



United Nations
Educational, Scientific and
Cultural Organization



Intergovernmental
Oceanographic
Commission

TTTWO Agenda 4

Products for Maritime Community

Pattabhi Rama Rao Eluri (presenter) pattabhi@incois.gov.in

Dr. Yuelong Miao yuelong.miao@bom.gov.au

TOWS-WG Task Team Tsunami Watch
Operations

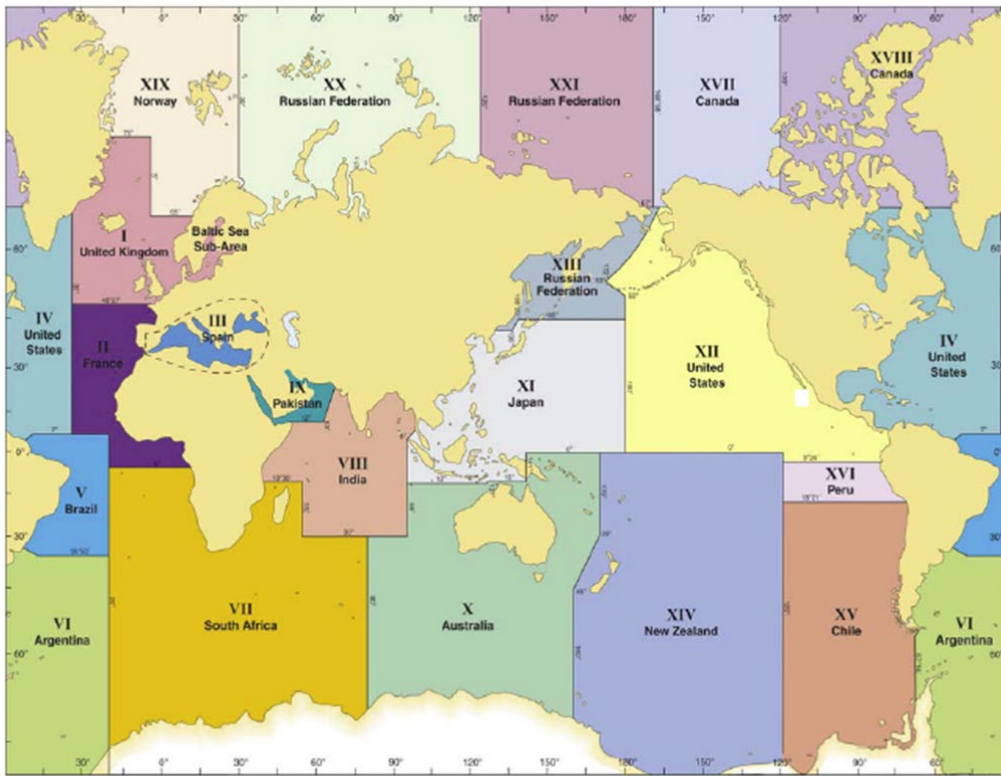
22-23 Feb 2022

Maritime Community TSP Products

- Known as TSP NAVAREA Bulletins
- Help NAVAREA coordinators
 - It removed their need to interpret standard TSP products before developing the NAVWARNINGS in a tsunami event.
 - This specially crafted TSP product conforms to the NAVWARNING standards, with format agreed by the WWNWS-SC.
- Requirements and specs
 - Listed in the 2019 TOWS-WG Task Team Tsunami Watch Operations proposal [here](#)
 - The [12th ICG/IOTWMS](#) 9-12 Mar 2019 recommended for TSPs in IOTWMS to implement
 - The [30th IOC Assembly](#) 26 Jun- 4 Jul 2019 approved the ICG recommendations
 - The action to implement was adopted in the WG2 workplan at the [ICG/IOTWMS Integrated Meetings](#), 29 Sep – 2 Oct 2019

NAVAREA codes

IOTWMS covers 5 NAVAREAs of VII, VIII, IX, X, XI



COUNTRY	NAVAREA	Indian Ocean Area
AUSTRALIA	X	East
BANGLADESH	VIII	North
COMOROS	VII	West
DJIBOUTI	IX	Northwest
FRANCE (Indian Ocean Territories)	VIII	West
INDIA	VIII	Northwest
INDONESIA	XI	North
IRAN	IX	Northwest
KENYA	VII	West
MADAGASCAR	VII	West
MALAYSIA	XI	North
MALDIVES	VIII	West
MAURITUS	VIII	West
MOZAMBIQUE	VII	West
MYANMAR	VIII	North
OMAN	IX	Northwest
PAKISTAN	IX	Northwest
SEYCHELLES	VIII	West
SINGAPORE	XI	North
SOMALIA	VIII	West
SOUTH AFRICA	VII	West
SRI LANKA	VIII	North
TANZANIA	VIII	West
THAILAND	XI	North
TIMOR-LESTE	XI	East
UNITED ARAB EMIRATES	IX	Northwest
UNITED KINGDOM (Indian Ocean Territories)	VIII	West
YEMEN	IX	Northwest

Example – Potential Threat

TSP AUSTRALIA TSUNAMI BULLETIN NUMBER 2 FOR

NAVAREA VIII, NAVAREA X

EAST INDIAN OCEAN, WEST INDIAN OCEAN

TSUNAMI THREAT MESSAGE ISSUED BY TSUNAMI SERVICE PROVIDER AUSTRALIA IN SUPPORT OF THE UNESCO/IOC INDIAN OCEAN TSUNAMI WARNING AND MITIGATION SYSTEM AT 2315 UTC SUNDAY 05 FEBURARY 2017.

A TSUNAMI IS POSSIBLE TO BE GENERATED BY A MAGNITUDE 8.4 EARTHQUAKE THAT OCCURRED NEAR OFF W. COAST OF S. ISLAND, N.Z. [47.67S, 165.90E] AT 2300 UTC 05 FEB 2017.


HAZARDOUS TSUNAMI WAVES ARE FORECAST FOR SOME COASTS OF

AUSTRALIA

FRANCE (INDIAN OCEAN TERRITORIES)

TSUNAMI WAVES ARE NOT A HAZARD TO SHIPS IN DEEP WATER BUT CAN CAUSE STRONG CURRENTS AND RAPID SEA LEVEL CHANGES IN SHALLOW WATER, AS WELL AS INUNDATION OF THE COAST. SHIPS APPROACHING THE COAST SHOULD CONSULT LOCAL AUTHORITIES REGARDING LOCAL CONDITIONS AND ADVICES.

Latest Implementation Status in IOTWMS

- TSP Australia has operationally implemented
 - but products not yet distributed to any NAVAREA Coordinators
 - The Secretariat Office of ICG/IOTWMS
 - to inform interested NAVAREA Coordinators and invite their email subscription to TSP Australia Maritime Products
 - TSP India and TSP Indonesia are also planning
 - to implement such maritime products covering the same Indian Ocean region
 - TSP India is updating the GIS datafile of the IOTWMS to include NAVAREA attributes for each coastal forecast zone (CFZ)
 - This updated shapefile will be shared with all TSPs for implementing the products.
- 

Thank you

