

APPENDIX 1**ADDITIONS TO FROESE AND SAMPANG'S CHECKLIST OF SEAMOUNT FISHES****Telmo Morato¹, William W. L. Cheung and Tony J. Pitcher***Fisheries Centre, The University of British Columbia, 2259 Lower Mall, Vancouver, B.C., V6T 1Z4, Canada*¹ *also Departamento de Oceanografia e Pescas, Universidade dos Açores, PT 9901-862, Horta, Portugal
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This list complements the preliminary checklist of seamount fishes presented by Froese and Sampang (this volume).

Species name	References
<i>Acantholabrus palloni</i>	Kukuev, 2002
<i>Acromycter perturbator</i>	Moore et al., 2001
<i>Alepisaurus brevirostris</i>	Melo and Menezes, 2002
<i>Alepocephalus productus</i>	Melo and Menezes, 2002
<i>Alepocephalus rostratus</i>	Kukuev, 2002; Melo and Menezes, 2002; Menezes, 2003; OASIS, 2004
<i>Allocyttus niger</i>	Tracey et al., 2004
<i>Allocyttus verrucosus</i>	Hughes, 1981; Tracey et al., 2004
<i>Anarhichas denticulatus</i>	Kukuev, 2002
<i>Anarrhichthys ocellatus</i>	Canessa et al., 2003
<i>Aphanopus intermedius</i>	Kukuev, 2002
<i>Apristurus brunneus</i>	Canessa et al., 2003
<i>Apristurus laurussonii</i>	Kukuev, 2002; Melo and Menezes, 2002
<i>Aptocyclus ventricosus</i>	Hughes, 1981
<i>Argyripnus atlanticus</i>	Kukuev, 2002
<i>Argyropelecus affinis</i>	Moore et al., 2002
<i>Argyropelecus lychnus</i>	Moore et al., 2002
<i>Ariosoma balearicum</i>	OASIS, 2004
<i>Aspitrigla cuculus</i>	Kukuev, 2002; Menezes, 2003; OASIS, 2004
<i>Astronesthes gemmifer</i>	Kukuev, 2002
<i>Astronesthes macropogon</i>	Kukuev, 2002
<i>Atheresthes stomias</i>	Canessa et al., 2003
<i>Avocettina bowersii</i>	Hughes, 1981
<i>Avocettina infans</i>	Moore et al., 2002
<i>Balistes carolinensis</i>	OASIS, 2004
<i>Barbantus curvifrons</i>	Kukuev, 2002
<i>Bathophilus flemingi</i>	Canessa et al., 2003
<i>Bathophilus longipinnis</i>	Moore et al., 2002
<i>Bathophilus pawneeii</i>	Moore et al., 2001
<i>Bathygadus melanobranchus</i>	Melo and Menezes, 2002
<i>Bathylagus pacificus</i>	Hughes, 1981
<i>Bathyraja shuntovi</i>	Tracey et al., 2004
<i>Benthalbella dentata</i>	Hughes, 1981
<i>Bothrocara brunneum</i>	Canessa et al., 2003
<i>Bothrocara molle</i>	Canessa et al., 2003; Hughes, 1981
<i>Brosme brosme</i>	Kukuev, 2002
<i>Brotulotaenia brevicauda</i>	Melo and Menezes, 2002
<i>Brotulotaenia crassa</i>	Kukuev, 2002; Melo and Menezes, 2002; Moore et al., 2002
<i>Caelorinchus bollonsi</i>	Tracey et al., 2004
<i>Caelorinchus celaenostomus</i>	Tracey et al., 2004
<i>Caelorinchus fasciatus</i>	Tracey et al., 2004
<i>Caelorinchus innotabilis</i>	Tracey et al., 2004

Species name	References
<i>Caelorinchus kaiyomaru</i>	Tracey et al., 2004
<i>Caelorinchus labiatus</i>	Melo and Menezes, 2002
<i>Caelorinchus matamua</i>	Tracey et al., 2004
<i>Caelorinchus trachycarus</i>	Tracey et al., 2004
<i>Callionymus maculatus</i>	Kukuev, 2002
<i>Careproctus melanurus</i>	Canessa et al., 2003
<i>Caristius maderensis</i>	Melo and Menezes, 2002
<i>Cataetyx laticeps</i>	Melo and Menezes, 2002
<i>Centrophorus granulatus</i>	Kukuev, 2002; Melo and Menezes, 2002; Menezes, 2003; OASIS, 2004
<i>Centrophorus squamosus</i>	Kukuev, 2002; Melo and Menezes, 2002; Menezes, 2003; OASIS, 2004; Tracey et al., 2004
<i>Centroscyllium fabricii</i>	Kukuev, 2002
<i>Centroscymnus coelolepis</i>	Kukuev, 2002; Melo and Menezes, 2002; Menezes, 2003; OASIS, 2004; Tracey et al., 2004
<i>Centroscymnus crepidater</i>	Kukuev, 2002; Melo and Menezes, 2002; Menezes, 2003; OASIS, 2004; Tracey et al., 2004
<i>Centroscymnus cryptacanthus</i>	Melo and Menezes, 2002; Menezes, 2003; OASIS, 2004
<i>Centroscymnus plunketi</i>	Tracey et al., 2004
<i>Cetorhinus maximus</i>	Canessa et al., 2003
<i>Cetostoma regani</i>	Moore et al., 2002
<i>Chelidonichthys gurnardus</i>	Kukuev, 2002
<i>Chiasmodon niger</i>	Moore et al., 2001; Melo and Menezes, 2002; Moore et al., 2002; Menezes, 2003; OASIS, 2004
<i>Chimaera lignaria</i>	Tracey et al., 2004
<i>Coccorella atlantica</i>	Moore et al., 2002
<i>Conocara macropterum</i>	Melo and Menezes, 2002
<i>Coryphaenoides alateralis</i>	Moore et al., 2001
<i>Coryphaenoides armatus</i>	OASIS, 2004
<i>Coryphaenoides guentheri</i>	Kukuev, 2002; Melo and Menezes, 2002
<i>Coryphaenoides murrayi</i>	Tracey et al., 2004
<i>Coryphaenoides serrulatus</i>	Tracey et al., 2004
<i>Coryphaenoides subserrulatus</i>	Tracey et al., 2004
<i>Cottus ricei</i>	Canessa et al., 2003
<i>Dasyatis pastinaca</i>	OASIS, 2004
<i>Deania profundorum</i>	Kukuev, 2002; Menezes, 2003; OASIS, 2004
<i>Derichthys serpentinus</i>	Moore et al., 2001; Moore et al., 2002
<i>Diaphus rafinesquii</i>	Moore et al., 2001; Moore et al., 2002
<i>Diaphus splendidus</i>	Moore et al., 2002
<i>Diastobranchus capensis</i>	Moore et al., 2001; Moore et al., 2002; Tracey et al., 2004
<i>Dibranchus tremendus</i>	Moore et al., 2001
<i>Dipturus batis</i>	Kukuev, 2002; Menezes, 2003; OASIS, 2004
<i>Dirtmichthys parini</i>	Kukuev, 2002; Melo and Menezes, 2002; Tracey et al., 2004
<i>Dissostichus eleginoides</i>	Koslow et al., 2000
<i>Dolicholagus longirostris</i>	Moore et al., 2002
<i>Dolichopteryx longipes</i>	Melo and Menezes, 2002
<i>Ectreposebastes imus</i>	Kukuev, 2002
<i>Einara macrolepis</i>	Kukuev, 2002
<i>Eopsetta jordani</i>	Canessa et al., 2003
<i>Epigonus robustus</i>	Tracey et al., 2004
<i>Etmopterus baxteri</i>	Tracey et al., 2004
<i>Etmopterus spinax</i>	Kukuev, 2002; Menezes, 2003; OASIS, 2004
<i>Eustomias obscurus</i>	Melo and Menezes, 2002; Moore et al., 2002
<i>Gadiculus argenteus thori</i>	Kukuev, 2002
<i>Gadomus aoteanus</i>	Tracey et al., 2004
<i>Gadomus arcuatus</i>	Melo and Menezes, 2002
<i>Gadomus dispar</i>	Melo and Menezes, 2002
<i>Gadus macrocephalus</i>	Canessa et al., 2003
<i>Gaidropsarus granti</i>	OASIS, 2004
<i>Gaidropsarus macrophthalmus</i>	Kukuev, 2002
<i>Gaidropsarus mediterraneus</i>	Kukuev, 2002
<i>Galeorhinus galeus</i>	OASIS, 2004
<i>Galeus murinus</i>	Melo and Menezes, 2002

Species name	References
<i>Gigantura indica</i>	Moore et al., 2002
<i>Glyptocephalus cynoglossus</i>	Kukuev, 2002
<i>Gonichthys cocco</i>	Moore et al., 2002
<i>Grammatostomias dentatus</i>	Moore et al., 2002
<i>Harriotta raleighana</i>	Kukuev, 2002; Tracey et al., 2004
<i>Hemilepidotus hemilepidotus</i>	Canessa et al., 2003
<i>Heterophotus ophistoma</i>	Moore et al., 2002
<i>Himantolophus albinares</i>	Moore et al., 2002
<i>Hippoglossoides platessoides</i>	Kukuev, 2002
<i>Hippoglossus hippoglossus</i>	Kukuev, 2002
<i>Holtbyrnia anomala</i>	Kukuev, 2002; Melo and Menezes, 2002
<i>Holtbyrnia macrops</i>	Kukuev, 2002
<i>Hoplostethus atlanticus</i>	Kukuev, 2002; Melo and Menezes, 2002; Tracey et al., 2004
<i>Howella brodiei</i>	Moore et al., 2001; Moore et al., 2002
<i>Hydrolagus bemisi</i>	Tracey et al., 2004
<i>Hydrolagus mirabilis</i>	Kukuev, 2002; Menezes, 2003; OASIS, 2004
<i>Hydrolagus pallidus</i>	Kukuev, 2002; Melo and Menezes, 2002
<i>Hydrolagus trolli</i>	Tracey et al., 2004
<i>Hygophum taaningi</i>	Moore et al., 2001
<i>Hyperoglyphe perciformis</i>	Kukuev, 2002
<i>Icichthys australis</i>	Tracey et al., 2004
<i>Icosteus aenigmaticus</i>	Canessa et al., 2003; Hughes, 1981
<i>Kali indica</i>	Moore et al., 2001; Moore et al., 2002
<i>Lampadena speculigera</i>	Moore et al., 2001
<i>Lepidion eques</i>	Kukuev, 2002; Menezes, 2003; OASIS, 2004
<i>Lepidion guentheri</i>	Melo and Menezes, 2002; Menezes, 2003; OASIS, 2004
<i>Lepidion microcephalus</i>	Tracey et al., 2004
<i>Lepidopsetta bilineata</i>	Canessa et al., 2003
<i>Lepidorhombus whiffiagonis</i>	Kukuev, 2002; Menezes, 2003; OASIS, 2004
<i>Lepidorhynchus denticulatus</i>	Tracey et al., 2004
<i>Leptostomias haplocaulus</i>	Melo and Menezes, 2002
<i>Leptostomias longibarba</i>	Moore et al., 2001; Melo and Menezes, 2002
<i>Lestrolepis intermedia</i>	Moore et al., 2002
<i>Leucoraja circularis</i>	Kukuev, 2002
<i>Leucoraja fullonica</i>	OASIS, 2004
<i>Leuroglossus schmidti</i>	Hughes, 1981
<i>Lyconus brachycolus</i>	Kukuev, 2002
<i>Macropinna microstoma</i>	Hughes, 1981
<i>Macrourus carinatus</i>	Tracey et al., 2004
<i>Macruronus novaezelandiae</i>	Tracey et al., 2004
<i>Maulisia argipalla</i>	Melo and Menezes, 2002
<i>Maulisia maui</i>	Kukuev, 2002
<i>Maulisia microlepis</i>	Kukuev, 2002; Melo and Menezes, 2002
<i>Melamphaes lugubris</i>	Hughes, 1981
<i>Melanocetus murrayi</i>	Moore et al., 2001
<i>Melanogrammus aeglefinus</i>	Kukuev, 2002
<i>Melanonus zugmayeri</i>	Melo and Menezes, 2002; Moore et al., 2002
<i>Merluccius australis</i>	Tracey et al., 2004
<i>Mesobius antipodum</i>	Tracey et al., 2004
<i>Micromesistius poutassou</i>	Kukuev, 2002; Menezes, 2003; OASIS, 2004
<i>Microstomus kitt</i>	Kukuev, 2002
<i>Mirognathus normani</i>	Moore et al., 2001
<i>Mitsukurina owstoni</i>	Kukuev, 2002
<i>Molva dypterygia</i>	Kukuev, 2002
<i>Molva macrophthalma</i>	Kukuev, 2002; Menezes, 2003; OASIS, 2004
<i>Molva molva</i>	Kukuev, 2002
<i>Muraena helena</i>	OASIS, 2004
<i>Nannobranchium ritteri</i>	Canessa et al., 2003

Species name	References
<i>Nansenia candida</i>	Hughes, 1981
<i>Neocyttus helgae</i>	Kukuev, 2002; Melo and Menezes, 2002
<i>Nezumia aequalis</i>	Melo and Menezes, 2002; Menezes, 2003; OASIS, 2004
<i>Nezumia sclerorhynchus</i>	Kukuev, 2002
<i>Notacanthus bonaparte</i>	Kukuev, 2002
<i>Notacanthus sexspinis</i>	Tracey et al., 2004
<i>Odontomacrus murrayi</i>	Melo and Menezes, 2002
<i>Oneirodes macrosteus</i>	Melo and Menezes, 2002
<i>Oneirodes thompsoni</i>	Hughes, 1981
<i>Oxynotus bruniensis</i>	Tracey et al., 2004
<i>Pagellus bogaraveo</i>	OASIS, 2004
<i>Pagrus pagrus</i>	OASIS, 2004
<i>Paraconger macrops</i>	OASIS, 2004
<i>Photonectes dinema</i>	Melo and Menezes, 2002
<i>Phycis blennoides</i>	Kukuev, 2002; Menezes, 2003; OASIS, 2004
<i>Platyberyx opalescens</i>	Moore et al., 2001
<i>Pollachius virens</i>	Kukuev, 2002
<i>Poromitra capito</i>	Melo and Menezes, 2002
<i>Poromitra crassiceps</i>	Hughes, 1981
<i>Poromitra megalops</i>	Moore et al., 2001
<i>Protomyctophum thompsoni</i>	Hughes, 1981
<i>Pseudobathylagus milleri</i>	Hughes, 1981
<i>Pseudocyttus maculatus</i>	Tracey et al., 2004
<i>Pseudopentaceros richardsoni</i>	Vinnichenko, 2002a
<i>Pseudotriakis microdon</i>	Kukuev, 2002; Melo and Menezes, 2002; Menezes, 2003; OASIS, 2004
<i>Pteroplatytrygon violacea</i>	OASIS, 2004
<i>Raja brachyura</i>	OASIS, 2004
<i>Raja clavata</i>	Kukuev, 2002; Menezes, 2003; OASIS, 2004
<i>Raja rhina</i>	Canessa et al., 2003
<i>Regalecus glesne</i>	Moore et al., 2002
<i>Rhadinesthes decimus</i>	Kukuev, 2002; Melo and Menezes, 2002
<i>Rhinochimaera atlantica</i>	Melo and Menezes, 2002
<i>Rhinochimaera pacifica</i>	Tracey et al., 2004
<i>Sagamichthys schnakenbecki</i>	Kukuev, 2002
<i>Sarda sarda</i>	OASIS, 2004
<i>Schedophilus medusophagus</i>	Kukuev, 2002
<i>Schedophilus ovalis</i>	Kukuev, 2002; Menezes, 2003; OASIS, 2004
<i>Scopelarchus guentheri</i>	Moore et al., 2002
<i>Scopeloberyx opisthopterus</i>	Moore et al., 2001
<i>Scopelosaurus harryi</i>	Hughes, 1981
<i>Scopelosaurus maui</i>	Moore et al., 2002
<i>Scorpaena azorica</i>	OASIS, 2004
<i>Scorpaena notata</i>	OASIS, 2004
<i>Scorpaena scrofa</i>	OASIS, 2004
<i>Scymnodalatias garricki</i>	Kukuev, 2002
<i>Scymnodon obscurus</i>	Kukuev, 2002; Melo and Menezes, 2002; Menezes, 2003; OASIS, 2004
<i>Searsia koefoedi</i>	Kukuev, 2002
<i>Sebastes aleutianus</i>	Canessa et al., 2003
<i>Sebastes alutus</i>	Canessa et al., 2003
<i>Sebastes aurora</i>	Canessa et al., 2003
<i>Sebastes babcocki</i>	Canessa et al., 2003
<i>Sebastes borealis</i>	Canessa et al., 2003
<i>Sebastes brevispinis</i>	Canessa et al., 2003
<i>Sebastes cramerii</i>	Canessa et al., 2003
<i>Sebastes diploproa</i>	Canessa et al., 2003
<i>Sebastes elongatus</i>	Canessa et al., 2003
<i>Sebastes flavidus</i>	Canessa et al., 2003
<i>Sebastes maliger</i>	Canessa et al., 2003

Species name	References
<i>Sebastes mentella</i>	Kukuev, 2002
<i>Sebastes miniatus</i>	Canessa et al., 2003
<i>Sebastes nebulosus</i>	Canessa et al., 2003
<i>Sebastes nigrocinctus</i>	Canessa et al., 2003
<i>Sebastes pinniger</i>	Canessa et al., 2003
<i>Sebastes proriger</i>	Canessa et al., 2003
<i>Sebastes reedi</i>	Canessa et al., 2003
<i>Sebastes variegatus</i>	Canessa et al., 2003
<i>Sebastolobus alascanus</i>	Canessa et al., 2003
<i>Sebastolobus altivelis</i>	Canessa et al., 2003; Hughes, 1981
<i>Serranus atricauda</i>	OASIS, 2004
<i>Serranus cabrilla</i>	OASIS, 2004
<i>Sladenia shaeferi</i>	Kukuev, 2002
<i>Somniosus microcephalus</i>	Kukuev, 2002; Melo and Menezes, 2002
<i>Somniosus rostratus</i>	Kukuev, 2002
<i>Spectrunculus grandis</i>	OASIS, 2004
<i>Sphagemacurus hirundo</i>	Kukuev, 2002
<i>Spiniphryne gladisfenae</i>	Moore et al., 2002
<i>Squaliolus laticaudus</i>	OASIS, 2004
<i>Stomias affinis</i>	Moore et al., 2001
<i>Stylephorus chordatus</i>	Melo and Menezes, 2002; Moore et al., 2002
<i>Sudis atrox</i>	Kukuev, 2002
<i>Sudis hyalina</i>	Kukuev, 2002
<i>Symbolophorus veranyi</i>	Moore et al., 2001 Moore et al., 2002
<i>Synodus synodus</i>	OASIS, 2004
<i>Taaningichthys bathyphilus</i>	Moore et al., 2002
<i>Tactostoma macropus</i>	Canessa et al., 2003; Hughes, 1981
<i>Talismania longifilis</i>	Tracey et al., 2004
<i>Taractichthys longipinnis</i>	OASIS, 2004
<i>Thalassobathia pelagica</i>	Kukuev, 2002
<i>Theragra chalcogramma</i>	Canessa et al., 2003
<i>Torpedo fairchildi</i>	Tracey et al., 2004
<i>Trachonurus sulcatus</i>	Moore et al., 2001; Moore et al., 2002
<i>Trachyrincus longirostris</i>	Tracey et al., 2004
<i>Trachyrincus murrayi</i>	Kukuev, 2002
<i>Trachyrincus scabrus</i>	Kukuev, 2002
<i>Trachyscorpia capensis</i>	Tracey et al., 2004
<i>Trachyscorpia cristulata echinata</i>	Melo and Menezes, 2002; Menezes, 2003; OASIS, 2004
<i>Trisopterus minutus</i>	Kukuev, 2002
<i>Tubbia tasmanica</i>	Tracey et al., 2004
<i>Venefica procera</i>	Moore et al., 2001
<i>Ventrifossa macropogon</i>	Moore et al., 2002
<i>Vinciguerria nimbaria</i>	Moore et al., 2001; Moore et al., 2002
<i>Xenodermichthys copei</i>	Kukuev, 2002
<i>Xiphias gladius</i>	OASIS, 2004
<i>Yarella blackfordi</i>	Kukuev, 2002
<i>Zaprora silenus</i>	Canessa et al., 2003; Hughes, 1981
<i>Zu cristatus</i>	Moore et al., 2002
<i>Pseudopentaceros wheeleri</i>	Rogers, 1994; Koslow, 1996; Koslow et al., 2000
<i>Sebastes marinus</i>	Hareide and Garnes, 2001

REFERENCES

- Canessa, R. R., Conley, K. W. and Smiley, B. D.. 2003. Bowie seamount pilot marine protected area: an ecosystem overview report. Appendix D. Canadian Technical Report of Fisheries and Aquatic Sciences 2461. 85 pp.
- Froese, R. and Sampang, A. 2004. Taxonomy and biology of seamount fishes. Pp. 25-31 *In*: Morato, T. and Pauly, D. (eds.). Seamounts: Biodiversity and Fisheries. Fisheries Centre Research Report 12(5).

- Hughes, S. E. 1981. Initial U.S. exploration of nine Gulf of Alaska seamounts and their associated fish and shellfish resources. *Marine Fisheries Review* 43: 26-33.
- Koslow, J. A. 1996. Energetic and life-history patterns of deep-sea benthic, benthopelagic and seamount-associated fish. *Journal of Fish Biology* 49(Supplement A): 54-74.
- Koslow, J. A., Boehlert, G. W., Gordon, J. D. M., Haedrich, R. L., Lorange, P. and Parin, N. 2000. Continental slope and deep-sea fisheries: implications for a fragile ecosystem. *ICES Journal of Marine Science* 57: 548-557.
- Kukuev, E. I. 2002. Ichthyofauna research on underwater mountain within the North-Atlantic Ridge and adjacent areas. *ICES CM* 2002/M:05. 19pp.
- Melo, O. and Menezes, G. 2002. Projecto de acompanhamento da experiência de pesca dirigida ao peixe-relógio (*Hoplostethus atlanticus*) - FISHOR: relatório final. Arquivos do DOP. Série Estudos 4/2002. 38 pp.
- Menezes, G. M. 2003. Demersal fish assemblage in the Atlantic archipelagos of the Azores, Madeira and Cape Verde. PhD Thesis, Universidade dos Açores. 227pp.
- Moore, J. A., Vecchione, M., Hartel, K. E., Collette, B. B., Galbraith, J. K., Gibbons, R., Turnipseed, M., Southworth M. and Watkins, E. 2001. Biodiversity of bear seamount, New England seamount chain: results of exploratory trawling. Scientific Council Research Document. Northwest Atlantic Fisheries Organization. Dartmouth, N.S., 01/155. 8pp.
- Moore, J. A., Vecchione, M., Collette, B. B., Gibbons, R. 2002. The fauna of Bear Seamount (New England Seamount chain), and the presence of "natural invaders" species. *ICES CM* 2002/M:25. 12pp.
- OASIS, 2004. Oceanic seamounts: an integrated study. Scientific and Technical Report for the period 01.12.2002-30.11.2003. 68pp.
- Tracey, D. M., Bull, B., Clark, M. R. and Mackay, K. A. 2004. Fish species composition on seamounts and adjacent slope in New Zealand waters. *New Zealand Journal of Marine and Freshwater Research* 38: 163-182.