Background & Objectives of the Media Workshop

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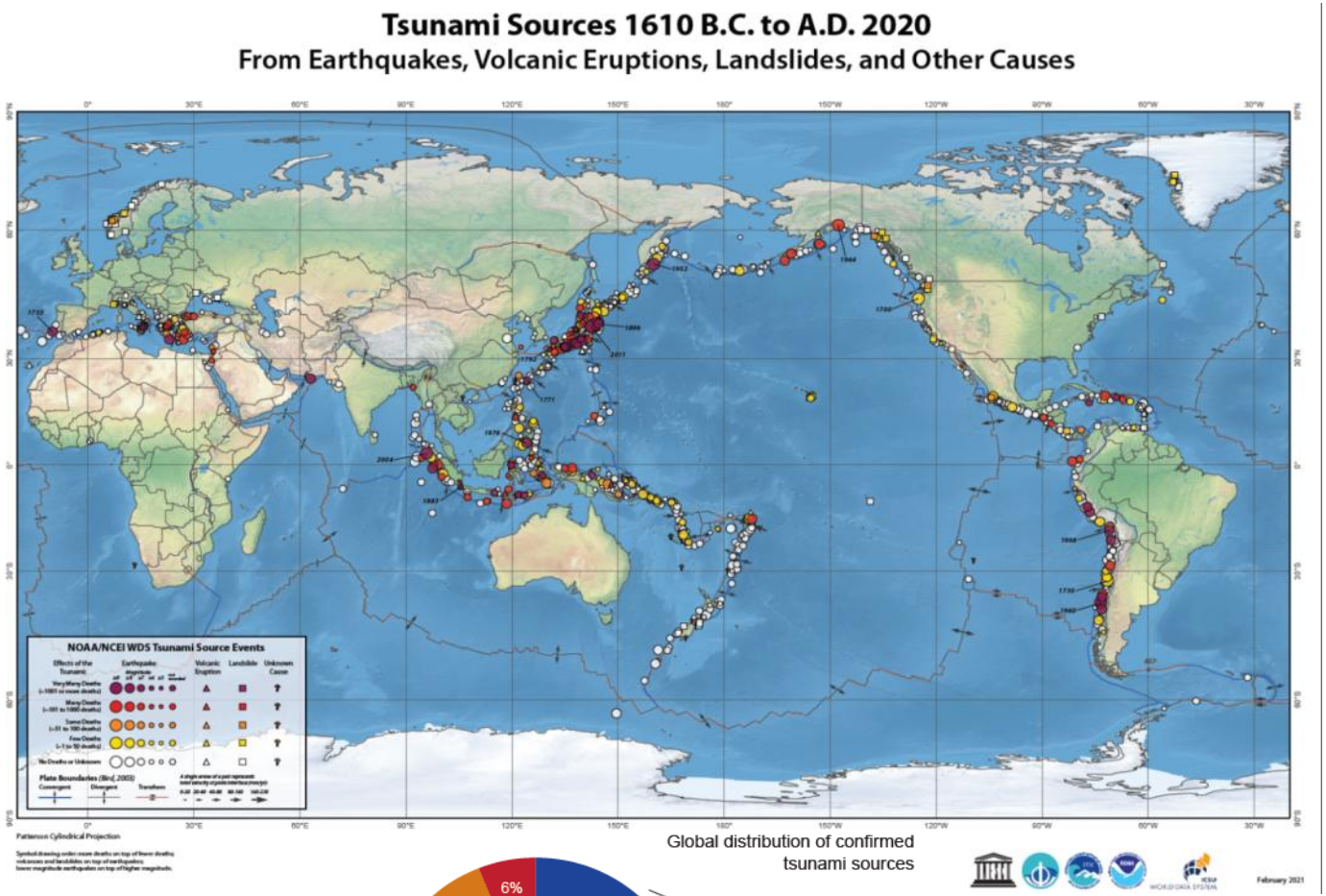
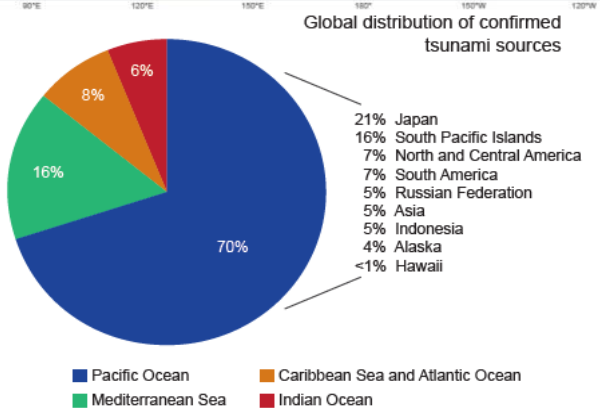
Regional Standard Operating Procedure Workshop
for Broadcasting Media in the Tsunami Warning Chain
INCOIS, Hyderabad
8 September 2021

Past Tsunamis





Source: ITIC

Table 1. Regional and local tsunamis causing 2,000 or more deaths

Year	Date Mon	Day	Source Location	Estimated Dead or Missing
365	7	21	Crete, Greece	5,000
887	8	2	Niigata, Japan	2,000
1341	10	31	Aomori Prefecture, Japan	2,600
1498	9	20	Enshunada Sea, Japan	5,000
1570	2	8	Central Chile	2,000
1605	2	3	Nankaido, Japan	5,000
1611	12	2	Sanriku, Japan	5,000
1674	2	17	Banda Sea, Indonesia	2,244
1687	10	20	Southern Peru	*5,000
1692	6	7	Port Royal, Jamaica	2,000
1703	12	30	Boso Peninsula, Japan	*5,233
1707	10	28	Enshunada Sea, Japan	2,000
1707	10	28	Nankaido, Japan	*5,000
1741	8	29	Hokkaido, Japan	2,000
1746	10	29	Central Peru	4,800
1751	5	20	Northwest Honshu, Japan	2,100
1755	11	1	SW Iberian Margin, Portugal	*50,000
1771	4	24	Ryukyu Islands, Japan	13,486
1792	5	21	Kyushu Island, Japan**	15,000
1854	12	24	Nankaido, Japan	*3,000
1868	8	13	Northern Chile*	25,000
1877	5	10	Northern Chile	2,282
1883	8	27	Krakatau, Indonesia**	34,417
1896	6	15	Sanriku, Japan	*27,122
1899	9	29	Banda Sea, Indonesia	*2,460
1908	12	28	Messina Strait, Italy	2,000
1923	9	1	Sagami Bay, Japan	2,144
1933	3	2	Sanriku, Japan	3,022
1945	11	27	Makran Coast, Pakistan	*4,000
1952	11	4	Kamchatka, Russia	10,000
1960	5	22	Southern Chile	2,000
1976	8	16	Moro Gulf, Philippines	6,800
2004	12	26	Banda Aceh, Indonesia	*^227,899
2011	3	11	Tohoku, Japan	*^18,429
2018	9	28	Sulawesi, Indonesia	*4,340
			Total	**510,378**

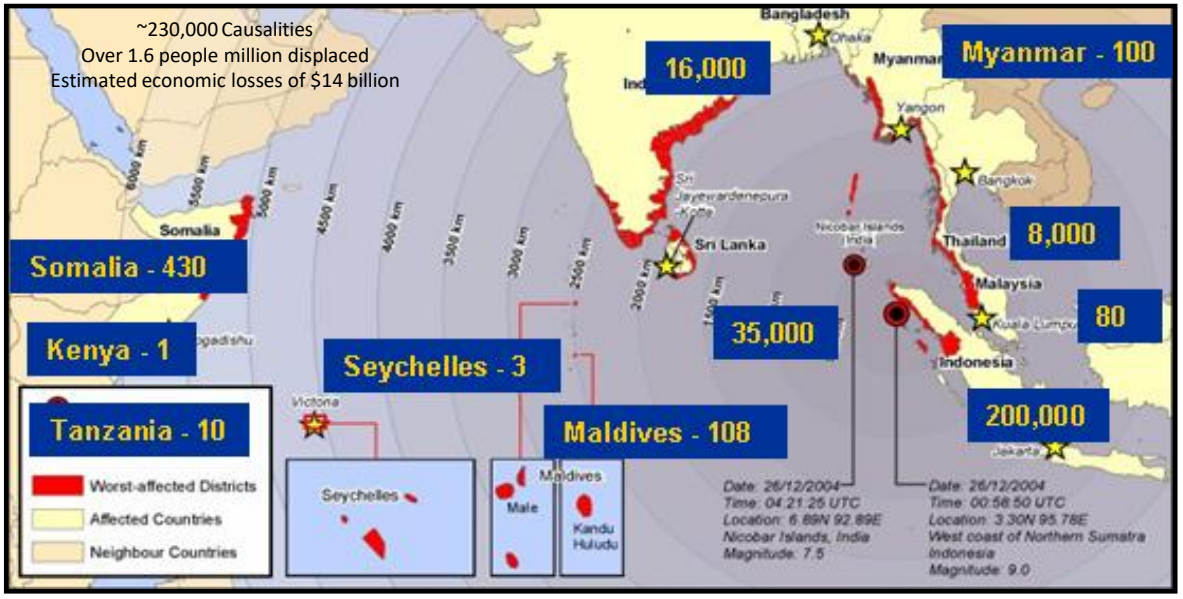
*May include earthquake deaths

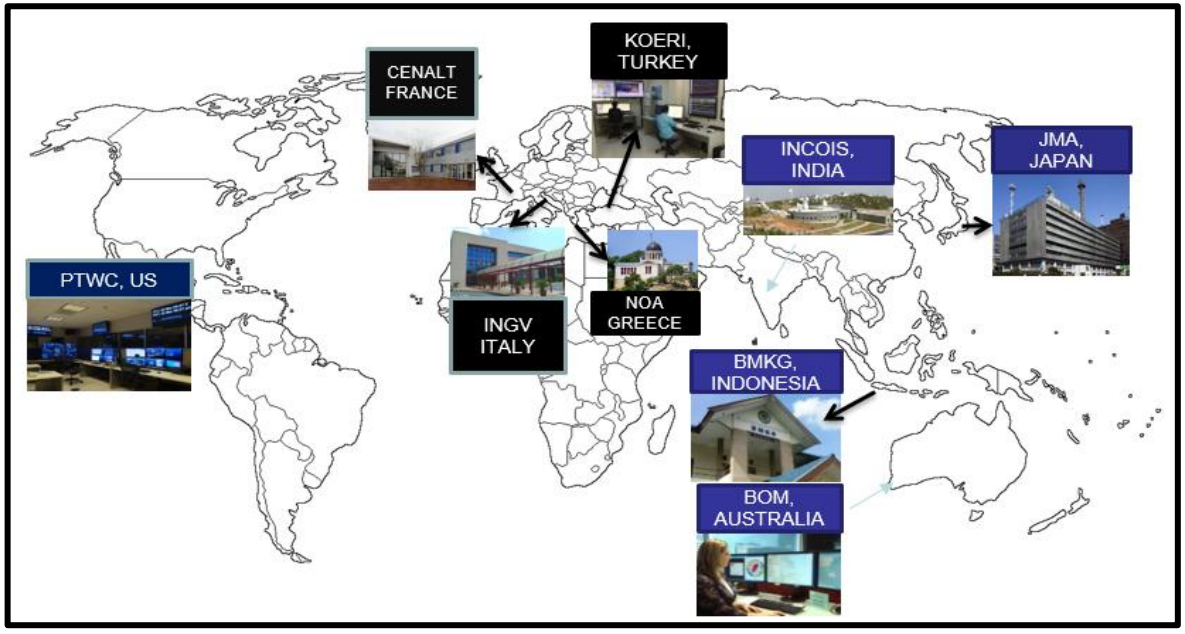
**Tsunami generated by volcanic eruption

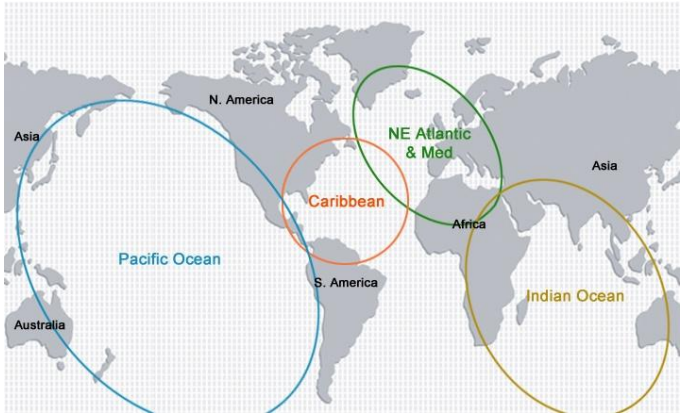
^Includes dead/mising near and outside source region

Regional Tsunami Warning Systems

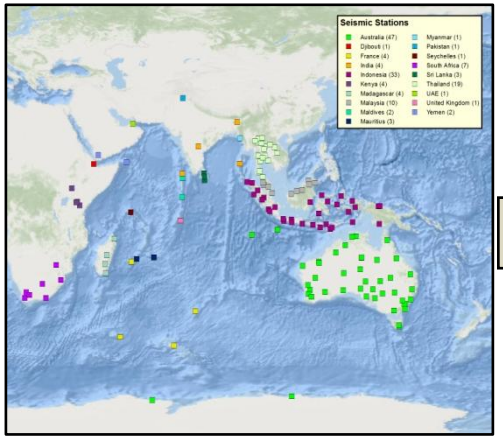
- Pacific since 1965
- 2004 tsunami in Indian Ocean illustrated need for more
- In 2005, the IOC was mandated to establish three more TWS
  - ICG IOTWMS
  - ICG CARIBE EWS
  - ICG NEAMTWS
- 4 Regional TWS operational with 7 New Tsunami Service Providers established since 2004



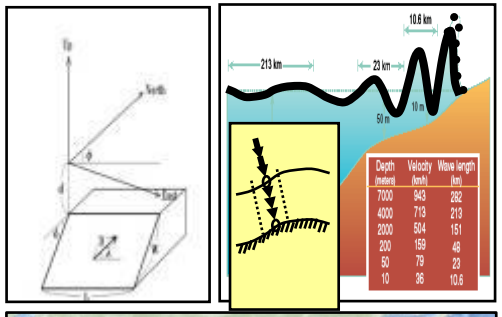




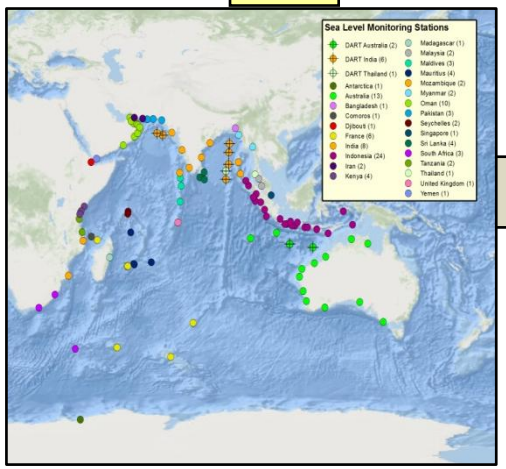
Operational Elements of Tsunami Warning



Seismological Data



Model Results



Sea level Data

TSP-1

TSP-n

Warnings
NDMO
LDMO
Media
Public

Threat Information

NTWC1

Warning Status

Threat Information

NTWC2

Warning Status

Threat Information

NTWCn

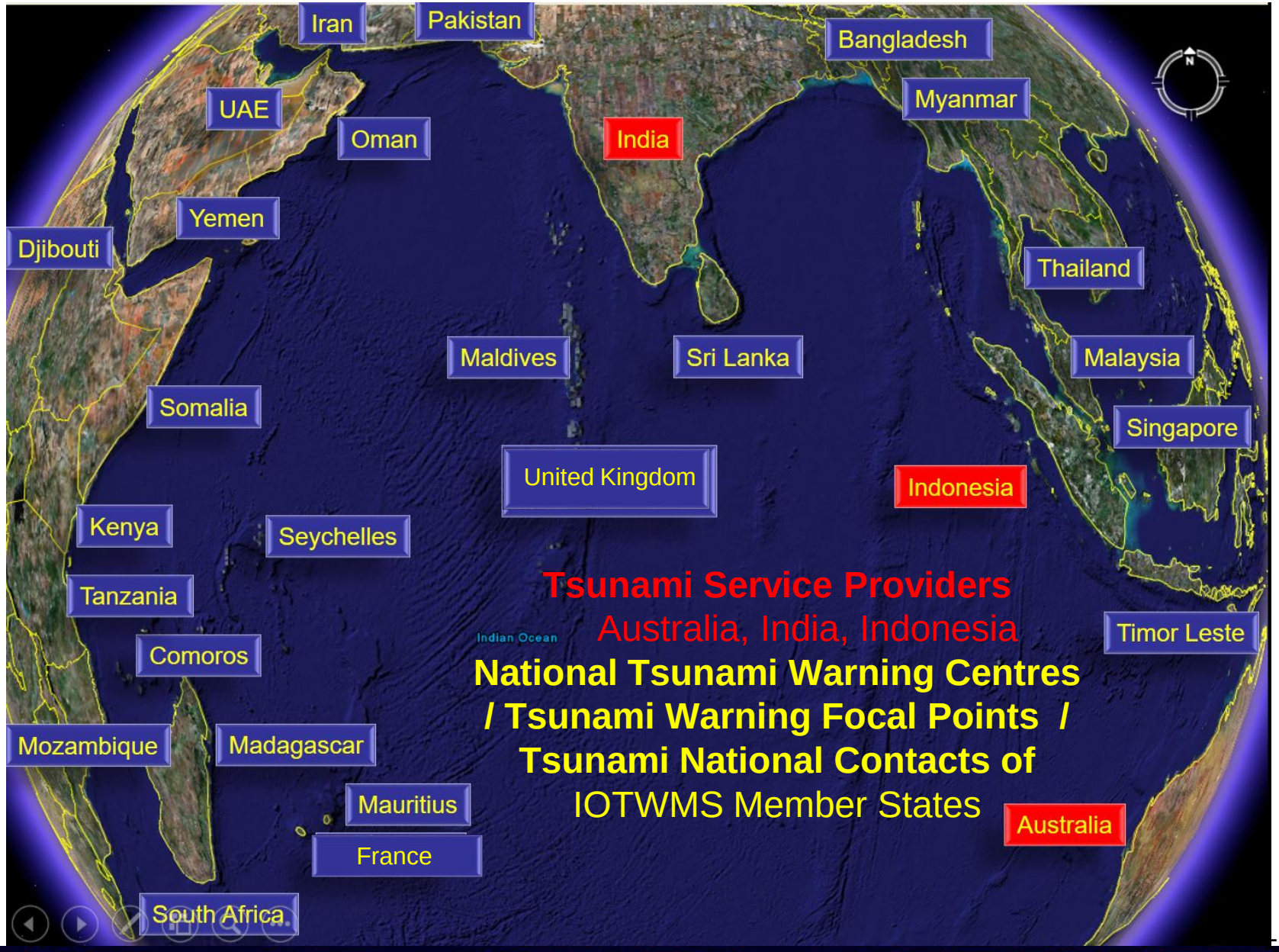
Warning Status

GTS
SMS
FAX
Email
Web

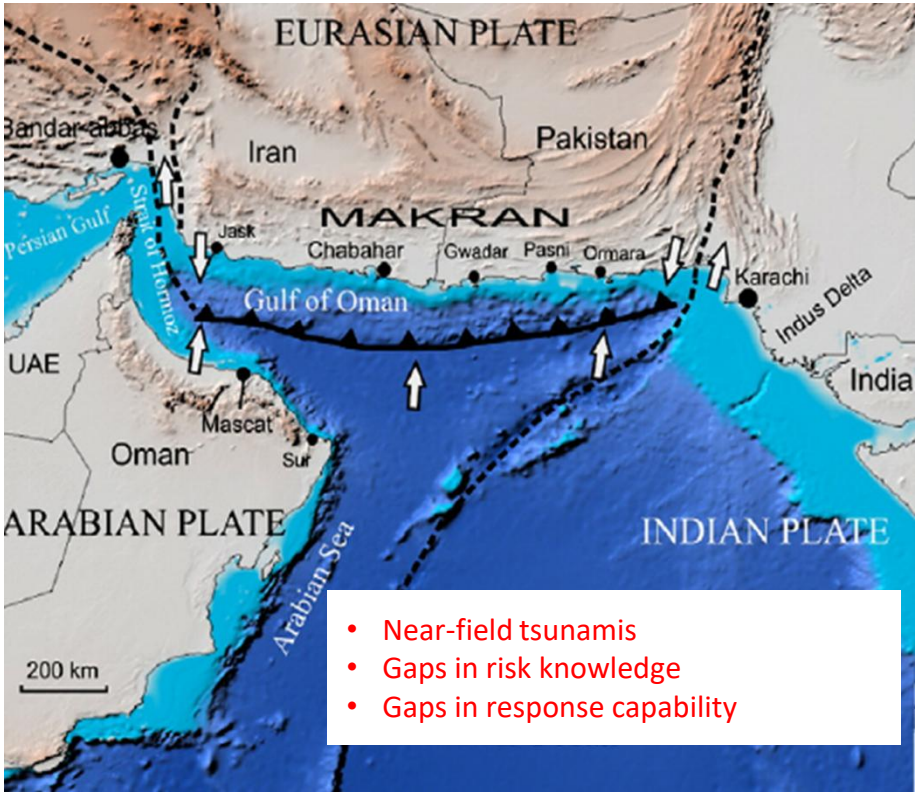
TV
Radio
SMS
Email
Web
SIRENS

IOTWMS KPIs:
EQ Info: 10 Min
Tsunami Threat Info: 20 Min

ICG/IOTWMS Member States



Strengthening Tsunami Warning in NWIO Region



- Status, Gaps, Priorities – Kish Expert Consultation
- ICG/IOTWMS TT MSZ, TT Near Field, WG-NWIO
- Project funded by UNESCAP Tsunami Trust Fund being implemented by IOC (in India, Iran, Pakistan, Oman, UAE)
- Kick-off meetings in Muscat 01 – 06 Sep 2019
- Risk Knowledge - develop unified regional PTHA
  - seismo-tectonic model, tsunami modelling, non-seismic tsunamis
  - promote sharing of seismic data
  - working group/process involving national and international experts supported by regional meetings
- Response Capability - enhance tsunami warning chains
  - strengthen national coordinating mechanisms
  - select pilot communities – Tsunami Ready
  - test enhanced warning chains and SOPs – IOWaves
  - national working process supported by regional SOP workshops involving NTWC, DMO, Media

Objectives of the Workshop

Strengthening the engagement of the media in the tsunami early warning processes in the Makran region though:

- Strengthening relationships between broadcasting Media, NTWCs, and DMOs
- Understanding the national tsunami warning chains and the NTWC and DMO procedures
- Understanding National Tsunami Warning Centre's SOP, products, dissemination
- Identification of challenges and issues to address regarding media engagement in tsunami warning processes
- Clarifications on the role of media in the national tsunami warning chain
- Discussions on the requirements for Media SOPs to facilitate timely and accurate dissemination of advice from the authorities.

Thank you
for
your
attention