

A SELECTED BIBLIOGRAPHY OF THE MARINE FAUNA AND FLORA OF THE AZORES

HELEN ROST MARTINS

ARQUIPÉLAGO



MARTINS, HELEN ROST 1990. A selected bibliography of the marine fauna and flora of the Azores. - *Arquipélago*. Life and Earth Sciences 8:35-44. Angra do Heroísmo. ISSN 0870-6581.

A list of 144 references to the marine fauna and flora within 200 miles of the Azores, has been compiled. Papers concerning marine mammals, turtles, birds, and large pelagic fish are not included. Most of the papers included refer directly to the Azores in their titles but some others mentioning Azorean material only in their text, are also listed. Unpublished reports are included if they contribute useful information. In addition to the references listed, one can find records from the Azores in many expedition reports. Examples are those of the H.M.S. 'Challenger' expedition and many of the reports of the oceanographic expeditions of H.R.H. Prince Albert I of Monaco. Of the Monaco reports, only those solely dealing with Azorean waters are included.

MARTINS, HELEN ROST 1990. Bibliografia seleccionada da fauna e flora marinha dos Açores. - *Arquipélago*. Ciências da Natureza 8:35-44. Angra do Heroísmo. ISSN 0870-6581.

Compilou-se uma lista de 144 referências bibliográficas referentes à fauna e flora marinha da ZEE dos Açores. Omitaram-se os trabalhos relativos a mamíferos marinhos, tartarugas, aves e grandes peixes pelágicos. A maior parte dos trabalhos referem explicitamente os Açores nos seus títulos, mas incluíram-se também outras publicações em cujo texto se alude a material biológico proveniente dos Açores. De relatórios não publicados, só se incluem os que contêm informações consideradas válidas neste contexto. Além dos trabalhos citados, encontram-se numerosas referências aos Açores em relatórios de cruzeiros científicos. São disso exemplos, relatórios da expedição do navio H.M.S. 'Challenger' e grande parte dos relatórios das expedições oceanográficas do Príncipe Alberto I de Mônaco. Destes só se incluíram os que tratam especificamente do mar dos Açores.

Helen Rost Martins, Department of Oceanography and Fisheries, University of the Azores, P-9900 Horta, Azores, Portugal.

INTRODUCTION

Anyone who has worked on marine life in the Azores will have found it very difficult to find references to literature on the local fauna and flora. Many of the publications are old, scattered and often difficult to locate. After many years of complaints, mainly from colleagues abroad, I felt obliged to publish this bibliography which I have been compiling over the last 12 years. An extra stimulus was the need for a reference list to support 'Expedition 89 - Ecology and taxonomy of the marine littoral of the

Azores' organized jointly by the Department of Oceanography and Fisheries, University of the Azores, Horta and the Port Erin Marine Laboratory, Isle of Man, University of Liverpool, U.K., during June and July 1989. I have been selective in compiling this list. References on marine mammals, turtles, birds, and large pelagic fish are not included. Excluded are also papers dealing directly with fisheries. Most of the papers refer to the Azores in the title but others which are known to mention material from the islands are also listed. Not included are the reports of the many expeditions which took place at the end of the 19th and the beginning of

Contribution No. 1 from 'Expedition Azores 1989'

the 20th centuries. For instance, one can find material from Azorean waters described in the extensive 'Challenger' reports and many of the 110 volumes of 'Résultats des Campagnes Scientifiques accomplies sur son yacht par Albert I^{er} Prince Souverain de Monaco'. Of these I have listed only those with the Azores mentioned in the title.

The names of the authors have been written as in the original publications when these have been available for consultation.

Most of the references, especially the older ones, have been compiled over several years. In addition, the following databases have recently been consulted: Institute of Oceanographic Sciences Deacon Laboratory library database (1985-1989), Oceanic Abstracts (1964-1988), Aquatic Science & Fisheries Abstracts (1982-1988), BIOSIS (1969-1989), Zoological record (1978-present). Search strategy: Azores.

LIST OF PUBLICATIONS

The bold letters printed after each reference, indicate subject areas: An-Annelida, Al-Algae, Br-Bryozoa, Cn-Cnidaria, Cr-Crustacea, Ec-Echinodermata, El-Ecology, Ge-General, Mo-Mollusca, Pi-Pisces, Pl-Plankton, Po-Porifera, Py-Pycnogonida, Si-Sipunculida, Tu-Tunicata.

- ARTSEN, J. J. VAN 1977. Revision of the east Atlantic and Mediterranean Caecidae. *Basteria* 41: 7-19. **Mo**
- ARTSEN, J. J. VAN and M. C. FEHR-DE WAL 1975. A critical examination of *Caecum clarkii*. - *Basteria* 39: 81-86. **Mo**
- AFONSO, ODETTE 1976. Amphipoda des Açores cueillis par scaphandrier autonome (avec la description d'une nouvelle espèce). - *Publicações do Instituto de Zoologia "Dr. Augusto Nobre"* Faculdade de Ciências do Porto 30: 1-38 **Cr**
- AFONSO, ODETTE 1977. Contribution à l'étude des Amphipodes des Açores- description d'une nouvelle espèce.- *Publicações Instituto de Zoologia "Dr. Augusto Nobre"* Faculdade de Ciências do Porto 135: 1-32. **Cr**
- AGARDH, J. 1870. Om de under Korvetten Josephines expedition, sistlidn sommer, insamlede Algerne. - *Öfversigt af Kungliga Vetenskapsakademiens Förhandlingar* 27: 359-366. **Al**
- AGUIAR, A. and J. G. PEREIRA 1982. *Physiculus dalwigki* Kaup, 1858 and *Gadella maraldi* (Risso, 1810) newly recorded in Azorean waters (Pisces: Moridae). - *Cybium*. Série 3, 6 (3): 35-38 **Pi**
- ALMAÇA, C. 1987. Egg number and size in *Pachygrapsus mauris* (Lucas, 1846) from Praia da Laginha (Faial, Azores Islands). - *Investigacion Pesquera* 51 (Suppl.1): 157-163. **Cr**
- ALMEIDA, ARMANDO J. 1982. Sur la presence de *Blennius ruber* Valenciennes, 1836 aux Açores (Pisces, Blenniidae). - *Cybium*. 3^e série, 6 (2): 35-40. **Pi**
- ALMEIDA, ARMANDO J. 1985. Clef pour la détermination des Blenniidae et Tripterygiidae marins du Portugal continental, Açores et Madère. - *Bocagiana* 87: 1-9. **Pi**
- ALMEIDA, ARMANDO & MIREILLE HARMELIN - VIVIEN 1983. Quelques notes sur des Blenniidés observés et capturés aux Açores en 1979 (Pisces: Blenniidae). - *Cybium*. 3^e série, 7 (1): 39-45. **Pi**
- ANON. 1967. *Chelsea College Azores Expedition* July-October 1965. Final Report. 86 pp. **Ge**
- ANON. 1972. *Azores expedition*. Final Report. University of London Sub Aqua Club. Exul Sub Aqua Club. Joint Project 1972. 78 pp. **Pi**
- ARDRE, F., C. - F. BOUDOURESQUE et J. CABIOCH 1974. Remarkable presence of *Symphocladia marchantioides* (Cerami-ales: Rhodomelacea) in the Azores. - *Bulletin Société Phycologie de France* 19: 178-182. **Al**
- ARNAUD, P. M. and H. ZIBROWIUS 1974. Egg capsules of the turrid gastropods and

- skeletal corrosion of deep sea Scleractinia from the Azores. - *Revista Faculdade de Ciências* (Universidade de Lisboa). 2ª Série. C. Ciências Naturais 17 (2): 581-598. **Mo**
- ARRUDA, LUÍS M. 1977. Morphological comparisons between the Mediterranean and northeastern Atlantic populations of *Chromis chromis* L. (Pisces: Pomacentridae). - *Arquivos do Museu Bocage*. 2ª Série, 6 (11): 207-217. **Pi**
- ARRUDA, LUÍS M. 1979. On the study of a sample of fish captured in the tidal range at Azores. - *Boletim da Sociedade Portuguesa de Ciências Naturais* 19: 5-36. **Pi**
- ARRUDA, LUÍS M. 1980. On the subspecific distinction between *limbatus* and *chromis* populations of *Chromis chromis* (Pisces: Pomacentridae). - *Arquivos do Museu Bocage*. 2ª Série, 7 (20): 349-362. **Pi**
- ARRUDA, LUÍS M. 1980. On the adjustment of the Motomura's model to populations of the intertidal fish on the Portuguese and Azorean coasts. - *Arquivos do Museu Bocage*. 2ª Série, 7 (19): 339-348. **Pi**
- ARRUDA, LUÍS M. and LEONEL SERRANO GORDO 1984. On the study of a sample of gastropods (Prosobranchia) from the intertidal range of Azores. - *Arquipélago*. Série Ciências da Natureza, 5: 117-209. **Mo**
- BAKER, I. H. 1967. Coelenterates. Pp. 39-46 in: ANON. *Chelsea College Azores Expedition July-October*. Final Report 1965. **Cn**
- BAKER, I. H. 1967 Cirripedia. Pp. 46-47 in: ANON. *Chelsea College Azores Expedition July-October*. Final Report 1965. **Cr**
- BARROIS, T. H. 1888. *Catalogue des Crustacés Marins, recueillis aux Açores*. Lille, 1888. 110 pp. **Cr**
- BATH, HANS 1982. Beitrag zur Revalidation vom *Parablennius ruber* (VALENCIENNES 1836) mit kritischen Bemerkungen zur Gültigkeit der Gattung *Pictiblennius* WHITLEY 1930. - *Senckenbergiana Biologica* 62 (4/6): 211-224. **Pi**
- BELLAN, G. 1978. A small collection of polychaet annelids collected on the island of São Miguel, Archipelago of the Azores, Portugal. - *Boletim de Sociedade Portuguesa de Ciências Naturais* 18 (2): 57-68. **An**
- BOURY-ESNAULT, NICOLE et MARIA TERESA LOPES 1985. Les démosponges littorales de l'archipel des Açores. - *Annales de l'Institut Oceanographique*. Nouvelle Série. Ext. ait. 61 (2): 149-225. **Po**
- BURNAY, L. P. e A. FRIAS MARTINS 1988. Acerca da presença de *Mitra nata* MARRIAT, 1818 (Gastropoda: Mitridae) na costa do Algarve e Arquipélago dos Açores. - *Publicações da Sociedade Portuguesa de Malacologia* 10: 23-26. **Mo**
- CASTRO, MARIA LUÍSA F. e MARIA DO CÉU VIEGAS 1983. Estudo dos povoamentos de algas fotófilas da ilha de S. Miguel (Açores). 1-Resultados preliminares sobre a Fácies de *Corallina elongata* ELLIS & SOLANDER. - *Arquipélago*. Série Ciências da Natureza, 4: 7-30. **El**
- CHAPMAN, G. 1954. Aspects of the fauna and flora of the Azores I. Introduction and notes on the littoral conditions. - *Annals and Magazine of Natural History*. Series 12, 8: 673-677. **Ge**
- CHAPMAN, G. 1954. Aspects of the fauna and flora of the Azores II. Polychaeta. - *Annals and Magazine of Natural History*. Series 12, 7: 678-683. **An**
- CHAPMAN, G. 1955. Aspects of the fauna and flora of the Azores. III. Gephyrea. - *Annals and Magazine of Natural History*. Series 12, 8: 351-352. **Si**
- CHAPMAN, G. 1955. Aspects of the fauna and flora of the Azores. IV. Echinodermata. - *Annals and Magazine of Natural History*. Series 12, 8: 398-400. **Ec**
- CHAPMAN, G. 1955. Aspects of the Fauna and Flora of the Azores. VI. The density of animal life in the coralline alga zone. -

- Annals and Magazine of Natural History*. Series 12, 8: 801-805. **El**
- CHAPMAN, G. and J. E. SANTLER 1955. Aspects of the Fauna and Flora of the Azores. V. Crustacea. - *Annals and Magazine of Natural History*. Series 12, 8: 371-376. **Cr**
- CHERBONNIER, GUSTAVE et ALAIN GUILÉ 1972. Sur une espèce actuelle de crinoïde crétacique de la famille Holopodidae: *Cyathidium foresti* nov. sp. - *Compte Rendu Hebdomadaire des Séances de l'Académie des Sciences*. Paris. Série D: Sciences Naturelles, 274 (15): 2193-2196. **Ec**
- CHEVREUX, ED. 1888. Troisième campagne de "l'Hirondelle", 1887. Sur quelques crustacés amphipodes du littoral des Açores. - *Bulletin Société Zoologique de France* 13: 31-35. **Cr**
- COLLETT, R. 1897. Om en samling fiske fra Azorerne, tilhørende Museet i Ponta Delgada. - *Archiv for Mathematik og Naturvidenskab* 19 (7): 1-17. **Pi**
- COLLETT, R. 1905. On some fishes from the sea off the Azores. - *Zoologischer Anzeiger* 28 (21/22): 723-730. **Pi**
- COLLINS, BERNARD L. 1954. Lista de peixes dos mares dos Açores. - *Açoreana* 2 (5): 1-40. **Pi**
- CORNELIUS, P. F. S. 1975. A revision of the species of Lafoeidae and Haleciidae (Coelenterata: Hydroïda) recorded from Britain and nearby seas. - *Bulletin of the British Museum (Natural History)*. Zoology Series, 28: 373-426 [p.406 only]. **Cr**
- DAUTZENBERG, P. 1889. Contribution à la faune malacologique des Îles Açores. - *Résultats des Campagnes Scientifiques, accomplies sur son yacht par Albert 1^{er} Prince souverain de Monaco* 1: 1-120. **Mo**
- D'HONDT, J.- L. 1977. *Dendrobeatia* (*Himantozoum*) *chetthami* n. sp. (Bryozoa, Cheilostomata). Considerations sur les Himantozoum. - *Cahiers de Biologie Mari-*
- ne* 18 (2): 155-161. **Br**
- DOLLFUS, ADR. 1888. Troisième campagne de "l'Hirondelle", 1887. Sur quelques crustacés isopodes du littoral des Açores. - *Bulletin Société Zoologique de France* 13: 35-36. **Cr**
- DOLLFUS, ADR. 1897. Note préliminaire sur les Tanaidae récoltes aux Açores pendant les campagnes "l'Hirondelle" (1887-1888). - *Bulletin Société Zoologique de France* 22: 207-215. **Cr**
- DROUËT, HENRI 1858. Rapport a sa Majesté le Roi de Portugal sur un voyage d'exploration scientifique aux îles Açores. - *Mémoires de la Société Académique de l'Aube* 22: 33 pp. (Extrait) **Ge**
- DROUËT, HENRI 1858. Mollusques marins des Îles Açores. - *Mémoires de la Société Académique de l'Aube* 22: 53 pp. (Extrait) **Mo**
- DROUËT, HENRI 1859. Lettres conchyliologiques. - *Revue et Magasin de Zoologie Pure et Appliquée*. 2^e série, 11: 229-235. **Mo**
- DROUËT, HENRI 1861. Rapport a S. M. le Roi de Portugal sur un voyage d'exploration scientifique aux îles Açores. - *Annales de la Société Linnéenne de Maine et Loire* 4: 81-98. (Same as above). **Ge**
- DROUËT, HENRI 1861. Éléments de la Faune Açoréenne. *Mémoires de la Société Académique de l'Aube* 25: 245 pp. (Extrait) **Ge**
- DROUËT, HENRI 1866. Catalogue de la Flore des Îles Açores precede de L'Itineraire d'un voyage dans cet Archipel. - *Mémoires de la Société Académique de l'Aube* 30: 81-233. **Al**
- FELDMANN, J. 1946. La flore marine des Îles Atlantides. - *Mémoires de la Société de Biogéographie* 8: 395-435. **Al**
- FERREIRA, ERNESTO 1937. Escombridas dos Açores. - *Açoreana* 1 (4): 211-221. **Pi**
- FERREIRA, ERNESTO 1938. Ápodos dos Açores. - *Açoreana* 2 (1): 1-14. **Pi**
- FIGUEIRA, ARMANDO J. G. 1959. On a spe-

- cimen of *Stenopus spinosus* Risso from the Azores. - *Bocagiana* 3: 1-6. Cr
- FIGUEIRA, ARMANDO J. G. 1960. On a small collection of decapod crustaceans from the Azores. - *Bocagiana* 6: 1-13. Cr
- FIGUEIRA, ARMANDO J. G. 1964. A new record of *Paromola cuvieri* (Risso) from the Azores (Crustacea Decapoda, Thelxiopeidae). - *Açoreana* 6 (1): 69-71. Cr
- FORBES, E. 1851. On some indication of the molluscous fauna of the Azores and St. Helena. - *Report of the 21st meeting of the British Association for the Advancement of Science*: 76-77. Mo
- FRALICK, RICHARD A., EDWARD J. HEHRE and ARTHUR C. MATHIESON 1985. Observations on the marine algal flora of the Azores I: Notes on the epizoic algae occurring on the marine mollusc *Patella* spp. - *Arquipélago. Série Ciências da Natureza*, 6: 39-43. Al
- FRENZEL P. and M. ALONSO 1988. *Alona azorica* sp. nov., a new chydorid (Cladocera) from the Western Palaearctis (sic). - *Archiv für Hydrobiologie* 112 (3): 449-465. Cr
- GAUDY, R. 1972. On a collection of copepods collected by the Bathyscaphe Archimedes in waters off the Azores. - *Tethys* 4 (4): 947-952. Cr
- GIRARD, ALBERT ALEXANDRE 1892. Les Céphalopodes des îles Açores et de l'île de Madère. - *Journal de Sciencias Mathematicas*. 2ª Série, 7: 210-221. Mo
- GRASHOFF, M. 1981. Gorgonaria und Pennatularia (Cnidaria: Anthozoa) vom mittelatlantischen Rücken SW der Azoren. - *Steenstrupia* 7 (9): 213-230. Cr
- GUERIN-MENEVILLE, M. F. E. 1859. Lettres Conchyliologiques VII.- *Revue et Magasin de Zoologie*: 229-235. Mo
- HARMELIN, J. G. 1976. Data on some Cribri-morph Bryozoa (Cheilostomata) from the eastern Atlantic. - *Tethys* 8 (2): 176-192. Br
- HARMELIN, J. G. 1988. Espèces affines microsympatriques chez *Puellina* (Bryozoa: Cheilostomata) et description d'espèces nouvelles. - *Zoologica Scripta* 17 (1): 25-38. Br
- HARMELIN, J. G. and J. ARISTEGUI 1988. New Cribrilinidae (Bryozoa, Cheilostomata) from the upper bathyal of the Atlantic Mediterranean region. - *Journal of Natural History* 22 (2): 507-535. Br
- HARTOG, J. C. DEN and M. S. S. LAVALEYE 1981. Report on a shore collecting trip to the Azores (12 September-1 November 1979), including a list of collecting stations. - *Bocagiana* 61: 1-15. Ge
- HILGENDORF, F. 1888. Eine neue *Salarias*-Art, welche von Herrn Dr. H. Simroth bei den Açoren entdeckt wurde. - *Sitzungs-Berichte der Gesellschaft Naturforschende Freunde zu Berlin* 5: 79. Pi
- HILGENDORF, F. M. 1888. Die Fische der Azoren.- Pp. 205-213 in: SIMROTH, 1888. Zur Kenntniss der Azorenfauna. - *Archiv für Naturgeschichte* 1 (3): 179-234. Pi
- HOLTHUIS, L. B. 1984. On some Crustacea Stomatopoda collected by the CANCAP Expeditions in the waters of N.W. Africa and the Azores. - *Zoologische Mededelingen* 58 (8): 131-139. Cr
- ISIDRO, E. J. 1987. Age and growth of the bluemouth, *Helicolenus dactylopterus dactylopterus* (De la Roche, 1809) off the Azores. - *International Council for the Exploration of the Sea* CM 1987/G: 63, 16pp. (mimeo). Pi
- ISIDRO, EDUARDO JOSÉ 1988. Contribuição para o estudo da biologia e pesca de Boca Negra, *Helicolenus dactylopterus* (De la Roche, 1809) dos Açores. - *7ª Semana das Pescas. Relatório* 1987: 183-195. Pi
- ISIDRO, HELENA AZEVEDO 1989. A pesca dos pequenos pelágicos nos Açores. - *8ª Semana das Pescas dos Açores, Relatório* 1988: 183-186. Pi

- ISIDRO, HELENA AZEVEDO 1990. Age and growth of *Trachurus picturatus* (Bowdich, 1825) from the Azores. - *Arquipélago. Life and Earth Sciences*, 8: 45-54. Pi
- JOUBIN, L. 1895. Céphalopodes recueillis dans l'estomac d'un cachalot capturé aux Îles Açores. *Compte Rendue Hebdomadaire des Séances de l'Académie des Sciences*. Paris, 121: 1172-1174. Mo
- KRUG, HELENA M. 1989. The Azorean blackspot seabream, *Pagellus bogaraveo* (BRÜNNICH, 1768) (Teleostei: Sparidae): Age and growth. *Cybium* 13 (4): 347-355. Pi
- KRUG, HELENA M. 1990. The Azorean blackspot seabream, *Pagellus bogaraveo* (BRÜNNICH, 1768) (Teleostei: Sparidae): Reproductive cycle, hermaphroditism, maturity and fecundity. - *Cybium* 14. Pi
- KUNZ, HELMUT 1983. Harpacticoiden (Crustacea: Copepoda) aus dem Litoral der Azoren. - *Arquipélago. Série Ciências da Natureza*, 4: 117-209. Cr
- LAND, JACOB VAN DER 1987. Report on the CANCAP-project for marine biological research in the Canarian-Cape Verdean region of the North Atlantic Ocean (1976-1986). Part I. List of stations. - *Zoologische Verhandelingen* 243: 1-94. Ge
- LETACONNOUX, R. 1954. Observations sur la sardine des Açores et nouvelle contribution a l'étude du genre *Sardinia*. *Notes et Rapports. Office Scientifique et Technique des Pêches Maritimes* (Nouvelle Série), 11: 37-56. Pi
- LEVRING, TORE 1974. The marine algae of the Archipelago of Madeira. - *Boletim do Museum Municipal do Funchal* 28 (125): 1-111. Al
- MAPSTONE, G. M. and E. M. WOOD 1975. The ethology of *Abudefduf luridus* and *Chromis chromis* from Azores. - *Journal of Zoology, London* 175 (2): 179-199. Pi
- MARQUES, VASCO MONTEIRO 1983. Peuplements benthiques des Açores. I - Echinodermes. - *Arquivos do Museu Bocage. Série A*, 2 (1): 1-12. Ec
- MARQUES, VASCO MONTEIRO 1984. Effects of *Arbacia lixula* (L.) (Echinoidea) on the algal communities of São Miguel and Graciosa islands (Azores Archipelago, Portugal). - *Arquivos do Museu Bocage. Série B*, 2 (13): 103-108. Ec
- MARTINS, HELEN ROST 1982. Biological studies of the exploited stock of *Loligo forbesi* (Mollusca: Cephalopoda) in the Azores. - *Journal of the Marine Biological Association of the United Kingdom* 62: 799-808. Mo
- MARTINS, HELEN ROST 1985. Biological studies of the exploited stock of the Mediterranean locust lobster *Scyllarides latus* (Latreille, 1803) (Decapoda: Scyllaridae) in the Azores. - *Journal of Crustacean Biology* 5 (2): 294-305. Cr
- MARTINS, HELEN ROST 1985. Some observations on the nauplisoma and phyllosoma larvae of the Mediterranean locust lobster, *Scyllarides latus* (Latreille, 1803), from the Azores. - *International Council for the Exploration of the Sea* CM 1985/K: 52, 13pp. (mimeo). Cr
- MARTINS, HELEN R., MALCOM R. CLARKE, FRANCISCO REINER and RICARDO S. SANTOS 1985. A pygmy sperm whale, *Kogia breviceps* (BLAINVILLE, 1838) (Cetacea: Odontoceti) stranded on Faial Island, Azores, with notes on cephalopod beaks in stomach. - *Arquipélago. Série Ciências da Natureza*, 6: 63-70. Mo
- MARTINS, HELEN R., RICARDO S. SANTOS and STEPHEN J. HAWKINS 1987. Exploitation of limpets (*Patella* spp.) in the Azores with a preliminary analysis of the stocks. - *International Council for the Exploration of the Sea* CM 1987/K: 53, 18pp. (mimeo). Mo
- MARTINS, HELEN R. and FILIPE M. PORTEIRO 1988. The exploited stock of *Loligo forbesi* in the Azores: Additional notes on

- biology and fisheries. - *International Council for the Exploration of the Sea* CM 1988/K: 8, 7 pp. (mimeo). Mo
- MATEUS, EMÍLIA DE O. et O. AFONSO 1974. Étude d'une collection d'Amphipoda des Açores avec la description d'une nouvelle espèce. *Publicações do Instituto de Zoologia "Dr. Augusto Nobre"*, Faculdade de Ciências do Porto 126: 1-39. Cr
- METIVIER, B. 1982. Description d'espèces abyssales de Nuculacea des Açores. - *Journal of Conchology*, London 31 (1): 39-44. Mo
- MILLER, P. J. 1984. The gobiid fishes of temperate Macaronesia (Eastern Atlantic). - *Journal of Zoology* 204 (3): 363-412. Pi
- MILNE EDWARDS, A. 1885 *De la faune malacologique des îles Açores*. Paris, 1885. Mo
- MILNE EDWARDS, A. 1891. Campagnes scientifiques de S.A. Le Prince de Monaco. Pagurides nouveaux des Açores. - *Bulletin Société Zoologique de France* 16: 131-135. Cr
- MILNE EDWARDS, A. et E. L. BOUVIER, 1900. *Heterocarpus grimaldii*, espèce nouvelle recueillie par le "Talisman", l'"Hirondelle" et "la Princess Alice". - *Bulletin Société Zoologique de France* 25: 58. Cr
- MILNE EDWARDS, A. et E. L. BOUVIER, 1938. *Heterocarpus grimaldii*, espèce nouvelle recueillie par le "Talisman", l'"Hirondelle" et "la Princesse Alice". - *Résultats des Campagnes Scientifique accomplies sur son yacht par Albert I^{er} Prince Souverain de Monaco* 97: 186 (deuxième édition d'A. Milne Edwards et Bouvier, 1900). Cr
- MONNIOT, C. 1970. Some infralittoral Ascidians of São Miguel, Azores. - *Bulletin Museum d'Histoire Naturelle*, Paris 42 (6): 1200-1207. Tu
- MONNIOT, C. 1974. Littoral and bathyal Ascidians collected during the BIAÇORES campaign, Phlebobranchae and Stolidobranchae. - *Bulletin Museum National d'Histoire Naturelle*, Paris. Zoologie, 173: 1327-1352. Tu
- MORTON, B. S. 1967. Malacological Report. Pp. 30-38 in: ANON. *Chelsea College Azores Expedition*. July - October 1965. Final Report. Mo
- MUZAVOR, SADAT N. XÁ 1981. Contribuição para o estudo do zooplâncton nas águas dos Açores. - *Arquipélago*. Série Ciências da Natureza, 2: 153-165. Pi
- NEWMAN, WILLIAM A. and ARNOLD ROSS 1977. A living *Tesseropora* (Cirripedia; Balanomorpha) from Bermuda and the Azores; first records from the Atlantic since the Oligocene. - *San Diego Society of Natural History, Transactions* 18 (12): 207-216. Cr
- NOBRE, AUGUSTO 1924. Contribuição para a fauna dos Açores. - *Anais do Instituto de Zoologia da Universidade do Porto* 1: 1-94. Ge
- NOBRE, AUGUSTO 1930. *Materiais para o estudo da Fauna dos Açores*. - Instituto de Zoologia da Universidade do Porto. 108 pp. Ge
- PRUD'HOMME VAN REINE, W. F. 1988. Phytogeography of seaweeds of the Azores. - *Helgoländer Wissenschaftliche Meeresuntersuchungen* 42 (2): 165-186. Al
- PEREIRA, JOÃO et ANA AGUIAR 1979. Un poisson ophichthidae nouveau pour la faune des Açores: *Apterichthys caecus* (Linnaeus, 1758). - *Arquivos do Museu Bocage*. Série 2, 7 (43): 1-7. Pi
- PICCONE, A. 1889. Alghe della Crociera del "Corsaro" alle Azzorre. - *Nuovo Giornale Botanico Italiano* 21: 171-214. Al
- PORTEIRO, FILIPE M., HELEN R. MARTINS & ROGER T. HANLON 1990. Observations on the behaviour of adult squids, *Loligo forbesi*, in captivity. - *Journal of the Marine Biological Association of the United Kingdom* 70 (2). Mo
- PRYOR, J. 1967. Intertidal marine algae of

- São Jorge. Pp.17-30 in: ANON. *Chelsea College Azores Expedition*. July-October 1965. Final Report. Al
- PULTZER-FINALI, G. 1973. Notes on *Plocamilla elegans* (Ridley and Dandy) (Porifera, Demospongia, Clathriidae). - *Bollettino dei Musei degli Istituti Biologici della Università di Genova* 41: 35-41. Po
- RANNOU M., J. G. NIELSEN et J.- C. HUREAU 1974. A note on several Aphyonidae of the north Atlantic (Teleostei: Ophidioidi). *Bulletin Museum National d'Histoire Naturelle, Paris*. Zoologie 171: 1249-1257. Pi
- RÉ, PEDRO 1980. The eggs and newly hatched larvae of *Abudefduf luridus* (Cuvier, 1830) (Pisces: Pomacentridae) from the Azores. - *Arquivos do Museu Bocage*. Série 2, 7 (8): 109-116. Pi
- RÉ, PEDRO and A. J. ALMEIDA 1981. Observation on the biology of *Ophioblennius atlanticus atlanticus* Valenciennes in Cun. & Val. 1836) (Pisces: Blenniidae) from the Azores. - *Arquivos do Museu Bocage*. Série B, 5: 41-50. Pi
- RÉ, PEDRO and J. GOMES 1982. The eggs, newly hatched larvae and juveniles of the Azorian (Portugal) *Chromis* (Pisces: Pomacentridae). - *Boletim da Sociedade Portuguesa de Ciências Naturais* 21 (2): 9-18. Pi
- REES, W. J. and E. WHITE 1966. New records and fauna list of hydroids from the Azores. - *Annals and Magazine of Natural History*. Series 13, 9: 272-283. Cn
- REGAN, C.T. 1903. On a collection of fishes from the Azores. - *Annals and Magazine of Natural History*. Series 7, 12: 344-349. Pi
- SALDANHA, LUÍZ 1977. Fish captured and photographed during diving expeditions of the bathyscape "Archimede" in the Azores in 1969. - *Arquivo Museu Bocage*. Série 2, 6 (3): 35-50. Pi
- SALDANHA, LUÍZ (Ed.) 1979. *Missão bio-oceanográfica Açores 79*. Faculdade de Ciências de Lisboa. 43 pp.(mimeo). Ge
- SALDANHA, LUÍZ 1979. *Fauna Submarina Atlântica*. Portugal Continental, Açores, Madeira. Publicações Europa-América 179 pp. Ge
- SALDANHA, LUÍZ 1981. Presence of *Paraconger macrops* (Günther, 1870) from the Azores Islands (Pisces: Congridae). *Cybiurn*. 3^o série, 5 (2): 95-97. Pi
- SANTOS, RICARDO SERRÃO 1985. Estrutura e função dos territórios em machos parentais de *Blennius sanguinolentus* Pallas (Pisces: Blenniidae). - *Memórias do Museu do Mar*. Série Zoológica, 3 (29): 1-46. Pi
- SANTOS, RICARDO SERRÃO 1985. Parentais e satélites. Táticas alternativas de acasalamento nos machos de *Blennius sanguinolentus* Pallas (Pisces: Blenniidae). - *Arquipélago*. Série Ciências da Natureza 6: 119-146. Pi
- SANTOS, RICARDO SERRÃO 1985. Capacidade de retorno à área vital padrão de dispersão e organização social em *Blennius sanguinolentus* Pallas (Pisces: Blenniidae) durante a época de reprodução. - *Arquipélago*. Série Ciências da Natureza 6: 147-172. Pi
- SANTOS, RICARDO SERRÃO 1986. Aspectos da ecologia e comportamento da fauna litoral dos Açores: I Primeiras observações sobre o comportamento territorial e parental de *Parablennius ruber* (Valenciennes) (Pisces: Blenniidae), com uma pequena nota sobre os embriões. - *Açoreana* 6 (4): 295-320. Pi
- SANTOS, RICARDO SERRÃO 1989. Observações sobre os intervalos de desenvolvimento de *Parablennius sanguinolentus* (PALLAS) (Pisces: Blenniidae) dos Açores: Períodos embrionário, larvar e juvenil. - *Arquivos do Museu Bocage*. Nova Série, 1 (19): 293-310. Pi
- SANTOS, RICARDO SERRÃO and VICTOR ALMADA 1988. Intraspecific variations in reproductive tactics in males of the rocky

- intertidal fish *Blennius sanguinolentus* in the Azores. - Pp. 421-447 in: CHELAZZI GUIDO and MARCO VANNINI (Eds). *Behavioural Adaptation to Intertidal Life*. Plenum Press, New York. NATO ASI Series. Series A: Life Sciences Vol. 151. 524pp. **Pi**
- SANTOS, RICARDO SERRÃO, VICTOR ALMADA and ANTÓNIO J. SANTOS 1989. Field experiments and observations on homing and territoriality in intertidal blennies. - Pp.623-632 in: BLANCHARD, ROBERT J., PAUL F. BRAIN, D. CAROLINE BLANCHARD and SIEFANO PARMIGIANI (Eds). *Ethoexperimental Approaches to the Study of Behaviour*. Kluwer Academic Publishers, Dordrecht. NATO ASI Series. Series D: Behavioural and Social Sciences Vol.48. **Pi**
- SANTOS, RICARDO SERRÃO e HELEN ROST MARTINS 1988. Estudos sobre as condições ecológicas da Lagoa do Santo Cristo (Ilha de São Jorge), em especial da sua amêijoá. - 7ª *Semana das Pescas dos Açores, Relatório* 1987: 159-173. **El**
- SCHMIDT, O. C. 1929. Die marine Vegetation der Azoren (Vorläufiger Bericht). - *Hedwigia* 68: 327-346. **Al**
- SCHMIDT, O. C. 1929. Beiträge zur Kenntnis der meeres Algen der Azoren I. - *Hedwigia* 69: 95-133. **Al**
- SCHMIDT, O.C. 1929. Beiträge zur Kenntnis de meeres Algen der Azoren II. - *Hedwigia* 69: 165-172. **Al**
- SCHMIDT, OTTO CHRISTIAN 1931. Die Marine Vegetation der Azoren in Ihren Grundzugen Dargestellt. - *Bibliotheca Botanica* 102:1-115. **Al**
- SEUBERT, M. 1844. *Flora Azorica*. Bonn. pp. I-VI und 1-50. 15 Tafeln. [pp. 9-10 only] **Al**
- SIMROTH, H. 1888. Zur Kenntniss der Azorenfauna. - *Archiv für Naturgeschichte* 1 (3): 179-234. **Ge**
- SILVA, HELDER M. 1986. Reproduction of the forkbeard *Phycis phycis* (Linnaeus, 1766) in Azorean waters. - *International Council for the Exploration of the Sea*, CM 1986/G: 60, 9 pp.(mimeo). **Pi**
- SILVA, HELDER M. 1986. Age and growth of the forkbeard *Phycis phycis* (Linnaeus, 1766) in Azorean waters. - *International Council for the Exploration of the Sea* CM 1986/G: 72, 11 pp. (mimeo). **Pi**
- SOEST, R. W. M. VAN. 1973. Planktonic coelenterates collected in the North Atlantic Ocean. - *Bijdragen Tot de Dierkunde* 43 (1): 119-124. **Cn**
- TOPSENT, EMILE 1897. Pycnogonides recueillis par le yacht Princess Alice. - *Bulletin Société Zoologique de France* 22: 106-107. **Py**
- TOPSENT, EMILE 1904. Spongiaires des Açores. - *Résultats des campagnes scientifiques accomplies sur son yacht par Albert I^{er} Prince souverain de Monaco* 25: 1-256. **Po**
- TRELEASE, W. 1897. Botanical observations on the Azores. - *8th annual report of the Michigan Botanical Garden*. Pp. 77-220 (Marine algae pp. 189-193, 197-198). **Al**
- WOOD, ELISABETH and BILL WILLIAMS 1974. Collection of inshore fishes and ecological notes. Pp. 55-69 in: ANON. *Report of the Exul Sub Aqua Club 1973*. **Pi**
- ZANDER, C. DIETER 1980. Zoogeography and speciation of Mediterranean blennioids (Perciformes, Pisces). - *Journées Études Systématique et Biogéographique Méditerranée*, Caghari, C.I.E.S.M.: 33-38. **Pi**
- ZIBROWIUS, HELMUT 1972. Une espèce actuelle du genre *Neomicrobis* Rovereto (Polychaeta Serpulidae) découverte dans l'étage bathyal aux Açores. - *Bulletin Science Naturelle* 3 (39): 423-430. **An**
- ZIBROWIUS, HELMUT 1977. Scleractinians of submarine caves of the Mediterranean and northeast Atlantic, Portugal, Madeira islands, Canary Islands and the Azores. -

Publicazioni della Stazione Zoologica di Napoli 40 (2): 516-545. Cn

ZIBROWIUS, HELMUT 1979. *Vitreotubus digeronimoi* n.g., n. sp. (Polychaeta Serpuliidae) du Pleistocene Inferieur de la Sicile et de l'Etage Bathyal des Açores et de l'Ocean Indien. - *Tethys* 9 (2): 183-190. An

ZIBROWIUS, HELMUT 1980. The Scleractinian corals of the Mediterranean and the northeastern Atlantic. - *Mémoires de l'Institut Océanographique* (Monaco) 11: 1-227. Cn

ACKNOWLEDGEMENTS

I am greatly indebted to those who have helped with references and furnished me with database printouts. Especially I wish to thank librarian Pauline Simpson of the Institute of Oceanographic Sciences Deacon Laboratory, Alan Bolten of the University of Florida, Steve Hawkins of the Port Erin Marine Laboratory and Paul Cornelius of the British Museum (Natural History). Prof. Hans Brattström, University of Bergen, has given invaluable help in correcting and commenting on the manuscript.

Accepted 30 August 1989.