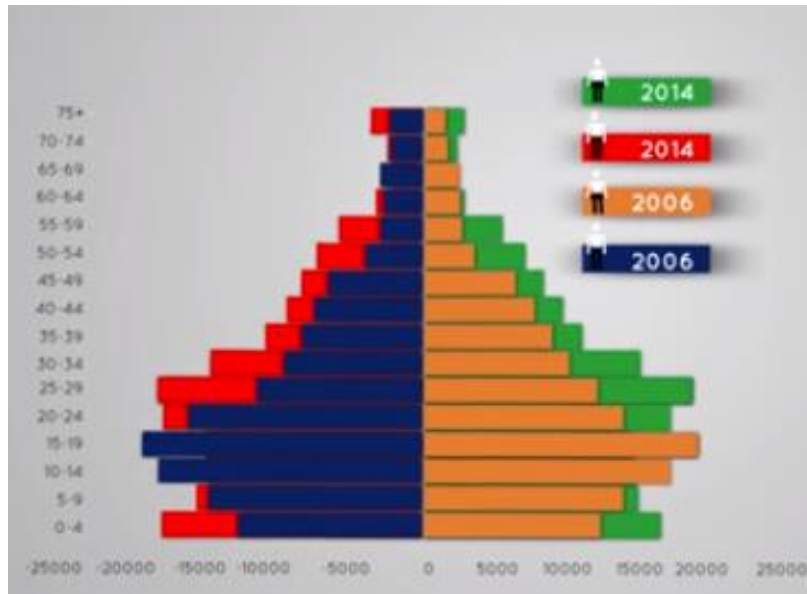
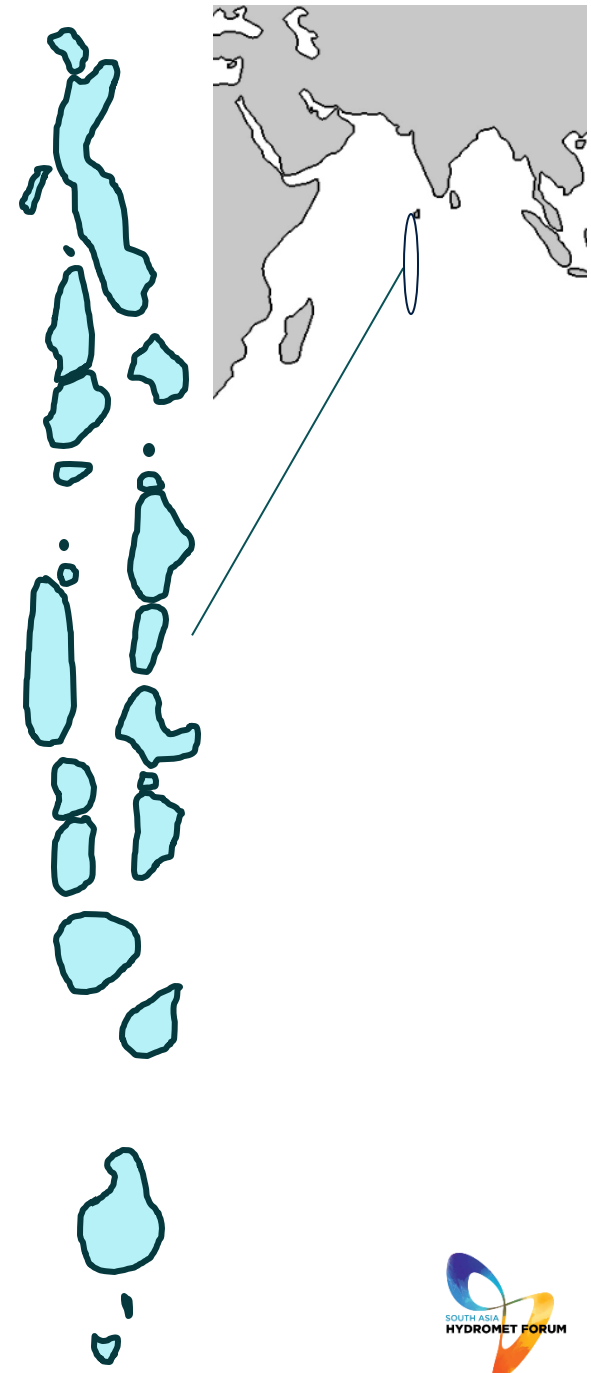


Maldives

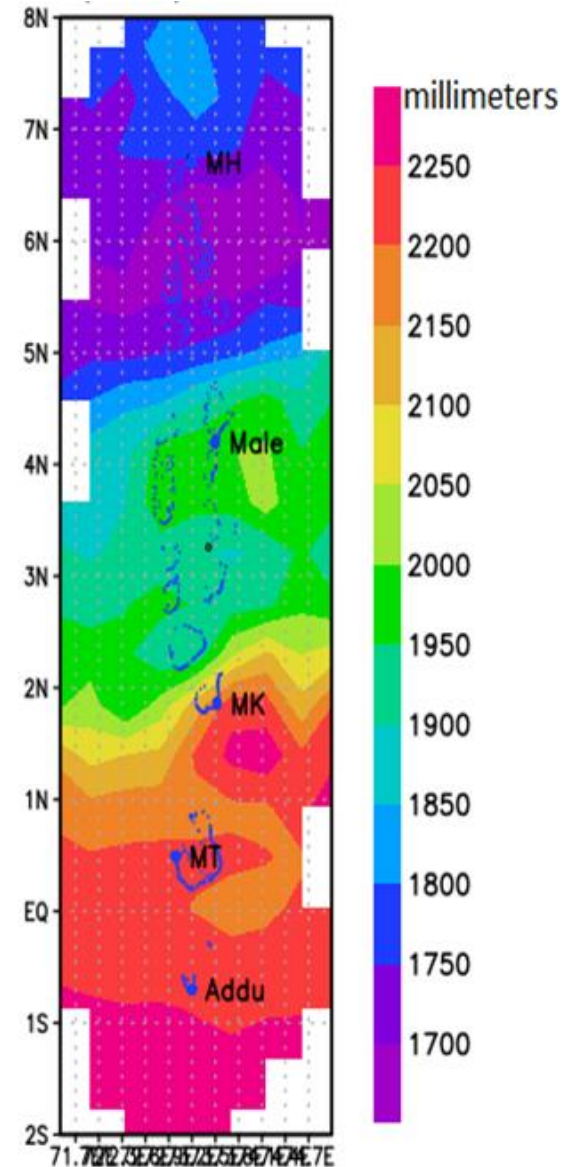
- Maldives consists of about 1,192 small, low-lying coral islands.
- The population of the Maldives, according to the 2014 census is 338,434.



National Bureau of Statistics

Maldives Climate

- The southwest monsoon (wet-season) normally extends from mid-May to November.
- The northeast monsoon (dry-season) extends from January to March.
- The month of December and April are considered as the monsoon transitional periods.

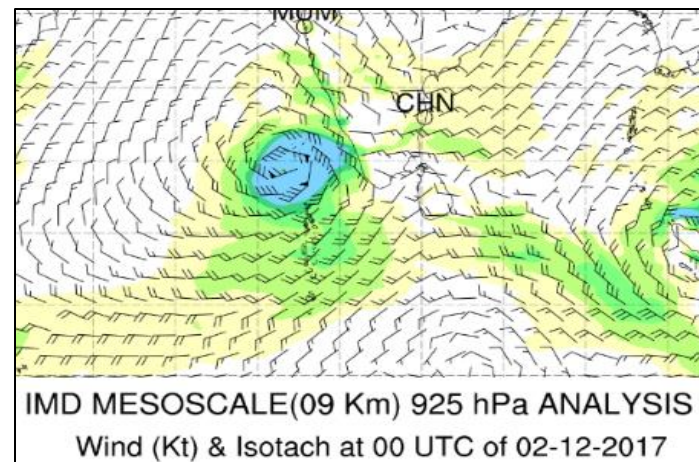
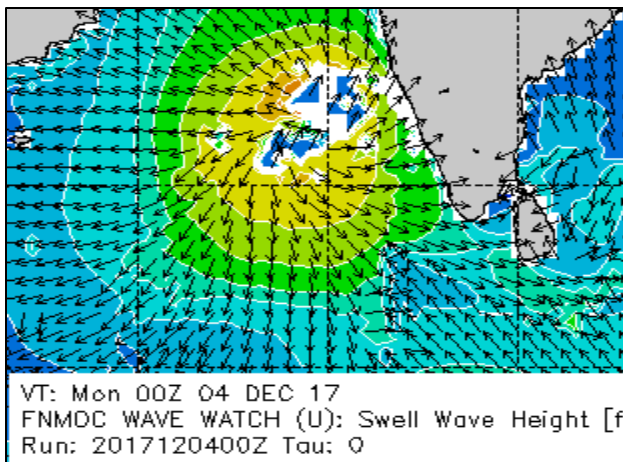
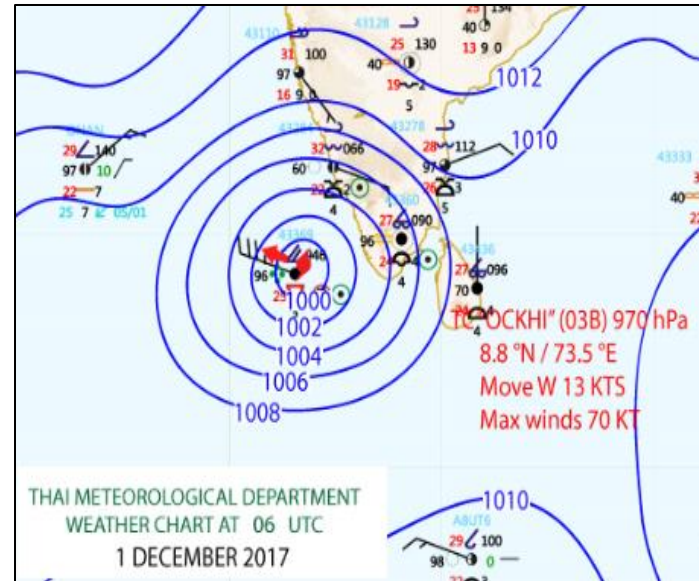
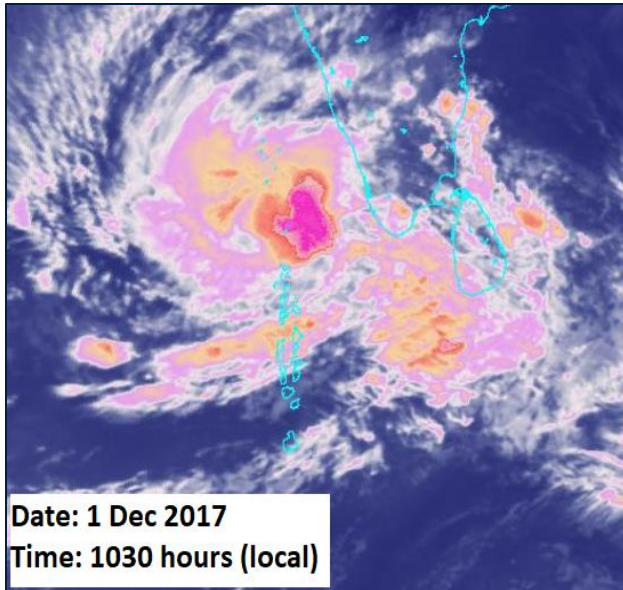




Meteorological and hydrological Hazards in Maldives

- Tropical Cyclones
- Heavy rain
- Flood
- Thunderstorms
- Gust Winds
- Tidal Waves
- Swell Waves
- Funnel Cloud (Water Spout and Tornado)

Tropical cyclone "Ockhi"



Impacts of Tropical Cyclone Ockhi



Dhaal. Meedhoo (1st Dec 2017)



Noonu.Manadhoo (1st Dec 2017)



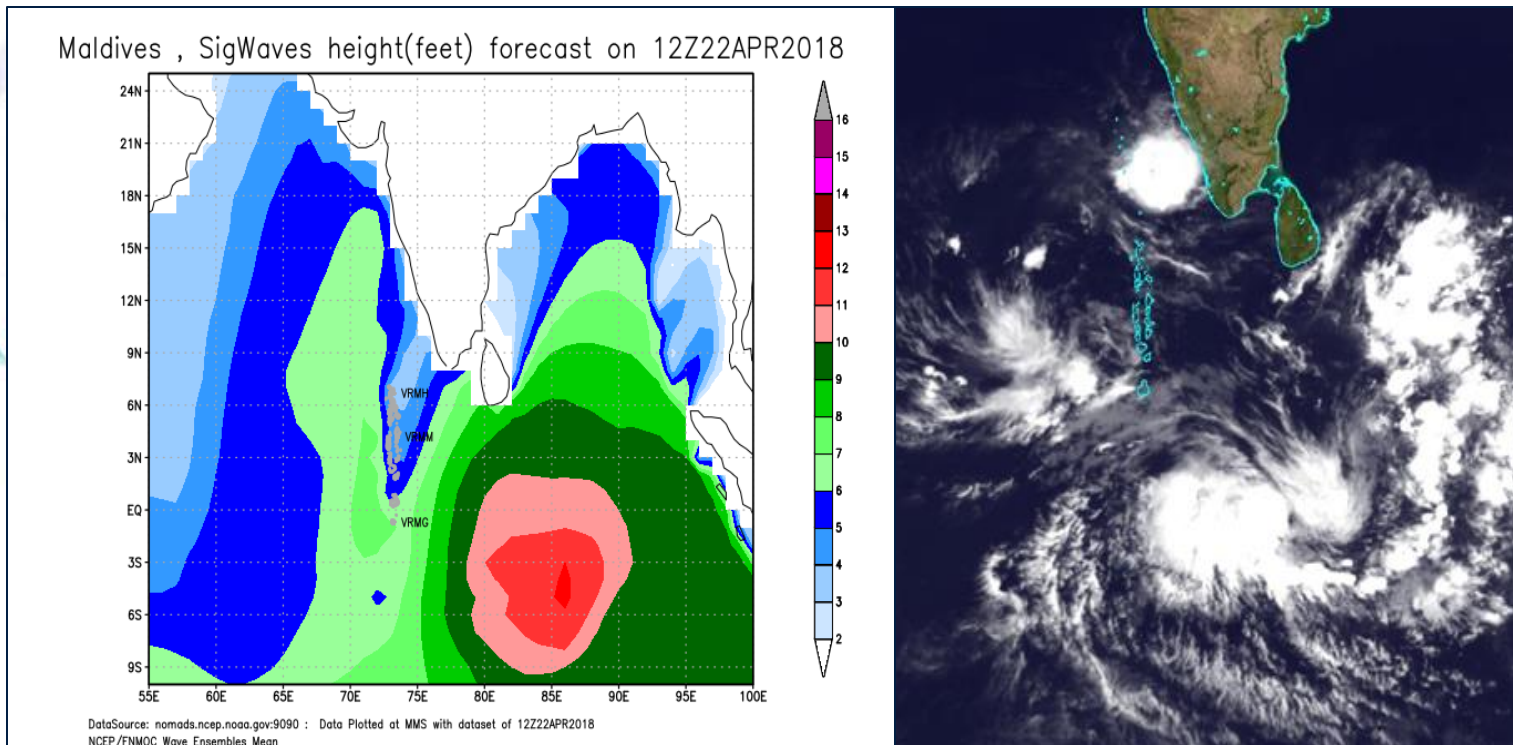
Noonu.Manadhoo (1st Dec 2017)



Noonu Holhudhoo (1st Dec 2017)

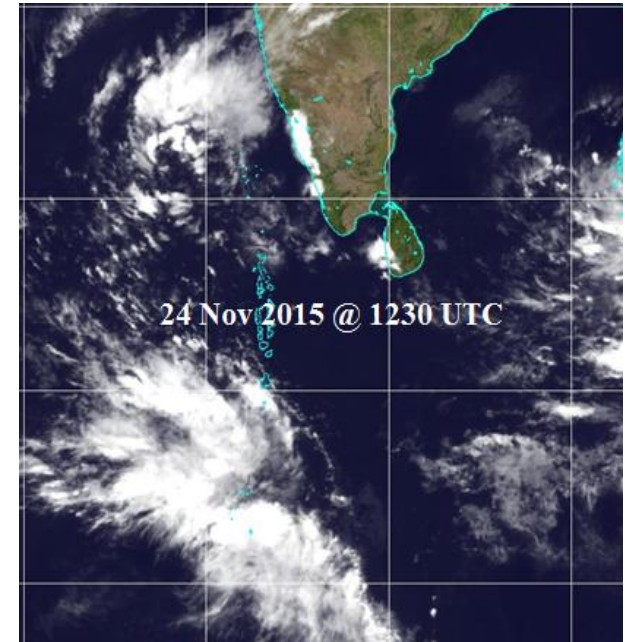
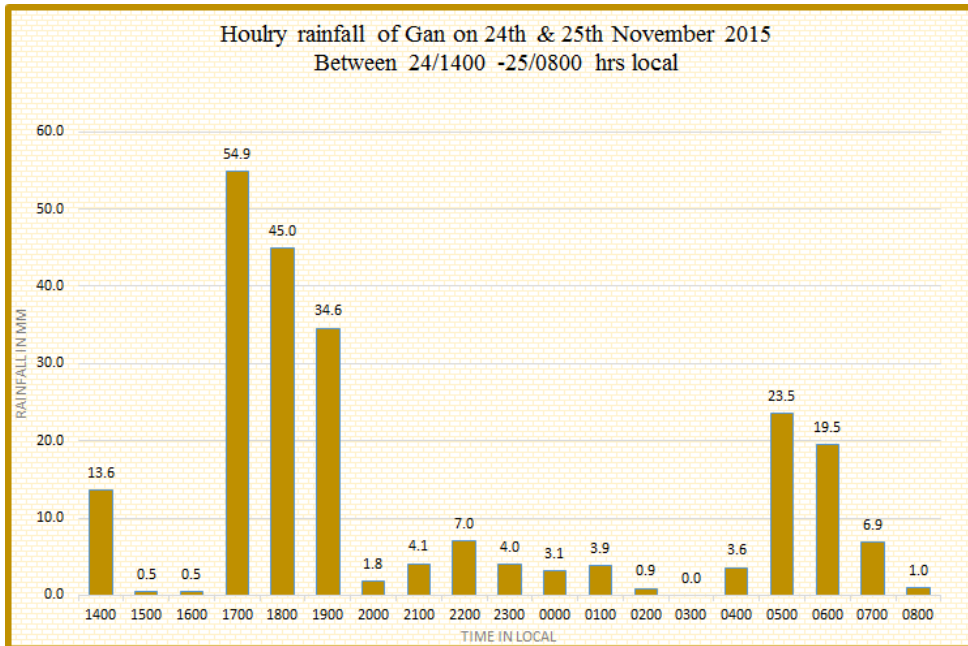
Recent Swell Surge event

On 28th of April, Tropical Cyclone, “Flamboyant” situated about 2200 km south-east of Addu atoll. The high swell waves associated prior to this system caused sea surges across the country, particularly in southern atolls of Maldives on 21st and 22nd of April.



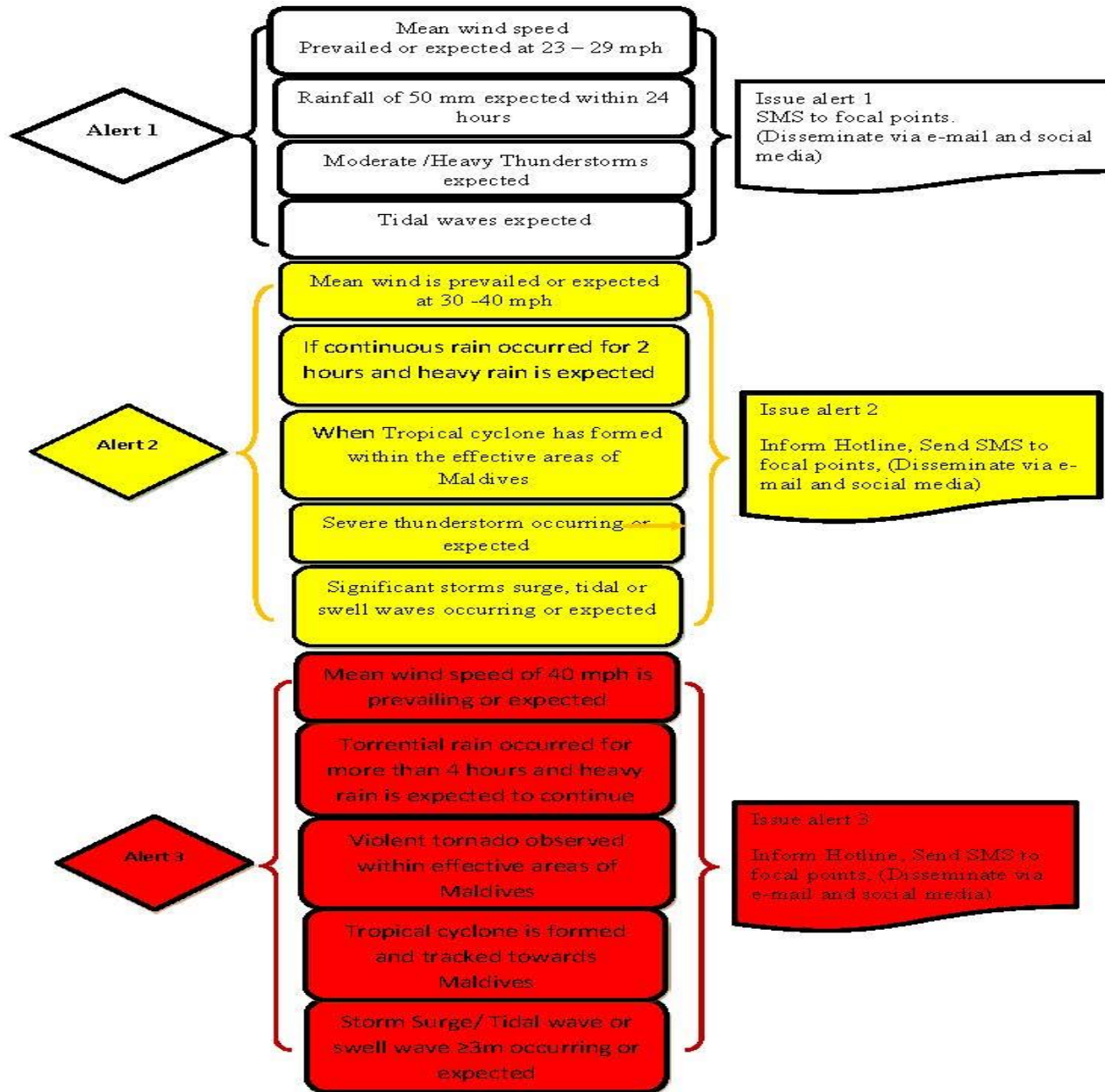
22nd April 2018, Time: 0830 hours

Recent flood event

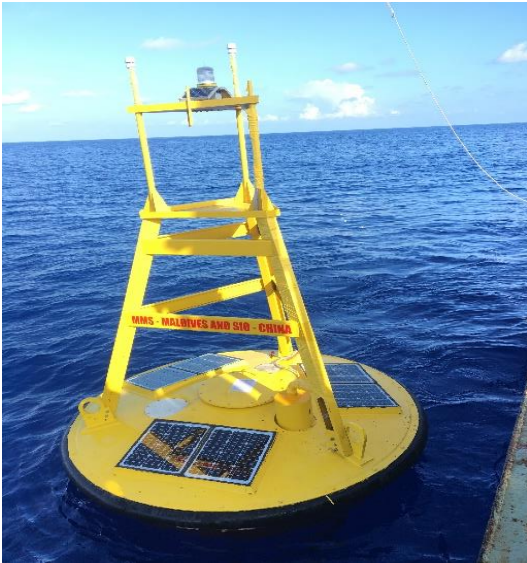


Heavy downpour of 228 millimeter was recorded at the Meteorological Office, Gan on 24th November 2015. This is the highest record of rainfall with in 24 hours period.

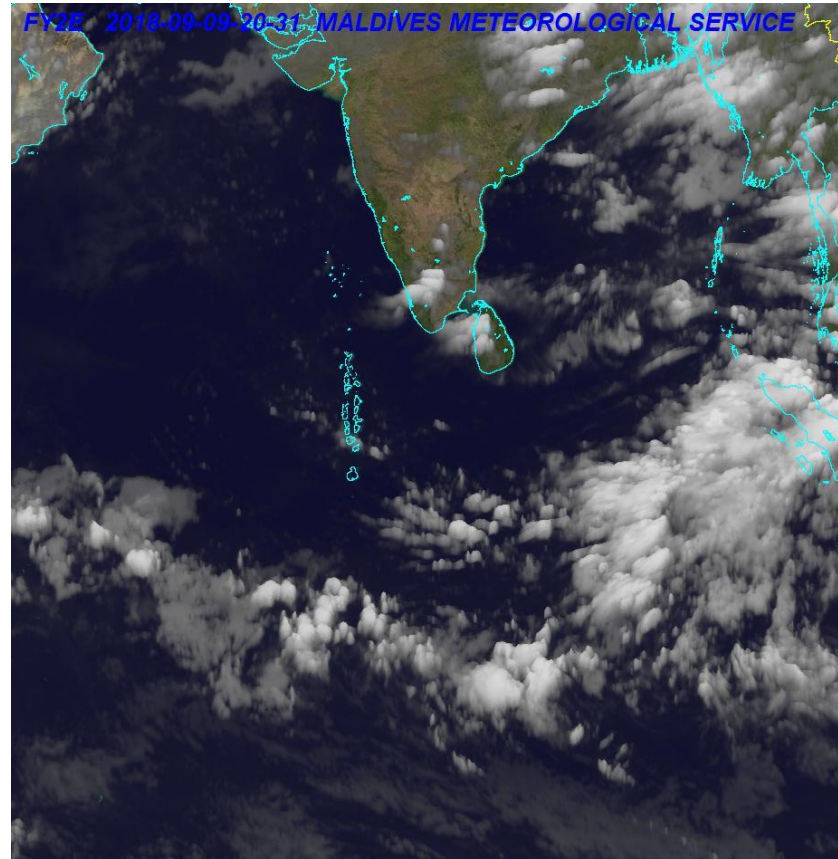
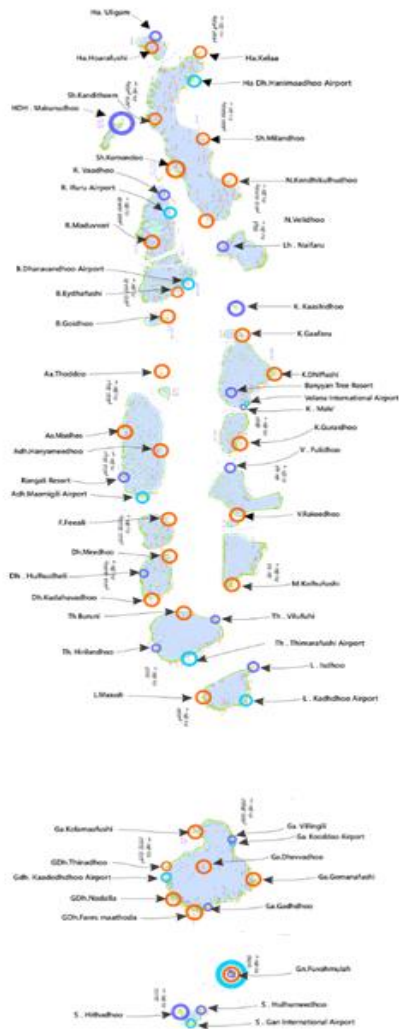
Weather advisories and warnings flow chart



Data analysis and Forecasting Capacity

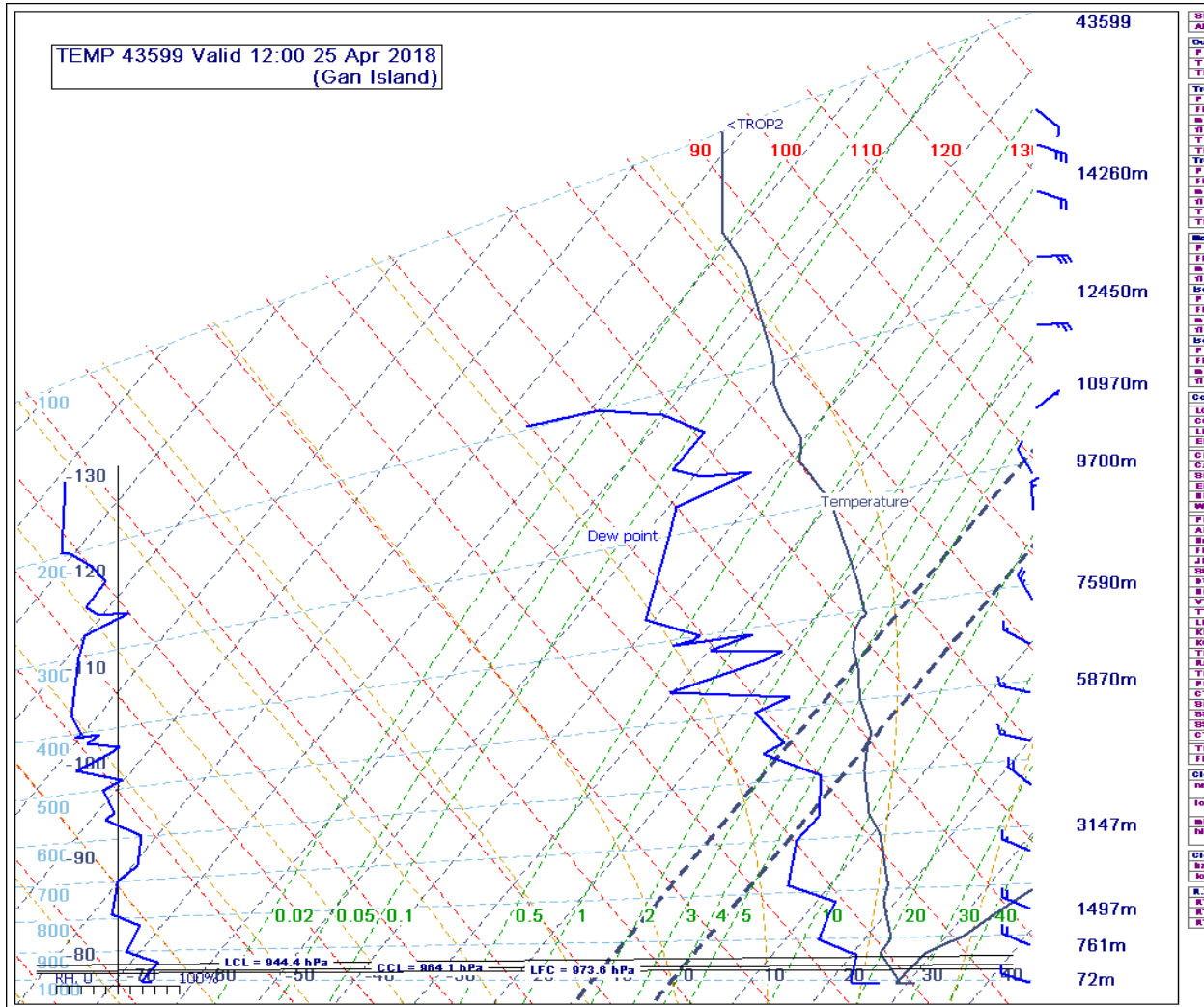


Data analysis and Forecasting Capacity



-  Italy project approved AWS
-  AWIS (Airport Weather information System)
-  Existing AWS locations

Data analysis and Forecasting Capacity



Challenges

- Inadequate consumables for conducting upper air observation (balloon and radio-sonde).
- Limited coverage of Doppler weather Radar.
- Challenges in swell and tidal wave forecasting.
- Lack of resources and expertise.
- Data gaps due to instruments failures (Mainly AWS).
- Gaps in Human Resources Development.
- Inadequate Training Facilities.
- Inadequate budget for infrastructure development and maintenance cost.
- Need training for live weather presentation techniques and weather presentation graphics.

Thank you