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**Checklist of the Fishes of the
Chesterfield Islands (New Caledonia)**

*Catalogue des poissons
des îles Chesterfield (Nouvelle-Calédonie)*

**Michel KULBICKI
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RAPPORT PROVISOIRE

Document de Travail

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CENTRE DE NOUMÉA

Checklist of the fishes of the Chesterfield Islands.

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INTRODUCTION

The Chesterfield Islands are located in the Coral Sea midway between Australia and New Caledonia between latitudes 19 and 22°S (Figure 1). These small islands lie upon a submerged plateau tilted eastward the edges of which are at a depth of 60-80 m. The outer slopes of the bank descend rapidly to depths of over 1000 m. The Chesterfield islands are continued southward by several other submerged plateaus (Nova Bank, Argo Bank, Kelso Bank, Capel Bank) which are the higher parts of the Lord Howe rise. They are separated from the Great Barrier Reef by the end of the Tasman Basin (3500 m deep) on which stand several islands and reefs (Kenn Reef, Bird Island, Cato Island, Frederick Island). The Chesterfield Islands, along with two reef formations (Nereus Reef and Fairway Reef) are separated from New Caledonia by the New Caledonian Basin (over 3500 m deep).

Very few studies have been conducted on the fishes from this area. The first publication concerning Chesterfields fishes seems to be the report by RANCUREL (1973). The next is that of BARRO (1979) who noted that ORSTOM conducted brief trawling trials between 230 and 290 m. The New Zealand Oceanographic Institute undertook a survey of the banks south of the Chesterfield Islands in 1979. We know of no documentation of the fishes sampled during this cruise. In 1980 a Japanese trawler, the KAIMON MARU, fished south of the Bellona islands (BARRO, 1981); however no specimen were retained and some fish identification are questionable. In 1985 the LADY BASTEN, a research vessel from A.I.M.S.¹ stopped for three days at the southern Chesterfield Islands, but there is no information regarding fishes from this cruise.

In 1984 and in 1986, ORSTOM has carried out two cruises (CHALCAL 1 and MUSORSTOM 5) in the Chesterfield area, principally to inventory the benthic fauna (RICHER de FORGES and PIANET, 1984; RICHER de FORGES et al., 1986). The main sampling gears were dredges and beam trawls in which a number of small fishes were taken. During these expeditions fish trawls were used twice and 10 bottom longlines were set. The fish material collected during CHALCAL 1 has been investigated (RIVATON, 1989), but the fishes from the MUSORSTOM 5 cruise are waiting to be curated at the Museum d'Histoire Naturelle of Paris where all the samples were deposited. A few fish specimen were added in 1985 when 15 dredge hauls were made during the BELLONA geological survey .

In 1988 ORSTOM carried out two major cruises to the Chesterfield Islands, CORAIL 2 and 1, in July and September 1988 respectively. CORAIL 2 was planned mainly to study benthic inver-

1. Australian Institute of Marine Sciences

tebrates, but a number of fish specimens were collected in the dredges and beam trawls. The purpose of the CORAIL 1 cruise was the study of fish populations in both reef areas and soft bottoms. Most of the material presented in the present paper comes from this latter cruise.

The Chesterfield Islands have also been visited by some of commercial vessels, in particular longliners from Japan and Taiwan. These boats catch mainly tunas and marlins. Since 1985 two longliners have been based in Noumea (New Caledonia) and their detailed catch records are available. In addition the Japanese vessels HOKKO MARU and FUKUJU MARU set a limited number of bottom longlines for a survey in the southern part of the Islands 1988 and 1989.

MATERIAL AND METHODS

Since most of the publications citing Chesterfield fishes are difficult to obtain, a summary of the fishing methods and locations known to us are given below.

1973 ORSTOM cruise

An account of the fishes seen during this cruise is given by Laboute in the report by RANCUREL (1973). All these sightings took place during five dives in the southern part of the archipelago (Ilot du Mouillage, Ile Longue).

Diaphus 12 cruise

ORSTOM has conducted a number of tuna longline surveys between 1959 and 1975 around New Caledonia. Of these cruises only one, Diaphus 12 has performed some experimental fishing in the Chesterfield area, setting two longlines (GRANDPERRIN et al., 1974).

1979 ORSTOM cruise

This cruise is briefly described by BARRO (1979). Three samples were obtained with shrimp trawls at depths ranging from 230 m to 290 m. Three new species have been described from these samples by FOURMANDIR and RIVATON (1980) and FOURMANDIR (1982). Details of the trawls are given in table 1.

TABLE 1 : Trawls of the 1979 ORSTOM cruise (Barro, 1979).

Trawl n°	Depth range in meters	POSITION		Number of species caught
		Latitude	Longitude	
1	230	19°42'5	158°27'5	6
2	250	19°40'0	158°27'5	7
3	290	19°40'0	158°31'0	4
TOTAL				14

KAIMON MARU

BARRO (1981) reported the positions and the main species caught by this Japanese trawler. Five trawl hauls were made in the Chesterfield area (table 2). Unfortunately no specimen were kept and some identifications are dubious. For this reason only the species for which there was positive identification (mainly pictures) are kept in the present checklist.

TABLE 2 : Positions of the trawls performed by the KAIMON MARU (BARRO, 1981) in the Chesterfield area.

Trawl n°	Depth range in meters	POSITION	
		Latitude	Longitude
7	240 - 288	25°09'2	159°53'6
8	286 - 293	25°30'5	159°44'1
9	232 - 250	24°50'7	159°30'3
10	268 - 270	24°06'0	159°33'0
11	312 - 318	22°44'8	159°22'1

CHALCAL 1

A cruise report by RICHER de FORGES and PIANET (1984) gave a detailed account of the methods used. A total of 10 bottom longline sets were performed between 185 and 450 m. This resulted in the catch of 18 species of fishes. A number of smaller species were taken by fish trawl (2 sets), beam trawl (17 sets) and dredges (68 sets). These fishes were described briefly in the cruise report and in greater detail by RIVATON (1989). The locations of the stations are given in figure 2 and table 3. The unidentified specimen were deposited at the MNHN².

2. Musée National d'Histoire Naturelle de Paris

TABLE 3 : Longline sets, fish trawls, beam trawls and dredges from CHALCAL I cruise. Only the stations where fish were caught are reported here (see RICHER de FORGES and PLANET, (1984) for further information).

Fish trawl n°	Depth range in meters	POSITION		Number of species caught
		Latitude	Longitude	
1	54	21°21'5	159°16'6	0 (snag)
2	330	22°34'4	159°17'4	30
TOTAL				30

Longline n°	Depth range in meters	POSITION		Number of species caught
		Latitude	Longitude	
1	185 - 410	21°14'4	162°15'5	5
2	385 - 410	21°02'0	161°49'0	4
3	330 - 360	19°33'0	158°38'3	3
4	200 - 310	19°06'5	158°36'5	11
5	345 - 350	19°42'0	158°33'7	3
6	300 - 350	19°48'1	158°15'2	3
7	305	20°04'3	158°44'3	2
8	450 - 530	21°12'3	158°38'0	3
9	365 - 375	21°25'5	158°51'4	5
10	440 - 450	21°47'4	159°19'4	5
TOTAL				18

Beam trawl n°	Depth range in meters	POSITION		Number of species caught
		Latitude	Longitude	
1	70	20°45'8	162°02'5	8
2	88	20°31'5	161°06'4	9
3	80	20°30'8	161°05'2	9
4	350 - 370	19°33'9	158°37'9	7
5	290	19°29'1	158°37'6	12
6	68	19°12'2	158°42'0	14
7	65 - 68	19°17'9	158°35'5	25
8	348	19°43'8	158°35'2	10
9	280	19°44'1	158°28'2	3
10	225	20°00'2	158°46'6	17
11	300	20°04'4	158°47'4	7
12	67	20°35'3	158°47'4	36
13	70	20°51'0	158°36'6	3
14	66	21°13'5	158°50'2	16
15	60	21°24'9	159°09'3	45
16	53	21°41'7	159°21'9	1
17	295	22°34'7	159°15'3	14
TOTAL				70

Dredge n°	Depth range in meters	POSITION		Number of species caught
		Latitude	Longitude	
2	80 - 120	21°14'4	162°16'3	7
3	120 - 150	21°14'0	162°16'4	6
6	45	20°57'0	161°43'0	2
7	62	20°50'9	161°37'0	2
10	87	20°36'1	161°05'8	3
14	246	19°26'9	158°35'4	2
15	65	19°23'3	158°38'6	1
16	63 - 67	19°11'9	158°57'0	1
17	44	19°11'9	158°55'8	3
18	60	19°07'8	158°48'1	1
20	67	19°11'6	158°42'1	1
21	73	19°18'2	158°43'3	1
23	63	19°12'9	158°36'0	5
26	48	19°10'7	158°35'0	1
29	100	19°30'6	158°21'1	3
31	230	19°33'3	158°30'3	1
33	205	19°44'8	158°25'8	4
34	33 - 37	19°52'1	158°20'1	4
36	50	19°45'4	158°32'0	6
39	40	20°28'9	158°48'7	1
41	67	20°34'8	158°47'3	5
42	67	20°38'0	158°43'1	6
43	78	20°41'5	158°38'4	2
44	79	20°46'0	158°33'7	5
45	50	20°48'9	158°30'2	2
46	65	20°52'3	158°33'7	1
51	55	21°13'4	158°42'5	1
52	69	21°13'5	158°49'2	2
53	60	21°19'5	158°55'3	8
54	36 - 42	21°25'9	158°59'5	1
55	55	21°23'9	158°59'6	7
56	60	21°24'4	159°08'8	5
59	56	21°34'6	159°18'9	2
61	50	21°42'4	159°29'0	5
64	305	22°11'5	159°15'4	3
68	296	22°35'2	159°15'5	3
TOTAL				56

BELLONA

A few dredge samples were obtained during a geological survey in the Bellona area in October 1985. Some small fish were collected. Details of the stations are given in table 4.

Commercial longliners

Tuna longlining has taken place in the Chesterfield area for at least 15 years. However, detailed catch records have been available only since 1983. A number of reports (HALLIER and MOU THAM, 1983, 1984; MOU THAM and GRANDPERRIN, 1985, 1986) gave the positions of the sets and the fishing effort.

TABLE 4 : Dredge hauls during the BELLONA cruise (1985) resulting in fish specimens.

Dredge n°	Depth range in meters	POSITION		Number of species caught
		Latitude	Longitude	
3	66	21°20'3	158°46'8	2
4	66	21°19'0	158°48'0	5
5	67	21°18'0	158°50'7	4
6	63	21°19'0	158°52'3	6
9	47 - 51	21°23'7	158°54'2	1
12	47 - 50	21°49'7	159°39'3	2
14	42 - 52	21°46'5	159°28'3	1
TOTAL				16

CORAIL 1

As mentioned, the principal objective of this cruise was to study the fish fauna of the Chesterfield Bank. Two ships participated in the survey, the RV ALIS and the RV CORIOLIS. The RV ALIS did the trawling using beam trawl, shrimp trawl and fish trawl (KULBICKI et al., in press). A total of 55 hauls were carried out (table 5, figure 3). The RV CORIOLIS was the base for the study of reef fishes (KULBICKI et al., 1989). Most of the specimens were collected with rotenone. Three localities were sampled at three depth levels in the lagoon : 0-5m, 5-10m and 10-15m (table 6). In addition, some fishes were caught by spear- ing, handlining, quinaldine and gillnet. Fish were also recorded by sighting along transects set in areas close to the rotenone stations (table 6) and at other locations around the islands.

Specimens of approximately 200 species of fishes have been deposited at the Bernice P. Bishop Museum in Honolulu and comparable material will be sent to the MNHN in Paris.

TABLE 5 : Trawls of the CORAIL 1 cruise.

Trawl n° and type	Depth range in meters	POSITION		Number of species caught
		Latitude	Longitude	
1 FT	52	19°29'5	158°22'0	2
2 FT	55	19°25'0	158°25'0	4
3 FT	65	19°12'0	158°27'3	5
4 FT	65	19°12'3	158°25'0	8
5 FT	50 - 67	19°12'0	158°27'1	3
6 FT	61 - 67	19°11'7	158°27'	7
7 BT	78	20°40'8	158°51'	29
8 BT	76	20°39'2	158°56'	14
9 BT	74 - 78	20°44'8	158°57'	10
10 BT	75	20°45'0	158°50'	20
11 BT	82	20°45'0	158°43'	8
12 BT	72 - 80	20°40'9	158°45'	14
13 BT	80	20°39'8	158°38'	11
14 ST	80	20°39'6	158°36'	7
15 ST	85	20°44'8	158°40'	8
16 BT	82	20°45'0	158°35'	16
17 ST	78	20°45'0	158°33'	6
19 ST	71	20°51'0	158°45'	16
20 BT	75	20°50'0	158°56'	11
21 ST	70	20°50'2	158°04'	9
22 ST	72	20°55'8	158°03'	5
23 ST	70 - 77	20°54'7	158°56'	14
24 ST	70 - 78	20°55'0	158°49'	15
25 ST	70 - 76	20°55'2	158°48'	9
26 ST	76	20°55'1	158°42'	13
27 BT	72	20°55'1	158°36'	3
28 BT	70 - 73	20°59'8	158°47'	11
29 BT	73	20°59'6	158°55'	12
30 BT	72	21°00'2	158°03'	3
31 BT	70 - 73	21°04'8	159°04'	9
32 BT	72	21°05'0	158°57'	15
34 BT	71 - 75	21°05'0	158°50'	12
35 BT	75	21°05'1	158°44'	11
36 BT	67	21°05'8	158°49'	10
37 BT	68	21°10'6	158°57'	6
38 BT	60 - 63	21°10'0	158°04'	16
39 BT	65 - 69	21°15'5	159°07'	8
40 BT	71 - 75	21°15'0	158°49'	11
41 BT	89 - 91	20°37'4	160°08'	6

42 BT	91	20°35'7	160°04'	10
43 BT	90	20°34'0	160°02'	6
44 BT	85 - 90	20°32'0	160°59'	5
45 BT	81 - 85	20°30'0	160°57'	15
46 BT	80 - 82	20°28'4	160°55'	8
47 BT	75 - 78	20°26'4	160°52'	15
48 BT	74	20°24'0	160°51'	9
50 FT	80	20°26'0	160°54'	13
51 FT	80 - 85	20°27'8	160°55'	14
52 FT	70 - 90	20°31'8	160°58'	8
53 FT	90 - 92	20°33'5	160°03'	10
54 FT	88 - 93	20°35'6	160°05'	12
55 FT	85 - 90	20°34'5	160°08'	14
TOTAL				137

BT : Beam trawl FT : Fish trawl ST : Shrimp trawl

TABLE 6 : Stations where fishes were collected or sighted during the CORAIL 1 cruise.

Station n° and type	Depth range in meters	POSITION		Number of species recorded
		Latitude	Longitude	
1 - 2 Rotenone	0 - 5	19°53'8	158°27'5	115
1 - 4 Transect	0 - 5	"	" "	102
3 - 4 Rotenone	5 - 10	"	" "	137
5 - 7 Transect	5 - 10	"	" "	80
5 - 6 Rotenone	10 - 15	"	" "	145
8 - 10 Transect	10 - 15	"	" "	69
7 - 8 Rotenone	0 - 5	19°52'0	158°18'0	112
15 - 16 Transect	0 - 5	"	" "	53
9 - 10 Rotenone	5 - 10	"	" "	117
20 - 21 Transect	5 - 10	"	" "	43
11,12,15 Rotenone	10 - 15	"	" "	130
17 - 19 Transect	10 - 15	"	" "	52
13 - 14 Rotenone	0 - 5	19°57'2	158°28'2	132
11 - 14 Transect	0 - 5	"	" "	111
TOTAL				520

CORAIL 2

This cruise was planned primarily to sample the benthic invertebrate fauna of the Chesterfield Plateau. For this purpose dredges and beam trawls were used. A number of small species of fishes were caught with the dredges and beam trawls. The stations where fishes were taken are indicated in table 7.

TABLE 7 : Dredges in which fish were collected during the CDRAIL 2 cruise (RICHER de FORGES et al., 1988). A few beam trawls are indicated by BT as dredge type.

Dredge n° and type	Depth range in meters	POSITION		Number of species caught
		Latitude	Longitude	
1	59	20°55'9	161°40'7	1
2	62	20°50'5	161°37'2	1
4	64	20°52'3	161°36'6	4
5 BT	65	20°52'2	161°36'6	2
6 BT	64	20°51'0	161°36'1	1
7 BT	64	20°52'0	161°37'0	11
8	63	20°52'1	161°38'2	2
9	62	20°53'0	161°35'3	1
10	60	20°52'5	161°41'0	1
11	58	20°50'2	161°40'6	2
12	59	20°47'7	161°36'3	1
14	650	21°00'7	160°57'2	1
15	580	20°50'7	160°55'8	5
16	500	20°47'8	160°55'9	5
17 BT	500	20°48'1	160°57'1	10
18	69	20°44'1	161°00'0	4
19	77	20°41'7	161°00'1	3
20	88	20°39'0	161°01'0	2
22 BT	88	20°32'9	161°02'0	11
23 BT	82	20°30'6	161°03'6	14
24 BT	75	20°27'4	161°04'7	22
25 BT	69	20°25'0	161°05'0	18
26	62	20°22'0	161°24'9	4
27 BT	75	20°21'3	160°58'6	12
29 BT	82	20°31'4	160°52'8	12
32	55	19°24'9	158°48'8	2
34	47	19°21'6	158°55'8	2
38	61	19°21'6	158°42'5	7
39	64	19°21'6	158°38'8	1
41	52	19°21'5	158°31'9	1
43	52	19°21'5	158°26'0	1
44	40	19°21'8	158°23'0	6
45	44	19°21'3	158°19'1	2
46	21	19°18'5	158°20'0	1
48	44	19°18'3	158°27'0	1
50	50	19°18'3	158°33'6	1
51	69	19°18'5	158°36'6	1
52 BT	51 - 68	19°58'8	158°37'1	8
53 BT	57	19°17'2	158°36'3	15
55	71	19°18'3	158°43'5	3
56	66	19°18'5	158°46'8	3
57	65	19°18'5	158°50'0	1

59		50	19*18'5	158*56'6	2
63		71	19*15'1	158*47'7	3
66	BT	68	19*14'5	158*39'9	6
67		66	19*14'9	158*36'9	6
68		65	19*15'0	158*34'0	4
70		54	19*15'0	158*26'6	2
72		32	19*15'3	158*20'9	1
73		41	19*12'1	158*22'6	1
74		62	19*12'1	158*26'6	1
79		58	19*11'6	158*43'4	1
81	BT	70	19*12'0	158*47'1	3
83		59	19*12'0	158*53'6	2
84		16 - 26	19*12'0	158*56'8	5
85		32	19*12'1	158*56'3	1
87		31	19*06'1	158*59'9	1
88		32	19*06'0	158*55'9	2
89		40	19*03'0	158*57'8	1
90	BT	46	19*02'8	158*56'3	23
91		43	19*02'9	158*55'4	1
92		8	19*03'0	158*53'9	5
94		36 - 53	19*06'0	158*50'0	3
96		41	19*06'0	158*41'9	1
99		52	19*06'0	158*31'0	2
100		40	19*06'0	158*26'9	4
101		37	19*09'0	158*26'2	1
103		58	19*01'0	158*31'9	2
105		35	19*08'9	158*39'2	1
106		62	19*09'0	158*42'6	3
107		62	19*08'9	158*44'0	1
108		68	19*09'0	158*49'1	6
109		47 - 64	19*09'0	158*52'5	10
110		40	19*09'0	158*55'8	1
111	BT	67	19*18'1	158*48'9	14
112	BT	62 - 74	19*22'9	158*44'2	18
113		47	19*24'9	158*41'4	1
115		44	19*22'0	158*37'6	1
116		52	19*23'1	158*34'6	1
118		52	19*25'1	158*28'4	1
119		56	19*25'0	158*24'6	6
120		56	19*25'0	158*21'6	4
121		34	19*25'1	158*18'0	4
122		32	19*28'2	158*17'1	4
123		56	19*28'3	158*19'3	2
124	BT	56	19*28'8	158*20'4	6
125		54	19*28'1	158*24'4	1
126		46	19*28'1	158*27'0	2
127	BT	45	19*27'7	158*27'3	15
129		215	19*27'7	158*34'3	2
130	BT	217	19*27'4	158*34'0	7
131	BT	215	19*25'5	158*38'0	15
132		38 - 50	19*31'0	158*28'6	1

133		45	19°31'1	158°25'4	1
135		46	19°31'4	158°19'1	1
136		37	19°31'2	158°16'0	2
137		32	19°34'0	158°14'6	2
138		31	19°33'9	158°17'6	3
139		57	19°34'0	158°20'2	3
141		95	19°34'0	158°27'3	1
142	BT	169 - 193	19°36'2	158°26'8	6
144		50	19°27'7	158°23'3	5
145		54	19°37'0	158°19'1	1
146		44	19°37'0	158°16'3	2
147		25	19°36'9	158°13'5	1
148		34	19°54'1	158°27'1	1
149		19	19°57'0	158°28'0	2
151		35	19°54'0	158°23'0	1
152		51	19°52'0	158°20'0	1
154		35	19°52'0	158°26'5	3
155		42	19°49'1	158°24'9	2
156		42	19°49'0	158°21'0	2
158		28	19°46'0	158°16'5	1
160		35 - 41	19°46'0	158°23'0	4
161		217 - 228	19°46'0	158°26'5	1
162	BT	203	19°46'2	158°25'7	16
163		23	19°41'5	158°15'6	3
164		58	19°41'5	158°18'8	3
166		56	19°41'5	158°25'2	1
171		650	18°24'0	155°21'6	1

TOTAL					179

HOKKO MARU

Experimental bottom longlining was undertaken over most sea mounts of the New Caledonia region by this ship in 1988 (ANDON., 1988). Six sets were made in the Chesterfield area (table 8). In 1989 additional longline sets were carried out by the sister ship FUJUKU MARU, but results from the latter cruise are not yet available.

TABLE 8 : Bottom longline sets by the HOKKO MARU (ANDON., 1988) in the Chesterfield area.

Bottom longline n°	Depth range in meters	POSITION		Number of species caught
		Latitude	Longitude	
12	312 - 355	24°49	159°45	15

13	268 - 280	24*01	159*36	8
14	275 - 280	23*19	159*35	15
15	300 - 310	23*06	159*31	10
16	300 - 480	22*50	159*24	0
17	336 - 390	23*13	159*27	2

TOTAL				32

RESULTS

Table 9 indicates for each species the conditions in which it was caught, in particular its depth range. A total of 795 species distributed among 129 families are recorded. 149 species are identified only to genus at least 10 of these are new species. The composition of this list is unbalanced in favor of shallow-water reef species which have been sampled more thoroughly than fishes from other habitats.

Despite the present sampling is far from complete one notices that a number of genera which are well represented in New Caledonia (Rivaton et al., in prep.) or on the Great Barrier Reef (Russel, 1983; Allen, 1989), are either not yet recorded or scarcely represented in the samples from the Chesterfield islands. Among such genera or families are the *Abudefduf* spp., the *Neopomacentrus* spp., the *Scolopsis* spp., the Lutjanidae or the Siganidae. On the opposite, shallow water Labridae are well represented, a number of species not being yet recorded from New Caledonia.

Table 9 : Preliminary checklist of the fishes from the Chesterfield Islands

- (1):rotenone poisoning : The numbers indicate in how many stations the species was found (max. 15)
 (2):transects : The numbers indicate on how many transects the species was seen (maximum of 21)
 (3):other methods used during the CORAIL 1 cruise:
 -C : cast net or gill net
 -F : line fishing
 -P : poisoning with quinaldine or rotenone outside of the stations
 -S : spear fishing
 -V : sighting
- (4):trawling done by the R.V. ALIS -see table 6 for details of stations. The numbers indicate in how many trawls the species was found.
 (5):either dredge or beam trawl. The numbers indicate in how many stations the species was found.
 (6):Dge : dredge LL : bottom longline
 The numbers indicate in how many stations the species was found.
 (7):Numbers on the left indicate the number of stations where the species was found for the KAIMON MARU and the HOKKO MARU. The symbols on the right are as follow:
 -L : 1973 ORSTOM cruise
 -D : DIAPHUS n°12 cruise
 -P : commercial longliners
 -B : 1979 ORSTOM cruise
- (8):The numbers indicate the number of dredges where the species was found during the BELLONA cruise .
 (9):Depth range (in meters) where the species was found.
 -*** : depth unknown
 -st.cont. : fish found in a stomach content
 sp. : species which could not be identified (bad condition, sighting, unreliable record)
 sp. 1 ... or sp. A ... : species needing further study but identifiable

FAMILIES	CORAIL 1				CORAIL 2	CHALCAL	Others	Bellona	Depth range (9)
	Rot. (1)	Cnt. (2)	Other (3)	Trw. (4)	(5)	Dge LL (6)	(7)	(8)	

HEXANCHIDAE									
Heptranchias perlo							1		270-280
Hexanchus vitulus						2			385-450

LAMNIDAE									
Isurus oxyrinchus			F						40

GINGLYMOSTOMATIDAE									
Nebrius ferrugineus			V						5-20

STEGASTOMATIDAE									
Stegostoma fasciatum			V						10

CARCHARHINIDAE									
Carcharhinus albimarginatus			V					L	10-45
amblyrhynchus			V					L	5- 45
melanopterus			V						0- 15
plumbeus						1			185-305
Prionace glauca								D	longline

TRIAKIDAE									
Hemitriakis japonica						2			200-375
Mustelus manazo							1		275-310
sp.						1	1		450-530

HEMIGALEIDAE							
Triacnodon obesus		1	V			L	5-15

SQUALIDAE							
Squalus megalops					1	3	270-360
rancureli					3		320-410
sp.					2		365-410

DASYATIDIDAE							
Dasyatis kuhlii			V	4			1 -93
Urogymnus asperrimus			V				15
Urolophus sp.nov. ?					1		217

MYLIOBATIDAE							
Aetobatus narinari			V				15-20

CONGRIDAE							
Ariosoma anago					1		350
mauritianum					1		60
Conger cinereus	3		P				0-10
Gnathophis sp.					1		295
Heteroconger hassi			V				10

OPHICHTHIDAE							
Leiuranus semicinctus	2						5-15
Muraenichthys sp.1	2		P	5	2		5-66
Myrophis uropterus				2	1		44-660
Ophichthidae sp.1	1						5
sp.2	1						5

CHLOPSIDAE							
Kaupichthys sp.1	6						3-15

MURAENIDAE							
Anarchias sp.1	3						3-15
sp.2	1						3
Apterichthys klazingai				1			25
Enchelycore bayeri	2						5-15
Gymnothorax berndti					1	B	80-290
buroensis	6						3-10
chilospiros	2						5
flavimarginatus	1						4
fimbriatus				1			78
fuscomaculatus	4						3-10
intesi						1	200-310
javanicus	2						3-10
margaritophorus	3						3-15
melatreus	1						12
meleagris	1	1					10
molluccensis	2						3-15
pindae	11						3-15
zonipectis	5						3-15
sp.1	1			5			15-208
Siderea prosopion			P				1
Uropterygius sp.1	1						7-15
sp.2	2						8
sp.3	1						7-12

MORINGUIDAE							
Moringua sp.1	1						5
Moringua sp.2	2						10

GONORHYNCHIDAE							
Gonorhynchus gonorhynchus				1			60

GONOSTOMATIDAE							
Polymetme corythaeola				2			650-705
Valenciennellus tripunctulatus				1			500

STERNOPTYCHIDAE							
Argyropolecus sp.						D	st.cont.

AULOPIDIDAE							
Aulopus japonicus						B	290

SYNODONTIDAE							
Saurida gracilis	7	2		1			4-68
undosquamis				6	2		51-68
Synodus binotatus	3						3-10
dermatogenys	8	1		6	1		3-217
hoshinonis				34	7		53-91
jaculum	2	1		2			12-76
macrocephalus					10		51-217
oculeus				5	10		44-91
variegatus	2				1		8-56
sp.1 trawled	1			2			12-75
sp.2	1						8
Trachynocephalus myops					1		67-70

PLOTOSIDAE							
Plotosus lineatus	1						4

MYCTOPHIDAE							
Diaphus caeruleus				1			500

CHLOROPHTHALMIDAE							
Chlorophthalmus albatrossis						1	348
sp.						1	330

ALEPISAUROIDAE							
Alepisaurus brevirostris						D	longline
ferox						D	longline

BREGMACEROTIDAE							
Bregmaceros nectabanus					1		350
Bregmaceros sp.				3	1		66-500

MACROURIDAE							
Coryphaenoides sp.				3			500-590

BYTHIDIDAE							
Brosomphyciops pautzkei	1						8
Dinematicichthys sp.1 brown	7						3-15
sp.2 yellow	9						3-15
sp.3 pink	5						4-10

Dinematichthys sp.	1							8

OPHIDIIDAE								
Brotula multibarbata	5					2		4-88
Brotula sp.	1							3-5
Ophiodon muraenolepis						1		350-370

CARAPIDAE								
Carapus sp.								*****
Encheliophis gracilis						1		62

LOPHIIDAE								
Lophiomus setigerus						2		215-510

ANTENNARIIDAE								
Antennarius coccineus	7							3-15
commerson					1			65-70
nummifer				1			1	63-78
sp.				2				65-72

CHAUNACIDAE								
Chaunax fibriatus					3			500-590

OGCOEPHALIDAE								
Halicmetus reticulatus					1			500
Malthopsis annulifera					2	1		305-590
lutea					1			500

GOBIESOCIDAE								
Discotrema sp.1	1							8
Lepadichthys sp.	2							15
Lepadichthys sp.1	3							3-8

BELONIDAE								
Platybelone argalus platyura				V				2

ATHERINIDAE								
Atherinomorus lacunosus				C				1
Hypoatherina barnesi				C				1
sp.	1							15

LAMPRIDAE								
Lampris guttatus							D	longline

VELIFERIDAE								
Metavelifer multiradiatus				2				70-90

TRACHYPTERIDAE							D	st.cont.

ATELEPODIDAE								
Ateleopus japonicus				1				215-217

MONOCENTRIDIDAE								
Monocentris japonicus				1			B	203-290

ANOPLOGASTRIDAE								
Anoplogaster cornutus							D	st.cont.

BERYCIDAE							
Beryx	decadactylus					2	270-355
	splendens					1	270-355
Centroberyx	affinis			1			215-217

HOLOCENTRIDAE							
Myripristis	adusta	3					2-15
	berndti	5					2-15
	kuntee	10					2-15
	murdjan	3					3-15
	pralinia	8					3-15
	violacea	7					3-15
	vittata				V		18
	sp.		1				10
Neoniphon	argenteus	5	1				8-15
	opercularis	1					4
	samara	10	2				3-15
	sp.		2				8
Ostichthys	hypsipterygion					2	270-355
	kaianus					2	225-330
Plectrypops	lima	5					4-10
Sargocentron	caudimaculatum				V		25
	diadema	14					2-15
	melanospiros	1					7
	punctatissimum	3			P		4-15
	spiniiferum	9	3				2-15
	sp.	4					7-13

POLYMIXIIDAE							
Polyamia	japonica			1		2	270-500

PARAZENIDAE							
Parazen	pacificus			1			500

ZEIDAE							
Cyttomus	stelgis			1			500
Zenopsis	nebulosus				1	2	270-330

CAPROIDAE							
Antigonia	capros			3		8	225-348

AULOSTOMIDAE							
Aulostomus	chinensis		5	S			3-10

FISTULARIIDAE							
Fistularia	commersonii				V	6	15-93
	petimba		1			1	44-80

SOLENOSTOMIDAE							
Solenostomus	sp.			1			75

SYNGNATHIDAE							
Corythoichthys	amplexus	2				3	13-51
	haematopterus					1	19
	intestinalis					12	32-225
	schultzi					4	47-75
	sp.1	2		S			10

Corythoichthys sp.2	1						10
sp.		5					8
Doryrhamphus excisus	5						3-15
dactyliophorus	2						3-8
Festucalex erythraeus				4	2	1	35-69
gibbsi				3			35-41
Halicampus dunckeri				1	1		63-67
Hippocampus histrix		1	1	1			60-69
Micrognathus sp.1	3						7
sp.2	1						10

SCORPAENIDAE							
Ablabys taenianotus				5	4		44-78
Dendrochirus brachypterus		4	4				32-80
Iracundus signifer			1				63-64
Neocentropogon sp.1		1			1		75-79
trimaculatus			1				203-208
Neomerinthe rufescens						B	250
rotunda					2		225-295
Ocosia apia					2		330-350
Paracentropogon longispinis						1	63-64
Parascorpaena mcadamsi			2				16-26
Pontinus macrocephalus						1	310
Pontinus sp.		1	2	1			44-150
Pteroidichthys sp.		6	5				62-83
Pterois antennata		2					70-76
Richardsonichthys leucogaster		12			4		56-90
sp. 1			8	2		1	47-246
Scorpaena neglecta					1		120-150
Scorpaenodes albaensis	3						3-8
guamensis	3						3-15
hypomacrous	1						4
parvipinnis	4						3-15
scabra	2						8-12
varipinnis	3						7-15
sp.1	4						3-10
Scorpaenopsis diabolus	1						7
oxycephala	1						3
fowleri	1						7
sp.	1				1		7-55
Sebastapistes cyanostigma	2						7-9
sp.1	4						3-8
sp.2	2						3-8
Setarches guentheri			1	4			300-500
longimanus				2			230-350

SYNANCEIIDAE							
Erosa erosa			5	3			62-85
Inimicus didactylus			5			2	63-78
Synanceia verrucosa	1						13

APLOACTINIDAE							
Cocotropus dermakanthus	2						7-12
Erisphex obbesi				1			57
potti				1			64
Paraploactis sp.				1			50

CARACANTHIDAE										
Caracanthus unipinna	3				1					8-15
TRIGLIDAE										
Lepidotrigla sp.					4		1			169-330
Parapterygotrigla sp.					1					500
Pterygotrigla sp.							2			225-350
Satyrichtys welchi							1			350-370
DACTYLOPTERIDAE										
Dactyloptena orientalis				S	1	2			D	15-65
PLATYCEPHALIDAE										
Bembradium sp.							1			348
Onigocia macrolepis					6	3	3		1	60-90
spinosa					4	18			1	41-82
Platycephalidae gen. nov.						3				51-68
Platycephalus sp.	1	1								3-15
Rogadius asper						2				35-41
Suggrundus sp.						1				203-208
Thysanophrys sp.1	6									3-15
sp.2	2									7
sp.3	1									8
HOPLICHTHYIDAE										
Hoplichthys citrinus							3		B	290-330
PEGASIDAE										
Eurypegasmus draconis				P	5	2				1-70
PERCICHTHYIDAE										
Neoscombrops pacificus							2			295-330
Synagrops philippinensis							1			350-370
SERRANIDAE										
Anyperodon leucogrammicus				V						25
Caprodon schlegeli									2	270-280
Cephalopholis argus	1	3		V						1-20
leopardus	2									7-15
miniata	2	3								7-15
spiloparaea				V						20
urodeta	5	2								5-15
Cheilidoperca sp.						1				215
lecroni							3			295-330
Epinephelus cyanopodus	3	2		S	1				L	7-80
fasciatus				V						12
fuscoguttatus								1		345
lanceolatus				V						25-40
macrospilos	1									5
maculatus		2		V	1					8-64
nerra	7	9		P						1-15
microdon	5	4								4-15
morhua								3	2	185-450
septemfasciatus									2	270-355
Gracila albomarginata									L	<35
Grammistops ocellatus	1									12
Liopropoma susumi	8									3-15

Luzonichthys sp.							D	st.cont.
Ostracoberyx dorygenis							3	270-355
Plectranthias barroi						1		203-208
fourmanoiri	1							12
kelloggi						1		348
longimanus					5			32-75
maculatus						1		225
randalli							B	300
sp.					2			58-62
Plectropomus laevis	4	5						4-15
leopardus	1	4						2-15
Pseudanthias elongatus						1		100
hypselosoma	2	1			1			15-48
pascalus				V				20-35
squampinnis				V				20
Pseudogramma polyacantha	7				1			3-48
Variola louti	1						L	8-35
CALLANTHIDAE								
Callanthias australis						1		330

CIRRHITHIDAE								
Cirrhitichthys falco	1							15
Cyprinocirrhites polyactis				V	3	3		15-95
Paracirrhites arcatus	1							12
forsteri	2	1						8-12

BANJOSIDAE								
Banjos banjos							2	270-355

KUHLIIDAE								
Kuhlia mugil				C				2

PRIACANTHIDAE								
Cookeolus japonicus							5	270-355
Heteropriacanthus cruentatus	3	1						4-8
Priacanthus hamur		1		V				5
macracanthus						1		330

PSEUDOCHEMIDAE								
Cypho purpurascens				V				10
Pseudochromis accullochi	15			V				3-15
paccagnellae				V				10
salvati	14							3-15
tapeinosoma	4			P				1-10
Pseudoplesiops (Chlidichthys?) sp.	10							3-15

PLESIOPIDAE								
Assessor macneilli	6							7-12
Plesiops sp. nov.	3							3-5

APOGONIDAE								
Apogon apogonoides-	2				2			12-75
aureus	1					1		12-65
bandanensis					2	1		23-62
catalai				9	10	3		51-88
crassiceps	13			P				2-15
cyanosoma	10				3			3-64

Apogon doederleini	5				1			3-65
doryssa	1							12
elliotti				3	1			68-82
exostigma	13				1			3-47
fasciatus				7				67-91
frenatus	3							3-15
fuscus	12	1						3-15
guamensis			P					1
kallopterus	10							2-15
kiensis				3	5			73-78
nigrofasciatus	9							3-15
notatus				2				70-76
novemfasciatus				1	2			16-85
septemstriatus						3		60-68
taeniophorus			P					1
talboti			P					1
trimaculatus	4							3-12
Apogonichthys ocellatus	1							3-8
perdix	6							3-15
Archamia fucata	2	3						10-15
Cheilodipterus artus	7							3-15
lineatus	6							3-15
quinquelineatus	12	1						3-15
Foa sp.				7	1	1		67-78
Foa brachygramma						1		69
Fowleria abocellata					1			23
aurita					2			44-74
isostigma	8							2-8
marmorata	4					2		3-67
variegata	2							2-8
sp.	1				2	2		43-75
Gymnapogon sp.1	2							7
sp.2	1							4
Pseudamiops sp.	2							2-7
Rhabdamia cypselurus	2			1				12-73
erebia ?	2							12
gracilis	2	3		3	5			12-91
Siphamia versicolor				12	9			62-91

MALACANTHIDAE

Hoplolatilus starcki			V					20
sp.					1		D	85
Malacanthus brevisrostris			V					15
latovittatus		1	V					15-20

CARANGIDAE

Carangoides ferdau			V				L	10-30
fulvoguttatus			V	1				10-92
gymnostethus			S					12
sp. cf equula						2		270-355
Caranx chrysophrys						1		275-310
ignobilis *			V				L	20-40
lugubris							L	40
melaampygus		1	V				L	3-40
Decapterus russelli					1			67
sp. (tabl?)						1		310
Elagatis bipinnulata							L	<40

Gnathanodon speciosus			V				L	15-30
Naucrates ductor					1			300
Pseudocaranx dentex			V					12
Scomberoides lysan			S					10-15
Seriola aureovittata							1	290
dumerili							2	270-355

CORYPHAENTIDAE								
Coryphaena hippurus							P	trolled

BRAMIDAE								
Brama orcinii							D	st.cont.
Pteraclis velifera							D	st.cont.
Pterycombus petersii							D	st.cont.

EMMELICHTHYIDAE								
Emmelichthys nitidus					1			85-88

LUTJANIDAE								
Aphareus furca		1	V					12-15
Aprion virescens		2	S	1			L	5-80
Etelis carbunculus						9	1	275-530
coruscans						7	3	285-530
Lutjanus adetii				3			L	80-85
Lutjanus bohar	4	10						4-15
gibbus			V					5
kasmira	2	3					L	3-15
quinquelineatus	4	2						3-15
sebae			V	2				15-85
vitta				3				80-93
Macolor niger			V				L	20-30
Paracaesio caeruleus							1	270-355
Parapristipomoides squamimaxillaris							2	270-355
Pristipomoides argyrogrammicus				1		4	3	200-480
auricilla						1		200-310
filamentosus							1	270-355
flavipinnis						1		200-310
sieboldii							2	270-355
zonatus						2		185-310

CAESIONIDAE								
Caesio caerulea		1	V					4-8
Pterocaesio digramma	1	2		4				4-92
Pterocaesio pisang					2			44-65
Pterocaesio tile	1	5						4-15
trilineata	3	8	V					3-15

HAEMULIDAE								
Diagramma pictum		2	S	4				5-93
Plectorhynchus chaetodonoides			S					12
picus	1	3	S					5-10

LETHRINIDAE								
Gnathodentex aurolineatus	4	9						2-10
Gymnocranius audleyi			V					15
lethrinoides		2	S			1		5-200
grandoculis				1				70-90

<i>Gymnocranius</i> sp.1		1	V				5-15
<i>Lethrinus</i> <i>harak</i>			F				20
<i>erythracanthus</i>			V				25
<i>mahsena</i>				4			80-92
<i>miniatus</i>	1	2	V				8-25
<i>nebulosus</i>		1	V	1			7-80
<i>olivaceus</i>		1	V				15-25
<i>rubrioperculatus</i>				1			88-93
<i>xanthochilus</i>			F				25
<i>Monotaxis</i> <i>grandocculus</i>	4	13			1		3-48
<hr/>							
NEMIPTERIDAE							
<i>Parasclopsis</i> sp.					1		215-217
<i>Pentapodus</i> sp.			P	2			10-80
<i>Scolopsis</i> <i>affinis</i> ?			V				10
<hr/>							
MULLIDAE							
<i>Mulloides</i> <i>flavolineatus</i>		13					1-7
<i>vanicolensis</i>	3	3					1-10
<i>Parupeneus</i> <i>barberinoides</i>			V	5	1		20-76
<i>barberinus</i>	7	10	S				1-15
<i>cyclostomus</i>	3	11		1			2-78
<i>ciliatus</i>		1					2-7
<i>multifasciatus</i>	9	18					1-15
<i>pleurostigma</i>	5	2		17	6		2-91
<i>heptacanthus</i>				5			80-90
<i>Upeneus</i> sp.	1			6			70-82
sp. nov. 1 (long fin)				13	6		70-92
sp. nov. 2 (yellow barbel)				6			60-76
<i>vittatus</i>					1		60-74
<hr/>							
MONODACTYLIDAE							
<i>Monodactylus</i> <i>argenteus</i>	1						12
<hr/>							
PEMPHERIDIDAE							
<i>Parapriacanthus</i> <i>ransonnetti</i>	2	3		1			8-76
<i>Pempheris</i> sp.1	3						7
<hr/>							
KYPHOSIDAE							
<i>Kyphosus</i> <i>cinerascens</i>			C				20
<i>vaigiensis</i>		1	S				5-20
<hr/>							
EPHIPPIDIDAE							
<i>Platax</i> <i>pinnatus</i>		1	S				12-15
<hr/>							
CHAETODONTIDAE							
<i>Chaetodon</i> <i>auriga</i>	6	6					1-15
<i>bennetti</i>			V				7
<i>citrenellus</i>	10	5					1-12
<i>ephippium</i>			V				8
<i>flavirostris</i>	3	4					6-14
<i>guentheri</i>				3	1		70-90
<i>kleinii</i>	1		S		1		5-48
<i>lineolatus</i>		1	V				10
<i>lunula</i>			V				15
<i>melanotus</i>	3						2-12
<i>mertensii</i>	7	3					2-15

Chaetodon									
pelewenis	4	5							2-12
plebeius	5	4							2-14
reticulatus			V						15
trifascialis	3	7							2-12
trifasciatus	6	5							2-12
ulietensis	2								8
unimaculatus	1								12
vagabundus	1		V						3
Coradion									
altivelis								1	70-77
Forcipiger									
flavissimus	1	1	V						2-12
Heniochus									
acuminatus	1	3						1	5-90
chrystomus	3	5							2-15
monoceros	3	4							2-15

POMACANTHIDAE									
Centropyge									
bicolor			V						5
bispinosus	10	10							1-15
flavicauda			P		2		1		10-60
flavissimus	5	2							1-15
heraldi			V,						10
sp.					1				35-53
tibicen	9	9							1-15
vrolicki	3								3-12
Chaetodontoplus								1	
conspicillatus									100
Genicanthus			V						20
watanabei			V						10
Pomacanthus			V						
imperator			V						7
Pygoplites			V						
diacanthus	1								

PENTACEROTIDAE									
Pentaceros								1	
japonicus									270-280

POMACENTRIDAE									
Amblyglyphidodon									
curacao	3	3							1-14
leucogaster			V						7
Amphiprion									
akindynos	4	9		2	1				1-76
clarkii			V						4
melanopus	3	6							2-15
perideraion	2		V						10-15
Chromis									
agilis	2	3							10-15
amboinensis			V						not avai
atripectoralis	3	3							3-12
atripes			V						12
chrysur	8	4							3-15
flavomaculata	3	1							5-15
fumea	1	2		1					12-72
ionelas	4	4							3-13
lepidolepis	1								12
leucura				1					70
margaritifer	5	3							7-15
mirationis							1		203-208
retrofasciata			V				3		12-32
ternatensis	3	1					1		15-64
vanderbilti	1								7-15
viridis	4	3							2-15
weberi			V						10
xanthura	2								7-12
Chrysiptera									
biocellata	2	2							1-5

<i>Chrysiptera flavipinnis</i>			V					10
<i>glauca</i>			P					1
<i>rollandi</i>		1						4
<i>taupou</i>	6	5						1-10
<i>starcki</i>			P					1
<i>tricincta</i>			P	14	10	1		20-90
<i>Dascyllus aruanus</i>	7	8			1	2	2	1-67
<i>melanurus</i>						2	1	50-67
<i>reticulatus</i>	9	7			3			1-48
<i>trimaculatus</i>			V					10
<i>Lepidozygus tapeinosoma</i>	1							15
<i>Paraglyphidodon melas</i>	1	3	S					1-5
<i>Plectroglyphidodon dickii</i>			V					10
<i>johnstonianus</i>	6	3	V					3-15
<i>lacrymatus</i>	7	5						1-15
<i>Pomacentrus amboinensis</i>	8	8				1		1-15
<i>bankanensis</i>	2					1		5-32
<i>lepidogenys</i>	7	6						1-15
<i>melanopterus</i>	6	5	S					3-12
<i>moluccensis</i>	9	11						1-15
<i>pavo</i>	4	4						5-15
<i>philippinus</i>	2	2						7-15
<i>sp.</i>				2				71
<i>vaiuli</i>	13	14						1-15
<i>Pomachromis richardsoni</i>			V					20
<i>Pristotis jerdoni</i>				19	2			70-85
<i>Stegastes albifasciatus</i>			P					2
<i>fasciolatus</i>	1							1-5
<i>gascoynei</i>	1							1-5
<i>nigricans</i>	7	8						1-7
<hr/>								
MUGILIDAE								
<i>Crenimugil crenilabis</i>			C					2
<hr/>								
SPHYRAENIDAE								
<i>Sphyraena barracuda</i>			V				L	5
<hr/>								
LABRIDAE								
<i>Anampses femininus</i>	1	3						2-8
<i>geographicus</i>	3	7						3-15
<i>neoguinaicus</i>	3	10	S					3-15
<i>twistii</i>	1							4
<i>Bodianus axillaris</i>			V					12
<i>cylindriatus</i>						1		330
<i>loxozoneus</i>			V					10
<i>perditio</i>		2	V					15-25
<i>sp. nov.</i>						2	2	50-310
<i>Cheilio inermis</i>		1	V					4
<i>Cheilinus bimaculatus</i>			S	1	5	2		25-61
<i>chlorourus</i>	9	14						2-15
<i>diagramma</i>	4	7						2-15
<i>fasciatus</i>		1						3
<i>oxycephalus</i>	7	1						2-15
<i>sp. nov. 1 (Russell)</i>				22	22	3	3	31-90
<i>sp. nov. 2 (Gomon & Randall)</i>	3							3-8
<i>trilobatus</i>	3	6						2-15
<i>undulatus</i>	1							8

	3	7					2-15
Choerodon fasciatus	1		V				4-10
jordanii					23		55-82
sp. 1 pink					5	3	62-217
sp. 2 blue					1		72
Cirrhilabrus punctatus	5	4			4	4	2-78
sp.1			P				36
laboutei	1		S				13-20
lineatus			S,				1
Coris aygula		5	V				2-5
dorsomaculata			S				10
gaimard		2	V				4-12
picta					1		85
shroederi	4	14	S				1-15
Cymolutes sp.			V				5
Epibulus insidiator	4	7					1-15
Gomphosus varius	7	13					1-15
Halichoeres biocellatus	4	1					2-14
hortulanus		5	V				2-15
margaritaceus			P				1
marginatus	1	2	P				1-15
prosopeion			V				5
sp.					1		75
trimaculatus	4	12					2-15
Hemigymnus fasciatus		7					1-15
melapterus	1	4					1-8
Hologymnosus doliatus			V				5
Labrichthys unilineatus	1						3
Labroides bicolor	2	1	V				2-12
dimidiatus	7	4					1-15
Lapropsis australis	3	1					2-12
xanthonota			V				20
Macropharyngodon kuiteri	2						8-15
meleagris		1	V				12
negrosensis	1						10
Novaculichthys taeniourus		1	V				4-25
Pseudocheilinus evanidus	4						2-13
hexataenia	11	3				1	2-15
octotaenia			V				20
Pseudojuloides cerasinus			V				10
Pteragogus cryptus	2				1		2-69
flagellifera					1		70-78
opercularis						3	60-70
sp.1	7	1				1	2-64
Stethojulis bandanensis	7	9	P				1-10
strigiventer	3	5					1-15
Thalassoma amblycephalum	2	1					7-12
hardwickei	3	10					1-8
janseni		4	P				1-8
lunaris	7	6					1-15
lutescens	13	22					1-15
purpureum ?			P				1
quinquevittatum			P				1
Xiphocheilus typus					3		67-82
Wetmorella albofasciata	1						3
nigropinnata	8						2-15
Xyrichtys pavo			F,			1	5-70

Xyrichtys sp.1			V					8

SCARIDAE								
Calotomus carolinus				1				65-69
Cetoscarus bicolor	1	6	V					4-8
Hipposcarus longiceps		5	V					4-10
Scarus altipinnis	2	8	V					3-9
chameleon		11						2-15
forsteni			V					20
frenatus		1	V					10-15
frontalis			S,					15
ghobban	2	5		1				3-90
globiceps			V					18
longipinnis	6	12	S	1				2-69
microrhinos	6	12						2-20
niger	3	12						1-15
oviceps		1	V					1-5
psittacus	6	2						1-8
rivulatus		2	V					1-5
rubroviolaceus			V					20
schlegeli		9	V					1-15
sordidus	11	14						1-15
spinus			V					20

OPISTOGNATHIDAE								
Opistognathus sp. nova					2			56-210

CHIASMODONTIDAE								
Pseudoscopelus sp.							D	st.cont.

PINGUIPEDIDAE								
Parapercis binivirgata						2		295-330
Parapercis cylindrica	7	2		3	5			2-82
hexophthalma	4	13						1-15
millipunctata			V					25
schauinslandi			S	1				32-82
snyderi					4	2		46-78
sp. 6 red dots				6				70-82
sp.1	1		S	3				15-72

CHAMPSODONTIDAE								
Champsodon snyderi						6	B	230-350

PERCOPHIDAE								
Acanthaphrites sp. nov.					2	3		48-217
Bembrops filifera						3		300-350
Bembrops sp.					2			500-590
Chrionema chryseres					1			348
Pteropsaron sp.					1			225

URANOSCOPIDAE								
Uranoscopus sulphureus	1				1	1		12-208

TRICHONOTIDAE								
Trichonotus filamentosus					1			215-217

CREDIIDAE								
<i>Lianichthys</i> sp.	1							12

BLENNIIDAE								
<i>Atrosalaria</i> fuscus		2						2-4
<i>Aspidontus dussumieri</i>	1							12
<i>taeniatus</i>				3	1			8-48
<i>Cirripectes chelomatus</i>			P					
<i>polyzonus</i>	1							4
<i>stigmaticus</i>	7							3-14
<i>Ecsenius yaeyamensis</i>	3							2-15
<i>Enchelyurus kraussi</i>	6							2-15
<i>Entomacrodus striatus</i>			P					1
<i>Istiblennius edentulus</i>			P					1
<i>periophthalmus</i>			P					1
<i>Meiacanthus atrodorsalis</i>			S					4
sp.1	1							3-12
<i>Petrosirtes</i> sp.	1							12
<i>Plagiotremus rhynorhynchus</i>	2							12
<i>tapeinosoma</i>	2			1				3-45
sp.1	2		S					8-12
<i>Rhabdoblennius</i> sp.			P					1
<i>Salarias fasciatus</i>	1							4

TRIPTERYGIIDAE								
<i>Enneapterygius</i> sp.1	8		P					1-15
sp.2	2							4
<i>Helcogramma</i> sp.1	5							2-15
sp.2	2							3-8
<i>Norfolkia</i> sp.1	4							2-15

AMMODYTIDAE								
<i>Embolichthys mitsukurii</i>				3				169-217
sp.				1				203-208

CALLIONYMIDAE								
<i>Bathycallionymus formosanus</i>					1			88
<i>Calliurichthys japonicus</i>				4	12			34-208
<i>Diplogrammus goramensis</i>					1			23
<i>Foetorepus altivelis</i>					1			348
<i>Orbonymus rameus</i>			1					91
<i>Paradiplogrammus</i> sp.					1		1	47-75
<i>Pseudocalliurichthys</i> sp.			1	1				40-74
<i>Repomucenus huguenini</i>					2			70-80
sp.				1				81-85
<i>Synchiropus</i> sp.1	1							8
sp.2	1							5

GOBIIDAE								
<i>Amblyeleotris steinitzi</i>	2							4-12
<i>Amblygobius albimaculatus</i>				1				52
<i>Amblygobius bymoensis</i>		3						2-14
<i>decussatus</i>					1			19
<i>phalaena</i>	4	3	S					3-8
<i>Asterropteryx</i> sp.	1							14
<i>Bathygobius</i> sp.1			P					1
sp.2			P					1

<i>Callogobius sclateri</i>	9				1			1-37
sp.2	3				1			4-37
<i>Cryptocentrus strigilliceus</i>			P					1
<i>Ctenogobius</i> sp.	1					1		2-44
<i>Eviota</i> sp.1	5							1-15
sp.2	1							2-5
sp.A	2							2-8
sp.B	3							6-9
sp.C	3							2-8
sp.D	2							2-8
sp.E	1							8
nigriventris	1							12
<i>Fusigobius neophytus</i>	2							3-15
sp.1	3							8-10
sp.2	1							12
sp.	1							13
<i>Gnatholepis</i> sp.	1							12
scapulostigma	1							12
<i>Gobiodon citrinus</i> ?	3	1	P					1-15
multilineatus				2				8-66
okinavae ?	3							2-15
quinquestrigatus					3			16-70
sp.1	4		P	3				8-78
sp.2	3							8
sp.3	2							14
<i>Istigobius decoratus</i>	3							3-13
rigilius	5							2-15
<i>Macrodonogobius wilburi</i>	1							12
<i>Paragobiodon</i> sp.					2	1		8-67
achinocephalus					4			35-47
lacunicolus					1			55
<i>Pleurosycia</i> sp.	4							6-13
<i>Priolepis</i> sp. (semidoliatus ?)			P					1
cinctus				1			1	66-78
<i>Trimma naudei</i>	14							2-15
sp.1	4							8-14
sp.2	3							7-12
sp.3	2							12
<i>Valenciennesa longipinnis</i>	1							4
puellaris			V		1			15-84
wardi				2	6			62-88
<hr/>								
XENISTHMIDAE								
<i>Xenisthmus polyzonatus</i>	2							8-12
sp.	1							10-15
<hr/>								
MICRODESMIDAE								
<i>Ailia</i> sp. ?	1							15
<i>Gunnellichthys monostigma</i>			V					10
<i>Nemateleotris magnifica</i>			V					18-25
<i>Ptereleotris evides</i>		1	V					10-15
microlepis			S					10
<hr/>								
ACANTHURIDAE								
<i>Acanthurus albipectoralis</i>	1	5	S					1-15
blochii (ex mata)	3	11						1-15
dussumieri	3	4						2-10

Acanthurus lineatus			V				5
nigricans (ex glaucopareius)			V				20
nigricauda (ex gahn)	4	17					1-15
nigrofuscus	10	20	P				1-15
olivaceus			V				15
pyroferus			S				18
thompsoni			V				20
trioptegus			C				1
xanthopterus	2						8-15
Ctenochaetus binotatus	2	2	V				2-14
striatus	9	21					1-15
strigosus			V				10
Naso annulatus		6	V				4-12
brevirostris		1	V				4
hexacanthus		5	V				3-15
litoratus	2	12					1-15
thorpei		1	S				8
tuberosus		1	V		L		4-30
unicornis	1	10	S				1-20
vlamingii		1	V				3-14
Zebrasoma scopas	2	10					1-15
veliferum	5	13					1-15

ZANCLIDAE							
Zanclus cornutus	2	7					2-10

SIGANIDAE							
Siganus argenteus	1	10	V				2-8
punctatus	4	5					2-8

GEMPYLIDAE							
Nealotus tripes					D		st.cont.
Promethichthys prometheus					1		270

ISTIOPHORIDAE							
Istiophorus platypterus					P		longline
Makaira indica					P		longline
mazara					P		longline
Tetrapturus angustirostris					P		longline
audax					P		longline

XIPHIIDAE							
Xiphias gladius					1	P	longline

SCOMBRIDAE							
Acanthocybium solandri						P	trolled
Euthynnus affinis			V		1		10-270
Gymnosarda unicolor			V			L	40
Katsuwonus pelamis							trolled
Scomberomorus commerson			V				10
Thunnus alalunga						DP	longline
Thunnus albacares						DP	trolled
obesus						DP	longline

CENTROLOPHIDAE							
Hyperoglyphe antarctica						1	270

NONEIDAE							
Cubiceps sp.					1		79
Psenes sp.						D	st.cont.

ARIDMMATIDAE							
Ariomma sp.					1		330

ECHENEIDIDAE							
Echeneis naucrates	1		1				10-85

BOTHIDAE							
Arnoglossus japonicus					1		350
oxyrhynchus					1		215
polyspilus					2		68-300
Bothus mancus	1						4
pantherinus	1		3	6			10-85
sp.	2		2				8-78
Asterorhombus interædius	2		7	6			15-82
Engyprosope grandisquama			23				65-91
longipinnis				16			44-217
macroptera				1			85-88
sp.			1	11	1		32-228
Grammatobothus pennatus				6	3		80-93
polyophtalmus				5			71-90
Parabothus sp.					4		68-305
Taeniopsetta ocellata				1			300
Tosarhombus (novaensis)				3			169-217
sp. nova ?				1			59

PLEURONECTIDAE							
Plagiopsetta glossa					2		280-330
Samaris cristatus					3	1	63-225
macrolepis			3			1	66-85
Samariscus latus						1	67
Samariscus triocellatus	2						8-12
sp.	1						4

CYNGLOSSIDAE							
Cynoglossus interrupta (?)			1				71-75
sp.				1			78

SOLEIDAE							
Aesopia cornuta					1		70
Aseraggodes sp. ?			P				*****
Pseudaesopia japonica					1		65-68

TRIACANTHODIDAE							
Triacanthodes ethiops					1		330

BALISTIDAE							
Balistapus undulatus				V			10
Balistoides conspircillum				V			25
Pseudobalistes fuscus	3	4	1		1		3-85
Rhinecanthus aculeatus				V			10
rectangulus				V			20
Sufflamen bursa				V			15
chrysoptera	1	3					2-8

Sufflamen fraenatus			P						36
TRIDONTIDAE									
Triodon macropterus				1		1	1		200-310

MONACANTHIDAE									
Brachaluteres jacksonianus				3	1	2			50-73
Cantherines dumerilii			V						20
pardalis			V						25
Oxymonacanthus longirostris	2	3							1-5
Paraluteres prionurus	1								12
Paramonacanthus japonicus				16	8	1			34-90
Pervargor aspricaudus	1								12
janthinosoma	5	1							2-14
melanocephalus	1		V		1				12-61
Pseudaluteres nasicornis			V	4	2				30-70
Thamnaconus sp.							1		68
tesselatus							1		330

OSTRACIIDAE									
Kentrocapros flavofasciatus							1		330
Lactoria cornuta			V	1	1				15-67
diaphana				2	1				60-93
fornasini				8	6	3		2	44-92
Ostracion cubicus	8	4	V	1					3-55
meleagris	1	1			1				3-58
Tetrosomus gibbosus			V	2					20-67

TETRAODONTIDAE									
Amblyrhynchotes sp.							1		330
Arothron nigropunctatus		2	V						2-5
stellatus			S	1					10-52
Canthigaster bennetti	1	1							6
coronatus	2			2	5				10-76
janthinoptera	4								3-15
rivulatus				4	3				75-88
valentini	9	3		6	2	2			2-91
Lagocephalus sceleratus				4					61-90
Sphoeroides pachygaster							1		330
Torquigener pallimaculatus							3		60-68
Torquigener turbeculiferus				4					73-80

DIODONTIDAE									
Diodon hystrix	1	2							3-15
holacanthus				6					52-93

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