S H O R T U S E R G U I D E
W R S - T S P I N D O N E S I A
2 0 2 2

COPY RIGHT:
CENTER FOR EARTHQUAKE AND TSUNAMI - BMKG

INNOVATOR:
1. Dr. Karyono S.Kom, M.Kom
2. Melky Adi Kurniawan, S.Si
3. Ridwan Kusnandar ST, M.Si

CENTER FOR EARTHQUAKE AND TSUNAMI
DEPUTY OF GEOPHYSICS
INDONESIA AGENCY FOR METEOROLOGY CLIMATOLOGY AND GEOPHYSICS
Jl. Angkasa 1 No.2 Jakarta 10720
Currently, Indonesia along with Australia and India are Tsunami Service Providers for **28 countries in the Indian Ocean area. WRS-TSP Indonesia** (stands for Warning Receiver System of TSP Indonesia) is the real-time system to receive tsunami bulletin using a recommended set of hardware such as a large or **smart display**. WRS-TSP connected online to the processing and dissemination system of TSP Indonesia at BMKG head quarter Jakarta.

**WRS-TSP** ensures NTWCs of the Indian Ocean Countries keep informed tsunami bulletin timely and properly.

**NTWCs could immediately take further essential actions** right after they received the tsunami bulletin.
Text2voice Sound Alert (when new information available)

Real time Earthquake Information (M>6.5) with visualization of time propagation of P and S wave

TSP Tsunami Bulletin with popup window

Historical events on TSP web sites.

Cloud web base application
TIME LINE OF TSP TSUNAMI BULLETIN

**BULLETIN TYPE - 1**
earthquake bulletin, the first bulletin of TSP consist of earthquake information

**BULLETIN TYPE - 2**
tsunami assessment bulletin, consist of update of EQ parameters and tsunami assessment

**BULLETIN TYPE - 3.N**
confirmed tsunami bulletin. Consist of update of EQ parameters and confirmation of tsunami event recorded by sea level observation instruments

**BULLETIN TYPE - 4**
final bulletin of TSP

**TIME LINE**

1 Minutes

BMKG EQ processing

3 Minutes

Re-analysis by Operator on duty

<10 Minutes

Manual Tsunami bulletin based on TSP SOP of BMKG

*Note:*
- 10 Minutes: Last ETA +2 hours
- 20 Minutes: Last ETA +2 hours
- 3 Minutes: Last ETA +2 hours
- 1 Minute: Last ETA +2 hours

---

**T I M E L I N E**

**W R S - T S P**

**I n d o n e s i a**

**Earthquake**

**Auto Real-time EQ Information**

**Real-time EQ Information**
**BULLETIN**

**WRS-TSP Indonesia**

**DETAILED BULLETIN OF WRS-TSP INDONESIA (POPUP WINDOW)**

1. **Bulletin type-1 earth quake info**

![Earthquake Bulletin](image1)

2. **Bulletin type-2 threat**

![Bulletin-2 TSP Indonesia](image2)

3. **Bulletin type-3 confirmed**

![Bulletin-3 TSP Indonesia](image3)

4. **Bulletin type-4 final**

![Bulletin-4 TSP Indonesia](image4)

---

**2.a. Bulletin type-2 no threat**

- **Origin Time:** 12-Nov-2020 03:48:39 UTC
- **Location:** Sumbawa Region, Indonesia

---

**2.b. Bulletin type-2 threat**

- **Origin Time:** 19-Nov-2020 09:48:23 UTC
- **Location:** Sumbawa Region, Indonesia

---

**NO TSUNAMI THREAT IN THE INDIAN OCEAN**

Based on pre-run model scenarios, there is no threat to countries in the Indian Ocean.
How to access?

NTWCs provide internet connection

NTWCs provide common PC Client with sound card or active speaker, connect monitor PC to (preferred) large screen (display system). Please make sure that you enable or allow audio and video setting in your internet browser.

Through PC browser (firefox, chrome) open WRS-TSP Indonesia url:

https://inatews.bmkg.go.id/wrs/tsp/index.html

© BMKG 2022