



**PROGRAM  
at a glance**

**July 16, AM**

*08:30-09:30*

*Registration*

*09:30-10:10*

**Opening ceremony**

*10:10-10:40*

**Plenary 1, Red Hall**

*10:10-10:40* The United Nations Decade of Ocean  
Science for Sustainable Development (2021-  
2030): steps toward implementation phase

Sergey Shapovalov, IO RAS,  
Russia

*10:40-11:10*

*Coffee break, group photo*

*11:10-12:30*

**Plenary 2, Red Hall**

*11:10-11:50* Global impact of the Sato-Umi concept: Mankind in harmony with the Ocean Biome

Michael P. Crosby, Mote  
Marine Laboratory, USA

11:50-12:30 Ocean waves as a missing link between atmosphere and ocean Alexander Babanin, University of Melbourne, Australia

12:30-14:00 **Lunch**

**July 16, PM**

**Theme**

**Session 1**

14:00-15:50	T01: Ocean dynamics and climate	T01-1: Changing climate and ENSO complexity and modulation
14:00-15:50	T02: Marine geology and geological resources	T02-1: Gas hydrates in the Pacific Ocean
14:00-15:50	T03: Ocean environment and ecosystem	T03-1: Marine pollution
14:00-15:50	T05: Polar ocean research and explorations	T05-1: Carbon cycle in the Arctic land - shelf system
14:00-15:40	T07: Undersea vehicles, robotics, acoustics	T07-1: Undersea vehicles and robotics
14:00-15:50	T10: Ocean observations	T10-1: Ocean data management and citizen science
14:00-15:50	T11: Sustainable economy, ocean policy making and education	T11-1: Ecotourism, ecoprojects, marine education

15:50-16:10 **Coffee break**

**Theme**

**Session 2**

16:10-17:50	T01: Ocean dynamics and climate	T01-1: Changing climate and ENSO complexity and modulation ( <i>continued</i> )
16:10-17:40	T02: Marine geology and geological resources	T02-1: Gas hydrates in the Pacific Ocean ( <i>continued</i> )
16:10-17:50	T03: Ocean environment and ecosystem	T03-1: Marine pollution ( <i>continued</i> )
16:10-17:50	T05: Polar ocean research and explorations	T05-2: Polar ocean research and explorations
16:10-17:50	T07: Undersea vehicles, robotics, acoustics	T07-1: Undersea vehicles and robotics ( <i>continued</i> )
16:10-17:50	T11: Sustainable economy, ocean policy making and education	T11-2: Marine policy and integrated ocean management
16:10-17:50	<b>MC Robot: Lecture. Underwater robotics educational kits</b>	Sergey Moun, Vladivostok Robotics Center, Russia

18:00-20:00

**Reception**

**July 17, AM**

08:30-09:00

**Registration**

09:00-11:00

**Plenary 3, Red Hall**

09:00-9:40	Baleen whale localization using a single-hydrophone: method, results, and perspectives	Julien Bonell, Woods Hole Oceanographic Institution, USA
09:40-10:20	Progress and challenge of ocean science in Indonesia for sustainable development in the Western Pacific Region	Zainal Arifin, Indonesian Institute of Sciences, Indonesia
10:20-11:00	Deep sea ecosystems in the northwestern Pacific	Andrey Adrianov, NSCMB FEB RAS, Russia

11:00-11:20

**Coffee break**

**Theme**

**Session 3**

11:20-12:50	T01: Ocean dynamics and climate	T01-2: Observation and modeling of ocean processes
11:20-12:40	T02: Marine geology and geological resources	T02-2: Marine geology and geological resources
11:20-12:50	T03: Ocean environment and ecosystem	T03-2: Ocean environment and ecosystem
11:20-12:50	T06: Ocean engineering, marine constructions and renewable energy	T06-1: Marine engineering
11:20-12:50	T07: Undersea vehicles, robotics, acoustics:	T07-2: Underwater acoustics: measurements, simulation, applications
11:20-12:40	T08: Ocean hazards	T08-1: Ocean hazards
11:20-12:40	T10: Ocean observations	T10-2: Ocean remote sensing

12:50-14:20

**Lunch**

**July 17, PM**

**Theme**

**Session 4**

14:20-15:50	T01: Ocean dynamics and climate	T01-2: Observation and modeling of ocean processes (continued)
14:20-15:40	T02: Marine geology and geological resources	T02-2: Marine geology and geological resources (continued)

14:20-15:40	T04: Ocean and sustainability of human life	T04-1: Ocean and sustainability of human life
14:20-16:10	T06: Ocean engineering, marine constructions and renewable energy	T06-2: Ocean renewable energy
14:20-16:10	T07: Undersea vehicles, robotics, acoustics	T07-2: Underwater acoustics: measurements, simulation, applications ( <i>continued</i> )
14:20-16:00	T09: Fisheries and aquaculture	T09-1: Fisheries Stock Enhancement
14:20-15:40	T10: Ocean observations	T10-2: Ocean remote sensing ( <i>continued</i> )

16:10-16:30 **Coffee break**

### Theme

### Session 5

16:30-17:50	T01: Ocean dynamics and climate	T01-3: Extreme metocean conditions and tsunami
17:30-17:50	T02: Marine geology and geological resources	T02-3: Sedimentology and paleoceanography of the Pacific Ocean
16:30-17:50	T04: Ocean and sustainability of human life	T04-1: Ocean and sustainability of human life ( <i>continued</i> )
16:30-17:50	T06: Ocean engineering, marine constructions and renewable energy	T06-3: Ice field engineering
16:30-17:50	T07: Undersea vehicles, robotics, acoustics	T07-2: Underwater acoustics: measurements, simulation, applications ( <i>continued</i> )
16:30-17:50	T09: Fisheries and aquaculture	T09-2: Sustainable aquaculture production systems and strategies
16:30-17:50	T10: Ocean observations	T10-3: Ocean observations

### July 18, AM

08:30-09:00 **Registration**

09:00-11:00 **Plenary 4, Red Hall**

09:00-9:40	Compatible laboratory modelling and numerical simulation of structured oceanic processes	Yuli Chashechkin, IPMech RAS, Russia
09:40-10:20	Coastal sea level monitoring using satellite radar altimetry: a decade of progress and beyond	Stefano Vignudelli, Consiglio Nazionale delle Ricerche (CNR-IBF), Italy

10:20-11:00	Building on-the-ground capacity in scaling-up integrated coastal management: The role of higher education in implementing SDG 14 and other related goals	Johanna Diwa-Acallar, PEMSEA, Regional Headquarters, Philippines
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11:00-11:20 **Coffee break**

<b>Theme</b>		<b>Session 6</b>
11:20-12:50	T01: Ocean dynamics and climate	T01-2: Observation and modeling of ocean processes <i>(continued)</i>
11:20-13:00	T02: Marine geology and geological resources	T02-3: Sedimentology and paleoceanography of the Pacific Ocean <i>(continued)</i>
11:20-12:40	T03: Ocean environment and ecosystem	T03-2: Ocean environment and ecosystem <i>(continued)</i>
11:20-12:40	T04: Ocean and sustainability of human life	T04-1: Ocean and sustainability of human life <i>(continued)</i>
11:20-12:20	T06: Ocean engineering, marine constructions and renewable energy	T06-4: Port and harbor engineering
12:20-13:00	T06: Ocean engineering, marine constructions and renewable energy	T06-5: Marine constructions for oil and gas exploration and technology
11:20-12:50	T07: Undersea vehicles, robotics, acoustics	T07-2: Underwater acoustics: measurements, simulation, applications <i>(continued)</i>
11:20-12:40	T10: Ocean observations	T10-3: Ocean observations <i>(continued)</i>

12:50-14:20 **Lunch**

**July 18, PM**

<b>Theme</b>		<b>Session 7</b>
14:20-16:00	T02: Marine geology and geological resources	T02-3: Sedimentology and paleoceanography of the Pacific Ocean <i>(continued)</i>
14:20-16:00	T03: Ocean environment and ecosystem	T03-2: Ocean environment and ecosystem <i>(continued)</i>
14:20-16:00	T04: Ocean and sustainability of human life	T04-1: Ocean and sustainability of human life <i>(continued)</i>

14:20-16:00	T06: Ocean engineering, marine constructions and renewable energy	T06-6: Tsunami engineering
14:20-16:00	T10: Ocean observations	T10-3: Ocean observations (continued)
14:20-16:00	T11: Sustainable economy, ocean policy making and education	<b>CANCELLED</b>
14:20-16:00	RTP: Round Table for Press	RTP: Toward the UN Decade of Ocean Science for Sustainable Development: current challenges in the Pacific

16:00-16:20 **Coffee break**

16:20-18:00 **Poster session**

### **July 19, AM**

08:30-09:00 **Registration**

09:00-10:20 **Plenary 5, Red Hall**

09:00-9:40	Coastal observational site for permanent oceanographic research and testing of new measuring techniques: case of the Black Sea	Andrey Zatsepin, IO RAS, Russia
09:40-10:20	Acoustics of shallow water areas with gas saturated sediments	Andrey Lunkov, GPI RAS, Russia

10:20-10:40 **Coffee break**

10:40-12:00 **Plenary 6, Red Hall**

10:40-11:20	Oceanic applications of ALOS PALSAR imagery	Leonid Mitnik, POI FEB RAS, Russia
11:20-12:00	Recent changes in the Okhotsk Sea ecosystem	Yury Zuenko, Pacific Branch of VNIRO (TINRO), Russia

12:00-13:00 **Lunch**

13:00-15:00 Summary discussion/Closing session



