaged.

6/12932

Amphipoda: Ampithoidae Ampithoe ? brevines (Dana)

Remarks: conditions rather poor.

6/12930 Isopoda: Sphaeromidae

Exosphaeroma lanceolata (White)

6/12931 Decapoda: Caridea Remarks: condition poor.

1833 May Maldonado

611 Fresh W Crust, Amphipod,-colour coppery & metallic lustre.

1/9881

Amphipoda: Gammaridae

617 Lithobius & Julus. Sierra las Animas

Myriapod jar/12933 Chilopoda: Scolopendromorpha

Myriapod jar/12934

Diplopoda: Chilognatha Remarks: broken, only females present.

622 Oniscus. Lithobius. Scolopendra. rocky hills .-

6/12935 Isopoda: Sphaeromidae Isocladus calcarea (Dana)

Remarks: very poor condition.

Myriapod jar/12936 Chilopoda: Scolopendromorpha

1833 June, Maldonado

667 Julus (2 species) Lithobius Myriapod jar/12937

Diplopoda: Chilognatha Remarks: condition very poor.

TI 0 1 W 1 CO 1 D 1 C 1

737 Crab, caught in dry hole in one of the low islands of the R. Parana, above Rosario:—

Dry 26/14521

Decapoda: Trichodactylidae Dilocarcinus (Dilocarcinus) pagei cristatus Bott

753 Crustacea, inhabiting the above [mouth of R. Negro Coral inserted in pencil]

Amphipoda: Caprellidae

?Caprella sp.

1834 Jan: 8th:-

782 Various marine productions. 4 or 5 miles from shore; 19 fathoms; Lat. 48° 56'. 786 Cristacea found with (782)

Arachnid jar/12940

Pycnogonida

6/12938

Isopoda: Sphaeromidae

Isocladus sp.

6/12939 Decanoda: Hymenosomatidae

Halicarcinus planatus (Fabricius) Remarks: specimen very small.

1834 Jan: 800 Crust, sea beach, IP. Desirel

6/12941

0/12941

Isopoda: Sphaeromidae

Exosphaeroma sp. 6/12942

Isopoda: Idoteidae

Edotea sp.

801 Crustacea, pelagic. Watchmen Cape L, 48°,18', [Caught at night, could not catch any by day, under similar circumstances: small white Entom, Inumerous

inserted] creeping (?). Small white Ento: with long antennae very numerous at night Lat 51°, 53' Long 68° 11'.—]

6/12943 Amphipoda: Gammaridea

Remarks: headless and breaking up.

6/12944

Cumacea: Diastylidae

802 Crust. Isopoda.—I believe certainly was on the body of a large dog fish, colour above, mottled greenish grey & tile red, edge [dark brown inserted]. [Same locality as last.—I 7/12945 Isonoda: Cirolanidae

2Cirolana sp.

1834 Jan: Sts. Magellan .-

810 3 Crustacea; Amphipod, with three spines, mottled pink & white; Hab: ISt Gregory's Bay. Sts of Macellan 15 fathoms.1

7/12946 Amphipoda: Eusiridae

?Bovallia sp. Remarks: condition poor.

7/12947

Amphipoda: Caprellidae

Remarks: condition poor.

814 Crab. white "above tile red" with pimples of "art. blood do." eggs color of yoke of egg.—[Near Elizabeth. 5 fathoms.]

Dry 99/14522

Decapoda: Lithodidae Paralomis granulosa (Jacquinot)

Remarks: Elizabeth Island is in the Straits of Magellan. The specimen is associated with a brown paper label in Covington's hand and inscribed "\$14 Spirits".

815 Crab. mud colour: eggs bright "scarlet red". [Near Elizabeth. 5 fathoms.]

Dry 100/14523 Decapoda: Maiidae

Europodius latreillei Guérin-Méneville

820 Crab. Macr. [Port Famine]

Dry 104/14524 Decapoda: Galatheidae

Munida subrugosa (White)

Remarks: see Barlow (1965: 231-2, 250) for transcriptions of DAR 29 (ii). MS pp 30, 32, 56 which refer to Crustacea in the stomachs of birds. This specimen

pp 30, 32, 56 which refer to Crustacea in the stomachs of birds. This specimen (820) is specifically referred to as from the much distended stomach of a "Puffinus". 822 Crustacea. Cape Negro

Annelida jar/12948

Polychaeta: ? Amphinomidae Remarks: condition rather poor.

1834 Port Famine

1834 Port Famine 830 Crab, black "brownish orange with purple," legs. mottled "orpiment orange" Dry 108/14525

Decapoda: Majidae Europodius latreillei Guérin-Méneville

urypodius latreillei Guerin-Menevill

833 Crust: Schizopod. St Sebastian Bay. Vast numbers. 12 Fathoms snow white except black eyes. [Caught at night:—Here there were very many Whales:—5 miles out at sea...]

834 Crustacea. S of C. Penas. 11 fathoms. 3 miles out at sea; caught at night. [Largest & most abundant specimen color [pale deleted] red. like half-boiled crab; excessively numerous; (833) & 2nd sized amphipod (with dark blue eyes & back) also very numerous.

7/12949

Amphipoda: Hyperiidae Parathemisto sp. 7/12950 Mysidacea: Mysida

Remarks: fragments only. 1834 Feb: T. del Fuego

837 Crustacea, 13 Fath. 2 miles from shore, caught at night.—Cape Ines. Feb. 19th.— 839 Crust.—some miles to South of (837) under similar circumstances. (ship at anchor at night). [The Amphipod (largest & most specimen) excessively numerous. in different places, different sorts annear predominant.—Vir this species here.—

a Shizopod [7] near St Sebastian (833.834) & other at C. Penas.]

Amphipoda: Hyperiidae Parathemisto sp.

1/9875 Decapoda: Galatheidae

Munida gregaria (Fabricius)

841 Crust: one mile from shore, caucht by night. East of Wollaston Isd.

7/12952 Amphipoda: Aoridae

Lembos ? fuegiensis (Dana) Remarks: condition poor.

7/12953 Amphipoda: ? Hyperiidae Remarks: very small and fragile.

7/12954 Amphipoda: Hyperiidae Parathemisto sp.

Remarks: condition poor.

Isopoda: Sphaeromidae Dynamenella ? eatoni (Miers)

842 Crust, on Corallines, low water mark on Corallines, Wollaston Isd. Arachnid iar/9858

Pycnogonida: Nymphonidae ?Nymphon sp. 1/9844

Amphipoda: Gammaridea

Remarks: condition poor.

1834 Feb: Tierra del Fuego.

850 Crust: 1 mile from shore: 16 Flathomsl caught at night. NE end of Navarin Isd. IIs the small & most numerous specimen with rudimentary legs the young of (834).1

Copepoda: Calanoida (2 specimens)

Mysidacea (1 specimen) Stomatonoda (pseudozoe larva, 1 specimen)

Decapoda (larvae, several specimens)

2/11960

Decanoda: Galatheidae

2Munida sp

Remarks: condition rather poor.

851 Crust: from sea-weed &c at hottom, 16 Fathoms, NF end of Navarin Isd.

Arachnid iar/12960 Pycnogonida: Pycnogonidae

2Purnogonum en

7/12058 Decapoda: Caridea

Remarks: condition poor.

7/12055 Decapoda: Hymenosomatidae

Halicarcinus planatus (Fabricius)

7/12056 Isonoda: Sphaeromidae

Isociadus calcarea (Dana) Remarks: specimens tightly coiled.

7/12959

Amphinoda: Gammaridea Remarks: small and condition very poor.

860 Crist. Mac. V. 217

7/12961 Decanoda: Hinnolytidae

Nauticaris marellanica (A. Milne Edwards)

Remarks: specimen damaged and incomplete. DAR 30 (ii) p 217 reads "March 1st. East end of Beagle Channel,-Roots of Fucus. G. Back "Hyacinth & brownish red" with oblong, marks & spots of gem-like "ultra-marine blue", one white transverse mark & longitudinal one on tail; 1st great legs, same colour as body but penultimate limb centre part white edged with "do blue", antipenultimate ringed with white. "do blue" & "do red", other legs with basal limbs faintly ringed. but ultimate limbs orange.-Sides with oblique stripes "reddish brown". Animal most beautiful.-"

1834 March. Tierra del Fuego

867 Crust, Brachy, & Macro, Hab: East end of Beagle Channel

1/9882 Decapoda: Palaemonidae

?Palaemon sp.

Remarks: damaged. Dry 25/14530

Decapoda: Atelecyclidae

Acanthocyclus albatrossis Rathbun

Dry 27-9/14527-9 Decapoda: Hymenosomatidae

Halicarcinus planatus (Fabricius)

Remarks: a manuscript name is attached to the specimen "H. leachii (Male) Darwin

867"

Hymenosoma leachii Guérin-Méneville is a synonym of Halicarcinus planatus (Fabricius). See also 917.

Dry 3/14526

Decapoda: Majidae Mithrax (?Mithrax) sp.

868 Crust. Amphi. & Isopod. Hab: do. [i.e. as for 867]

2/11956

Amphipoda: Aoridae Lembos fuegiensis (Dana)

Amphipoda: Talitridae

Transorchestia ?chiliensis (H. Milne Edwards)

Isopoda: Sphaeromidae

Dynamenella ? eatoni (Micre) 1834, March, E. Falkland Isd.

903 Crab. South Coast of F. Falkland Isd. Dry 101/14531

Decapoda: Maiidae Eurypodius latreillei Guérin-Méneville

917 Crust: caught as all these marine productions by pulling up roots of kelp.

Decapoda: Hymenosomatidae

Halicarcinus planatus (Fabricius)

Remarks: the specimen bears a label inscribed "H. Leachii (female) Darwin 917":

several legs are missing. Dry 31/14533

Decapoda: Hymenosomatidae

Halicarcinus planatus (Fabricius)

Remarks: appears to be a juvenile; all legs missing.

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Dry 30/14532
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Decanoda: Hymenosomatidae

Halicarcinus planatus (Fabricius)

Remarks: specimen bears another label inscribed "E. Falkland I. (female) 175". The number is probably Bell's

1/9878

Amphinoda: Aoridae Lembos 2 fuegiensis (Dana)

1/9857 & 9877 Amphinoda: Eusiridae

Boyallia ? reeis Stebbine 1/9849

Decapoda: Paguridae

Pagurus comptus White Remarks: only head region represented.

1834 June Port Famine .-

980 Crustacea, Keln Roots.

7/12964

Amphipoda: Eusiridae Royallia ? revis Stebbing

7/12965

Amphipoda: Ampithoidae 2Amnithne sp.

Isonoda: Sphaeromidae

Exosphaeroma studeri Vanhöffen

Isopoda: Sphaeromidae Dynamenella ?eatoni (Miers) Remarks: fragmentary.

1834 July. Chiloe

993 Crust. Scolopendra &c &c

7/12966 Decanoda: Bresiliidae

Myrianod iar/12967 Chilopoda: ?Scolopendromorpha

Remarks: condition poor. Myrianod iar/12968

Chilopoda Remarks: condition very poor.

997 Crab. Brachy: both species tinged with dark crimson red [Keln roots.]

Dry 6-7/14535-6 Decapoda: Xanthidae

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Gaudichaudia saudichaudii (H. Milne Edwards)
  Remarks: bearing a label inscribed "Xa. Gaudichaudii?
  Chile? Darwin 997".
999 Crust, Keln roots
  7/12969
  Decapoda: Alpheidae
  Betaeus truncatus Dana
  7/12970-1
  Decapoda: Caridea
  Remarks: condition very noor.
1000.1001 Squilla: often caught when fishing with nets here; given me.
  Dry 102/14537
  Stomatopoda: Squillidae
  Pterygosquilla armata (H. Milne Edwards)
1005 Small Crust: at sea off Valparaiso, taken chiefly 3 or 4 feet beneath surface.
[day time inserted]. [some minute ones are curious]
  Mysidacea: Mysida
  Decapoda: Caridea
  Remarks: condition poor.
  8/12972-3
  Amphipoda: Gammaridea
  Remarks: condition poor.
  Annelid jar/12975
  Polychaeta: Nereidae
  Remarks: condition poor.
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Remarks: not identified. 1027 Vaginulus V. 272 [see also 1180] 1028 Crust: adhering in numbers on under side of Asterias (1031) 1/9904 Isonoda: Idoteidae Remarks: the association with Asterias may be fortuitous.

Edotea magellanica Cunningham

Copepoda Branchiopoda

1834 Aug: Valparaiso 1029 Crab, above dark "Cochi. R" legs "Hyacinth & tile R" front pincers purplish. Dry 107/14538

Decapoda: Grapsidae

Grapsus grapsus (Linnaeus)

1030 Crab, whole body mottled with "Carm, & purplish R" 94/14539

Decapoda: Cancridae

Cancer polyodon Poeppig

1057 Fresh-water Crust. -Mac. -[Mentioned by Molina as the builder. The mud which it brings up in making its burrows is placed so as to form a circular wall several inches high round the edge of mouth of burrow. -Burrow in marshy field generally near a brook.]

Dry 56-73/14540-57

Decanoda: Aerlidae

Aegla laevis talcahuano Schmitt

Remarks: this material includes both Darwin and Hugh Cuming specimens and it has not been possible to attribute specimens to the relevant collectors. The specimens are all associated with the Catalogue number 1103 (q.v.),

1058 2 Scornions, Gonlinia, Scolonendra Julus, under stones, Mountains Ithe largest Julus emits much vellow fluid with very nuneent smell like mustard.-1

Myrianod jar/12976 Chilopoda: Geophilomorpha

Myriapod jar/12977 Diplopoda: ?Spirostrentidae Remarks: fragmentary.

1834 Nov. & Dec. Archip: of Chiloe

Dry 93/14558

Decapoda: Cancridae Cancer pleheius Poeppie

Remarks: the specimen has a brown paper label inscribed in Covington's hand-

writing "1078 Spirits". 1084 Crabs in the greatest numbers under stones.

Dry 48/14559

Decapoda: Porcellanidae Petrolisthes tuberculatus (Guérin-Méneville)

Remarks: labelled "P. striata Mr Darwin" and on reverse "1084".

Dry 50-1/14560-1

Decanoda: Porcellanidae

Petrolisthes tuberculatus (Guérin-Méneville)

Remarks: labelled "P. sulcatus n.sp. Darwin" and on reverse "1084".

1093 Onisci, F. Water Leaches &c &c 8/12982

? Copenoda

Remarks: only a fragment extant.

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Arachnid jar/12978
  Arachnida: Araneae
  Remarks: lees detached
  Annelida jar/12981
  Chilopoda: ?Scolopendromorpha
  Remarks: fragmenting.
  Myrianod jar/12980
  Diplopoda: Chilognatha
  Remarks: badly broken.
1098 Crust: amphipod; burrows & feeds in the leaves of a Fucus [Growing like the
Durvilleae utilis Dic. Class.-Plates.1
  8/12983
  Amphipoda: ?Dexaminidae
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Remarks: very small.

1101 Lumbricus, Oniscus Scolonendra, C Tres Montes

Arachnid jar/12985 Arachnida: Araneae

Arachnid jar/12986

Arachnida: Araneae Remarks: some less missing.

Annelid iar/12984 Annelida: Oligochaeta

1103 Crabs. F. Water stream [C. Tres Montes] [see under 1057]

2/11835 Amphipoda: Gammaridae

Melita sp.

1/9860

Isopoda: Sphaeromidae Exosphaeroma ? lanceolata (White)

1/9855 Decanoda: Hippolytidae

Nauticaris magellanica (A. Milne Edwards) 1/9880

Decanoda: Paguridae

Pagurus edwardsi (Dana) 1104 Crust, pelagic colourless C. Tres Montes [Caught in day time in harbour several vards beneath the surfacel

1/9879

Conenoda: Calanoida

Remarks: condition very poor. In Darwin's field pocket-book (see Barlow, 1945:229) there is the following entry dated 27th November 1834: "Small crustacea,

purple clouds of infinite numbers pursued by flocks of Famine Petrels" (see also Darwin, 1839:355).

1109 Crustacea pelagic: nighttime: [13 fathoms at C. Tres Montes]

Mysidacea: Mysida

3/12055

Decanoda: Hippidae Emerita ?analoga (Stimpson)

Remarks: the number assigned is uncertain. The specimen was marked "177" probably indicating its Bell Catalogue number. Number 177 in that Catalogue gives "Isopoda" and "Darwin 1109".

1/0976 Isopoda: Cirolanidae

Excirolana? chilensis Richardson Remarks: condition poor.

1110 Crabs: The Amphipoda red coloured under putrid kelp .-

1/9847 Amphipoda: Gammaridea

Remarks: condition very poor.

1834 Decemb. Isd. of Inchin. North Part of Tres Montes 1114 Crustaces (littoral)

8/12001

Amphipoda: Gammaridea

Remarks: condition poor. 8/12988

Decanoda: Maiidae

Pelia ? nacifica A. Milne Edwards

Decapoda: Hymenosomatidae Halicarcinus nlanatus (Fabricius)

8/12990 Isonoda: Sphaeromidae

Amphoroidea typa H. Milne Edwards 8/12987

Decapoda: Porcellanidae Allonetrolisthes? angulosus (Guérin-Méneville)

1124 Crustacea, by night: pelagic in harbour several feet beneath surface. [caught in middle of covel

2/11942

Decanoda: Alpheidae

Synalpheus spinifrons (H. Milne Edwards)

1127 Crust. Mac: caught in middle of cove, beneath surface, at night, must [be excessively numerous, because both great herds of seal & Tern appear to live on them; Above light purplish black, mouth, joints, rings of abdomen & all thin places, fine purplish red:-Anna Pinks [2] Harbor, Jan 4th.-1

Dry 74-5/14562-3

Decapoda: Galatheidae

Munida gregaria (Fabricius)

Remarks: specimen 74 has the chelipeds present but detached. The specimens are labelled "Gr. gregaria Chili? Darwin" and on the reverse "1127". Gr = (Grimothoe) was the name once given to the late larval stage of Munida gregaria.

Dry 80-1/14564-5 Decanoda: Diogenidae

Clibanarius ? nanamensis Stimpson

8/12992 Cirripedia: Thoracica

Remarks: badly damaged.

1835 Jany, Chiloe

1152 Crab, above uniform dull red.

Dry 92/14566 Decanoda: Cancridae

Cancer plebeius Poeppig

1155 Balanus, buried in a [stick?] [& a Crust Macrouri deleted] [see 1499] 1164 Amphipoda: Crust: feeding on dead crab on sand beach at Cucao-Chiloe

8/12993

Amphipoda: Talitridae

?Talorchestia sp. 1166 Hermit Crab: Chonos Archipel.

5/11893

Decapoda: Paguridae Pagurus ? perlatus H. Milne Edwards

1835 Feb. Valdivia

1180 Vaginulus V. 272(a)

Remarks: this entry is an anomaly because there is no reference to Crustacea. Dry 23/14567

Decapoda: Gransidae

Hemigrapsus crenulatus (H. Milne Edwards) Remarks: unnumbered but associated with label inscribed by Darwin "Valdivia".

3/12444 Decapoda: Porcellanidae

Petrolisthes edwardsii (Saussure) 1195 Crab-Coquimbo

Dry 52/14568

Decapoda: Porcellanidae

Petrolisthes desmarestii (Guérin-Méneville)

Remarks: specimen inscribed "P. Darwinii Mr Darwin" and on the reverse "1195".

1203 Squilla Coquimbo

Separate jar/12440

Pseudosquillopsis ? lessoni (Guérin-Méneville)

1209: 210 Crabs

Myriapod jar/12994

Remarks: fragile.

Arachnid jar/12995

Myriapod jar/12996

Myriapod jar/12997

Remarks: fragmented. 1223 1224 Crabs. [Coquimbo]

Dry 106/14570

Decapoda: Pinnotheridae Pinnotherelia laevieata H. Milne Edwards & Lucas

by Darwin "Lima". It could therefore belong to any of the samples from Peru

known to have contained crustaceans (possible numbers are 1247, 49, 50, 56, 57, 1262). The specimen has been mistakenly placed next to specimens labelled Trapezia.

Dry 9-10/14572-3

Decapoda: Xanthidae

Remarks: labelled "Pi: perlatus Peru? Darwin".

1247 Crab, above purple, legs speckled.

Decapoda: Cancridae

Remarks: bears a brown label numbered "1247" in Covington's hand.

1249 Crab. white, back with purple punctures & legs marked with paler do. Dry 97/14575

Decapoda: Portunidae

Ovalines nunctatus (de Haan)

Remarks: bears an attached broken metal tag which reads ". . 49" and which we presume to have been originally 1249.

1250 Crab. beautifully marked with dark Lilac purple. in regular forms, colour brighter on legs. [Crab. very common, when taken draws all its legs close to its body & shams death.—1

Dry 109/14576

Decapoda: Calappidae

Hepatus chilliensis H. Milne Edwards Remarks: an attached brown paper label is inscribed "1250 Spirits" in Covington's hand.

1835 August Lima-

1256 Crabs. Coquimbo Mr. King.

Dry 53-5/14577-9 Decanoda: Porcellanidae

Allopetrolisthes angulosus (Guérin-Méneville)

Remarks: labelled "P. unidentata n.s Mr. Darwin".

Decapoda: Majidae Micronhrys sp.

1259 Crab. Mac. [Coquimbo]

2/11836 Decapoda: Alpheidae Remarks: some less missing

2/9859 Decanoda: Bresiliidae

?Bresilia sp. Remarks: slightly damaged. 1262 Decapod Notapod [Callao]

Dry 49/14581 Decapoda: Porcellanidae

Petrolisthes sp. Remarks: labelled "P. elongata. Darwin".

1835 Septemb. Galapagos. Chatham Isd. 1269 Fish. See (1270)

1270 Crust Parasit on Fish (1269)

2/11950 Copepoda: ?Siphonostomata

Remarks: in fair condition. Jenyns (1840-42) remarked that all Darwin's fishes reached England intact and that each had a numbered tin label attached. Specimen 1269 was described by Jenyns as Cossybus darwini (now Pimelometoon darwini)

The Complete Work of Charles Depuis Online

(Jenyns)) and is in the British Museum (Natural History); accession number 1918.1.31.11.

Dry 79/14582

Decapoda: Palaemonidae Remarks: fragmentary, not numbered but labelled "Galapagos" in Darwin's handwriting. Possible Galapagos numbers for crustaceans are 1277-8.85. 90-1,

1835 Sept. Galapagos.-Charles Isd.

1298 Scolopendra. dark reddish brown grow to 14 inches long .-

Separate jar/12998 Myriapoda: Scolopendromorpha

Scolopendra galapagoensis Bollman

Remarks: it is interesting to note that this specimen was collected more than 50 years prior to the description of the species by Bollman in 1889; the holotype locality is Chatham Island (United States National Museum number 594).

1835 Otahiti

332 Fresh water. Prawns

Separate jar/12442 Decapoda: Palaemonidae

Macrobrachium sp. 1333 Fresh water shrimp & one marine.

1/9890

Decapoda: ?Palaemonidae

Remarks: specimen damaged, the number appears to be incomplete (e.g. "13. .") and could refer to either Tahiti or New Zealand.

December Bay of Isds.—New Zealand

1346 Crabs-tidal rocks

Dry 47/14584

Petrolisthes elongatus (H. Milne Edwards)

Remarks: labelled "P. violacea Darwin 1346".

Dry 45/14583 Decapoda: Xanthidae

Decapoda: Xanthidae Daira perlata Herbst

Remarks: unnumbered and has two labels, one inscribed by Darwin "New Zealand" and the other "Mr C. Darwin" by ?Bel! "t is doubtful whether this specimen is from New Zealand.

Dry 41/14585

Decapoda: Grapsidae Paragrapsus gaimardii (H. Milne Edwards) Remarks: not numbered (see below).

Dry 91/14586

Pycnogonida

Remarks: this and the previous specimen are unnumbered but both bear labels

inscribed by Darwin "Hobart Town". There are no crustaceans recorded from this locality in the "Catalogue".

April Keeling Islands

1403 Crabs: the Decanod is nearly white runs like lightning, with erected eyes on the white sand beaches: Hermit crab, coloured bright scarlet frequent a particular univalve. & swarms on the coast & in all parts of the dry land far from water: Another Hermit Crab is likewise found inland fits front legs form a most perfect

operculum to its shell .-] Remarks: there is no hermit crab in the collection from Keeling, which is to be

regretted in view of the above observations and comments in the "Personal Diarv" for April 2nd (Barlow, 1933; see also Darwin, 1839: 544).

Dry 40/14587 Decapoda: Ocypodidae

Uca (Planuca) sp. Remarks: unnumbered female but labelled "Keeling Isd" by Darwin.

Dry 38/14588

Decapoda: Xanthidae 2 Actaea sp.

Remarks: unnumbered but labelled "Keeling Isd" by Darwin.

Dry 35/14589 Decanoda: Ocynodidae

Austruca lactea (de Haan)

Remarks: unnumbered but may be from Keeling or Tahiti. 8/12999

Decapoda: Ocypodidae

Ocvpode ceratophthalma (Pallas)

1836 April. Keeling Isds.

1418 Various crabs, beneath stones,

5/13001

Decapoda: Portunidae Thalamita admete (Herbst)

8/13000 Decanoda: Alpheidae

Synalpheus sp.

5/13003 Decapoda: Caridea

Remarks: condition very poor. 5/13004

Amphipoda and ?Caridea

Remarks: condition very poor. 5/13002

Decapoda: Porcellanidae Petrolisthes ? nobilii Haig

1428 Crab. V.362

Remarks: unfortunately this famous species Birgus latro (Linnaeus) appears not to be represented in the Oxford Beagle collections, but we feel its importance merits its inclusion in the present list. An account of this species is given in the "Personal Diagray" (Barlow, 1933) and in Darwin (1839).

1835 May, Mauritius .-

1450 Croh

Dry 98/14590

Decapoda: Xanthidae

Zozymus gengeus (Linnaeus)
Remarks: bearing a brown paper label inscribed "1450 Spirits" in Covington's

hand.

June Cape of Good Hope.

1460 Fresh Water Crust. Amphipoda. 3/11974

Amphipoda: Gammaridae ?Melita sp.

Decemb 1836

Remarks: the following entries are all in pencil and, according to the date, must have been made after the Beagle reached England (see Herbert, 1974: 239).

1477 (91) Crust. St Jago

5/13006

Stomatopoda: Gonodactylidae 2Gonodactylus sp.

Remarks: condition poor.

5/13005

Decapoda: Xanthidae

Remarks: condition poor.

1489 number lost, Crust, Falkland Islds,?? [East S. America inserted].

Arachnid jar/9862 Pycnogonida: Pycnogonidae

?Pycnogonum sp.

1498 Crab. Keeling Isd (?)

5/13007 Decapoda: Coenobitidae

Coenobita rugosa H. Milne Edwards

1499 (1155), Crab.-Chiloc.-

Dry 76-7/14491-2 Decapoda: Galatheidae

Munida subrugosa (White)

Manual and allow (44 III)

Remarks: these specimens are labelled "M. Darwini! Chile? Darwini" and on the reverse side "lab"?. Bell (1847: 106) referred to "in ene species obtained by Mr Darwin and through his kindness, is in my possession" and, on page 207 of the same publication, to the "existence of a new and elegant" species which I find among the fine collection of Crustacea procured by my friend Mr. Darwini". 150 Crust Brackruff, Mauritius Dr. Pare.

Dry 11—13/14593—5

Decapoda: Xanthidae

Leptodius sanguineus (H. Milne Edwards)
Remarks: associated with the label inscribed "Chl: Darwin 1500". The species was
originally referred to the genus Chirorodius. Dr Page has not been identified.

1502 Crust. Brachyuri. Mauritius Dr Page Dry 25/14596

Decapoda: Grapsidae

Sarmatium sp.
1503 Crust. Brachyuri. Mauritius Dr Page

Dry 14/14597

Decapoda: Majidae

?Microphrys sp.

Remarks: listed as "probably Mithrax" in Bell's MS catalogue.

1504 Crust. Brachyuri. Mauritius Dr Page

Dry 36/14598

Decapoda: Ocypodidae

Uca (Thalassuca) ?vocans (Linnaeus)

Remarks: labelled "G. vocans Darwin 1504" and is listed in Bell's MS catalogue as "Gelasimus vocans".

Dry 37/14599

Decapoda: Ocypodidae

Austruca lactea annulipes (A. Milne Edwards) Remarks: unnumbered but next to Dry 36.

Dry 33/4/14600-1

Decapoda: Hymenosomatidae

Halicarcinus planatus (Fabricius)
Remarks: labelled "H. Darwinii (n.s.) Falkland Is, Darwin 1504". This is an error

since the number refers to Mauritius.

2/11927

Decapoda: various families as listed below

Liomera rugata (H. Milne Edwards) Trapezia ferruginea Latreille

Chlorodiella niger (Forsskål)

Atergatopsis ? signata (Adams & White)

Goneplacidae Carcinonlax sp.

Galathea sp.

1507 Hermit Crobs [Mauritinal

Maiidae and Xanthidae undetermined

Dev 17-20/14602-5 Decapoda: Xanthidae

Tranczia dipitalis I streille Separate jar/12443

Remarks: labelled "Tr. Darwin 1507"

Coenahita rugasa H. Milne Edwards

1544 Dry 8/14606

Decanoda: Xanthidae

Remarks: labelled "Xantho laevis n.s. Darwin 1544"

Separate jar/12441

Decapoda: Palaemonidae

Macrobrackium sp.

Remarks: these last two mentioned entries must have received numbers subsequent to the return of the Regule but were not entered in the "Catalogue": the last number recorded in this is 1529.

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REFERENCE

- ABELE, L. G., 1972 The status of Sesarma orgustipes Dana, 1952. S. trapection Dana, 1852 and S. mirroll Rathbun, 1871 (Crustacea: Decapoda: Grapsidae) in the western Atlantic. Caribbean Journal of Salessa 12, 165, 170.
- of Science 12: 165-170.

 BARLOW, N. (Ed.), 1933 Charles Darwin's Diary of the Voyage of H.M.S. Bengle. Cambridge:
 Cambridge University Press.
- BARLOW N. (Ed.), 1945 Charles Darwin and the Voyage of the Beagle. London: Pilot Press.
 BARLOW N. (Ed.), 1965 Darwin's Ornithological Notes. Bulletin of the British Museum (Natural
- BARLOW N. (Ed.), 1965 Darwin's Ornithological Notes. Bulletin of the British Museum (Natural History). Historical Series 2: 201–278.
 BARNARD, K. H., 1960 Descriptive catalogue of South African decanod Crustaera. Annals of the South
- BALL. T., 1842-43 Rentiles. In Darwin. C. The Zoology of the square of H.M.S. Bearle, under the
- BELL, T., 1842-43 Repriles. In Darwin, C. The Zoology of the voyage of H.M.S. Beagle, under the command of Caps. Fitteroy, R.N. during the years 1832 to 1836 . . . Pt. V. i-vi, 51 pp. Lendon: Smith, Elder & Co.
- BELL, T., 1847 A History of British Crustaces Pt. V: 193-240. London: John van Voorst.

 BOLLMAN, C. H., 1889 Myrianodo, In Scientific results of employations by the U.S. Fish Comm.
- BOLLMAN, C. H., 1889 Myriapooa. In Scientific results of exportations by the U.S. Fish Commission Steamer Albatross. Proceedings of the United States National Massacen 12: 211–216.
 BOTT. R. 1989 Die Susswasserkrabben Sud-Amerikas und Ihre Statenescouplichte. Abbooschusson herte
- von der Senckenbergischen Netterforschenden Gesellschaft 518: 1-94.

 BOTT: R., 1973 Die verwandischaftlichen Beziehunern der Uzu-Arten. Senckenbergisten Miologio 54:
- BOUSIFIELD, E. L., 1982 The amphipod superfamily Talkrodea in the Northeastern Pacific region. I. Family Talkridae: Systematics and distributional coology. Publications in Biological Occarography. No. 11. National Museum of Canada. Octawa issi: 31.
- No. 11. National Museum of Canada, Ottawa 1-viz. 73 pp. BURKHARDT, F. & SMITH, S., (Eds) 1985. The Correspondence of Charles Darwin. 1821–1836. Volume 1. Cambridge: Cambridge University Press.
- CAMPBELL, B. M. & GRIFFIN, D. J. G., 1966 The Australian Sesaminae (Crustacea: Brachyura):

 Genera Helior, Heliographus, pov., Coolographus, and Programmus, Memoirs of the Oursessiand Museum
- 14: 127-174.
 CHACE, F. A., 1956 Porcellanid Crabs: In: Résultats Scientifiques. Expédition Oceanographique Belge davu les Euser Cérières Africaines de l'Aslamiques Stud (1948-1949). Bruxelles III 5: 1-54.
- CHACE, F. A., 1968 A new crab of the genus Cycloss (Crustacea: Brachyura; Calappidae) from St. Helena, South Atlantic Ocean. Proceedings of the Biological Society of Weshington 81: 605-612.
- CRANE, J., 1975 Fiddler crabs of the world (Ocypodidae: Genus Uca). Princeton: Princeton University
 Press
- DARWIN, C., 1839 Journal of Researches into the Geology and Netural History of the various countries visited by H.M.S. Beagle etc. London: Henry Colburn.
 DAVES K. C. & HILL I. 1915 The Producted Collections of the Oxford University Museum Oxford:
- Oxford University Press.

 DIMAURO, A. A. Jr., 1982 Rediscovery of Professor Thomas Bell's type Crustacea (Brachyura) in the dry crustacean collection of the Zoological Collections, University Museum, Oxford. Zoological Journal
- of the Linnean Society of London 76: 155-182.

 FIZE A. & SERENE, R. 1955 Les Pagures du Vietnam. Notes. Institut Oceanographique Nhorrang, 45:
- 1-228.

 FORBST, A. & SAINT LAURENT, M. de., 1967 Crustacés Decapodes: Pagurides. In: Resultants Scientifique des Campagnes de la "Calypso" au large des côtes Atlantiques de l'Amerique du Sud
- (1961–1962) VIII 6. Annaies de l'Institut Oceanographique 45: 47–170.
 GARTH, J. S., 1946 Littoral brachyuran fauna of the Galapagos Archipelago. Allan Hancock Pacific
- Expeditions 5 (10): 341-601.

 GARTH, J. S., 1988 Beachvara of the Pacific Coast of America, Oxyrhyncha, Allan Hancock Pacific
- Expeditions 21 (1):1–499.

 GUNTHER, R. T., 1904 A History of the Daubery Laboratory Magdalen College Oxford. London:

- GUNTHER, R. T., 1925 Early Science in Oxford. Vol. III. Oxford: Oxford University Press.
- HAIG, J., 1955 Reports of the Lund University Chile Expedition 1948-1949. 20. The Crustacea Ans
- of Chile. Actar Universitatis Landerais 51 (12):1-65.

 HAIG, J., 1960 The Porcellanidae (Crustacea, Anomura) of the Eastern Pacific. Allan Hancock Pucific Extenditional 24: 1-40.
- HAJG, J., 1964 Porcellatid Crabs from the Indo-West Pacific, Part 1. in: Papers from Dr. Th. Moriemen's Pacific Expedition 1914-1916. 81. Videnskabelige Meddetolser fra Dansk Naturshistorisk Forening / Kishbenhava 126: 315-368.
- HERBERT, S., 1974 The place of Man in the development of Darwin's theory of transmutation, Part I. To July 1877. Journal of the History of Biology 7:217-238.
- HOLTHUIS, L. B., 1952 Reports of the Lund University Chile Expedition 1948-1949. 5. The Crustacea Decapoda Macrara of Chile. Acta Universitalis Lundensis 47 (10): 1-110.
- HOLTHUIS, L. B., 1954 On a collection of decaped Crustacea from the Republic of El Salvador (Central America). Zoologische Verhandelingen. 23: 1-43.
- JENYNS, L., 1840-1842 Fish. In Durwin, C. The Zoology of the voyage of H.M.S. Beagle, under the command of Capt. Filtroy, R.N. during the years 1812 to 1816... Pt. IV. i-xv, 172 pp. London: Smith Elder & Co.
- LUCAS, J. S., 1980 Spider Crabs of the family Hymenosomatidae (Crastaces; Brachyura) with particular reference to Australian species: Systematics and Biology. Records of the Australian Museum 33: 148-247.
- MANNING, R. B., 1969 Stomatopod Crustacea of the Western Atlantic. Studies in Tropical Geomography 8: 1–380.
- MANNENG, R. B., 1971 Eastern Pacific Expeditions of the New York Zoological Society. Stomatopod Crustaces. Zoologice 56: 15-113.
- MANNING, R. B. & HOLTHUIS, L. B., 1981 West African Brachyuran Crabs. Smithsonian Contributions to Zoology 306: i-xii, 1-379.
- MENZIES, R. J., 1961 Reports of the Land University Chile Reposition 1984-1989, d.: The mospongraphy, ecology and systematics of the Collean marine loopeds. Acat Orbine-strate Landsonic, 37 (11): 1–15.
 NAME, W. C. van, 1985 The American land and freshwater isopod Crustacea. Bulletin of the American Macanum of Namonal History. 13: 1–35.
- PORTER, D. M., 1985 The Beugle collector and his collections. In: Kohn, D. S. (Ed.), The Derwinian Herlinger A Centensial Retrospect: Princeton University Press: Wellington, New Zusland, Nova Pacifica, POULTON, E. B., 1909 Charle Derwint and the Origin of Species. Lendons: Longmans, Green & Co.
- PRETZMANN, G., 1972 Die Pseudothelphusidae (Crustacea, Brachyura). Zoologicu 42: 1–180. RATHBUN, M. J., 1911 The stalk-cytd Crustacea of Peru and the adjacent coast. Proceedings of the United States National Maximum 38: 531–620.
- RATHBUN, M. J., 1918 The grapsoid crabs of America. Bulletin of the United States National Museum 97: 1-pxii, 1-461.
- RATHBUN, M. J., 1925 The spider crabs of America. Bulletin of the United States National Museum 12b: 1-xx, 1-598.
 RATHBUN, M. J., 1930 The cancroid crabs of America. Bulletin of the United States National Museum
- RATHELIN, M. J., 1950 The cancroad crabs of Afferica. Basietin of the United States National Misseum 152: i-xvi, 1-609.
- RATHBUN, M. J., 1937 The oxystomatous and allied crabs of America. Bulletin of the United States National Manuer 1860: i-vi. 1-278.
- SAKAI, T., 1976 Crabs of Japan and the Adjacent Seas. Tokyo: Kodansha Ltd. SCHMITT, W. L., 1942 The species of Acela, endemic South American fresh water cru
- Proceedings of the United States National Museum 91: 431-520.

 SMITH, K. V. G., (ed.) 1967 Darwin's Insects, Charles Darwin's entemological notes. Bulletin of the
- British Museum (Natural History). Historical series 14: 1-141.

 STEBBING, T. R. R., 1914 Crustaceans from the Falkland Islands collected by Mr Rupert Vallentine
- F.L.S. Part II. Proceedings of the Linnean Society of London (1914): 341–378.
 STEPHERSSON, W. & HUDSON, J. J., 1957 The Australian Pertunida (Crustacea: Portunidae).
 Australian Journal of Marine & Preshware Research 8: 312–368.

Index of identifications

Actaea sp.	1403	comptus, Pagurus	510, 603,
admete, Thalamita	1418		917
aenaeus, Zozymus	1450	Conchostraca (undet.)	1005
albatrossis, Acanthocyclus	864	Copepoda (undet.)	1005, 1093
Alpheidae (undet.)	1259	coryphe, Mithrax	145
altimanus, Cyrtograpsus	414	crenulatus, Hemigrapsus	1180, 1209
Amphipoda (undet.)	1418	cristatus pagei,	
Amphinomidae	822	Dilocarcinus	737
Ampithoe sp.	980	9 8 9 9	
analoga, Emerita	1109	darwini, Pimelometopon	1270
angulatus, Cyrtograpsus	436	Decapoda (larvae)	850
angulosus, Allopetrolisthes	1114, 1256	depressa, Plagusia	326
angustipes, Sesarma	144	desmarestii, Petrolisthes	1195
annulipes lactea, Austruca	1504	Dexaminidae (undet.)	1098
antillensis, Dromidea	172	Diastylis sp.	801
Aoridae	448	digitalis, Trapezia	1507
Araneae (undet.)	1093, 1101	Dryopoides sp.	507
armata, Pterygosquilla	1000	Dynamenella sp.	507
bairdii, Cycloes	59	eatoni, Dynamenella	841, 868,
Bopyrus sp.	351		980
Boyallia sp.	810	Edotea sp.	800
Branchiopoda (undet.)	1005	edwardsi, Pagurus	1103
brasilianus, Percophis	347	edwardsii, Petrolisthes	1180
Bresilia sp.	993, 1259	elongatus, Petrolisthes	1346
brevipes, Ampithoe	603	emarginata, Cassidinopsis	507, 556
breripes, Ampainoe	000	Ethusa sp.	172
Calanoida (undet.)	850, 1104	Exosphaeroma sp.	800
calcarea, Isociadus	589, 622,		1504
	851	ferruginea, Trapezia	
Caprella sp.	753	fuegiensis, Lembos	841, 868,
Caprellidae	448, 810		917
Carcinoplax sp.	1504	galmardii, Paragrapsus	1346
Caridea (undet.)	603, 851,	galapagoensis, Scolopendra	1298
	999, 1005,	Galathea sp.	1504
	1418	Gammaridea (undet.)	103, 491,
ceratophthalmus, Ocvpode	1403	Cummanaca (unact.)	507, 611,
cessacii, Petrolisthes	12		801, 842,
chilensis, Excirolana	1109		851, 1005,
chillensis, Henatus	1250		1110, 1114
chiliensis, Transorchestia	868	gaudichaudii.	1110, 1114
Chilognatha (undet.)	617, 667,	Gaudichaudia	997
Cimogination (utiluet.)	1093	Geophilomorpha (undet.)	1058
Chilopoda (undet.)	993	gieas, Exosphaeroma	551
Cirolana sp.	802	Gonodactylus sp.	1477
Clibanarius sp.	12	granulosa, Paralomis	814
Citoanarius sp.	12	granulosa, Paralomis	814

230 DARW	IN'S BEAGLE COLLEC	TIONS IN THE OXFORD UNIVERS	ITY MUSEUM
grapsus, Grapsus	1029	panamensis, Clibanarius	1127
gregaria, Munida	839, 1127	Paramphithoidae (undet.)	556
Latter Port of		Parathemisto sp.	834, 839,
helleri, Epixanthus	12		841
Herbstia sp.	12	perlata, Daira	1346
Hirudinea (undet.)	1093	perlatus, Pagurus	1166
Hyperiidae (undet.)	841	perlatus, Pilumnoides	p. 220
Idotea sp.	40	Petrolisthes sp.	351, 1262
Idoteidae (undet.)	448	planatus, Halicarcinus	786, 851,
Isocladus sp.	786		867, 917,
rootiuuis sp.	700		1114, 1504
Kuria sp.	507	plebejus, Cancer	1078, 1152
lactea, Austruca	1403		1247
laevigata, Pinnothere		Polydesmidea	475
laevigata, Pinnotnere lanceolata, Exosphae		polyodon, Cancer	1030
umcemuia, Exosphae		Pontogeneia sp.	589
latreillei, Eurypodius	603, 1103	Pseudothelphusa sp.	1223
tatrettiet, Eurypoatus		punctatus Ovalipes	222, 1249
Lance Bri	903	Pycnogonida (undet.)	786, 1346
latro, Birgus	1428	Pycnogonum sp.	851, 1489
lessoni, Pseudosquill	opsis 1203	regis, Bovallia	560, 917,
Macrobrachium sp.	1332, 1616	regis, Dovania	980
magellanica, Edotea	1028	rugata, Liomera	1504
magellanica, Nautica	ris 860, 1103	rugosa, Coenobita	1498, 1507
Majidae (undet.)	1504	ragosa, comona	
Megamphopus sp.	448	sanguineus, Leptodius	1500
Melita sp.	1103, 1460	Sarmatium sp.	1502
metallica, Idotea	448	Scolopendromorpha	617, 622,
Micropanope sp.	1477	(undet.)	993, 1093,
Microphrys sp.	1256, 1503		1212, 1214
Mithrax sp.	867	Scorpiones (undet.)	1214
Munida sp.	850	signata, Atergatopsis	1504
Mysida (undet.)	491, 834,	Siphonostoma (undet.)	1270
, (umati)	1005, 1109	spinifrons, Synalpheus	1124
Mysidacea (undet.)	850	spinulosum, Peltarion	601
		Spirostreptidae (undet.)	206, 1058,
Nereidae	1005		1214
niger, Chlorodiella	1504	Stomatopoda (pseudozoea)	850
nobilii, Petrolisthes	1418	studeri, Exosphaeroma	560, 980
nodosus, Mithrax	407	subrugosa, Munida	551, 820,
Nymphon sp.	842		1499
Oligochaeta (undet.)	1101	Synalpheus sp.	1418
ovata, Micropisa	12	talcahuano laevis, Aegla	1057
orana, marroposa		Talorchestia sp.	1164
pacifica, Pelia	1114	Tanaidacea (undet.)	589
Palaemon sp.	867	Thoracica (undet.)	1127

DARWIN'S BEAGLE COLLECT	TIONS IN THE O	XFORD UNIVERSITY MUSEUM	231
truncatus, Betaeus tuberculatus, Petrolisthes typa, Amphoroidea	999 1084 507, 1114	Vaginula sp. Valvifera (undet.) vocans, Uca	1180 145 1504
Uca sp. urostylis. Cirolana	1403	Xanthidae (undet.)	145, 1504