

FUTURE's AP-COVE Related National/Regional Projects

Project	Funding agency/country	Duration	Contact	Purpose	Web
ACCASP (Aquatic Climate Change and Adaptation Services Program)	DFO, Canada		R. Brown	Annually funded projects that investigate climate change impacts to maritime sectors and fisheries, sustainable ecosystems, and safe and secure waters	http://www.dfo-mpo.gc.ca/science/oceanography-oceanographie/accasp/index-eng.html
NEPTUNE Canada	UVic, Canada		Kim Juniper, K. Moran	Continental shelf and offshore cabled observatory system	http://www.neptunecanada.com/
Nereus	Nippon Foundation Japan/UBC, Canada	2010-2019	V. Christensen	Simulating the future ocean - develop scientifically credible simulations of future fish populations and policy options for the world oceans; developing research capacity and international cooperation, raising public awareness of the state of the oceans	http://www.nereusprogram.org/content/about-nf-ubc-nereus-%E2%80%93-predicting-future-ocean
Assessment of the climate impact on the South Sea ecosystem	China	2008-2013	J. Zhang, J.G. Fang, T. Xiao, D.J. Huang, S.M. Liu	Understanding the effects of climate/marine environment changes (global warming, acidification) and predicting the future changes on ecosystem structure and function	
Chinese Polar Environment Comprehensive Investigation & Assessment Programmes	SOA, China	2011-2015	L. Zhan, L. Chen (GCMAC, SOA)	Budgets of N ₂ O and CH ₄ in Polar and Subpolar marine systems	
Sustainability of Marine Ecosystem Production under Multi-stressors and Adaptive Management	Korea	2011-2015		Impact of external forcings (Multi-stressors) from climate change and anthropogenic perturbations on the marine ecosystems. Responses of marine ecosystem and change in function and services	
POSEIDON (Northwestern Pacific Ocean Study on Environment & Interactions between Deep Ocean & marginal seas)	Korea	2006-2015		To suggest the best scenario for 2030 in association with the climatic impacts by examining and configuring the correlation between the Northwestern Pacific and the marginal seas	http://east-1.snu.ac.kr/intro/index.php
YES Cold Water (The study on the impact of the Yellow Sea Bottom Cold Water Mass to the ecosystem)	KIOST, KOREA	2012-2014	Woong-Seo Kim, Seok Lee, Se-Jong Ju, Jung-Hoon Kang	To better understand effects of cold water mass on the ecosystem by investigating temporal and spatial variation in structure and dynamics of planktonic trophic components in the Yellow Sea Bottom Cold Water	
KOREA EAST-1 (East Asian Seas Time Series)	Korea	2006-2015	K.-I. Chang, T. Lee, C. K. Kang, K.-R. Kim	Identify, quantify, and model the dynamic processes governing the climate variability and their linkage to changes in marine ecosystems	http://east-1.snu.ac.kr/intro/index.php

SKED (The study of Kuroshio Ecosystem Dynamics for Sustainable Fisheries)	MEXT, Japan	2011-2021	H. Saito (FRA)	Understanding the mechanisms of high fisheries productivity from oligotrophic Kuroshio ecosystem	http://tnfri.fra.affrc.go.jp/kaiyo/sked/english/index.html
NEOPS (New Ocean Paradigm on its Biogeochemistry, Ecosystem and Sustainable Use)	MEXT, Japan	2012-2017	K. Furuya (U. of Tokyo)	Developing new ocean provinces based on BGC and ecosystem studies for sustainable use of marine ecosystem services. Half natural sciences, half social	http://ocean.fs.a.u-tokyo.ac.jp/index-e.html
“Hot spot” in the climate system	MEXT, Japan	2010-2015	H. Nakamjura (U. of Tokyo)	Extra-tropical air-sea interaction under the East Asian monsoon system	
Tohoku Ecosystem-Associated Marine Science	MEXT, Japan	2011-2020	Akihiro Kijima, Kazuhiro Kogure, Hiroshi Kitazato	Understanding the perturbation damage by 3.11 Tsunami in the coastal ecosystems in Tohoku, Japan. (AICE related project)	http://www.i-teams.jp/
NEOPS <i>Hakuho-Maru</i> cruise	various funding	2013-2014	K. Furuya, H. Ogawa (U. Tokyo)	Meridional transect cruise of North and South Pacific (170°W) on BGC and Ecosystem	
Evaluation, Adaptation and Mitigation of Global Warming in Agriculture, Forestry and Fisheries	MAFF, Japan	2010-2015	H. Kidokoro (FRA)	Forecasting and mitigation of the impact of global warming on marine ecosystems	
Comprehensive Study of the Far Eastern Seas of Russia and Northern Pacific	Ministry of Economic Development and Russian Academy of Sciences, Russia	2011-2013	V. Lobanov (POI FEB RAS)	Comprehensive study of properties and dynamics of water, atmosphere and lithosphere, their interactions, including process in coastal zone, to understand their influence on climate and formation of biological, mineral and energetic resources and increase effectiveness of marine activity and protect environment of the Far Eastern Seas and Northwestern Pacific	
Integrated investigations of ecosystems and biological resources of the Far Eastern Seas of Russia	Committee on Fisheries, Russia	2012-2016	O. Katugin (TINRO)	To understand status and variability of fisheries resources of the northwestern Pacific and its marginal seas and make assessment for sustainable fishery	
CIMEC (The Cooperative Institute for Marine Ecosystems and Climate)	NOAA, USA		D. Checkeley	To better serve the Nation’s needs through observing and understanding the marine ecosystems and climate in the California Current System, Eastern Tropical Pacific, Southern Ocean, and globally	http://cimec.ucsd.edu/index.html

POBEX (Pacific Ocean Boundary Ecosystems)	NSF/NOAA, USA		E. Di Lorenzo	Investigating the mechanisms of climate-related variability in three Pacific boundary ecosystems: Gulf of Alaska, California Current System, the Humboldt or Peru-Chile Current System, the Kuroshio-Oyashio Extension (KOE) region	http://www.pobex.org
Understanding the spatial and temporal variability of dissolved oxygen through a hierarchy of models	NSF, USA	2009-2013	C. Deutsch, T. Ito	Developing a hierarchy of models to understand observed variability of oxygen in the North Pacific and its relation to physical and biogeochemical processes	
The history and future of coastal upwelling in the California Current	NSF, USA	2012-2012	W. Sydeman, S. Bograd	Using historical time series and climate models to evaluate changes in the intensity and timing of upwelling in the California Current System	
Multi-Scale Modeling	NSF, USA		E. Curchitser	Assessing the role of eastern boundary upwelling regions and their ecosystems on climate variability using a fully coupled model	
BEST Synthesis	NSF, USA		E. Curchitser	The variable transport of pollock eggs and larvae over the Bering shelf: A marriage of physics and biology	
Ocean Observatories Initiative	NSF, USA		T. Cowles	Ocean Observatories Initiative (OOI) will encompass an integrated, global network of ocean sensors providing near-real time data that will transform the study of interrelated ocean processes on coastal, regional, and global spatial scales.	http://oceanobservatories.org/