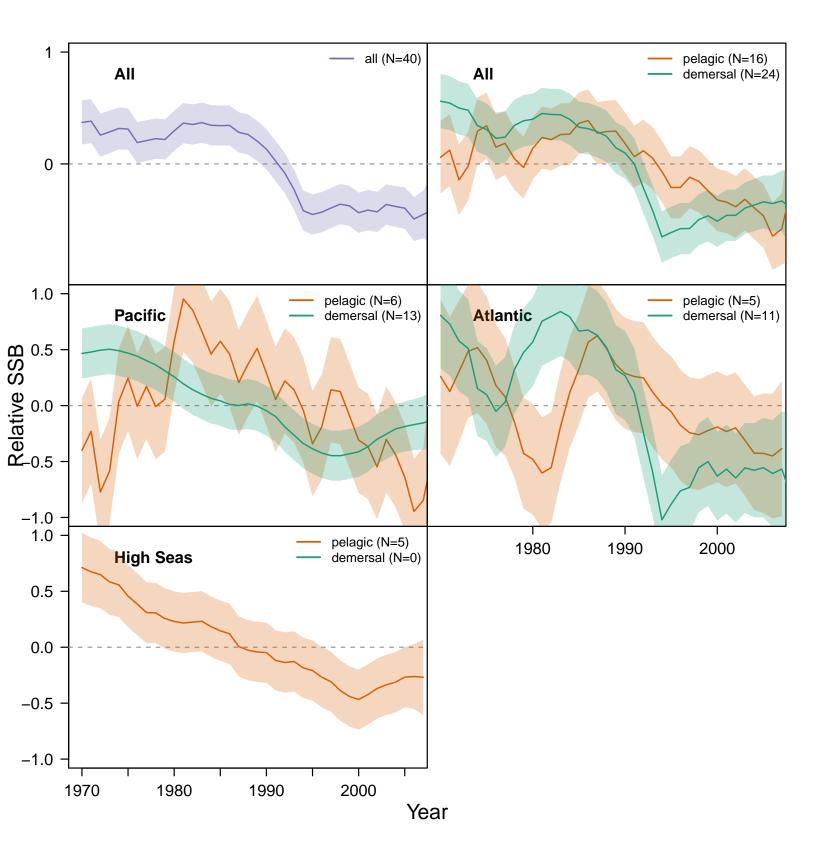
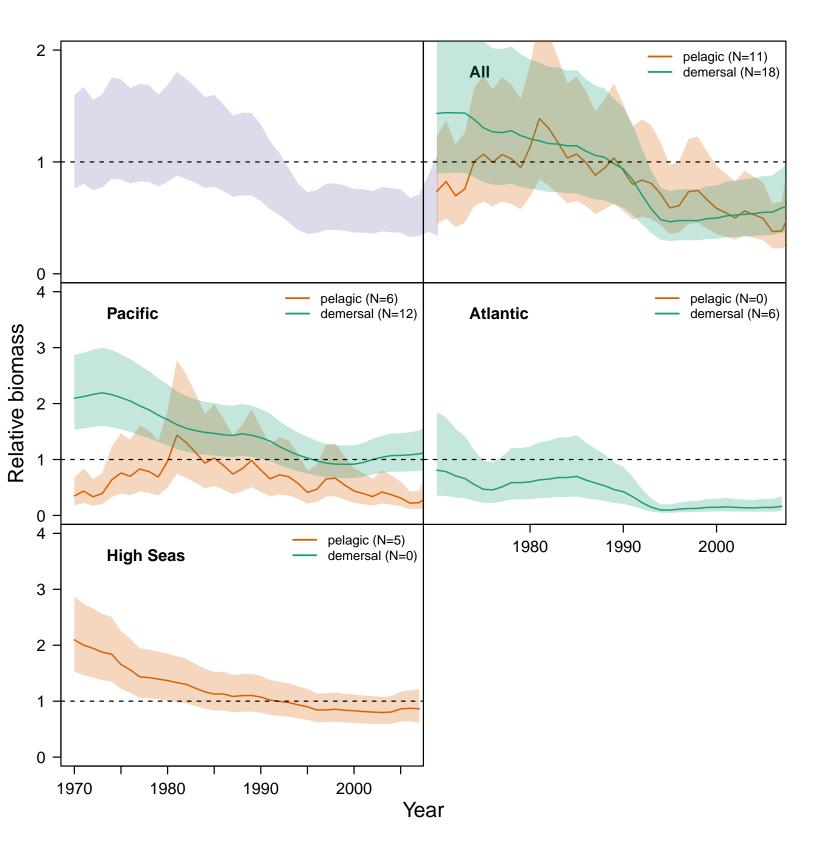
## Stocks of Canadian interest (for the Royal Society of Canada - Expert Panel on Oceans Health and Biodiversity)

Jeffrey Hutchings \* Daniel Ricard April 14, 2011

## 1 Summary plots

<sup>\*</sup>Dalhousie University, Halifax, NS, Canada



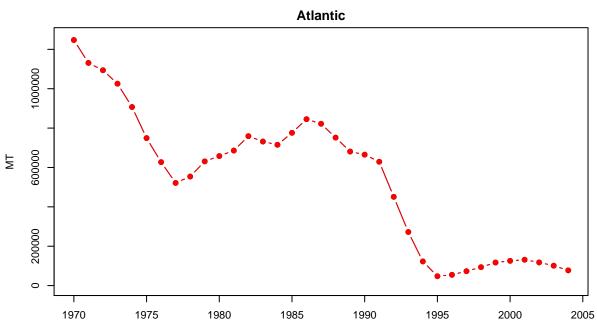


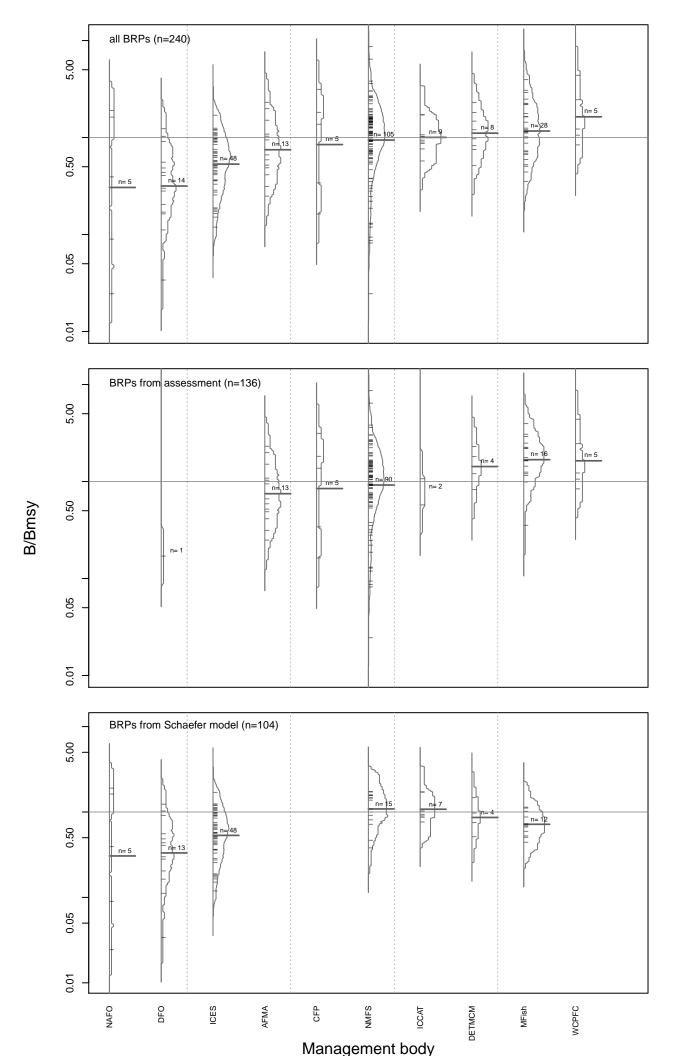
region	category	n	index.start	index.end	percent.decline
All	All	40	1.38	0.66	52.04
All	Pelagic	16	1.08	0.65	39.79
All	Demersal	24	1.63	0.68	58.12
NWAtl	Pelagic	5	1.42	0.7	50.69
NWAtl	Demersal	11	1.78	0.56	68.88
NEPac	Pelagic	6	0.7	0.58	18.34
NEPac	Demersal	13	1.63	0.8	50.83
HighSeas	Pelagic	5	1.89	0.73	61.14
HighSeas	Demersal	0			

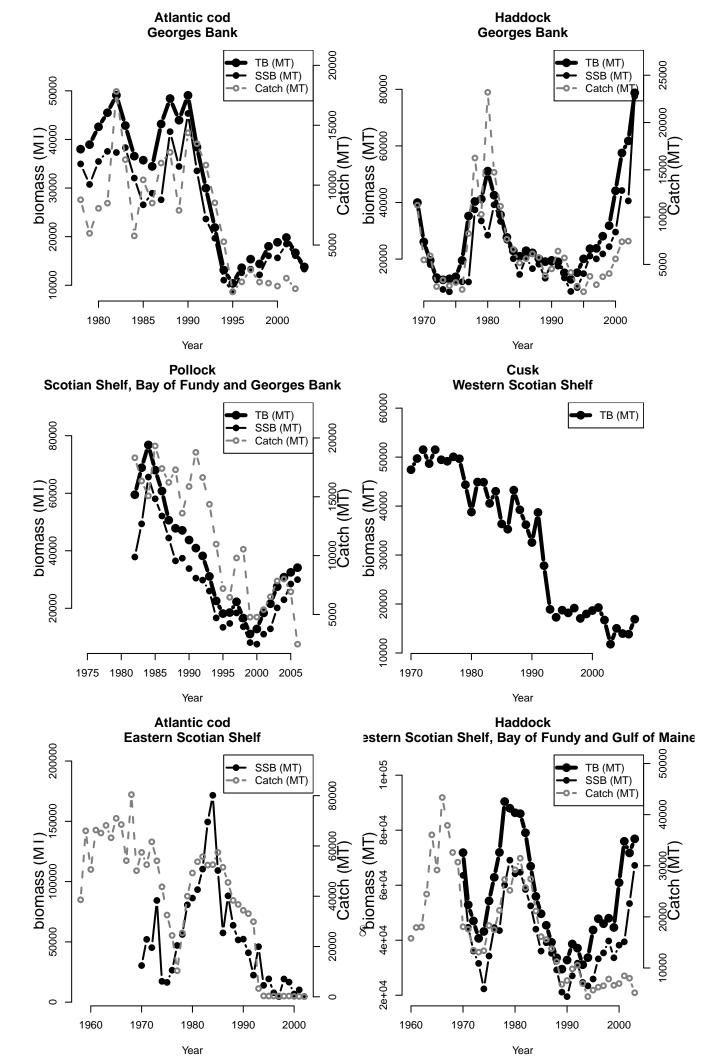
Table 1: Percent changes for SSB relative to mean SSB index

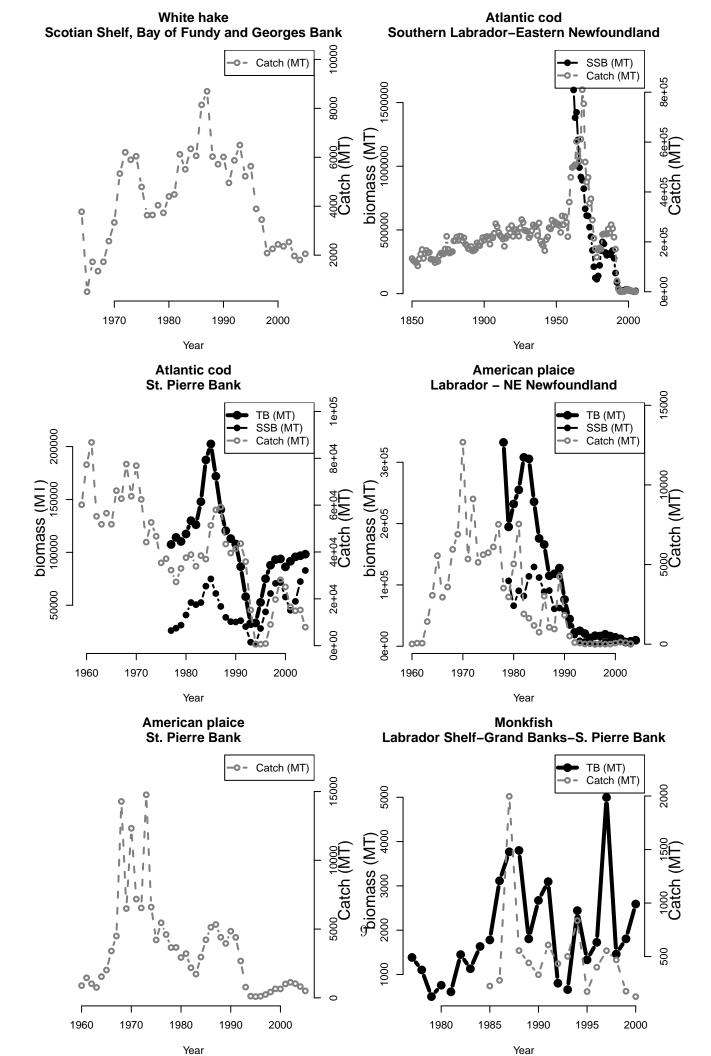
region	category	n	index.start	index.end	percent.decline
All	All	29	1.13	0.52	54.35
All	Pelagic	11	0.8	0.49	38.72
All	Demersal	18	1.43	0.54	62.2
NWAtl	Pelagic	0			
NWAtl	Demersal	6	0.7	0.14	80
NEPac	Pelagic	6	0.43	0.33	22.74
NEPac	Demersal	12	2.15	1.05	50.93
HighSeas	Pelagic	5	1.95	0.83	57.54
HighSeas	Demersal	0			

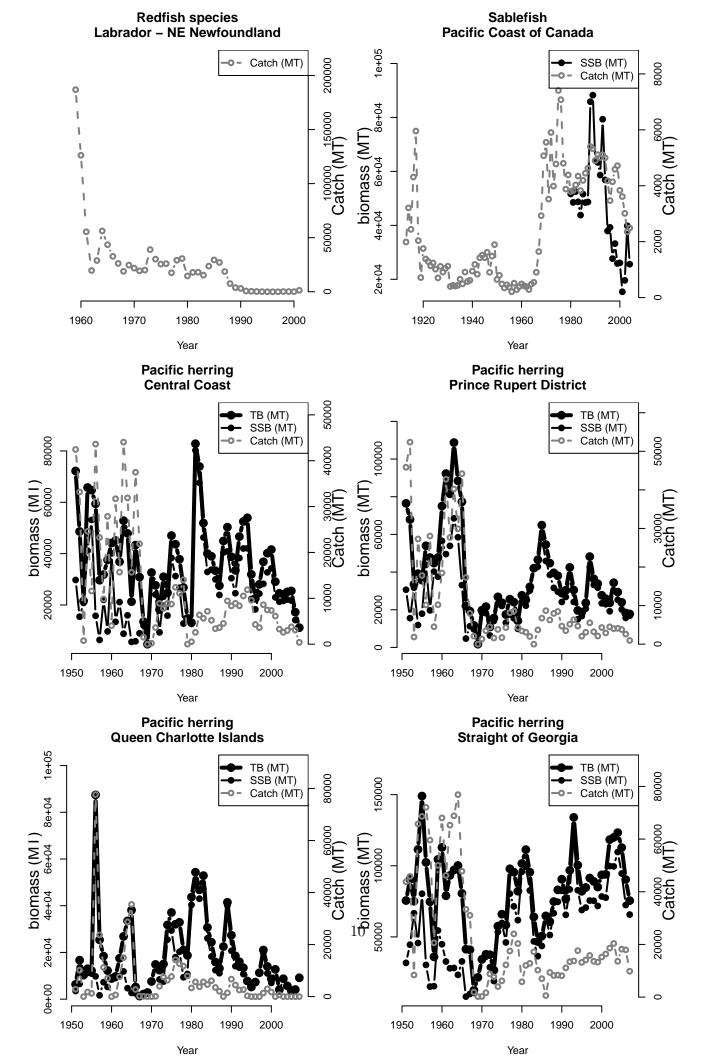
Table 2: Percent changes for SSB/SSBmsy index

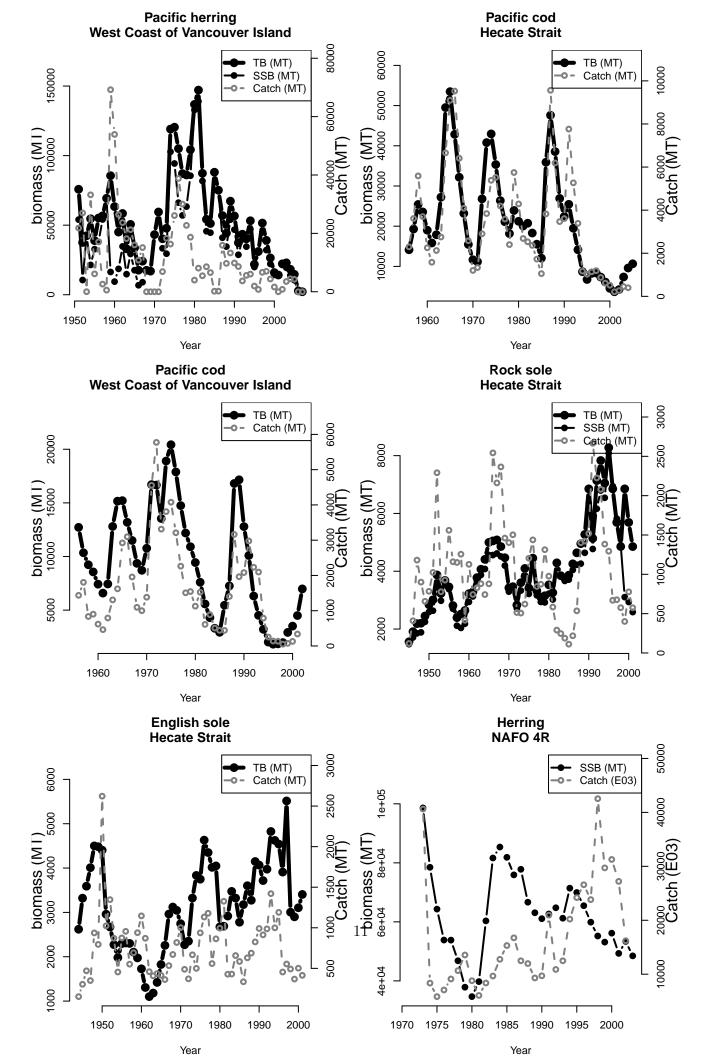


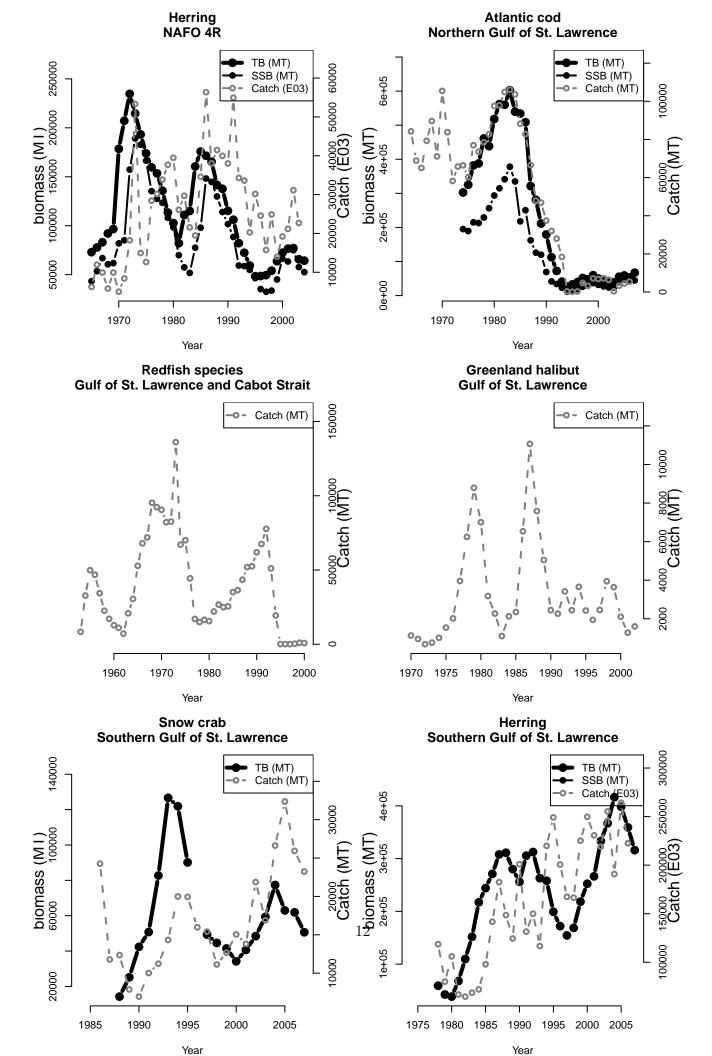


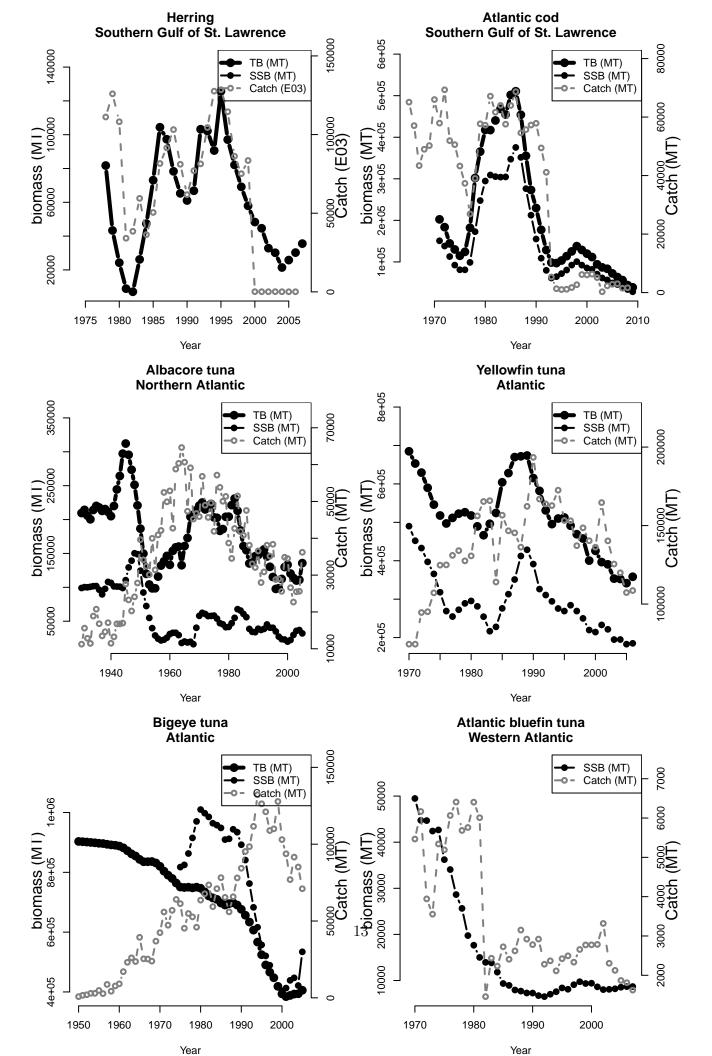


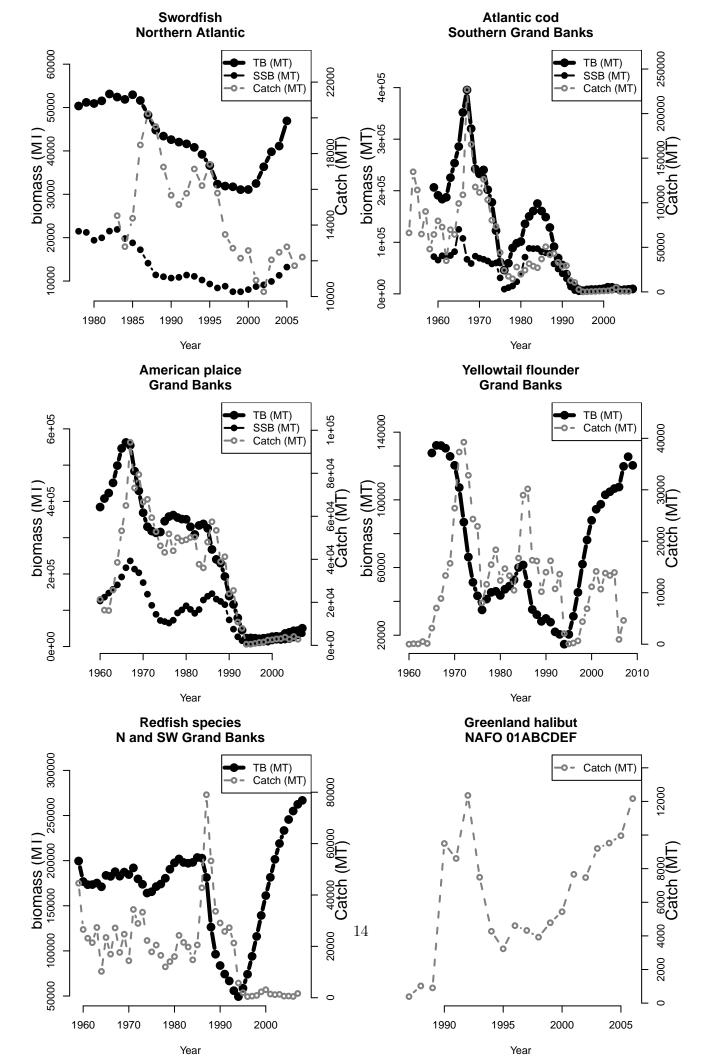


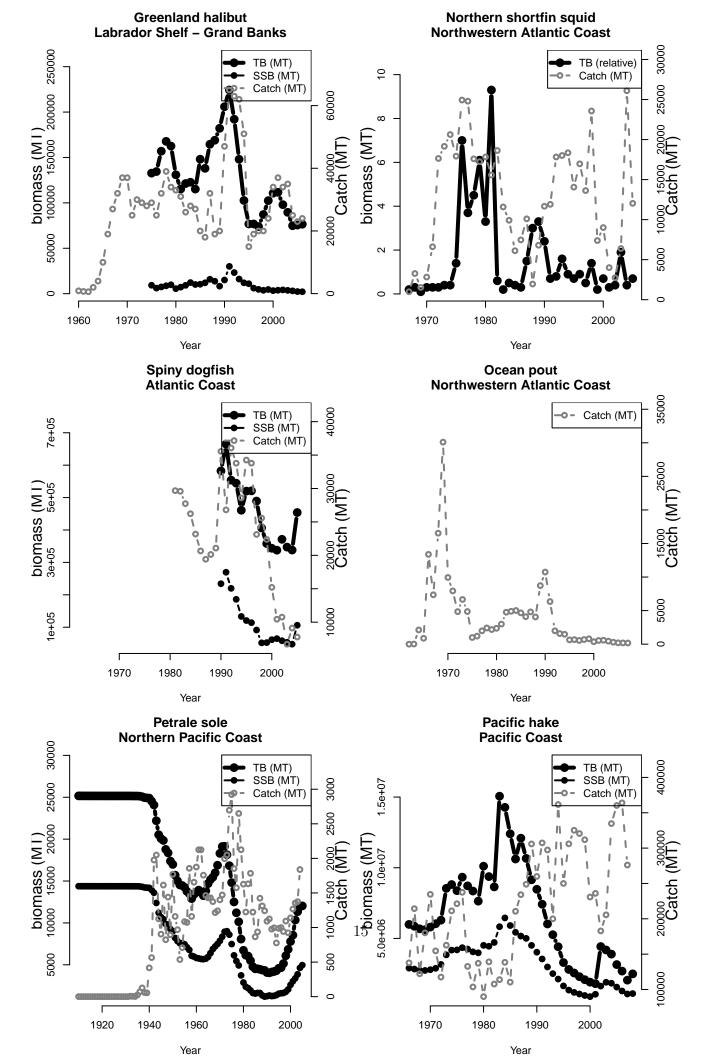


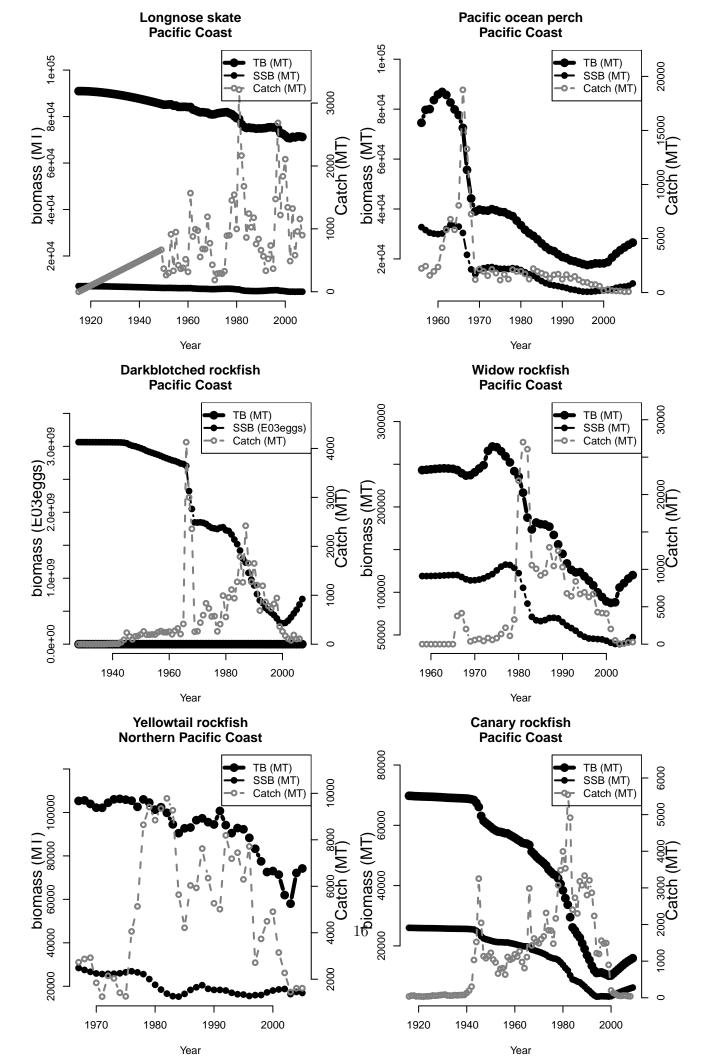


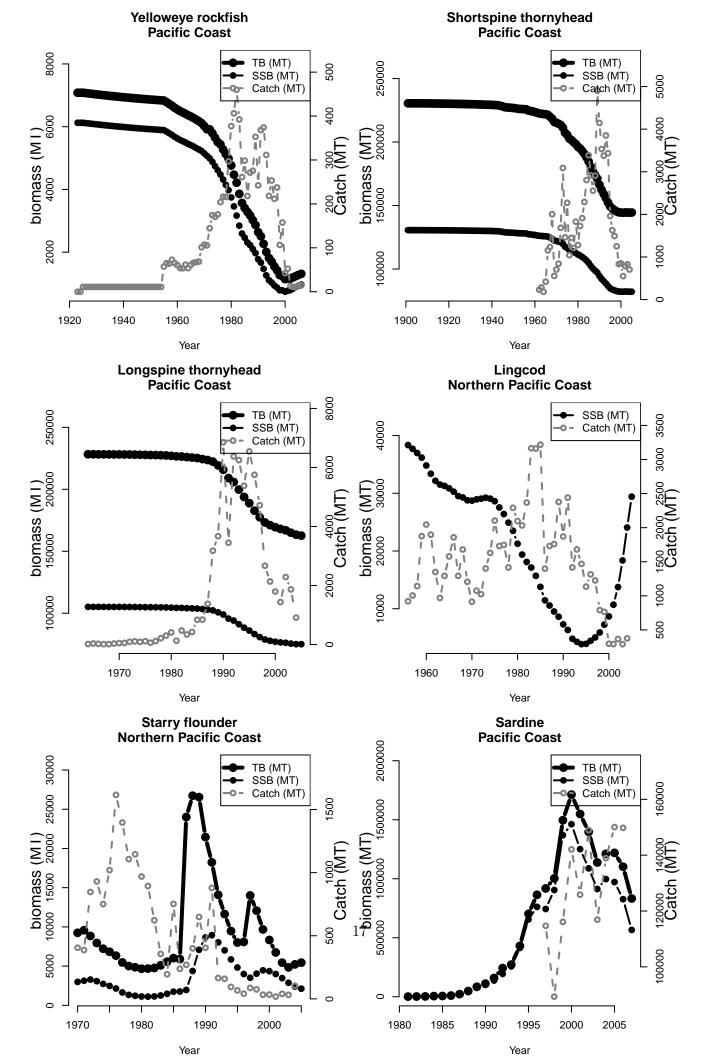












## Chub mackerel Pacific Coast SSB (MT) Catch (MT) 1940 1960 1980 2000 Year

## 2 List of stocks

$\operatorname{stock}$	species	$\operatorname{mgmt}$	years	LME
Herring Scotian Shelf	Clupea harengus	DFO	1965-2006	Scotian Shelf
and Bay of Fundy				
Atlantic cod NAFO	Gadus morhua	DFO	1978-2003	Northeast U.S. Continental
$5\mathrm{Zjm}$				Shelf
Haddock NAFO-	Melanogrammus	DFO	1968-2003	Northeast U.S. Continental
5Zejm	aeglefinus			Shelf
Pollock NAFO-	Pollachius virens	DFO	1974-2007	Northeast U.S. Continental
4VWX5Zc				Shelf
Cusk NAFO 4X	Brosme brosme	DFO	1970-2007	Northeast U.S. Continental
				Shelf
Atlantic cod NAFO	Gadus morhua	DFO	1958-2002	Scotian Shelf
4VsW				
Haddock NAFO-	Melanogrammus	DFO	1960-2003	Northeast U.S. Continental
4X5Y	aeglefinus			Shelf
White hake Scotian	Urophycis tenuis	DFO	1964-2005	Scotian Shelf
Shelf, Bay of Fundy				
and Georges Bank				
Atlantic cod NAFO	Gadus morhua	DFO	1850 - 2005	Newfoundland-Labrador Shelf
2J3KL				
Atlantic cod NAFO	Gadus morhua	DFO	1959-2004	Newfoundland-Labrador Shelf
3Ps				
American Plaice	Hippoglossoides	DFO	1960-2004	Newfoundland-Labrador Shelf
NAFO-23K	platessoides			
American Plaice	Hippoglossoides	DFO	1960-2005	Newfoundland-Labrador Shelf
NAFO-3Ps	platessoides			

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Monkfish Labrador Shelf - Grand Banks -	Lophius americanus	DFO	1977-2000	Newfoundland-Labrador Shelf
St. Pierre Bank Redfish species NAFO 23K	Redfish species	DFO	1959-2001	Newfoundland-Labrador Shelf
Sablefish Pacific Coast of Canada	Anoplopoma fim- bria	DFO	1913-2004	Gulf of Alaska
Pacific herring Central Coast	Clupea pallasii	DFO	1951-2007	Gulf of Alaska
Pacific herring Prince Rupert District	Clupea pallasii	DFO	1951-2007	Gulf of Alaska
Pacific herring Queen Charlotte Islands	Clupea pallasii	DFO	1951-2007	Gulf of Alaska
Pacific herring Straight of Geor-	Clupea pallasii	DFO	1951-2007	Gulf of Alaska
gia Pacific herring West Coast of Vancouver Is- land	Clupea pallasii	DFO	1951-2007	Gulf of Alaska
Pacific cod Hecate Strait	Gadus macro- cephalus	DFO	1956-2005	Gulf of Alaska
Pacific cod West Coast of Vancouver	Gadus macro- cephalus	DFO	1956-2002	Gulf of Alaska
Island Rock sole Hecate Strait	Lepidopsetta bilineata	DFO	1945-2001	Gulf of Alaska

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	English sole Hecate Strait	Parophrys vetulus	DFO	1944-2001	Gulf of Alaska
	Herring NAFO 4R fall spawners	Clupea harengus	DFO	1971-2003	Newfoundland-Labrador Shelf
	Herring NAFO 4R spring spawners	Clupea harengus	DFO	1963-2004	Newfoundland-Labrador Shelf
	Atlantic cod NAFO 3Pn4RS	Gadus morhua	DFO	1964-2007	Newfoundland-Labrador Shelf
	Redfish species NAFO 3Pn4RSTVn	Redfish species	DFO	1953-2000	Newfoundland-Labrador Shelf
	Greenland halibut NAFO 4RST	Reinhardtius hip- poglossoides	DFO	1970-2002	Newfoundland-Labrador Shelf
22	Snow crab Southern Gulf of St. Lawrence	Chionoecetes opilio	DFO	1984-2007	Scotian Shelf
	Herring NAFO 4T fall spawners	Clupea harengus	DFO	1974-2007	Scotian Shelf
	Herring NAFO 4T spring spawners	Clupea harengus	DFO	1974-2007	Scotian Shelf
	Atlantic cod NAFO 4TVn	Gadus morhua	DFO	1965-2009	Scotian Shelf
	Albacore tuna North Atlantic	Thunnus alalunga	ICCAT	1929-2005	Atlantic High Seas
	Yellowfin tuna Atlantic	Thunnus albacares	ICCAT	1970-2006	Atlantic High Seas
	Bigeye tuna Atlantic	Thunnus obesus	ICCAT	1950-2005	Atlantic High Seas
	Bluefin tuna Western Atlantic	Thunnus thynnus	ICCAT	1969-2007	Atlantic High Seas

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Swordfish North At-	Xiphias gladius	ICCAT	1978-2007	Atlantic High Seas
lantic Atlantic cod NAFO	Gadus morhua	NAFO	1953-2007	Newfoundland-Labrador Shelf
3NO American Plaice NAFO-3LNO	Hippoglossoides platessoides	NAFO	1955-2007	Newfoundland-Labrador Shelf
Yellowtail Flounder NAFO 3LNO	Limanda ferruginea	NAFO	1960-2009	Northeast U.S. Continental Shelf
Redfish species NAFO 3LN	Redfish species	NAFO	1959-2008	Newfoundland-Labrador Shelf
Greenland halibut NAFO 01ABCDEF	Reinhardtius hip- poglossoides	NAFO	1987-2006	West Greenland Shelf
Greenland halibut NAFO 23KLMNO	Reinhardtius hip- poglossoides	NAFO	1960-2006	Newfoundland-Labrador Shelf
Northern shortfin squid Northwestern	Illex illecebrosus	NMFS	1967-2005	Northeast U.S. Continental Shelf
Atlantic Coast Spiny dogfish Atlantic	Squalus acanthias	NMFS	1962-2006	Northeast U.S. Continental
Coast Ocean pout Northwestern Atlantic	Zoarces americanus	NMFS	1962-2008	Shelf Northeast U.S. Continental Shelf
Coast				
Petrale sole Northern Pacific Coast	Eopsetta jordani	NMFS	1910-2005	California Current
Pacific hake Pacific Coast	Merluccius productus	NMFS	1966-2008	California Current

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Longnose skate Pacific	Raja rhina	NMFS	1915-2007	California Current
Coast				
Pacific ocean perch	Sebastes alutus	NMFS	1953-2007	California Current
Pacific Coast				
Darkblotched rockfish	Sebastes crameri	NMFS	1928-2007	California Current
Pacific Coast				
Widow rockfish Pa-	Sebastes entomelas	NMFS	1955-2006	California Current
cific Coast				
Yellowtail rockfish	Sebastes flavidus	NMFS	1967-2005	California Current
Northern Pacific				
Coast				
Canary rockfish Pa-	Sebastes pinniger	NMFS	1916-2009	California Current
cific Coast				
Yelloweye rockfish Pa-	Sebastes ruber-	NMFS	1923-2006	California Current
cific Coast	rimus			
Shortspine thorny-	Sebastolobus alas-	NMFS	1901-2005	California Current
head Pacific Coast	canus			
Longspine thornyhead	Sebastolobus al-	NMFS	1962-2005	California Current
Pacific Coast	tivelis			
Lingcod Northern Pa-	Ophiodon elonga-	NMFS	1956-2005	California Current
cific Coast	tus			
Starry flounder North-	Platichthys stella-	NMFS	1970-2005	California Current
ern Pacific Coast	tus			
Pacific sardine Pacific	Sardinops sagax	NMFS	1981-2007	California Current
Coast	. 0			

Pacific chub mackerel Scomber japonicus NMFS 1929-2008 California Current Pacific Coast

Table 3: Stocks present in the RAM Legacy database that inhabit Canadian waters and are of national relevance.