

## SUPPORTING INFORMATION

Table 1. Summary of review of Regional Fisheries Body (RFB) reports, Pacific and Indian Ocean. ‘N stocks’ refer to number of management units reviewed in the reports referenced (‘Ref’, Reference List in Supporting Information). ‘N stocks’ = 0 implies that assessment reports were sought for but not found, or that information was provided in Spanish. ‘N Cases’ refer to number of stocks for which ecosystem processes were incorporated in the management system.

Region	Fishery Management Body	N stocks	N Cases	Comments	Ref
Indian Ocean	Indian Ocean Tuna Commission (IOTC)	28	0		1
Indian Ocean	Bay of Bengal Programme Inter-Governmental Organization (BOBP-IGO)	46	0		2-6
Indian Ocean	Regional Commission for Fisheries (RECOFI)	17	0		7
Indian Ocean	South Indian Ocean Fisheries Agreement (SIOFA)	0	0		
Indian Ocean	Southwest Indian Ocean Fisheries Commission (SWIOFC)	107	0		8
Indian Ocean / Red Sea	Regional Organization for the Conservation of the Environment of the Red Sea and Gulf of Aden (PERSGA)	0			9
Indian Ocean / North west Pacific	Asia-Pacific Fishery Commission (APFIC)	> 323	0	Summarized information	10-13
North Pacific	Convention on the Conservation and Management of Pollock Resources in the Central Bering Sea (CCBSP)	4	0		14-17
North Pacific	North Pacific Fisheries Commission (NPFC)	10	1		18
North Pacific	The North Pacific Marine Science Organization (PICES)	0			19
North Pacific	North Pacific Anadromous Fish Commission (NPAFC)	7	1		20-21
North-east Pacific	International Pacific Halibut Commission (IPHC)	1	0		22
Western, central Pacific	Western and Central Pacific Fisheries Commission (WCPFC)	12	0		23-24
South Pacific	Secretariat of the Pacific Community (SPC)	> 30	0	Overlaps with WCPFC	23, 25-26
South Pacific	South Pacific Regional Fisheries Management Organization (SPRFMO)	4	0		27
South-west central Pacific	Forum Fisheries Agency (FFA)	0		Overlaps with WCPFC	28
South-west Pacific and Indian Ocean	Southeast Asian Fisheries Development Center (SEAFDEC)	0			29
South-east Pacific	Inter-American Tropical Tuna Commission (IATTC)	5	3		30
South-east Pacific	Permanent Commission for the South Pacific (CPPS)	0		In Spanish	31
Total		> 594	5		

Table 2. Summary of reviewed Atlantic, Antarctic, Trans-ocean, Australian and US fisheries bodies. ‘N stocks’ refer to number of management units reviewed in the report referenced (‘Ref’, Reference List in Supporting Information). ‘N stocks’ = 0 implies that assessment reports were sought for but not found, or that information was provided in Spanish. ‘N Cases’ refer to number of stocks for which ecosystem processes were incorporated in the management system.

Region	Fishery body	N stocks	N Cases	Comments	Ref
Atlantic	International Commission for the Conservation of Atlantic Tunas (ICCAT)	29	0		32
North Atlantic	North Atlantic Salmon Conservation Organization (NASCO)	0	0	Overlaps with ICES	33
North-east Atlantic	International Council for the Exploration of the Sea (ICES)	128	10		34-35
North-east Atlantic	North-East Atlantic Fisheries Commission (NEAFC)	0	0	Overlaps with ICES	36
North-east Atlantic	Joint Norwegian-Russian Fisheries Commission (JointFish)	0			37
North-east Atlantic – Mediterranean Sea	General Fisheries Commission for the Mediterranean (GFCM)	14	2		38-39
North-west Atlantic	Northwest Atlantic Fisheries Organization (NAFO)	19	1		40
Western Central Atlantic	Caribbean Regional Fisheries Mechanism (CRFM)	13	0		41-42
Western Central Atlantic	Western Central Atlantic Fishery Commission (WECAFC)	0	0		43
South-east Atlantic	Ministerial Conference on Fisheries Cooperation among African States Bordering the Atlantic (COMHAFAT)	0			44
South-east Atlantic	Regional Fisheries Committee for the Gulf of Guinea (COREP)	0			45
South-east Atlantic	Subregional Fisheries Commission (SRFC)	0			46
South-east Atlantic	Fishery Committee for the Eastern Central Atlantic (CECAF)	47	2		47-49
South-east Atlantic	Fishery Committee of the West Central Gulf of Guinea (FCWC)	0			50
South-east Atlantic	South East Atlantic Fisheries Organization (SEAFO)	5	0		51-52
South-west Atlantic	Joint Technical Commission of the Maritime Front (CTMFM)	0		In Spanish	53
Antarctica	Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR)	6	0		54
Trans ocean, south Pacific and south Atlantic	Commission for the Conservation of Southern Bluefin Tuna (CCSBT)	1	0		55
Trans ocean	Latin American Organization for Fisheries Development (OLDEPESCA)	0		In Spanish	56
Trans ocean	Central America Fisheries and Aquaculture Organization (OSPESCA)	0		In Spanish	57
Southwest Pacific	Australian Government Department of Agriculture, Fisheries and Forestry	65	0		58
Northwest Atlantic	Northeast Fisheries Science center	39	1		59
Central Atlantic	Southeast Fisheries Science Center	70	1		60
Pacific	Pacific Fishery Management Council	42	1		61-63
Northeast Pacific	Alaska Fisheries Science Center	57	0		64
Central Pacific	Western Pacific Regional Fishery Management Council	138	1		65-67
Total		673	19		

Table 3. Scientific support by geographical region. Numbers reflect numbers of publications found in searches on ISI Web of Science (performed on 16.04.2013) using the terms “LME (Large Marine Ecosystems, eg. North Sea) and fish” and “LME and ecosystem approach or ecosystem based and fish” in Topic. The results were summarized by geographical region before presentation in Figure 1.

LME	'LME and fish'	'LME and (EA or EB) and fish'	Geographic region'
North Sea	5842	432	NEA
Mediterranean Sea	3410	150	NEA
Antarctic*	2821	83	ANTARCT
Baltic Sea	1884	102	NEA
Red Sea	1762	53	IND
Black Sea	1418	53	NEA
Australia*	1263	191	SWP
Chesapeake bay	1129	85	NWA
Sea of Japan	1077	20	NWP
China Sea	719	38	NWP
Bering Sea	697	66	BER
California Current	686	97	NEP
Norwegian Sea	595	33	NEA
Barents Sea	563	60	NEA
New Zealand	527	106	SWP
Yellow Sea	473	21	NWP
Caribbean Sea	421	22	NWA
Benguela Current	418	40	SEA
Gulf of Alaska	410	33	NEP
Bay of Biscay	371	24	NEA
Canary Current	312	11	NEA
Arabian Sea	287	13	IND
Scotian Shelf	260	34	NWA
Greenland sea	229	5	NWA
Patagonian	228	12	SWA
South Brazil Shelf	132	6	SWA
Humboldt Current	125	42	SEP
Celtic sea	120	13	NEA
Bay of Bengal	116	1	IND
Kuroshio Current	98	3	NWP
Sea of Okhotsk	92	2	NWP
Guinea Current	84	7	SEA
Labrador Sea	74	0	NWA
Chukchi Sea	46	0	ARC
Oyashio Current	28	1	NWP
Pacific Central-America coastal	4	0	SEP

\* BER = Bering Sea; NWP, SWP = Northwest and Southwest Pacific; NEP, SEP = Northeast, and Southeast Pacific; NWA and SWA = Northwest and Southwest Atlantic; NEA and SEA = Northeast and Southeast Atlantic; BAR = Barents Sea, IND = Indian Ocean, ANTARCT = Antarctic.

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