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Strengthening EWS and Social Resilience

Trough Effective PPP/PPE Framework

COP30 Belem, Brazil

Japan Pavilion Seminar “Advancing Resilient Supply Chains through EWS”

13 November 2025

“ I want to protect the lives of mariners.”

“ I want to help in time of crisis.”



January 1970, an explosive low-pressure system hit the port of Onahama, Japan, and lives of 15 crew on the vessel has lost.

“This tragedy might have been prevented if truly useful weather information had been available”

Weathernews Inc. was established in 1986 with a sense of responsibility and will of company founder Hiro Ishibashi.

Since then, our “Risk Communication services” have been expanded and innovated to cover all business and lives.

We need both Early Warning for ALL & Early Warning for YOU



Founded	June , 1986
Stock Exchange	Tokyo stock exchanges, Prime Market
Headquarters	Chiba , Japan
Representative	Tomohiro Ishibashi,
Capital stock	1,706 million yen
Sales	23,505 million yen (as of May 2025)
Employees	1,138 (as of Oct 2025)
Offices	31 offices in 21 countries (Service & Operation Centers : 8 centers)

Our Business Domains

Shipping: Over 10,000 vessels worldwide under our service in a year
Aviation: Over 13,000 flights a day for safety, comfortable & economical flight
Road: Support services with high-resolution forecast & original observations
Train: Impact-based forecast and climate risk analysis for car management

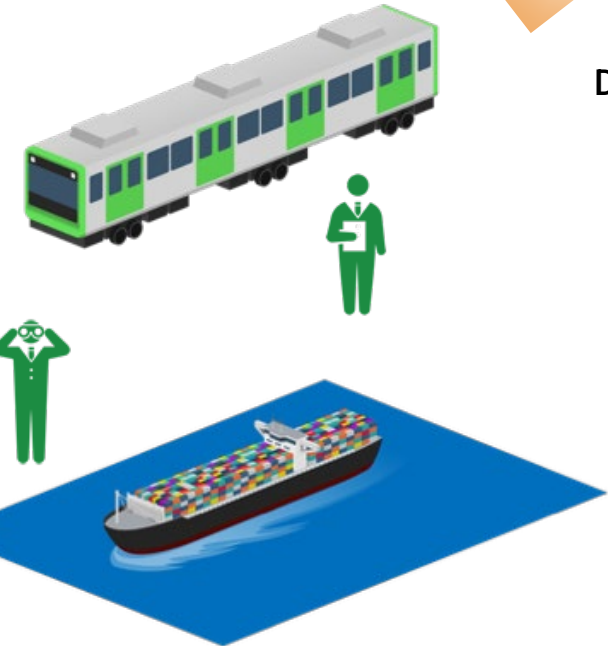
Sea Planning Shipping Offshore Energy Sea Logistics Offshore & Near Sea Fishery					Sky Planning Aviation		Mobile / Internet Planning Mobile Internet Travel Wellness Flower Weather Literacy Farm Disaster Reduction Star Photo Space Weather			
Land Planning Road Management Railway Transportation Facility Management Local Government Construction Event Management River Administration Telecom Carriers Manufacturing Management Insurance Dynamic Climate Change Terrestrial Phenomena Air Quality Analysis					Broadcast Planning Broadcasting		Sports Planning Sports Football Motor Sports Boat Sports Festival Baseball Sky Sports Mountain			
Environment Planning Energy Retailer Agriculture Dam Operation Management					Climate tech Planning Climate tech					

EWS for Supply Chain

Public Sector



Early Warning



Private Sector



The private sector plays a vital role in society by disseminating warning and disaster information to all industries and individual users through a variety of media.



Feedback

Internet

Mobile

TV

Feedback

Dissemination

Dissemination

Dissemination



Legal Framework for Meteorological Services in Japan - Meteorological Service Act - (enact 1952)

1993: Enhancement of Public-Private Partnership

- Establishment of an authorized organization for dissemination of meteorological data to the private sector
- Establishment of “certified meteorological forecasters” system
- Authorization of Public Weather Forecast by the Private Sector

<p>気象庁 Japan Meteorological Agency</p>	<p>weathernews Always WITH you!</p>
<p>Public Weather Service</p>	<p>Your Weather Platform (Info. Exchange Platform)</p>
<p>Weather Forecast Warning</p>	<p>Weather Forecast Solutions for Risks <i>Warning Dissem. to End-users</i></p>
<p>Basic Observation</p>	<p>User-Oriented Obs. for Specific Service</p>



Structure



Assistance Package by the Government of Japan for Averting, Minimizing and Addressing Loss and Damage” (APLD)



MOEJ’s Initiative to Promote the Development of Early Warning Systems through Public-Private Partnerships in the Asia-Pacific Region



The Consultation Meeting of the Public Private Partnership for the Development of Early Warning Systems in the Asia Pacific Region

Discussion in the International Community

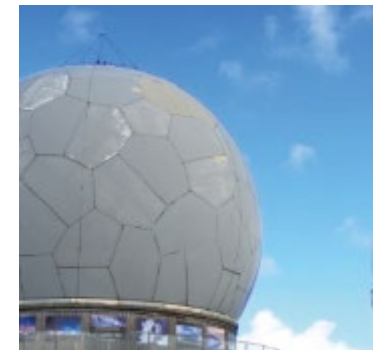
- “Loss and Damage” was an official agenda item at COP27
- Importance of the International community to work together to avert Loss and Damage
- Requirement of efforts to achieve Paris Agreement, Sendai Framework for Disaster Reduction, and SDGs

Purpose

Work with the international community to provide comprehensive support such as human resource development, early warning system development against loss & damage

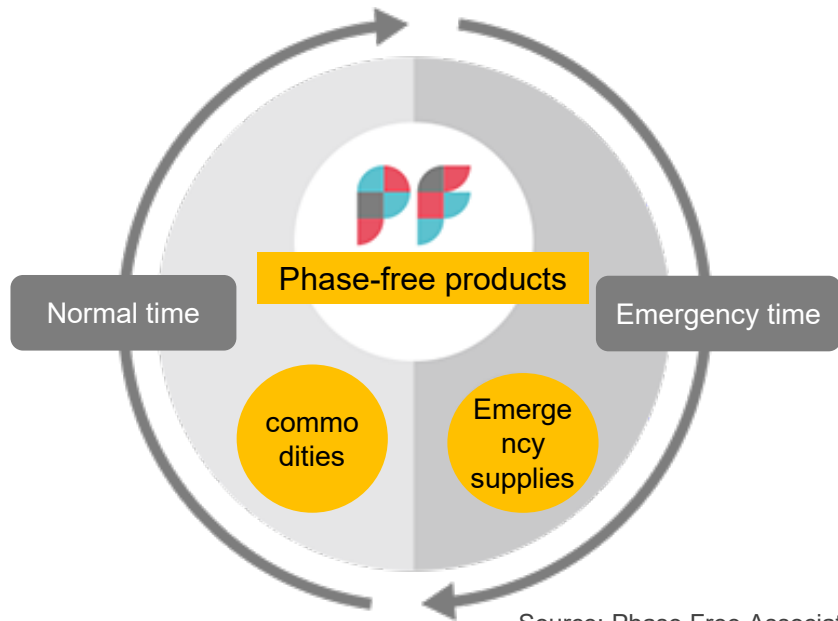
Promote business development related to early warning systems by the Japanese private sector in the Asia-Pacific region

Develop EWS prototypes by private sector





Source : FloodS Web site (<https://top.floods.green/>)



Source: Phase Free Association

Knowledge sharing

- Free use of tools developed by the Ministry of the Environment
- Free provision of the deliverables
- Provision of information on regulations, market needs, and etc.

Business strengthening

- Support for co-Development of business models
- Support to phase-free business
- Creation of collaboration opportunities with development consultants, etc.
- partnerships for CSR projects of participating companies
- Provision of PoC opportunities through Ministry of the Environment funds


Promotion of overseas expansion







- Support for discussions and procedures with local governments
- Support for collaboration with NPOs for international cooperation in disaster prevention
- Publicity at international meetings, etc.
- Secure funding by leveraging the name value of the Ministry of the Environment
- Support for accessing climate and ODA funds

Progress in deploying Early Warning Systems

- Conduct needs assessment and design business prototypes in ASEAN countries
- Implement on-site survey and promote EWS deployment through PPP

Preliminary study for the introductions of EWS

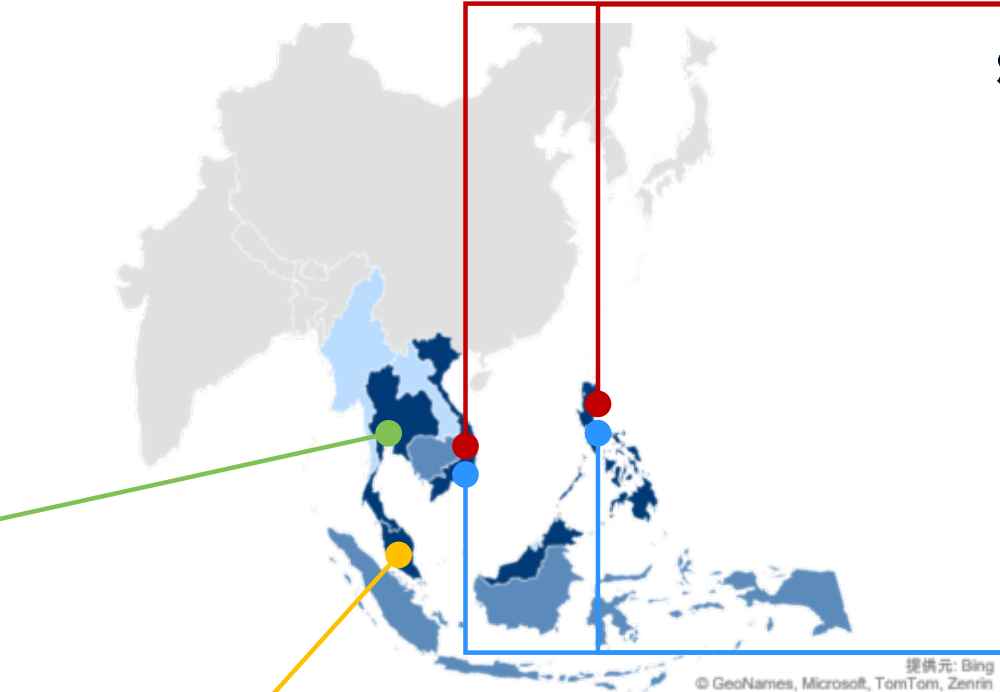


Viet Nam 	Thailand 	The Philippines 
Indonesia 	Cambodia 	Malaysia 

 **Weather Information Service**

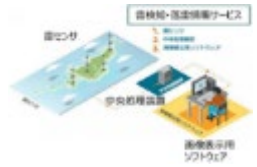


 **AI Disaster & Crisis Management Solution**



Flood Simulation

HITACHI
Inspire the Next



Needs assessment for lighting protection services



Global Collaborations of Weathernews Inc.



**Partnership with National Government
(Early Warning Initiative, MOE Japan)**



COP29 (Baku, 2024)



**Innovative Collaboration with Academia
(Oklahoma University, US)**



**Collaboration with Local Government
(Bangkok City)**



**International Conference of EW4All
(World Bank)**

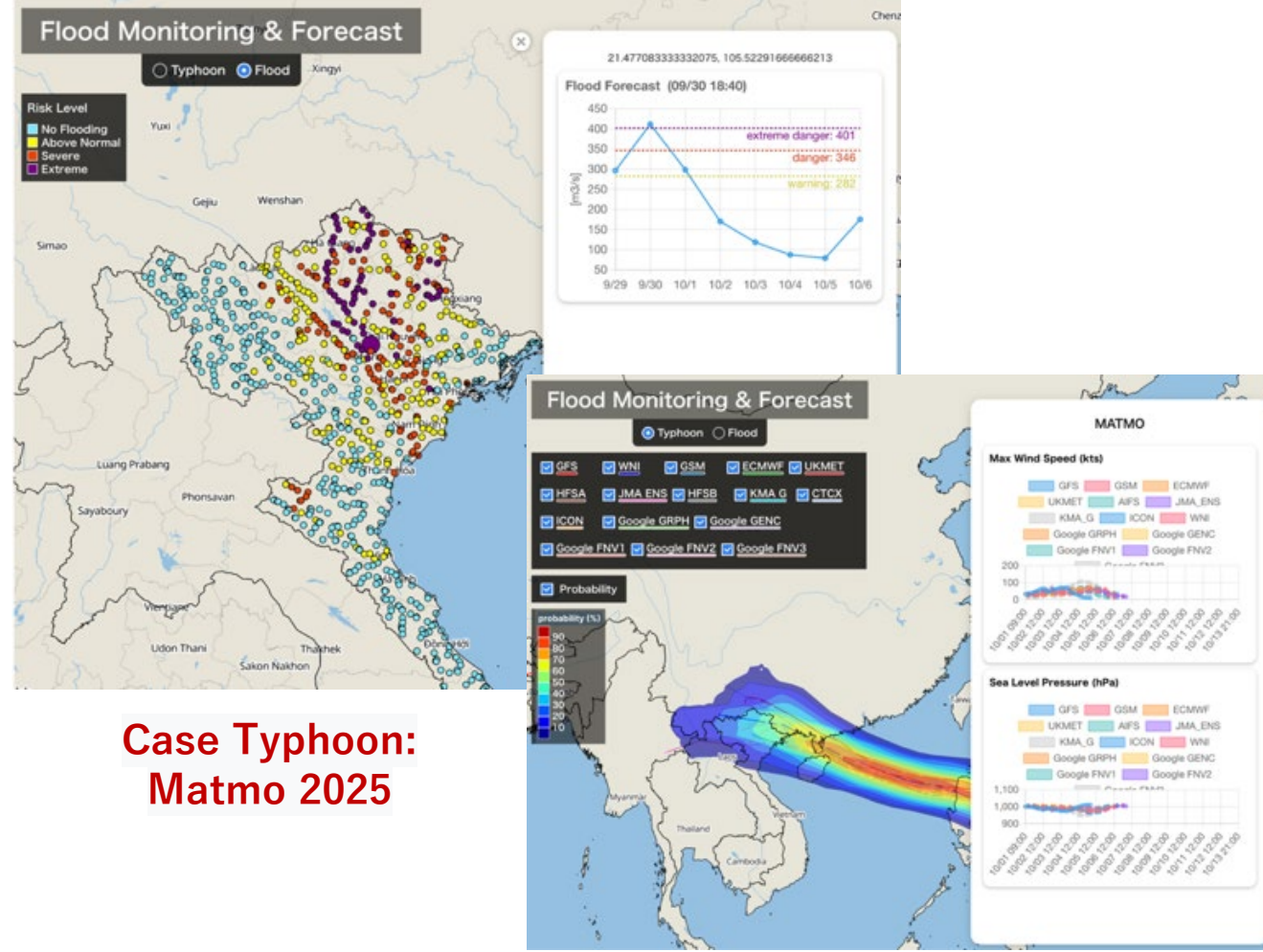


**Contribution for International Organization
(IMO/WMO 2nd Symposium)**

VNMHA : Viet Nam Meteorological and Hydrological Administration
 PAGASA : Philippine Atmospheric, Geophysical and Astronomical Services Administration

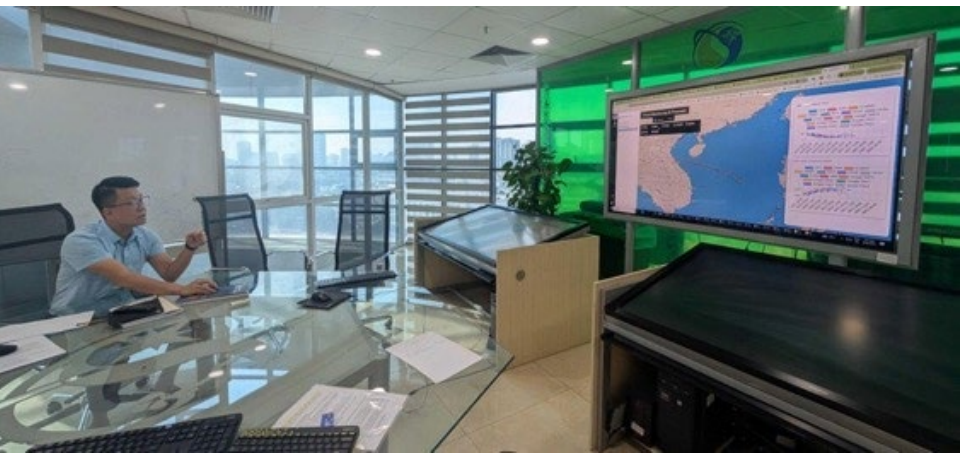


VNMHA Signing Ceremony on July 31, 2025



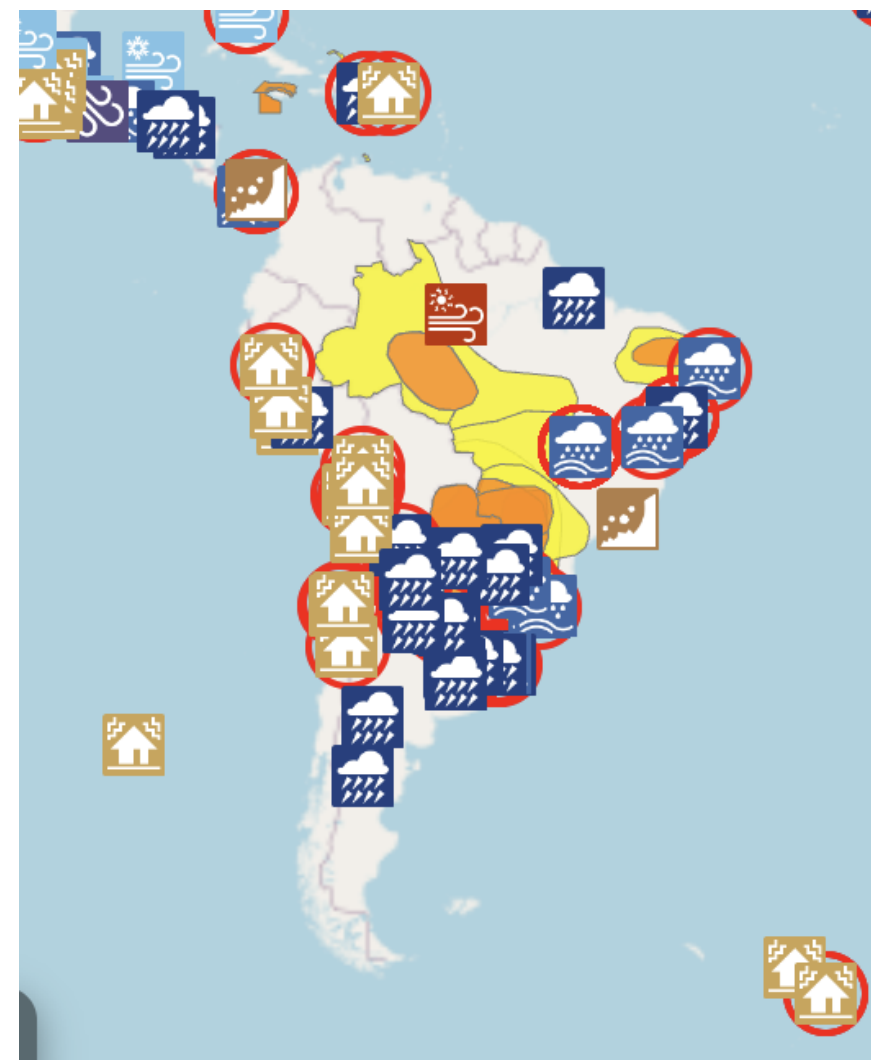
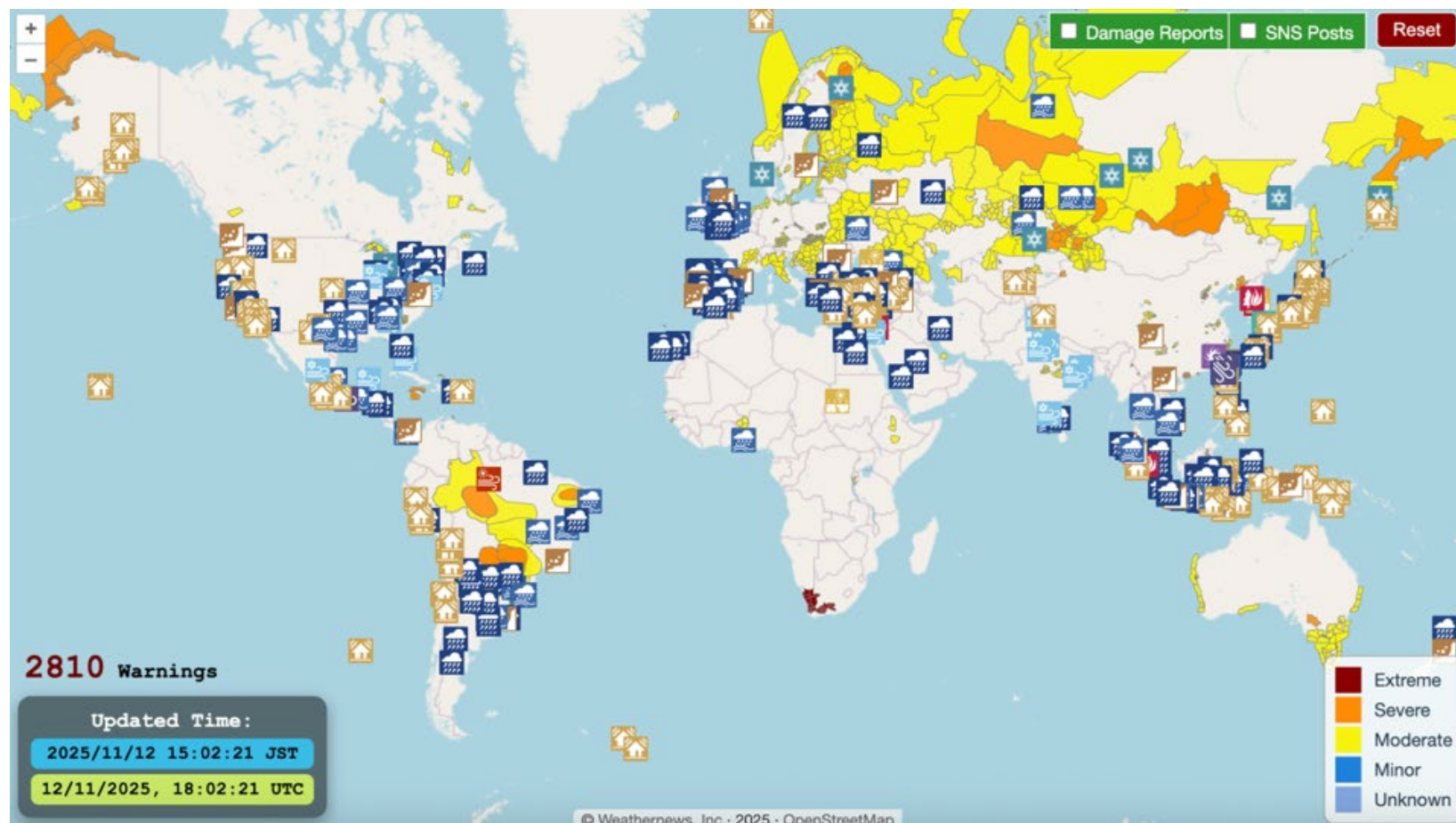
**Case Typhoon:
Matmo 2025**

Dashboard of Flood Forecasting & Typhoon forecast



Typhoon meeting in Vietnam National Forecast Center

Early Warning Dissemination



Early warnings from meteorological agencies around the world and damage reports

Implementation of our Services in Amazon River

Record Drought: The Amazon Basin Crisis

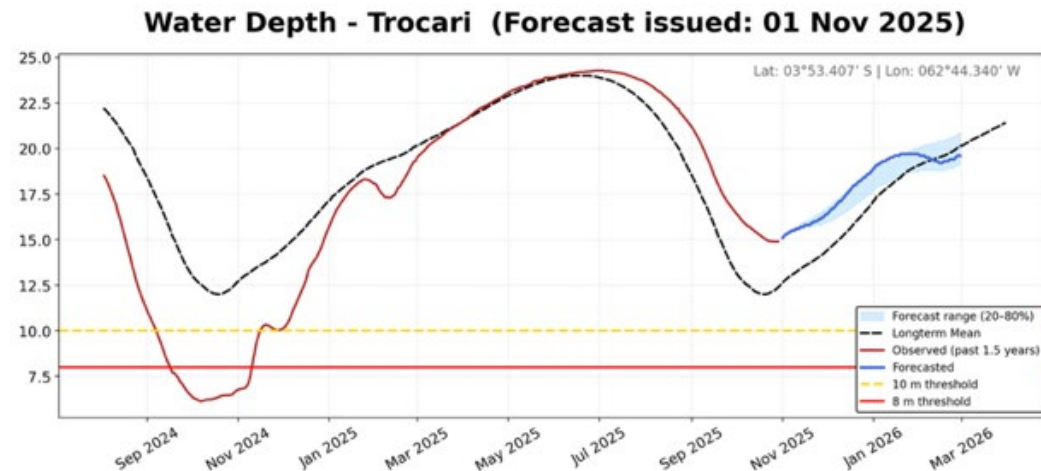
From September to November 2024, the Amazon River basin in Brazil experienced the worst drought since records began in 1950. Notably, the Negro River, one of the Amazon's largest tributaries, recorded its lowest water level for this time of year near Manaus in Amazonas state.

Case Study: Supply Chain Resilience Project

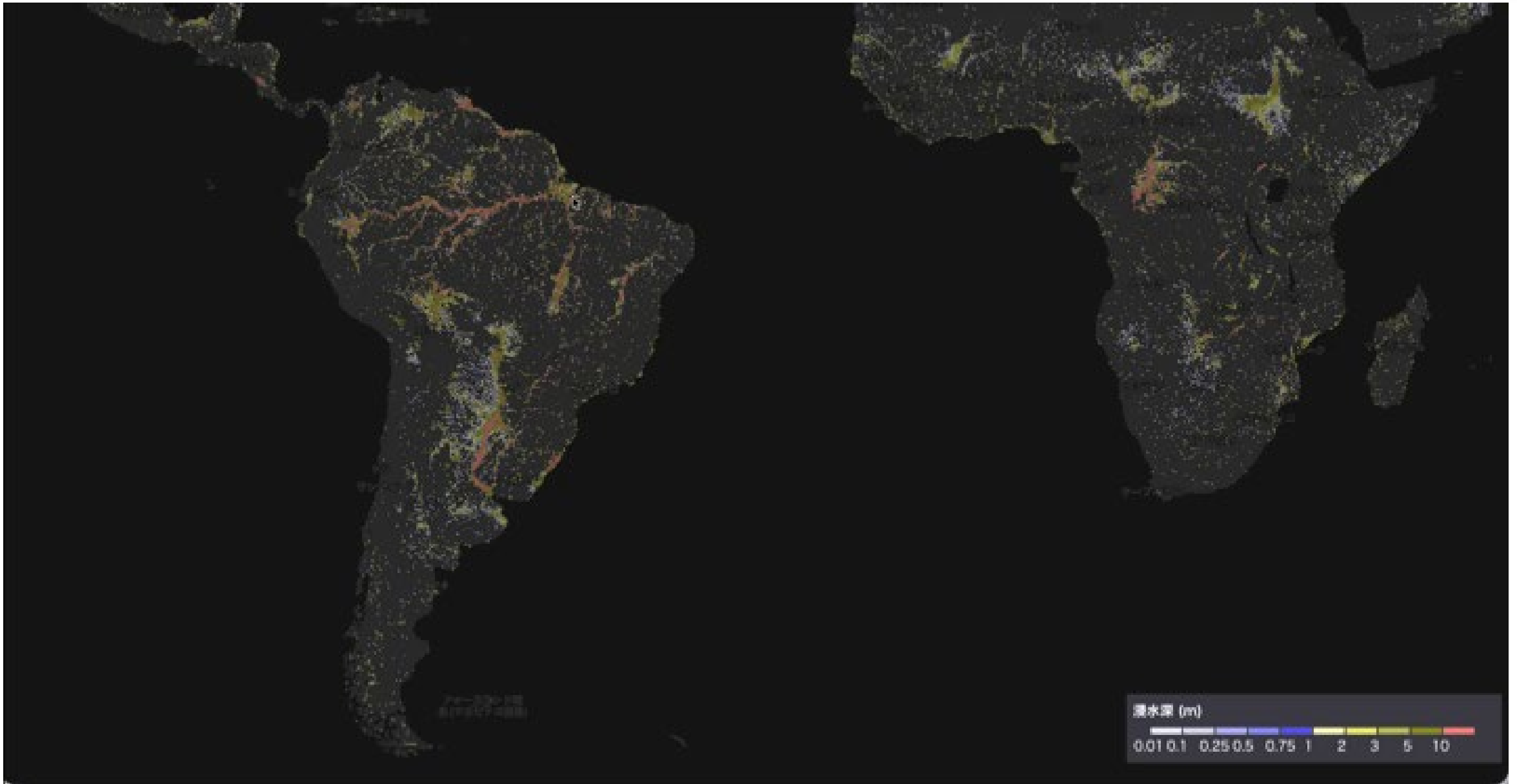
Challenge : The Amazon River is a vital logistics route, but recent record droughts have severely impacted the supply chain. Vessel operational restrictions and grounding risks have increased, making the stable supply of goods difficult.

Initiative : Leveraging our expertise, Weathernews initiated a joint project with a Major Brazilian Company highly dependent on river logistics, focused on enhancing their critical supply chain resilience in response to this challenge.

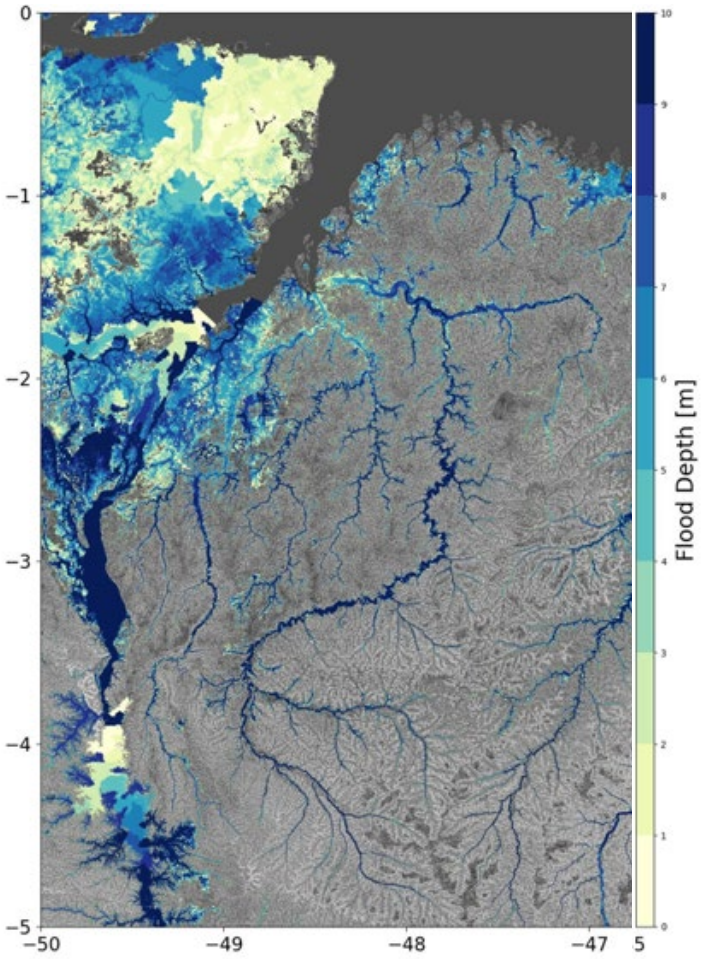
Expected Outcome : This project focuses on highly accurate prediction of river water levels one to four months in advance to effectively support logistics countermeasures. By implementing proactive measures based on these long-term water level forecasts, the project aims to reduce logistics costs and stabilize supply routes.



Implementation of our Services in flood and drought



Implementation of our Services in flood and drought



Future Flood Depth Map for the Near-Future 1000-Year Return Period Near Belém

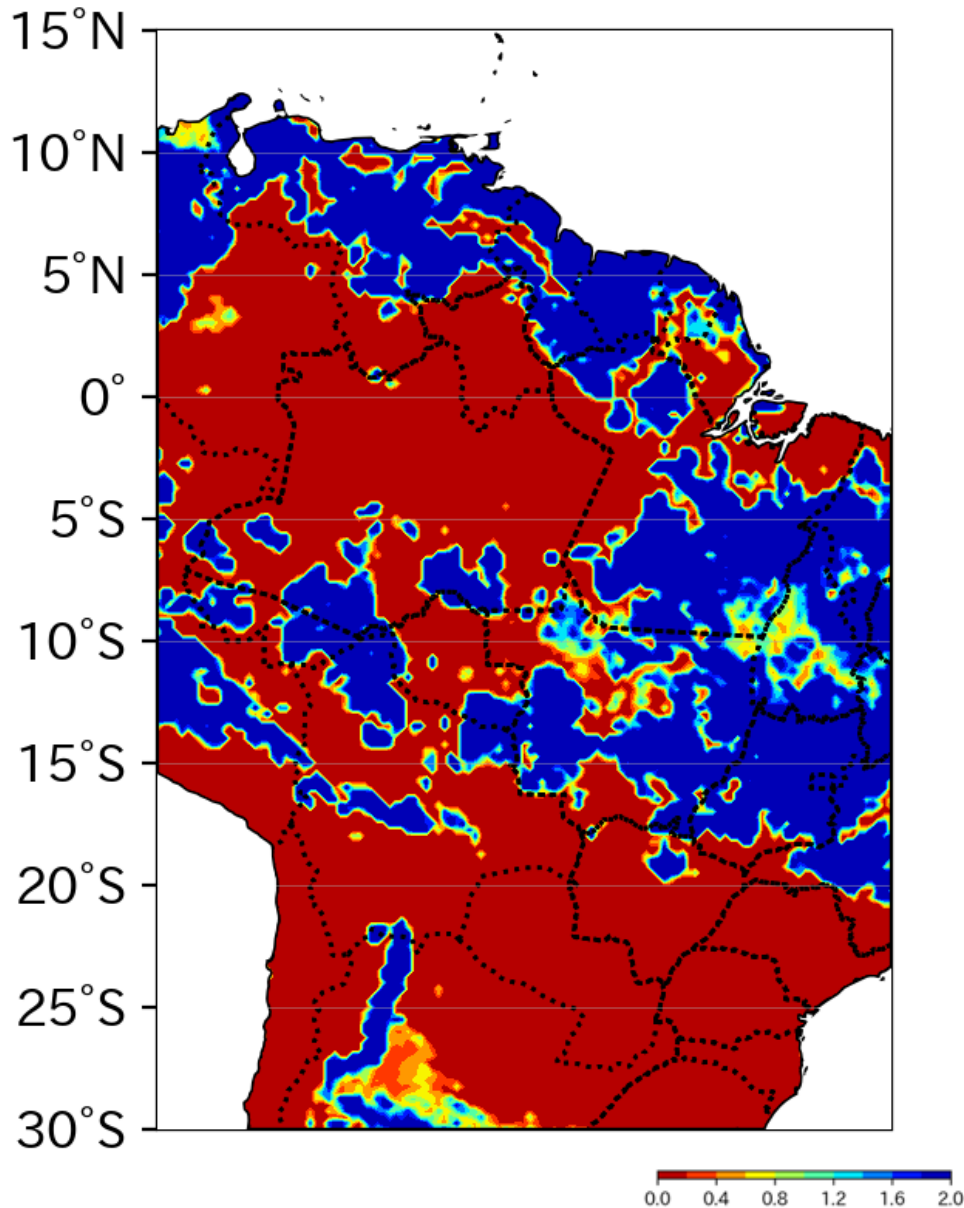


Projected Annual Number of Dry Days in 2050 Compared to RCP4.5 Scenario

As an analysis to optimize understanding of corporate raw material procurement risks, business continuity risks, and logistics providers' logistics needs posed by climate change, we are conducting risk analysis for long-term flooding and drought caused by climate change.

To stabilize the supply chain, we must address not only the risk of flooding and storm surge inundation but also the risk of drought.

*For flood analysis, we are using a 90m (30m in some countries) square grid worldwide.



In 2024, heatwave in Asia, Africa, Europe, the Middle East, and North America has already caused significant damage, claiming hundreds of lives, reducing labor productivity and crop yields, disrupting education and energy supplies, and increasing the risk of wildfires.

Weathernews has been developing the Forest Fire Forecasting System with the Forestry Agency of Japan. Forest Fire Risk Index is calculated by meteorological data, remote sensing forest condition data, topography, and population density.* (*90% of forest fires are caused by human factors)

Using these technologies, WNI is trying to collaborate with local government agencies in the Balkans to build a forest fire information system and is aiming to use this system to strengthen disaster prevention and mitigation.

To maximize our contribution through weather services, the following are essential for success:

1. Legal Framework

A well-defined legal framework is crucial for facilitating effective public-private partnership / engagement. This will accelerate the implementation of effective EWS and strengthen social resilience includes the supply chains.

1. Data, Infrastructure & Technology Sharing

Actively promoting the sharing of data & infrastructure, along with the adoption of cutting-edge technologies, will enable the delivery of new values to the society.

1. Dialogue with the Community

Rather than one-way information distribution, it is important to provide services that understand the business operations and risks within each industry, as well as the needs and wants of users. Prioritizing dialogue with users is essential to achieve this.

**Our dream is to be the Weather Information Platform
to reduce the weather and climate risk for
8 billion people living in the world.**

**We believe,
our services that integrate traditional meteorological approaches
with cutting-edge technologies such as AI, will help the establishment
of resilient global supply chains and people-centered EWS.**

We look forward to working with you in the near future.

Thank you!

<https://global.weathernews.com/>

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