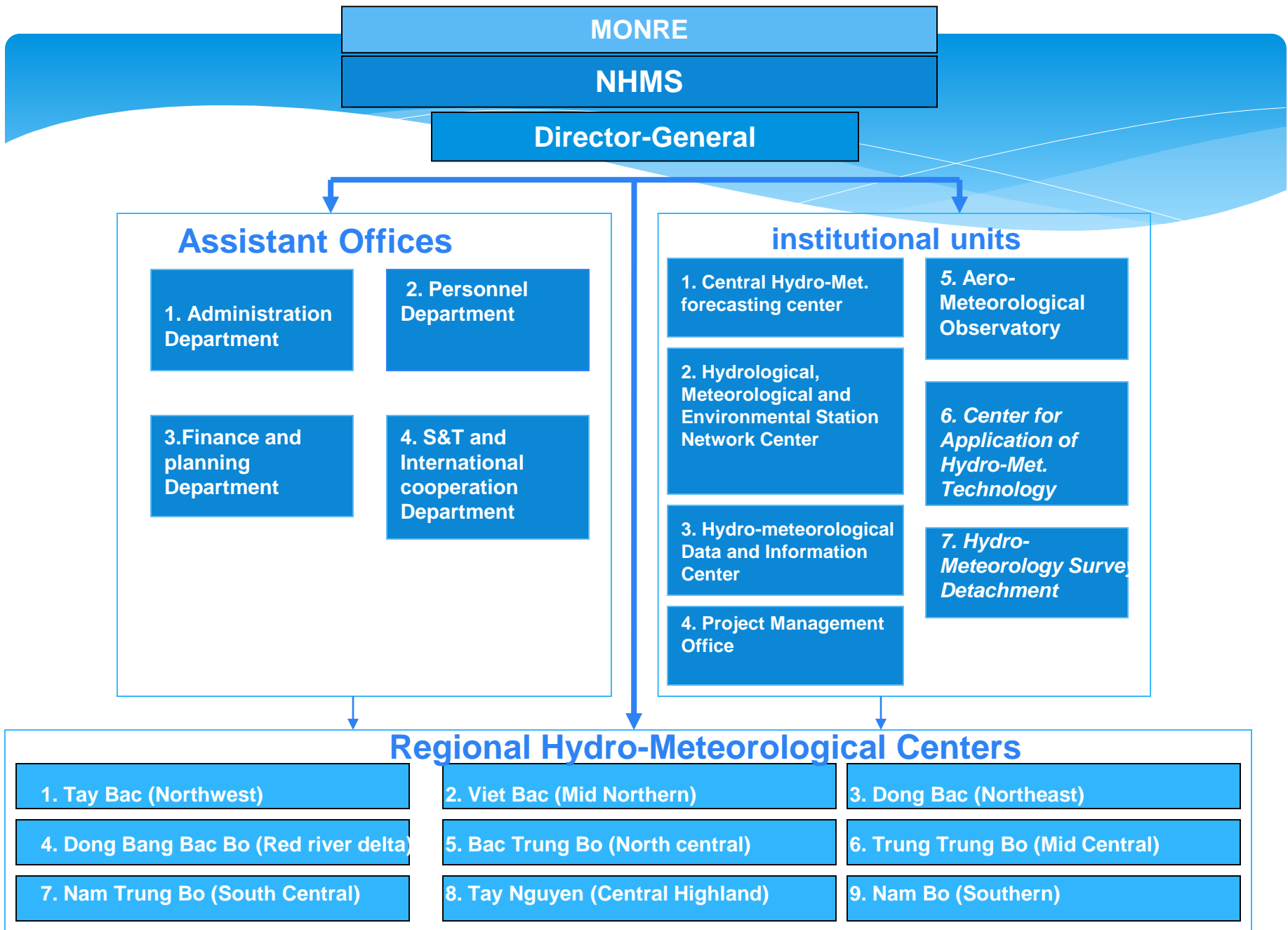




Ministry of Natural Resources and Environment  
**National Hydro-Meteorological Service**

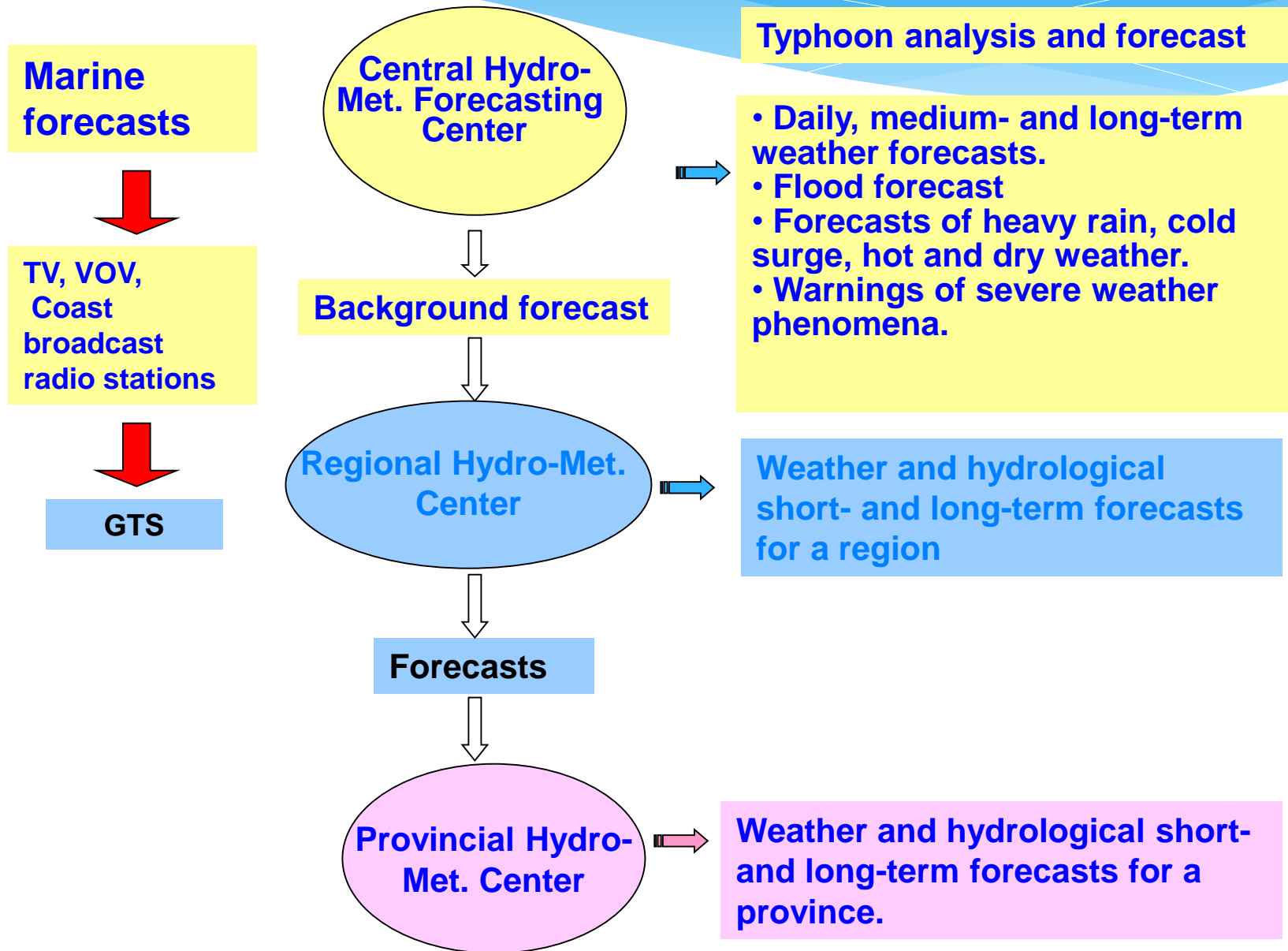
**BRIEF INTRODUCTION  
OF NHMS's ORGANIZATION STRUCTURE  
AND ACTIVITIES IN VIET NAM**

**Bangkok, Aug 2018**



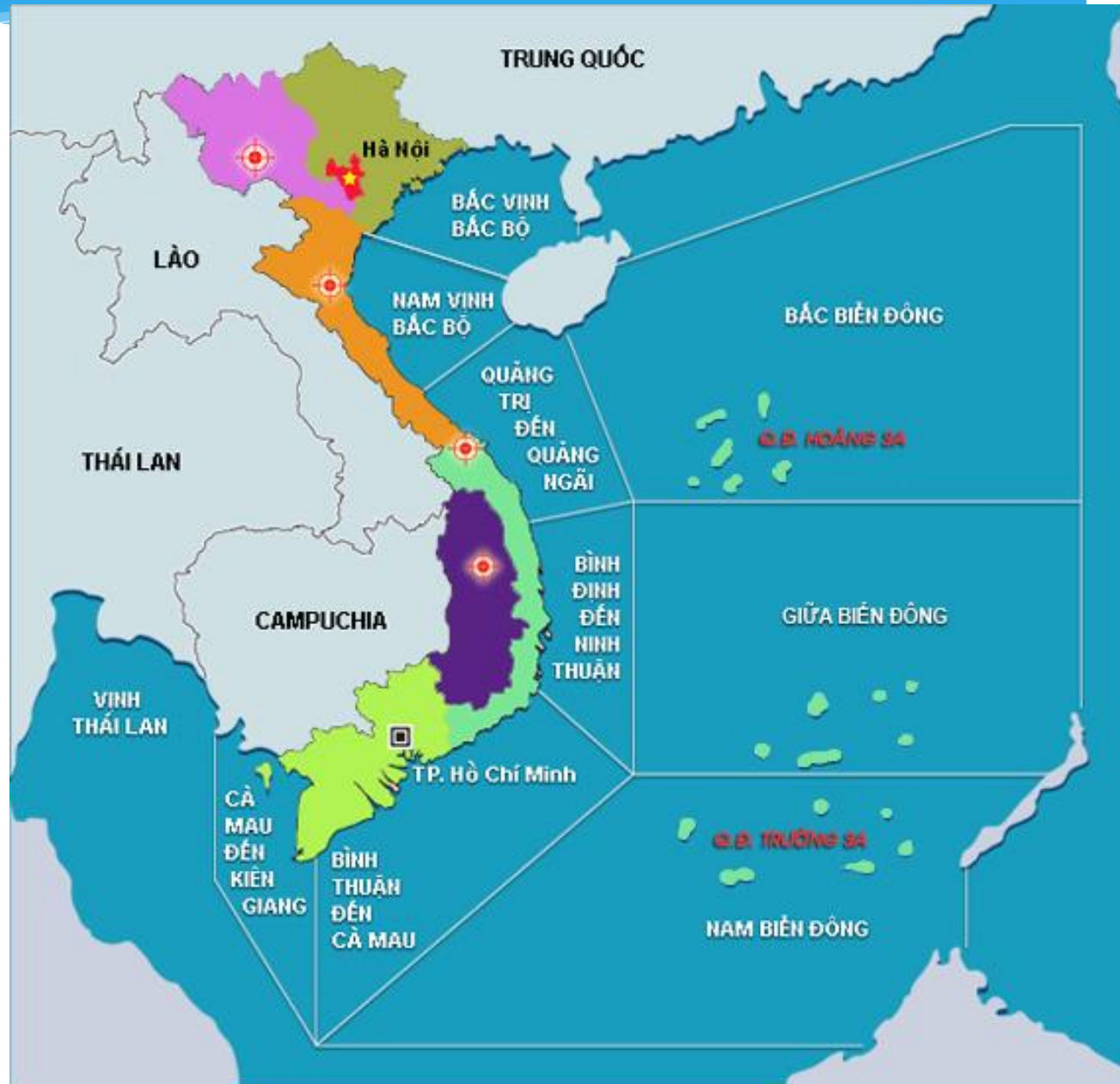
**Organization chart of NHMS**

# Functions of each forecasting level



# Area of responsibility on Hydro-Met. forecasts

- ① The North west
- ② The northeast
- ③ The north of central VN
- ④ The south of central vn
- ⑤ central High land
- ⑥ The southern region



# Hydro-meteorological data collection

**Surface Meteo. Stations: 186**

\* **Raingauge sites : 889 (414+475)**

\* **Radiation: 14**

\* **Hydrological Stations: 232**

\* **Marine Met. Stations: 23**

\* **Aero- Meteorological Observation**

\* *Radiosonde stations: 6*

\* *Wind-gauge by theodolite: 8*

\* *Ozone and UV : 3*

\* *Weather radars: 7*

\* **Air and water environment observation stations: 179**

*Automatic stations: 10*

*Dust/rain water quality : 16*

*River Water Quality : 51*

*Reservoir water quality : 4*

*Coastal water quality : 6*

*Salinity : 91*

*Climate Change Monitoring Station: 1*

\* **Satellite receiving and processing station**

*Data available:*

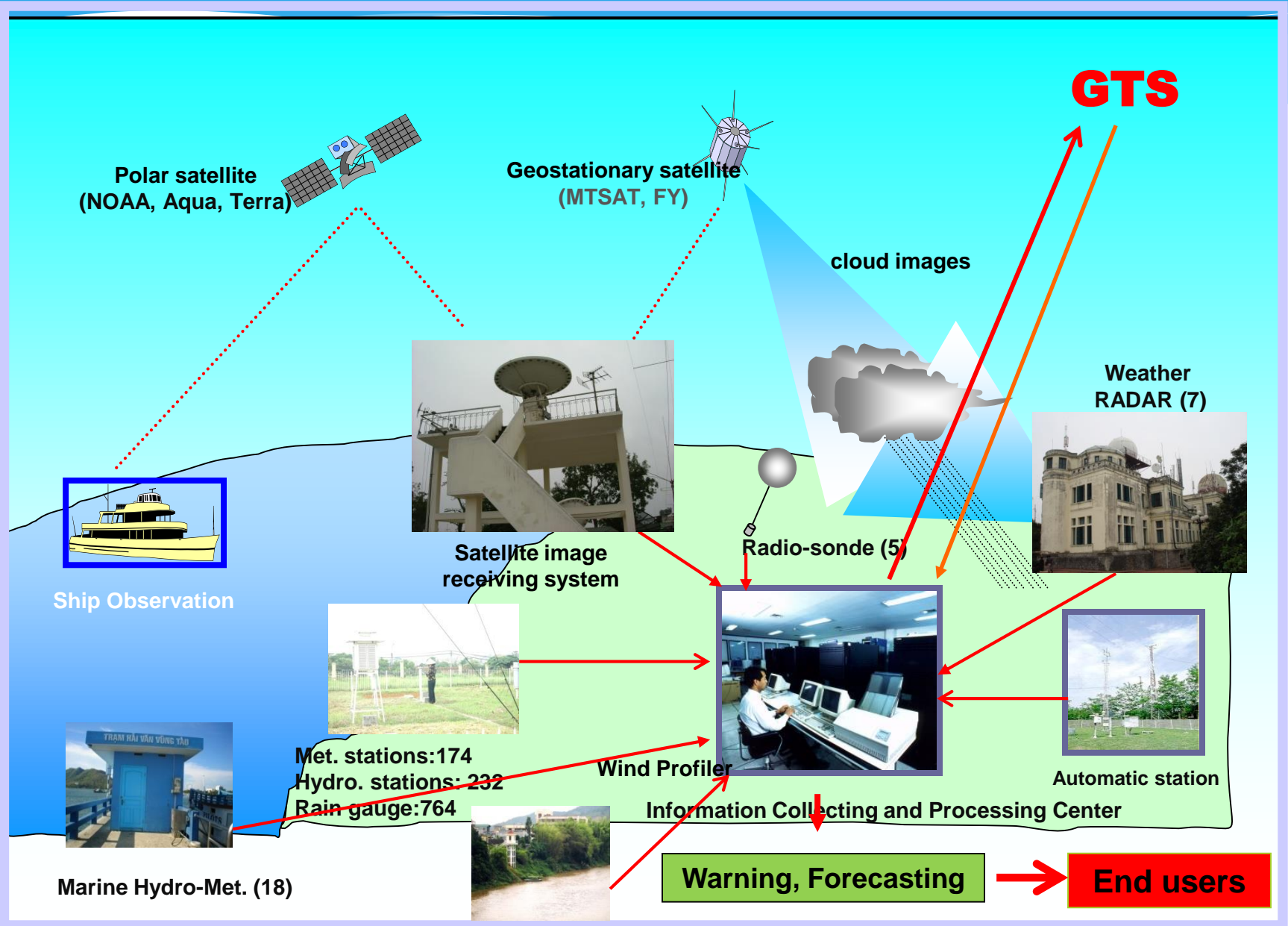
➤ *Geostationary satellite (48sets/day): MTSAT-1R, CMACAST,*

➤ *Polar-orbiting satellite: NOAA series and FY-1D, Himawari 8.*

➤ *Microwave: Internet*



# HYDRO-METEOROLOGICAL DATA COLLECTION SYSTEM



# Science, technology activities

Research work focuses on improving the quality of:

- forecasting, disaster prevention service;
- hydro-met. investigation, exploiting effectively modern machineries, equipments;
- hydro-met. data achieves and services
- Weather modification is implemented at Vietnam in the war by US. After that, there are some researched in cloud seeding but it is too expensive to implement.

# International Cooperation activities

## **Multilateral Cooperation:**

Viet Nam is a member of WMO since 1955 and succeeded in 1976.

Viet Nam has relations with various organizations: UNDP, UNEP, UNESCO, ESCAP, APEC, Typhoon Committee, ASCMG, WB, ADB, ADPC, Me kong River Commission, etc.

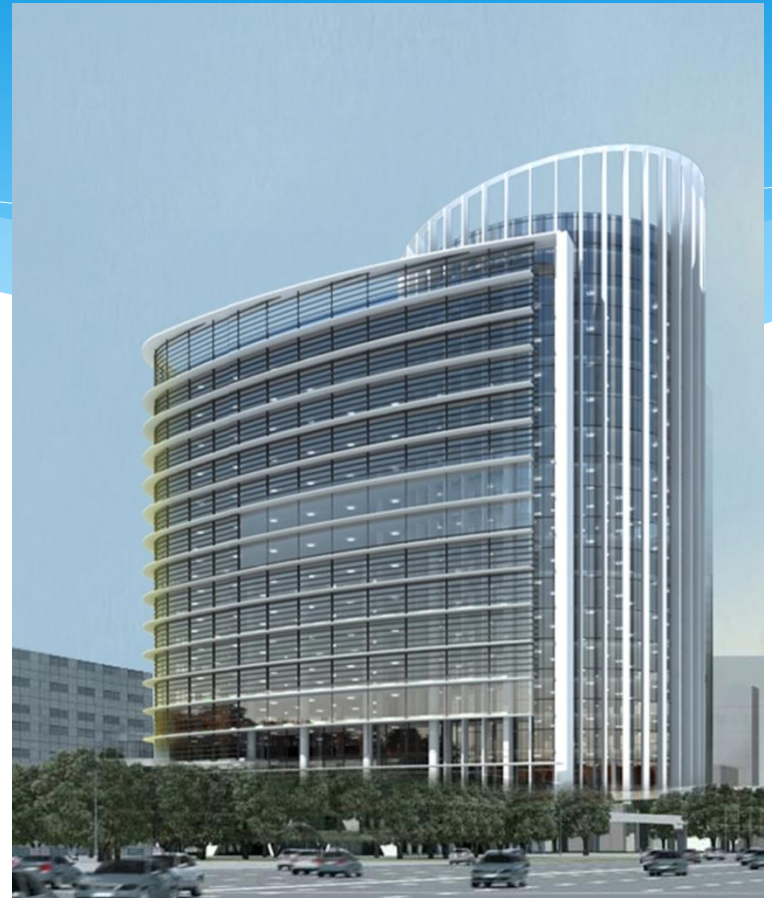
## **Bilateral Cooperation:**

Republic of Korea, Russia, Australia, US, Japan, Italy, Finland, Denmark, Norway, Lao PDR, China, ...









**Thank you !**