

ITU Green standards week

Innovating today for a sustainable tomorrow

Oceans in the UN and international arena The role of WMO Edgard Cabrera



Marine Meteorology and

Oceanography Programme **Operational Ocean IMO** and **IHO Forecasting System Observations** (GDPFS for Ocean) (e.g., Waves, Storm Surges, Sea Ice, SST, ocean circ., etc.) space Services MPERSS, Users **ICS** situ and **MSI/GMDSS** Intertanko **Ocean Climate** Intercargo (e.g., Waves, Storm Surges, In Oil and Gas Industry Sea Ice, SST, etc.) **Fisheries** e.g., IOC (IOC/WMO/UNEP GOOS) Etc.

WMO and Ocean Affairs

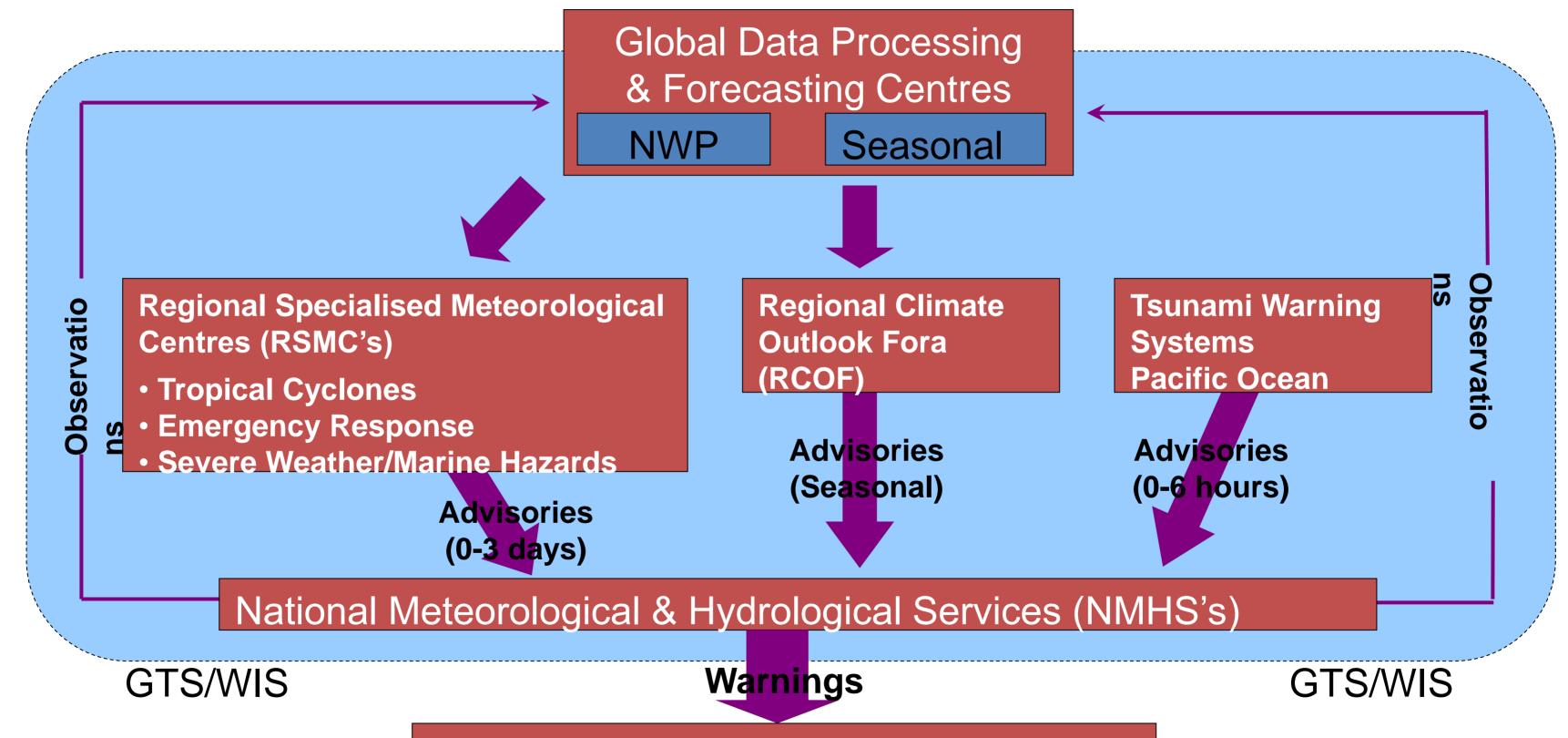
Marine Meteorological and Oceanographic Services

- Operational oceanography now a reality
- Community welfare, socio-economic impacts, hazard mitigation, climate change, marine environment, GFCS....

• National and international cooperation essential (IOC, WMO, met and ocean

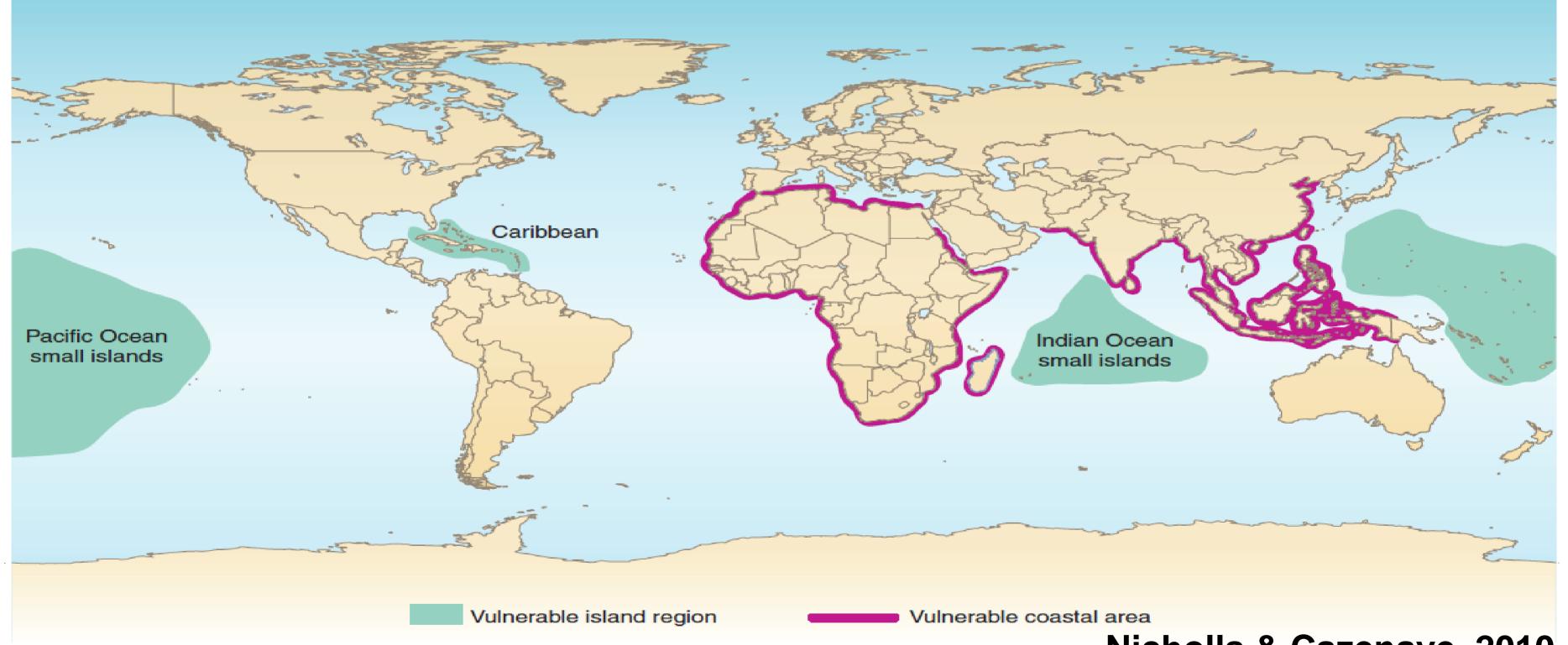


WMO Warning System

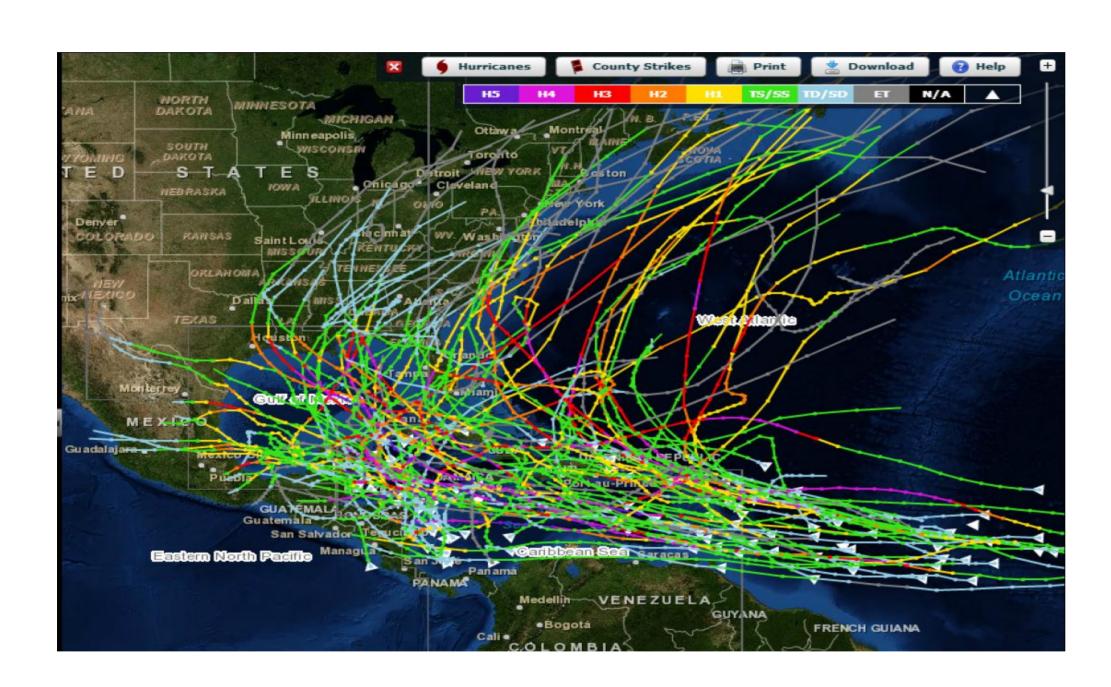


User Community
Public, Government, Civil Protection

Regions vulnerable to coastal flooding



Hurricanes



NOAA 2013

Tracks of tropical cyclones that have affected the Caribbean region from 1990 to 2011 and their intensities:

H5-H3: major hurricane

H2-H1: hurricane

TS: tropical storm

TD: tropical depression

ET: extra-tropical storm

N/A: unknown type

WMO: Marine Meteorology and Ocean Affairs Division

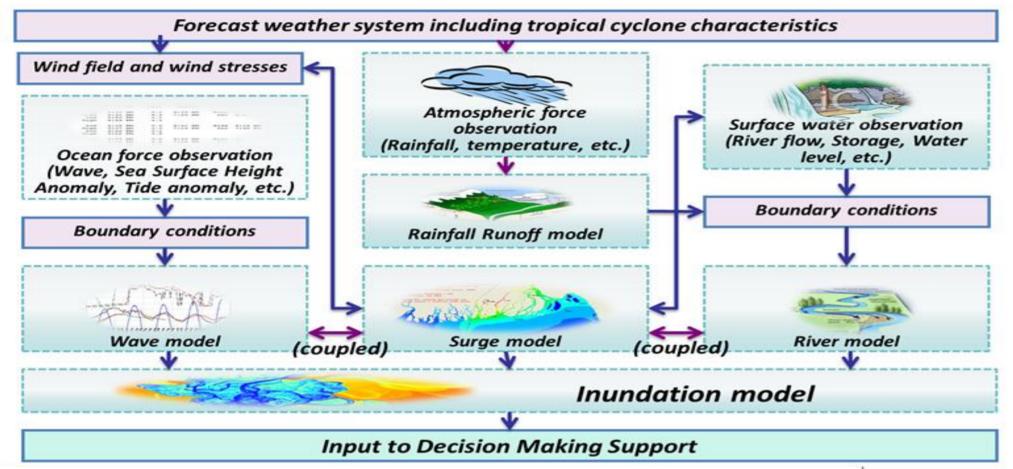
Flooding



- Flooding the most reported extreme event during 2001-2010
- For many Caribbean countries, flooding the most common natural hazard affecting socioeconomic development
- WMO Flood Forecasting Initiative

WMO: Marine Meteorology and Ocean Affairs Division

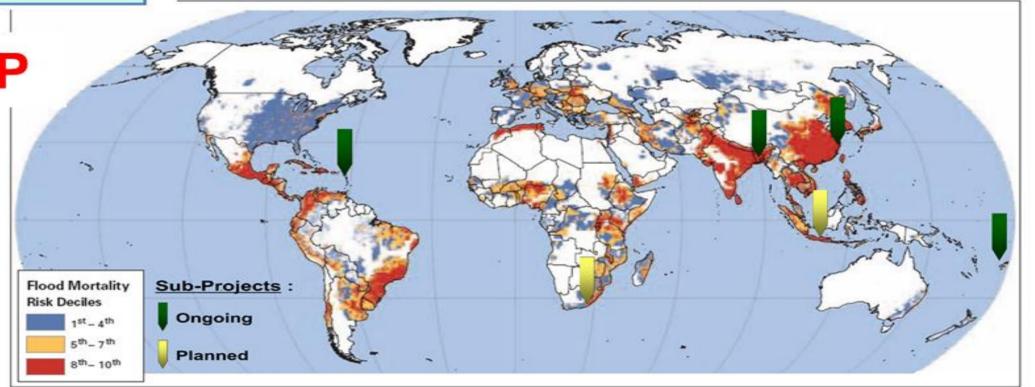
Coastal Inundation Forecasting Demonstration Project (CIFDP)



- To demonstrate how integrated coastal inundation forecasting and warnings can be improved and effectively coordinated by NMHSs
- National capacities development through implementation of National Sub-Projects

http://www.jcomm.info/CIFDP

 Linkages with related programmes / projects (SSWS, SWFDP, eSurge, WG-SERA...)



Thank you





