

## Acronyms

AATAMS	Australian Animal Tracking and Monitoring System
ABA	Arctic Biodiversity Assessment
ABNJ	areas beyond national jurisdiction
ACAP	Agreement on the Conservation of Albatross and Petrels
ACC	Antarctic Circumpolar Current
ACIA	Arctic Climate Impact Assessment
ADCP	Acoustic Doppler Current Profilers
AEWA	Agreement on the Conservation of African-Eurasian Migratory Waterbirds
AEWA	Conservation of African-Eurasian Migratory Waterbirds
AGGRA	Atlantic and Gulf Rapid Reef Assessment
AHWGW	Ad Hoc Working Group of the Whole
AIATSIS	Australian Institute of Aboriginal and Torres Straits Islanders Studies
AIMS	Australian Institute of Marine Science
ALA	Australian Lawyers Alliance
AMAP	Arctic Monitoring and Assessment Program
AMLC	Association of Marine Laboratories of the Caribbean
Anammox	Anaerobic ammonium oxidation
ANAO	Australian National Audit Office
ANDEEP	ANtarctic benthic DEEP-sea biodiversity
ANZECC	Australian and New Zealand Environment and Conservation Council
AoA	Assessment of Assessments

APIS	Antarctic Pack Ice Seals International Programme
ArcOD	Arctic Ocean Diversity project
ARGO	Program of autonomous profiling instruments
AUNAP	Colombian National Authority for Aquaculture and Fisheries
AUV	autonomous underwater vehicle
BAP	Biologically active Phosphorus
BATS	Bermuda Atlantic Time-series Study
BENTANTAR	Antarctic Benthos
BGS	British Geological Survey
BLM	Bureau of Land Management
BMAPA	British Marine Aggregate Producers Association
BOEM	United States Bureau of Ocean Energy Management
BON	biodiversity observation network
BRDs	by-catch reduction devices
CAFF	Conservation of Arctic Flora and Fauna
CALCOFI	California Cooperative Oceanic Fisheries Investigations program
CAML	Census of Antarctic Marine Life
CARICOMP	Caribbean Coastal Marine Productivity Programme
CARSEA	Caribbean Sea Ecosystem Assessment
CBD	Convention on Biological Diversity
CBMP	Arctic Council Circumpolar Biodiversity Monitoring Program
CCAMLR	Commission for the Conservation of Antarctic Marine Living Resources
CCD	Carbonate Compensation Depth
CCE LTER	California Current Ecosystem Long Term Ecological Research

CCSBT	Commission for the Conservation of Southern Bluefin Tuna
CCYIA	China Cruise and Yacht Industry Association
CFCs	chlorofluorocarbons
CHONe	Canadian Healthy Oceans Network
CICES	Common International Classification of Ecosystem Goods and Services
CIRVA	Comité Internacional para la Recuperación de la Vaquita
CITES	Convention on International Trade in Endangered Species of Wild Fauna and Flora
CLIVAR	Climate Variability and Predictability programme
CLME	Caribbean Large Marine Ecosystem Project
CMFRI	Indian Central Marine Fisheries Research Institute
CMS	Convention on the Conservation of Migratory Species of Wild Animals
CNKI	China Knowledge Resource Integrated Database
CNRS	Chize British Antarctic Survey
COBSEA	Coordinating Body on the Seas of East Asia
CoML	Census of Marine Life
CORDIO	Coral Reef Degradation in the Indian Ocean
COSEWIC	Committee on the Status of Endangered Wildlife in Canada
COTS	Crown-of-thorns starfish <i>Acanthaster planci</i>
CPR	Continuous Plankton Recorder
CPUE	catch per unit effort
CSP	central subarctic Pacific
CTD	Conductivity, Temperature and Depth
CTI-CFF	Coral Triangle Initiative on Coral Reefs, Fisheries and Food Security

CTO	Caribbean Tourist Organization
DEFRA	United Kingdom, Department of Environment, Food and Rural Affairs
DFID	United Kingdom, Department for International Development
DFO	Department of Fisheries and Oceans Canada
DfT	United Kingdom, Department for Transport
DPSER	Drivers, Pressures, States, Ecosystem Services, Responses
DPSIR	Driver Pressure State Impact Response
DUML	Duke University Marine Laboratory
DWT	Dead-weight tonnage
EAC	environmental assessment criteria
EASIZ	Ecology of the Antarctic Sea Ice Zone
EBAs	ecosystem-based approaches
EBSAs	Ecologically or Biologically Significant Marine Areas
EBVs	Essential Biodiversity Variables
EcoQOs	ecological quality objectives
ED	electro-dialysis
EDI	electro-de-ionization
EEA	European Environment Agency
EEZs	exclusive economic zones
EFH	Essential Fish Habitat
EIA	United States Energy Information Administration
EIA	Environmental Impact Assessments
ENSO	El Niño/Southern Oscillation.
EPOS	European Polarstern Study

ERCCIS	Environment Records Centre for Cornwall
ESCWA	United Nations Economic and Social Commission for Western Asia
ESP	Ecosystem Service Partnership
ESP	eastern subarctic Pacific
EVOLANTA	Evolution in the Antarctic
FESS	Foundation for Environmental Security and Sustainability
FGGE	First GARP Global Experiment
FIPE	Fundação Instituto de Pesquisas Econômicas
FMAP	Future of Marine Animal Populations
FOODBANCS	Food for Benthos on the Antarctic Continental Shelf
GARP	Global Atmosphere Research Programme
GBIF	Global Biodiversity Information Facility
GBRMPA	Great Barrier Reef Marine Park Authority, Australia
GCC	Gulf Cooperation Council
GCN	Global Core Network
GCOS	Global Climate Observing System
GCRMN	Global Coral Reef Monitoring Network
GEMS	Global Environment Monitoring System
GEO BON	Global Biodiversity Observation Network
GEOHAB	Global Ecology and Oceanography of Harmful Algal Blooms
GEOSECS	Geochemical Ocean Sections Study
GESAMP	Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection
GIS	geographic information system

GLOBEC	Global Ocean Ecosystem Dynamics
GLOSS	Global Sea Level Observing System
GMAD	Global Marine Aquarium Database
GODAE	Global Ocean Data Assimilation Experiment
GODP	Global Ocean Drifter Program
GoMA	Gulf of Maine Area project
GoMRI	Gulf of Mexico Research Initiative
GOOS	Global Ocean Observing System
GOSR	Global Ocean Science Report
GPP	Gross primary production
GPS	global positioning systems
GTN-R	Global Terrestrial Network for River Discharge
GTS	WMO's Global Telecommunications System
GWI	Global Water Intelligence
HABs	Harmful Algal Blooms
HAPCs	Habitat Areas of Particular Concern
HBS	Hawaii Biological Survey
HELCOM	Helsinki Commission
HLPE	High Level Panel of Experts on Food Security and Nutrition of the Committee on World Food Security
HNLC	High Nutrient Low Chlorophyll zones
HOTO	Health of the Ocean
IAA	Indo-Australian Arc
IAATO	International Association of Antarctic Tourism Operators

IACS	International Association of Classification Societies
IATTC	Inter-American Tropical Tuna Commission
IBA	International Marine Important Bird Areas
IBAMA	Instituto Brasileiro do Meio Ambiente e dos Recursos Naturais Renováveis
ICCAT	International Commission for the Conservation of Atlantic Tunas
ICES	International Council for the Exploration of the Sea
ICMBIO	Instituto Chico Mendes de Conservação da Biodiversidade
ICRI	International Coral Reef Initiative
ICS	International Chamber of Shipping
ICSICH	Intergovernmental Committee for the Safeguarding of the Intangible Cultural Heritage
ICSU	International Council of Scientific Unions
ICZM	Integrated coastal zone management
IDH	intermediate disturbance hypothesis
IEA	International Energy Agency
IFAW	International Fund for Animal Welfare
IGBP	International Geosphere-Biosphere Programme
IGOSS	IOC/WMO Integrated Global Ocean Services System
IGY	International Geophysical Year (1957-58)
IIOE	International Indian Ocean Expedition
IMA	Institute of Marine Affairs in Jamaica
IMARPE	Instituto del Mar del Peru
IMBER	Integrated Marine Biogeochemistry and Ecosystem Research
IMMS	International Marine Minerals Society

IMO	International Maritime Organization
IMOS	Integrated Marine Observing System
IMR	Norwegian Institute of Marine Research
INVEMAR	Instituto de Investigaciones Marinas y Costeras, Colombia
IOC/UNESCO	Intergovernmental Oceanographic Commission of UNESCO
IOCARIBE	International Oceanographic Commission-Caribe
IOCAS	Chinese Academy of Sciences - Institute of Oceanology
IOCoML	Census of Marine Life Programme
IODP	International Ocean Discovery Programme
IOPCF	International Oil Pollution Compensation Funds
IOSEA	Indian Ocean-Southeast Asia Marine Turtle Memorandum of Understanding
IOTC	Indian Ocean Tuna Commission
IPBES	Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services
IPCC	Intergovernmental Panel on Climate Change
IRVSI	University of Delaware, International Research Vessels Schedules and Information
ISA	International Seabed Authority
ISC	International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean
ISME	International Society for Mangrove Ecosystems
ISSF	International Seafood Sustainability Foundation
ITCZ	Intertropical Convergence Zone
ITF	International Transport Workers Federation
ITOPF	International Tanker Owners Federation



IUCN	International Union for the Conservation of Nature
IUU	illegal, unreported and unregulated (fishing)
IWC	International Waterbird Census
IWC	International Whaling Commission
JaLTER	Japan Long-term Ecological Research Network
JBON	Japan Biodiversity Observation Network
JCOMM	WMO-IOC Joint Technical Commission for Oceanography and Marine Meteorology
JGOFS	Joint Global Ocean Flux Study
JNCC	Joint Nature Conservation Committee
JNREG	Joint Norwegian-Russian Expert Group
LC-LP	London Convention and London Protocol
LGP	Latitudinal Gradient Project
LLDCs	Group of Landlocked developing Countries
LMEs	Large Marine Ecosystems
LMR	Living Marine Resources
MAB	UNESCO's Man and the Biosphere Programme
MALSF	Marine Aggregate Levy Sustainability Fund
MAP	Mangrove Action Project
MARAD	United States Department of Transportation, United States Maritime Administration
MAR-ECO	Mid-Atlantic Ridge Ecosystem
MARMAP	Marine Resources Monitoring, Assessment and Prediction
MARPOL	International Convention for the Prevention of Pollution from Ships
MCES	marine and coastal ecosystem services

MCS	monitoring, control and surveillance
MEA	Millennium Ecosystem Assessment
MED	Multiple-Effect-Distillation
MEPC	IMO Marine Environment Protection Committee
MESP	Marine Ecosystems Services Programme.
MFF	Mangrove Alliance, Mangroves for the Future
MGR	marine genetic resources
MIZ	marginal ice zone
MMA	Brazilian Ministry of Environment
MMC	United States Marine Mammal Commission
MMS	Minerals Management Service
MOC	meridional overturning circulation
MPA	Mineral Products Association
MPA	Marine Protected Area
MPMMG	Marine Pollution Monitoring Management Group
MSF	Multi-Stage-Flash
MSFD	Marine Strategy Framework Directive
MSR	Marine Scientific Research
MTSG	Marine Turtle Specialist Group
MTSG	Marine Turtle Specialist Group of IUCN
NAFO	Northwest Atlantic Fisheries Organization
NaGISA	Natural Geography of Inshore Areas
NAMMCO	North Atlantic Marine Mammal Commission
NANI	Net anthropogenic nitrogen input

NAPAs	National Adaptation Programmes of Action
NBSC	National Bureau of Statistic of China
NEAFC	North East Atlantic Fisheries Commission
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NIOP	Netherlands Indian Ocean Programme
NIWA	National Institute of Water and Atmospheric Research, New Zealand
NMFS	USA National Marine Fisheries Service
NMMA	National Marine Manufacturers Association
Norad	Norwegian Agency for Development Cooperation
NOWPAP	North-West Pacific Action Plan
NPFC	North Pacific Fisheries Commission
NPP	Net primary production
NPTZ	North Pacific Transition Zone
NRC	United States National Research Council
NRSMPA	Australia's National Representative System of Marine Protected Areas
NZ EPA	New Zealand Environmental Protection Authority
OA	Ocean Acidification
OBG	Oxford Business Group
OBIS	Ocean Biogeographic Information System
OBIS	Ocean Biodiversity Information System
OBIS-SEAMAP	Ocean Biogeographic Information System Spatial Ecological Analysis of Megavertebrate Populations
OCSEAP	MMS Outer Continental Shelf Environmental Assessment Program Minerals Management Service
OHI	Ocean Health Index

OMZs	oxygen minimum zones
OSPAR	Convention for the Protection of the Marine Environment of the North-East Atlantic, formerly the Oslo-Paris Convention
OUC	Ocean University of China
PAR	photosynthetically active radiation
pCO <sub>2</sub>	Measurements of the "partial pressure of CO <sub>2</sub> "
PDO	Pacific decadal oscillation
PIPA	Phoenix Islands Protected Area
PMI	IUCN's Pacific mangrove initiative
POC	particulate organic carbon
POST	Pacific Ocean Shelf Tracking
PSP	paralytic shellfish poisoning
PW	produced water
PUB	Singapore Public Utilities Board
REDD+	programme - Reduced Emissions from Deforestation and forest Degradation
Redfield Ratio	a C:N:P ratio of 106:16:1 (Redfield et al., 1963)
REMPEC	Regional Marine Pollution Emergency Response Centre for the Mediterranean
RES	relative environmental suitability
RESA	rapid ecosystem service assessment
RFMO/As	regional fisheries management organizations and arrangements
RFMOs	fisheries management organizations
RMUs	regional management units
RNSIIPG	Peru's Guano Islands, Islets and Capes National Reserve System

RO	Reverse osmosis
ROS	reactive oxygen species
ROVs	remotely operated vehicles
RSMAS	Rosenstiel School of Marine and Atmospheric Sciences of the University of Miami
RSPB	Royal Society for the Protection of Birds
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SAB	South Atlantic Bight
SAFARI	Societal Applications in Fisheries and Aquaculture using Remotely-Sensed Imagery
SAIAB	South African Institute of Aquatic Biodiversity
SARCE	South American Research Group in Coastal Ecosystems
SCAR	Scientific Committee on Antarctic Research
SCD	Supply Chain Digest
SCSIOCAS	South China Sea Institute of Oceanology
SEAFO	Southeast Atlantic Fisheries Organization
SEAMAP	Southeast Area Monitoring and Assessment Program
SEEA	System of Environmental-Economic Accounting.
SEEF	Seamount Ecosystem Evaluation Framework
SGIMC Effects	Study Group on Integrated Monitoring of Contaminants and Biological Effects
SIDS	small island developing States
SIMAC	Sistema Nacional de Monitoreo de Arrecifes Coralinos en Colombia
SIOFA	Southern Indian Ocean Fisheries Agreement
SLR	sea-level rise

SMOL	Seamounts Online
SOA	State Oceanic Administration of the People's Republic of China
SOOP	Ship-of-Opportunity Programme
SOOPIP	Ship-of-Opportunity Programme and its Implementation Panel
SOTO	Canada's State of the Oceans Report
SPAW	Caribbean Protocol Concerning Specially Protected Areas and Wildlife to the Convention for the Protection and Development of the Marine Environment in the Wider Caribbean Region
SPC	Secretariat of the Pacific Community
SPRFMO	South Pacific Fisheries Management Organization
SRREN	Special report on Renewable Energy Sources and Climate Change Mitigation
SST	Sea-surface temperature
SWEC	South-West Economy Centre, University of Plymouth
SWIOFC	South West Indian Ocean Fisheries Commission
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TAC	total allowable catch
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TAO	Tropical Atmosphere Ocean project
Tbps	Terabits per second
TC/OPC	Technical Committee for Ocean Processes and Climate
TEEB	The Economics of Ecosystems and Biodiversity
TNC	the Nature Conservancy
TOGA	Tropical Ocean-Global Atmosphere Study
TOPP	Tagging of Pacific Pelagics

TRB	Transportation Research Board
TRL	Technological Readiness Level
TSG	ThermoSalinoGraphs
TZCF	transition-zone chlorophyll front
UKHO	United Kingdom Hydrographic Office
UKTAG Directive	United Kingdom Technical Advisory Group on the Water Framework Directive
UNCTAD	United Nations Conference on Trade and Development
UNEP/GEMS	United Nations Environment Programme, Global Environment Monitoring System
UNESCO	United Nations Educational, Scientific and Cultural Organization
UNGA	United Nations General Assembly
UNSC	United Nations Security Council
UNSCEAR	United Nations Scientific Committee on the Effects of Atomic Radiation
UOHC	upper ocean heat content
USCG	United States Coast Guard
USGS	United States Geological Survey
USMA	United States Maritime Administration
UWI	University of the West Indies
VC	vapour compression
VMEs	Vulnerable Marine Ecosystems
WAVES	Wealth Accounting and the Valuation of Ecosystem Services
WCPFC	Western and Central Pacific Fisheries Commission
WCPFC	Western and Central Pacific Fisheries Commission
WCRP	World Climate Research Programme

WHO	World Health Organization
WIDECAST	Wider Caribbean Sea Turtle Conservation Network
WISE	World Information System on Energy
WNA	World Nuclear Association
WOA	World Ocean Assessment
WOCE	World Ocean Circulation Experiment
WOD	World Ocean Database
WOMARS	Worldwide marine radioactivity studies
WRI	World Resources Institute
WSP	western subarctic Pacific
WSSD	World Summit on Sustainable Development
XBT	Expendable Bathythermograph
XCTD	expendable disposable conductivity, temperature and depth