As of Nov 10_ Ver.2-1:

23rd KJWOC / 14th AWOC 2026 — Program

Toyama, Japan · 9–11 December 2026 ·

*Oral presentations: 12 min talk + 3 min Q&A

[Day 1] December 9 (Wednesday)

	12:30 –	Registration	
	13:00–13:05	Housekeeping Announcements (Secretariat)	
		Opening Ceremony	
	13:05–13:15	Opening Remarks (NPEC)	Motoyuki SUZUKI
	13:15–13:25	Welcoming Remark (Northwest Pacific Action Plan (NOWPAP) Regional Coordinating Unit, Toyama)	Yegor VOLOVIK
	13:25–14:15	**Keynote Speech**	
KN	13:25–14:15	TBD	Joji ISHIZAKA
	14:15–15:15	**Oral Session 1: Current and Future Ocean Observation Missions**	**Chair: TBD**
1	14:15–14:30	Two Decades of Ocean Color Observation: Lessons from GCOM-C/SGLI and Future Perspectives	Hiroshi MURAKAMI
2	14:30–14:45	Matching NASA/PACE Retrievals to BGC-Argo In-situ Measurements: Backscattering and Chlorophyll	J. Xavier PROCHASKA
3	14:45–15:00	Lidar Remote Sensing of Seawater Vertical Structure	Peng CHEN
4	15:00–15:15	Multi-dimensional Integration of Ocean-Color Observations for Coastal-Ocean Ecosystem Monitoring Using GCOM-C/SGLI	Danang Surya CANDRA
	15:15–15:20	Group Photo	
	15:20–15:30	Coffee Break	
	15:30–16:10	**Poster Session 1**	
	16:10–17:25	**Oral Session 2: Atmospheric Correction and Algorithm Validation**	**Chair: TBD**
5	16:10–16:25	Models for Atmospheric Correction of Absorptive Aerosol Using Clustered Regional AERONET Inversion Data	Mikhail LEBEDEV
6	16:25–16:40	Evaluation of Optimization-Based Atmospheric Correction for GOCI-II: Comparison of Modified POLYMER, Original POLYMER, and Operational Baseline in Indonesian Waters	Masykur Septian FAKHRULWAHID
7	16:40–16:55	Multi-mission Reflectance and IOP Retrieval for Monitoring Kuroshio Influence on Coastal Waters of Sagami Bay	Robel M. ASHENAFI
8	16:55–17:10	Performance Evaluation and Regional Transferability of Empirical Algorithms for GOCI-II-Based Dissolved Organic Matter Absorption Retrieval in Korean Coastal Waters	Bau Ashary NASIR
9	17:10–17:25	TBD	Jae-Hyun AHN (KIOST)

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[Day 2] December 10 (Thursday)

	8:30 –	Registration	
	9:00–11:00	**Oral Session 3: Satellite Data Applications (I) — Water Quality and Eutrophication**	**Chair: TBD**
10	9:00–9:15	Toward SDG Indicator 14.1.1a Reporting in the NOWPAP Region: Coastal Eutrophication Potential Derived from GCOM-C/SGLI Data	Genki TERAUCHI
11	9:15–9:30	Enhancing GCOM-C/SGLI Chlorophyll-a Retrieval in Tokyo–Sagami Bay	Jutarak LUANG-ON
12	9:30–9:45	Seasonal Long-Term Changes in Arabian Sea Ocean Colour and Their Link to Harmful Noctiluca scintillans Blooms	Salem Ibrahim SALEM
13	9:45–10:00	Satellite Monitoring of a Massive Harmful Algal Bloom of the Genus Karenia in the Northwestern Part of the Pacific Ocean	Vasilii KACHUR
14	10:00–10:15	Updated Near-Bottom Hypoxia Development in the Upper Gulf of Thailand	Anukul BURANAPRATHEPRAT
15	10:15–10:30	Spatiotemporal Analysis of Water Quality Variability in the Densu Delta, Ghana, Using Planet SuperDove Imagery	Yo MATSUMOTO
16	10:30–10:45	Use of GOCI-II Chlorophyll-a Data for Ise Bay, Japan	Joji ISHIZAKA
17	10:45–11:00	Comparison of Rrs-Based and Kd-Based Approaches for Satellite Estimation of Water Transparency in Toyama Bay	Masataka HAYASHI
	11:00–11:15	Coffee Break	
	11:15–12:45	**Oral Session 4: Satellite Data Applications (II) — Primary Production and Carbon**	**Chair: TBD**
18	11:15–11:30	Winter Storms and Typhoons Modulate the Biological Carbon Pump in Tropical/Subtropical Oceans	Yung-Yen SHIH
19	11:30–11:45	Spatiotemporal Variability of Net Primary Production in the Northwestern Pacific Ocean within 1997–2023 Period	Eko SISWANTO
20	11:45–12:00	Analysis of Factors Contributing to the Enhancement in Primary Production Volume due to Typhoons	Mitsuhiro TORATANI
21	12:00–12:15	A Study on Diurnal Variations in Primary Production around Korean Waters Using GOCI-II	Jong-Kuk CHOI
22	12:15–12:30	Satellite-Based Assessment of Phytoplankton Size Classes in Korean Waters Using Geostationary Ocean Color Imagery	Doni NURDIANSAH
23	12:30–12:45	Combined Hybrid Red–Optical Maximum Band-Ratio Algorithm for Particulate Organic Carbon (CHROMA-POC): Retrieval from GOCI-I in Korean Coastal Waters	MD Rakesur RAHMAN
	12:45–13:45	Lunch Break	
	13:45–15:15	**Oral Session 5: Coastal Habitat Mapping**	**Chair: TBD**
24	13:45–14:00	Remote Sensing of Coastal Blue Carbon and Benthic Resources	Wonkook KIM
25	14:00–14:15	Retrieval and Validation of Shallow-Water Bottom Reflectance Using UAV Multispectral Imagery and Underwater Radiometric Profiles	Seungil BAEK
26	14:15–14:30	Accounting for Mixed-Pixel Effects in Satellite-Based Estimation of Microphytobenthos Chlorophyll-a in Tidal Flats	Sooyoon KOH

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27	14:30–14:45	Multitemporal Mapping of Seagrass and Seaweed Beds Using Sentinel-2 Imagery and a Random Forest Model	Tatsuyuki SAGAWA
28	14:45–15:00	Mapping of Mangroves in Malaysia with AlphaEarth Foundation Model	Wee CHEAH
29	15:00–15:15	Understanding the Relationship between Marine Heatwaves and Coral Bleaching Using Spectral Reflectance	Muhammad Azzam Hanif PRASETYO
	15:15–15:30	Coffee Break	
	15:30–16:45	**Oral Session 6: Satellite Data Applications (III) — Fisheries and Marine Ecosystems**	**Chair: TBD**
30	15:30–15:45	Integrated Assessment of Fishing Grounds in Cempi Bay (FMA 573) Using Satellite Remote Sensing, In-situ Observations, Hydroacoustics and Local Ecological Knowledge	Charles P. H. SIMANJUNTAK
31	15:45–16:00	Ocean Color Data as an Indicator of Fish Abundance during the 2026 El Niño Event in the Eastern Indian Ocean off Java	Jonson LUMBAN-GAOL
32	16:00–16:15	Upper-Ocean Thermal Conditions and Chlorophyll-a Persistence Following Coastal Upwelling South of Java	Made Wirakumara KAMASAN
33	16:15–16:30	Predicting Dolphinfish Potential Fishing Zones Using Satellite Remote Sensing and Boosted Regression Trees in the Waters South of Java	Vianta MANDHALIKA
34	16:30–16:45	Oceanographic Drivers of Cetacean Guild Structure and Community Reorganization in the East Sea (Sea of Japan)	Keiko YAMADA
	16:45–17:25	**Poster Session 2**	
	18:00–19:30	**Reception**	

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[Day 3] December 11 (Friday)

	8:30 –	Registration	
	9:00–10:45	**Oral Session 7: Satellite Data Applications (IV) — Physical Processes and Coastal Modeling**	**Chair: TBD**
35	9:00–9:15	Climatic and Local Physical Drivers of Chlorophyll-a and SST in the Japan Sea: An EOF Analysis of Two Decades of MODIS Observations	Kedarnath MAHAPATRA
36	9:15–9:30	Satellite-Based Analysis of ENSO-Related Sea Surface Temperature Anomalies in Thai Waters	Jitraporn PHAKSOPA
37	9:30–9:45	Global Inspection of Anthropogenic Thermal Forcing on Decadal Coastal Sea Surface Temperature Variability	Jianwei WEN
38	9:45–10:00	Development of a Coupled Atmospheric–Aquatic Radiative Transfer and Hydrodynamic–Ecosystem Model (EcoPARI–FABM–OASIM) for Tokyo Bay	Hiroto HIGA
39	10:00–10:15	Development and Validation of a Bidirectionally Coupled Ecosystem–Radiative Transfer Model for Simulating Underwater Spectral Irradiance in Tokyo Bay	Yui OKURA
40	10:15–10:30	Assessing the Applicability and Limitations of HF Radar and Ocean Color Satellite Data Assimilation for Suspended Matter Transport during Flood Events in Tokyo Bay	Kotaro YAMASHITA
41	10:30–10:45	Three-Dimensional Morphology and Lon-term Variations of the Subpolar Front in the East Sea (Japan Sea)	Eunju KIM
	10:45–11:00	Coffee Break	
	11:00–11:45	**Oral Session 8: AI/Machine Learning and System Development for Operational Use**	**Chair: TBD**
42	11:00–11:15	A New Subsurface Coastal Upwelling Index Using Machine Learning–Reconstructed Temperature and Salinity Structures in the Southwestern East Sea (Japan Sea)	Yoon-Seo JEONG
43	11:15–11:30	A Codeless AI Object Detection Model Approach for Imagery Red Tide Identification and Construction of a Eutrophication Management GIS Information System	Zaixing WU
44	11:30–11:45	Detection of Oyster Rafts and Water Quality Monitoring of Mitsuguchi Bay in Kure City Using Multi-Satellite Data	Yuji SAKUNO
	11:45–12:45	**Closing Session**	
	11:45–12:35	Wrap-up / Discussion / Proposal for Next Workshop	Moderator: Hiroto HIGA
	12:35–12:45	Best Presentation Awards and Closing Remarks	Genki TERAUCHI

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Poster Presentations (Twice: Day 1 & Day 2)

P1	Algorithm validation	Validation of Ocean Color Retrievals in the Optically Complex Coastal Regions of Hokkaido, Japan, Using SGLI/GCOM-C Data	Tomonori ISADA
P2		Improving the OASIM Atmospheric and In-Water Radiative Transfer Model for Coastal Applications Using Himawari-8 and AERONET-OC Data	Tsubasa GOTO
P3		Tuning Satellite-Based Chlorophyll Estimates in the Northern South China Sea: Model Calibration with In situ Data	Shi-Ting LIN
P4	Primary production & carbon	Investigating the Differences between In situ and Satellite-Based Primary Production in the Northern South China Sea	Ruei-Ling LI
P5		Comparing In situ and Satellite-Based Data of Dissolved Organic Carbon in the Northern South China Sea	Wei-Shen CHANG
P6		Comparing In situ and Satellite-Based Data of Dissolved Organic Carbon in Penghu Waters	Sih-Wei LI
P7		Satellite-Based Investigation of Air–Sea CO_2 Fluxes in the China Seas	Siqi ZHANG
P8		Assessing Climate Change Impacts on Marine Photosynthetic Activity and Surface CO_2 Dynamics Using a High-Resolution Ship-Based Observation System	Shintaro TAKAO
P9		Decadal Variability of Simulated Phytoplankton and Nitrate Distributions over the North Pacific Ocean	Yoshikazu SASAI
P10	Bio-optics & phytoplankton	Bio-Optical Characteristics of Total Suspended Matter in the Coastal Waters of Sagami Bay	Yuna ODA
P11		Optical Water Types and Their Relationship to Phytoplankton Functional Types in the Temperate Coastal Waters of Sagami Bay, Japan	Koichi YANO
P12		Characterizing Surface Phytoplankton Bloom Phenology and Vertical Biomass Structure in the Coastal Waters of Sagami Bay	Mia L. CASTILLO
P13		Feasibility of Identifying Phytoplankton Community Structure from Ocean Color Spectra in Tokyo Bay	Hiroto IMAZU
P14	Water quality & coastal processes	Long-Term Water Quality Variability in the Ariake Sea Based on OC-CCI Data	Ran MARUYAMA
P15		Analysis of Ieodo Ocean Research Station Plume Dispersion Based on GOCI-II	Dong Hyeun KIM
P16	Fisheries & ecosystems	Satellite-Derived Chlorophyll-a Blooms and Japanese Anchovy	Pablo HERNANDEZ PASTOR
P17		Assessing Relationships Between Cetacean Sightings and Environmental Variables in the East Sea/Sea of Japan Using Satellite Data	Minseo CHOI
P18	Habitat mapping & bathymetry	Development of a Semi-Analytical Model-Based Shallow-Water Bathymetry Retrieval Method for Multispectral Sensors	Minsu KIM
P19		Shallow Marine Habitat Mapping Using Satellite and UAV Multispectral Imagery: A Case Study from Cempi Bay, Indonesia	Jonson LUMBAN-GAOL

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P20		Stability and Collapse: A Four-Decade Trajectory of Seagrass Cover in a Fringing Reef System, Yoron Island, Central Ryukyus, Japan	Pingkan Mayestika AFGATIANI
P21		Seagrass Mapper: A Web-Based Platform for Mapping Seagrass Powered by Google Earth Engine	Ryoji YAMAGUCHI
P22		Mapping Seagrass Beds in Nanao Bay using SurfScan Single-Beam Sonar Observations in Early Summer 2026 with Sentinel-2 MSI Data	Koji FURUKAWA
P23		Advancing Shallow Coral Reef Monitoring for Ocean Digital Twins: A Physics-Based Nonlinear Spectral Unmixing Approach for Simultaneous Benthic Cover, Water Quality, and Bathymetry Retrieval	Palika WANNAWILAI
P24		Exploring Assessment Methods for Coastal Protection Infrastructure Incorporating Coastal Ecosystems	Hazuki YAMADA