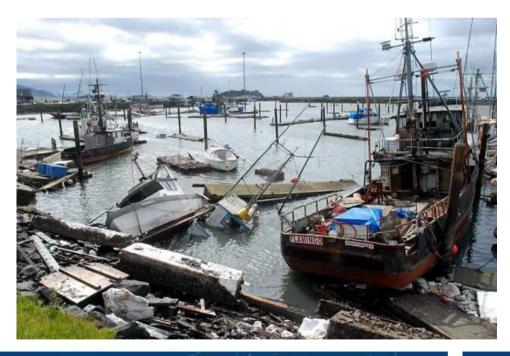


# Marine Disasters Extension of the IHO framework



14th MACHC -14ème CHMAC – Sint Marteen (Netherlands)

December 9<sup>th</sup>-13<sup>th</sup> 2013

#### Background

IHO Resolution 1/2005 'IHO response to disasters' (former K4.5)

→ outlines the appropriate procedures and guidelines to enable an immediate and appropriate response to any future disaster affecting coastal areas of the world.

XVIIIth IHC (April 2012 – Monaco)

→ JPN Proposal to improve the IHO response to disasters.

→ IHB CL 73/2012 & CL 94/2012 => 1/2005 amended accordingly.

#### IRCC04 (June 2012 – Singapore)

→ IRCC4 09/2013: « contribute to improving the framework of IHO response to marine disasters ».



#### **IHO response to disasters framework**

## Actual resolution 1/2005 as amended only focuses on the situation after the occurrence of such severe disasters.



### What about being involved prior those disasters occurs?

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December 9th-13th 2013

#### **Disasters Warning systems**

➔ In order to be efficient, tsunami & inundation warning systems are to be designated at the scale of a bassin, beyond national boundaries.

**Tidal data** are very relevant for improving the efficiency of warning systems (tsunami) and forecasting systems (storm surge).

→ It is of great importance to share those data accross boundaries.



UNESCO encourages coastal States to transmit their near-real time sea level data, made available on the IOC Sea Level Station Monitoring Facility web portal.



#### **HO responsability VS Marine disasters**

Most of Coastal States HOs are at least involved in continuous tidal measurements as for:

- → Tidal prediction activities
- → Hydrographic surveys

## **But...**

Usual requirements differ: HOs current sampling rate = 15min up to 1h Tsunami sampling rate = 1min



#### Mostly considered from a national perspective only.

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Refmar Days (Paris, June 17th-21st 2013)

→ Named after the FR reference tidal observations network managed by SHOM.

Through Refmar, SHOM fulfils various coordination functions so as to promote the use of data in a wide range of applications, such as tsunami and inundation warning systems.

→ First conference bringing data producers and users of water heights together.

➔ Foreign countries participation (Algeria, Morocco, UK, Spain, Portugal, Romania, Tunisia, Guinea, Cote d'Ivoire) + UNESCO representative

➔ Discussions on sea-level changing, warning and risk prevention by submersion systems

=> Real Perspectives of cooperation in the region.



### **Extension of the IHO framework: Proposal**

IRCC5 (Wollogong – June 2013)

- → FR proposal submitted.
- → Encourages coastal States to:



- > collect relevant data in their area of interest,
- > Make data available to improve tsunami warning systems,
- cooperate and support the IOC Tsunami Warning Programme by setting up near-real time transmission from their sea-level and tide gauges network.



#### **Action required to MACHC**

#### → The MACHC is invited to:

- MACHC14-XX: MACHC members to support that proposal of amendement of resolution 1/2005 to include prevention and alert systems.
- MACHC14-XXX: to support IOC in developping access to Real Time sea level data level information required by alert systems.

