Supplementary materials of the Fish and Fisheries paper 2011 resubmission

June 25, 2011

1 Supplementary tables

Management	Country	Stock	Scientific name	Taxonomic order	Trophic Level	Methodology	Timespan	Current year	B ratio	U ratio
AFMA	Australia	Bight redfish Southeast Australia	Centroberyx gerrardi	Beryciformes	4.08	Integrated	1958-2007			
AFMA	Australia	Austrana Patagonian toothfish Macquarie Island	$Dissostichus\ eleginoides$	Perciformes	3.96	Analysis Integrated Analysis	1975-2010	2010	2.3	0.19
AFMA	Australia	New Zealand ling Western half of Southeast Australia	$Genypterus\ blacodes$	Ophidiiformes	4.34	Integrated Analysis	1968-2007			
AFMA	Australia	New Zealand ling Eastern half of Southeast Australia	Genypterus blacodes	Ophidiiformes	4.34	Integrated Analysis	1968-2007	2007	0.59	2.2 *
AFMA	Australia	Orange roughy Cascade Plateau	$Hop lost ethus\ at lanticus$	Beryciformes	3.98	Integrated Analysis	1987-2006			
AFMA	Australia	Orange roughy Southeast Australia	$Hop lost ethus\ at lanticus$	Beryciformes	3.98	Integrated Analysis	1978-2007	2007	0.52	0.29 *
AFMA	Australia	Jackass morwong Southeast Australia	$Ne madactylus\ macropterus$	Perciformes	3.41	Integrated Analysis	1913-2007	2007	0.31	1.8 *
AFMA	Australia	Tiger flathead Southeast Australia	Neoplatycephalus richardsoni	Scorpaeniformes	3.87	Integrated Analysis	1913-2006	2006	1.99	1.03 *
AFMA	Australia	Northern Australia grooved Tiger Prawn	Penaeus esculentus	Decapoda	2.70	Biomass dynamics	1970-2006			
AFMA	Australia	Northern Australia brown tiger shrimp	Penaeus esculentus	Decapoda	2.70	model Biomass dynamics model	1970-2006			
AFMA	Australia	Deepwater flathead Southeast Australia	Platycephalus conatus	Scorpaeniformes	4.20	Integrated Analysis	1978-2007	2007	1.51	0.61 *
AFMA	Australia	Tasmanian giant crab Tasmania	$Pseudocarcinus\ gigas$	Decapoda		Unknown	1990-2007			
AFMA	Australia	common gemfish Southeast Australia	$Rexea\ solandri$	Perciformes	4.25	Integrated Analysis	1966-2007	2007	0.25	0.39 *
AFMA	Australia	Blue Warehou Eastern half of Southeast Australia	Seriolella brama	Perciformes		Integrated Analysis	1984-2006	2006	0.49	0.84 *
AFMA	Australia	Blue Warehou Western half of Southeast Australia	Seriolella brama	Perciformes		Integrated Analysis	1984-2006	2006	0.41	2.04 *
AFMA	Australia	Silverfish Southeast Australia	Seriolella punctata	Perciformes	3.40	Integrated Analysis	1978-2006	2006	1.03	0.79 *
AFMA	Australia	School whiting Southeast Australia	$Sillago\ flindersi$	Perciformes	3.34	Integrated Analysis	1945-2007	2007	0.66	0.82 *
CCAMLR	Multinational	Antarctic toothfish Ross Sea	$Dissostichus\ mawsoni$	Perciformes		Integrated Analysis	1995-2007			
CCSBT	Multinational	Southern bluefin tuna Southern Oceans	Thunnus maccoyii	Perciformes		Integrated Analysis	1931-2009			
CFP	Argentina	Argentine anchoita Northern Argentina	$Engraulis\ anchoita$	Clupeiformes		VPA	1989-2007	2007	1.37	0.17
CFP	Argentina	Argentine anchoita Southern Argentina	$Engraulis\ anchoita$	Clupeiformes		Biomass dynamics	1992-2007	2007	3.13	0.04
CFP	Argentina	Patagonian grenadier Southern Argentina	Macruronus magellanicus	Gadiformes		model VPA	1983-2006	2006	1.82	0.6
CFP	Argentina	Argentine hake Southern Argentina	Merluccius hubbsi	Gadiformes		VPA	1985-2008	2008	0.34	1.49
CFP	Argentina	Argentine hake Northern Argentina	$Merluccius\ hubbsi$	Gadiformes		VPA	1985-2007	2007	0.16	1.26
CFP	Argentina	Southern blue whiting Southern Argentina	$Micromesistius\ australis$	Gadiformes	3.79	VPA	1985-2007			
DETMCM	South Africa	Patagonian toothfish South Africa Subantarctic Prince Edward Islands	$Dissostichus\ eleginoides$	Perciformes	3.96	Biomass dynamics model	1960-2008			

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DETMCM	South Africa	Anchovy South Africa	Engraulis encrasicolus	Clupeiformes	3.11	Statistical catch at age model	1984-2006	2006	0.97 *	0.36 *
DETMCM	South Africa	Kingklip South Africa	Genypterus capensis	Ophidiiformes	4.44	Biomass dynamics model	1932-2008	2008	1.2	0.55 *
DETMCM	South Africa	South African abalone South Africa	$Haliotis \ midae$	Archaeogastropoda	2.00	Statistical catch at age model	1951-2008			
DETMCM	South Africa	South African west coast rock lobster South Africa Areas 3-4	$Jasus\ lalandii$	Decapoda	2.60	Statistical catch at age model	1910-2008			
DETMCM	South Africa	South African west coast rock lobster South Africa Area 8	$Jasus\ lalandii$	Decapoda	2.60	Statistical catch at age model	1910-2008			
DETMCM	South Africa	South African west coast rock lobster South Africa Areas 1-2	$Jasus\ lalandii$	Decapoda	2.60	Statistical catch at age model	1910-2008			
DETMCM	South Africa	South African west coast rock lobster South Africa Areas 5-6	$Jasus\ lalandii$	Decapoda	2.60	Statistical catch at age model	1910-2008			
DETMCM	South Africa	South African west coast rock lobster South Africa Area 7	$Jasus\ lalandii$	Decapoda	2.60	Statistical catch at age model	1910-2008			
DETMCM	South Africa	Shallow-water cape hake South Africa	Merluccius capensis	Gadiformes	4.45	Biomass dynamics model	1917-2008	2008	2.3	0.4 *
DETMCM	South Africa	Deep-water cape hake South Africa	Merluccius paradoxus	Gadiformes	4.66	Biomass dynamics model	1917-2008			
DETMCM	South Africa	Southern spiny lobster South Africa South coast	Palinurus gilchristi	Decapoda	2.60	Statistical catch at age model	1973-2008	2008	0.51 *	1.5 *
DETMCM	South Africa	Sardine South Africa	$Sardinops\ sagax$	Clupeiformes	2.43	Statistical catch at age model	1984-2006		0.75 *	0.55 *
DETMCM	South Africa	Cape horse mackerel South Africa South coast	Trachurus capensis	Perciformes	3.47	Biomass dynamics model	1950-2007	2007	1.47 *	0.76 *
DFO	Canada	Sablefish Pacific Coast of Canada	$An oplopoma\ fimbria$	Scorpaeniformes	3.83	Integrated Analysis	1913-2004	2004	0.17	3.86
DFO	Canada	Cusk NAFO 4X	Brosme brosme	Gadiformes		Biomass dynamics model	1970-2007			
DFO	Canada	Herring NAFO 4T spring spawners	$Clupea\ harengus$	Clupeiformes	3.23	VPA	1974-2007			
DFO	Canada	Herring NAFO 4T fall spawners	Clupea harengus	Clupeiformes	3.23	VPA	1974-2007			
DFO	Canada	Herring Scotian Shelf and Bay of Fundy	Clupea harengus	Clupeiformes	3.23	VPA	1965-2006			
DFO	Canada	Herring NAFO 4R fall spawners	Clupea harengus	Clupeiformes	3.23	VPA	1971-2003			
DFO	Canada	Herring NAFO 4R spring spawners	Clupea harengus	Clupeiformes	3.23	VPA	1963-2004			
DFO	Canada	Pacific herring Queen Charlotte Islands	Clupea pallasii	Clupeiformes	3.15	Statistical catch at age model	1951-2007	2007	0.2 *	0 *

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DFO	Canada	Pacific herring Straight of Georgia	Clupea pallasii	Clupeiformes	3.15	Statistical catch at age model	1951-2007	2007	0.91 *	0.4 *
DFO	Canada	Pacific herring Prince Rupert District	Clupea pallasii	Clupeiformes	3.15	Statistical catch at age model	1951-2007	2007	0.16 *	0.32 *
DFO	Canada	Pacific herring West Coast of Vancouver Island	Clupea pallasii	Clupeiformes	3.15	Statistical catch at age model	1951-2007	2007	0.03 *	0 *
DFO	Canada	Pacific herring Central Coast	Clupea pallasii	Clupeiformes	3.15	Statistical catch at age model	1951-2007	2007	0.3 *	0.11 *
DFO	Canada	Pacific cod West Coast of Vancouver Island	Gadus macrocephalus	Gadiformes	4.01	Biomass dynamics model	1956-2002	2001	0.28 *	0.61 *
DFO	Canada	Pacific cod Hecate Strait	Gadus macrocephalus	Gadiformes	4.01	Biomass dynamics model	1956-2005	2004	0.37 *	0.25 *
DFO	Canada	Atlantic cod NAFO 4VsW	Gadus morhua	Gadiformes	4.42	Unknown	1958-2002			
DFO	Canada	Atlantic cod NAFO 5Zjm	Gadus morhua	Gadiformes	4.42	VPA	1978-2003	2002	0.34 *	0.45 *
DFO	Canada	Atlantic cod NAFO 3Ps	Gadus morhua	Gadiformes	4.42	VPA	1959-2004	2004	0.49 *	0.41 *
DFO	Canada	Atlantic cod NAFO 4TVn	Gadus morhua	Gadiformes	4.42	VPA	1965-2009			
DFO	Canada	Atlantic cod NAFO 2J3KL	Gadus morhua	Gadiformes	4.42	VPA	1850-2005			
DFO	Canada	Atlantic cod NAFO 2J3KL inshore	Gadus morhua	Gadiformes	4.42	VPA	1959-2006			
DFO	Canada	Atlantic cod NAFO 3Pn4RS	$Gadus\ morhua$	Gadiformes	4.42	VPA	1964-2007		0.09 *	0.79 *
DFO	Canada	Rock sole Hecate Strait	$Lepidopsetta\ bilineata$	Pleuronectiformes	3.21	Statistical catch at age model	1945-2001	2001	1.03 *	0.45 *
DFO	Canada	Haddock NAFO-5Zejm	Melanogrammus aeglefinus	Gadiformes	4.09	VPA	1968-2003			
DFO	Canada	Haddock NAFO-4X5Y	Melanogrammus aeglefinus	Gadiformes	4.09	VPA	1960-2003			
DFO	Canada	English sole Hecate Strait	Parophrys vetulus	Pleuronectiformes	3.45	Statistical catch at age model	1944-2001	2001	1.24 *	0.37 *
DFO	Canada	Pollock NAFO-4VWX5Zc	Pollachius virens	Gadiformes	4.38	VPA	1974-2007	2006	0.56 *	0.3 *
IATTC	Multinational	Yellowfin tuna Eastern Pacific	Thunnus albacares	Perciformes	4.34	Statistical catch at age model	1975-2007			
IATTC	Multinational	Bigeye tuna Eastern Pacific	Thunnus obesus	Perciformes	4.50	Integrated Analysis	1975-2007			
ICCAT	Multinational	Skipjack tuna Eastern Atlantic	Katsuwonus pelamis	Perciformes	4.35	Biomass dynamics model	1950-2006	2006	1.71 *	0.27
ICCAT	Multinational	Skipjack tuna Western Atlantic	Katsuwonus pelamis	Perciformes	4.35	Biomass dynamics model	1952-2006	2006	1.72 *	0.32
ICCAT	Multinational	Albacore tuna North Atlantic	Thunnus alalunga	Perciformes	4.31	VPA	1929-2005	2005	0.81	1.49
ICCAT	Multinational	Yellowfin tuna Atlantic	Thunnus albacares	Perciformes	4.34	VPA	1970-2006	2006	1.07	0.81
ICCAT	Multinational	Bigeye tuna Atlantic	Thunnus obesus	Perciformes	4.50	Biomass dynamics model	1950-2005		0.9 *	0.87
ICCAT	Multinational	Bluefin tuna Western Atlantic	Thunnus thynnus	Perciformes	4.43	VPA	1969-2007	2007	0.57	1.33
ICCAT	Multinational	Bluefin tuna Eastern Atlantic	Thunnus thynnus	Perciformes	4.43	VPA	1969-2007	2007	0.34	9.38

Management	Country	Stock	Scientific name	Taxonomic order	Trophic Level	Methodology	Timespan	Current year	B ratio	U ratio
ICCAT	Multinational	Swordfish South Atlantic	$Xiphias\ gladius$	Perciformes	4.49	Biomass dynamics model	1970-2005	2005	1.54	0.49
ICCAT	Multinational	Swordfish Mediterranean Sea	$Xiphias\ gladius$	Perciformes	4.49	Biomass dynamics model	1968-2006	2006	0.94	1.27
ICCAT	Multinational	Swordfish North Atlantic	$Xiphias\ gladius$	Perciformes	4.49	Biomass dynamics model	1978-2007	2005	0.99	0.88
ICES ICES	Multinational Multinational	Sandeel North Sea Herring ICES 22-24-IIIa	Ammodytes marinus Clupea harengus	Perciformes Clupeiformes	3.23	VPA Statistical catch at age model	1983-2007 1991-2006		0.92 *	0.24 *
ICES	Multinational	Herring Northern Irish Sea	Clupea harengus	Clupeiformes	3.23	Statistical catch at age model	1960-2006	2006	0.72 *	0.34 *
ICES	Multinational	Herring ICES VIa	Clupea harengus	Clupeiformes	3.23	Statistical catch at age model	1957-2006	2006	0.18 *	1.59 *
ICES	Multinational	Herring ICES 30	Clupea harengus	Clupeiformes	3.23	VPA	1972-2007	2006	1.19 *	1.1 *
ICES	Multinational	Herring North Sea	Clupea harengus	Clupeiformes	3.23	Statistical catch at age model	1960-2007	2006	0.65 *	1.32 *
ICES	Multinational	Herring ICES 31	Clupea harengus	Clupeiformes	3.23	VPA	1979-2006		0.29 *	1.6 *
ICES ICES	Multinational Multinational	Herring ICES 25-32 Herring ICES VIa-VIIb-VIIc	Clupea harengus Clupea harengus	Clupeiformes Clupeiformes	3.23 3.23	VPA VPA	1973-2006 1969-2000		0.69 * 0.5 *	0.79 * 1.04 *
ICES	Multinational	Herring Iceland (Summer spawners)	Clupea harengus	Clupeiformes	3.23	VPA	1983-2007	2006	1 *	0.79 *
ICES	Multinational	Herring ICES 28	Clupea harengus	Clupeiformes	3.23	VPA	1976-2007	2006	1.21 *	0.87 *
ICES	Multinational	Anchovy ICES VIII	Engraulis encrasicolus	Clupeiformes	3.11	Biomass dynamics model	1986-2007			
ICES	Multinational	Atlantic cod coastal Norway	Gadus morhua	Gadiformes	4.42	VPA	1982-2006	2006	0.27 *	2.17 *
ICES	Multinational	Atlantic cod Northeast Arctic	Gadus morhua	Gadiformes	4.42	VPA	1943-2006	2006	0.56 *	1.42 *
ICES	Multinational	Atlantic cod Irish Sea	Gadus morhua	Gadiformes	4.42	VPA	1968-2006		0.15 *	0.56 *
ICES	Multinational	Atlantic cod West of Scotland	Gadus morhua	Gadiformes	4.42	Statistical catch at age model	1977-2006	2006	0.12 *	0.42 *
ICES	Multinational	Atlantic cod Baltic Areas 25-32	Gadus morhua	Gadiformes	4.42	VPA	1964-2007	2006	0.16 *	1.46 *
ICES	Multinational	Atlantic cod Faroe Plateau	$Gadus\ morhua$	Gadiformes	4.42	VPA	1959-2006		0.26 *	1.52 *
ICES ICES	Multinational Multinational	Atlantic cod Kattegat Atlantic cod Baltic Areas	Gadus morhua Gadus morhua	Gadiformes Gadiformes	4.42 4.42	VPA VPA	1970-2006 1969-2007		0.19 * 0.36 *	0.31 * 1.43 *
ICES	Multinational	22 and 24	Gadas mornaa	Gadnormes	4.42	VГА	1909-2007	2006	0.30	1.45
ICES	Multinational	Atlantic cod Iceland	Gadus morhua	Gadiformes	4.42	Statistical catch at age model	1952-2006	2006	0.46 *	1.17 *
ICES	Multinational	Atlantic cod North Sea	Gadus morhua	Gadiformes	4.42	VPA	1962-2007		0.19 *	0.8 *
ICES	Multinational	Fourspotted megrim ICES VIIIc-IXa	Lepidorhombus boscii	Pleuronectiformes		VPA	1986-2006		0.7 *	1.01 *
ICES	Multinational	Megrim ICES VIIIc-IXa	$Lepidorhombus \ whiff iagon is$	Pleuronectiformes		VPA	1985-2007		0.43 *	1.07 *
ICES	Multinational	Capelin Iceland	$Mallotus\ villosus$	Osmeriformes	3.15	Survey index	1977-2007		0.49 *	0.85 *
ICES	Multinational	Capelin Barents Sea	Mallotus villosus	Osmeriformes	3.15	Unknown	1965-2007	2006	0.17 *	0 *

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ICES	Multinational	Haddock Irish Sea	Melanogrammus aeglefinus	Gadiformes	4.09	Survey index	1972-2006			
ICES	Multinational	Haddock Northeast Arctic	Melanogrammus aeglefinus	Gadiformes	4.09	VPA	1947-2006	2006	1.1 *	1.06 *
ICES	Multinational	Haddock West of Scotland	Melanogrammus aeglefinus	Gadiformes	4.09	Statistical catch at age model	1977-2006	2006	0.58 *	0.73 *
ICES	Multinational	Haddock Faroe Plateau	Melanogrammus $aegle finus$	Gadiformes	4.09	VPA	1955-2006	2006	0.85 *	1.07 *
ICES	Multinational	Haddock ICES VIIb-k	$Melanogrammus\ aegle finus$	Gadiformes	4.09	VPA	1993-2006			
ICES	Multinational	Haddock ICES IIIa and North Sea	Melanogrammus aeglefinus	Gadiformes	4.09	VPA	1963-2006	2006	0.62 *	0.25 *
ICES	Multinational	Haddock Rockall Bank	$Melanogrammus\ aegle finus$	Gadiformes	4.09	VPA	1990-2007			
ICES	Multinational	Haddock Iceland	Melanogrammus aeglefinus	Gadiformes	4.09	VPA	1977-2007		0.98 *	1.23 *
ICES	Multinational	Whiting ICES IIIa, VIId and North Sea	Merlangius merlangus	Gadiformes	4.29	VPA	1979-2006	2006	0.33 *	1.04 *
ICES	Multinational	Whiting ICES VIa	Merlangius merlangus	Gadiformes	4.29	Survey index	1984-2007			
ICES	Multinational	Whiting ICES VIIe-k	Merlangius merlangus	Gadiformes	4.29	VPA	1982-2007		0.44 *	1.25 *
ICES	Multinational	Hake Northeast Atlantic North	Merluccius merluccius	Gadiformes	4.42	VPA	1977-2007	2006	1.04 *	0.74 *
ICES	Multinational	Hake Northeast Atlantic South	Merluccius merluccius	Gadiformes	4.42	VPA	1982-2007			
ICES	Multinational	Whiting Northeast Atlantic	Micromesistius poutassou	Gadiformes	4.01	Integrated Analysis	1980-2007	2006	0.67 *	1.66 *
ICES	Multinational	European Plaice North Sea	Pleuronectes platessa	Pleuronectiformes	3.26	VPA	1956-2006			
ICES	Multinational	European Plaice ICES IIIa	Pleuronectes platessa	Pleuronectiformes	3.26	VPA	1976-2006			
ICES	Multinational	European Plaice Irish Sea	Pleuronectes platessa	Pleuronectiformes	3.26	Statistical catch at age model	1962-2006	2006	1.07 *	0.23 *
ICES	Multinational	European Plaice ICES VIId	$Pleuronectes\ platessa$	Pleuronectiformes	3.26	VPA	1979-2006			
ICES	Multinational	European Plaice ICES VIIf-g	Pleuronectes platessa	Pleuronectiformes	3.26	VPA	1976-2006	2006	0.65 *	0.41 *
ICES	Multinational	European Plaice ICES VIIe	Pleuronectes platessa	Pleuronectiformes	3.26	VPA	1975-2006	2006	0.51 *	1.39 *
ICES	Multinational	Pollock Faroe Plateau	Pollachius virens	Gadiformes	4.38	VPA	1958-2006	2006	0.99 *	1.52 *
ICES	Multinational	Pollock ICES IIIa, VI and North Sea	Pollachius virens	Gadiformes	4.38	VPA	1964-2006	2006	0.57 *	0.97 *
ICES	Multinational	Pollock Northeast Arctic	Pollachius virens	Gadiformes	4.38	VPA	1957-2006	2006	1.7 *	0.6 *
ICES	Multinational	Greenland halibut Northeast Arctic	$Reinhardtius \ hippoglossoides$	Pleuronectiformes	4.48	VPA	1959-2007	2006	0.36 *	1.2 *
ICES	Multinational	European pilchard ICES VIIIc-IXa	Sardina pilchardus	Clupeiformes	3.10	Statistical catch at age model	1978-2007			
ICES	Multinational	Mackerel ICES Northeast Atlantic	Scomber scombrus	Perciformes	3.18	Statistical catch at age model	1972-2007	2006	0.98 *	0.73 *
ICES	Multinational	Golden Redfish Northeast Arctic	Sebastes norvegicus	Scorpaeniformes		Statistical catch at age model	1986-2006			
ICES	Multinational	common European sole Irish Sea	Solea vulgaris	Pleuronectiformes	3.17	VPA	1968-2006	2006	0.36 *	1.16 *
ICES	Multinational	common European sole ICES VIId	Solea vulgaris	Pleuronectiformes	3.17	VPA	1981-2006			
ICES	Multinational	common European sole ICES Kattegat and	Solea vulgaris	Pleuronectiformes	3.17	VPA	1982-2007	2006	1.25 *	0.54 *
ICES	Multinational	Skagerrak common European sole Bay of Biscay	Solea vulgaris	Pleuronectiformes	3.17	VPA	1982-2006	2006	0.76 *	1 *

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ICES	Multinational	common European sole Celtic Sea	Solea vulgaris	Pleuronectiformes	3.17	VPA	1970-2006	2006	0.9 *	0.95 *
ICES	Multinational	common European sole Western English Channel	Solea vulgaris	Pleuronectiformes	3.17	VPA	1968-2006	2006	0.51 *	1.74 *
ICES	Multinational	common European sole	Solea vulgaris	Pleuronectiformes	3.17	VPA	1956-2006			
ICES	Multinational	North Sea Sprat ICES Baltic Areas 22-32	$Sprattus\ sprattus$	Clupeiformes	3.00	VPA	1973-2007	2006	1.13 *	1.27 *
ICES	Multinational	Sprat North Sea	Sprattus sprattus	Clupeiformes	3.00	Statistical catch at age model	1995-2007			
ICES IMARPE	Multinational Peru	Norway pout North Sea Peruvian anchoveta North-Central Peru	Trisopterus esmarkii Engraulis ringens	Gadiformes Clupeiformes		VPA VPA	1983-2007 1963-2004	2006	0.9 *	0.33 *
IOTC	Multinational	Bigeye tuna Indian Ocean	Thunnus obesus	Perciformes	4.50	Biomass dynamics	1957-2006	2004	1.23	0.97
IPHC	Multinational	Pacific halibut North Pacific	$Hippoglossus\ stenolepis$	Pleuronectiformes		model Statistical catch at age model	1988-2009			
Iran	Iran	Anchovy kilka Caspian Sea	${\it Clupe onella\ engrauli form is}$	Clupeiformes		Biomass dynamics model	1991-2007			
MFish	New Zealand	Black oreo West end of Chatham Rise	$Allocyttus\ niger$	Zeiformes	3.38	Integrated Analysis	1973-2007	2007	0.99	0.82
MFish	New Zealand	Australian salmon New Zealand	$Arripis\ trutta$	Perciformes	4.07	Integrated Analysis	1975-2006	2006	1.64	0.33
MFish	New Zealand	New Zealand snapper New Zealand Area 8	Chrysophrys auratus	Perciformes	3.32	Integrated Analysis	1931-2005	2005	0.35	2.5
MFish	New Zealand	New Zealand ling New Zealand Areas LIN 5 and 6	Genypterus blacodes	Ophidiiformes	4.34	Integrated Analysis	1972-2007	2007	3.96	0.1
MFish	New Zealand	New Zealand ling New Zealand Area LIN 72	$Genypterus\ blacodes$	Ophidiiformes	4.34	Integrated Analysis	1972-2007	2007	2.49	0.32
MFish	New Zealand	New Zealand ling New Zealand Areas LIN 3 and 4	Genypterus blacodes	Ophidiiformes	4.34	Integrated Analysis	1972-2007	2007	3.07	0.09
MFish	New Zealand	New Zealand ling New Zealand Area LIN 6b	$Genypterus\ blacodes$	Ophidiiformes	4.34	Integrated Analysis	1980-2006	2006	2.19	0.11
MFish	New Zealand	New Zealand ling New Zealand Area LIN 7WC - WCSI	$Genypterus\ blacodes$	Ophidiiformes	4.34	Integrated Analysis	1972-2008	2008	2.21	0.13
MFish	New Zealand	New Zealand abalone species New Zealand Area PAU 7	Haliotis iris	Archaeogastropoda	2.00	Integrated Analysis	1964-2008	2008	0.87 *	0.94 *
MFish	New Zealand	New Zealand abalone species New Zealand Area PAU 5D	Haliotis iris	Archaeogastropoda	2.00	Integrated Analysis	1964-2006	2006	0.44 *	2.1 *
MFish	New Zealand	New Zealand abalone species New Zealand Area PAU 5A	Haliotis iris	Archaeogastropoda	2.00	Integrated Analysis	1964-2006	2006	0.72 *	2.83 *
MFish	New Zealand	New Zealand abalone species New Zealand Area PAU 5B	Haliotis iris	Archaeogastropoda	2.00	Integrated Analysis	1963-2007	2007	1.02 *	0.59 *
MFish	New Zealand	Orange roughy New Zealand Mid East Coast	$Hop lost ethus\ at lanticus$	Beryciformes	3.98	Integrated Analysis	1981-2004	2004	1.2	0.35
MFish	New Zealand	Red rock lobster New Zealand area CRA7	$Jasus\ edwards ii$	Decapoda	2.60	Analysis Unknown	1976-2005	2005	0.73 *	0.43 *

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MFish	New Zealand	Red rock lobster New Zealand area CRA5	Jasus edwardsii	Decapoda	2.60	Unknown	1945-2002	2002	0.59 *	1.68 *
MFish	New Zealand	Red rock lobster New Zealand area CRA8	$Jasus\ edwardsii$	Decapoda	2.60	Unknown	1976-2005	2005	0.69 *	0.49 *
MFish	New Zealand	Red rock lobster New Zealand area CRA2	$Jasus\ edwardsii$	Decapoda	2.60	Unknown	1945-2001	2001	0.53 *	2.12 *
MFish	New Zealand	Red rock lobster New Zealand area CRA4	$Jasus\ edwardsii$	Decapoda	2.60	Unknown	1945-2005	2005	0.67 *	1.33 *
MFish	New Zealand	Red rock lobster New Zealand area CRA1	$Jasus\ edwardsii$	Decapoda	2.60	Unknown	1945-2001	2001	1.14 *	0.88 *
MFish	New Zealand	Red rock lobster New Zealand area CRA3	$Jasus\ edwardsii$	Decapoda	2.60	Unknown	1945-2007			
MFish	New Zealand	Hoki Eastern New Zealand	Macruronus novaezelandiae	Gadiformes	4.47	Integrated Analysis	1972-2007	2007	1.11 *	0.33 *
MFish	New Zealand	Hoki Western New Zealand	Macruronus novaezelandiae	Gadiformes	4.47	Integrated Analysis	1972-2007	2007	0.51 *	0.57 *
MFish	New Zealand	Southern hake Chatham Rise	Merluccius australis	Gadiformes	4.45	Integrated Analysis	1975-2006	2006	1.77	0.12
MFish	New Zealand	Southern hake Sub-Antarctic	Merluccius australis	Gadiformes	4.45	Integrated Analysis	1975-2007	2007	2.91	0.11
MFish	New Zealand	Southern blue whiting Campbell Island Rise	$Micromesistius\ australis$	Gadiformes	3.79	Integrated Analysis	1979-2006	2006	1.15	0.92
MFish	New Zealand	Trevally New Zealand Areas TRE 7	Pseudocaranx dentex	Perciformes	3.24	Integrated Analysis	1944-2005	2005	1.44	0.83
MFish	New Zealand	Smooth oreo Chatham Rise	$Pseudocyttus\ maculatus$	Zeiformes	3.61	Integrated Analysis	1979-2006	2006	2.25	0.38
MFish	New Zealand	Smooth oreo West end of Chatham Rise	$Pseudocyttus\ maculatus$	Zeiformes	3.61	Integrated Analysis	1973-2004	2004	1.25	0.53
MFish	New Zealand	common gemfish New Zealand	$Rexea\ solandri$	Perciformes	4.25	Integrated Analysis	1952-2007	2006	1.64	0.43
NAFO	Multinational	Atlantic cod NAFO 3NO	$Gadus\ morhua$	Gadiformes	4.42	VPA	1953-2007	2006	0.02 *	0.27 *
NAFO	Multinational	Atlantic cod NAFO 3M	Gadus morhua	Gadiformes	4.42	VPA	1959-2008			
NAFO	Multinational	American Plaice NAFO-3LNO	Hippoglossoides platessoides	Pleuronectiformes	3.65	VPA	1955-2007	2006	0.08 *	0.77 *
NAFO	Multinational	American Plaice NAFO-3M	$Hippoglossoides \\ platessoides$	Pleuronectiformes	3.65	VPA	1960-2007			
NAFO	Multinational	Yellowtail Flounder NAFO 3LNO	Limanda ferruginea	Pleuronectiformes	3.22	Biomass dynamics model	1960-2009	2007	1.62 *	0.15 *
NAFO	Multinational	Redfish species NAFO 3LN	Redfish species	Scorpaeniformes		Biomass dynamics model	1959-2008	2008	1.88	0.04
NAFO	Multinational	Redfish species NAFO 3M	Redfish species	Scorpaeniformes		VPA	1989-2006			
NAFO	Multinational	Greenland halibut NAFO 23KLMNO	$Reinhard tius \ hippoglossoides$	Pleuronectiformes	4.48	VPA	1960-2006	2006	0.39 *	1.73 *
NMFS	USA	Sablefish Pacific Coast	$An oplopoma\ fimbria$	Scorpaeniformes	3.83	Integrated Analysis	1900-2007			
NMFS	USA	Sablefish Eastern Bering Sea / Aleutian Islands / Gulf of Alaska	$An oplopoma\ fimbria$	Scorpaeniformes	3.83	Statistical catch at age model	1956-2008	2008	1.05	0.66
NMFS	USA	Ocean quahog Atlantic Coast	$Arctica\ is landica$	Veneroida	2.00	Biomass dynamics model	1978-2008			
NMFS	USA	Gray triggerfish Gulf of Mexico	Balistes capriscus	Tetraodontiformes		Biomass dynamics model	1981-2004			
NMFS	USA	Gulf menhaden Gulf of Mexico	Brevoortia patronus	Clupeiformes	2.19	Statistical catch at age model	1964-2004	2004	1.08 *	0.48 *

Management	Country	Stock	Scientific name	Taxonomic order	Trophic Level	Methodology	Timespan	Current year	B ratio	U ratio
NMFS	USA	Atlantic menhaden Atlantic	Brevoortia tyrannus	Clupeiformes	2.25	Statistical catch at age model	1940-2005	2005	0.47 *	0.97 *
NMFS	USA	Blacknose shark Atlantic	Carcharhinus acronotus	Carcharhiniformes		Biomass dynamics model	1950-2005			
NMFS	USA	Finetooth shark Atlantic	$Carcharhinus\ isodon$	Carcharhiniformes		Biomass dynamics model	1976-2005			
NMFS	USA	Blacktip shark Gulf of Mexico	$Carcharhinus\ limbatus$	Carcharhiniformes		Biomass dynamics model	1981-2004			
NMFS	USA	Blacktip shark Atlantic	$Carcharhinus\ limbatus$	Carcharhiniformes		Biomass dynamics model	1981-2004			
NMFS	USA	Sandbar shark Atlantic	$Carcharhinus\ plumbeus$	Carcharhiniformes		Biomass dynamics model	1975-2004			
NMFS	USA	Black sea bass Mid-Atlantic Coast	$Centropristis\ striata$	Perciformes	3.98	Statistical catch at age model	1968-2007	2007	0.92	0.67 *
NMFS	USA	Snow crab Bering Sea	$Chionoecetes\ opilio$	Decapoda	2.30	Biomass dynamics model	1979-2008	2008	0.55	1.49 *
NMFS	USA	Atlantic herring Northwestern Atlantic Coast	Clupea harengus	Clupeiformes	3.23	Statistical catch at age model	1960-2005	2005	1.66	0.34
NMFS	USA	Pacific herring Sitka	Clupea pallasii	Clupeiformes	3.15	Statistical catch at age model	1978-2007			
NMFS	USA	Pacific herring Prince William Sound	Clupea pallasii	Clupeiformes	3.15	Statistical catch at age model	1980-2006			
NMFS	USA	Weakfish Atlantic Coast	Cynoscion regalis	Perciformes		VPA	1981-2008			
NMFS	USA	Petrale sole Southern Pacific Coast	$Eopsetta\ jordani$	Pleuronectiformes	4.05	Integrated Analysis	1874-2005		1.13	0.61 *
NMFS	USA	Petrale sole Northern Pacific Coast	$Eopsetta\ jordani$	Pleuronectiformes	4.05	Integrated Analysis	1910-2005		1.87	1.26 *
NMFS	USA	Red grouper Gulf of Mexico	Epinephelus morio	Perciformes		Statistical catch at age model	1986-2005	2005	1.27	0.73
NMFS	USA	Snowy grouper Southern Atlantic coast	Epinephelus niveatus	Perciformes	4.04	Statistical catch at age model	1961-2002	2002	0.19	3.08
NMFS	USA	Pacific cod Bering Sea and Aleutian Islands	$Gadus\ macrocephalus$	Gadiformes	4.01	Integrated Analysis	1964-2008	2008	1	0.93 *
NMFS	USA	Pacific cod Gulf of Alaska	$Gadus\ macrocephalus$	Gadiformes	4.01	Integrated Analysis	1964-2008	2008	0.91	0.84 *
NMFS	USA	Atlantic cod Georges Bank	Gadus morhua	Gadiformes	4.42	VPA	1960-2008	2007	0.12	0.72 *
NMFS	USA	Atlantic cod Gulf of Maine	Gadus morhua	Gadiformes	4.42	VPA	1893-2008		1.46 *	2.4
NMFS	USA	Witch Flounder NAFO-5Y	Glyptocephalus cynoglossus	Pleuronectiformes		VPA	1982-2008		0.3	1.45
NMFS	USA	Rex sole Gulf of Alaska	$Glyptocephalus\ zachirus$	Pleuronectiformes	3.24	Statistical catch at age model	1979-2008			
NMFS	USA	Kelp greenling Oregon Coast	$Hexagrammos \ decagrammus$	Scorpaeniformes	3.59	Integrated Analysis	1979-2005			
NMFS	USA	Flathead sole Gulf of Alaska	Hippoglossoides elassodon	Pleuronectiformes	3.64	Statistical catch at age model	1978-2010			

Management	Country	Stock	Scientific name	Taxonomic order	Trophic Level	Methodology	Timespan	Current year	B ratio	U ratio
NMFS	USA	Flathead sole Bering Sea and Aleutian Islands	$Hippoglossoides\ elassodon$	Pleuronectiformes	3.64	Statistical catch at age model	1977-2008	2008	1.83	0.18 *
NMFS	USA	American Plaice NAFO-5YZ	Hippoglossoides platessoides	Pleuronectiformes	3.65	VPA	1960-2008	2007	0.7	0.3 *
NMFS	USA	Atlantic Halibut NAFO-5YZ	Hippoglossus hippoglossus	Pleuronectiformes	4.53	Unknown	1800-2007			
NMFS	USA	American lobster Georges Bank	Homarus americanus	Decapoda	3.70	Biomass dynamics model	1981-2007			
NMFS	USA	American lobster Southern New England	Homarus americanus	Decapoda	3.70	Biomass dynamics model	1981-2007			
NMFS	USA	American lobster Gulf of Maine	Homarus americanus	Decapoda	3.70	Biomass dynamics model	1981-2007			
NMFS	USA	Northern shortfin squid Northwestern Atlantic	$Illex\ illecebrosus$	Teuthida		Biomass dynamics	1967-2005			
NMFS	USA	Coast Northern rock sole Eastern Bering Sea and Aleutian Islands	$Lepidop setta\ polyxystra$	Pleuronectiformes	3.21	model Statistical catch at age model	1971-2008	2007	3.02	0.21
NMFS	USA	Yellowfin sole Bering Sea and Aleutian Islands	$Limanda\ aspera$	Pleuronectiformes	3.24	Statistical catch at age	1959-2008	2008	1.94	0.62
NMFS	USA	Yellowtail flounder Georges Bank	$Limanda\ ferruginea$	Pleuronectiformes	3.22	model VPA	1935-2008	2007	0.22	1.14
NMFS	USA	Yellowtail flounder Cape Cod / Gulf of Maine	$Limanda\ ferruginea$	Pleuronectiformes	3.22	VPA	1935-2008	2007	0.25	1.73
NMFS	USA	Yellowtail Flounder Southern New	$Limanda\ ferruginea$	Pleuronectiformes	3.22	VPA	1935-2008	2007	0.13	1.61
NMFS	USA	England-Mid Atlantic Golden king crab Aleutian Islands Eastern segment	Lithodes aequispinus	Decapoda		Statistical catch at length model	1990-2007			
NMFS	USA	Golden king crab Aleutian Islands Western segment	$Lithodes\ a equispinus$	Decapoda		Statistical catch at length model	1989-2007			
NMFS	USA	Monkfish Southern Georges Bank / Mid-Atlantic	Lophius americanus	Lophiiformes	4.49	Unknown	1964-2006	2006	1.72 *	0.3 *
NMFS	USA	Monkfish Gulf of Maine /	$Lophius\ americanus$	Lophiiformes	4.49	Unknown	1964-2006	2006	1.73 *	0.38 *
NMFS	USA	Northern Georges Bank Tilefish Southern Atlantic coast	$Lopholatilus \ chamaele onticeps$	Perciformes	3.45	Statistical catch at age model	1961-2002	2002	0.9	1.55
NMFS	USA	Tilefish Mid-Atlantic Coast	$Lopholatilus \ chamaele onticeps$	Perciformes	3.45	Biomass dynamics model	1973-2008	2005	0.72 *	0.61 *
NMFS	USA	Mutton snapper Southern Atlantic coast and Gulf of Mexico	$Lutjanus\ analis$	Perciformes	3.86	Statistical catch at age model	1981-2006			
NMFS	USA	Mexico Red snapper Eastern Gulf of Mexico	Lutjanus campechanus	Perciformes	4.01	model Statistical catch at age model	1872-2003			

Management	Country	Stock	Scientific name	Taxonomic order	Trophic Level	Methodology	Timespan	Current year	B ratio	U ratio
NMFS	USA	Red snapper Western Gulf of Mexico	Lutjanus campechanus	Perciformes	4.01	Statistical catch at age model	1880-2003			
NMFS	USA	Red snapper Southern Atlantic coast	Lutjanus campechanus	Perciformes	4.01	Statistical catch at age model	1945-2006			
NMFS	USA	Haddock Georges Bank	Melanogrammus aeglefinus	Gadiformes	4.09	VPA	1930-2008			
NMFS	USA	Haddock NAFO-5Y	Melanogrammus aeglefinus	Gadiformes	4.09	VPA	1956-2008	2007	0.99	1.21 *
NMFS	USA	Silver hake Gulf of Maine / Northern Georges Bank	Merluccius bilinearis	Gadiformes		Survey index	1955-2005			
NMFS	USA	Silver hake Southern Georges Bank / Mid-Atlantic	Merluccius bilinearis	Gadiformes		Survey index	1955-2005			
NMFS	USA	Pacific hake Pacific Coast	Merluccius productus	Gadiformes	4.35	Integrated Analysis	1966-2008	2008	1.61	0.73
NMFS	USA	Atlantic croaker Mid-Atlantic Coast	$Micropogonias\ undulatus$	Perciformes	3.31	Biomass dynamics model	1973-2002	2002	1.42	0.27
NMFS	USA	Dover sole Gulf of Alaska	Microstomus pacificus	Pleuronectiformes	3.27	Statistical catch at age model	1978-2010			
NMFS	USA	Dover sole Pacific Coast	Microstomus pacificus	Pleuronectiformes	3.27	Integrated Analysis	1910-2005	2005	1.61	0.45 *
NMFS	USA	Striped bass Gulf of Maine / Cape Hatteras	Morone saxatilis	Perciformes		Statistical catch at age model	1982-2006			
NMFS	USA	Gag Gulf of Mexico	Mycteroperca microlepis	Perciformes	3.65	Unknown	1963-2004	2004	1	2.44
NMFS	USA	Gag Southern Atlantic coast	$Mycteroperca\ microlepis$	Perciformes	3.65	Statistical catch at age model	1962-2005	2005	0.94	1.31
NMFS	USA	Yellowtail snapper Southern Atlantic Coast and Gulf of Mexico	Ocyurus chrysurus	Perciformes		Statistical catch at age model	1962-2001	2001	1.14	0.61
NMFS	USA	Lingcod Northern Pacific Coast	$Ophiodon\ elongatus$	Scorpaeniformes	4.32	Integrated Analysis	1956-2005			
NMFS	USA	Lingcod Southern Pacific Coast	$Ophiodon\ elongatus$	Scorpaeniformes	4.32	Integrated Analysis	1956-2005			
NMFS	USA	Red porgy Southern Atlantic coast	Pagrus pagrus	Perciformes	3.65	Statistical catch at age model	1972-2004	2004	0.61	0.39
NMFS	USA	Northern shrimp Gulf of Maine	Pandalus borealis	Decapoda		Statistical catch at age model	1960-2009	2008	1.58 *	0.56 *
NMFS	USA	Summer flounder Mid-Atlantic Coast	Paralichthys dentatus	Pleuronectiformes	4.49	Statistical catch at age model	1940-2007			
NMFS	USA	Red king crab Bristol Bay	Paralithodes camtschaticus	Decapoda	2.82	Statistical catch at length model	1960-2008	2008	1.27	1.05
NMFS	USA	Red king crab Norton Sound	$Paralithodes\ camts chaticus$	Decapoda	2.82	Statistical catch at length model	1976-2008			
NMFS	USA	English sole Pacific Coast	Parophrys vetulus	Pleuronectiformes	3.45	Integrated Analysis	1876-2007	2007	6.42	0.14 *
NMFS	USA	Atlantic butterfish Gulf of Maine / Cape Hatteras	Peprilus triacanthus	Perciformes	3.97	Unknown	1965-2005			

Management	Country	Stock	Scientific name	Taxonomic order	Trophic Level	Methodology	Timespan	Current year	B ratio	U ratio
NMFS	USA	Sea scallop Mid-Atlantic Coast	Placopecten magellanicus	Ostreoida	2.00	Statistical catch at length	1964-2006	2006	1 *	0.36 *
NMFS	USA	Sea scallop Georges Bank	Placopecten magellanicus	Ostreoida	2.00	model Statistical catch at length model	1964-2006	2006	1.59 *	0.78 *
NMFS	USA	Starry flounder Southern Pacific Coast	Platichthys stellatus	Pleuronectiformes	3.32	Integrated Analysis	1970-2005	2005	1.55	0.12 *
NMFS	USA	Starry flounder Northern Pacific Coast	Platichthys stellatus	Pleuronectiformes	3.32	Integrated Analysis	1970-2005	2005	1.1	0.33 *
NMFS	USA	Atka mackerel Bering Sea and Aleutian Islands	Pleurogrammus monopterygius	Scorpaeniformes	3.33	Statistical catch at age model	1976-2009	2009	1.55	0.55 *
NMFS	USA	Alaska plaice Bering Sea and Aleutian Islands	$Pleuronectes \ quadrituber culatus$	Pleuronectiformes	3.10	Statistical catch at age model	1972-2008	2008	2.46	0.07
NMFS	USA	Pollock NAFO-5YZ	Pollachius virens	Gadiformes	4.38	Survey	1963-2007			
NMFS	USA	Bluefish Atlantic Coast	$Pomatomus\ saltatrix$	Perciformes	4.50	Statistical catch at age model	1981-2007	2007	0.81 *	0.79
NMFS	USA	Winter Flounder Southern New England-Mid Atlantic	$Pseudopleuronectes\\americanus$	Pleuronectiformes	2.83	VPA	1940-2007	2007	0.09	1.1 *
NMFS	USA	Winter Flounder NAFO-5Z	Pseudopleuronectes americanus	Pleuronectiformes	2.83	VPA	1982-2007	2006	0.28	0.25 *
NMFS	USA	Winter Flounder NAFO-5Y	Pseudopleuronectes americanus	Pleuronectiformes	2.83	Unknown	1982-2008			
NMFS	USA	Longnose skate Pacific Coast	Raja rhina	Rajiformes	3.76	Integrated Analysis	1915-2007	2007	1.56 *	0.4 *
NMFS	USA	Greenland turbot Bering Sea and Aleutian Islands	$Reinhard tius \ hippoglossoides$	Pleuronectiformes	4.48	Statistical catch at age model	1960-2009	2009	1.48	0.05
NMFS	USA	Arrowtooth flounder Gulf of Alaska	$Reinhardtius\ stomias$	Pleuronectiformes	4.26	Statistical catch at age model	1958-2010	2010	3.02	0.28 *
NMFS	USA	Arrowtooth flounder Bering Sea and Aleutian Islands	$Reinhard tius\ stomias$	Pleuronectiformes	4.26	Statistical catch at age model	1970-2008	2008	2.7	0.31 *
NMFS	USA	Arrowtooth flounder Pacific Coast	$Reinhard tius\ stomias$	Pleuronectiformes	4.26	Integrated Analysis	1916-2007	2007	3.81	0.21
NMFS	USA	Atlantic sharpnose shark Atlantic	$Rhizo prionodon \ terraenovae$	Carcharhiniformes		Biomass dynamics model	1950-2005			
NMFS	USA	Vermilion snapper Southern Atlantic coast	$Rhom bop lites \ aurorubens$	Perciformes	4.33	Statistical catch at age model	1946-2008	2007	0.86	1.27
NMFS	USA	Vermilion snapper Gulf of Mexico	$Rhom bop lites\ aurorubens$	Perciformes	4.33	Biomass dynamics model	1981-2004			
NMFS	USA	Pacific sardine Pacific Coast	$Sardinops\ sagax$	Clupeiformes	2.43	Integrated Analysis	1981-2007	2006	1.36 *	0.41 *
NMFS	USA	Pacific chub mackerel Pacific Coast	Scomber japonicus	Perciformes	3.09	Statistical catch at age model	1929-2008			
NMFS	USA	King mackerel Gulf of Mexico	$Scomberomorus\ cavalla$	Perciformes		VPA	1992-2001			

Management	Country	Stock	Scientific name	Taxonomic order	Trophic Level	Methodology	Timespan	Current year	B ratio	U ratio
NMFS	USA	King mackerel Southern Atlantic Coast	Scomberomorus cavalla	Perciformes		VPA	1981-2001			
NMFS	USA	Spanish mackerel Southern Atlantic Coast	$Scomberomorus\ maculatus$	Perciformes	4.50	Statistical catch at age model	1950-2008	2007	0.38	0.91
NMFS	USA	Atlantic mackerel Gulf of Maine / Cape Hatteras	$Scomber\ scombrus$	Perciformes	3.18	VPA	1960-2005			
NMFS	USA	Windowpane Southern New England-Mid Atlantic	$Scophthalmus\ aquosus$	Pleuronectiformes	3.55	Survey index	1975-2007			
NMFS	USA	Windowpane flounder - Gulf of Maine / Georges Bank	$Scophthalmus\ aquosus$	Pleuronectiformes	3.55	Survey index	1975-2007			
NMFS	USA	California scorpionfish Southern California	$Scorpaena\ guttata$	Scorpaeniformes		Statistical catch at age model	1990-2005			
NMFS	USA	Cabezon Southern California	$Scorpaenichthys \ marmoratus$	Scorpaeniformes	3.51	Integrated Analysis	1932-2005	2005	0.74	0.53 *
NMFS	USA	Cabezon Northern California	Scorpaenichthys marmoratus	Scorpaeniformes	3.51	Integrated Analysis	1916-2005	2005	1.04	0.99 *
NMFS	USA	Rougheye rockfish Bering Sea and Aleutian Islands	Sebastes aleutianus	Scorpaeniformes	3.65	Statistical catch at age model	1974-2009			
NMFS	USA	Rougheye rockfish Gulf of Alaska	Sebastes aleutianus	Scorpaeniformes	3.65	Statistical catch at age	1974-2007			
NMFS	USA	Pacific ocean perch Gulf of Alaska	Sebastes alutus	Scorpaeniformes	3.50	model Statistical catch at age	1959-2010			
NMFS	USA	Pacific ocean perch Pacific Coast	Sebastes alutus	Scorpaeniformes	3.50	model Statistical catch at age	1953-2007	2007	0.69	0
NMFS	USA	Pacific Ocean perch Eastern Bering Sea and	Sebastes alutus	Scorpaeniformes	3.50	model Statistical catch at age	1974-2009	2009	1.23	0.26 *
NMFS	USA	Aleutian Islands Shortraker rockfish Bering Sea and Aleutian Islands	Sebastes borealis	Scorpaeniformes	3.87	model Statistical catch at age	1977-2008			
NMFS	USA	Gopher rockfish Southern Pacific Coast	Sebastes carnatus	Scorpaeniformes	3.62	model Integrated Analysis	1965-2005			
NMFS	USA	Darkblotched rockfish Pacific Coast	Sebastes crameri	Scorpaeniformes	3.69	Integrated Analysis	1928-2007	2007	0.73	0.31
NMFS	USA	Widow rockfish Pacific Coast	Sebastes entomelas	Scorpaeniformes	3.68	Statistical catch at age model	1955-2006	2006	0.91 *	0.06
NMFS	USA	Acadian redfish Gulf of Maine / Georges Bank	$Sebastes\ fasciatus$	Scorpaeniformes	3.16	Statistical catch at age model	1913-2007			
NMFS	USA	Yellowtail rockfish Northern Pacific Coast	$Sebastes\ flavidus$	Scorpaeniformes	4.11	Integrated Analysis	1967-2005	2005	1.36	0.51 *
NMFS	USA	Chilipepper Southern Pacific Coast	$Sebastes\ goodei$	Scorpaeniformes	3.58	Integrated Analysis	1892-2007	2006	1.43 *	0.04
NMFS	USA	Shortbelly rockfish Pacific Coast	$Sebastes\ jordani$	Scorpaeniformes	3.20	Integrated Analysis	1950-2005			
NMFS	USA	Cowcod Southern California	Sebastes levis	Scorpaeniformes	3.69	Integrated Analysis	1900-2007	2007	0.09	0.07
NMFS	USA	Black rockfish Southern Pacific Coast	$Sebastes\ melanops$	Scorpaeniformes	4.20	Integrated Analysis	1915-2007	2007	2.23	0.33

Management	Country	Stock	Scientific name	Taxonomic order	Trophic Level	Methodology	Timespan	Current year	B ratio	U ratio
NMFS	USA	Black rockfish Northern Pacific Coast	Sebastes melanops	Scorpaeniformes	4.20	Integrated	1914-2006	2006	1.37 *	0.47
NMFS	USA	Blackgill rockfish Pacific Coast	$Sebastes\ melanostomus$	Scorpaeniformes	3.69	Analysis Integrated Analysis	1950-2005			
NMFS	USA	Blue rockfish California	Sebastes mystinus	Scorpaeniformes	2.81	Integrated Analysis	1916-2007	2007	0.75	1.19
NMFS	USA	Bocaccio Southern Pacific Coast	$Sebastes\ paucispinis$	Scorpaeniformes	3.51	Integrated Analysis	1951-2006	2006	0.32	0.1
NMFS	USA	Canary rockfish Pacific Coast	$Sebastes\ pinniger$	Scorpaeniformes	3.80	Integrated Analysis	1916-2009	2009	0.62	0.03
NMFS	USA	Northern rockfish Gulf of Alaska	$Sebastes\ polyspinis$	Scorpaeniformes	3.57	Statistical catch at age model	1959-2008	2008	1.5	0.66
NMFS	USA	Northern rockfish Bering Sea and Aleutian Islands	$Sebastes\ polyspinis$	Scorpaeniformes	3.57	Statistical catch at age model	1974-2009	2009	1.41	0.13 *
NMFS	USA	Yelloweye rockfish Pacific Coast	$Sebastes\ ruberrimus$	Scorpaeniformes	4.43	Integrated Analysis	1923-2006	2006	0.38 *	0.65
NMFS	USA	Dusky rockfish Gulf of Alaska	Sebastes variabilis	Scorpaeniformes	3.69	Statistical catch at age model	1973-2008	2007	1.54	0.54
NMFS	USA	Shortspine thornyhead Pacific Coast	$Sebastolobus\ alascanus$	Scorpaeniformes	3.61	Integrated Analysis	1901-2005			
NMFS	USA	Longspine thornyhead Pacific Coast	$Sebastolobus\ altivelis$	Scorpaeniformes	3.61	Integrated Analysis	1962-2005	2005	2.65	0.23
NMFS	USA	Greater amberjack Southern Atlantic coast	Seriola dumerili	Perciformes	4.50	Statistical catch at age model	1946-2006			
NMFS	USA	Greater amberjack Gulf of Mexico	Seriola dumerili	Perciformes	4.50	Biomass dynamics model	1986-2004			
NMFS	USA	Bonnethead shark Atlantic	Sphyrna tiburo	Carcharhiniformes		Biomass dynamics model	1950-2005			
NMFS	USA	Atlantic surfclam Mid-Atlantic Coast	$Spisula\ solidissima$	Veneroida	2.00	Biomass dynamics model	1965-2008			
NMFS	USA	Spiny dogfish Atlantic Coast	$Squalus\ a can thias$	Squaliformes		Unknown	1962-2006			
NMFS	USA	Scup Atlantic Coast	Stenotomus chrysops	Perciformes		Statistical catch at age model	1960-2007			
NMFS	USA	Walleye pollock Aleutian Islands	$The ragra\ chalcogramma$	Gadiformes	3.45	Statistical catch at age model	1976-2008	2008	0.86	0.02
NMFS	USA	Walleye pollock Gulf of Alaska	$The ragra\ chalcogramma$	Gadiformes	3.45	Statistical catch at age	1964-2008			
NMFS	USA	Walleye pollock Eastern Bering Sea	$The ragra\ chalcogramma$	Gadiformes	3.45	model Statistical catch at age	1963-2008	2008	0.66	0.85 *
NMFS	USA	White hake Georges Bank / Gulf of Maine	$Urophycis\ tenuis$	Gadiformes	4.20	model Biomass dynamics	1963-2007	2007	0.35	0.8
RFFA	Russia	Walleye pollock Western Bering Sea	$The ragra\ chalcogramma$	Gadiformes	3.45	model VPA	1994-2004			
RFFA	Russia	Walleye pollock Northern Sea of Okhotsk	$The ragra\ chalcogramma$	Gadiformes	3.45	Biomass dynamics model	1985-1994			

Management	Country	Stock	Scientific name	Taxonomic order	Trophic Level	Methodology	Timespan	Current year	B ratio	U ratio
SPRFMO	Multinational	Chilean jack mackerel Chilean EEZ and offshore	Trachurus murphyi	Perciformes	3.49	Integrated Analysis	1950-2010	2010	0.09 *	3.66 *
UNKNOWN	Multinational	Shortfin mako Nothwest Pacific Ocean	Isurus oxyrinchus	Lamniformes		VPA	1990-2003			
US State	USA	American lobster Rhode Island	Homarus americanus	Decapoda	3.70	Biomass dynamics model	1959-2007	2006	0.53 *	0.67 *
US State	USA	Winter flounder Rhode Island	$Pseudopleuronectes\\americanus$	Pleuronectiformes	2.83	Biomass dynamics model	1959-2007	2006	0.25 *	2.02
US State	USA	Tautog Rhode Island	Tautoga onitis	Perciformes	3.33	Biomass dynamics model	1959-2007	2006	0.84 *	0.59 *
WCPFC	Multinational	Striped marlin Southwestern Pacific Ocean	Kajikia audax	Perciformes		Statistical catch at age model	1950-2004	2004	0.88	0.27
WCPFC	Multinational	Skipjack tuna Central Western Pacific	Katsuwonus pelamis	Perciformes	4.35	Statistical catch at age model	1972-2006	2006	4.38	0.3
WCPFC	Multinational	Albacore tuna South Pacific Ocean	Thunnus alalunga	Perciformes	4.31	Statistical catch at age model	1959-2006	2006	2.46	0.9
WCPFC	Multinational	Yellowfin tuna Central Western Pacific	Thunnus albacares	Perciformes	4.34	Statistical catch at age model	1952-2005	2005	1.22	0.8
WCPFC	Multinational	Bigeye tuna Western Pacific Ocean	Thunnus obesus	Perciformes	4.50	Statistical catch at age model	1952-2006	2006	1.06	1.38

Table S 1: Summary of population-dynamics model based assessments in the RAM Legacy database, including the management body (acronyms from Table 1), assessment method, timespan of their longest time series data, estimated ratios of current biomass to the biomass at MSY and current harvest rate to the harvest rate that results in MSY. Estimated ratios were preferentially obtained directly from the assessment document or derived from surplus production models. When both SSBmsy and Bmsy reference points were available, SSB was chosen preferentially.

	SP U/Umsy < 1	SP U/Umsy > 1
U/Umsy < 1	20	14
U/Umsy > 1	2	8
B/Bmsy < 1	28	6
B/Bmsy > 1	12	30

Table S 2: Contingency tables of stock status classification for biomass and exploitation reference points obtained from assessments and those derived from surplus production models.

2 Supplementary figures

Figure S1. Entity-relationship diagram

Figure S2. Contingency table

Figure S3. Taxonomic coverage of assessed marine species present in the RAM Legacy database. The circle located near the middle of the circular dendrogram represents kingdom Animalia and each subsequent branching represents a different taxonomic group (Kingdom to Phylum to Class to Order to Family to Genus to Species). The width of each line is proportional to the square root of the number of assessments in the database. The outermost lines represent species and the number of lines is the number of assessments for each species. The names of multi-assessment species are not repeated on the outermost portion of the dendrogram but continue counter-clockwise from the first entry. Note that branch lengths are chosen for graphical purposes and do not convey phylogenetic distance.

Figure S4. ICES Blim

Figure S5. Functional groups.

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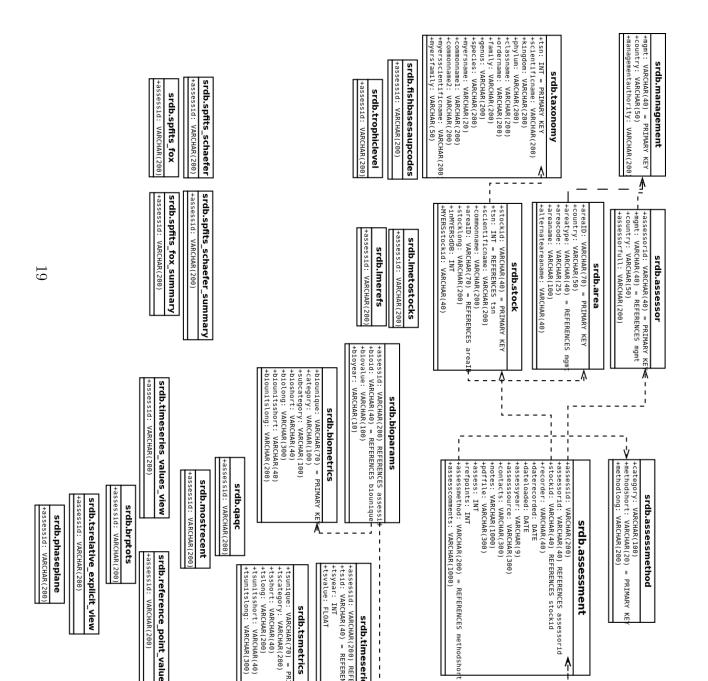


Fig. S 1

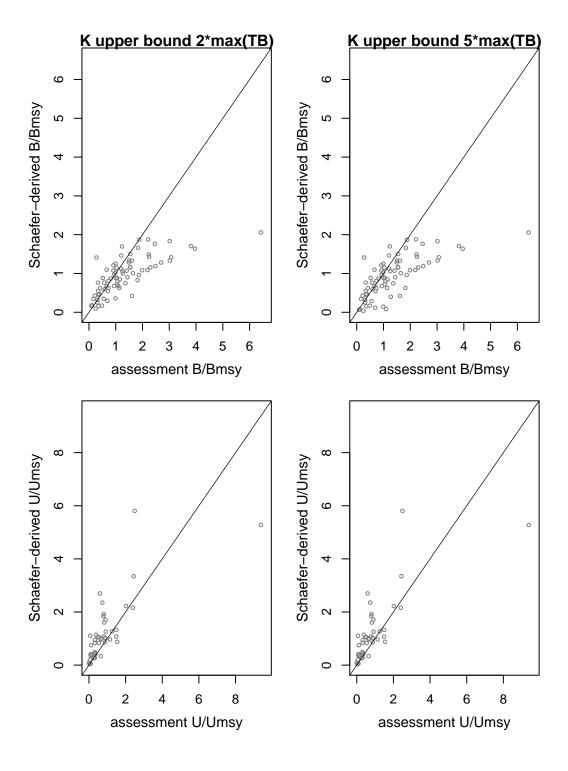


Fig. S 2:

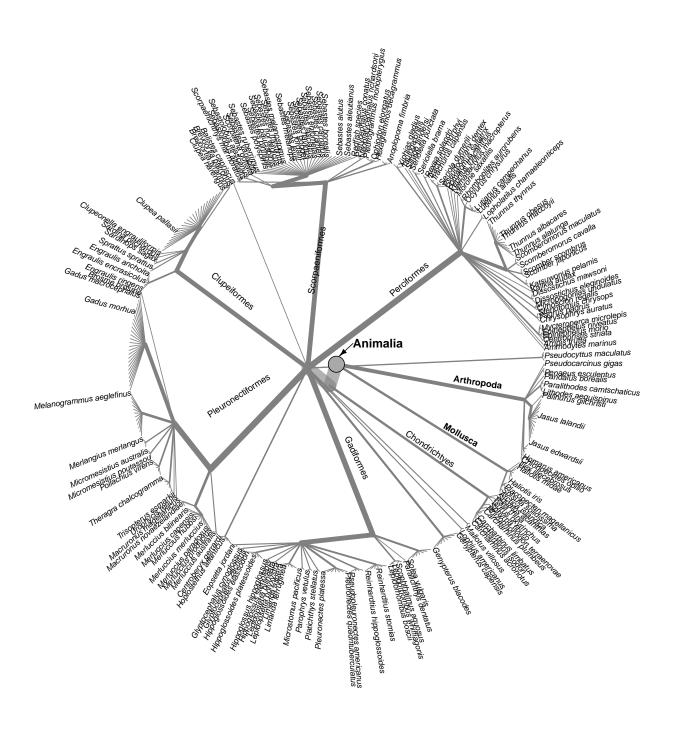


Fig. S 3:

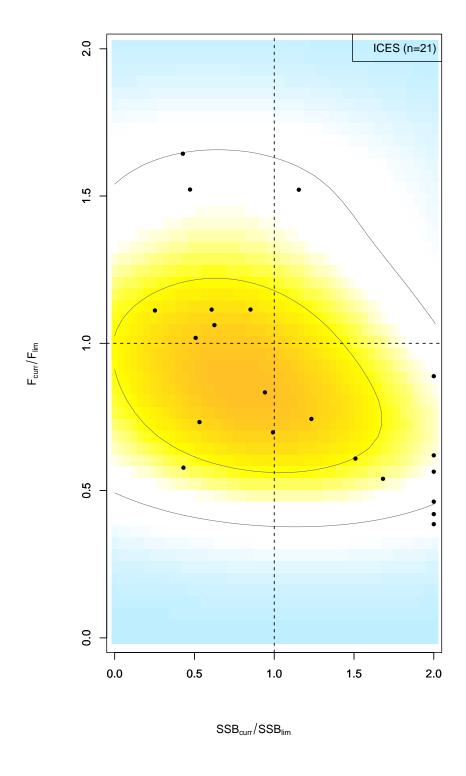


Fig. S 4: ICES SSBlim.

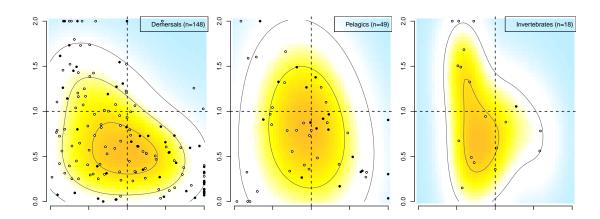


Fig. S 5: Invertebrates, demersal fish and pelagic fish.