LIST OF FISH AT A PROPOSED OTEC SITE OFF KE-AHOLE POINT, HAWAII, DERIVED FROM COMMERCIAL FISH RECORDS, 1959–1978

Anthony T. Jones and Constance J. Ryan

May 1981

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ABSTRACT

Fish species landed from an area encompassing a proposed Ocean Thermal Energy Conversion (OTEC) site off Ke-ahole Point, Island of Hawaii are presented. Over 60 species of fish representing 31 families recorded in the twenty years of commercial fish landings are listed with their scientific, local Hawaiian and common name.

INTRODUCTION

The fish species known to inhabit the offshore waters in the vicinity of a proposed Ocean Thermal Energy Conversion (OTEC) site are presented. A proposed Hawaiian OTEC site (HOTEC) is located off the northwest coast of the Island of Hawaii at 20°00' N latitude and 156°10' W longitude. The site is encompassed by the Hawaii Division of Fish and Game, Fishery Area 122 (Figure 1). Information on the occurrence of fish species in the area was derived from the commercial catch records of the Hawaii Division of Fish and Game from 1959 to 1978. A complete list of fish fauna from the Hawaiian Island Archipelago can be found in Gosline and Brock (1960) and in Tinker (1978).
COMMERCIAL FISH RECORD

A list of fish families and species landed from Area 122 appear phylogentically in Table 1. In cases where the landed fish are not reported by species, the family is listed in Table 1 with the number of species known from the Hawaiian Islands. For example, when Muraenids are landed, only the family is reported to the Fish and Game by the local fishermen, therefore, Table 1 lists the family with the number of species from Hawaii. Some synonymies are included to aid the reader.

The majority of reported fish landings are recorded by the local fishermen using the Hawaiian or colloquial names. Table 2 lists the common and local Hawaiian names of the fishes included in the faunal list (Table 1). Some Hawaiian names correspond to more than one specific taxa. In cases where the fish's local name is not specific an attempt has been made to list the possible corresponding species. Some fish have more than one Hawaiian name, which often refers to various life history stages. For example, young bigeye scad (*Sedar crumenophthalmus*) are called hahalua and mature adults are called akule. The common names listed are those used by the Hawaiian Fish and Game.

All members of the subclass Elasmobranchii landed from Area 122 are recorded as mano, a local name applied to sharks. There are about twenty species of sharks reported from Hawaii (Gosline and Brock, 1960; Kato, Springer and Wagner, 1967; Tinker, 1978). Kato, Springer and Wagner (1967) provide a key to the sharks of Hawaii.

All species listed are native to Hawaii except the blue-lined
snapper (*Lutjanus kasmira*). The blue-lined snapper was introduced into Hawaiian waters in 1958 and again in 1961 (Tinker, 1978).

The occurrence of ocean moonfish, *Lampri~regius*, is rare in the Hawaiian waters with only two records according to Gosline and Brock (1960). The ocean moonfish closely resembles the Molids or ocean sunfishes which are frequently seen in Hawaii. The only report of a moonfish from the HOTEC area was in 1963.

A fish survey during the Mini-OTEC barge deployment and operation (June, 1979 to November, 1979) utilized camera and diver observations combined with interviews of commercial and charter fishermen to assess the attraction of fish to the platform and pipe. The following species were reported from the diver and camera observations: spotted triggerfish (*Canthidermis maculatus*), opelu (*Decapterus pinnulatus*), rainbow runners (*Elagatis bipinnulatus*), mahi mahi (*Coryphaena hippurus*), pilot fish (*Naucrates ductor*), white-tipped shark (*Pterolaminops longimanus*), kahala (*Seriola dumerili*), bigeye scad (*Selar crumenophthalmus*), filefish (*Aluteria scipta*), rudderfish (*Kyphosus cinerecens*). Juvenile yellow tang (*Zebrasoma flavescens*), reef blenny (*Istiblennius* spp.) and damselfish (*Chromis hanui*) were also observed (ORCA, 1980). Fishermen interviewed reported catching or sighting mahi mahi, whale shark (*Rhincodon typus*), white-tipped shark, aku (*Katsuwonus pelamis*), ahi (*Thunnus albacares*), and rare captures of ono (*Acanthocybium solandri*) (ORCA, 1980).
CONCLUSION

From the area around the proposed HOTEC site, over 60 species of fish from 31 families are represented in the twenty years of commercial fish records examined. These species are listed with local Hawaiian and common names in Table 2.

ACKNOWLEDGMENT

The authors would like to acknowledge the cooperation of the Hawaiian Division of Fish and Game in preparing this report. Special thanks to Margo Stahl who assisted in suppling the data source for this report. This work was supported by the Division of Ocean Energy Systems, U.S. Department of Energy under contract W-7405-ENG-48. We would also like to thank Dr. E. Hartwig and Dr. P. Wilde for their support.

REFERENCES


Figure 1. Map with location of Hawaiian Fish and Game Area 122 and HOTEC site at 20°00'N, 156°10'W. Contour intervals are in 500 meters. (Adapted from Wilde et al., 1980 and Hawaiian Division of Fish and Game, Fisheries Chart No. 2).
Table 1. List of the fish at the HOTEC site as derived from Hawaiian Division of Fish and Game commercial fish records, 1959 - 1978.

<table>
<thead>
<tr>
<th>MAJOR TAXA</th>
<th>SPECIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elasmobrachii [= Chondrichthys]</td>
<td>21 spp.*</td>
</tr>
<tr>
<td>ALBULIDAE</td>
<td>Albula vulpes</td>
</tr>
<tr>
<td>MURAENIDAE</td>
<td>34 spp.*</td>
</tr>
<tr>
<td>CONGRADAE</td>
<td>Conger cinereus [= C. marginatus]**</td>
</tr>
<tr>
<td>CLUPEIDAE</td>
<td>Etrumeus micropus</td>
</tr>
<tr>
<td>CHANIDAE</td>
<td>Chanos chanos</td>
</tr>
<tr>
<td>EXOCOETIDAE</td>
<td>13 spp.</td>
</tr>
<tr>
<td>BELONIDAE</td>
<td>3 spp.</td>
</tr>
<tr>
<td>HOLOCENTRIDA</td>
<td>15 spp. Myripristis spp.</td>
</tr>
<tr>
<td>LAMPRIDA</td>
<td>Lampris regius* [= Lampris guttatus]</td>
</tr>
<tr>
<td>SCORPAENIDA</td>
<td>Scorpaenopsis spp.</td>
</tr>
<tr>
<td>SERRANIDAE</td>
<td>Epinephelus quernus</td>
</tr>
<tr>
<td>KUHLIIDAE</td>
<td>Kuhlia sandvicensis</td>
</tr>
<tr>
<td>PRIACANTHIDA</td>
<td>4 spp.</td>
</tr>
<tr>
<td>APOGONIDAE</td>
<td>Apogon kallopterus [= A. snyderi]</td>
</tr>
<tr>
<td>MAJOR TAXA</td>
<td>SPECIES</td>
</tr>
<tr>
<td>------------</td>
<td>---------</td>
</tr>
</tbody>
</table>
| CARANGIDAE | *Scomberoides lysan*  
[= *S. scanti-petri*]  
[= *Chlorinemus tolooparah*]  
*Elagatis bipinnulatus*  
*Seriola dumerili*  
*Decapterus spp.*  
*Selar crumenophthalmus*  
[= *Trachurus crumenophthalmus*]  
*Alectis spp.*  
*Gnathanodon speciosus*  
[= *Caranx speciosus*]  
*Caranx mate*  
*C. melampygus* |
| CORYPHAENIDAE | *Coryphaena hippurus* |
| LUTJANIDAE | *Pristipomoides seibodii*  
*P. zonatus*  
[= *Rooseveltiia brighami*]  
[= *Tropidius zonatus*]  
*P. filamentosus*  
[= *P. microlepis*]  
*Etelis marshi*  
*E. carbunculus*  
[= *E. evurus*]  
*Aprion virescens*  
*Aphareus rutilans*  
*Lutjanus kasmira##* |
| SPARIDAE | *Monotaxis grandoculis* |
| MULLIDAE | *Mullolidichthys spp.*  
*M. pflugeri*  
*Parupeneus porphyreus*  
*P. multifasciatus* |
| KYPHOSIDAE | *Kyphosus bigibbus*  
[= *K. cinerascens*] |
<table>
<thead>
<tr>
<th>MAJOR TAXA</th>
<th>SPECIES</th>
</tr>
</thead>
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<tr>
<td>POMACENTRIDAЕ</td>
<td>Abudefduf abdominalis</td>
</tr>
<tr>
<td>MUGILIDAЕ</td>
<td>Mugil cephalus</td>
</tr>
<tr>
<td>SPHYRAENIDAЕ</td>
<td>Sphyraena barracuda</td>
</tr>
<tr>
<td></td>
<td>S. helleri</td>
</tr>
<tr>
<td>POLYNEΜIDAЕ</td>
<td>Polydactylus sexfilis</td>
</tr>
<tr>
<td>LABRIDAЕ</td>
<td>Xyrichths pavo</td>
</tr>
<tr>
<td></td>
<td>[= Iniistiu pavoninu]</td>
</tr>
<tr>
<td></td>
<td>[= Hemipteronotus pavoninu]</td>
</tr>
<tr>
<td></td>
<td>Cheilio inermis</td>
</tr>
<tr>
<td></td>
<td>Bodianus bilunulatus</td>
</tr>
<tr>
<td></td>
<td>[= B. albotaienatus]</td>
</tr>
<tr>
<td></td>
<td>Coris flavovittatus</td>
</tr>
<tr>
<td>SCARIDAЕ</td>
<td>12 spp.</td>
</tr>
<tr>
<td></td>
<td>Scarus perspicillatus</td>
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<tr>
<td>ACANTHURIDAЕ</td>
<td>Acanthurus spp.</td>
</tr>
<tr>
<td></td>
<td>A. olivaceus</td>
</tr>
<tr>
<td></td>
<td>A. triostegus</td>
</tr>
<tr>
<td></td>
<td>[= A. sandvicensis]</td>
</tr>
<tr>
<td></td>
<td>A. nigroris</td>
</tr>
<tr>
<td></td>
<td>A. dussumieri</td>
</tr>
<tr>
<td></td>
<td>Naso unicornis</td>
</tr>
<tr>
<td>SCOMBRIDAЕ</td>
<td>Acanthocybium solandri</td>
</tr>
<tr>
<td></td>
<td>Scomber japonicus</td>
</tr>
<tr>
<td></td>
<td>Euthynnus affinis</td>
</tr>
<tr>
<td></td>
<td>[= E. yaito]</td>
</tr>
<tr>
<td></td>
<td>[= E. alletteratus]</td>
</tr>
<tr>
<td></td>
<td>Thunnus thynnus</td>
</tr>
<tr>
<td></td>
<td>[= T. orientalis]</td>
</tr>
<tr>
<td></td>
<td>T. alalunga</td>
</tr>
<tr>
<td></td>
<td>T. albacares</td>
</tr>
<tr>
<td></td>
<td>[= Neothunnus macropterus]</td>
</tr>
<tr>
<td></td>
<td>T. obesus</td>
</tr>
<tr>
<td></td>
<td>[= Parathunnus sibi]</td>
</tr>
<tr>
<td></td>
<td>Katsuwonus pelamis</td>
</tr>
<tr>
<td></td>
<td>[= Euthynnus pelamis]</td>
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Table 1 continued

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<tr>
<th>MAJOR TAXA</th>
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<tr>
<td>XIPHIDAE</td>
<td>Xiphias gladius</td>
</tr>
<tr>
<td>ISTIOPHORIDAE</td>
<td>Tetrapterus angustirostris</td>
</tr>
<tr>
<td></td>
<td>T. audax</td>
</tr>
<tr>
<td></td>
<td>[= T. mitsukurii]</td>
</tr>
<tr>
<td></td>
<td>[= Makaira audax]</td>
</tr>
<tr>
<td></td>
<td>Istiophorus platypterus</td>
</tr>
<tr>
<td></td>
<td>[= I. orientalis]</td>
</tr>
<tr>
<td></td>
<td>Makaira nigricans</td>
</tr>
<tr>
<td></td>
<td>[= M. ampla]</td>
</tr>
<tr>
<td></td>
<td>M. indica</td>
</tr>
<tr>
<td></td>
<td>[= Istiompax marlina]</td>
</tr>
<tr>
<td>BALISTIDAE</td>
<td>19 spp.</td>
</tr>
</tbody>
</table>

*The number of species known from Hawaii is cited when fish records do not differentiate between species in a taxa.
**Brackets enclose recent synonmies as an aid to the reader.
#This rare species closely resembles frequently seen Molids or ocean sunfishes.
##Introduced species see text for dates and reference.
Table 2. List of local and common names of fish caught commercially at the HOTEC site.

<table>
<thead>
<tr>
<th>MAJOR TAXA</th>
<th>SPECIES NAME</th>
<th>LOCAL NAME</th>
<th>COMMON NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elasmobranchii (= Chondrichthys)</td>
<td>21 spp.*</td>
<td>Mano</td>
<td>Shark</td>
</tr>
<tr>
<td>ALBULIDAE</td>
<td>Albula vulpes</td>
<td>'O'io</td>
<td>Bone fish</td>
</tr>
<tr>
<td>MURAENIDAE</td>
<td>34 spp.*</td>
<td>Puhi</td>
<td>Moray eel</td>
</tr>
<tr>
<td>CONGRIDIDAE</td>
<td>Conger cinereus (= C. marginatus)**</td>
<td>Puhi (Tohe)</td>
<td>White eel</td>
</tr>
<tr>
<td>CLupeidae (= DUSSUMIERIDAE)</td>
<td>Etrumeus micropus</td>
<td>Makiawa</td>
<td>Sardine</td>
</tr>
<tr>
<td>CHANIDAE</td>
<td>Chanos chanos</td>
<td>Awa</td>
<td>Milk fish</td>
</tr>
<tr>
<td>EXOCOETIDAE</td>
<td>13 spp.</td>
<td>Malolo</td>
<td>Flying fish</td>
</tr>
<tr>
<td>BELONIDAE</td>
<td>3 spp.</td>
<td>Aha aha</td>
<td>Needle fish</td>
</tr>
<tr>
<td>HOLOCENTRIDA</td>
<td>15 spp.</td>
<td>Ala'ihi</td>
<td>Squirrel fish</td>
</tr>
<tr>
<td></td>
<td>15 spp.</td>
<td>Dukaniop</td>
<td>Squirrel fish</td>
</tr>
<tr>
<td></td>
<td>3 spp.</td>
<td>U'u</td>
<td>Squirrel fish</td>
</tr>
<tr>
<td></td>
<td>3 spp.</td>
<td>U'u</td>
<td>Squirrel fish</td>
</tr>
<tr>
<td></td>
<td>3 spp.</td>
<td>Pa'a'u</td>
<td>Squirrel fish</td>
</tr>
<tr>
<td>LAMPRIDAE</td>
<td>Lampris regius#</td>
<td>Opah</td>
<td>Ocean moonfish</td>
</tr>
<tr>
<td></td>
<td>Lampris guttatus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCORPAENIDAE</td>
<td>Scorpaenopsis diabolus (= S. gioniate)</td>
<td>Nohu</td>
<td>Scorpion fish</td>
</tr>
<tr>
<td></td>
<td>S. caccopia</td>
<td>Nohu</td>
<td>Scorpion fish</td>
</tr>
<tr>
<td>SERRANIDAE</td>
<td>Epinephelus quernus</td>
<td>Hapa'upu'u</td>
<td>Sea bass</td>
</tr>
<tr>
<td>KUHLLIDAE</td>
<td>Kuhlia sandvicensis</td>
<td>Aholehole</td>
<td>Mountain bass</td>
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<tr>
<td>PRIACANTHIDAE</td>
<td>4 spp.</td>
<td>Aseaowe</td>
<td>Red bigeye</td>
</tr>
<tr>
<td>APOGONIDAE</td>
<td>Apogon kallopterus (= A. anydari)</td>
<td>Upa palu</td>
<td>Cardinal fish</td>
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Table 2 continued

<table>
<thead>
<tr>
<th>MAJOR TAXA</th>
<th>SPECIES NAME</th>
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<th>COMMON NAME</th>
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<tr>
<td>CARANGIDAE</td>
<td>Scomberoides lysan</td>
<td>Lee</td>
<td>Leatherback</td>
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<td>[= S. scanti-petri]</td>
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<td></td>
</tr>
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<td>[= Chorinemus toloporah]</td>
<td></td>
<td></td>
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<td></td>
<td>Elagatis bipinnulatus</td>
<td>Kamanu</td>
<td>Hawaiian salmon</td>
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<td>Seriola dumerili</td>
<td>Kahala</td>
<td>Amberjack</td>
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<tr>
<td></td>
<td>Dacantherus macarellus †</td>
<td>'Opelu</td>
<td>Mackerel scad</td>
</tr>
<tr>
<td></td>
<td>[= D. pinnulatus]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>D. marusat †</td>
<td>'Opelu</td>
<td>Mackerel scad</td>
</tr>
<tr>
<td></td>
<td>Salar crumenophthalmus</td>
<td>Akule (Mahalau)</td>
<td>Bigeye scad</td>
</tr>
<tr>
<td></td>
<td>[= Trachurus crumenophthalmus]</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Alectris ciliaris †</td>
<td></td>
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<tr>
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<td>A. Indica †</td>
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<tr>
<td></td>
<td>Gnathodon specics †</td>
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<td></td>
</tr>
<tr>
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<td>[= Caranx speciosus]</td>
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<td></td>
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<tr>
<td></td>
<td>Caranx mate</td>
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<tr>
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<td>C. melampygus</td>
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</tr>
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<td>CORYPHAENIDAE</td>
<td>Coryphaena hippurus †</td>
<td>Mahi mahi</td>
<td>Dolphin</td>
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<td>LUTJANIDAE</td>
<td>Priistipomoloides seiboldii</td>
<td>Kalikali</td>
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<td></td>
<td>P. zonatus †</td>
<td>Ukikiki</td>
<td>Snapper</td>
</tr>
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<td>[= Rooseveltia brighamii]</td>
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<td>[= Tropidus zonatus]</td>
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<td>P. filamentous †</td>
<td>'Opakspaks</td>
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<td>Etelis marshi</td>
<td>'Ula'ula (Ehu)</td>
<td>Red Snapper</td>
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<td>E. carbonicus †</td>
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<td>Red snapper</td>
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<td></td>
<td>[= E. exurus]</td>
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<td>Aprion vegetables</td>
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<td>Aphareus ruticans</td>
<td>Uku</td>
<td>Gray snapper</td>
</tr>
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<td>Lutjanus kasmiri †</td>
<td>Lehi</td>
<td>Snapper</td>
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<td></td>
<td>Taape</td>
<td>Blue-lined snapper</td>
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<td>SPARIDAE</td>
<td>Monotaxis grandoculis</td>
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<td>Porgy</td>
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<td>Goat fish</td>
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<td>Weke'ula</td>
<td>Red goat fish</td>
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<tr>
<td></td>
<td>[= M. auriflamma]</td>
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<td></td>
</tr>
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<td>M. pfluegeri †</td>
<td>Weke'ula</td>
<td>Red goat fish</td>
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<td>Parupeneus porphyreus</td>
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<td>Red goat fish</td>
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<td>P. multifasciatus</td>
<td>Kumu</td>
<td>Goat fish</td>
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<td></td>
<td></td>
<td>Moano</td>
<td>Goat fish</td>
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<td>Nenue</td>
<td>Rudder fish</td>
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<td>[= K. cingrescens]</td>
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<td>MAJOR TAXA</td>
<td>SPECIES NAME</td>
<td>LOCAL NAME</td>
<td>COMMON NAME</td>
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</tr>
<tr>
<td>POMACENTRIDAE</td>
<td>Abudefduf abdominalis</td>
<td>Maomao</td>
<td>Sargent major</td>
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<tr>
<td>MUGILIDAE</td>
<td>Mugil cephalus</td>
<td>'Ama’ama</td>
<td>Mullet</td>
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<tr>
<td>Sphyraenidae</td>
<td>Sphyraena barracuda</td>
<td>Kaku</td>
<td>Barracuda</td>
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<tr>
<td>Polydactylus</td>
<td>Polydactylus semilus</td>
<td>Moi</td>
<td>Thread-fish</td>
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<tr>
<td>Labridae</td>
<td>43 spp.</td>
<td>E'a</td>
<td>Wrasse</td>
</tr>
<tr>
<td>Scaridae</td>
<td>12 spp.</td>
<td>Laenihí</td>
<td>Peacock wrasse</td>
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<tr>
<td>Scarus paraplicillatus</td>
<td></td>
<td>E'a</td>
<td>Spot wrasse</td>
</tr>
<tr>
<td>Acanthuridae</td>
<td>Acanthurus olivaceus</td>
<td>Na'ena'a</td>
<td>Orange spot tang</td>
</tr>
<tr>
<td>A. triostegus</td>
<td>[= A. sand vicensis]</td>
<td>Manini</td>
<td>Convict tang</td>
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<tr>
<td>A. nigrota</td>
<td></td>
<td>Maiko</td>
<td>Surgeon fish</td>
</tr>
<tr>
<td>A. dussumieri</td>
<td></td>
<td>Palani</td>
<td>Surgeon fish</td>
</tr>
<tr>
<td>A. xanthopterus</td>
<td></td>
<td>Pualu</td>
<td>Surgeon fish</td>
</tr>
<tr>
<td>A. mata #</td>
<td></td>
<td>Pualu</td>
<td>Surgeon fish</td>
</tr>
<tr>
<td>Naso unicorne</td>
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<td>Kala</td>
<td>Surgeon fish</td>
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<tr>
<td>Scombridae</td>
<td>Acanthocybium solandri</td>
<td>Ono</td>
<td>Wahoo</td>
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<td>Scomber japonicus</td>
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<td>Saba</td>
<td>Japanese mackerel</td>
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<tr>
<td>Euthynnus affinis</td>
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<td>Kawa kawa</td>
<td>Little tuna</td>
</tr>
<tr>
<td>[= E. yeito]</td>
<td></td>
<td>Ahi</td>
<td>Bluefin tuna</td>
</tr>
<tr>
<td>[= E. alletteratus]</td>
<td></td>
<td>Ahi pahala</td>
<td>Albacore tuna</td>
</tr>
<tr>
<td>Thunnus thynnus</td>
<td>[= T. orientalis]</td>
<td>Ahi</td>
<td>Yellowfin tuna</td>
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<tr>
<td>T. alalunga</td>
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<td>Ahi</td>
<td>Bixeve tuna</td>
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<tr>
<td>T. albicarates</td>
<td>[= Neothunnus macropterus]</td>
<td>Ahi</td>
<td>Skipjack tuna</td>
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<tr>
<td>T. obesus</td>
<td>[= Paranthunnus sibil]</td>
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<tr>
<td>Eutawunus pelamis</td>
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<td>Ahi</td>
<td></td>
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<tr>
<td>[= Euthynnus pelamis]</td>
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Table 2 continued

<table>
<thead>
<tr>
<th>MAJOR TAXA</th>
<th>SPECIES NAME</th>
<th>LOCAL NAME</th>
<th>COMMON NAME</th>
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<tbody>
<tr>
<td>XIPHIIDAE</td>
<td>Xi:phias gladius</td>
<td>Aʻu</td>
<td>Broadbill swordfish</td>
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<tr>
<td>ISTIOPHORIDAE</td>
<td>Tetrapterus angustirostris</td>
<td>Aʻu</td>
<td>Short-nosed spearfish</td>
</tr>
<tr>
<td></td>
<td>T. audax ([= T. mitsukurii])</td>
<td>Aʻu</td>
<td>Striped marlin</td>
</tr>
<tr>
<td></td>
<td>Istiophorus platypterus (= I. orientalis)</td>
<td>Au-lepe</td>
<td>Sailfish</td>
</tr>
<tr>
<td></td>
<td>M. nigricans (= M. ampla)</td>
<td>Aʻu</td>
<td>Pacific blue marlin</td>
</tr>
<tr>
<td></td>
<td>M. indica (= Iatiorpax marlina)</td>
<td>Aʻu</td>
<td>Black marlin</td>
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<tr>
<td></td>
<td>19 spp.</td>
<td>Bumuhumu</td>
<td>Trigger fish</td>
</tr>
</tbody>
</table>

*The number of species known from Hawaii is cited when fish records do not differentiate between species in a taxa.

**Brackets enclose recent synonomies as an aid to the reader.

#Closely related species with same local name.

##This rare species closely resembles frequently seen Molids or ocean sunfishes.

$Introduced species see text for dates and reference.