

TABLE OF CONTENTS

	Page
1. INTRODUCTION	1
1.1 General Remarks on Gadiforme	1
1.2 Information on Fisheries	4
1.3 Plan of the Systematic Catalogue	6
1.4 Problems with Identification.....	7
1.5 Illustrated Glossary of Technical Terms and Measurements	9
2. SYSTEMATIC CATALOGUE OF SPECIES	13
2.1 Key to Families	13
	Code
2.2 FAMILY BREGMACEROTIDAE	BREG 16
Genus <i>Bregmaceros</i>	BREG Breg 16
Tentative list of species	16
<i>Bregmaceros</i> sp.	BREG Breg 1 17
2.3 FAMILY EUCLICHTHYIDAE	EUCL 18
2.4 FAMILY GADIDAE	GADI 18
Key to genera	20
Genus <i>Arctogadus</i>	GADI Arc 25
Key to species	25
<i>Arctogadus borisovi</i>	GADI Arc 1 25
<i>Arctogadus glacialis</i>	GADI Arc 2 26
Genus <i>Boreogadus</i>	GADI Bor 27
<i>Boreogadus saida</i>	GADI Bor 1 27
Genus <i>Brosme</i>	GADI Bro 29
<i>Brosme brosme</i>	GADI Bro 1 29
Genus <i>Ciliata</i>	GADI Cil 31
Key to species	31
<i>Ciliata mustela</i>	GADI Cil 1 32
<i>Ciliata septentrionalis</i>	GADI Cil 2 33
Genus <i>Eleginus</i>	GADI Ele 33
Key to species	34
<i>Eleginus gracilis</i>	GADI Ele 1 34
<i>Eleginus navaga</i>	GADI Ele 2 36
Genus <i>Enchelyopus</i>	GADI En 38
<i>Enchelyopus cimbrius</i>	GADI En 1 38
Genus <i>Gadiculus</i>	GADI Gadi 39
<i>Gadiculus argenteus</i>	GADI Gadi 1 39

Genus Gadus	GADI Gadu	41
Key to species		41
Gadus macrocephalus	GADI Gadu1.....	42
Gadus morhua	GADI Gadu 2	44
Gadus ogac	GADI Gadu 3	47
Genus Gaidropsarus	GADI Gaidr	48
Tentative list of species		49
Gaidropsarus biscayensis	GADI Gaidr 3.....	49
Gaidropsarus macrophthalmus	GADI Gaidr 4	50
Gaidropsarus mediterraneus	GADI Gaidr 1	50
Gaidropsarus vulgaris	GADI Gaidr 2	51
Genus Lota	GADI Lota	52
Lota lota	GADI Lota 1	53
Genus Melanogrammus	GADI Mela	54
Melanogrammus aeglefinus	GADI Mela 1	54
Genus Merlangius	GADI Merla	55
Merlangius merlangus	GADI Merla 1	56
Genus Microgadus	GADI Micro	57
Key to species		57
Microgadus proximus	GADI Micro 1.....	58
Microgadus tomcod	GADI Micro 2	58
Genus Micromesistius	GADI Microm	60
Key to species		60
Micromesistius australis	GADI Microm 2	60
Micromesistius poutassou	GADI Microm 1	61
Genus Molva	GADI Molv	63
Key to species		63
Molva dypterygia	GADI Molv 1	63
Molva molva	GADI Molv2	64
Genus Phycis	GADI Phyc	65
Key to species		66
Phycis blennoides	GADI Phyc 1	66
Phycis chester	GADI Phyc 3	67
Phycis phycis	GADI Phyc 2	68
Genus Pollachius	GADI Pol	69
Key to species		70
Pollachius pollachius	GADI Pol 1	70
Pollachius virens	GADI Pol 2	71
Genus Raniceps	GADI Ran	73
Raniceps raninus	GADI Ran 1	73
Genus Theragra		74
Key to species		74
Theragra chalcogramma	GADI Ther 1	75
Theragra finnmarchica	GADI Ther 2	76
Genus Trisopterus	GADI Triso.....	77
Key to species		77
Trisopterus esmarkii	GADI Triso 3	77
Trisopterus luscus	GADI Triso 2	79
Trisopterus minutus	GADI Triso 1	80

Genus <i>Urophycis</i>	GADI Uroph	81
Key to species		81
<i>Urophycis brasiliensis</i>	GADI Uroph 3	82
<i>Urophycis chuss</i>	GADI Uroph 4	83
<i>Urophycis cirrata</i>	GADI Uroph 5	85
<i>Urophycis earlii</i>	GADI Uroph 6	85
<i>Urophycis floridana</i>	GADI Uroph 1	86
<i>Urophycis regia</i>	GADI Uroph 2	87
<i>Urophycis tenuis</i>	GADI Uroph 7	88
2.5 FAMILY MACROURIDAE	MACROUR.	90
Key to Subfamilies		91
Subfamily Bathygadinae		92
Key to genera		93
Genus <i>Bathygadus</i>	MACROUR Bath	93
List of species		94
<i>Bathygadus macrops</i>	MACROUR Bath 1	94
<i>Bathygadus melanobranchus</i>	MACROUR Bath 2	95
Genus <i>Gadomus</i>	MACROUR Gado	96
List of species		97
<i>Gadomus arcuatus</i>	MACROUR Gado 1	97
Subfamily Macourinae		98
Key to genera		99
Genus <i>Albatrossia</i>	MACROUR Alb	110
<i>Albatrossia pectoralis</i>	MACROUR Alb 1	110
Genus <i>Coelorinchus</i>	MACROUR Coel	111
Key to species		112
List of species		137
<i>Coelorinchus acanthiger</i>	MACROUR Coel 4	139
<i>Coelorinchus ancoragua</i>	MACROUR Coel 5	140
<i>Coelorinchus anatrostris</i>	MACROUR Coel 6	141
<i>Coelorinchus argentatus</i>	MACROUR Coel 7	142
<i>Coelorinchus argus</i>	MACROUR Coel 8	144
<i>Coelorinchus aspercephalus</i>	MACROUR Coel 9	145
<i>Coelorinchus australis</i>	MACROUR Coel 10	146
<i>Coelorinchus biclinozonalis</i>	MACROUR Coel 11	147
<i>Coelorinchus braueri</i>	MACROUR Coel 12	149
<i>Coelorinchus canus</i>	MACROUR Coel 13	150
<i>Coelorinchus caribbaeus</i>	MACROUR Coel 14	151
<i>Coelorinchus chilensis</i>	MACROUR Coel 15	152
<i>Coelorinchus coelorhincus</i>	MACROUR Coel 1	154
<i>Coelorinchus denticulatus</i>	MACROUR Coel 16	155
<i>Coelorinchus fasciatus</i>	MACROUR Coel 2	156
<i>Coelorinchus formosanus</i>	MACROUR Coel 17	158
<i>Coelorinchus hexfasciatus</i>	MACROUR Coel 18	159
<i>Coelorinchus innotabilis</i>	MACROUR Coel 19	161
<i>Coelorinchus japonicus</i>	MACROUR Coel 20	162
<i>Coelorinchus kaiyomaru</i>	MACROUR Coel 21	163
<i>Coelorinchus kamoharai</i>	MACROUR Coel 22	164
<i>Coelorinchus karrerae</i>	MACROUR Coel 23	166
<i>Coelorinchus kishinouyei</i>	MACROUR Coel 24	167
<i>Coelorinchus labiatus</i>	MACROUR Coel 25	168

<i>Coelorinchus longicephalus</i>	MACROUR Coel 26	169
<i>Coelorinchus macrochir</i>	MACROUR Coel 27	171
<i>Coelorinchus marinii</i>	MACROUR Coel 3	172
<i>Coelorinchus matamua</i>	MACROUR Coel 28	173
<i>Coelorinchus multispinulosus</i>	MACROUR Coel 29	174
<i>Coelorinchus occa</i>	MACROUR Coel 30	176
<i>Coelorinchus oliverianus</i>	MACROUR Coel 31	177
<i>Coelorinchus parallelus</i>	MACROUR Coel 32	178
<i>Coelorinchus productus</i>	MACROUR Coel 33	179
<i>Coelorinchus scaphopsis</i>	MACROUR Coel 34	181
<i>Coelorinchus ventrilux</i>	MACROUR Coel 35	182
Genus <i>Coryphaenoides</i>	MACROUR Cory	183
Key to species		183
List of species		201
<i>Coryphaenoides acrolepis</i>	MACROUR Cory 1	202
<i>Coryphaenoides anguliceps</i>	MACROUR Cory 2	203
<i>Coryphaenoides ariommus</i>	MACROUR Cory 3	204
<i>Coryphaenoides armatus</i>	MACROUR Cory 4	205
<i>Coryphaenoides carminifer</i>	MACROUR Cory 5	206
<i>Coryphaenoides cinereus</i>	MACROUR Cory 6	207
<i>Coryphaenoides delsolari</i>	MACROUR Cory 7	209
<i>Coryphaenoides guentheri</i>	MACROUR Cory 8	210
<i>Coryphaenoides longifilis</i>	MACROUR Cory 9	211
<i>Coryphaenoides macrocephalus</i>	MACROUR Cory 10	212
<i>Coryphaenoides marginatus</i>	MACROUR Cory 11	214
<i>Coryphaenoides mexicanus</i>	MACROUR Cory 12	215
<i>Coryphaenoides nasutus</i>	MACROUR Cory 13	216
<i>Coryphaenoides rupestris</i>	MACROUR Cory 14	217
<i>Coryphaenoides serrulatus</i>	MACROUR Cory 15	219
<i>Coryphaenoides subserrulatus</i>	MACROUR Cory 16	220
<i>Coryphaenoides zaniophorus</i>	MACROUR Cory 17	221
Genus <i>Cynomacurus</i>	MACROUR Cyno	223
<i>Cynomacurus piriei</i>	MACROUR Cyno 1	223
Genus <i>Hymenocephalus</i>	MACROUR Hym	224
Key to species		225
List of species		230
<i>Hymenocephalus italicus</i>	MACROUR Hym 1	230
Genus <i>Lepidorhynchus</i>	MACROUR Lep	231
<i>Lepidorhynchus denticulatus</i>	MACROUR Lep 1	232
Genus <i>Macrourus</i>	MACROUR Macr	233
Key to species		234
List of species		234
<i>Macrourus berglax</i>	MACROUR Macr 1	235
<i>Macrourus carinatus</i>	MACROUR Macr 2	236
<i>Macrourus holotrachys</i>	MACROUR Macr 3	237
<i>Macrourus whitsoni</i>	MACROUR Macr 4	238
Genus <i>Malacocephalus</i>	MACROUR Mal	240
Key to species		240
List of species		241
<i>Malacocephalus laevis</i>	MACROUR Mal 1	242
<i>Malacocephalus occidentalis</i>	MACROUR Mal 2	243
Genus <i>Mataeocephalus</i>	MACROUR Mat	244
Key to species		244
List of species		245
<i>Mataeocephalus acipenserinus</i>	MACROUR Mat 1	246
<i>Mataeocephalus tenuicauda</i>	MACROUR Mat 2	247

Genus <i>Nezumia</i>	MACROUR Nez	248
Key to <i>Nezumia</i> groups		248
Key to species of <i>Nezumia</i> by groups		249
List of species		263
<i>Nezumia aequalis</i>	MACROUR Nez 1	264
<i>Nezumia atlantica</i>	MACROUR Nez 2	265
<i>Nezumia bairdi</i>	MACROUR Nez 3	266
<i>Nezumia brevibarbata</i>	MACROUR Nez 4	267
<i>Nezumia condylura</i>	MACROUR Nez 5	269
<i>Nezumia convergens</i>	MACROUR Nez 6	270
<i>Nezumia duodecim</i>	MACROUR Nez 7	271
<i>Nezumia latirostrata</i>	MACROUR Nez 8	272
<i>Nezumia liolepis</i>	MACROUR Nez 9	274
<i>Nezumia loricata</i>	MACROUR Nez 10	275
<i>Nezumia micronychodon</i>	MACROUR Nez 11	276
<i>Nezumia milleri</i>	MACROUR Nez 12	278
<i>Nezumia orbitalis</i>	MACROUR Nez 13	279
<i>Nezumia propinqua</i>	MACROUR Nez 14	280
<i>Nezumia proxima</i>	MACROUR Nez 15	281
<i>Nezumia pudens</i>	MACROUR Nez 16	282
<i>Nezumia pulchella</i>	MACROUR Nez 17	283
<i>Nezumia sclerorhynchus</i>	MACROUR Nez 18	284
<i>Nezumia stelgidolepis</i>	MACROUR Nez 19	286
Genus <i>Sphagemacrurus</i>	MACROUR Spha	287
Key to species		287
List of species		288
<i>Sphagemacrurus grenadae</i>	MACROUR Spha 1	289
Genus <i>Trachonurus</i>	MACROUR Tra	290
Tentative list of species		290
<i>Trachonurus sulcatus</i>	MACROUR Tra 1	290
Genus <i>Ventrifossa</i>	MACROUR Vent	292
Key to adults of genus		292
List of species		296
<i>Ventrifossa atherodon</i>	MACROUR Vent 1	296
<i>Ventrifossa ctenomelas</i>	MACROUR Vent 2	297
<i>Ventrifossa divergens</i>	MACROUR Vent 3	299
<i>Ventrifossa garmani</i>	MACROUR Vent 4	300
<i>Ventrifossa macropogon</i>	MACROUR Vent 5	301
<i>Ventrifossa macroptera</i>	MACROUR Vent 6	303
<i>Ventrifossa misakia</i>	MACROUR Vent 7	304
<i>Ventrifossa mucocephalus</i>	MACROUR Vent 8	305
<i>Ventrifossa nasuta</i>	MACROUR Vent 9	306
<i>Ventrifossa nigrodorsalis</i>	MACROUR Vent 10	307
<i>Ventrifossa nigromaculata</i>	MACROUR Vent 11	309
<i>Ventrifossa petersoni</i>	MACROUR Vent 12	310
Subfamily <i>Macrouroidinae</i>		311
Key to genera		312
Subfamily <i>Trachyrhyncinae</i>		312
Key to genera		313
List of species		313
Genus <i>Trachyrincus</i>	MACROUR Tra	313
Key to species		314
<i>Trachyrincus helolepis</i>	MACROUR Tra 2	315
<i>Trachyrincus scabrurus</i>	MACROUR Tra 1	316
<i>Trachyrincus villegai</i>	MACROUR Tra 3	317

2.6 FAMILY MELANONIDAE	MELAN.....	318
Genus <i>Melanonus</i>	MELAN Melan	318
2.7 FAMILY MERLUCCIIDAE	MERLU.....	319
Key to genera		320
Genus <i>Lyconus</i>	MERLU Lyco	322
List of species		322
Genus <i>Macruronus</i>	MERLU Macru.....	322
Key to species		323
List of species.....		323
<i>Macruronus capensis</i>	MERLU Macru 1	324
<i>Macruronus magellanicus</i>	MERLU Macru 2	325
<i>Macruronus novaezelandiae</i>	MERLU Macru 3.....	326
Genus <i>Merluccius</i>	MERLU Merlu	327
Key to species		328
List of species.....		330
<i>Merluccius albidus</i>	MERLU Merlu 2.....	330
<i>Merluccius angustimanus</i>	MERLU Merlu 5	331
<i>Merluccius australis</i>	MERLU Merlu 6.....	332
<i>Merluccius bilinearis</i>	MERLU Merlu 7.....	334
<i>Merluccius capensis</i>	MERLU Merlu 8.....	335
<i>Merluccius gayi</i>	MERLU Merlu 9.....	336
<i>Merluccius hubbsi</i>	MERLU Merlu 10.....	337
<i>Merluccius merluccius</i>	MERLU Merlu 1	339
<i>Merluccius paradoxus</i>	MERLU Merlu 11.....	340
<i>Merluccius polli</i>	MERLU Merlu 4.....	341
<i>Merluccius productus</i>	MERLU Merlu 12.....	342
<i>Merluccius senegalensis</i>	MERLU Merlu 3.....	343
Genus <i>Steindachneria</i>	MERLU Stein	345
<i>Steindachneria argentea</i>	MERLU Stein 1	345
2.8 FAMILY MORIDAE	MOR	346
Key to genera		347
Tentative list of genera		351
Genus <i>Antimora</i>	MOR Ant.....	352
Key to species		352
<i>Antimora microlepis</i>	MOR Ant 2.....	353
<i>Antimora rostrata</i>	MOR Ant 1.....	354
Genus <i>Auchenoceros</i>	MOR Auch	355
<i>Auchenoceros punctatus</i>	MOR Auch 1	355
Genus <i>Austrophycis</i>	MOR Aust	356
<i>Austrophycis marginata</i>	MOR Aust 1	356
Genus <i>Eeyorius</i>	MOR Eey	357
<i>Eeyorius hutchinsi</i>	MOR Eey 1.....	357
Genus <i>Gadella</i>	MOR Gadel	358
List of species.....		358
<i>Gadella imberbis</i>	MOR Gadel 1.....	358
<i>Gadella maraldi</i>	MOR Gadel 2	359

Genus <i>Halargyreus</i>	MOR Hal	360
<i>Halargyreus johnsonii</i>	MOR Hal 1	360
Genus <i>Laemonema</i>	MOR Laem	361
List of species		361
<i>Laemonema laureysi</i>	MOR Laem 1	362
<i>Laemonema longipes</i>	MOR Laem 2	363
Genus <i>Lepidion</i>	MOR Lep	363
Tentative list of species		364
<i>Lepidion ensiferus</i>	MOR Lep 1	364
<i>Lepidion eques</i>	MOR Lep 2	365
<i>Lepidion lepidion</i>	MOR Lep 3	366
Genus <i>Lotella</i>	MOR Lot	367
Genus <i>Momonatira</i>	MOR Mom	368
List of species		368
Genus <i>Mora</i>	MOR Mor	369
<i>Mora moro</i>	MOR Mor 1	369
Genus <i>Physiculus</i>	MOR Phys	370
Tentative list of species		370
<i>Physiculus dalwigkii</i>	MOR Phys 1	371
<i>Physiculus japonicus</i>	MOR Phys 2	372
Genus <i>Pseudophysicis</i>	MOR Pseud	373
Key to species		373
<i>Pseudophysicis bachus</i>	MOR Pseud 1	373
<i>Pseudophysicis barbata</i>	MOR Pseud 2	374
<i>Pseudophysicis breviscula</i>	MOR Pseud 3	375
Genus <i>Salilota</i>	MOR Sal	316
<i>Salilota australis</i>	MOR Sal 1	377
Genus <i>Tripterophysicis</i>	MOR Tript	378
List of species		378
Key to species		378
<i>Tripterophysicis gilchristi</i>	MOR Tript 1	378
2.9 FAMILY MURAENOLEPIDIDAE	MURAENOL	380
Genus <i>Muraenolepis</i>	MURAENOL Mur	380
Key to species		380
List of species		381
<i>Muraenolepis marmoratus</i>	MURAENOL Mur 1	381
<i>Muraenolepis microcephalus</i>	MURAENOL Mur 2	382
<i>Muraenolepis microps</i>	MURAENOL Mur 3	383
<i>Muraenolepis orangiensis</i>	MURAENOL Mur 4	384
3. LIST OF SPECIES BY MAJOR FISHING AREAS		385
4. BIBLIOGRAPHY		399
5. INDEX OF SCIENTIFIC AND VERNACULAR NAMES		420