

# Pillar 2 : Addressing Challenges in an Indo-Pacific Way

## Case (20): International cooperation in the weather, earthquake and tsunami fields that contributes to the disaster risk reduction

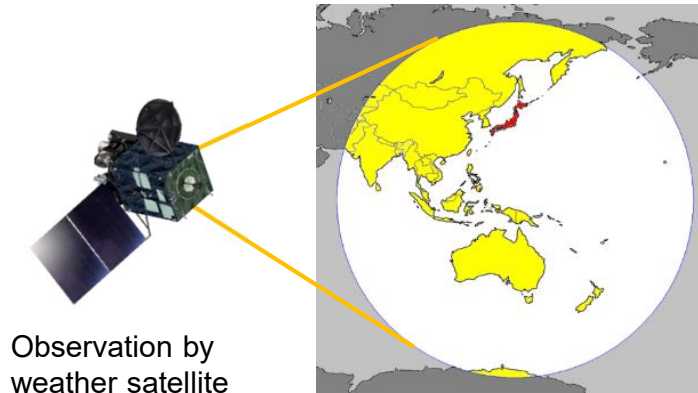
### 1. Basic concept

- Since there is no border for natural phenomena, international cooperation is essential to take measures against weather, climate change, flood, earthquake and tsunami, all of which affect wide areas on the earth.
  - All countries in the world need to exchange observation data and information with other countries, enhance their own observation and forecast capabilities, and establish an early warning system in the country in collaboration.
- ⇒ **Japan will cooperate with international organizations such as the World Meteorological Organization (WMO), countries and related organizations in the regions including Asia and Pacific regions in the fields of weather, climate change, flood, earthquake and tsunami to realize a “resilient and sustainable society” against disasters.**

### 2. Items of cooperation

- Providing observation data obtained by the weather satellite Himawari in the WMO framework, and supporting the activities and capacity building of weather institutions of each country in the fields of typhoon, observation, climate and communications as a regional center.  
(e.g.) Provision of observation data obtained by the weather satellite Himawari to all countries in the Indo-Pacific region, and technical support for utilizing the data  
(e.g.) Provision of typhoon information to countries in the northwestern Pacific Ocean and the South China Sea
- International cooperation in the marine, tsunami, storm surge, and other fields in the framework of the Intergovernmental Oceanographic Commission of UNESCO, etc.  
(e.g.) Provision of tsunami information to countries bordering the northwestern Pacific Ocean
- Supporting efforts to improve the observation, forecast and warning capabilities of developing countries in weather, earthquake and tsunami fields with cooperation with JICA  
(e.g.) Dispatch of experts, and acceptance of trainees in JICA’s projects in countries in the Asia-Pacific region
- Operating an international cooperation framework (Sentinel Asia), which shares disaster emergency observation data and disaster-related information obtained by satellites, under the participation by JAXA and overseas space agencies. Asian Disaster Reduction Center accepts the request of emergency observation.  
(e.g.) Observation data was provided when a volcanic eruption occurred in Tonga in January 2022.

(e.g.) Satellite-related initiatives



Observation by weather satellite Himawari



Technical cooperation on the use of observation data obtained by the weather satellite Himawari



Sentinel Asia