



Supporting Online Material for

Depletion, Degradation, and Recovery Potential of Estuaries and Coastal Seas

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Published 23 June 2006, *Science* **312**, 1806 (2006).
DOI: 10.1126/science.1128035

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Supplementary online material

Material and Methods

Study systems and data availability. We chose systems to represent broad temporal and spatial gradients of human impacts, diverse geographical locations, and for available palaeontological, archaeological, historical, fisheries, and ecological data on individual species, water quality, and invasions (see Table S1 for references). For comparability, most study systems were located in the temperate zone. The systems varied widely in size and geological origin, which we defined as the time when the system reached its present shape (Table 1, Table S1 for references). To compare background biological characteristics, we compiled data on primary productivity and fish species richness (as a proxy for overall species richness) by Large Marine Ecosystem (LME, Table S1, *S1*). We determined human population size (HP) for all provinces and countries bordering the study systems (Table S1), and calculated HP total, HP density = HP total / system size, and HP growth rate = HP total today / HP total at the beginning of the Development period (Table 1, Table S1 for references).

Real time and cultural periods. We recorded all species, water quality, and invasions data by real time and grouped them into seven cultural periods reflecting stages of cultural and market development (Table S2) rather than calendar dates (Table S3). Real-time data were used to compare the onset and timeline of human-induced changes among systems affected by differing human occupation histories. Cultural-period data were used to compare the magnitude of ecological changes across periods of similar technology and market conditions independent of calendar timing. All cultural periods occurred at all study sites except for a missing Agricultural Period in the Gulf of St. Lawrence, Outer Bay of Fundy, Galveston Bay, San Francisco Bay, and Moreton Bay (Table S3).

Species records and relative abundance analysis. We compiled records on the distribution, abundance, size and extraction of marine and estuarine species that have historically been of major commercial, structural, or functional significance. Our review of >800 primary data sources, which included peer-reviewed scientific journals, government and non-governmental reports, and web-based sources, yielded an average of 66 sources per system (see Table S1 for references). Data availability and species-specific detail varied among study sites and historical periods. It was not our aim to include as many species as possible, but instead to compile consistent information on a representative set of important species within each ecological guild, and taxonomic and functional group.

We used quantitative and qualitative records to estimate relative abundance for each species over time (Table S4). Relative abundance in the pre-human period was defined as pristine (=100%), and calculated in subsequent periods as abundant (=90%), depleted (=50%), rare (=10%), or extinct (=0%) (Table S4). Recovery was defined as partial when increasing from 0-10% to >10% and substantial when increasing from 0-10% to >50%. To standardize across species, we converted absolute abundance estimates into relative abundance categories where such estimates were available. This approach was conservative, as relative abundance estimates were underestimating the true decline relative to absolute abundance records.

We quantified changes in 30-80 single or multiple species per system (average 48) (Table S5). In some systems detailed historical records for single species were limited, whereas records for a group of species such as 'large whales', 'dolphins', 'geese', were abundant. For consistency through time, we maintained these groups as 'multiple species' (marked underlined in Table S5). Where more detailed species records became available for recent times, these single species were considered within multiple species (marked with * in Table S5).

Species records were standardized into 22 ecological guilds (Fig. 2), six taxonomic groups (Mammals, Birds, Reptiles, Fish, Invertebrates, Vegetation, Fig. S2A), and seven functional groups (Large Carnivores, Large Herbivores, Small Carnivores, Small Herbivores, Suspension Feeders, Submerged Aquatic Vegetation, Wetlands, Fig. S2B) (Table S5). 'Large' carnivores or herbivores were those with >1m maximum body length. Some guilds, such as 'Waterfowl & Waders', were split into large and small, carnivores and herbivores before assignment to functional groups (Table S5). We were able to compile data for almost all guilds in all study systems (Table S6), all functional groups, and all taxonomic groups except reptiles, which were missing from higher latitude systems.

We analyzed the historical trajectories and present states of relative abundance in all systems (Fig. 1, S1) using two alternative ways. First, we calculated the average of each guild within each taxonomic group (Table S6), the average of each taxonomic group, and the arithmetic and multivariate (principal component analysis, PCA, see below) mean across the six taxonomic groups (Fig. 1 A, B; S1A, B). Second, we calculated the average of each guild within each functional group, the average of each functional group, and the arithmetic and multivariate (PCA) mean across the seven functional groups (Fig. S1C, D). The present states of relative abundance in each study system represent the endpoints of the historical trajectories (Fig. 1E, S1E-H). We compared trends of ecological groups across study sites by calculating means and standard errors (n=12) for all guilds (Fig. 2), taxonomic and functional groups (Fig. S2).

We used principal component analysis (PCA) to evaluate the robustness of our results from arithmetic means, as described in detail by Pandolfi et al. (S2). For this analysis, we added a single degraded system with all taxonomic or functional groups set as rare (=10%). All cultural periods are represented in all study systems except five systems lacking the Agriculture period (Table S3). We computed the multivariate statistics for those 80 system-period combinations where cultural periods occurred at individual study sites. For the functional group analysis, all 80

system-period combinations were described by seven functional groups with no missing values, whereas for the taxonomic group analysis, marine reptiles were absent from six systems (see above). These missing data slightly offset values of PC1 loadings for these systems (Fig. S1A), but did not change overall trends. The PCA was calculated on the dispersion (variance-covariance) matrix because the descriptors are dimensionally homogeneous. To focus the analysis on the relative position among systems rather than among taxonomic or functional groups, eigenvectors were normalized to 1. Thus, we preserved the Euclidean distances among the system-period combinations in the reduced space and the six taxonomic or seven functional groups could then be used to help explain the patterns in the systems. A scree plot of eigenvalues versus PC showed that only the first Principal Component (PC1) was significant for the taxonomic group analysis ($\lambda_1 = 4508$, $\lambda_2 = 275$, $\lambda_3 = 173$), explaining 87.9% of the variance, and the functional group analysis ($\lambda_1 = 5015$, $\lambda_2 = 338$, $\lambda_3 = 237$), explaining 85.4% of the variance.

Water quality records. Historical trends in water quality were calculated from sediment cores (4 systems) and long-term hydrographical records (6 systems, Table S1). We used different proxies to estimate relative increases in sediment loading, nitrogen and phosphorus loading, primary productivity, abundance of eutrophic plankton, decline in epiphytic diatoms, and the extent of oxygen depletion over time (Fig. 2G, Table S7). The earliest record in each data set was used as a baseline and set as 1, and subsequent records were calculated as relative changes over this baseline.

Invasive species records. We recorded the cumulative number of marine and estuarine species invasions over time (Fig. 2H) from available data sets in five study systems (Table S1, S8). We also recorded the current number of established invaders by taxonomic group for seven study systems (Fig. 3B, Table S1, S8). Taxonomic groups included Mammals, Birds, Reptiles, Fish, Invertebrates, Macroalgae, Higher plants, Phytoplankton, Protozoa, and Viruses & Bacteria.

Causes and consequences of change. We recorded all human impacts that were historically responsible for changes in species abundance (see Table S1 for references on species). These included exploitation, habitat loss, pollution, human disturbance (e.g. trampling, beach use), disease, eutrophication, introduced land predators (mainly raccoons and foxes), invasive species, and climate change (Fig. 3A). We then calculated both the proportion of all species depletions (<50% abundance) and extinctions (0%) caused by different, often multiple human impacts and the proportion of species recoveries explained by the reduction of different human impacts.

We assessed shifts in diversity by comparing losses and gains among different taxonomic groups (Fig. 3B). Losses included the proportion of recorded species currently depleted (all species <50% relative abundance), rare (<10%), or extinct (0%). Gains included the proportion of recorded species currently recovering and the number of current species invasions (see above).

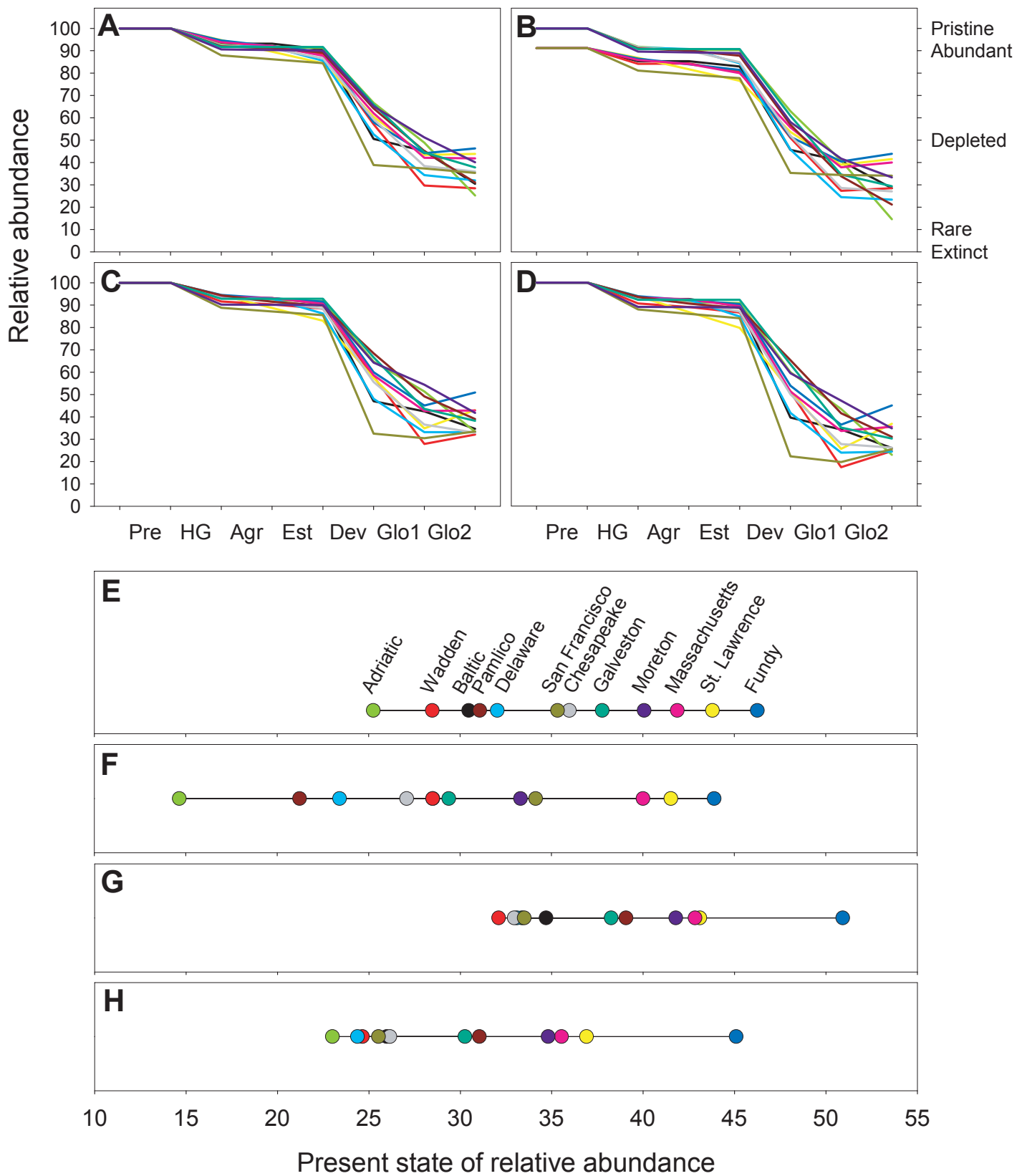


Fig. S1. Alternative measures for historical trajectories and present states. Trends of relative abundance calculated as (A) arithmetic and (B) multivariate (PCA) mean of six taxonomic groups, and (C) arithmetic and (D) multivariate mean of seven functional groups over seven cultural periods (see Fig. 1). Present states are ranked by (E) arithmetic and (F) multivariate means of six taxonomic groups, and (G) arithmetic and (H) multivariate means of seven functional groups. Color codes for all graphs refer to the 12 study systems as depicted in panel E.

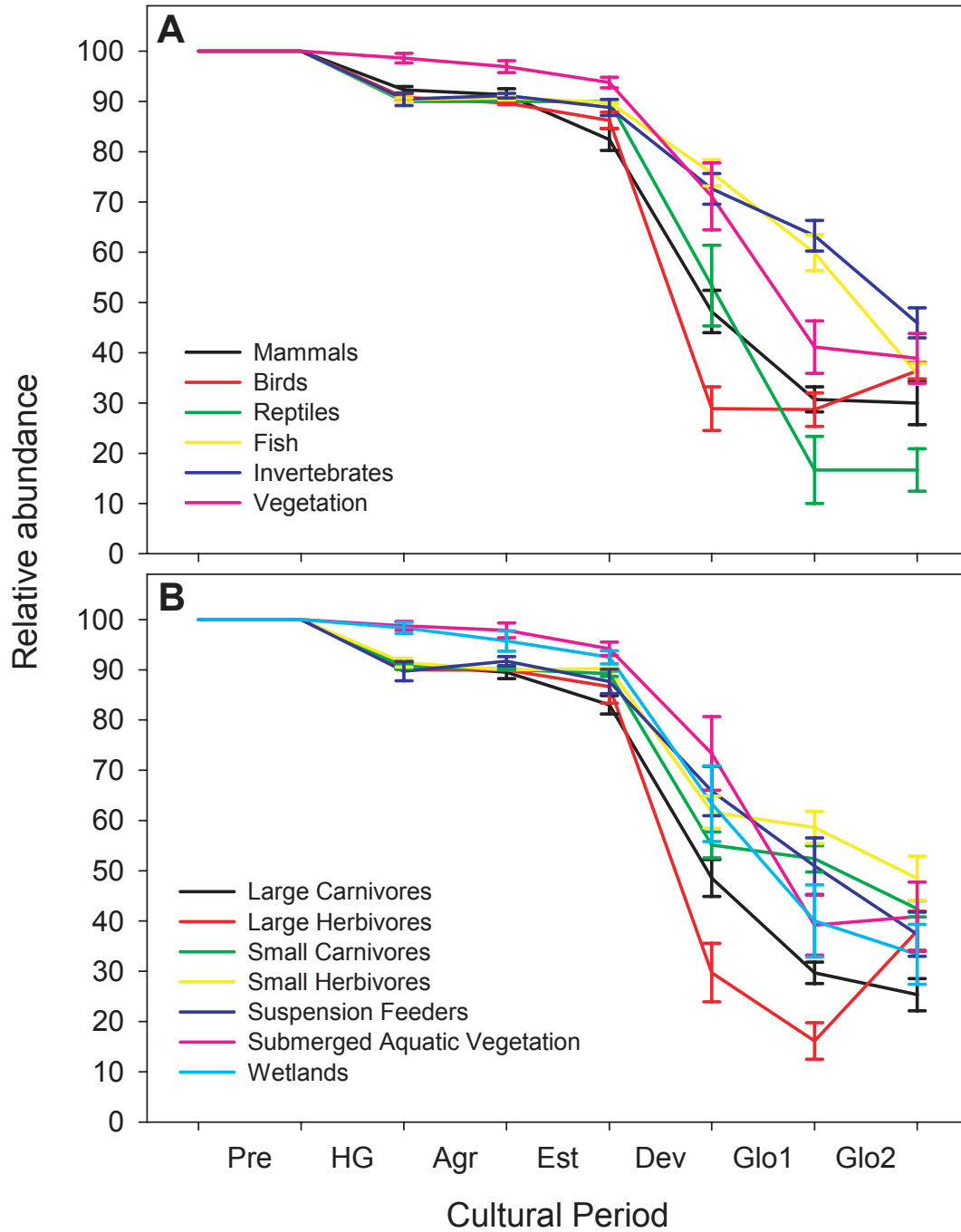


Fig. S2. Relative abundance trends in (A) six taxonomic and (B) seven functional groups by cultural periods.

Table S1. Overview of data availability and references for the 12 study systems and their corresponding Large Marine Ecosystem (LME, *S1*). HP = human population. Water quality data were compiled from sediment cores (Core) and long-term hydrographical records (Hydro) if available (see Table S7 for details). Records of species invasions were compiled over time (Time) and by taxonomic group (Taxa) (see Table S8 for details). References for species records are grouped by study system, a full list of species considered can be found in Table S5.

System	LME	Size	Origin	HP*	Water quality		Invasions		Species
					Core	Hydro	Time	Taxa	
W. Baltic Sea	Baltic Sea	<i>S1</i>	<i>S8</i>	<i>S23-25</i>	<i>S51-55</i>	<i>S61-63</i>	<i>S77</i>	<i>S77</i>	<i>S85</i>
Wadden Sea	North Sea	<i>S3</i>	<i>S9</i>	<i>S23-26</i>		<i>S64-67</i>	<i>S78</i>	<i>S82</i>	<i>S86</i>
N. Adriatic Sea	Mediterranean	<i>S4</i>	<i>S10</i>	<i>S24-25</i>	<i>S56</i>	<i>S68-70</i>		<i>S83</i>	<i>S87</i>
S. Gulf St. Lawrence	Scotian Shelf	<i>S5</i>	<i>S11</i>	<i>S27-29</i>		<i>S71</i>			<i>S88</i>
Outer Bay of Fundy	Scotian Shelf	<i>S6</i>	<i>S12</i>	<i>S28-30</i>			<i>S79</i>	<i>S79</i>	<i>S89</i>
Massachusetts Bay	NE US Shelf	<i>S6</i>	<i>S13-16</i>	<i>S31-34</i>					<i>S90</i>
Delaware Bay	NE US Shelf	<i>S6</i>	<i>S17</i>	<i>S31,35-36</i>					<i>S91</i>
Chesapeake Bay	NE US Shelf	<i>S6</i>	<i>S18</i>	<i>S31,37-41</i>	<i>S57-59</i>		<i>S80</i>	<i>S80</i>	<i>S92</i>
Pamlico Sound	SE US Shelf	<i>S6</i>	<i>S19</i>	<i>S31,42</i>	<i>S60</i>				<i>S93</i>
Galveston Bay	Gulf of Mexico	<i>S6</i>	<i>S20</i>	<i>S31,42</i>				<i>S84</i>	<i>S94</i>
San Francisco Bay	California Current	<i>S6</i>	<i>S21</i>	<i>S31,43-44</i>		<i>S72-73</i>	<i>S81</i>	<i>S81</i>	<i>S95</i>
Moreton Bay	E cent. Australian Shelf	<i>S7</i>	<i>S22</i>	<i>S45-50</i>		<i>S74-76</i>			<i>S96</i>

*Countries or provinces included for population counts:

- Baltic Sea: Sweden, Finland, Estonia, Latvia, Lithuania, Poland, Denmark
- Wadden Sea: applying current ratio Wadden / North Sea population to North Sea data: Norway, Denmark, Germany, Netherlands, Belgium, Luxembourg, United Kingdom
- Adriatic Sea: Italy, Yugoslavia, Albania, Greece
- Gulf of St. Lawrence: New Brunswick, Quebec, Prince Edward Island
- Outer Bay of Fundy: Charlotte County
- US estuaries: All counties bordering saline waters of the estuary
- Moreton Bay: Brisbane, Moreton, Ipswich

Table S2. Definition of cultural periods based on human presence, technology and market conditions.

Cultural Period	Human presence, technology, market conditions
Pre-human	No human presence; only natural disturbance of ecosystems
Hunter-Gatherer	Pre-market; low population numbers; seasonal settlements; individual resource use; subsistence exploitation
Agricultural	Pre-market; low population numbers; permanent settlements; individual or village-based resource use; subsistence and artisan exploitation
Establishment (Market / Colonial)	Establishment of local economy and market; European settlement in the new world; low population numbers; trade between colonies and empire home countries; mostly products needed to survive
Development (Market / Colonial)	Strong growth and expansion of economy, market and trade; rapid population rise; commercialization of resource use; development of luxury and fashion markets especially affecting birds (feather trade), mammals (whale baleen, seal and otter furs, walrus ivory), and reptiles (turtle shells, crocodile skins); onset of industrialization and technological progress; mass-killing of mammals and birds with guns; fishing mostly inshore and seasonal with selective and non-destructive gear (e.g. hook and line, light trawls towed by sail boats over soft bottoms)
Early Global (1900-1950)	Global economy and market develops; strong population increase; industrialization and technological progress towards more efficient, less selective and more destructive gear (e.g. motor boats, steam trawlers) accelerating exploitation, by-catch, and habitat destruction; increasing fishing effort; fishing possible in any season but still mostly inshore and coastal
Late Global (1950-2000)	Global economy and market; increased industrial fishing (especially after World War II) extending offshore and towards the deep sea; multiple unselective and destructive gears (otter trawls, purse seines, long-lining, rock-hopper gear, etc.); all habitats are being fished, all fish are detectable; mass-fishing; other human impacts increase (eutrophication, pollution, fish farming); conservation efforts increase

Table S4. Judging criteria for relative abundance estimates that integrate quantitative and qualitative records of abundance.

Estimate	Quantitative	Qualitative records
Pristine = 100	100-91%	High abundance, no signs of regular human exploitation
Abundant = 90	90-51%	Medium to high abundance, regular human exploitation without signs of depletion, species common
Depleted = 50	50-11%	Low to medium abundance, strong exploitation with signs of depletion (i.e. at least 50% decline in abundance, catch, CPUE, size, or distribution), species depleted
Rare = 10	10-1%	Low to very low abundance, at least 90% decline in abundance, catch, CPUE, size, or distribution, collapse of stocks or exploitation, listed on endangered species list, species rare
Extirpated = 0	0%	Locally, regionally, or globally extinct, species absent

			Caspian tern	<i>Sterna caspia</i>	1	*				*		*	
			Royal tern	<i>Sterna maxima</i>						*			
			Forster's tern	<i>Sterna forsteri</i>						*		*	
			Least tern	<i>Sterna antillarum</i>						*		*	
			Sooty tern	<i>Sterna fuscata</i>								*	
			Crested tern	<i>Sterna bergii</i>								*	
			Gull-billed tern	<i>Gelochelidon nilotica</i>		*	*			*			
			Common noddy	<i>Anous stolidus</i>								*	
			<u>Seabirds, other</u>									1	
			Boobies	<i>Sula spp.</i>								*	
			Frigatebirds	<i>Fregata spp.</i>								*	
			Greater Shearwater	<i>Puffinus gravis</i>					1				
			Northern Gannet	<i>Sula bassana</i>				1	1				
			Herald petrel	<i>Pterodroma arminjoniana</i>								*	
			Southern giant petrel	<i>Macronectes giganteus</i>								*	
			Northern giant petrel	<i>Macronectes halli</i>								*	
			<u>Alcids</u>					1					
			Great Auk	<i>Pinguinus impennis</i>	1			1	1	1			
			Atlantic puffin	<i>Fratercula arctica</i>				1	1				
			Razorbill	<i>Alca torda</i>	*			1	1				
			Black Guillemots	<i>Cepphus grylle</i>	*			1					
			Thick-billed Murre	<i>Uria lomvia</i>				1					
			Common Murre	<i>Uria aalge</i>	*			1	1			1	
SC	Birds	Shorebirds	<u>Shorebirds</u>			1	1			1	1	1	1
			Oystercatcher	<i>Haematopus ostralegus</i>	1								
			American oystercatcher	<i>Haematopus palliatus</i>							*		
			Sooty oystercatcher	<i>Haematopus fuliginosus</i>									*
			Avocet	<i>Recurvirostrata avosetta</i>	1	*	*						
			American avocet	<i>Recurvirostra americana</i>							*	*	
			Black-winged stilt	<i>Himantopus himantopus</i>			*						*
			Ringed plover	<i>Charadrius hiaticula</i>	1								
			Kentish / snowy plover	<i>Charadrius alexandrinus</i>	1	*	*						*
			Semipalmated plover	<i>Charadrius semipalmatus</i>				1	*				
			Piping Plover	<i>Charadrius melodus</i>				1	1		*	*	
			Golden plover	<i>Pluvialis apricaria</i>	1								
			Black-bellied / grey plover	<i>Pluvialis squatarola</i>	*			*		*	*	*	*
			Marbled godwit	<i>Limosa fedoaivillet</i>								*	
			Bar-tailed godwit	<i>Limosa lapponica</i>									*
			Curlew	<i>Numenius arquata</i>	1								
			Eskimo curlew	<i>Numenius borealis</i>				1	1				
			Long-billed curlew	<i>Numenius americanus</i>									*
			Eastern curlew	<i>Numenius madagascariensis</i>									*
			Whimbrel	<i>Numenius phaeopus</i>				1				*	*
			Willet	<i>Catoptrophorus semipalmatus</i>				1		*	*	*	*
			Wood sandpiper	<i>Tringa glareola</i>			*						
			Redshank	<i>Tringa totanus</i>		*							
			Sandpiper	<i>Actitis hypoleucos</i>		*							

			Adriatic sturgeon	<i>Accipenser naccarii</i>				*										
			Atlantic sturgeon	<i>Acipenser oxyrinchus</i>					1	1	1	1	1					
			White sturgeon	<i>Acipenser transmontanus</i>														*
			Green sturgeon	<i>Acipenser medirostris</i>														*
			Giant / Beluga sturgeon	<i>Huso huso</i>				*										
			Shortnose sturgeon	<i>Acipenser brevirostrum</i>						1	*	*	1					
SC	Fish	Diadromous fish	Chinook salmon	<i>Oncorhynchus tshawytscha</i>														1
			Coho salmon	<i>Oncorhynchus kisutch</i>														1
			Rainbow trout	<i>Oncorhynchus mykiss</i>				1										
			Sea trout	<i>Salmo trutta</i>		1	1											
			Sand sea trout	<i>Cynoscion arenarius</i>														1
			Houting	<i>Coregonus oxyrinchus</i>		1												
			Whitefish	<i>Coregonus lavaretus</i>			1											
			Striped bass	<i>Morone saxatilis</i>					1	1		1	1				1	
			Australian bass	<i>Macquaria novemaculeata</i>														1
			Shads	<i>Alosa alosa, A. fallax</i>		1	1											
			American shad	<i>Alosa sapidissima</i>					1	1	1	1	1	1				
			Alewife, Blueback herring	<i>Alosa pseudoharengus, A. aestivalis</i>					1	1	1							
			Smelt	<i>Osmerus eperlanus</i>		1												
			Rainbow smelt	<i>Osmerus mordax</i>					1	1								
			Baltic vimba	<i>Vimba vimba</i>			1											
			European eel	<i>Anguilla anguilla</i>		1	1	1										
			American eel	<i>Anguilla rostrata</i>						1			1	1				
			Atlantic tomcod	<i>Microgadus tomcod</i>						1								
LC	Fish	Large Pelagics	Bluefin tuna	<i>Thunnus thynnus</i>			1	1		1								
			Tuna, Bonito, others							1								
			Swordfish	<i>Xiphias gladius</i>			1	1										
			<u>Sharks</u>			1					1	1	1	1			1	1
			Great white shark	<i>Carcharodon carcharias</i>				1			*			*			*	*
			Sharks, other					1						*			*	*
			Angular rough shark	<i>Oxynotus centrina</i>				1										
			Soupin shark	<i>Galeorhinus galeus</i>				1										*
			Sharpnose seven gill shark	<i>Hepttranchias brucus</i>				1										*
			Leopard shark	<i>Triakis semifasciata</i>														*
			Porbeagle shark	<i>Lamna nasus</i>							*							
			Blue shark	<i>Pronace glauca</i>							*							
			Basking shark	<i>Cetorhinus maximus</i>							*							
			Sand tiger	<i>Odontaspis taurus</i>							*						*	
			Grey nurse / Sand shark	<i>Carcharias taurus</i>								*						*
			Sandbar shark	<i>Carcharhinus plumbeus</i>								*	*	*				
			Common hammerhead	<i>Sphyrna zygaena</i>								*						
			Scalloped hammerhead	<i>Sphyrna lewini</i>													*	
			Great hammerhead	<i>Sphyrna mokarran</i>													*	
			Smooth hound	<i>Mustelus mustelus</i>					*									
			Brown smoothhound shark	<i>Mustelus henlei</i>														
			Smooth dogfish	<i>Mustelus canis</i>								*		*				

SF	Fish	Small Pelagics	Atlantic menhaden / Pogy	<i>Brevoortia tyrannus</i>			1	1	1	1			
			Gulf menhaden	<i>Brevoortia patronus</i>								1	
SC	Invertebrates	Crustacean	Lobster	<i>Homarus gammarus, H. vulgaris</i>	1	1							
			American lobster	<i>Homarus americanus</i>				1	1	1			
			<u>Shrimp</u>				1	1					1
			Shrimp	<i>Palaemonetes spp.</i>								1	
			Shrimp, Norway lobster	<i>Nephrops norvegicus</i>		*	*						
			Shrimp, North Sea	<i>Crangon crangon</i>	1								
			Bay shrimp	<i>Crangon franciscorum</i>									1
			Shrimp, Baltic Sea	<i>Palaemon squilla</i>		*							
			Northern shrimp	<i>Pandalus borealis</i>		*			1				
			Shrimp	<i>Penaeus kerathurus</i>								*	
			Brown shrimp	<i>Penaeus aztecus</i>									*
			White shrimp	<i>Penaeus setiferus</i>									*
			Prawns	<i>Penaeus spp., Metapenaeus spp.</i>									1
			Deepwater roseshrimp	<i>Parapenaeus longirostris</i>					1				
			Crabs	<i>Carcinus maenas, Pagurus bernhardus, Liocarcinus holsatus</i>	1								
			Crab	<i>Cancer pagurus</i>			1						
			Rock crab, Jonah crab	<i>Cancer irroratus, C. borealis</i>					1				
			Dungeness crab	<i>Cancer magistar</i>									1
			Snow crab	<i>Chionoecetes opilio</i>					1				
Blue Crab	<i>Callinectes sapidus</i>							1	1	1			
Horseshoe crab	<i>Limulus polyhemus</i>							1	1				
Mud crab	<i>Scylla serrata</i>									1			
SC	Invertebrates	Mobile	<u>Cephalopods</u>								1		
			Octopus	<i>Eledone cirrhosa, E. moschata</i>		*							
			European squid	<i>Loligo vulgaris</i>		*							
			Common cuttlefish	<i>Sepia officinalis</i>		*							
			<u>Snails</u>										
			Whelk	<i>Buccinum undatum</i>	1								
			Murex	<i>Murex brandaris, M. trunculus</i>								1	
			<u>Abalone</u>										
			Red abalone	<i>Haliotis rufescens</i>								*	
			Green abalone	<i>Haliotis fulgens</i>								*	
Black abalone	<i>Haliotis cracherodii</i>								*				
SH	Invertebrates	Mobile	<u>Echinoderms</u>								1		
			Sea urchin	<i>Psammechinus miliaris</i>	1								
			Black sea urchin	<i>Paracentrotus lividus</i>			1						
			Sea urchin	<i>Strongylocentrotus droebachiensis</i>				1	1	1			
			Sea urchin	<i>Strongylocentrotus franciscanus</i>							*		
			Purple sea urchin	<i>Strongylocentrotus purpuratus</i>							*		
			Snails										
			Lacuna	<i>Lacuna vincta</i>	1								
			Periwinkle	<i>Littorina littorea</i>	1			1	1				
Limpets	<i>Patella coerulea, P. ulyssiponensis</i>			1									

			Clovergrass	<i>Halophila engelmannii</i>															*
SAV	Vegetation	Macrophytes	Seaweeds, various species		1														
			Rockweed	<i>Ascophyllum nodosum</i>				1		1									
			Rockweed	<i>Fucus vesiculosus, Furcellaria lumbricalis</i>		1													
			Rockweed	<i>Cystoseira spp., Sargassum hornschi</i>				1											
			Macrophytes	<i>Phragmites, Potamogeton, Chara spp.</i>		1						1							
			Macrophytes	<i>Najas spp., Vallisneria americana, Elodea canadensis</i>										1					
WL	Vegetation	Wetlands	Saltmarshes, Wetlands	<i>Spartina, Salicornia, Suaeda spp.</i>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			Mangroves	<i>Avicennia marina</i>															1
Total number of single / multiple species					77	53	64	65	68	44	28	32	44	28	39	34			

Table S6. Data matrix of current relative abundance of all guilds in each study system, and total number of guilds per system. Among invertebrates, ‘other habitat-builders’ include corals, sponges, meadow-forming hydrozoans, and reef-forming polychaetes, ‘other mobile’ include echinoderms, snails, and cephalopods. Study systems are abbreviated as in Table S3. ‘nd’ = not determined indicates limited data availability or absence of a guild in a study system. See Table S5 for species included in each guild, taxonomical and functional group.

	Ba	Wa	Ad	La	Fu	Ma	De	Ch	Pa	Ga	SF	Mo
Mammals												
Large whales	0	0	10	28	45	10	10	10	5	10	10	50
Small whales	23	5	10	30	50	50	50	50	30	50	90	50
Pinnipeds & Otters	10	30	0	60	50	45	90	90	nd	nd	30	nd
Sirenia	nd	nd	nd	nd	nd	nd	Nd	10	10	nd	nd	10
Birds												
Raptors	30	10	10	37	37	30	10	10	10	10	10	50
Seabirds	33	38	40	54	52	25	50	50	37	50	40	50
Shorebirds	10	29	50	10	24	50	50	50	50	50	50	50
Waterfowl & Waders	55	29	37	42	37	50	42	26	37	50	50	50
Reptiles												
Crocodiles / Alligators	nd	nd	nd	nd	nd	nd	Nd	nd	10	50	nd	nd
Sea turtles	nd	nd	10	nd	nd	nd	10	10	10	10	nd	30
Fish												
Diadromous fish	14	14	23	30	14	8	7	18	20	30	23	50
Groundfish	50	23	31	30	18	27	70	37	32	60	39	45
Large Pelagics	0	nd	11	50	nd	50	10	50	10	nd	50	10
Small Pelagics	70	50	50	77	50	50	50	50	50	50	63	50
Invertebrates												
Oysters	10	0	10	10	nd	50	10	10	50	50	10	10
Mussels	90	50	50	50	63	58	50	50	50	50	30	50
Crustaceans	77	63	50	63	70	50	50	70	50	50	70	70
Other habitat-builders	nd	10	30	nd	nd	nd	Nd	nd	nd	nd	nd	10
Other mobile	nd	22	72	58	58	50	Nd	nd	nd	nd	50	nd
Vegetation												
Seagrass	10	50	10	50	50	50	10	50	50	nd	10	50
SAV	30	90	50	nd	90	90	10	50	nd	10	nd	nd
Wetlands	10	10	10	50	50	10	50	50	50	50	10	50
No. of guilds	17	18	20	17	16	18	18	19	18	16	17	18

Table S7. Water quality parameters with details on origin (Core = sediment core, Hydro = hydrographical record), recorded proxies, and references for each study system.

Parameter	Proxy	Study System	Ref.
Sediment loading			
Core	Sedimentation rate (x-fold)	Baltic Sea	S51-52
Core	Sediment flux 1 ($\text{g cm}^{-2} \text{yr}^{-1}$)	Chesapeake Bay	S57
Core	Sediment flux 2 ($\text{g cm}^{-2} \text{yr}^{-1}$)	Chesapeake Bay	S58
Core	Sediment accumulation (cm yr^{-1}), Pamlico River Core M4	Pamlico Sound	S60
Hydro	Sedimentation, relative increase	San Francisco Bay	S72
Hydro	Sedimentation rate ($\text{m}^3 \text{yr}^{-1}$)	San Francisco Bay	S73
Hydro	Sediment load (mg l^{-1}), Brisbane River	Moreton Bay	S74-75
Nitrogen loading			
Hydro	Nitrogen conc. ($\mu\text{mol l}^{-1}$), winter surface water Gotland Deep	Baltic Sea	S61
Hydro	Total nitrogen load (k tons yr^{-1})	Baltic Sea	S53, 62
Hydro	Nitrate (NO_3) local winter concentration (μM)	Wadden Sea	S64
Hydro	Ammonia and Nitrite (NH_4+NO_2) autumn concentration (μM)	Wadden Sea	S64
Hydro	Total nitrogen concentration (μM), Rhine river	Wadden Sea	S64-65
Hydro	Nutrient load, Po River	N. Adriatic Sea	S56, 68-69
Core	Nitrogen flux ($\mu\text{g cm}^{-2} \text{yr}^{-1}$), Pamlico River Core M4	Pamlico Sound	S60
Hydro	Nitrate concentration ($\mu\text{mol l}^{-1}$), San Joaquin River	San Francisco Bay	S63
Hydro	Nitrogen concentration ($\mu\text{mol l}^{-1}$), Brisbane River	Moreton Bay	S76
Phosphorus loading			
Hydro	Phosphorus conc. ($\mu\text{mol l}^{-1}$), winter surface water Gotland Deep	Baltic Sea	S61
Hydro	Total phosphorus load (k tons yr^{-1})	Baltic Sea	S53, 62
Core	Phosphorus-flux ($\mu\text{g cm}^{-2} \text{yr}^{-1}$), Pamlico River Core M4	Pamlico Sound	S60
Hydro	Phosphorus concentration ($\mu\text{mol l}^{-1}$), Brisbane River	Moreton Bay	S76
Primary productivity			
Core	Primary productivity based on TOC and C-flux	Baltic Sea	S53-54
Hydro	Organic matter turnover ($\text{gC m}^{-2} \text{yr}^{-1}$)	Wadden Sea	S64
Hydro	Annual primary productivity ($\text{gC m}^{-2} \text{yr}^{-1}$), Marsdiep	Wadden Sea	S63, 66
Hydro	Annual primary productivity ($\text{gC m}^{-2} \text{yr}^{-1}$), Dutch Wadden Sea	Wadden Sea	S63, 67
Core	Total phytoplankton abundance (cells g^{-1} sediment)	N. Adriatic Sea	S56
Hydro	Ratio chlorophyll <i>a</i> at nutrient rich:nutrient poor sites	Gulf of St. Lawrence	S71
Core	Enrichment of algal organic matter (x-fold)	Chesapeake Bay	S58
Core	TOC flux 1 ($\text{mg cm}^{-2} \text{yr}^{-1}$)	Chesapeake Bay	S58
Core	TOC flux 2 ($\text{mg cm}^{-2} \text{yr}^{-1}$)	Chesapeake Bay	S59
Core	TOC flux ($\text{mg cm}^{-2} \text{yr}^{-1}$), Pamlico River Core M4	Pamlico Sound	S60
Core	Diatom-flux ($\text{no. cm}^{-2} \text{yr}^{-1}$), Pamlico River Core M4	Pamlico Sound	S60
Eutrophic plankton			
Core	Ebridian abundance (%), eutrophic diatoms	Baltic Sea	S55
Core	Ebridian abundance (cells g^{-1} sediment)	N. Adriatic Sea	S56
Core	Planktic:benthic diatom ratio	Chesapeake Bay	S59
Core	Centric:pennate diatom ratio, Pamlico River Core M4	Pamlico Sound	S60
Epiphytic diatom decline			
Core	Decline in %-abundance of <i>Cocconeis</i> sp.	Chesapeake Bay	S59

Core	Decline in %-abundance of <i>Cocconeis</i> sp., Pamlico River Core M4	Pamlico Sound	S60
Hypoxia / Anoxia			
Core	Arial extent (km ²) of anoxic sediments (laminations), Baltic Proper	Baltic Sea	S51-52
Hydro	Decline of oxygen concentration (O ₂ mg l ⁻¹), Kiel Bay	Baltic Sea	S63
Hydro	Oxygen variability in bottom water (ml l ⁻¹)	N. Adriatic Sea	S70
Core	Anaerobic bacterial biomarker abundance	Chesapeake Bay	S58
Core	Degree of Pyritization, Pamlico River Core M4	Pamlico Sound	S60
Hydro	Anoxia / hypoxia, relative increase	San Francisco Bay	S72

Table S8. Invasive species records with details on regional availability (e.g. time series for the North Sea were used as a proxy for the Wadden Sea), species considered, time series or year of reporting, total number of invasions recorded at the end of time series, and references for each study system.

System	Region	Species	Time series	No. invasions	Ref.
By time					
Baltic Sea		aquatic	1245-2004	107	<i>S77</i>
Wadden Sea	North Sea	marine & estuarine	1250-1996	80	<i>S78</i>
Outer Bay of Fundy	Bay of Fundy to Long Island Sound	marine & estuarine (excluding cryptogenic)	1817-1999	86	<i>S79</i>
Chesapeake Bay		marine & brackish	1609-2002	150	<i>S80</i>
San Francisco Bay		marine & tidal fresh	1850-1995	164	<i>S81</i>
By taxonomic group					
Baltic Sea		aquatic	2004	107	<i>S77</i>
Wadden Sea		marine & estuarine	2004	51	<i>S82</i>
N. Adriatic Sea		marine	2002	41	<i>S83</i>
Outer Bay of Fundy	Bay of Fundy to Long Island Sound	marine & estuarine (excluding cryptogenic)	1999	86	<i>S79</i>
Chesapeake Bay		marine & brackish	2002	150	<i>S80</i>
Galveston Bay		marine & estuarine	2005	16	<i>S84</i>
San Francisco Bay		marine & tidal fresh	1995	164	<i>S81</i>

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