POSTER PRESENTATION LIST OF DITTO SUMMIT 2023

No.	Title	Presenter	Affiliation
PP-1-1	Evolution and dynamics of a summertime penetrating front of the Zhe-Min coast, China	Peng Ye	Zhejiang University
PP-1-2	An observed mesoscale anticyclonic eddy modulated mixed layer depth in the northern Bay of Bengal with strong salinity-stratification in winter	Haoran Tian	Second Institute of Oceanography, MNR, China
PP-1-3	Observed oceanic response to Tropical Cyclone Amphan (2020) from a subsurface mooring in the Bay of Bengal	Yingyu Peng	Shanghai Jiao Tong University
PP-1-4	Errors of Tropical Cyclone-Induced Ocean Waves in Reanalysis Using Buoy Data	Yuan Sun	National University of Defense Technology, China
PP-1-5	Volume transport estimate and variability of the deep overflow across the saddle on the Ninety east Ridge near 10°S	Shanwu Zhang	Third Institute of Oceanography, MNR, China
PP-1-6	Digitalization of Fisheries data	Peter Busumprah	Ministry of Fisheries and Aquaculture Development
PP-1-7	A global gridded ocean salinity dataset with 0.5° horizontal resolution since 1960 for the upper 2000 m	Guancheng Li	Eco-Environmental Monitoring and Research Center, Pearl River Valley and South China Sea Ecology and Environment Administration, Ministry of Ecology and Environment

PP-1-8	A global Lagrangian eddy dataset based on satellite altimetry	Tongya Liu	Second Institute of Oceanography, MNR, China
PP-1-9	Regional Ocean Stereoscopic Observation with Synchronous Network ADCPs	Liang Rao	Institute of Acoustics, Chinese Academy of Sciences
PP-1-10	Dynamic reconstruction of coastal sea level	Hongyang Lin	Xiamen University
PP-1-11	Deep Ocean Circulation in the Subpolar North Atlantic Observed by Acoustically-tracked Floats	Sijia Zou	Xiamen University
PP-1-12	Observations of residual circulation in a macro-tidal channel in the Han River estuary (Korea)	Byung il Yoon	INHA University
PP-1-13	Impact of Typhoons on the Ecological Environment of the Pearl River Estuary	Xin Zhang	National Marine Environmental Forecasting Center, China
PP-1-14	Predicting the Terrestrial Pollution Discharge in the Pearl River Estuary	Jianmin Yu	Second Institute of Oceanography, MNR, China
PP-1-15	Production and transport of dissolved organic carbon in the South China Sea: A modeling study	Wentao Ma	Second Institute of Oceanography, MNR, China
PP-1-16	Influence of seasonal aerosol deposition on the phytoplankton in the subarctic North Pacific	Haoran Zhang	Second Institute of Oceanography, MNR, China
PP-1-17	Delayed reduction of bottom oxygen triggered by net community production observed by a profiling buoy in the Changjiang River plume	Di Wu	Zhejiang University

PP-1-18	Observation and Mechanism Analysis of the Influences of Multiscale Physical Processes on the Forming-vanishing of Hypoxia off the Changjiang Estuary	Zhihao Jiang	Zhejiang University
PP-1-19	Assessing the effect of strong wind events on the transport of particulate organic carbon in the Changjiang River estuary over the last 40 years	Zhihong Wang	Shanghai Jiao Tong University
PP-1-20	Three stages in the variation of the depth of hypoxia in the California Current System 2003-2020 by satellite estimation	Yifan Zhang	Shanghai Jiao Tong University
PP-1-21	Dipole eddies characteristics and generation mechanisms in the Mozambique Channel	Ting Huang	Shanghai Jiao Tong University
PP-1-22	Distribution Patterns of Large Jellyfish and Their Effects on the Zooplankton Community in the Northern Chinese Coastal Seas during the Summer of 2021	Dongjie Guo	Institute of Oceanology, Chinese Academy of Sciences
PP-1-23	The vertical tilt of mesoscale eddies: spatiotemporal variations, physical mechanisms, and potential implications	Hong Li	Fudan University
PP-1-24	Unstructured computational modeling of an interconnected community of coral reefs: an application to the Hawaiian archipelago	Keston Smith	Woods Hole Oceanographic Institution
PP-1-25	OSF- Linking Ocean Science to Ocean Solution	Shizhu Wang	First Institute of Oceanography, MNR, China

PP-1-26	Unveiling Secrets Under the Sea Ice with Ocean Robot Array: Advancing Observation and Predictive Capabilities for Ecosystem Dynamics in the Southern Ocean's Ice-Covered Zone	Yibin Huang	Xiamen University
PP-1-27	Increasing Offshore Wind Turbines along China's coast: Observations from Deep Learning.	Qiannan Ding	East China Normal University
PP-1-28	Important contributions of water-leaving irradiance to the parametrization of ocean surface albedo	Xiaolong Yu	Xiamen University
PP-1-29	Coastal material transport inferred from Lagrangian Coherent Structures	Haowei Sun	Xiamen University
PP-1-30	Elevated estimate of global marine nitrogen fixation rate using a new database	Ya-Wei Luo	Xiamen University
PP-1-31	Seasonal Variations of Sediment Flux in the Yangtze Estuary by Using a Numerical Model and GOCI Data	Guohu Xie	Zhejiang University
PP-1-32	Mechanisms of extremely weakened CO2 uptake in the tropical Indian Ocean during 2015	Enhui Liao	Shanghai Jiao Tong University
PP-1-33	Multi-factor governed synoptical winter bloom in the oligotrophic marginal sea	Mengdi Xu	Xiamen University
PP-1-34	Changing Humboldt squid abundance and distribution at different life stages of oceanic eddies	Xiaoci Wu	Shanghai Ocean University
PP-1-35	Eddy footprints on abundance and habitat distribution of a large predatory squid off Peru	Pengchao Jin	Shanghai Ocean University

PP-1-36	Climate related habitat variations of Humboldt squid in the eastern equatorial waters	Jian Wen	Shanghai Ocean University
PP-2-1	An Assessment of Marine Heatwaves in a Global Eddy-Resolving Ocean Forecast System: A Case Study around China	Yiwen Li	Institute of Atmospheric Physics
PP-2-2	Simulation and projection of the relationship between the North Pacific midlatitude oceanic frontal intensity and the wintertime storm track based on the CMIP6 model	Yao Yao	Nanjing University
PP-2-3	Analysis of the 3-D spatial structure and temporal evolution characteristics of marine heatwaves in the western North Pacific	Qiang Xu	Xiamen University
PP-2-4	Estimating winds by improving HF Radar and ERA5 reanalysis wind in typhoon storm surge simulation	Yanshuang Xie	Xiamen University
PP-2-5	The operational prediction system for the growth-decline and drift of green tides in the Yellow Sea	Jingjing Zheng	National Marine Environmental Forecasting Center, China
PP-2-6	Fast inundation simulation model during storm surge in Macau based on GPU-accelerated and LTS-based shallow water model	He Ma	Zhejiang University
PP-2-7	Deep learning-based fishing ground prediction with multiple environmental factors	Mingyang Xie	Shanghai Ocean University
PP-2-8	Learning Digital Representation of Plankton: The Key to Their Automatic Recognition for Ocean Observation	Jianping Li	Shenzhen Institute of Advance Technology, CAS

PP-2-9	Predict water quality parameters and monitor red tide occurrence through deep learning	Mingchao Liu	Ocean University of China
PP-2-10	Deep Learning Improves Reconstruction of Ocean Vertical Velocity	Ruichen Zhu	Ocean University of China
PP-2-11	Selecting Key Time Steps from Temporal Coastal Metocean Data with Neural Network Encoding	Juntong Chen	East China Normal University
PP-2-12	A Multi-mode Neural Network for the Long-term Ocean Wave Hindcast in the Coastal Region	Jiawen Liao	South China Sea Institute of Oceanology, Chinese Academy of Sciences
PP-2-13	Data Assimilation based on Imitation Learning for Observational and Simulated Data	Maqun Zhang	Ocean University of China
PP-2-14	SST Fusion Data and Its Application in the Operational Sea Temperature Forecast	Yang Liu	National Marine Environmental Forecasting Center, MNR, China
PP-2-15	Remote Sensing Estimation of Organic Carbon Storage in Bare Intertidal Flat Based on SVM Machine Learning Model	Dong Zhang	Nanjing Normal University
PP-2-16	Remote Sensing of Global Sea Surface pH Based on Massive Underway Data and Machine Learning	Zhiting Jiang	Shanghai Jiao Tong University
PP-2-17	Improving Estimates of Global Oceanic Dimethylsulfide (DMS) and their Climate Radiative Effects by the Machine Learning Method and GEOS-Chem-TOMAS	Yan Zhang	Fudan University

PP-2-18	Multi-attention residual network for super-resolution of Arctic Sea ice concentration image	Wankun Chen	Ocean University of China
PP-2-19	Directly Retrieving Water Quality Parameters from Top-of-Atmosphere HiSea-II Measurements	Hanyang Qiao	Xiamen University
PP-2-20	Phytoplankton Size Class determination using remote sensing	Md Shahin Hossain Shuva	University of Chittagong
PP-2-21	Fusion Method for Water Depth Data from Multiple Sources Based on Image Recognition	Huiyu Han	Shanghai Jiao Tong University
PP-2-22	Impact of Atmospheric Transmittance and NLTE Correction on Simulation of High Spectral Infrared Atmospheric Sounder Onboard FY-3E	Peiming Dong	Donghai Laboratory
PP-2-23	Dynamic feature extraction of the Northwest Pacific subarctic front	Jiarui Lian	National University of Defense Technology, China
PP-2-24	Parameterizing Submesoscale Vertical Buoyancy Flux by Simultaneously Considering Baroclinic Instability and Strain-Induced Frontogenesis	Jinchao Zhang	Ocean University of China
PP-2-25	Advection schemes in an unstructured grid sea ice ocean couple model	Qian Wang	Shanghai Jiao Tong University
PP-2-26	Modeling coastal oxygen depletion and its application in prediction and mitigation of marine ecological hazards	Qicheng Meng	Second Institute of Oceanography, MNR, China

PP-2-27	An intercomparison of remote sensing approaches for bathymetry, water's optical properties and benthic types of optically shallow waters based on a co-registered database	Siyuan Hou	Xiamen University
PP-2-28	Spatial reconstruction of long-term (2003-2020) sea surface pCO_2 in the South China Sea using a machine learning based regression method aided by empirical orthogonal function analysis	Zhixuan Wang	Xiamen University
PP-2-29	Mesoscale and sub-mesocale processes modulate the mixed layer depth and chlorophyll distribution in the Kuroshio-Oyashio Extension	Yang Ding	Ocean University of China
PP-2-30	Satellite estimates of net community production based on O2/Ar observations in the northern Gulf of Mexico	Zelun Wu	Xiamen University
PP-3-1	Ocean ventilation controls the contrasting anthropogenic CO2 uptake rates between the western and eastern South Atlantic Ocean basins	Hui Gao	Guangdong Ocean University
PP-4-1	Cloud-Edge Collaborative Ocean Sensing Data Transmission Architecture for DITTOs	Yanglong Sun	Jimei University
PP-5-1	Application concept of digital twins in intelligent design and management of navigation beacons	Kejing Liu	Jimei University
PP-6-1	Strengthen ocean health via international collaboration to achieve sustainable development goal	Yue Jiang	Second Institute of Oceanography, MNR, China

PP-7-1	Application of machine learning tools for coral reef and mangrove habitat mapping in Trinidad and Tobago	Deanesh Ramsewak	The University of Trinidad and Tobago, Chaguaramas Campus
PP-7-2	Digital Reefs – Combining intuitive, interactive visuals with actionable management data in a coral reef digital twin	Nathaniel Mollica	Woods Hole Oceanographic Institution
PP-7-3	The Application of digital twin technology in estimation of size structure of large yellow croaker (*Larimichthys crocea*)	Hongquan Li	Xiamen University
PP-7-4	The Application of Digital Twin Technology in the Study of Dolphin Biosonar	Weijie Fu	Xiamen University
PP-7-5	Regional projection of climate warming effects on coastal seas in east China	Wenxia Zhang	Second Institute of Oceanography, MNR, China
PP-7-6	Climate model uncertainty in regional sea level projections	Kewei Lyu	Xiamen University
PP-7-7	The Weakened Upwelling at the Upstream Kuroshio in the East China Sea Induced Extensive Sea Surface Warming	Yi Wei	Second Institute of Oceanography, MNR, China
PP-7-8	Combined oceanic and atmospheric forcing of the 2013/14 marine heatwave in the northeast Pacific	Huanhuan Chen	Zhejiang university
PP-7-9	Biological data review of seamounts in the northwest Pacific	Dongsheng Zhang	Second Institute of Oceanography, MNR, China
PP-7-10	Seasonal and decadal variability of the carbon sink in the North Pacific	Xianghui Guo	Xiamen University

PP-7-11	Contrasting responses of two diazotroph communities to warming, Fe and P addition in the tropical Western Pacific	Yuanyuan Feng	Shanghai Jiao Tong University
PP-7-12	Study on the controlling effect of coastal benthic ecosystems on jellyfish population dynamic under global change	Wenxiao Zang	Institute of Oceanology, Chinese Academy of Sciences
PP-7-13	The spatial distribution and environmental effects of micronekton in the southwestern Indian Ocean based on acoustic data	Shujie Wan	Shanghai Ocean University
PP-7-14	Study on early warning of storm surge overrunning and inundation risk in the Xiamen Bay	Wen-Zhou Zhang	Xiamen University
PP-7-15	Numerical Simulation of the Coast Inundation around Guangdong-Hongkong-Macao Greater Bay Area	Danya Xu	Southern Marine Science and Engineering Guangdong Laboratory (Zhuhai)
PP-7-16	Integration of Ocean Environment Monitoring and Early Warning System for Enhancing Nuclear Power Plant Cooling System Reliability	Qiang Li	Tsinghua Shenzhen International Graduate School
PP-7-17	Understanding and Mitigating the Impact of Tropical Cyclones	Xueling You	Shanghai Jiao Tong University
PP-7-18	2023 International nutrient inter-comparison voyage and preliminary result in China	Lifang Wang	Xiamen University
PP-7-19	Three-Dimensional Climatological Structures of the Arabian Sea Eddies and Eddy-Induced Flux	Xinyu Lin	Third Institute of Oceanography, MNR, China

PP-7-20	Phytoplankton community response to episodic wet and dry aerosol deposition in the subtropical North Atlantic	Zhongwei Yuan	GEOMAR Helmholtz Centre for Ocean Research Kiel
PP-7-21	An energetic mesoscale anticyclonic eddy in the southern Bay of Bengal in June 2020: A case study	Ruijie Ye	Second Institute of Oceanography, MNR, China
PP-7-22	Characteristics and mechanisms of the intraseasonal variability of Sea Surface Salinity in the Southeastern Arabian Sea during 2015 - 2020	Teng Hui	Third Institute of Oceanography, MNR, China
PP-7-23	Dynamical response of the Arabian Sea oxygen minimum zone to the extreme Indian Ocean Dipole	Zhiwei Zhang	Shanghai Jiao Tong University
PP-7-24	New Insights of Internal Solitary Waves on the Northern Shelf of the South China Sea	Xiaolin Bai	Xiamen University
PP-7-25	Marine plastic pollution	Suryakanta Acharya	PAY-W Clinic
PP-7-26	Mixed and barrier layers in the Arctic Ocean: Model-data comparison	Ru Chen	Tianjin University
PP-7-27	Role of surface rainfall to the extreme sea level variability along the Cox’s Bazar coast of Bangladesh	Islam Md Anowarul	Shahjalal University of Science and Technology
PP-7-28	The effects of climate variability on long-term changes in the Humboldt Current Ecosystem	Zhiping Feng	Shanghai Ocean University
PP-7-29	Long-term variability of the large marine ecosystems in Southwest Atlantic and its responses to climatic regime shifts	Hewei Liu	Shanghai Ocean University