# DEPARTMENT OF COMMERCE

### National Oceanic and Atmospheric Administration

### 50 CFR Part 679

[Docket No. 031218322–3322–01; I.D. 111903A]

#### RIN 0648-AR73

### Fisheries of the Exclusive Economic Zone off Alaska; Skates Management in the Groundfish Fisheries of the Gulf of Alaska

**AGENCY:** National Marine Fisheries Service (NMFS), National Oceanic and Atmospheric Administration (NOAA), Commerce.

**ACTION:** Proposed rule; request for comments.

**SUMMARY:** NMFS issues a proposed rule that would implement Amendment 63 to the Fishery Management Plan for Groundfish of the Gulf of Alaska (FMP). Amendment 63, if approved, would move skates from the "other species" list to the "target species" list in the FMP. By listing skates as a target species, a directed fishery for skates in the Gulf of Alaska (GOA) may be managed to reduce the potential for overfishing skates. This action is intended to promote the goals and objectives of the Magnuson-Stevens Fishery Conservation and Management Act (Magnuson-Stevens Act), the FMP, and other applicable laws.

**DATES:** Comments must be received by February 20, 2004.

ADDRESSES: Comments may be sent to Sue Salveson, Assistant Regional Administrator, Sustainable Fisheries Division, Alaska Region, NMFS, P.O. Box 21668, Juneau, AK 99802, Attn: Lori Durall, or delivered to room 420 of the Federal Building, 709 West 9th Street, Juneau, AK. Comments may also be sent via facsimile (fax) to 907–586-7557. Comments will not be accepted if submitted via e-mail or Internet. Copies of the Environmental Assessment/ Regulatory Impact Review/Initial Regulatory Flexibility Analysis (EA/ RIR/IRFA) prepared for the proposed rule may be obtained from the same address.

FOR FURTHER INFORMATION CONTACT: Melanie Brown, 907–586–7228 or melanie.brown@noaa.gov.

**SUPPLEMENTARY INFORMATION:** The groundfish fisheries in the exclusive economic zone of the GOA are managed under the FMP. The North Pacific Fishery Management Council (Council) prepared the FMP under the authority of

the Magnuson-Stevens Act, 16 U.S.C. 1801, *et seq.* Regulations implementing the FMP appear at 50 CFR part 679. General regulations governing U.S. fisheries also appear at 50 CFR part 600.

The Council has submitted Amendment 63 for review by the Secretary of Commerce, and a Notice of Availability of the FMP amendment was published in the **Federal Register** on December 2, 2003 (68 FR 67390), with comments on the FMP amendment invited through February 2, 2004.

Comments may address the FMP amendment, the proposed rule, or both, but must be received by February 2, 2004, to be considered in the approval/ disapproval decision on the FMP amendment. All comments received by that time, whether specifically directed to the FMP amendment or to the proposed rule, will be considered in the approval/disapproval decision on the FMP amendment.

#### Background

Amendment 63 is intended to respond to concerns that the rapidly developing skate fishery in the GOÅ may result in overfishing of skates. Amendment 63 to the FMP would move skates from the "other species" list to the "target species" list, allowing for the management of skates as a target species. Skates currently are managed as part of the other species complex with sharks, sculpins, octopus, and squid. The total allowable catch limit (TAC) for this complex is five percent of the aggregate of all TACs for groundfish of the GOA. Target species TACs are established for an individual species or species group and NMFS manages the directed fishery for each species to avoid exceeding the specified TACs. TACs usually are set at or below the acceptable biological catch (ABC) amount, which are below the overfishing levels (OFLs) for each target species or species group. The other species complex does not have an OFL or ABC amount due to the lack of biomass information for most of the species in the complex.

In 2003, a directed fishery for skates rapidly developed in the GOA. The 2003 skate harvest was 3,042 metric tons (mt), compared to 782 mt of skates harvested in 2002. Because skates are managed within the other species complex, the full TAC for the other species complex is available for a directed fishery for skates.

To reduce the potential for overfishing, the Council recommended that skates be managed as a target species. As a target species, OFL, ABC, and TAC amounts for skates would be established by annual harvest specifications, allowing for more effective management of skates based on the best available scientific information. The development of OFL, ABC, and TAC amounts for the 2004 harvest specifications for skates would be based on scientific survey and harvest information from 2003 and prior years. Managing a directed fishery for skates so that OFL, ABC, and TAC amounts are not exceeded would reduce the potential for overfishing and would meet the conservation objectives of the Magnuson-Stevens Act.

This action proposes to implement Amendment 63. This action also would revise Table 10 of 50 CFR 679 to establish maximum retainable amounts (MRAs) of skates in other directed groundfish fisheries and to establish MRAs for other target groundfish in the directed fishery for skates. The listing of species groups under footnote 7 to the table for the other species complex would be revised to remove skates from the listing. A footnote 11 would be added to the MRAs column and row for skates to identify the managed skate species and the reporting codes. These changes are necessary to properly manage the retention of skates incidentally caught in other directed groundfish fisheries and the retention of other groundfish taken incidentally in the directed fishery for skates.

The definition of other species in the regulations also would be revised to reference 50 CFR 679.20(e) for Tables 10 and 11 instead of 50 CFR 679.20(c), which does not apply to Tables 10 and 11.

# Classification

NMFS has not yet determined whether the amendment that this proposed rule would implement is consistent with the national standards of the Magnuson-Stevens Act and other applicable laws. In making that determination, NMFS will take into account the data, views, and comments received during the comment period.

This proposed rule has been determined to be not significant for the purposes of Executive Order 12866.

NMFS prepared an Initial Regulatory Flexibility Analysis (IRFA) which describes any adverse impacts this proposed rule, if adopted, would have on directly regulated small entities. Because this action is closely linked to the annual harvest specifications, the EA/RIR/IRFA (see **ADDRESSES**) prepared for this action also analyzes the action to establish annual harvest specifications for the groundfish fisheries of the BSAI and GOA. The IRFA identifies two FMP change alternatives (no action and move skates to the target list), and three specifications options that may be considered with the action alternative. The specification options will be further analyzed and considered in separate rulemaking for the annual harvest specifications to be completed in early 2004. A summary of the IRFA, as it pertains to this action, follows:

Amendment 63 amends the GOA FMP by moving skate species from the "other species" list and adding it to the "target species" list. Skates would receive their own OFL, ABC, and TAC. This action is proposed to give fishery managers better tools to protect the skate biomass in the face of a directed fishery that developed rapidly in 2003.

The objective of this action is to increase the control managers have over the fishing mortality of skates, to prevent overfishing of skates, to maintain healthy skate stocks, and to make a sustainable fishery for skates more likely.

The legal basis for this action is found in the Magnuson-Stevens Act and in the GOA groundfish FMP promulgated pursuant to that act.

The IRFA for this action ascertained that 933 hook-and-line catcher vessels, 15 hook-and-line catcher-processors, 117 trawl catcher vessels, and four trawl catcher-processors, might be directly regulated by this action. All of these vessels are considered "small entities" as defined by the RFA. In 2001, average Alaskan groundfish revenues for the small entities were \$70,000 for hookand-line catcher vessels, \$1.83 million for hook-and-line catcher-processors, \$350,000 for trawl catcher vessels, and \$1.8 million for trawl catcherprocessors.

This action has the potential to limit harvests and fishery gross revenues in the short run to protect the biomass and preserve the fishery for the long term. The actual impacts would depend on the way the Council chooses to incorporate skates into the specifications, and on the annual specifications recommendations made by the Council.

Nothing in the proposed action would result in changes in reporting or recordkeeping requirements.

The analysis did not reveal any Federal rules that duplicate, overlap, or conflict with the proposed action.

The IRFA evaluated a no-action alternative to the preferred alternative. Under this no-action alternative, skates would have remained in the "other species" list. Since the "other species" complex TAC in 2003 (11,260 mt) is larger than the projected OFL for skates indicated in the EA (10,322 mt), harvest in a targeted skate fishery could drive down the skate biomass and reduce its reproductive potential. While revenues from the fishery would be higher in the short run, they would be lower in the longer run, as a reduced biomass supports a smaller (or perhaps no) commercial skate fishery. Thus, while this alternative may have imposed fewer short run restrictions on small fishing operations, it did not meet the objectives of providing protection to the

skate stocks in the GOA and thereby protecting the future of a sustainable fishery.

### List of Subjects in 50 CFR Part 679

Alaska, Fisheries, Recordkeeping and reporting requirements.

Dated: December 30, 2003.

# Rebecca Lent,

Deputy Assistant Administrator for Regulatory Programs, National Marine Fisheries Service.

For reasons set out in the preamble, 50 CFR part 679 is proposed to be amended as follows:

# PART 679—FISHERIES OF THE EXCLUSIVE ECONOMIC ZONE OFF ALASKA

1. The authority citation for part 679 continues to read as follows:

Authority: 16 U.S.C. 773 *et seq.*, 1801 *et seq.*, and 3631 *et seq.*; Title II of Division C, Pub. L. 105–277; Sec. 3027, Pub L. 106–31, 113 Stat. 57; 16 U.S.C. 1540(f).

2. In §679.2, the definition "Other species" is revised to read as follows:

#### §679.2 Definitions.

Other species is a category that consists of groundfish species in each management area that are not specified as target species (see Tables 10 and 11 to this part pursuant to § 679.20(e)).

3. Table 10 to part 679 is revised to read as follows: BILLING CODE 3510-22-S

		Other species	20	0	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	na <sup>9</sup>	20
		Skates	20	0	20	20	20	20	20	20	20	20	20	20	20	20	20	20	na <sup>9</sup>	20	20
		Aggregated forage fish	2	2	5	2	2	2	2	2	5	2	2	2	5	2	2	2	2	2	5
ages		Atka mackerel	20	0	20	20	20	20	20	20	na°	20	20	20	20	20	20	20	20	20	20
e Percent		DSR SEO	10	0	-	-	-		1	1	10	10			10	-	-	na <sup>9</sup>	10	10	10
Retainabl	SE	SR/RE ERA <sup>(1)</sup>	Ξ	0	2	7	7	7	7	na°	(1)	Ξ	7	7	Ē	7	7	7	(1)	(I)	Ξ
Table 10 to Part 679Gulf of Alaska Retainable Percentages	INCIDENTAL CATCH SPECIES	Aggregated rockfish <sup>(8)</sup>	s	0	15	15	15	15	15	15	5	5	15	15	5	15	15	15	s	5	Ş
679Gul	DENTAL C	Sablefish	1	0	7	7	7	7	7	7		1		7	1	7	7	7	1	1	1
le 10 to Part	INCI	Arrowtooth	35	na <sup>9</sup>	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
Tabl	-	SW flat <sup>(3)</sup>	20	0	20	20	20	20	20	20	20	20	20	20	na <sup>9</sup>	20	20	20	20	20	20
		Flathead sole	20	0	na°	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
		Rex sole	20	0	20	na <sup>9</sup>	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
		DW flat <sup>(2)</sup>	20	0	20	20	20	20	20	20	20	20	20	na°	20	20	20	20	20	20	20
		Pacific cod	na9	5	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
		Pollock	20	5	20	20	20	20	20	20	20	na9	20	20	20	20	20	20	20	20	20
	BASIS SPECIES	Species	Pacific cod	Arrowtooth	Flathead sole	Rex sole	Northern rockfish	Pacific ocean perch	Thornyhead	Shortraker/ rougheye <sup>(1)</sup>	Atka mackerel	Pollock	Sablefish	Flatfish, deep water <sup>(2)</sup>	shallow	Rockfish, other <sup>(4)</sup>	Rockfīsh, pelagic <sup>(5)</sup>	Rockfish, DSR-SEO		scies (7)	Aggregated amount of non-groundfish species
	BASIS	Code	110	121	122	125	136	141	143	152/ 151	193	270	710	Flatfish,	Flatfish, shallow water <sup>(3)</sup>	Rockfish	Rockfish	Rockfish	Skates <sup>(11)</sup>	Other species (7)	Aggregat non-grou species

Not	Notes to Table 10 to Part 679	79				
1	Shortraker/rougheye rockfish	ish				
	SR/RE	shortraker/rougheye rockfish (171)	(1)			
· .		shortraker rockfish (152)				
		rougheye rockfish (151)				
	SR/RE ERA	A shortraker/rougheye rockfish in the Eastern Regulatory Area.	the Eastern Regulatory	Area.		
	Where numerical percentage is not indicated,	ge is not indicated, the retainable percent	age of SR/RE is includ	the retainable percentage of SR/RE is included under Aggregated Rockfish	.ckfish	
2	Deep-water flatfish	Dover sole, Greenland turbot, and deep-sea sole	id deep-sea sole			
3	Shallow water flatfish	Flatfish not including deep water flatfish, flathead sole, rex sole, or arrowtooth flounder	r flatfish, flathead sole,	, rex sole, or arrowtooth	flounder	
4	Other rockfish	Western Regulatory Area	me	means slope rockfish and demersal shelf rockfish	emersal shelf rockfish	
		Central Regulatory Area				
		West Yakutat District				
	· · · ·	Southeast Outside District	me	means slope rockfish		
				Slope rockfish		
		<u>S</u> . <u>aurora</u> (aurora)	S. variegatus (harlequin)	luin)	<u>S. brevispinis</u> (silvergrey)	
		S. melanostomus (blackgill)	<u>S. wilsoni</u> (pygmy)		S. diploproa (splitnose)	
		S. paucispinis (bocaccio)	S. babcocki (redbanded)	ded)	S. saxicola (stripetail)	
~.		S. goodei (chilipepper)	S. proriger (redstripe)	e)	S. miniatus (vermilion)	
		S. crameri (darkblotch)	S. zacentrus (sharpchin)	hin)	<u>S</u> . reedi (yellowmouth)	
		S. elongatus (greenstriped)	S. jordani (shortbelly)	y)		
			ope rockfish also inclu	Slope rockfish also includes <u>S. polyspinous</u> . (Northern)	rthern)	
5	Pelagic shelf rockfish	S. ciliatus (dusky)	<u>S</u> . <u>entomelas</u> (widow)	w)	S. flavidus (yellowtail)	
9	Demersal shelf	S. pinniger (canary)	S. maliger (quillback)	k)	S. ruberrimus (yelloweye)	
		S. nebulosus (china)	S. <u>helvomaculatus</u> (rosethorn)	rosethorn)		
		S. caurinus (copper)	S. nigrocinctus (tiger)	r)		
		DSR-SEO = Demersal shelf rockfish in the Southeast Outside District	cfish in the Southeast C	Dutside District		

Addition     means rookitish of the genera <u>Sebastics</u> and <u>Sebastiolobus</u> defined at § 679.2 except in:       Southeast Outside District (SEO)     where DSR is a separate category for those species may be recentage       Eastern Regulatory Area (ERA)     where SR/RE is a separate category for those species may hor applicable       radge fish (all species of the following families)     mot applicable       Bristlemouths, lightfishes, and anglemouths (family <u>Conostomatidae</u> )     percentage       Capelin smet (family <u>Osmeridae</u> )     percentage       Deep-sea smelts (family <u>Osmeridae</u> )     model (family <u>Osmeridae</u> )       Capelin smet (family <u>Osmeridae</u> )     fundel (family <u>Osmeridae</u> )       Derefice Sand fash (family <u>Osmeridae</u> )     fundel (family <u>Osmeridae</u> )       Pacific Herring (family <u>Osmeridae</u> )     fundel (family <u>Osmeridae</u> )       Pacific Sand fash (family <u>Osmeridae</u> )     perclic sand lance (family <u>Osmeridae</u> )       Pacific Sand fash (family <u>Osmeridae</u> )     perclic sand lance (family <u>Osmeridae</u> )       Pacific Sand fash (family <u>Osmeridae</u> )     perclic sand sand sand sharnys (family <u>Stichaeidae</u> )       Pacific Sand fash (family <u>Osmeridae</u> )     perclic sand sand steanse (70)       Pacific Sand sectors     s and Groups	7	Other species	sculpins octopus		sharks	squid
Southeast Outside District (SEO)     N/A   Eastern Regulatory Area (ERA)     N/A   not applicable     Aggregated for a price of the following families)     Bristlemouths, lightfishes, and anglemouths (family Gonostomatidae)     Capelin smelt (family <u>Osmeridae</u> )     Deep-sea smells (family <u>Osmeridae</u> )     Deep-sea smells (family <u>Osmeridae</u> )     Munels (family <u>Deneridae</u> )     Deep-sea smells (family <u>Osmeridae</u> )     States Species and Groups and Shannys (family <u>States (family Osmeridae</u> )     Pacific Sand fish (family <u>Clupeidae</u> )     Pacific Sand lance (family <u>Osmeridae</u> )     Pacific Sand lance (family <u>Deneridae</u> )     Pacific Sand fish (family <u>Deneridae</u> )     Pacific Sand lance (family <u>Deneridae</u> )     Pacific Sand lance (family <u>Deneridae</u> )     States Species and Groups     Big States (702)     Dother States (701)	∞	Aggregated rockfish	means rockfish of the genera <u>Sebastes</u> and <u>Sebast</u>	b <u>estolobus</u> defined at § 679.2 exce	ept in:	
N/A   Eastern Regulatory Area (ERA)     N/A   not applicable     Aggregated forage fish (all species of the following families)     Bristlemouths, lightfishes, and anglemouths (family <u>Gonostomatidae</u> )     Capelin smelt (family <u>Dathylagidae</u> )     Deep-sea smelts (family <u>Bathylagidae</u> )     Deep-sea smelts (family <u>Dathylagidae</u> )     Eulachon smelt (family <u>Dathylagidae</u> )     Deep-sea smelts (family <u>Dathylagidae</u> )     Pacific herring (family <u>Ammodytidae</u> )     Pacific herring (family <u>Ammodytidae</u> )     Pacific sand lance (family <u>Ammodytidae</u> )     Pricklebacks, war-bonnets, celblennys, cockscombs and Shannys (famil)     States Species and Groups     Big Skates (701)     Longnose Skates (701)			Southeast Outside District (SEO)	where DSR is a separate ca	ttegory for those species m	arked with a numerical
N/A not applicable   Aggregated forage fish (all species of the following families)   Bristlemouths, lightfishes, and anglemouths (family <u>Genostomatidae</u> )   Exploring (family <u>Osmeridae</u> )   Capelin smelt (family <u>Osmeridae</u> )   Deep-sea smelts (family <u>Osmeridae</u> )   Derp-sea smelts (family <u>Dathylagidae</u> )   Derp-sea smelts (family <u>Osmeridae</u> )   Derp-sea smelts (family <u>Osmeridae</u> )   Datemfishes (family <u>Dathylagidae</u> )   Startenfishes (family <u>Osmeridae</u> )   Pacific Sand fish (family <u>Arteophidae</u> )   Pacific Sand fish (family <u>Osmeridae</u> )   Startes Species and Groups   Startes Species and Groups   Big Startes (702)   Dother Startes (700)			Eastern Regulatory Area (ERA)	where SR/RE is a separate percentage	category for those species r	marked with a numerical
Aggregated     Aggregated       Frage     fisitlemouths, lightfishes, and anglemouths (family Gonostomatidae)       Bristlemouths, lightfishes, and anglemouths (family Gonostomatidae)     Explain smelt (family Gonestomatidae)       Capelin smelt (family Gameridae)     Explain smelt (family Gameridae)       Deep-sea smelts (family Gameridae)     Eulachon smelt (family Gameridae)       Dundels (family Wyctophidae)     Eulachon smelt (family Victophidae)       Krill (order Euphausiacea)     Laternfishes (family Myctophidae)       Pacific Sand fish (family Trichodontidae)     Pacific Sand fish (family Mictophidae)       Pacific Sand fish (family Gamery Constratidae)     Pacific Sand fish (family Stichaeidae)       States Spectra and Groups     States Spectra and Groups       Big Skates (702)     Longones Skates (701)       Other Skates (70)     Other Skates (70)	6	N/A	not applicable			
Bristlemouths, lightfishes, and anglemouths (family Gonostomatidae)     Capelin smelt (family <u>Osmeridae</u> )     Deep-sea smelts (family <u>Osmeridae</u> )     Deep-sea smelts (family <u>Osmeridae</u> )     Deep-sea smelts (family <u>Osmeridae</u> )     Eulachon smelt (family <u>Dentidae</u> )     Eulachon smelt (family <u>Osmeridae</u> )     Demetis (family <u>Pholidae</u> )     Krill (order <u>Euphausiacea</u> )     Latentfishes (family <u>Osmeridae</u> )     Pacific herring (family <u>Osmeridae</u> )     Pacific herring (family <u>Armodortidae</u> )     Pacific sand fak (family <u>Armodortidae</u> )     Pacific Sand lance (family <u>Armodortidae</u> )     P	10	Aggregated forage fish (all sp	becies of the following families)			
Capelin smelt (family Osmeridae)     Deep-sea smelts (family Dathylagidae)     Deep-sea smelts (family Dathylagidae)     Eulachon smelt (family Dolldae)     Gunnels (family Dolldae)     Gunnels (family Voter Euphausiacea)     Krill (order Euphausiacea)     Datenfishes (family Voter)     Pacific herring (family Voter)     Pacific herring (family Voter)     Pacific stand fish (family Trichodontidae)     Pacific Sand fish (family Voter)     Pacific		Bristlemouths		idae)		209
Deep-sea smelts (family Bathylagidae)     Eulachon smelt (family <u>Osmeridae</u> )     Eulachon smelt (family <u>Osmeridae</u> )     Gumels (family <u>Pholidae</u> )     Krill (order Euphausiacea)     Laternfishes (family <u>Myctophidae</u> )     Pacific herring (family <u>Myctophidae</u> )     Pacific stand fish (family <u>Myctophidae</u> )     Pacific Sand fish (family <u>Myctophida</u>	-	Capelin smelt	(family <u>Osmeridae</u> )			516
Eulachon smelt (family Osmeridae)     Gunnels (family <u>Pholidae</u> )     Krill (order <u>Euphausiacea</u> )     Latenfishes (family <u>Myctophidae</u> )     Pacific herring (family <u>Myctophidae</u> )     Pacific berring (family <u>Myctophidae</u> )     Pacific Sand fish (family <u>Clupeidae</u> )     Pacific Sand fish (family <u>Mictophidae</u> )     Surf suelt (family <u>Mictophidae</u> )     States Species and Groups     Big States (701)     Other States (700)		Deep-sea sme	lts (family <u>Bathylagidae</u> )			773
Gunnels (family <u>Pholidae</u> )     Krill (order <u>Euphausiacea</u> )     Laternfishes (family <u>Mvctophidae</u> )     Dacific herring (family <u>Mvctophidae</u> )     Pacific herring (family <u>Mvctophidae</u> )     Pacific sand fish (family <u>Trichodontidae</u> )     Pacific Sand fish (family <u>Trichodontidae</u> )     Pacific Sand lance (family <u>Amnodytidae</u> )     Pacific Sand lance (family <u>Stichae</u> )     Pa		Eulachon sme	lt (family <u>Osmeridae</u> )			511
Krill (order Euphausiacea)     Laternfishes (family <u>Muctophidae</u> )     Pacific herring (family <u>Ulupeidae</u> )     Pacific Sand fish (family <u>Vriehodotidae</u> )     Pacific Sand lance (family <u>Ammodytidae</u> )     Pricklebacks, war-bonnets, eelblennys, cockscombs and Shannys (family <u>Stichaeidae</u> )     Surf smelt (family <u>Osmeridae</u> )     Skates Species and Groups     Big Skates (702)     Other Skates (701)		Gunnels (fami	ly <u>Pholidae</u> )			207
Laternfishes (family <u>Myctophidae</u> )     Pacific herring (family <u>Clupeidae</u> )     Pacific Sand fish (family <u>Trichodontidae</u> )     Pacific Sand fish (family <u>Ammodytidae</u> )     Pricklebacks, war-bonnets, eelblennys, cockscombs and Shannys (family <u>Stichaeidae</u> )     Surf smelt (family <u>Osmeridae</u> )     States Species and Groups     Big Skates (702)     Longnose Skates (701)     Other Skates (700)		Krill (order <u>E</u> 1	uphausiacea)			800
Pacific herring (family <u>Clupeidae</u> )     Pacific Sand fish (family <u>Trichodontidae</u> )     Pacific Sand lance (family <u>Ammodytidae</u> )     Pricklebacks, war-bonnets, eelblennys, cockscombs and Shannys (family <u>Stichaeidae</u> )     Surf smelt (family <u>Osmeridae</u> )     States Species and Groups     Big Skates (702)     Longnose Skates (701)     Other Skates (700)		Laternfishes (1	family <u>Myctophidae</u> )			772
Pacific Sand fish (family <u>Trichodontidae</u> )     Pacific Sand lance (family <u>Ammodytidae</u> )     Pricklebacks, war-bonnets, eelblennys, cockscombs and Shannys (family <u>Stichaeidae</u> )     Surf smelt (family <u>Osmeridae</u> )     Skates Species and Groups     Big Skates (702)     Longnose Skates (701)     Other Skates (700)		Pacific herring	g (family <u>Clupeidae</u> )			235
Pacific Sand lance (family <u>Anmodytidae</u> )     Pricklebacks, war-bonnets, celblennys, cockscombs and Shannys (family <u>Stichaeidae</u> )     Surf smelt (family <u>Osmeridae</u> )     Skates Species and Groups     Big Skates (702)     Longnose Skates (701)     Other Skates (700)		Pacific Sand f	ish (family <u>Trichodontidae</u> )			206
Pricklebacks, war-bonnets, eelblennys, cockscombs and Shannys (family <u>Stichaeidae</u> )     Surf smelt (family <u>Osmeridae</u> )     Skates Species and Groups     Big Skates (702)     Longnose Skates (701)     Other Skates (700)		Pacific Sand l	ance (family <u>Ammodytidae</u> )			774
Surf smelt (family Osmeridae)     Skates Species and Groups     Big Skates (702)     Longnose Skates (701)     Other Skates (700)		Pricklebacks,	war-bonnets, eelblennys, cockscombs and Shannys	s (family <u>Stichaeidae</u> )		208
Skates Species	а.	Surf smelt (fa	mily <u>Osmeridae</u> )			515
Big Skates (702)     Longnose Skates (701)     Other Skates (700)	11	Skates Species and Groups				
Longnose Skates (701) Other Skates (700)		Big Skates (7)	)2)			
Other Skates (700)		Longnose Ska	tes (701)			
		Other Skates (	(00 <i>L</i> )			