



## 4-Dimensional Virtual Earth for Ocean Studies and Applications

November 20 2023 [15:00-19:10 JST]

DITTO Satellite Event

[https://ditto.geomar.de/satellite\\_events.html](https://ditto.geomar.de/satellite_events.html)

Venue: Miyoshi Hall, JAMSTEC Yokohama Campus

Online:

### **Program: (Japan Standard Time):**

#### **15:00-15:30 Welcome and opening remarks by invited guests**

Dr. Takeshi Kawano, Executive Director, JAMSTEC, Japan

Prof. Fei Chai (Co-Chair, DITTO Summit 2023, China)

Mr. Gen Totani, (Director for Deep Sea–Earth Scientific Research Ocean and Earth Division, MEXT, Japan)

Prof. Martin Visbeck (Co-Chair, DITTO Summit 2023, Germany)

#### **15:30-16:30 Session – 1 Ocean Forecasting (15 mins each)**

##### **Chair: Masami Nonaka**

Dr. Yasumasa Miyazawa (JAMSTEC, Japan), The JCOPE system for a regional DITTO

Dr. Dakui Wang (NMEFC, China), NMEFC's user-based ocean operational forecasting services

Dr. Nariaki Hirose (JMA/MRI, Japan), The MOVE-JPN regional ocean operational forecasting system.

Dr. Aditya Kartadikaria (ITB, Indonesia), An overview of ocean forecasting systems in Indonesia

#### **16:30-17:30 Session – 2 Ocean Environment (15 mins each)**

##### **Chair: Yasumasa Miyazawa**

Dr. Haruka Nishikawa (JAMSTEC, Japan), Build and utilize a digital representation of the fish behavior in a fish farming cage

Dr. Young-Gyu Park (KIOST, Korea), Tracking of floating Sargassum in the Yellow and East China Seas from satellites and modeling

Dr. Mitsuko Hidaka (JAMSTEC, Japan), Beach litter AI: Implementation for society and toward the digital twin

Dr. Pravakar Mishra (NCCR, India), Source to sink: Microplastic - an emerging contamination in the marine environment.

#### **17:30-18:15 Session – 3 Ocean Applications (15 mins each)**

##### **Chair: Haruka Nishikawa**

Dr. Marie Drevillon (MOi, France), Monitoring the scientific quality of Copernicus Marine Service products

Bente Lilja Bye (BLB, Norway), Interoperability for digital twins and downstream services

Dr. Marcos Sotillo (Nologin, Spain), Co-designed downstream tools to enhance uses of operational oceanographic forecast and monitoring services across different end-user communities

**18:15-18:55: Panel Discussions (Understanding gaps and moving forward to establish DTO) Coordinator: Swadhin Behera**

Lead panelists:

Dr. Shuhei Masuda (JAMSTEC, Japan)

Dr. Yoichi Ishikawa (JAMSTEC, Japan)

Dr. Yosuke Fujii (MRI/JMA, Japan)

Prof. Martin Visbeck (Co-Chair, DITTO Summit 2023)

Dr. Enrique Alvarez (MOi/OceanPrediction DCC, France)

**18:55-19:00: Closing remarks**

Dr. Muneo Hori, Director General, VAiG, JAMSTEC, Japan