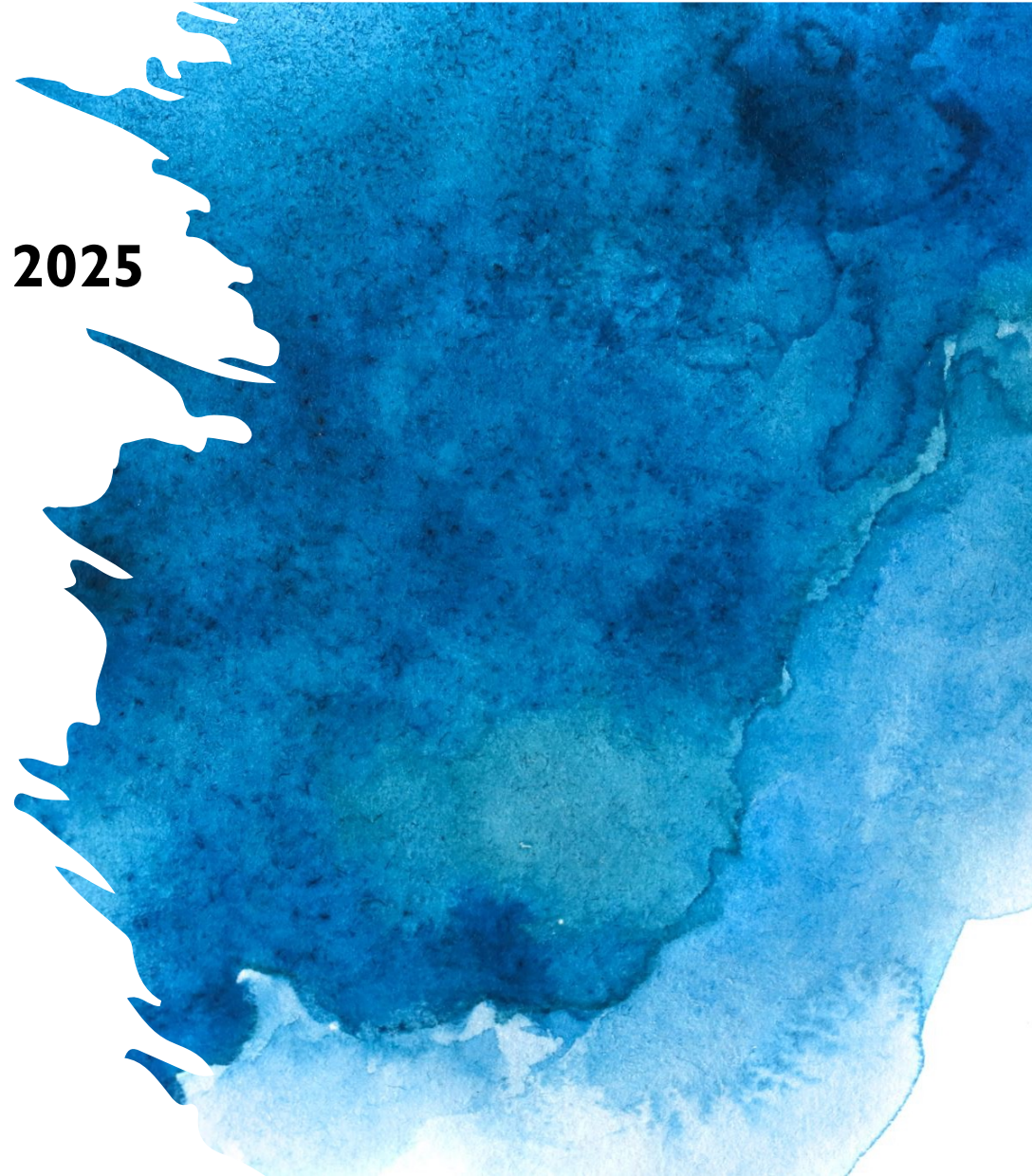


Proposal to Host International Tsunami Symposium – 2025 in India

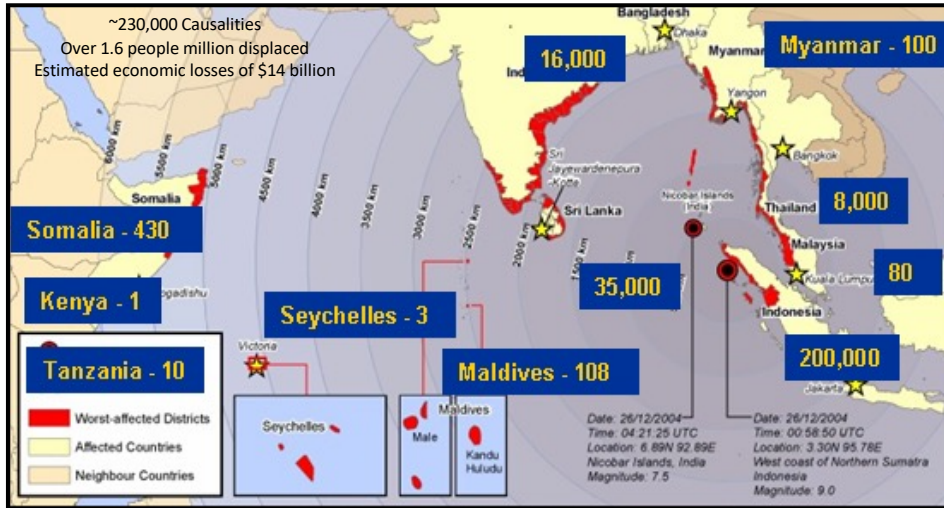
Dr T. Srinivasa Kumar

Director, Indian National Centre for Ocean
Information Services (INCOIS)
Ministry of Earth Sciences, Govt. of India

Joint Tsunami Commission Business Meeting
Berlin, Germany
July 16, 2023



Importance of Indian Ocean & India - Tsunami Perspective



Vulnerability to Oceanogenic Hazards

- Around 33 Nations along the Indian Ocean Rim
- Most are developing countries with 2.5 Billion Population
- More than 66,500 km coastline
- Most of the coastal areas are low lying and vulnerable to oceanogenic disasters such as Tsunamis, Storm Surges, Sea-level rise
- 26 December 2004 Tsunami: 230,000 lives lost (10,749 in India alone)
- 13% of World's cyclones in the Seas around India
- Storm Surges + High Waves + Swells + SL Rise
- IPCC - Annual number of coastal flood victims will soar from 13 to 94 mn by 2100, with 80 percent of this increase occurring along the IOR

Great progress in Tsunami Warning Systems since 2004

- 4 Regional Systems coordinated by the IOC UNESCO - PTWS, IOTWMS, CARIBE EWS, NEAMTWS
- IOTWMS – Network of 3 TSPs (Australia, India, Indonesia) and NTWCs

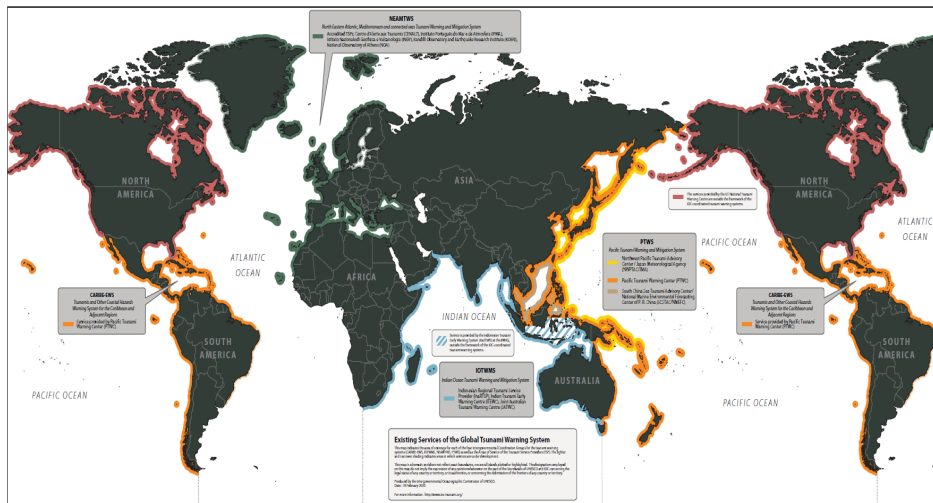
Several challenges evidenced from recent events

- Tsunami warning is race against time - Uncertainties in tsunami warning
- Gaps in Warning and Response capabilities, specially for non-seismic and near-field sources
- Gaps in SOPs and Early Warning Chains
- Gaps in preparedness & response

Ocean Decade Tsunami Programme (2020-2030)

- Observational & Technological Advances to reduce uncertainties
- 100 % at-risk communities prepared & resilient

2024 marks 20th Anniversary of the IOT + Midway to the ODTP

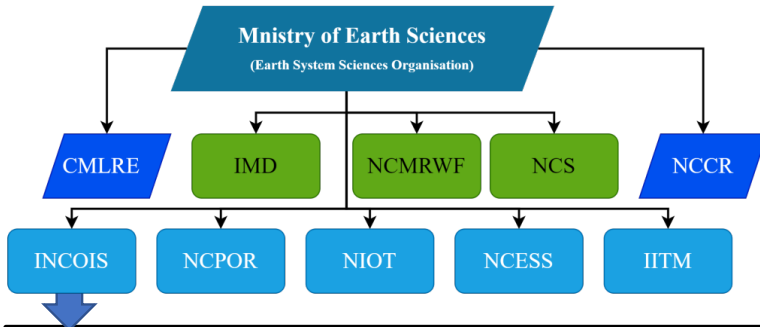




Why Hyderabad ? Global Connectivity and Infrastructure

- Hyderabad is a major hub for international flights and has direct connections to several major cities around the world.
- Hyderabad has excellent infrastructure, including world-class convention centers, hotels, and transportation facilities.
- The city also has a well-organized public transportation system of metro, buses, taxis, and auto-rickshaws, making it easy move around.
- Hyderabad offers a wide range of accommodation options, including luxury hotels, business hotels, budget hotels, and serviced apartments at affordable prices
- Compared to other major international cities, organizing a symposium in Hyderabad can be cost-effective. The cost of accommodations, venue rentals, and other logistics is generally more affordable, making it an attractive choice.

Why INCOIS, Ministry of Earth Sciences



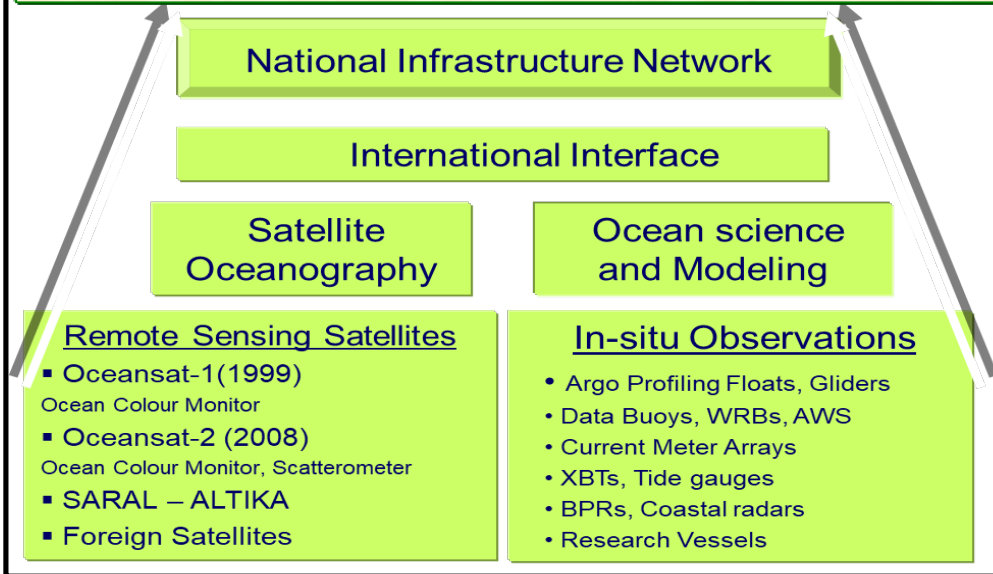
INCOIS Mission: To provide the Ocean Information and Advisory Services to Society, Industry, Government Agencies and Scientific Community through Sustained Ocean Observations and Constant improvements through Systematic and Focussed Research



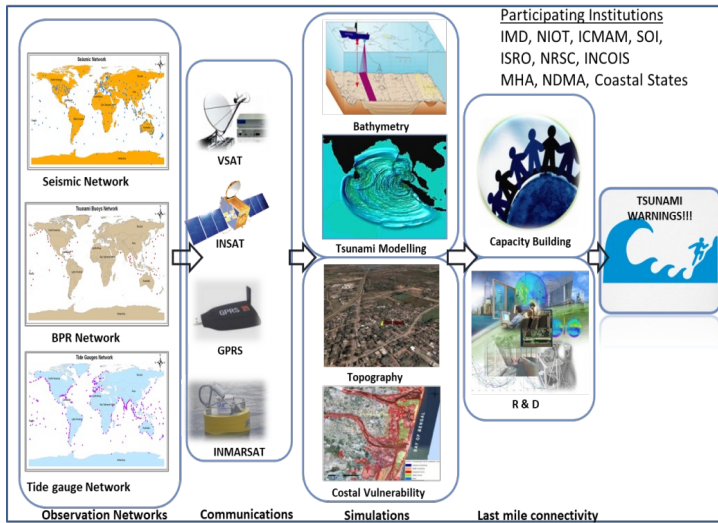
- Ecosystem Related Services (PFZ, Coral Reefs, HABs)
- Ocean State Forecast Services
- Disaster Related Services (TEWS, SS, HWA, SAR)
- Coastal Geospatial Services (CVI, MHVM, 3D GIS)
- Data related Services (IB & WBS, Ocean Portal)
- Contributions to Weather & Climate
- Capacity Building (ITCO Ocean)



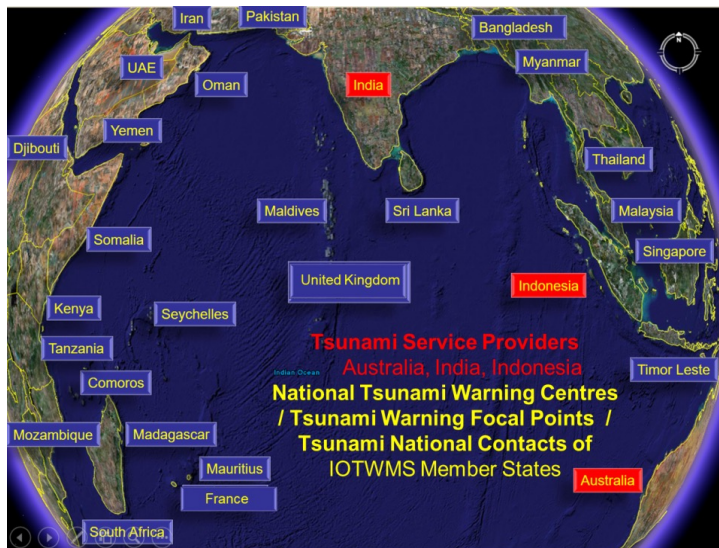
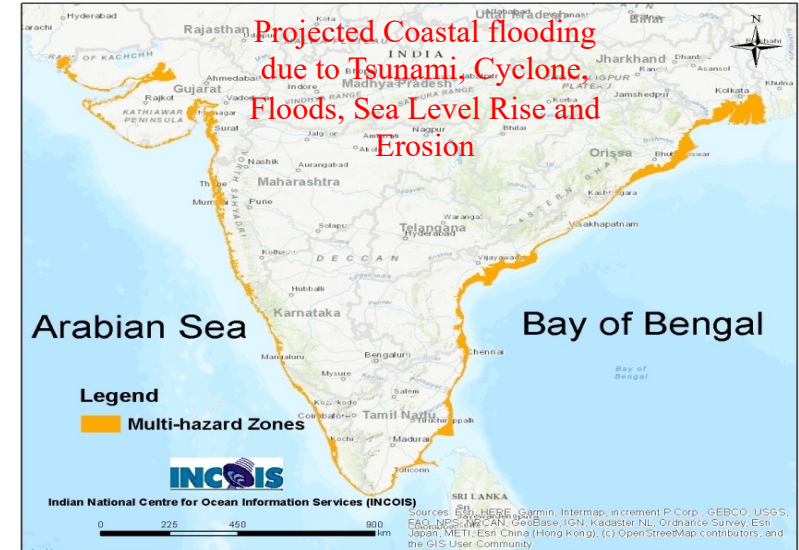
- Fishing Community
- Coastal States
- IMD, Navy, NHO, Coast Guards
- Ports and Harbours
- Off-shore and Shipping
- Research Institutions
- Academia



Tsunami & Coastal Multi-hazard Early Warning Services



Indian Tsunami Early Warning Centre



Tsunami Early Warning Services

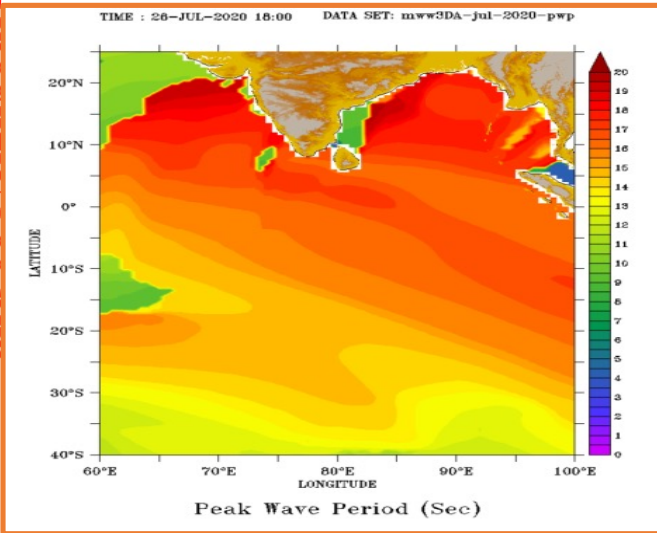
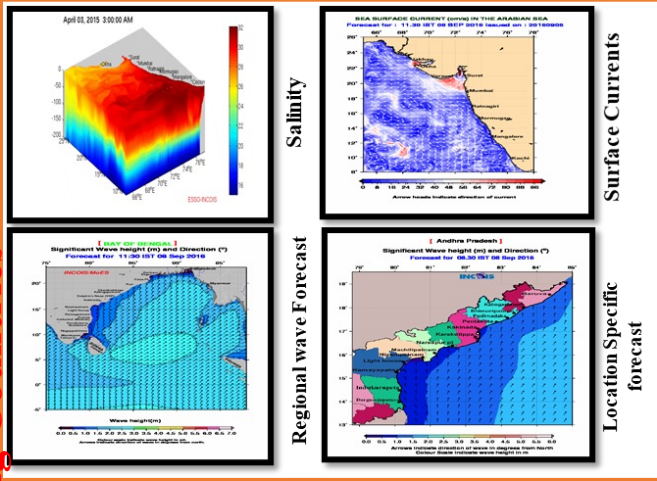


Coastal Inundation – 3D Mapping

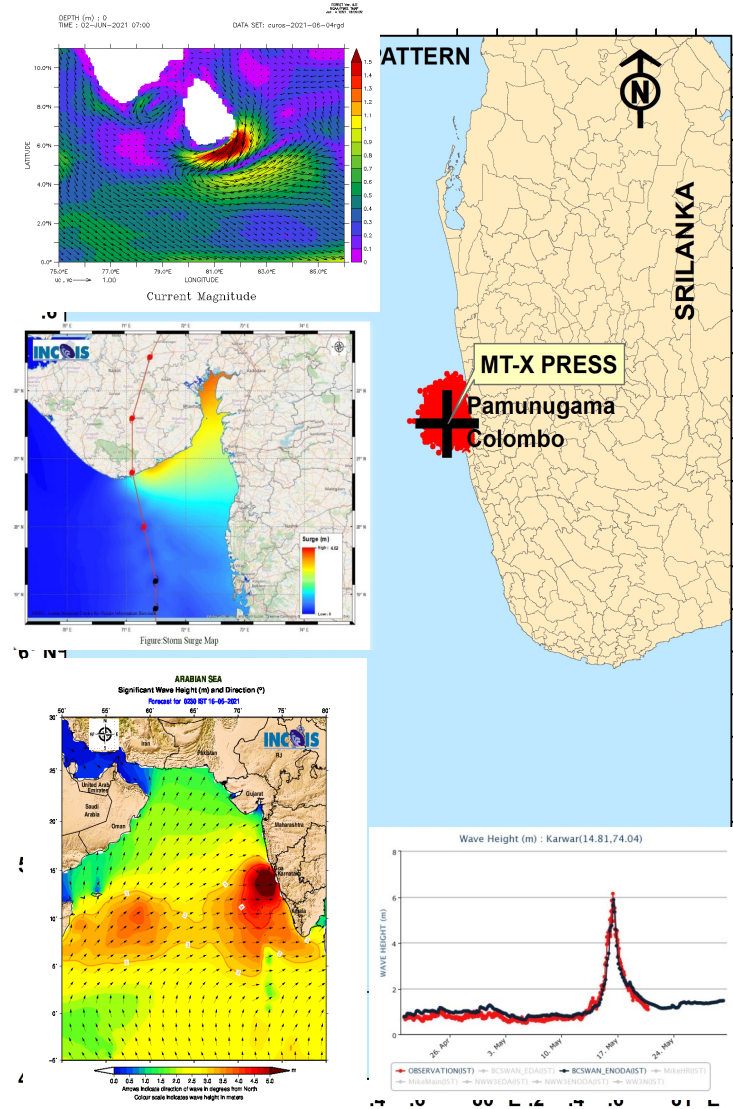
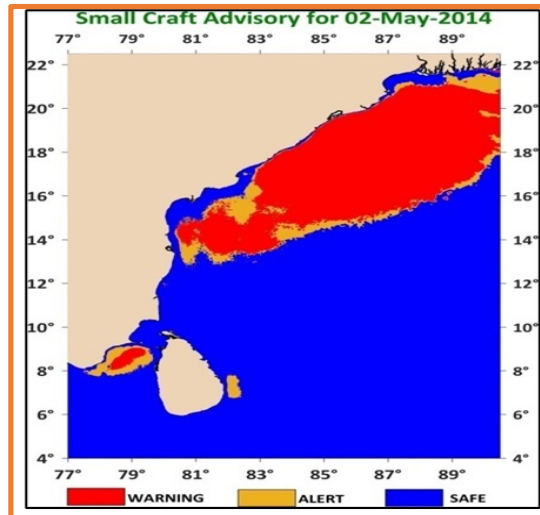
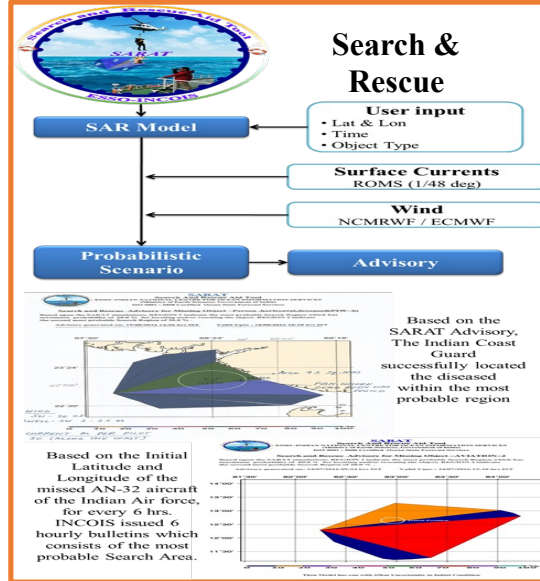
Marine Safety Services



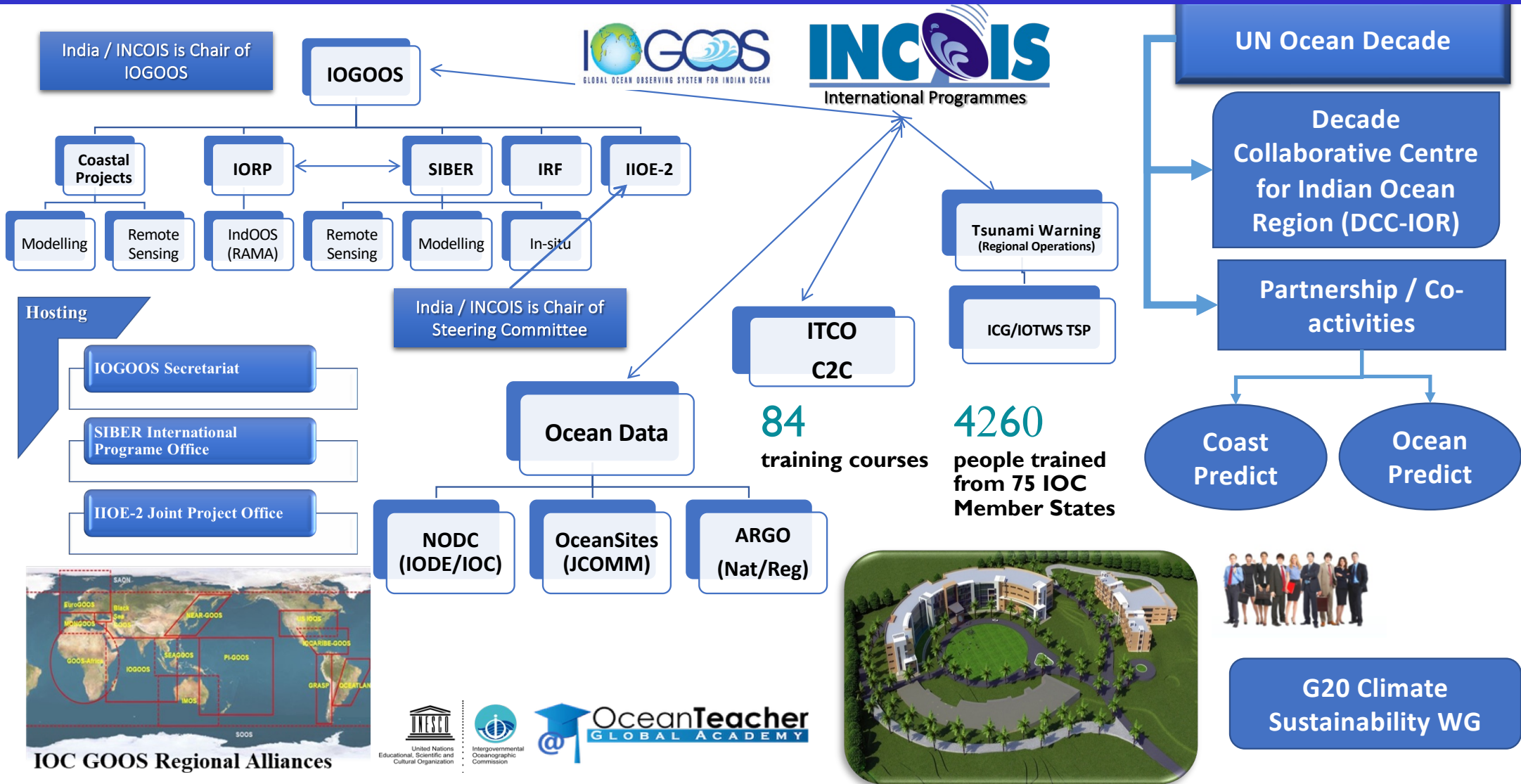
Ocean State Forecasts
45 User specified daily forecast products for India
and 06 Neighbouring Countries



Swell Surge Forecast



International Collaborations of INCOIS



INCOIS On-Campus Conferencing / Training Facilities

- 300 Capacity Open Plenary Hall
- 172-Seater Auditorium
- 72-Seater e-classroom
- 48-Seater e-classroom
- 30-Seater Board Room
- 15-Seater Conference Rooms (x 4)
- Classrooms, Computer Labs
- Physical / Online / Hybrid capabilities



INCOIS On-Campus Accommodation

➤ **Hostel block - 3000 Sq M**

- 11 Faculty Suites
- 24 Student Rooms
- Dining, Recreation area
- Gym

➤ **Guest House Block**

- 7 Suite rooms
- 27 Single Rooms
- 3 married accommodations
- Multipurpose Hall



Some Major Events By INCOIS

- OSICON 2023 <https://osicon23.incois.gov.in>
- IIOSC-2022 virtual <https://iiosc2020.incois.gov.in/>
- ICG/IOTWMS-II 2005 and ICG/IOTWMS-VI 2009
- ICG/IOTWMS Integrated WG/TT Meetings
- Tsunami Mock Drills (National and IOWave)
- Tsunami SOP Regional Trainings
- Field Visits to Tsunami Ready villages
- ITCO International Trainings
- PORSEC 2012 Kochi
- IOC/IOCINDIO Meetings
- POGO Meeting
- ISPRS Working Groups
- User Interaction Meetings
- Open days
- Physical/Online/Hybrid
- On-campus / Hotel

The image shows a screenshot of the IIOSC-2022 website. The browser address bar displays 'iiosc2020.incois.gov.in/iiosc2020/index.jsp'. The website header includes the INCOIS logo and navigation links: HOME, SESSIONS, COMMITTEES, DOCUMENTS, WORKSHOPS, REGISTRATION, OTHER INFO, and CONTACT. A dropdown menu under 'SESSIONS' lists: PROGRAM SCHEDULE, TECHNICAL SESSIONS, CALL FOR ABSTRACTS, EDIT ABSTRACT, and VIEW ABSTRACT. The main banner features a blue ocean background with the text 'IIOSC-2022 IS NOW HOSTED VIRTUALLY' and 'International India Science Conference 14-18 March, 2022 Virtual'. Below the banner, a message board section contains text about the Second International Indian Ocean Expedition (IIOE-2) and a 'Login Virtual Platform of IIOSC-2022' link. The bottom of the image is a collage of four photographs: a map of the Indian Ocean, a large indoor meeting with a red patterned carpet, a group of people in a room, and a meeting around a long table with laptops.

Plans for International Tsunami Symposium 2025

- Timing: September – November 2025
- Venue: Hyderabad (and Field Visit)
- Duration: 3 (5 Days)
 - ✓ Day 0: Participants' Arrival at Hyderabad
 - ✓ Day 1 to Day 3 Symposium at Hyderabad
 - Opening
 - Keynote Talks
 - Tsunami Commission Business Meeting
 - Technical Sessions (Plenary & Paralell)
 - Posters
 - Public Session / Pre-conference training session for students ??
 - Local Tour & Visit to INCOIS Facilities
 - ✓ Day 4 Morning leave for Field Trip
 - Day 4 and Day 5 Field Trip (Odisha / Other Options)
 - Day 5 Participants' Departure

- International / National Organising Committees
- Conference Website by INCOIS
 - ✓ Announcement
 - ✓ Abstract Submission
 - ✓ Abstract Reviews by Experts
 - ✓ Communication of Acceptance
 - ✓ Registration
 - ✓ Payment of Conference Fees
 - ✓ Information on Technical Sessions
 - ✓ Information on Accommodation & Local Logistics
 - ✓ Symposium Proceedings
- Symposium at INCOIS Campus (or Hotel)
- Accommodation for participants will be blocked in Hotels at negotiated rates
- On-Campus Accommodation for Students
- Local Transport from Hotel to Venue by INCOIS
- Local Tours & Conference Dinner by INCOIS



Thank you for your attention
queries: srinivas@incois.gov.in