

ACRONYMS

AFS	American Fisheries Society
AFSC	Alaska Fisheries Science Center
AIS	Aquatic Invasive Species
ALOS	Advanced Land Observing System
AOOS	Alaska Ocean Observing System
APEC	Asia Pacific Economic Cooperation
ASC	Annual Science Conference, ICES
ASP	Amnesic shellfish poisoning
BASIS	Bering-Aleutian Salmon International Survey, NPAFC
BCLME	Benguela Current Large Marine Ecosystem programme
BEST	Bering Ecosystem Study
BSIERP	Bering Sea Integrated Ecosystem Research Program
CA	Comprehensive Assessment
CalCOFI	California Cooperative Oceanic Fisheries Investigations
CAISN	Canadian Aquatic Invasive Species Network
CAMEO	Comparative Analysis of Marine Ecosystem Organization, NOAA
CARBO-OCEAN	Marine carbon sources and sinks assessment
CARINA	Carbon in the North Atlantic project
CCAMLR	Commission for the Conservation of Antarctic Marine Living Resources
CCE-LTER	California Current Ecosystem – Long-Term Ecological Research
CCHDO	CLIVAR and Carbon Hydrographic Data Office
CCRS	Center for Climate System Research, University of Tokyo
CCS	California Current System
CDIAC	Carbon Dioxide Information and Analysis Center
CDN	Canadian dollar
CEOHAB	Chinese Ecology and Oceanography on Harmful Algal Blooms program
CFC	Chloro-fluorocarbons
CIBNOR	Centro de Investigaciones Biológicas del Noroeste
CITES	Convention on International Trade in Endangered Species
CLIOTOP	Climate Impacts on Oceanic Top Predators
CLIVAR	Climate Variability and Predictability Program
ChloroGIN	Chlorophyll Ocean Globally Integrated Network
CMS	Convention on Migratory Species
COCO-NEMURO	CCSR Ocean Component Model-NEMURO
CREST	Core Research for Evolutional Science and Technology
DFO	Department of Fisheries and Oceans, Canada
DIC	Dissolved Inorganic Carbon
DMAS	Data Management and Archival System
DMCR	Department of Marine and Coastal Resources, Thailand
DOC	Dissolved Organic Carbon
DSP	Diarrheic Shellfish Poisoning
EAM	Ecosystem Approach to Management
EAST-I, -II	East Asian Seas Time-Series-I, -II
EBM	Ecosystem-Based Management
ECCO	Estimating the Circulation and Climate of the Ocean
Ecopath/Ecosim	Ecological/Ecosystem modeling software
ECS	East China Sea

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ECYS	East China/Yellow Seas
EDRR	Early Detection and Rapid Response
EEZ.	Exclusive Economic Zone
EPA	Environmental Protection Agency, U.S.
ERAIMA	Environmental Risk Assessment and Interactions of Marine Aquaculture
ESMF	Earth Systems Modeling Framework
ESR	Ecosystem Status Report
ESSAR	Ecosystem Studies of Subarctic and Arctic Regions
ESSAS	Ecosystem Studies of the Sub-Arctic Seas
Eur-OCEANS	European Network of Excellence for Ocean Ecosystems Analysis
FDGC	Federal Geographic Data Committee, U.S.A.
FVCOM	Finite Volume Coastal Ocean Model
EVOSTC	Exxon Valdez Oil Spill Trustee Council
FAO	Food and Agriculture Organization, UN
FAO-COFI	FAO's Committee on Fisheries International
FEIS	Fisheries and Environment of Inland Sea, Japan
FERHRI	Far Eastern Regional Hydrometeorological Research Institute
FERRRS	Fisheries and Ecosystem Responses to Recent Regime Shifts
FGDC	Federal Geographic Data Committee, U.S.A.
FRA	Fisheries Research Agency of Japan
FTP	File Transfer Protocol
FUTURE	Forecasting and Understanding Trends, Uncertainty and Responses of North Pacific Ecosystems
FVCOM	Finite Volume Coastal Ocean Model
F&WS	Fish and Wildlife Service, U.S.
GCP	Global Carbon Project
GEOHAB	Global Ecology and Oceanography of Harmful Algal Blooms
GEO	Group on Earth Observations, Geneva
GEOSS	Global Earth Observing System of Systems, NOAA
GLOBEC	Global Ocean Ecosystem Dynamics Programme
GLODAP	Global Ocean Data Analysis Project
GODAR-WESTPAC	Global Oceanographic Data Archaeology and Rescue project in the Western Pacific region
GRA	GOOS Regional Alliance
GRAND	GOOS Regional Alliance Network Development Project
GSSC	GOOS Scientific Steering Committee
GTS	Global Telecommunications System
GTSP	Global Temperature–Salinity Pilot Project
HAB(s)	Harmful Algal Bloom(s)
HACCP	Hazard Analysis of Critical Control Point
HAE-DAT	ICES-IOC Harmful Algal Event Database
HAIS	Harmful Algae Information System
HAMP	Harmful Algae Monitoring Program
HNFRI	Hokkaido National Fisheries Research Institute
HNLC	High nutrients–low chlorophyll
HPLC	High Performance Liquid Chromatography
HTL	Higher Trophic Level
IATTC	Inter-American Tropical Tuna Commission
ICCAT	International Commission for the Conservation of Atlantic Tunas
ICES	International Council for the Exploration of the Sea
ICES-IOC WGHABD	Working Group on Harmful Algal Bloom Dynamics

IGO	Inter-Governmental Organization
IGOOS	Intergovernmental Committee for GOOS
IKMT	Isaacs–Kid Midwater Trawl
IMBER	Integrated Marine Biogeochemistry and Ecosystems Research
IMO	International Maritime Organization
IOC	Intergovernmental Oceanographic Commission, UNESCO
IOC-ANCA	IOC HAB working group for Central America and Caribbean Sea
IOC-FANSA	IOC HAB working group for South America
IOCCP	International Ocean Carbon Coordinated Project
IODE	International Oceanographic Data Information Exchange, IOC
IOOS	Integrated Ocean Observing System
IOS	Institute of Ocean Sciences, Canada
IPCC	Intergovernmental Panel on Climate Change
IPHC	International Pacific Halibut Commission
IPY	International Polar Year
ISO	International Organization for Standardization
IWC	International Whaling Commission
JARPA	Joint Aquatic Resources Permit Application
JCOMM	Joint WMO–IOC Technical Commission for Oceanography and Marine Meteorology
JCOPE	Japan Coastal Ocean Predictability Experiment
JES	Japan/East Sea
JFA	Japan Fisheries Agency
JHA	Japan Hydrographic Association
JMA	Japan Meteorological Agency
JNCC	Joint Nature Conservation Committee
JODC	Japanese Oceanographic Data Center
J-QUEST	Japan Quantitative Echo-sounder and Stereo TV-camera system
JSPS	Japanese Society for Promotion of Science
KO	Kurashio/Oyashio currents
KODC	Korea Oceanographic Data Center
KORDI	Korea Ocean Research and Development Institute
KOSEF	Korean Science and Engineering Foundation
LME	Large Marine Ecosystem
LTL	Lower Trophic Level
MAFF	Ministry of Agriculture, Forestry and Fisheries, Japan
MEOW	Marine Ecosystems of the World
MIRC	Marine Information Research Center, Japan
MIROC	Model for Interdisciplinary Research on Climate
MIS	Marine/Estuarine Invasive Species
MLR	Multiple Linear Regression
MNRE	Ministry of Natural Resources and Environment, Thailand
MOHT	Matuda-Oozeki-Hu Trawl
MOMAF	Ministry of Maritime Affairs and Fisheries, Republic of Korea
MOU	Memoranda of Understanding
MPA	Marine Protected Area
NAFO	Northwest Atlantic Fisheries Organization
NAMMCO	North Atlantic Marine Mammal Commission
NANOOS-IOOS	Northwest Association of Networked Ocean Observing Systems – Integrated Ocean Observing System
NASCO	North Atlantic Salmon Conservation Organization
NCAR	National Center for Atmospheric Research

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NEAR-GOOS	North East Asian Regional Global Ocean Observing System
NEMURO	North Pacific Ecosystem Model for Understanding Regional Oceanography
NEMURO.FISH	NEMURO For Including Saury and Herring
NEMURO.SAN	NEMURO for simulating Sardine and ANchovy
NEP	North East Pacific
NEPTUNE	North-east Pacific Time-series Undersea Network Experiments
NFRDI	National Fisheries Research and Development Institute, Korea
NGO	Non-Governmental Organization
NISBASE	Non-Indigenous Species Database
NMDIS	National Marine Data and Information Service, P.R. China
NMEFC	National Marine Environmental Forecasting Center, P.R. China
NMFS	National Marine Fisheries Service, NOAA
NOAA	National Oceanographic and Atmospheric Administration, U.S.A.
NOWPAP	Northwest Pacific Action Plan
NPAFC	North Pacific Anadromous Fish Commission
NPESR	North Pacific Ecosystem Status Report
NPRB	North Pacific Research Board, U.S.A.
NPZD	Nutrients-phytoplankton-zooplankton-detritus
NSDI	National Spatial Data Infrastructure
NSF	National Science Foundation, China; National Science Foundation, U.S.A.,
NWFSC	Northwest Fisheries Science Center, NOAA
ODE	Ordinary Differential Equation
ODIN-WESTPAC	Ocean Data and Information Network for the Western Pacific
OECOS	Oceanic Ecodynamics Comparison in the Subarctic Pacific
OSPAR	Commission for the Protection of the Marine Environment of the North East Atlantic
PaCOOS	Pacific Coast Ocean Observing System
PAG	Pacific Arctic Group
pCO ₂	Partial pressure of carbon dioxide in surface sea water
PCEIS	Pacific Coast Ecosystem Information System
PEST	Parameter Estimation software for automated calibration and data interpretation of models
PEMSEA	Partnerships in Environmental Management for the Seas of East Asia
PICES	North Pacific Marine Science Organization
PIRE	Partnership for International Research and Education program, U.S.A.
POI	V.I. Il'ichev Pacific Oceanological Institute, Russia
POMA	PICES Ocean Monitoring Service Award
PORSEC	Pacific Ocean Remote Sensing Conference
PRBO	Point Reyes Bird Observatory
PSA	Pacific Science Association
PSC	Pacific Salmon Commission
PSG	Pacific Seabird Group
PSP	Paralytic Shellfish Poisoning
PSU	Portland State University, U.S.A.
QA/QC	Quality Assurance/Quality Control
RAC-SPA	Regional Activity Centre for Specially Protected Areas
RDMDB	Regional Delayed-Mode Database
RFP	Request for Proposal
RMP	Revised Management Procedure
RMT	Rectangular Midwater Trawl
ROMS	Regional Ocean Modeling System
RRTDB	Regional Real-Time Database

RTDB	Real-Time Database
SAHFOS	Sir Alister Hardy Foundation for Ocean Science
SCOPE	Scientific Committee on Problems of the Environment
SCOR	Scientific Committee on Oceanic Research
SCUBA	Self-Contained Underwater Breathing Apparatus
SEEDS	Subarctic Pacific Iron Experiment for Ecosystem Dynamics Study
SEA-GOOS	Southeast Asia-GOOS
SERIES	Subarctic Ecosystem Response to Iron Enrichment Study
SIO	Scripps Institution of Oceanography, U.S.A.
SOA	State Oceanic Administration, China
SOCER	State of the Cetacean Environment Report
SO-GLOBEC	Southern Ocean Global Ocean Ecosystem Dynamics Programme
SOLAS	Surface Ocean–Low Atmosphere Study
SPAW	Specially Protected Areas and Wildlife
SOWS	Southern Ocean Whale Sanctuary
SPC	South Pacific Commission
SPREP	South Pacific Regional Environmental Program
SSC	Scientific Steering Committee
SSG-GOOS	GOOS Scientific Steering Committee
SST	Sea surface temperature
START	South Asian Regional Committee for the System for Analysis, Research and Training
STRATOGEM	Strait of Georgia Ecosystem Modelling
TAC	Total Allowance Catch
TBD	To Be Determined
TINRO-Centre	Pacific Scientific Research Fisheries Centre, Russia
TMA	Technology and Management for Aquaculture
TNFRI	Tohoku National Fisheries Research Institute
TOR	Terms of Reference
TOS	The Oceanography Society
UMCES	University of Maryland Center for Environmental Science
UN	United Nations
UNEP	United Nations Environmental Programme
URL	Uniform Resource Locator
USGS	U.S. Geological Survey
US-OCB	U.S.-Ocean Carbon and Biogeochemistry
VENUS	Victoria Experimental Network Under the Sea, Canada
WCRP	World Climate Research Program
WDCGG	World Data Centre for Greenhouse Gases
WESTPAC	IOC Sub-Commission for the Western Pacific
WHP	WOCE Hydrographic Program
WGBOSV	Working Group on <i>Ballast and Other Ship Vectors</i> , ICES/IOC/IMO
WGDIM	Working Group on <i>Data and Information Management</i>
WGECO	Working Group on <i>Ecosystem Effects of Fishing Activities</i> , ICES
WGITMO	Working Group on <i>Introductions and Transfers of Marine Organisms</i> , ICES
WMO	World Meteorological Organization
WOCE	World Ocean Circulation Experiment
YOOS	Yellow Sea Ocean Observing System
YSLME	Yellow Sea Large Marine Ecosystem