

Supplementary materials for Fish and Fisheries manuscript

July 28, 2010

Supporting Information

Entity relationship diagram

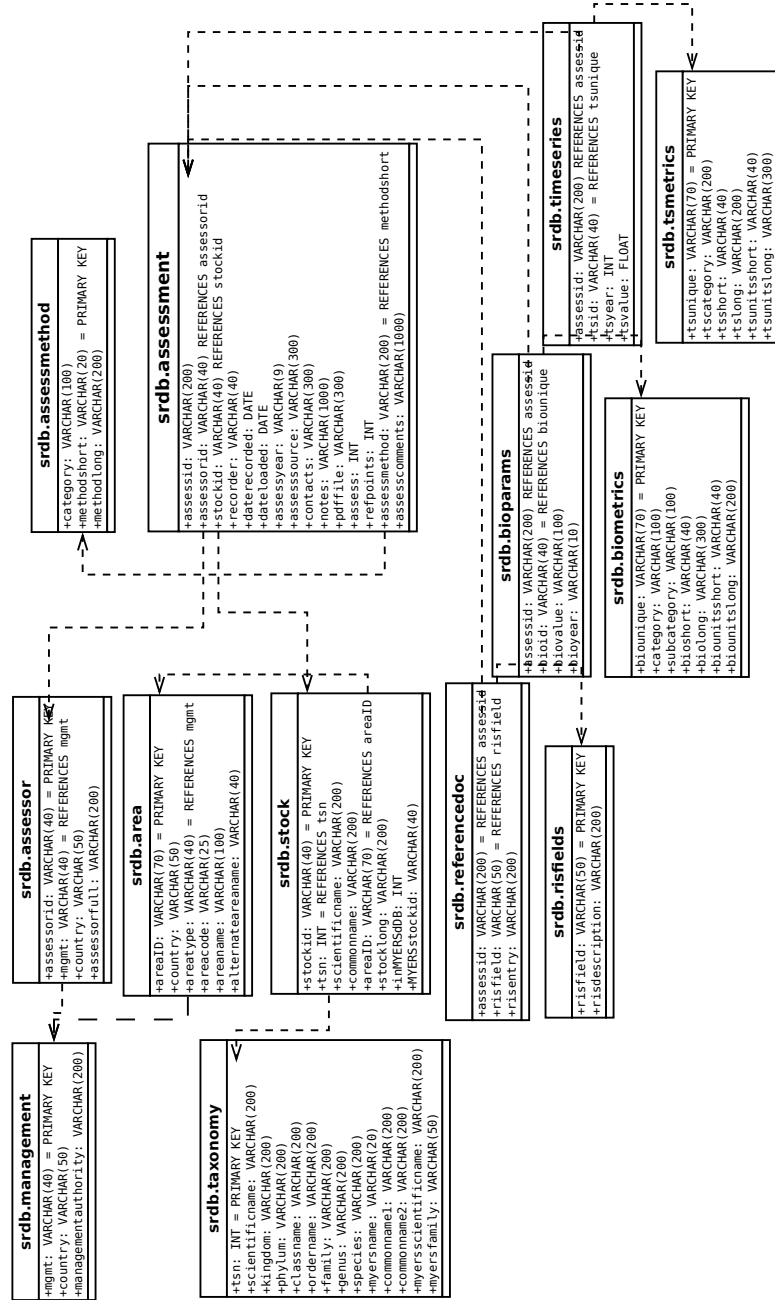


Figure 1: Entity relationship diagram of the RAM legacy database.

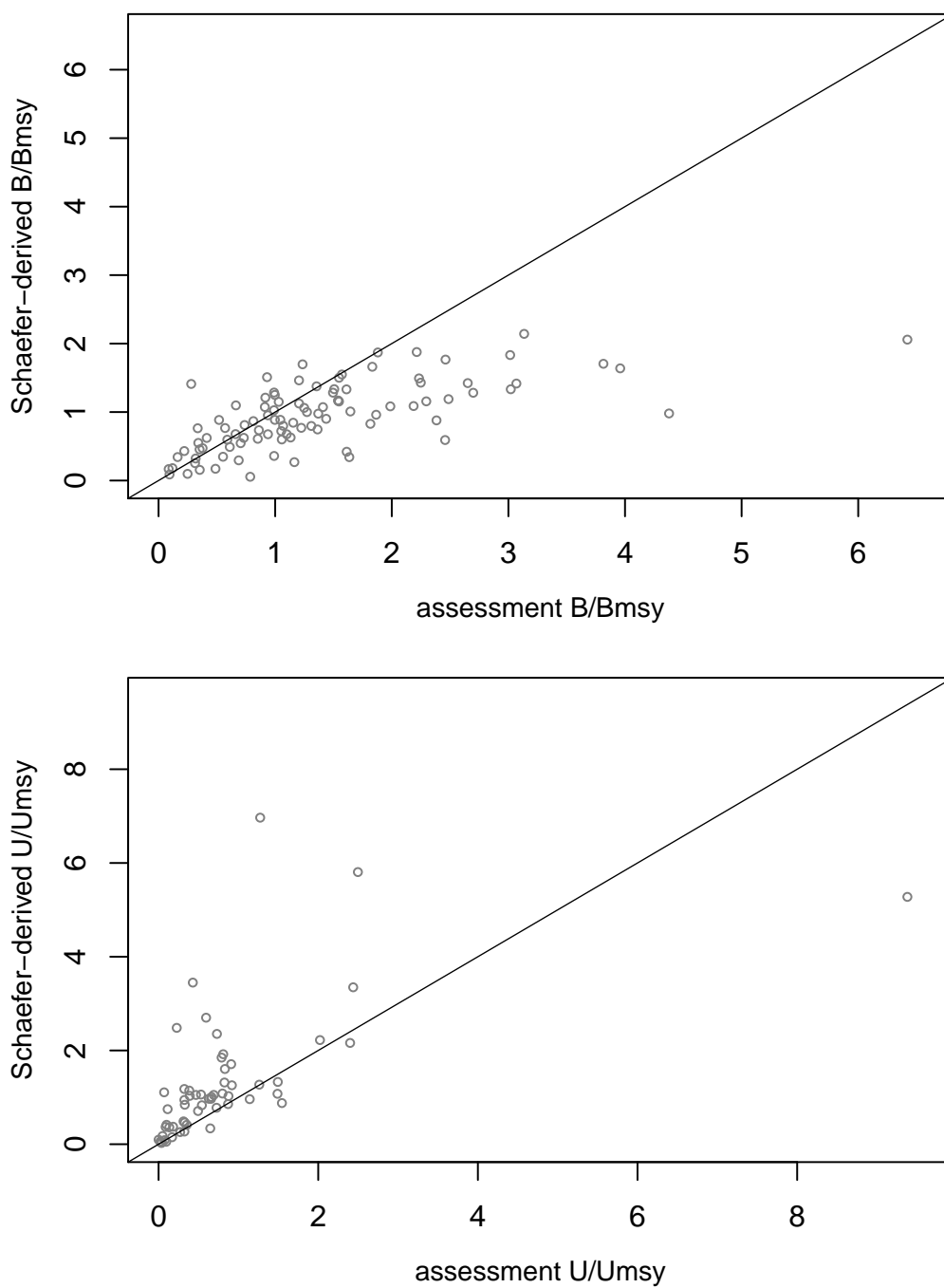


Figure 2: Comparison of assesment BRPs and Schaefer-derived BRPs.

Management	Stock ID	Scientific name	Methodology	Timespan	Current year	B ratio	B ratio from assessment	U ratio	U ratio from assessment	Ref.
AFMA	Bight redfish Southeast Australia	<i>Centroberyx gerrardi</i>	Integrated Analysis	1958-2007						[1]
AFMA	New Zealand ling Eastern half of Southeast Australia	<i>Genypterus blacodes</i>	Integrated Analysis	1968-2007	2007	0.59	yes	2.20	no	[2]
AFMA	New Zealand ling Western half of Southeast Australia	<i>Genypterus blacodes</i>	Integrated Analysis	1968-2007						[2]
AFMA	Orange roughly Cascade Plateau	<i>Hoplostethus atlanticus</i>	Integrated Analysis	1987-2006	2006	1.76	no	0.34	no	[3]
AFMA	Orange roughly Southeast Australia	<i>Hoplostethus atlanticus</i>	Integrated Analysis	1978-2007	2007	0.52	yes	0.29	no	[4]
AFMA	Jackass morwong Southeast Australia	<i>Nemadactylus macropterus</i>	Integrated Analysis	1913-2007	2007	0.31	yes	1.80	no	[5]
AFMA	Tiger flathead Southeast Australia	<i>Neoplatycephalus richardsoni</i>	Integrated Analysis	1913-2006	2006	1.99	yes	1.03	no	[6]
AFMA	Northern Australia brown tiger shrimp	<i>Penaeus esculentus</i>	Biomass dynamics model	1970-2006						[7]
AFMA	Northern Australia grooved Tiger Prawn	<i>Penaeus esculentus</i>	Biomass dynamics model	1970-2006						[7]
AFMA	Deepwater flathead Southeast Australia	<i>Platycephalus conatus</i>	Integrated Analysis	1978-2007	2007	1.51	yes	0.61	no	[1]
AFMA	Tasmanian giant crab Tasmania	<i>Pseudocarcinus gigas</i>	Unknown	1990-2007	2007	0.50	no	1.71	no	[8]
AFMA	common gemfish Southeast Australia	<i>Rezea solandri</i>	Integrated Analysis	1966-2007	2007	0.25	yes	0.39	no	[9]
AFMA	Blue Warehou Eastern half of Southeast Australia	<i>Seriotelella brama</i>	Integrated Analysis	1984-2006	2006	0.49	yes	0.84	no	[10]
AFMA	Blue Warehou Western half of Southeast Australia	<i>Seriotelella brama</i>	Integrated Analysis	1984-2006	2006	0.41	yes	2.04	no	[10]
AFMA	Silverfish Southeast Australia	<i>Seriotelella punctata</i>	Integrated Analysis	1978-2006	2006	1.03	yes	0.79	no	[11]
AFMA	School whiting Southeast Australia	<i>Sillago flindersi</i>	Integrated Analysis	1945-2007	2007	0.66	yes	0.82	no	[12]
CCAMLR	Antarctic toothfish Ross Sea	<i>Dissostichus mawsoni</i>	Integrated Analysis	1995-2007	2007	1.76	no	0.32	yes	[13]
CFP	Argentine anchoita Northern Argentina	<i>Engraulis anchoita</i>	VPA	1989-2007	2007	1.37	yes	0.17	yes	[14]
CFP	Argentine anchoita Southern Argentina	<i>Engraulis anchoita</i>	Biomass dynamics model	1992-2007	2007	3.13	yes	0.04	yes	[15]
CFP	Patagonian grenadier Southern Argentina	<i>Macruronus magellanicus</i>	VPA	1983-2006	2006	1.82	yes	0.60	yes	[16]
CFP	Argentine hake Northern Argentina	<i>Merluccius hubbsi</i>	VPA	1985-2007	2007	0.16	yes	1.26	yes	[17]
CFP	Argentine hake Southern Argentina	<i>Merluccius hubbsi</i>	VPA	1985-2008	2008	0.34	yes	1.49	yes	[18]
CFP	Southern blue whiting Southern Argentina	<i>Micromesistius australis</i>	VPA	1985-2007						[19]
DETMCM	Patagonian toothfish South Africa	<i>Dissostichus eleginoides</i>	Biomass dynamics model	1960-2008						[20]
DETMCM	Anchovy South Africa	<i>Engraulis encrasicolus</i>	Statistical catch at age model	1984-2006	2006	0.97	no	0.36	no	[21]
DETMCM	Kingklip South Africa	<i>Genypterus capensis</i>	Biomass dynamics model	1932-2008	2008	1.20	yes	0.55	no	[22]
DETMCM	South African abalone South Africa	<i>Haliotis midae</i>	Statistical catch at age model	1951-2008						[23]
DETMCM	South African west coast rock lobster South Africa Areas 1-2	<i>Jasus lalandii</i>	Statistical catch at age model	1910-2008						[24]
DETMCM	South African west coast rock lobster South Africa Areas 3-4	<i>Jasus lalandii</i>	Statistical catch at age model	1910-2008						[24]

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Management	Stock ID	Scientific name	Methodology	Timespan	Current year	B ratio	B ratio from assessment	U ratio	U ratio from assessment	Ref.
DETMCM	South African west coast rock lobster South Africa Areas 5-6	<i>Jasus lalandii</i>	Statistical catch at age model	1910-2008						[24]
DETMCM	South African west coast rock lobster South Africa Area 7	<i>Jasus lalandii</i>	Statistical catch at age model	1910-2008						[24]
DETMCM	South African west coast rock lobster South Africa Area 8	<i>Jasus lalandii</i>	Statistical catch at age model	1910-2008						[24]
DETMCM	Shallow-water cape hake South Africa	<i>Merluccius capensis</i>	Biomass dynamics model	1917-2008	2008	2.30	yes	0.40	no	[25]
DETMCM	Deep-water cape hake South Africa	<i>Merluccius paradoxus</i>	Biomass dynamics model	1917-2008						[25]
DETMCM	Southern spiny lobster South Africa South coast	<i>Palinurus gilchristi</i>	Statistical catch at age model	1973-2008	2008	0.51	no	1.50	no	[26]
DETMCM	Sardine South Africa	<i>Sardinops sagax</i>	Statistical catch at age model	1984-2006	2006	0.75	no	0.55	no	[27]
DETMCM	Cape horse mackerel South Africa South coast	<i>Trachurus capensis</i>	Biomass dynamics model	1950-2007	2007	1.47	no	0.76	no	[28]
DFO	Herring Scotian Shelf and Bay of Fundy	<i>Clupea harengus</i>	VPA	1965-2006						[29]
DFO	Herring NAFO 4R fall spawners	<i>Clupea harengus</i>	VPA	1971-2003						[30]
DFO	Herring NAFO 4R spring spawners	<i>Clupea harengus</i>	VPA	1963-2004						[30]
DFO	Herring NAFO 4T fall spawners	<i>Clupea harengus</i>	VPA	1974-2007						[31]
DFO	Herring NAFO 4T spring spawners	<i>Clupea harengus</i>	VPA	1974-2007						[31]
DFO	Pacific herring Central Coast	<i>Clupea pallasii</i>	Statistical catch at age model	1951-2007	2007	0.30	no	0.11	no	[32]
DFO	Pacific herring Prince Rupert District	<i>Clupea pallasii</i>	Statistical catch at age model	1951-2007	2007	0.16	no	0.32	no	[32]
DFO	Pacific herring Queen Charlotte Islands	<i>Clupea pallasii</i>	Statistical catch at age model	1951-2007	2007	0.20	no	0.00	no	[32]
DFO	Pacific herring Straight of Georgia	<i>Clupea pallasii</i>	Statistical catch at age model	1951-2007	2007	0.91	no	0.40	no	[32]
DFO	Pacific herring West Coast of Vancouver Island	<i>Clupea pallasii</i>	Statistical catch at age model	1951-2007	2007	0.03	no	0.00	no	[32]
DFO	Pacific cod Hecate Strait	<i>Gadus macrocephalus</i>	Biomass dynamics model	1956-2005	2004	0.37	no	0.25	no	[33]
DFO	Pacific cod West Coast of Vancouver Island	<i>Gadus macrocephalus</i>	Biomass dynamics model	1956-2002	2001	0.28	no	0.61	no	[34]
DFO	Atlantic cod NAFO 5Zjm	<i>Gadus morhua</i>	VPA	1978-2003	2002	0.34	no	0.45	no	[35]
DFO	Atlantic cod NAFO 2J3KL in-shore	<i>Gadus morhua</i>	VPA	1959-2006	2005	1.60	no	0.14	no	[36]
DFO	Atlantic cod NAFO 3Ps	<i>Gadus morhua</i>	VPA	1959-2004	2004	0.49	no	0.41	no	[37]
DFO	Atlantic cod NAFO 3Pn4RS	<i>Gadus morhua</i>	VPA	1964-2007	2006	0.09	no	0.79	no	[38]
DFO	Atlantic cod NAFO 4TVn	<i>Gadus morhua</i>	VPA	1965-2007	2006	0.17	no	0.32	no	[39]
DFO	Rock sole Hecate Strait	<i>Lepidopsetta bilineata</i>	Statistical catch at age model	1945-2001	2001	1.03	no	0.45	no	[40]
DFO	Haddock NAFO-4X5Y	<i>Melanogrammus aeglefinus</i>	VPA	1960-2003	2003	0.85	no	0.33	no	[41]
DFO	Haddock NAFO-5Zejm	<i>Melanogrammus aeglefinus</i>	VPA	1968-2003	2002	1.00	no	0.65	no	[42]
DFO	English sole Hecate Strait	<i>Parophrys vetulus</i>	Statistical catch at age model	1944-2001	2001	1.23	no	0.37	no	[40]
DFO	Pollock NAFO-4VWX5Zc	<i>Pollachius virens</i>	VPA	1974-2007	2006	0.56	no	0.30	no	[43]
IATTC	Yellowfin tuna Eastern Pacific	<i>Thunnus albacares</i>	Statistical catch at age model	1975-2007						[44]
IATTC	Bigeye tuna Eastern Pacific	<i>Thunnus obesus</i>	Integrated Analysis	1975-2007						[45]
ICCAT	Skipjack tuna Eastern Atlantic	<i>Katsuwonus pelamis</i>	Biomass dynamics model	1950-2006	2006	1.71	no	0.27	yes	[46]

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Management	Stock ID	Scientific name	Methodology	Timespan	Current year	B ratio	B ratio from assessment	U ratio	U ratio from assessment	Ref.
ICCAT	Skipjack tuna Western Atlantic	<i>Katsuwonus pelamis</i>	Biomass dynamics model	1952-2006	2006	1.72	no	0.32	yes	[46]
ICCAT	Albacore tuna North Atlantic	<i>Thunnus alalunga</i>	VPA	1929-2005	2005	0.81	yes	1.49	yes	[47]
ICCAT	Yellowfin tuna Atlantic	<i>Thunnus albacares</i>	VPA	1970-2006	2006	1.07	yes	0.81	yes	[46]
ICCAT	Bigeye tuna Atlantic	<i>Thunnus obesus</i>	Biomass dynamics model	1950-2005	2005	0.90	no	0.87	yes	[48]
ICCAT	Bluefin tuna Eastern Atlantic	<i>Thunnus thynnus</i>	VPA	1969-2007	2007	0.34	yes	9.38	yes	[49]
ICCAT	Bluefin tuna Western Atlantic	<i>Thunnus thynnus</i>	VPA	1969-2007	2007	0.57	yes	1.33	yes	[49]
ICCAT	Swordfish Mediterranean Sea	<i>Xiphias gladius</i>	Biomass dynamics model	1968-2006	2006	0.94	yes	1.27	yes	[50]
ICCAT	Swordfish North Atlantic	<i>Xiphias gladius</i>	Biomass dynamics model	1978-2007	2005	0.99	yes	0.88	yes	[51]
ICCAT	Swordfish South Atlantic	<i>Xiphias gladius</i>	Biomass dynamics model	1970-2005	2005	1.54	yes	0.49	yes	[51]
ICES	Sandeel North Sea	<i>Ammodytes marinus</i>	VPA	1983-2007	2007	0.92	no	0.24	no	[52]
ICES	Herring ICES 22-24-IIIa	<i>Clupea harengus</i>	Statistical catch at age model	1991-2006	2006	0.73	no	1.02	no	[53]
ICES	Herring Northern Irish Sea	<i>Clupea harengus</i>	Statistical catch at age model	1960-2006	2006	0.72	no	0.34	no	[53]
ICES	Herring North Sea	<i>Clupea harengus</i>	Statistical catch at age model	1960-2007	2006	0.65	no	1.32	no	[53]
ICES	Herring ICES VIa	<i>Clupea harengus</i>	Statistical catch at age model	1957-2006	2006	0.18	no	1.59	no	[53]
ICES	Herring ICES VIa-VIIb-VIIc	<i>Clupea harengus</i>	VPA	1969-2000	2000	0.50	no	1.04	no	[53]
ICES	Herring ICES 25-32	<i>Clupea harengus</i>	VPA	1973-2006	2006	0.69	no	0.79	no	[54]
ICES	Herring ICES 30	<i>Clupea harengus</i>	VPA	1972-2007	2006	1.19	no	1.10	no	[54]
ICES	Herring ICES 31	<i>Clupea harengus</i>	VPA	1979-2006	2006	0.29	no	1.60	no	[54]
ICES	Herring Iceland (Summer spawners)	<i>Clupea harengus</i>	VPA	1983-2007	2006	1.00	no	0.79	no	[55]
ICES	Herring ICES 28	<i>Clupea harengus</i>	VPA	1976-2007	2006	1.21	no	0.87	no	[54]
ICES	Anchovy ICES VIII	<i>Engraulis encrasicolus</i>	Biomass dynamics model	1986-2007						[56]
ICES	Atlantic cod coastal Norway	<i>Gadus morhua</i>	VPA	1982-2006	2006	0.27	no	2.17	no	[57]
ICES	Atlantic cod Northeast Arctic	<i>Gadus morhua</i>	VPA	1943-2006	2006	0.56	no	1.42	no	[57]
ICES	Atlantic cod Faroe Plateau	<i>Gadus morhua</i>	VPA	1959-2006	2006	0.26	no	1.52	no	[55]
ICES	Atlantic cod Iceland	<i>Gadus morhua</i>	Statistical catch at age model	1952-2006	2006	0.46	no	1.17	no	[55]
ICES	Atlantic cod Baltic Areas 22 and 24	<i>Gadus morhua</i>	VPA	1969-2007	2006	0.36	no	1.43	no	[54]
ICES	Atlantic cod Baltic Areas 25-32	<i>Gadus morhua</i>	VPA	1964-2007	2006	0.16	no	1.46	no	[54]
ICES	Atlantic cod Kattegat	<i>Gadus morhua</i>	VPA	1970-2006	2006	0.19	no	0.31	no	[54]
ICES	Atlantic cod Irish Sea	<i>Gadus morhua</i>	VPA	1968-2006	2006	0.15	no	0.56	no	[58]
ICES	Atlantic cod West of Scotland	<i>Gadus morhua</i>	Statistical catch at age model	1977-2006	2006	0.12	no	0.42	no	[58]
ICES	Atlantic cod North Sea	<i>Gadus morhua</i>	VPA	1962-2007	2006	0.19	no	0.80	no	[52]
ICES	Fourspotted megrim ICES VIIIc-IXa	<i>Lepidorhombus boscii</i>	VPA	1986-2006	2006	0.70	no	1.01	no	[59]
ICES	Megrim ICES VIIIc-IXa	<i>Lepidorhombus whiffiagonis</i>	VPA	1985-2007	2006	0.43	no	1.07	no	[59]
ICES	Capelin Barents Sea	<i>Mallotus villosus</i>	Unknown	1965-2007	2006	0.17	no	0.00	no	[57]
ICES	Capelin Iceland	<i>Mallotus villosus</i>	Survey index	1977-2007	2006	0.49	no	0.85	no	[55]
ICES	Haddock Northeast Arctic	<i>Melanogrammus aeglefinus</i>	VPA	1947-2006	2006	1.10	no	1.06	no	[57]
ICES	Haddock Faroe Plateau	<i>Melanogrammus aeglefinus</i>	VPA	1955-2006	2006	0.85	no	1.07	no	[55]
ICES	Haddock Iceland	<i>Melanogrammus aeglefinus</i>	VPA	1977-2007	2007	0.98	no	1.23	no	[55]
ICES	Haddock Irish Sea	<i>Melanogrammus aeglefinus</i>	Survey index	1972-2006						[58]
ICES	Haddock West of Scotland	<i>Melanogrammus aeglefinus</i>	Statistical catch at age model	1977-2006	2006	0.58	no	0.73	no	[58]
ICES	Haddock ICES IIIa and North Sea	<i>Melanogrammus aeglefinus</i>	VPA	1963-2006	2006	0.62	no	0.25	no	[52]
ICES	Haddock Rockall Bank	<i>Melanogrammus aeglefinus</i>	VPA	1990-2007	2006	1.10	no	0.52	no	[58]
ICES	Haddock ICES VIIb-k	<i>Melanogrammus aeglefinus</i>	VPA	1993-2006	2006	1.37	no	0.41	no	[60]
ICES	Whiting ICES VIa	<i>Merlangius merlangus</i>	Survey index	1984-2007						[58]
ICES	Whiting ICES IIIa, VIIId and North Sea	<i>Merlangius merlangus</i>	VPA	1979-2006	2006	0.33	no	1.04	no	[52]

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ICES	Whiting ICES VIIe-k	<i>Merlangius merlangus</i>	VPA	1982-2007	2006	0.44	no	1.25	no	[60]
ICES	Hake Northeast Atlantic North	<i>Merluccius merluccius</i>	VPA	1977-2007	2006	1.04	no	0.74	no	[59]
ICES	Hake Northeast Atlantic South	<i>Merluccius merluccius</i>	VPA	1982-2007						[59]
ICES	Whiting Northeast Atlantic	<i>Micromesistius poutassou</i>	Integrated Analysis	1980-2007	2006	0.67	no	1.66	no	[61]
ICES	European Plaice Irish Sea	<i>Pleuronectes platessa</i>	Statistical catch at age model	1962-2006	2006	1.07	no	0.23	no	[58]
ICES	European Plaice ICES VIId	<i>Pleuronectes platessa</i>	VPA	1979-2006						[52]
ICES	European Plaice ICES IIIa	<i>Pleuronectes platessa</i>	VPA	1976-2006						[52]
ICES	European Plaice North Sea	<i>Pleuronectes platessa</i>	VPA	1956-2006						[52]
ICES	European Plaice ICES VIIf-g	<i>Pleuronectes platessa</i>	VPA	1976-2006	2006	0.65	no	0.41	no	[60]
ICES	European Plaice ICES VIIe	<i>Pleuronectes platessa</i>	VPA	1975-2006	2006	0.51	no	1.39	no	[60]
ICES	Pollock Northeast Arctic	<i>Pollachius virens</i>	VPA	1957-2006	2006	1.70	no	0.60	no	[57]
ICES	Pollock Faroe Plateau	<i>Pollachius virens</i>	VPA	1958-2006	2006	0.99	no	1.52	no	[55]
ICES	Pollock ICES IIIa, VI and North Sea	<i>Pollachius virens</i>	VPA	1964-2006	2006	0.57	no	0.97	no	[52]
ICES	Greenland halibut Northeast Arctic	<i>Reinhardtius hippoglossoides</i>	VPA	1959-2007	2006	0.36	no	1.20	no	[57]
ICES	European pilchard ICES VIIIc-IXa	<i>Sardina pilchardus</i>	Statistical catch at age model	1978-2007						[62]
ICES	Mackerel ICES Northeast Atlantic	<i>Scomber scombrus</i>	Statistical catch at age model	1972-2007	2006	0.98	no	0.73	no	[62]
ICES	Golden Redfish Northeast Arctic	<i>Sebastes norvegicus</i>	Statistical catch at age model	1986-2006	2006	0.29	no	2.65	no	[57]
ICES	common European sole ICES Kattegat and Skagerrak	<i>Solea vulgaris</i>	VPA	1982-2007	2006	1.25	no	0.54	no	[54]
ICES	common European sole Bay of Biscay	<i>Solea vulgaris</i>	VPA	1982-2006	2006	0.76	no	1.00	no	[59]
ICES	common European sole Irish Sea	<i>Solea vulgaris</i>	VPA	1968-2006	2006	0.36	no	1.16	no	[58]
ICES	common European sole North Sea	<i>Solea vulgaris</i>	VPA	1956-2006						[52]
ICES	common European sole ICES VIId	<i>Solea vulgaris</i>	VPA	1981-2006						[52]
ICES	common European sole Celtic Sea	<i>Solea vulgaris</i>	VPA	1970-2006	2006	0.90	no	0.95	no	[60]
ICES	common European sole Western English Channel	<i>Solea vulgaris</i>	VPA	1968-2006	2006	0.51	no	1.74	no	[60]
ICES	Sprat North Sea	<i>Sprattus sprattus</i>	Statistical catch at age model	1995-2007						[53]
ICES	Sprat ICES Baltic Areas 22-32	<i>Sprattus sprattus</i>	VPA	1973-2007	2006	1.13	no	1.27	no	[54]
ICES	Norway pout North Sea	<i>Trisopterus esmarkii</i>	VPA	1983-2007	2006	0.90	no	0.33	no	[52]
IMARPE	Peruvian anchoveta North-Central Peru	<i>Engraulis ringens</i>	VPA	1963-2004						[63]
IOTC	Bigeye tuna Indian Ocean	<i>Thunnus obesus</i>	Biomass dynamics model	1957-2006	2004	1.23	yes	0.97	yes	[64]
IPHC	Pacific halibut North Pacific	<i>Hippoglossus stenolepis</i>	Statistical catch at age model	1988-2009	2008	0.54	no	2.01	no	[65]
MFish	Black oreo West end of Chatham Rise	<i>Allocyttus niger</i>	Integrated Analysis	1973-2007	2007	0.99	yes	0.82	yes	[66]
MFish	Australian salmon New Zealand	<i>Arripis trutta</i>	Integrated Analysis	1975-2006	2006	1.64	yes	0.33	yes	[66]
MFish	New Zealand snapper New Zealand Area 8	<i>Chrysophrys auratus</i>	Integrated Analysis	1931-2005	2005	0.35	yes	2.50	yes	[66]
MFish	New Zealand ling New Zealand Areas LIN 3 and 4	<i>Genypterus blacodes</i>	Integrated Analysis	1972-2007	2007	3.07	yes	0.09	yes	[66]
MFish	New Zealand ling New Zealand Areas LIN 5 and 6	<i>Genypterus blacodes</i>	Integrated Analysis	1972-2007	2007	3.96	yes	0.10	yes	[66]

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Management	Stock ID	Scientific name	Methodology	Timespan	Current year	B ratio	B ratio from assessment	U ratio	U ratio from assessment	Ref.
MFish	New Zealand ling New Zealand Area LIN 6b	<i>Genypterus blacodes</i>	Integrated Analysis	1980-2006	2006	2.19	yes	0.11	yes	[66]
MFish	New Zealand ling New Zealand Area LIN 72	<i>Genypterus blacodes</i>	Integrated Analysis	1972-2007	2007	2.49	yes	0.32	yes	[66]
MFish	New Zealand ling New Zealand Area LIN 7WC - WCSI	<i>Genypterus blacodes</i>	Integrated Analysis	1972-2008	2008	2.21	yes	0.13	yes	[66]
MFish	New Zealand abalone species New Zealand Area PAU 5A	<i>Haliotis iris</i>	Integrated Analysis	1964-2006	2006	0.72	no	2.83	no	[67]
MFish	New Zealand abalone species New Zealand Area PAU 5B	<i>Haliotis iris</i>	Integrated Analysis	1963-2007	2007	1.02	no	0.59	no	[68]
MFish	New Zealand abalone species New Zealand Area PAU 5D	<i>Haliotis iris</i>	Integrated Analysis	1964-2006	2006	0.44	no	2.10	no	[67]
MFish	New Zealand abalone species New Zealand Area PAU 7	<i>Haliotis iris</i>	Integrated Analysis	1964-2008	2008	0.87	no	0.94	no	[69]
MFish	Orange roughy New Zealand Mid East Coast	<i>Hoplostethus atlanticus</i>	Integrated Analysis	1981-2004	2004	1.20	yes	0.35	yes	[66]
MFish	Red rock lobster New Zealand area CRA1	<i>Jasus edwardsii</i>	Unknown	1945-2001	2001	1.14	no	0.88	no	[70]
MFish	Red rock lobster New Zealand area CRA2	<i>Jasus edwardsii</i>	Unknown	1945-2001	2001	0.53	no	2.12	no	[70]
MFish	Red rock lobster New Zealand area CRA3	<i>Jasus edwardsii</i>	Unknown	1945-2007						[70]
MFish	Red rock lobster New Zealand area CRA4	<i>Jasus edwardsii</i>	Unknown	1945-2005	2005	0.67	no	1.33	no	[70]
MFish	Red rock lobster New Zealand area CRA5	<i>Jasus edwardsii</i>	Unknown	1945-2002	2002	0.59	no	1.68	no	[70]
MFish	Red rock lobster New Zealand area CRA7	<i>Jasus edwardsii</i>	Unknown	1976-2005	2005	0.73	no	0.43	no	[70]
MFish	Red rock lobster New Zealand area CRA8	<i>Jasus edwardsii</i>	Unknown	1976-2005	2005	0.69	no	0.49	no	[70]
MFish	Hoki Eastern New Zealand	<i>Macruronus novaezelandiae</i>	Integrated Analysis	1972-2007	2007	1.11	no	0.33	no	[71]
MFish	Hoki Western New Zealand	<i>Macruronus novaezelandiae</i>	Integrated Analysis	1972-2007	2007	0.51	no	0.57	no	[71]
MFish	Southern hake Chatham Rise	<i>Merluccius australis</i>	Integrated Analysis	1975-2006	2006	1.77	yes	0.12	yes	[66]
MFish	Southern hake Sub-Antarctic	<i>Merluccius australis</i>	Integrated Analysis	1975-2007	2007	2.91	yes	0.11	yes	[66]
MFish	Southern blue whiting Campbell Island Rise	<i>Micromesistius australis</i>	Integrated Analysis	1979-2006	2006	1.15	yes	0.92	yes	[66]
MFish	Trevally New Zealand Areas TRE 7	<i>Pseudocaranx dentex</i>	Integrated Analysis	1944-2005	2005	1.44	yes	0.83	yes	[66]
MFish	Smooth oreo Chatham Rise	<i>Pseudocyttus maculatus</i>	Integrated Analysis	1979-2006	2006	2.25	yes	0.38	yes	[66]
MFish	Smooth oreo West end of Chatham Rise	<i>Pseudocyttus maculatus</i>	Integrated Analysis	1973-2004	2004	1.25	yes	0.53	yes	[66]
MFish	common gemfish New Zealand	<i>Rexea solandri</i>	Integrated Analysis	1952-2007	2006	1.64	yes	0.43	yes	[66]
NAFO	Atlantic cod NAFO 3M	<i>Gadus morhua</i>	VPA	1959-2008						[72]
NAFO	Atlantic cod NAFO 3NO	<i>Gadus morhua</i>	VPA	1953-2007	2006	0.02	no	0.27	no	[73]
NAFO	American Plaice NAFO-3LNO	<i>Hippoglossoides platessoides</i>	VPA	1955-2007	2006	0.08	no	0.77	no	[74]
NAFO	American Plaice NAFO-3M	<i>Hippoglossoides platessoides</i>	VPA	1960-2007	2007	0.13	no	0.00	no	[75]
NAFO	Yellowtail Flounder NAFO 3LNO	<i>Limanda ferruginea</i>	Biomass dynamics model	1960-2009	2007	1.62	no	0.15	no	[76]
NAFO	Redfish species NAFO 3LN	<i>Redfish species</i>	Biomass dynamics model	1959-2008	2008	1.88	yes	0.04	yes	[77]
NAFO	Redfish species NAFO 3M	<i>Redfish species</i>	VPA	1989-2006	2006	0.93	no	0.15	no	[78]
NAFO	Greenland halibut NAFO 23KLMNO	<i>Reinhardtius hippoglossoides</i>	VPA	1960-2006	2006	0.39	no	1.73	no	[79]
NMFS	Sablefish Eastern Bering Sea / Aleutian Islands / Gulf of Alaska	<i>Anoplopoma fimbria</i>	Statistical catch at age model	1956-2008	2008	1.05	yes	0.66	yes	[80]
NMFS	Sablefish Pacific Coast	<i>Anoplopoma fimbria</i>	Integrated Analysis	1900-2007	2007	0.84	no	0.69	yes	[81]

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Management	Stock ID	Scientific name	Methodology	Timespan	Current year	B ratio	B ratio from assessment	U ratio	U ratio from assessment	Ref.
NMFS	Ocean quahog Atlantic Coast	<i>Arctica islandica</i>	Biomass dynamics model	1978-2008						[82]
NMFS	Gray triggerfish Gulf of Mexico	<i>Balistes capriscus</i>	Biomass dynamics model	1981-2004						[83]
NMFS	Gulf menhaden Gulf of Mexico	<i>Brevoortia patronus</i>	Statistical catch at age model	1964-2004	2004	1.08	no	0.48	no	[84]
NMFS	Atlantic menhaden Atlantic	<i>Brevoortia tyrannus</i>	Statistical catch at age model	1940-2005	2005	0.47	no	0.97	no	[85]
NMFS	Blacknose shark Atlantic	<i>Carcharhinus acronotus</i>	Biomass dynamics model	1950-2005						[86]
NMFS	Finetooth shark Atlantic	<i>Carcharhinus isodon</i>	Biomass dynamics model	1976-2005						[86]
NMFS	Blacktip shark Atlantic	<i>Carcharhinus limbatus</i>	Biomass dynamics model	1981-2004						[87]
NMFS	Blacktip shark Gulf of Mexico	<i>Carcharhinus limbatus</i>	Biomass dynamics model	1981-2004						[87]
NMFS	Sandbar shark Atlantic	<i>Carcharhinus plumbeus</i>	Biomass dynamics model	1975-2004						[87]
NMFS	Black sea bass Mid-Atlantic Coast	<i>Centropristis striata</i>	Statistical catch at age model	1968-2007	2007	0.92	yes	0.67	no	[88]
NMFS	Snow crab Bering Sea	<i>Chionoecetes opilio</i>	Biomass dynamics model	1979-2008	2008	0.55	yes	1.49	no	[89]
NMFS	Atlantic herring Northwestern Atlantic Coast	<i>Clupea harengus</i>	Statistical catch at age model	1960-2005						[90]
NMFS	Pacific herring Prince William Sound	<i>Clupea pallasii</i>	Statistical catch at age model	1980-2006						[91]
NMFS	Pacific herring Sitka	<i>Clupea pallasii</i>	Statistical catch at age model	1978-2007						[91]
NMFS	Weakfish Atlantic Coast	<i>Cynoscion regalis</i>	VPA	1981-2008						[92]
NMFS	Petrale sole Northern Pacific Coast	<i>Eopsetta jordani</i>	Integrated Analysis	1910-2005	2005	1.87	yes	1.26	no	[93]
NMFS	Petrale sole Southern Pacific Coast	<i>Eopsetta jordani</i>	Integrated Analysis	1874-2005	2005	1.13	yes	0.61	no	[93]
NMFS	Red grouper Gulf of Mexico	<i>Epinephelus morio</i>	Statistical catch at age model	1986-2005	2005	1.27	yes	0.73	yes	[94]
NMFS	Snowy grouper Southern Atlantic coast	<i>Epinephelus niveatus</i>	Statistical catch at age model	1961-2002	2002	0.19	yes	3.08	yes	[95]
NMFS	Pacific cod Bering Sea and Aleutian Islands	<i>Gadus macrocephalus</i>	Integrated Analysis	1964-2008	2008	1.00	yes	0.93	no	[96]
NMFS	Pacific cod Gulf of Alaska	<i>Gadus macrocephalus</i>	Integrated Analysis	1964-2008	2008	0.91	yes	0.84	no	[97]
NMFS	Atlantic cod Georges Bank	<i>Gadus morhua</i>	VPA	1960-2008	2007	0.12	yes	0.72	no	[98]
NMFS	Atlantic cod Gulf of Maine	<i>Gadus morhua</i>	VPA	1893-2008	2007	1.46	no	2.40	yes	[99]
NMFS	Witch Flounder NAFO-5Y	<i>Glyptocephalus cynoglossus</i>	VPA	1982-2008	2007	0.30	yes	1.45	yes	[100]
NMFS	Rex sole Gulf of Alaska	<i>Glyptocephalus zachirus</i>	Statistical catch at age model	1979-2008						[101]
NMFS	Kelp greenling Oregon Coast	<i>Hexagrammos decagrammus</i>	Integrated Analysis	1979-2005						[102]
NMFS	Flathead sole Bering Sea and Aleutian Islands	<i>Hippoglossoides elassodon</i>	Statistical catch at age model	1977-2008	2008	1.83	yes	0.18	no	[?]
NMFS	Flathead sole Gulf of Alaska	<i>Hippoglossoides elassodon</i>	Statistical catch at age model	1978-2008						[?]
NMFS	American Plaice NAFO-5YZ	<i>Hippoglossoides platessoides</i>	VPA	1960-2008	2007	0.70	yes	0.30	no	[?]
NMFS	Atlantic Halibut NAFO-5YZ	<i>Hippoglossus hippoglossus</i>	Unknown	1800-2007						[?]
NMFS	American lobster Georges Bank	<i>Homarus americanus</i>	Biomass dynamics model	1981-2007						[?]
NMFS	American lobster Gulf of Maine	<i>Homarus americanus</i>	Biomass dynamics model	1981-2007						[?]
NMFS	American lobster Southern New England	<i>Homarus americanus</i>	Biomass dynamics model	1981-2007						[?]
NMFS	Northern shortfin squid Northwestern Atlantic Coast	<i>Illex illecebrosus</i>	Biomass dynamics model	1967-2005						[103]
NMFS	Northern rock sole Eastern Bering Sea and Aleutian Islands	<i>Lepidopsetta polyxystra</i>	Statistical catch at age model	1971-2008	2007	3.02	yes	0.21	yes	[?]
NMFS	Yellowfin sole Bering Sea and Aleutian Islands	<i>Limanda aspera</i>	Statistical catch at age model	1959-2008	2008	1.94	yes	0.62	yes	[?]

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Management	Stock ID	Scientific name	Methodology	Timespan	Current year	B ratio	B ratio from assessment	U ratio	U ratio from assessment	Ref.
NMFS	Yellowtail flounder Cape Cod / Gulf of Maine	<i>Limanda ferruginea</i>	VPA	1935-2008	2007	0.25	yes	1.73	yes	[104]
NMFS	Yellowtail flounder Georges Bank	<i>Limanda ferruginea</i>	VPA	1935-2008	2007	0.22	yes	1.14	yes	[105]
NMFS	Yellowtail Flounder Southern New England-Mid Atlantic	<i>Limanda ferruginea</i>	VPA	1935-2008	2007	0.13	yes	1.61	yes	[106]
NMFS	Golden king crab Aleutian Islands Eastern segment	<i>Lithodes aequispinus</i>	Statistical catch at length model	1990-2007						[89]
NMFS	Golden king crab Aleutian Islands Western segment	<i>Lithodes aequispinus</i>	Statistical catch at length model	1989-2007						[89]
NMFS	Monkfish Gulf of Maine / Northern Georges Bank	<i>Lophius americanus</i>	Unknown	1964-2006	2006	1.73	no	0.38	no	[107]
NMFS	Monkfish Southern Georges Bank / Mid-Atlantic	<i>Lophius americanus</i>	Unknown	1964-2006	2006	1.72	no	0.30	no	[108]
NMFS	Tilefish Mid-Atlantic Coast	<i>Lopholatilus chamaeleonticeps</i>	Biomass dynamics model	1973-2008	2005	0.72	no	0.61	no	[109]
NMFS	Tilefish Southern Atlantic coast	<i>Lopholatilus chamaeleonticeps</i>	Statistical catch at age model	1961-2002	2002	0.90	yes	1.55	yes	[?]
NMFS	Mutton snapper Southern Atlantic coast and Gulf of Mexico	<i>Lutjanus analis</i>	Statistical catch at age model	1981-2006						[110]
NMFS	Red snapper Eastern Gulf of Mexico	<i>Lutjanus campechanus</i>	Statistical catch at age model	1872-2003						[111]
NMFS	Red snapper Southern Atlantic coast	<i>Lutjanus campechanus</i>	Statistical catch at age model	1945-2006						[112]
NMFS	Red snapper Western Gulf of Mexico	<i>Lutjanus campechanus</i>	Statistical catch at age model	1880-2003						[111]
NMFS	Haddock NAFO-5Y	<i>Melanogrammus aeglefinus</i>	VPA	1956-2008	2007	0.99	yes	1.21	no	[113]
NMFS	Haddock Georges Bank	<i>Melanogrammus aeglefinus</i>	VPA	1930-2008						[114]
NMFS	Silver hake Gulf of Maine / Northern Georges Bank	<i>Merluccius bilinearis</i>	Survey index	1955-2005						[115]
NMFS	Silver hake Southern Georges Bank / Mid-Atlantic	<i>Merluccius bilinearis</i>	Survey index	1955-2005						[115]
NMFS	Pacific hake Pacific Coast	<i>Merluccius productus</i>	Integrated Analysis	1966-2008	2008	1.61	yes	0.73	yes	[116]
NMFS	Atlantic croaker Mid-Atlantic Coast	<i>Micropogonias undulatus</i>	Biomass dynamics model	1973-2002	2002	1.42	yes	0.27	yes	[?]
NMFS	Dover sole Gulf of Alaska	<i>Microstomus pacificus</i>	Statistical catch at age model	1978-2010						[?]
NMFS	Dover sole Pacific Coast	<i>Microstomus pacificus</i>	Integrated Analysis	1910-2005	2005	1.61	yes	0.45	no	[?]
NMFS	Striped bass Gulf of Maine / Cape Hatteras	<i>Morone saxatilis</i>	Statistical catch at age model	1982-2006						[?]
NMFS	Gag Gulf of Mexico	<i>Mycteroperca microlepis</i>	Unknown	1963-2004	2004	1.00	yes	2.44	yes	[117]
NMFS	Gag Southern Atlantic coast	<i>Mycteroperca microlepis</i>	Statistical catch at age model	1962-2005	2005	0.94	yes	1.31	yes	[118]
NMFS	Yellowtail snapper Southern Atlantic Coast and Gulf of Mexico	<i>Ocyurus chrysurus</i>	Statistical catch at age model	1962-2001	2001	1.14	yes	0.61	yes	[?]
NMFS	Lingcod Northern Pacific Coast	<i>Ophiodon elongatus</i>	Integrated Analysis	1956-2005						[?]
NMFS	Lingcod Southern Pacific Coast	<i>Ophiodon elongatus</i>	Integrated Analysis	1956-2005						[?]
NMFS	Red porgy Southern Atlantic coast	<i>Pagrus pagrus</i>	Statistical catch at age model	1972-2004	2004	0.61	yes	0.39	yes	[119]
NMFS	Northern shrimp Gulf of Maine	<i>Pandalus borealis</i>	Statistical catch at age model	1960-2009	2008	1.58	no	0.56	no	[?]
NMFS	Summer flounder Mid-Atlantic Coast	<i>Paralichthys dentatus</i>	Statistical catch at age model	1940-2007						[120]
NMFS	Red king crab Bristol Bay	<i>Paralithodes camtschaticus</i>	Statistical catch at length model	1960-2008	2008	1.27	yes	1.05	yes	[89]
NMFS	Red king crab Norton Sound	<i>Paralithodes camtschaticus</i>	Statistical catch at length model	1976-2008						[89]

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NMFS	English sole Pacific Coast	<i>Parophrys vetulus</i>	Integrated Analysis	1876-2007	2007	6.42	yes	0.14	no	[121]
NMFS	Atlantic butterfish Gulf of Maine / Cape Hatteras	<i>Peprius triacanthus</i>	Unknown	1965-2005						[122]
NMFS	Sea scallop Georges Bank	<i>Placopecten magellanicus</i>	Statistical catch at length model	1964-2006	2006	1.59	no	0.78	no	[123]
NMFS	Sea scallop Mid-Atlantic Coast	<i>Placopecten magellanicus</i>	Statistical catch at length model	1964-2006	2006	1.00	no	0.36	no	[123]
NMFS	Starry flounder Northern Pacific Coast	<i>Platichthys stellatus</i>	Integrated Analysis	1970-2005	2005	1.10	yes	0.33	no	[?]
NMFS	Starry flounder Southern Pacific Coast	<i>Platichthys stellatus</i>	Integrated Analysis	1970-2005	2005	1.55	yes	0.12	no	[?]
NMFS	Atka mackerel Bering Sea and Aleutian Islands	<i>Pleurogrammus monopterygius</i>	Statistical catch at age model	1976-2009	2009	1.55	yes	0.55	no	[?]
NMFS	Alaska plaice Bering Sea and Aleutian Islands	<i>Pleuronectes quadrituberculatus</i>	Statistical catch at age model	1972-2008	2008	2.46	yes	0.07	yes	[?]
NMFS	Pollock NAFO-5YZ	<i>Pollachius virens</i>	Survey index	1963-2007						[124]
NMFS	Bluefish Atlantic Coast	<i>Pomatomus saltatrix</i>	Statistical catch at age model	1981-2007	2007	0.81	no	0.79	yes	[125]
NMFS	Winter Flounder NAFO-5Z	<i>Pseudopleuronectes americanus</i>	VPA	1982-2007	2006	0.28	yes	0.25	no	[126]
NMFS	Winter Flounder NAFO-5Y	<i>Pseudopleuronectes americanus</i>	Unknown	1982-2008						[124]
NMFS	Winter Flounder Southern New England-Mid Atlantic	<i>Pseudopleuronectes americanus</i>	VPA	1940-2007	2007	0.09	yes	1.10	no	[127]
NMFS	Longnose skate Pacific Coast	<i>Raja rhina</i>	Integrated Analysis	1915-2007	2007	1.56	no	0.40	no	[?]
NMFS	Greenland turbot Bering Sea and Aleutian Islands	<i>Reinhardtius hippoglossoides</i>	Statistical catch at age model	1960-2009	2009	1.48	yes	0.05	yes	[?]
NMFS	Arrowtooth flounder Bering Sea and Aleutian Islands	<i>Reinhardtius stomias</i>	Statistical catch at age model	1970-2008	2008	2.70	yes	0.31	no	[?]
NMFS	Arrowtooth flounder Gulf of Alaska	<i>Reinhardtius stomias</i>	Statistical catch at age model	1958-2010	2010	3.02	yes	0.28	no	[?]
NMFS	Arrowtooth flounder Pacific Coast	<i>Reinhardtius stomias</i>	Integrated Analysis	1916-2007	2007	3.81	yes	0.21	yes	[?]
NMFS	Atlantic sharpnose shark Atlantic	<i>Rhizoprionodon terraenovae</i>	Biomass dynamics model	1950-2005						[86]
NMFS	Vermilion snapper Gulf of Mexico	<i>Rhomboplites aurorubens</i>	Biomass dynamics model	1981-2004						[128]
NMFS	Vermilion snapper Southern Atlantic coast	<i>Rhomboplites aurorubens</i>	Statistical catch at age model	1946-2008	2007	0.86	yes	1.27	yes	[?]
NMFS	Pacific sardine North Pacific	<i>Sardinops sagax</i>	Statistical catch at age model	1981-2008	2006	1.73	no	0.37	no	[?]
NMFS	Pacific sardine Pacific Coast	<i>Sardinops sagax</i>	Integrated Analysis	1981-2007	2006	1.36	no	0.41	no	[129]
NMFS	Pacific chub mackerel Pacific Coast	<i>Scomber japonicus</i>	Statistical catch at age model	1929-2008						[130]
NMFS	King mackerel Gulf of Mexico	<i>Scomberomorus cavalla</i>	VPA	1992-2001	2001	0.93	yes	0.44	no	[131]
NMFS	King mackerel Southern Atlantic Coast	<i>Scomberomorus cavalla</i>	VPA	1981-2001	2001	1.35	yes	0.56	no	[131]
NMFS	Spanish mackerel Southern Atlantic Coast	<i>Scomberomorus maculatus</i>	Statistical catch at age model	1950-2008	2007	0.38	yes	0.91	yes	[132]
NMFS	Atlantic mackerel Gulf of Maine / Cape Hatteras	<i>Scomber scombrus</i>	VPA	1960-2005						[133]
NMFS	Windowpane flounder - Gulf of Maine / Georges Bank	<i>Scophthalmus aquosus</i>	Survey index	1975-2007						[134]
NMFS	Windowpane Southern New England-Mid Atlantic	<i>Scophthalmus aquosus</i>	Survey index	1975-2007						[124]
NMFS	California scorpionfish Southern California	<i>Scorpaena guttata</i>	Statistical catch at age model	1990-2005						[135]
NMFS	Cabezon Northern California	<i>Scorpaenichthys marmoratus</i>	Integrated Analysis	1916-2005	2005	1.04	yes	0.99	no	[?]

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Management	Stock ID	Scientific name	Methodology	Timespan	Current year	B ratio	B ratio from assessment	U ratio	U ratio from assessment	Ref.
NMFS	Cabazon Southern California	<i>Scorpaenichthys marmoratus</i>	Integrated Analysis	1932-2005	2005	0.74	yes	0.53	no	[?]
NMFS	Rougheye rockfish Bering Sea and Aleutian Islands	<i>Sebastes aleutianus</i>	Statistical catch at age model	1974-2009						[?]
NMFS	Rougheye rockfish Gulf of Alaska	<i>Sebastes aleutianus</i>	Statistical catch at age model	1974-2007						[?]
NMFS	Pacific Ocean perch Eastern Bering Sea and Aleutian Islands	<i>Sebastes alutus</i>	Statistical catch at age model	1974-2009	2009	1.23	yes	0.26	no	[?]
NMFS	Pacific ocean perch Gulf of Alaska	<i>Sebastes alutus</i>	Statistical catch at age model	1959-2008	2008	1.16	yes	0.73	yes	[?]
NMFS	Pacific ocean perch Pacific Coast	<i>Sebastes alutus</i>	Statistical catch at age model	1953-2007	2007	0.69	yes	0.00	yes	[?]
NMFS	Shortraker rockfish Bering Sea and Aleutian Islands	<i>Sebastes borealis</i>	Statistical catch at age model	1977-2008						[?]
NMFS	Gopher rockfish Southern Pacific Coast	<i>Sebastes carnatus</i>	Integrated Analysis	1965-2005	2005	2.38	yes	0.62	no	[?]
NMFS	Darkblotched rockfish Pacific Coast	<i>Sebastes crameri</i>	Integrated Analysis	1928-2007	2007	0.73	yes	0.31	yes	[?]
NMFS	Widow rockfish Pacific Coast	<i>Sebastes entomelas</i>	Statistical catch at age model	1955-2006	2006	0.91	no	0.05	yes	[136]
NMFS	Acadian redfish Gulf of Maine / Georges Bank	<i>Sebastes fasciatus</i>	Statistical catch at age model	1913-2007						[137]
NMFS	Yellowtail rockfish Northern Pacific Coast	<i>Sebastes flavidus</i>	Integrated Analysis	1967-2005	2005	1.36	yes	0.51	no	[?]
NMFS	Chillipepper Southern Pacific Coast	<i>Sebastes goodei</i>	Integrated Analysis	1892-2007	2006	1.43	no	0.04	yes	[?]
NMFS	Shortbelly rockfish Pacific Coast	<i>Sebastes jordani</i>	Integrated Analysis	1950-2005						[?]
NMFS	Cowcod Southern California	<i>Sebastes levis</i>	Integrated Analysis	1900-2007	2007	0.09	yes	0.07	yes	[?]
NMFS	Black rockfish Northern Pacific Coast	<i>Sebastes melanops</i>	Integrated Analysis	1914-2006	2006	1.37	no	0.47	yes	[?]
NMFS	Black rockfish Southern Pacific Coast	<i>Sebastes melanops</i>	Integrated Analysis	1915-2007	2007	2.23	yes	0.33	yes	[?]
NMFS	Blackgill rockfish Pacific Coast	<i>Sebastes melanostomus</i>	Integrated Analysis	1950-2005	2005	1.31	yes	1.20	no	[?]
NMFS	Blue rockfish California	<i>Sebastes mystinus</i>	Integrated Analysis	1916-2007	2007	0.75	yes	1.19	yes	[?]
NMFS	Bocaccio Southern Pacific Coast	<i>Sebastes paucispinis</i>	Integrated Analysis	1951-2006	2006	0.32	yes	0.10	yes	[?]
NMFS	Canary rockfish Pacific Coast	<i>Sebastes pinniger</i>	Integrated Analysis	1916-2007	2007	0.85	yes	0.02	yes	[138]
NMFS	Northern rockfish Bering Sea and Aleutian Islands	<i>Sebastes polyspinis</i>	Statistical catch at age model	1974-2009	2009	1.41	yes	0.13	no	[?]
NMFS	Northern rockfish Gulf of Alaska	<i>Sebastes polyspinis</i>	Statistical catch at age model	1959-2008	2008	1.50	yes	0.66	yes	[?]
NMFS	Yelloweye rockfish Pacific Coast	<i>Sebastes ruberrimus</i>	Integrated Analysis	1923-2006	2006	0.38	no	0.65	yes	[139]
NMFS	Dusky rockfish Gulf of Alaska	<i>Sebastes variabilis</i>	Statistical catch at age model	1973-2008	2007	1.54	yes	0.54	yes	[?]
NMFS	Shortspine thornyhead Pacific Coast	<i>Sebastolobus alascanus</i>	Integrated Analysis	1901-2005	2005	1.57	yes	0.93	no	[?]
NMFS	Longspine thornyhead Pacific Coast	<i>Sebastolobus altivelis</i>	Integrated Analysis	1962-2005	2005	2.65	yes	0.23	yes	[?]
NMFS	Greater amberjack Gulf of Mexico	<i>Seriola dumerili</i>	Biomass dynamics model	1986-2004	2004	0.46	no	1.52	no	[140]
NMFS	Greater amberjack Southern Atlantic coast	<i>Seriola dumerili</i>	Statistical catch at age model	1946-2006						[141]
NMFS	Bonnethead shark Atlantic	<i>Sphyrna tiburo</i>	Biomass dynamics model	1950-2005						[86]
NMFS	Atlantic surfclam Mid-Atlantic Coast	<i>Spisula solidissima</i>	Biomass dynamics model	1965-2008	1994	1.85	no	0.18	yes	[142]

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Management	Stock ID	Scientific name	Methodology	Timespan	Current year	B ratio	B ratio from assessment	U ratio	U ratio from assessment	Ref.
NMFS	Spiny dogfish Atlantic Coast	<i>Squalus acanthias</i>	Unknown	1962-2006	2005	1.61	no	0.15	no	[143]
NMFS	Scup Atlantic Coast	<i>Stenotomus chrysops</i>	Statistical catch at age model	1960-2007						[144]
NMFS	Walleye pollock Aleutian Islands	<i>Theragra chalcogramma</i>	Statistical catch at age model	1976-2008	2008	0.86	yes	0.02	yes	[?]
NMFS	Walleye pollock Eastern Bering Sea	<i>Theragra chalcogramma</i>	Statistical catch at age model	1963-2008	2008	0.66	yes	0.85	no	[?]
NMFS	Walleye pollock Gulf of Alaska	<i>Theragra chalcogramma</i>	Statistical catch at age model	1964-2008						[?]
NMFS	White hake Georges Bank / Gulf of Maine	<i>Urophycis tenuis</i>	Biomass dynamics model	1963-2007	2007	0.35	yes	0.80	yes	[145]
RFFA	Walleye pollock Northern Sea of Okhotsk	<i>Theragra chalcogramma</i>	Biomass dynamics model	1985-1994	1992	1.11	no	0.63	yes	[146]
RFFA	Walleye pollock Western Bering Sea	<i>Theragra chalcogramma</i>	VPA	1994-2004	2004	2.16	no	0.26	no	[147]
SPRFMO	Chilean jack mackerel Chilean EEZ and offshore	<i>Trachurus murphyi</i>	Unknown	1975-2007	2006	0.52	no	1.20	no	[148]
UNKNOWN	Shortfin mako Northwest Pacific Ocean	<i>Isurus oxyrinchus</i>	VPA	1990-2003						[149]
US State	American lobster Rhode Island	<i>Homarus americanus</i>	Biomass dynamics model	1959-2007	2006	0.53	no	0.67	no	[?]
US State	Winter flounder Rhode Island	<i>Pseudopleuronectes americanus</i>	Biomass dynamics model	1959-2007	2006	0.25	no	2.02	yes	[?]
US State	Tautog Rhode Island	<i>Tautoga onitis</i>	Biomass dynamics model	1959-2007	2006	0.84	no	0.59	no	[?]
WCPFC	Skipjack tuna Central Western Pacific	<i>Katsuwonus pelamis</i>	Statistical catch at age model	1972-2006	2006	4.38	yes	0.30	yes	[150]
WCPFC	Albacore tuna South Pacific Ocean	<i>Thunnus alalunga</i>	Statistical catch at age model	1959-2006	2006	2.46	yes	0.90	yes	[151]
WCPFC	Yellowfin tuna Central Western Pacific	<i>Thunnus albacares</i>	Statistical catch at age model	1952-2005	2005	1.22	yes	0.80	yes	[152]
WCPFC	Bigeye tuna Western Pacific Ocean	<i>Thunnus obesus</i>	Statistical catch at age model	1952-2006	2006	1.06	yes	1.38	yes	[153]

Table 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.

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