

ADDITIONAL RECORDS OF MARINE FISHES FROM KAIKOURA

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ABSTRACT

Twenty-nine marine fish species are listed with information on reference specimens, details of capture, habitat and biological observations. Ten species are recorded for the first time from the Kaikoura area and the occurrence of two species, previously reported as unverified records, is confirmed.

KEYWORDS: fish, marine, new records, distribution, Kaikoura.

INTRODUCTION

In 1979, Francis published a check-list of the marine fishes of Kaikoura recording 179 species. This paper presents additional records from Kaikoura compiled since 1979.

Specimens listed here were all obtained onboard commercial fishing vessels or were brought to the Edward Percival Field Station by local fishermen. They were identified and either preserved and placed in a curated fish collection, or photographed and discarded if badly damaged or very large. Nineteen of these species have been recorded by Francis (1979) and are included here because of the valuable data accompanying each record.

Classification used in the species list follows Greenwood et al. (1966) for the teleosts and format follows that used by Francis (1979). Unless stated otherwise, fish were captured by commercial set net. In addition, information is presented on depth, location and date of capture, body size, sex and reproductive state where available.

SPECIES LIST

Abbreviations used in this species list are as follows:

- * - species recorded for the first time from the Kaikoura area
- EPFS - Edward Percival Field Station, Kaikoura
- NMNZ - National Museum of New Zealand, Wellington
- id. - identification confirmed by; D.A. Robertson (DAR),
P.J. McMillan (PJM), C.D. Paulin (CDP),
J. Moreland (JM) or J.A.F. Garrick (JAFG).
- spec. - specimen(s)
- FL - Fork Length
- TL - Total Length
- F - Female
- M - Male
- the "Hole" - sea area about 5 km southwest of South Bay, Kaikoura
- the "Front" - sea area off the seaward end of the Kaikoura Peninsula
- the "Island" - the northern Conway Ridge, 15 km southeast of the
Haumuri Bluffs.

- Triakidae *Galeorhinus australis* (Macleay, 1881)
school or grey shark EPFS KA 509B 1
juvenile TL 52 cm, 180 m, Goose Bay 2.7.82.
- Lamnidae *Isurus oxyrinchus* Rafinesque, 1810
mako shark 1 spec. 160 m, the Hole
1.7.80.
- Echinorhinidae **Echinorhinus cookei* Pietschmann, 1928
Cook's bramble shark EPFS KA503M photo id.
JAFG 1 spec. 120 m, Haumuri Bluffs
11.12.79.
- Narkidae *Typhlonarke aysoni* (Hamilton, 1902)
blind electric ray EPFS KA508R id. JAFG 1
spec. Kaikoura 1982.
- Rhinochimaeridae **Harriota raleighana* Goode & Bean, 1895
long-nosed ghost shark EPFS KA508K id.
JAFG 1 spec. 300m, off South Bay 3.11.81.
- Chauliodontidae **Chauliodus sloanei* Bloch & Schneider, 1801
viperfish EPFS KA503G id. JM 1 spec. in
"bonita" stomach, off Kaikoura 17.7.79.
- Alepisauridae *Alepisaurus brevirostris* Gibbs, 1960
lancet fish EPFS KA508A 1 damaged spec.
intertidal, Goose Bay 5.10.81; 1 spec.,
Kaikoura 12.10.81.
- Myctophidae *Lampanyctodes hectoris* (Günther, 1876)
lantern fish EPFS KA508U id. DAR, 1 spec.,
2 spec. washed up dead, South Bay 24 to
31.5.82.

- Moridae *Pseudophycis barbata* Gunther, 1863
Southern bastard red cod NMNZ 8031 id.
CDP 1 spec. 110-150m trawl, off Kaikoura
Peninsula 11.7.77. (= *P. brevisculus* in
Francis, 1979: 66).
- Macrouridae **Coelorinchus bollonsi* McCann & McKnight 1980
rat-tail EPFS KA508Z, KA509A id. PJM
2 spec. 220m, Goose Bay, 3.7.82;
several spec. id. PJM 180-220m, Goose Bay
30.6.82 and 2.7.82.
- **Coelorinchus biclinozonalis* Arai & McMillan,
1982
rat-tail EPFS FA509C id. PJM 1 spec.
150-250m, the Front 24.10.80; 2 spec.
id. PJM 150m, Goose Bay 30.6.82.
- **Coelorinchus oliverianus* Phillipps, 1927
rat-tail EPFS KA509J id. PJM 1 spec. in
hoki stomach 150m, Goose Bay 3.7.81.
- Lepidorhynchus denticulatus* (Richardson, 1846)
javelin fish EPFS KA504J id. PJM 1 spec.,
off South Bay 22.11.80.
- Oreosomatidae **Neocyttus rhomboidalis* Gilchrist, 1906
spikey oreo dory EPFS KA505R id. PJM 1
spec. 360-430 m, the Island 29.7.81.
- Trachipteridae **Desmodema jacksonensis* Ramsay, 1881
ribbon fish EPFS KA505N photo id. CDP 1
spec. FL. 171 cm F. 110-165 m, the Hole
19.6.81.
- Apogonidae *Epigonus telescopus* (Risso, 1810)
black cardinal fish EPFS KA508L and photo
id. CDP 1 spec. 370 m, off Kaikoura
29.12.81.
- Carangidae *Trachurus declivis* (Jenyns, 1842)
jack mackerel EPFS KA509D id. DAR 1 spec.
180 m, Goose Bay 2.7.81.
- Naucrates ductor* (Linnaeus, 1758)
pilot fish EPFS KA508Q id. CDP 1 spec.
60-100 m, off Haumuri Bluffs -1.82.
- Bramidae *Brama brama* (Bonnaterre, 1788)
Ray's bream NMNZ 9660 id. CDP 2 spec. FL.
56, 57 cm 100 m, the Hole 19.7.80; 2 spec.,
off South Bay 22.12.80; 2 spec. FL. 63 cm
M., FL. 55 cm F. 150 m, the Hole 25.6.81;
EPFS KA505P and photo 1 spec. FL. 58cm
100 m, the Hole 26.6.81.

- Emmelichthyidae** *Emmelichthys nitidus* Richardson, 1845
red baitfish EPFS KA503U 1 spec. 55 m,
Goose Bay 8.1.80; EPFS KA508S photo 1 spec.,
the Hole 15.2.82.
- Pentacerotidae** **Paristiopterus labiosus* (Gunther, 1871)
giant boarfish EPFS KA505Q 1 spec. FL. 41 cm
30 m, Goose Bay 15.5.81; EPFS KA508X and
photo 1 spec., Kaikoura 16.6.82.
- Latridae** *Mendosoma lineatum* Guichenot, 1849
telescope fish NMNZ 9659 id. CDP 1 spec.
18 m, off South Bay 28.10.80.
- Percophididae** *Hemerocoetes monopterygius* (Bloch & Schneider,
1801)
opal fish NMNZ 9658 id. CDP 1 spec. in
stargazer stomach 110-130 m, the Hole
19.7.80.
- Scombridae** *Thunnus maccoyi* Castelnau, 1872
southern bluefin tuna 1 spec. 98 kg 130 m,
the Hole 1.7.80; 1 spec., the Hole 30.6.81.
- Gasterochisma melampus* Richardson, 1845
butterfly tuna EPFS KA508P id. CDP 1 spec.
of several in school of kawhai seine net,
South Bay 19.1.82.
- Centrolophidae** *Serirolella brama* (Gunther, 1860)
common or blue warehou NMNZ 12214 3
juveniles FL 2.9, 5.8, 5.9 cm in school of
1 dozen under floating rope, Goose Bay
28.4.80; EPFS KA509E photo 1 spec., FL 64 m
F. (ovary 9.3% body weight) 120 m, the Hole
30.6.80.
- Serirolella punctata* (Bloch & Schneider, 1801)
silver warehou EPFS KA509F photo 1 spec.
FL 57 cm F., (ovary 14.6% body weight)
150-250 m, the Front 25.10.80.
- **Serirolella caerulea* Guichenot, 1848
white warehou EPFS KA509G photo 1 spec. FL
55 cm M. (undeveloped) 180 m, the Front
25.10.80; several spec. 150-250 m, the Front
20-30.10.80.
- Hyperoglyphe antarctica* (Carmichael, 1818)
stoney-eye EPFS KA509H photo 1 spec. FL
50.5 cm 150-250 m, the Front 25.10.80;
1 spec. FL 96 cm F. (spent) 200 m, Goose
Bay 28.6.81.

DISCUSSION

Records of 29 species of marine fish are listed. Ten species are recorded for the first time and bring the total number of species recorded from the Kaikoura area to 189. None of the ten new records are of fish considered to be rare. The occurrence of *Isurus oxyrinchus* and *Echinorhinus* sp., previously listed as unverified by Francis, is confirmed. On-going taxonomic revisions (e.g. Macrouridae) and increased sampling effort, particularly in water of over 100 m, account for most of the new species listed.

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LITERATURE CITED

- FRANCIS, M.P. 1979. Checklist of the marine fishes of Kaikoura, New Zealand. *Mauri Ora*, 7: 63-71.
- GREENWOOD, P.H., D.E. ROSEN, S.H. WEITZMAN and G.S. MYERS, 1966. Phyletic studies of teleostean fishes, with a provisional classification of living forms. *Bulletin of the American Museum of Natural History*, 131: 339-456.