PICES-2022 Sessions Schedules (Talks)

#### S1 Plenary Science Board Symposium Sustainability of Marine Ecosystems through global knowledge networks during the UN Decade of Ocean Science

11:00	Sukyung Kang Better engagement of PICES science for the UN Decade of Ocean Science: A Korean Perspective
11:30	Fangli Qiao ( <i>recorded</i> ) The intersection of UN Ocean Decade and PICES FUTURE in the North Pacific
12:00	<b>Jeanette Gann</b> <i>(recorded)</i> Increasing Capacity and Incentives for Data Sharing within the UN Decade, and Strategies to Incorporate PICES Research and Data into Broader International Platforms
12:30	<u>Naya Sena</u> Identifying the Ocean Decade challenges: A common framework for Small Island Developing States
13:00	Lunch
14:00	Emanuele Di Lorenzo Co-Designing Climate Solutions under the U.N. Ocean Decade
14:30	Gennady Kantakov (recorded) Shall We Repeat Plastics Research
15:00	Steven J. Bograd SmartNet: The ICES-PICES Joint Program of the UN Decade of Ocean Science for Sustainable Development
15:30	<b>Vyacheslav Lobanov</b> Possible abiotic causes of catastrophic ecosystem event in Avachinskiy Bay of Kamchatka in 2020
16:00	Coffee/Tea Break
16:30	John A. Barth Mapping widespread hypoxia off the Pacific Northwest during the 2021 summer upwelling season: A necessary ingredient to informing sustainable use of the ocean
17:00	Misty B. Peacock Lifting the voices of Indigenous students to empower the next generation of ocean leaders
17:30	S1 Ends

 $\underline{\text{ECS}}$  underlined

S3: Realizing scalable artificial intelligence in marine science		cial intelligence in ne science projecting climate variability and change on northern hemisphere marine ecosystems using coupled next generation biophysical model		variabil pelagic North F mechan method ecosyste into ass	S5: Environmental variability and small pelagic fishes in the North Pacific: exploring mechanistic and pragmatic methods for integrating ecosystem considerations into assessment and management		HD-MEQ-Paper Session	
				8:55	Introduction by Convenors	-		
9:00	Introduction by Convenors	9:00	Introduction by Convenors	9:00	Isaac C. Kaplan (Invited) Options for	9:00	Introduction by Convenors	
9:10	Jeong-Yeob Chae Artificial neural network for ocean surface current prediction around the Korean peninsula using transfer learning	ENSO prediction modulated by interactive d phytoplankton feedback		environmental variability into management of California Current	9:10	<b>Sang-chul Yi</b> Economic valuation of fisheries monitoring programs: A case of the international fisheries observer program of Korea		
9:30	Ho-Jeong Ju Impacts of seasonal and interannual variabilities of sea surface temperature on its short-term deep- learning prediction model around the southern coast of Korea	9:30	Hyung-Gyu Lim Attribution and predictability of climate-driven variability in global ocean color	9:30	Gloria S. Duran Gomez Assessment of multiscale nutrient supply processes on biological productivity in the Tokara Strait along the Kuroshio	9:30	Hana Matsubara Comparative and historical study of international guideline and policy documents of Japan relevant to gender equality in fisheries	
9:50	Eun-Joo Lee Reconstruction of Long-Term Gaps of Sea Level Using Neural Network Operator	9:50	Daniele Bianchi (by Keith Rodgers) Sources of uncertainty in global projections of oceanic fish biomass under climate change	9:50	Takeyoshi Nagai Effects of the Kuroshio nutrient stream intrusion into the north of Yaku Island and Osumi Strait south of Kyushu	9:50	Seung-Kyu Kim Importance of terrestrial input on marine microplastics as traces recorded in sediments from rivers through estuaries to open seas	
10:10	Igor I. Shevchenko (recorded) Bayesian inference for extracting information from abundance and catch at age time series	10:10	Abigale Wyatt Ecosystem impacts of marine heat waves in the Northeast Pacific	10:10	Seonggil Go Recruitment variability of chub mackerel (Scomber japonicus) with respect to varying water temperatures	10:10	Suhendar I. Sachoemar Strategic planning ciguatera research to build local warning networks for the detection and human dimension of ciguatera fish poisoning in Indonesia	
10:30	Coffee/Tea Break	10:30	Coffee/Tea Break	10:30	Coffee/Tea Break	10:30	Coffee/Tea Break	

S3 Con	ntinued	S7 Con	tinued	S5 Con	tinued	<b>HD-MEQ-Paper</b> Continued		
10:50	Yang Liu (cancelled) AIS data-driven- automatic machine learning model for predicting suitable fishing vessel operating areas in- Northwest Pacific	10:50	Keith Rodgers Future projections of fish biomass to 2300: uncertainty over global and regional scales	10:50	Jinwoo Gim Effect of climate change on the Korea chub mackerel stock in stock assessment via an age- structured model	10:50	Arief Rachman Potential threats of harmful algal blooms (HABs) and ciguatera fish poisoning (CFP) in the marine tourism park of Gili Matra islands, Indonesia	
11:10	Ferdenant Mkrtchyan (recorded) The Problem of Learning to Make Statistical Decisions for Small Samples for Remote Monitoring Marine Ecosystems	11:10	Hui Liu Mechanistic modeling of dynamics and blooms of jellyfish in light of climate change in the northern Gulf of Mexico	11:10	<b>Kyuhan Kim</b> Evaluation of model specification and parameter identifiability in state-space stock assessment models with an application to the Korea chub mackerel (Scomber japonicus) stock	11:10	Discussion	
11:30	Annalisa Bracco Using Machine Learning to evaluate ecosystem connectivity and biodiversity in marine ecosystems	11:30	Cody Szuwalski (recorded) The collapse of eastern Bering Sea snow crab	11:30	Jeanette C. Gann (recorded) Responses to Phytoplankton Size and Community Composition by <i>Calanus</i> and <i>Pseudocalanus</i> During Late Summer in the Southeast Bering Sea: potential implications for age-0 pollock recruitment	11:30	HD-MEQ Paper Session Ends	
11:50	<b>Emily Lemagie</b> Machine learning approaches for processing large datasets from the Prawler and Oculus glider autonomous platforms	11:50	Poster introductions	11:50	Yanhui Zhu Calibration of Multiple Fishing Vessels by Using Secondary Reflection from Sea Bottom			
12:10	Discussion	12:10	Wrap up	12:10	Lunch			
12:30	S3 Ends	12:30	S7 Ends					

S5 Con	tinued
14:00	Jhen Hsu (Invited) Evaluating the spatiotemporal dynamics of Pacific saury in the Northwestern Pacific Ocean by using a geostatistical modelling approach
14:30	<b>Chris Rooper</b> <i>(recorded)</i> Evaluation of modeling methods for assessing and comparing the abundance of two size classes of eulachon in British Columbia
14:50	Minkyoung Bang Future changes in the distributions of chub mackerel ( <i>Scomber japonicus</i> ) in the seas around Korea using a Maximum Entropy Model based on CMIP6: Importance of seasonal variation
15:10	Matthew R. Baker Shifting distribution and abundance of sand lance in the Arctic in response to the physical environment
15:20	Poster Contributions
15:40	Wrap up
16:00	S5 Ends Coffee/Tea Break

S2: Marine Ecosystem Services – Connecting Science to Decision Making			S9: The effects of ocean acidification and climate change stressors on the ecophysiology and toxicity of harmful algal species			
9:00	Introduction by Convenors	9:00	Introduction by Convenorss			
9:05	Kelly Biedenweg (Invited Recorded) Integrating human wellbeing indicators in Puget Sound ecosystem restoration	9:05	Nour Ayache (Invited) Acclimation of various US Dinophysis isolates to changing light intensity: effects on growth, photosynthetic efficiency and toxin production			
9:30	30 Michael Townsend (Invited Recorded) Implementing the marine ecosystem service concept		Young Kyun Lim Effect of marine heatwaves on the bloom of harmful dinoflagellate Cochlodinium polykrikoides in Korean coastal waters: Field and laboratory approaches			
9:55	Iwao Fujii   Toward the inter-regional cooperation for high seas resource conservation: Implications from	9:50	Andrew R.S. Ross Correlation between ocean temperature and the concentrations of harmful algal biotoxins measured in British Columbia coastal waters			
	the Asia-Pacific region	10:10	Svetlana Esenkulova			
10:15	Monica Ogawa Floating marine debris in Shiretoko, Japan: relationship between debris density, type and		Linkages among harmful algae, marine biotoxins in shellfish, and oceanographic conditions in the Strait of Georgia, Canada			
	human activities	10:30	Coffee/Tea Break			
10:35	Coffee/Tea Break					
		10:50	Clare Ostle			
10:55	Jongyoon Baek Evaluation of ecosystem services provided by Pacific oyster, Crassostrea gigas, farms in Hansan bay, South Korea		Using the Continuous Plankton Recorder to detect and monitor the spread of Harmful Algal Blooms from the Pacific into the Arctic Ocean			
		11:10	William P. Cochlan			
11:15	Michael Litzow Climate attribution time series to support decision making by fisheries stakeholders		Climate Change and the Growth and Toxicity of Pseudo-nitzschia multiseries from the California Current Upwelling System: Effects of Ocean Acidification and Temperature			
			Discussion			
11:35	Yeajin Jung Blue carbon in South Korea: Knowledge gaps, critical issues, and novel approaches	11:45	S9 Ends			
11:55	Discussion	-				
12:10	S2 Ends	-				

S4: Application and best practice of imaging technologies for plankton and ecosystem monitoring		technologies for plankton zooplankton to fisheries research		S6: Using eDNA to assess and manage Non-indigenous species in the North Pacific		
				8:55	Introduction by Convenors	
9:00	Introduction by Convenors	9:00	Introduction by Convenors	9:00	Michio Kondoh (invited)	
9:05	<b>Robert K. Cowen (Invited)</b> Advances in imaging technology and image analysis – applications in coastal systems	9:05	Jennifer Boldt (Invited) (recorded) Linking zooplankton to fish: integrated ecosystem monitoring can inform ecosystem approaches to fisheries management		ANEMONE: an eDNA-based biodiversity monitoring network	
9:30	<b>Robert Campbell</b> The Prince William Sound Plankton Camera: a profiling in situ observatory of plankton and particulates	9:30	Hui Liu Linking zooplankton to fisheries stock assessment and management in changing ecosystems: challenges and opportunities	9:40	John Darling ( <i>recorded</i> ) Environmental DNA as a tool for invasive species surveillance	
9:50	Wenjie Zhang (recorded) An automatic deep learning based measurement of plankton size	9:50	Akinori Minagawa The food source of anguilliform leptocephali in the Satsunan area, southern Japan	-		
10:10	Hongsheng Bi A novel end-to- end deep learning system for classifying marine biological and environmental images	10:10	Jieun Kim Spatiotemporal trophic dynamics of four zooplankton taxa in the East/ Japan Sea revealed by stable isotopes and fatty acid composition	10:10	Satoshi Nagai Attempts to predict occurrences of plankton species by AI technologies in Mombetsu, Hokkaido, Japan	
10:30	Coffee/Tea Break	10:30	Coffee/Tea Break	10:30	Coffee/Tea Break	
10:50	Ingibjorg Bjorgvinsdottir and Kristinn Sigurdarson A new portable tow-yo imaging system for marine snow and plankton using image recognition and tracking technique	10:50	Julie E. Keister Evidence of the importance of zooplankton to salmon success in the southern Salish Sea, USA	10:50	Sang-Eun Nam Effects of antifoulants on the formation of marine biofouling communities monitored in Jangmok using environmental DNA metabarcoding approach	
11:10	<b>Gaoge Chen</b> <i>(recorded)</i> A dual mode imaging method for phytoplankton a combination of shadowgraph imaging and fluorescence imaging	11:10	<b>Réka Domokos</b> Spatiotemporal variability of micronekton at two fronts in the central North Pacific	11:10	Jinhui Wang Assess Non-indigenous- species in East China sea- using traditional methods and eDNA	
11:30	Xiaojin Cui (recorded) Increase depth of field for underwater microscopic imager	11:30	Orio Yamamura Unexpected mass-occurrence of walleye pollock Gadus chalcogrammus in the epi-pelagic layer at the edge of the ocean basin: the benefit from copepod bloom	11:30	Thomas Therriault Marine invasive species biosurveillance in the northeast Pacific by eDNA metabarcoding	

S4 Con	tinued	S8 Con	tinued	S6 Continued		
11:50	Discussion	11:50	Tomoko Kusano How to adapt larval growth of widely appearing fish to food availability in the Kuroshio?	11:50	<b>Chang-Bum Jeong</b> Metazoan diversity and seasonality through eDNA approaches: Surveillance of non-indigenous species in Jinhae Bay	
12:10	Lunch	12:10	Hirata Manami Metabarcoding analysis on prey of fish larvae appearing in the Kuroshio and its neighboring waters	12:10	Pengbin Wang (cancelled) Detection and quantification of four main harmful algal species in the East China Sea (Yangtze river estuary) via quantitative real-time PCR	
		12:30	Lunch	12:30	Lunch	
14:00	<b>Dai Liu (recorded)</b> Copepoda in Yellow Sea coastal areas: influence factors for the distribution of density and size structure	14:00	Mutsuo Ichinomiya Seasonal influence of intrusion from the Kuroshio Current on microplankton biomass and community structure in the northern Satsunan area, western Japan	14:00	Wooseok Gwak (recorded) An eDNA-based approach to investigate species diversity and exotic species in fish	
14:20	Moritz S. Schmid Planktonic trophodynamics in the Northern California Current - multiyear in-situ observations derived from underwater imaging	14:20	<b>Tomohiro Komorita</b> Temporal changes of micoplankton community after the inflow of the Kuroshio branch current in the Northern Satsunan region, southern Japan during mixing period	14:20	Svetlana Esenkulova Assessing winter Gulf of Alaska biodiversity and non- indigenous species using eDNA surveys.	
14:40	Junting Song (recorded) Differential response of coastal plankton to tidal and diurnal variations	14:40	Lidia Yebra (recorded) Molecular identification of the zooplanktonic diet of Sardina pilchardus larvae in the SW Mediterranean Sea	14:40	Jang-Seu Ki eDNA metabarcoding reveals high microalgae diversity in the East China Sea near Jeju Island and marine environments of Korea	
15:00	Atsushi Yamaguchi Zooplankton community and size structure from surface to deep-sea for the various neighboring waters of Japan: Analysis by ZooScan	15:00	Karyn Suchy (recorded) Model-based zooplankton productivity and trophic transfer efficiency in the Strait of Georgia, Canada	15:00	General Discussion and Next Steps	
15:20	Yi Zhu ( <i>recorded</i> ) Influence of freshwater on zooplankton distribution in Laizhou Bay	15:20	Discussion			
15:40	<b>David G. Kimmel</b> Automation of rapid zooplankton assessment for use in ecosystem based fisheries management	15:40	Poster Introduction and Closing Remarks			
16:00	Coffee/Tea break	16:00	S8 Ends	16:00	S6 Ends	
16:20	Discussion					
16:40	Wrap up					
16:50	S4 Ends					

				POC-	Paper Session
				7:55	Introduction by Convenors
				8:00	Wonkeun Choi Characteristics and mechanisms of marine heatwaves in the East Asian Marginal Seas: regional and seasonal differences
				8:12	Subi Lee Why are the marine heatwaves long-lasting in the East Korea Bay in the East Sea?
				8:24	Mochamad Riza Iskandar Tracking the pumice rafts from the recent eruption of the submarine volcano Fukutoku- Okanoba, Japan: a perspective from Satellites and Lagrangian Particles tracking
BIO-P	aper Session	FIS-Pa	per Session	8:36	Yusuke Uchiyama Fate of river-derived
8:40	Introduction by Convenors	8:40	Introduction by Convenors	-	microplastics from the South
8:45	Minju Kim Fiddlers on the tidal flat: fiddler crabs change their tunes	8:45	<b>Benjamin, Jeffrey, Laurel</b> Climate-driven changes in size-dependent overwintering		China Sea
	depending on the contexts	depending on the contextssuccess in age-0 Pacific cod (Gadus macrocephalus)		8:48	Questions and Answers
9:00	Seojeong Park Don't tread on my tidal flats: assessment of human trampling effects on the endangered fiddler crab for coastal management	9:00	Kosuke Oyama Age, growth and reproductive biology of areolate grouper Epinephelus areolatus, southern Japan	9:00	Jihwan Kim Interannual variability of barotropic sea level difference across the Korea/Tsushima Strait and its relationship to upper-ocean currents variability in the western North Pacific
9:15	Tomohiro Komorita Characterization of the organic matter of biodeposits derived from marine aquaculture	9:15	Jessica A. Miller Thermal effects on early life stages of Gulf of Alaska Pacific Cod: shifts in	9:12	Youngji Joh Stronger decadal variability of the Kuroshio Extension under simulated future climate change
	bivalves: a meta-analysis approach		reproductive phenology, size, and growth	9:24	<b>Fuad Azminuddin</b> <i>(recorded)</i> Destination of New Guinea Coastal Undercurrent in the
9:30	Seo Yeon Byeon Multiple genetic sources for the golden tide Sargassum patches in northwestern Pacific: temporal variation in their genetic makeup	9:30	:30 <b>Rachael Mallon</b> WANTED: Searching for Longfin Smelt in the Nooksack River and Bellingham Bay		western tropical Pacific: variability and linkages
				9:36	Coffee/Tea Break
BIO-P	Paper Session Continued	FIS-Pa	per Session Continued	POC-	Paper Session Continued

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9:45	Emma Hinako Moritoshi Mating systems and sexual patterns of red-belted anthias	9:45	Sango Nishio Gastric evacuation rate and maintenance ration of	9:51	Questions and Answers
	Pseudanthias rubrizonatusis in different-sized groups in Kagoshima, Japan		pointhead flounder: Why do they feed at pelagic?	9:31	Questions and Answers
10:00	Kate M. Colson (recorded) Changes in pinniped prey consumption along the west coast of North America following protection from hunting and culling	10:00	<b>Steve Lindley</b> Emergence of thiamine deficiency in salmon in the California Current	10:01	Hajin Song Seasonal variability of deep western boundary current in the Philippine Basin from observation and numerical simulation
10:15	Hyuntae Choi Nitrogen isotope baseline isoscape using amino acid nitrogen isotope of copepod Calanus	10:15	Andrey S. Krovnin Association between Far East pink salmon catches and variations of heat content in the upper 100 m of the North	10:13	<b>Yizen Zhong (</b> <i>recorded</i> <b>)</b> Seasonal Variation of the Surface Kuroshio Intrusion into the South China Sea Evidenced by Satellite Geostrophic Streamlines
10:30	Coffee/Tea Break	10:30	Pacific during the wintering seasons, 1978-2021 Coffee/Tea Break	10:25	Jennifer Jackson Identification of a Seasonal Subsurface Oxygen Minimum in Rivers Inlet, British Columbia, Canada
				10:37	Guoqi Han (cancelled) Seasonal and interannual variations in major shelf-scale currents off the west coast of Canada
				10:49	Questions and Answers
10:50	Andrew W Trites Prey consumption by marine mammal in the North Pacific Ocean	10:50	Sei-Ichi Saitoh Application of multiple satellite datasets to sustainable use of salmon resource under changing climate	11:01	<b>Bo Qiu</b> Bi-directional energy cascades in the Pacific Ocean from Equator to Subarctic Gyre
11:05	Minju Kim Potential shift in mesozooplankton community structure in response to climate- driven changes during summer in the Ulleung basin	11:05	Kirill Kivva (moved from 11:20) Pacific water propagation in the Sea of Okhotsk and walleye pollock fishery	11:13	Kang-Nyeong Lee Barotropic Rossby waves induced by tropical instability waves in the Northeastern Pacific Ocean from observation
11:20	<b>Hiroaki Saito</b> Diversity and Biogeography of Dinoflagellates in the Kuroshio Region	11:20	<u>Chuanyang Huang</u> Exploration of the variation in the northwest Pacific fishing ground using improved ocean color Chlorophyll-a data	11:25	and simulation <b>Dong-kyu Lee</b> Peripheral upwelling induced by the merging of low-density water into a warm eddy and its effects on the biological and
11:35	Kirill Kivva Role of sea ice retreat in formation of spring phytoplankton bloom in the Bering Sea	11:35	Shintaro Ohno A comparison study for behavior of Japanese and Chinese neon flying squid vessel in the North Pacific using Automatic Identification System	11:37	physical environment Questions and Answers
11:50	Wrap up	11:50	Wrap up	11:50	Wrap up
12:00	<b>BIO-Paper Session Ends</b>	12:00	FIS-Paper Session Ends	12:00	POC-Paper Session Ends

PICES-2022 Sessions Schedules (Posters)

S1-1	Jill Prewitt The Alaska Ocean Observing System: Critical Research Infrastructure for a Rapidly Changing Arctic
S1-2	Jean-Baptiste Thiebot Consistent seabird migration route across years and populations reveals key areas for marine conservation in the North-western Pacific
S1-3	Aoi Sugimoto How fisheries/marine science looks like in the past, present and future: From an ECOP's perspective in 2022
S1-4	<b>Polina Lobanova (for <u>Aleksandra Malysheva</u>)</b> Development of the maximum specific rate of photosynthesis algorithm: a case study for the Atlantic Ocean
S3-1	Sangyeob Kim Analysis of water quality fluctuations in Estuary using a Random forest
S3-2	Jisook Park Seasonal to multiannual marine ecosystem prediction: Deep learning approaches
S5-1	<u>Iára Andressa Torres Cabrera</u> Effects of spring-neap tides on the sea surface chlorophyll- <i>a</i> in relation to the Kuroshio path modulation during 2006-2021
S5-2	<b>Elena Ustinova</b> Assessment for effect of climate regime shifts and extreme events on the spatial distribution of sardine, mackerels and saury in the Northwestern Pacific
S6-1	<b>Soyeon Kwon</b> Invasion Success of Ascidiella aspersa (Chordata: <i>Tunicata</i> ): A Population Genetic Approach predicts the Genetic Diversity of Populations Introduced in Korea
S6-2	Joengho Kim Variation in genetics, morphology, and recruitment in the invasive barnacle Amphibalanus eburneus (Gould, 1841) in Korea
S7-1	<u>Hyung-Gyu Lim</u> Oceanic and Atmospheric Drivers of Post-El-Niño Chlorophyll Rebound in the Equatorial Pacific
S7-2	Lijian Shi Arctic sea ice concentration retrieval based on FY3 series MWRI sensors
S7-3	<u>Khushboo Jhugroo</u> The role of stratification variability on biogeochemical properties across British Columbia's Queen Charlotte Sound shelf system
S7-4	<u>Dmitry Lozhkin</u> Seasonal and interannual variability of the longwave radiation flux in the northwestern Pacific Ocean according to ERA5 reanalysis data
S7-5	<u>Yu-Jhen Yang</u> IPCC AR6 simulates the impact of climate change under different scenarios on the marine environment and cephalopods in the southern Eastern China Sea
S7-6	<b>Hwa-Jin Choi</b> Predictability of Metabolic index in an Earth System model
S7-7	Eun-Young Kim Environmental impacts on fish catch in the Arctic/Subarctic EEZ assessed with reconstructed ocean biogeochemistry

S8-1	<u>Gakuto Murata</u> Copepod community determined with metabarcoding analysis represents advection of with coastal waters to the Kuroshio
S8-2	Shinsaku Kato Distribution and feeding habits of skinnycheek lanternfish Benthosema pterotum larvae and juveniles in Kagoshima Bay, southern Japan
S8-3	<u>Hiroki Oba</u> Growth and food requirement of chub mackerel Scomber japonicus larvae in the northern Satsunan area, southern Japan
S8-4	<b>Toru Kobari</b> Protein synthetases activity of fish larvae appearing in the Kuroshio and its neighboring waters
S8-5	Liam D. Hubbert A field-based intercomparison of biochemical methods for measuring zooplankton secondary production off the coast of Vancouver Island
S9-1	<b>Wonho Yih</b> Coastal HABs driven by kleptoplastidy and bi-species interaction along the Teleaulax-Msodinium-Dinophysis prey chain
BIO-P-1	Mikhail A. Zuev Helminths in the schoolmaster gonate squid Berryteuthis magister (Berry, 1913) off the northern Kuril Islands
BIO-P-2	<b>Hyun-Jung Kim</b> Attached bacterial community dynamics with changes in core phytoplankton species based on the phycosphere concept
BIO-P-3	<b>Dongwoo Kim</b> Spatial, vertical, size, and taxonomic variations in stable isotopes ( $\delta$ 13C and $\delta$ 15N) of zooplankton and other pelagic organisms in the western North Pacific
BIO-P-4	<b>Egor S. Korneev</b> Macrozoobenthos of river estuaries of Sakhalin Island
BIO-P-5	Minbo Luo Ecological characteristics of Zooplankton community in the Shengsi Sea Area of the East China Sea
BIO-P-6	Nam-Il Won Coastal reservoir utilization and estuarine restoration in Korea: recent cases and lessons
BIO-P-7	Daniel M. Labbé Counting calories: Energy density and lipid content of zooplankton in the Northeast Pacific
FIS-P-1	<b>Denis V. Izmyatinsky</b> Biomass of commercial bottom ichthyofauna in the northwestern part of the Japan/East Sea
HD- MEQ-P-1	<u>Aoi Sugimoto</u> Fisheries in the time of pandemic: toward the sustainable future of seafood system
POC-P-1	<b>Hyeonsoo Cha</b> The causes of the sea level rise in the East Asian marginal seas since 1993
POC-P-2	<b>J.S. Saranya</b> Characteristics and types of evolution of marine heatwaves in the East Sea (Japan Sea)
POC-P-3	<u>Seonghyun Jo</u> Modulation of Kuroshio intensity in the East China Sea on interannual time scales
POC-P-4	<u>Yeongseok Jeong</u> Observations on Enhanced Mixing over the Steep Continental Slopes in the Southwestern East Sea (Japan Sea)

POC-P-5	Day Hong Kim Spatial Patterns of Long-term (1995-2021) Changing Surface and Subsurface Temperature and Salinity around the Korean Peninsula
POC-P-6	<u>Saat Mubarrok</u> Evaluation of Thermocline Depth Bias in the Seychelles-Chagos Thermocline Ridge (SCTR) simulated by the CMIP6 models
POC-P-7	Heeseok Jung Assessment of future changes in the sea surface temperature in the Northwest Pacific projected by CMIP6 models
POC-P-8	<b>Sung Yong Kim</b> Submesoscale mapping of kinematic and physical ocean properties obtained from unmanned surface vehicles and Lagrangian surface drifters
GP-1	<b>Mikhail Stepanenko</b> Potential trends in the Bering Sea pollock recruitment, abundance and spatial distrubution in 2022-2032
GP-2	<b>Roy Durlave</b> Studies on the use of locally (Coxs Bazar and Saint Martin) available alternative renewable seaweeds wastes as compost organic fertilizer resources.
GP-3	Chika Bright Ikele Morphology and Abundance of Crabs ( <i>Decapoda</i> ) In Opi Aji Lake, Enugu State, Nigeria
GP-4	Joon Sang Park Species diversity of epiplastic diatoms at the drifting Chinese plastic debris in Korean coastal waters
GP-5	Ji Nam Yoon Summer distributional characteristics of phytoplankton realted with multiple environmental variables in the Korean coastal waters in 2019
GP-6	Minji Lee Assessment of attached phytoplankton to polypropylene according to season and nutrient conditions
GP-7	Kang Eun Kim Interaction of Marine Nucleocytoplasmic Large DNA Viruses with Eukaryotic Plankton Communities in the Sub-Arctic Kongsfjorden: A Metagenomic Analysis of Marine Microbial Ecosystems
GP-8	<b>Injoo Yoon</b> Assessment of regional progress towards the sustainable development goal 14 in the east sea based on the voluntary national reviews of participating countries
GP-9	Bushra Khalid Higher thermal extremes and relationship of northern Indian Ocean's Sea surface temperature and atmospheric temperature over land in Pakistan
GP-10	<b>Hiroki Yasuma</b> Microplastic ingestion by mesopelagic fish and acoustic quantitative estimate in the Pacific side of Hokkaido Island, Japan
GP-11	<u>Noa Takayama</u> The characteristics of spatial distribution of Mesopelagic fishes by acoustic survey off eastern Hokkaido Island, Japan
GP-12	<u>Kirill O. Tevs</u> The structure and dynamics of phytoplankton in coastal waters of Russky Island (Peter the Great Bay, Sea of Japan)
GP-13	Hiromichi Ueno Stratification in the northern Bering Sea in early summer of 2017 and 2018

GP-14	<b>Takahiro Tanaka</b> An acoustic glider observation for monitoring physical and biological environment in the upper ocean
GP-15	Daisuke Hasegawa Developing High-Resolution Tow-Yo measurements
GP-16	<b>Josep V. Planas</b> Characterization of the sex-determining genomic region in the Pacific halibut ( <i>Hippoglossus stenolepis</i> ) and identification of a putative gene responsible for sex determination
GP-17	<u>Anastasiya Kim</u> Size–age composition and some characteristics of the population biology of Ruditapes philippinarum (Adams et Reeve, 1848) in the Salmon Bay (Aniva Bay, Okhotsk Sea)
GP-18	<b>Ja-Myung Kim</b> Persistent continental shelf carbon sink at the Ieodo Ocean Research Station in the Northern East China Sea
GP-19	<u>Ting-Yu Liang</u> Indicators of pelagic forage community shifts related with the abundance of economic tunas in the Indian Ocean
GP-20	<b>Polina Lobanova for (<u>Sofya Kuzmina</u>)</b> Spatial and temporal variability of chlorophyll-a and its relation to physical and biological parameters: a case study for the European Arctic Corridor
GP-21	Hiroto Abe Salinity regime of the northwestern Bering Sea shelf
GP-22	Hajime Tanaka Japanese Consumers' Demand for Traceability Information -Tokyo Bay Fish Passport as a case study
GP-23	Michael Dadole Ubagan Recruitment and settlement patterns of two invasive ascidians in South Korea
GP-24	Mariya Shihab Ahmed Alboasud Upward expansion of subtropical echinoderms in South Korea
GP-25	Yunwi Heo Biokinetics of fluorophore-conjugated polystyrene microplastics in marine mussels
W1-1	Seonock Woo Genetic resources of deep-sea corals from seamounts in West Pacific by de novo RNA sequencing
W1-2	<u>Andrey I. Alferov</u> Distribution of giant grenadier (Albatrossia pectoralis) at different stages of ontogenesis in the Bering Sea
W1-3	Albina Kanzeparova Features of spatial distribution of dominant groundfish species on the Koko Seamount (Emperor Seamounts) in 2019
W2-1	<b>Mikhail Kuznetsov</b> Acoustic research of spatial distribution and abundance of arctic cod in the southwestern part of the Chukchi Sea in 2003–2020
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W7-1	Yutaka Watanuki Plastics in the stomach of two species of albatrosses in the western North Pacific
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