**Table S5.** Summary of societal pressures identified from international bodies (n=24) as well as the target variables for sustained observations. Numbers indicate the percentage of the international bodies addressing each of them.

	%	
PRESSURES	Conventions	TARGET VARIABLES
Loss of	92	Species presence/absence and distribution (from microbes to marine
resources:		mammals), status of populations (e.g. abundance of commercially
habitats /		important, migratory, and "iconic" species), fisheries production,
biodiversity		captures and by-catch, extent (cover) of living benthic habitats (coral
(including		reefs, seagrasses, mangroves)
overfishing)		
Climate	50	Primary productivity, harmful algal blooms, coral bleaching (extent)
change		
Pollution /	46	Phytoplankton diversity and biomass, presence of toxic, waterborne
eutrophication		pathogens, harmful algal blooms
Coastal	38	Extent (cover) of living benthic habitats (coral reefs, seagrasses,
development		mangroves)
Invasive	33	Range (presence) and abundance of invasive species
species		
Solid wastes	29	Volume and/or weight marine debris
Ocean	21	Calcareous phytoplankton abundance, coral skeletal density
acidification		
Extreme	21	Extent (cover) of living benthic habitats (coral reefs, seagrasses,
weather		mangroves) susceptible to storms, hurricanes, extreme rainfall and
events		sedimentation
Noise	21	Movement of marine mammals (cetaceans)
Mining	8	Diversity of deep sea benthic species