

# Tsunami Early Warning SOP for Broadcasting Media

Indonesia Example

# Broadcasting Media SOP in the warning chain



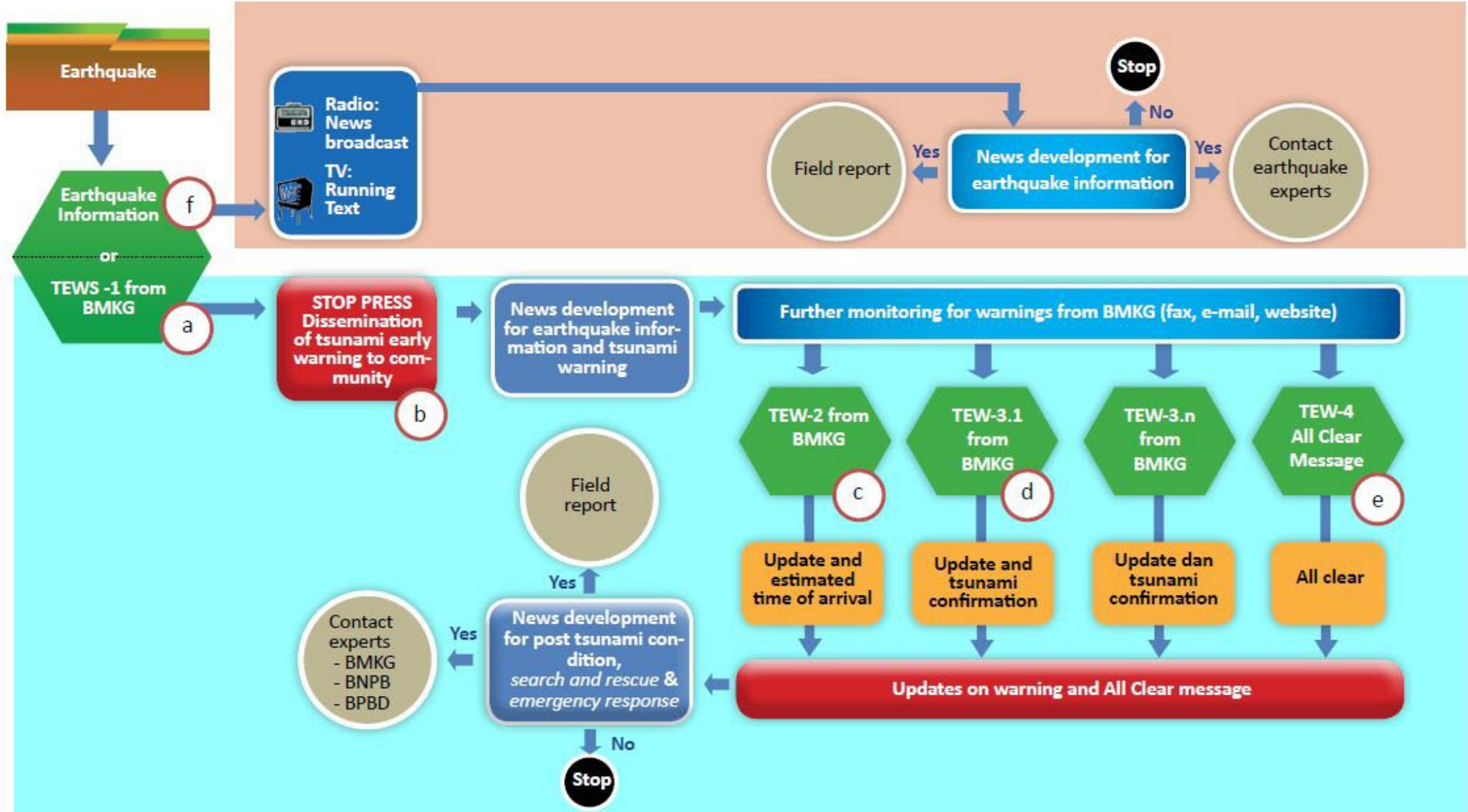
Note:

- 1<sup>st</sup> information came from NTWC

Input			Proceeding	Output		
What	From whom	How received	Processing the input, decision making and generating the output	What	To whom	How disseminated
Warning Bulletins (1, 2, 3.1-n, 4)	National Tsunami Warning Centre	<ul style="list-style-type: none"> <li>• WRS</li> <li>• Email</li> <li>• Text Messages</li> </ul>		<ul style="list-style-type: none"> <li>• Stop Press</li> <li>• Breaking News</li> <li>• TEW News</li> <li>• TEW Updates</li> </ul>	Public	<ul style="list-style-type: none"> <li>• WRS Displayed</li> <li>• Broadcaster live</li> <li>• Running Text</li> </ul>
Time in: EQ + x min			<b>Timeline</b>	Time out: EQ + x min		

Other possible cases → SOP:

- Earthquake is felt at the media office
- Earthquake information came from local contributor, prior to receiving information from the national warning centre.



# TEW-1

Via WRS for TV Stations

**INFO GEMPABUMI**  
Tanggal : 11-Apr-12 15:38:29 WIB

**MAGNITUDO 8,9 SR**

**Lokasi:**  
2.31 LU - 92.67 BT  
(382 km BaratDaya  
KAB-SIMEULUE-  
NAD)

**Kedalaman:**  
10 Km

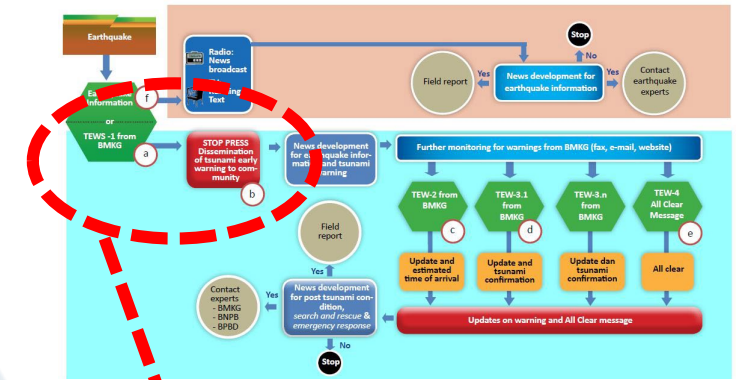
**BERPOTENSI TSUNAMI**

Sumber Informasi: InaTEWS BMKG

Earthquake parameter

Areas at risk  
(Pay attention to the color: red, orange or yellow)

Tsunami Warning



## Stop Press SOP

Actions

- Cut on going program
- Run Stop Press
- Prepare / brief the broadcaster
- Analyse the TEW Info
- Prepare for TEW News
- Prepare running text

# Broadcasting Media SOP in the warning chain

## STOP Press SOP

Note:

- 1<sup>st</sup> information came from NTWC

Input			Proceeding	Output		
What	From whom	How received	Processing the input, decision making and generating the output	What	To whom	How disseminated
Warning Bulletin 1	National Tsunami Warning Centre	<ul style="list-style-type: none"> <li>• WRS</li> <li>• Email</li> <li>• Text Messages</li> </ul>	<ol style="list-style-type: none"> <li>1. Cut on going program (Responsible section: Program Director)</li> <li>2. Rely WRS Screen on Tsunami Early Warning for X second with High tone (Responsible section: News Centre)</li> </ol> <ol style="list-style-type: none"> <li>a. Analyse the Warning Message 1 (Responsible section)</li> <li>b. Prepare for Breaking news (Responsible section)</li> <li>c. Prepare and brief Broadcaster (Responsible section)</li> <li>d. Prepare running text message (Responsible section)</li> </ol>	Stop Press	Public	Freeze Screen displaying WRS information with high alarming tone
Time in: EQ + x min			<b>Timeline</b>	Time out: EQ + x min		

# STOP PRESS

## FOR AREAS ON MAJOR WARNING AND WARNING

AN EXAMPLE OF RUNNING TEXT FOLLOWING A STOP PRESS TELEVISION ALERT

**a. Example of Running Text for a TEW-1 Report :**

*BMKG TSUNAMI EARLY WARNING::: AREAS ON MAJOR WARNING STATUS IN ..... AND WARNING IN ..... THE PUBLIC MUST FOLLOW DIRECTIONS FROM AUTHORITIES.*

**b. Example of Running Text to Follow:**

*IF A TSUNAMI OCCURS, WAVES CAN ARRIVE ON SHORE MORE THAN ONCE. MEMBERS OF THE PUBLIC ARE URGED TO STAY IN A SAFE PLACE UNTIL THE AUTHORITIES ISSUE INFORMATION THAT THE TSUNAMI THREAT HAS PASSED.*

Template for

- Analyse the Warning Info
- Prepare TEWS News
- Prepare TEWS Running Text
- Brief the broadcaster

EXAMPLE OF A RADIO ANNOUNCEMENT

*TSUNAMI THREAT.*

*A TSUNAMI EARLY WARNING HAS BEEN RELEASED BY THE BMKG. AREAS ON MAJOR WARNING STATUS ARE .....AND THOSE ON WARNING ARE ...., ....., ..... THE PUBLIC IS URGED TO FOLLOW DIRECTIONS FROM THE AUTHORITIES.*

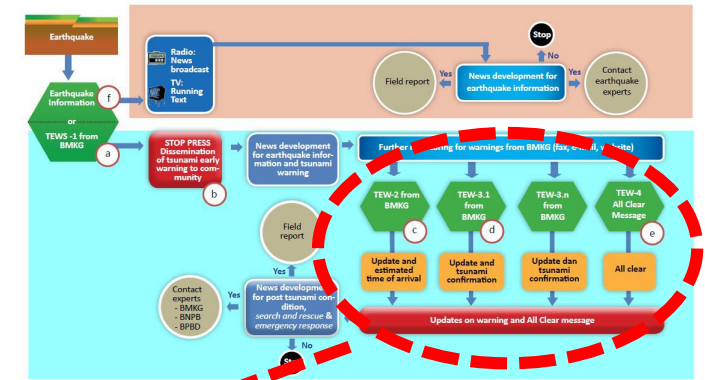
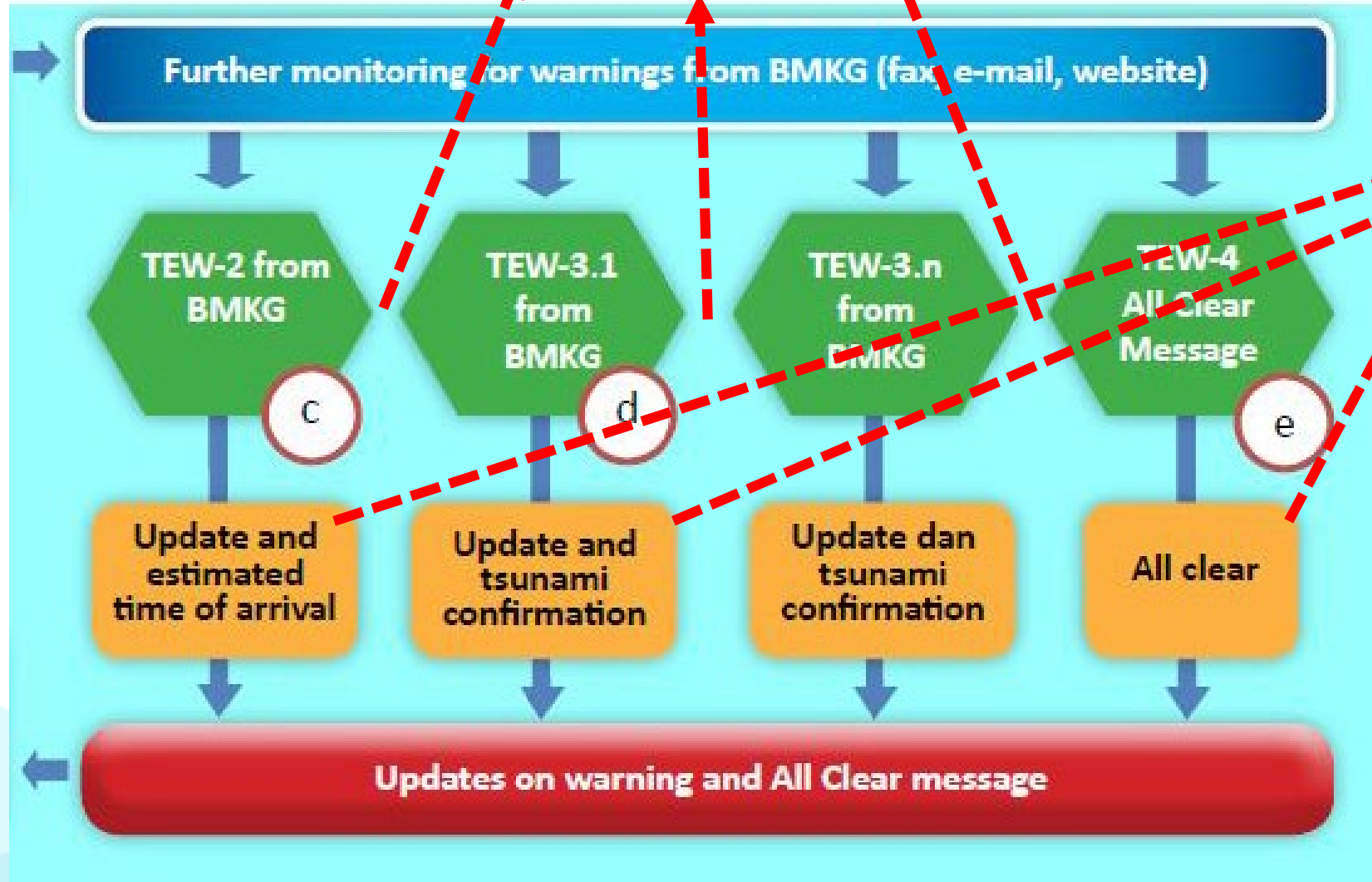
*COMMUNITIES IN AREAS WITH MAJOR WARNING AND WARNING STATUS ARE INSTRUCTED TO IMMEDIATELY GO TO A SAFE PLACE OR HIGHER GROUND, STAY AWAY FROM BEACHES, WATERWAYS AND RIVERS.*

*BE CAREFUL OF SUBSEQUENT WAVES. A TSUNAMI CAN STRIKE THE SHORE MORE THAN ONCE.*

*MEMBERS OF THE PUBLIC ARE ADVISED NOT TO RETURN TO AREAS NEAR THE COAST OR RIVERBANKS UNTIL OFFICIAL INFORMATION HAS BEEN RELEASED BY THE AUTHORITIES THAT THE TSUNAMI THREAT HAS ENDED. FOLLOW THE DIRECTIONS ISSUED BY THE LOCAL AUTHORITIES. STAY IN A SAFE PLACE UNTIL YOU RECEIVE INFORMATION FROM THE AUTHORITIES THAT THE TSUNAMI THREAT HAS PASSED*



# Advice and Guidance i.e. evacuation



## TEW News Update SOP

### Actions

- Analyse the Warning Info
- Prepare TEW News
- Brief the broadcaster
- Relay live broadcast informing the updates from TEW bulletin 2, 3.1 – 3.n, and 4:
  - Earthquake info (magnitude, date and time)
  - Warning Level
  - Estimated time of arrival
  - Location





Via Fax / E-mail

.....BMKG.....BMKG.....BMKG.....BMKG.....BMKG.....

Indonesian Tsunami Early Warning System (InaTEWS)  
 METEOROLOGICAL CLIMATOLOGICAL AND GEOPHYSICAL AGENCY  
 Address: Jl. Angkasa I no.2 Kemayoran, Jakarta, Indonesia, 10720  
 Telp.: (+62-21) 4246321/6546316, Fax: (+62-21) 6546316/4246703  
 P.O. Box 3540 Jkt, Website : http://www.bmkg.go.id

Issued date: 11 April 2012, 18:15:03 WIB (UTC=WIB-7)  
 Bulletin-3  
 No.:113/warning/InaTEWS/IV/2012

UPDATING OF EARTHQUAKE PARAMETERS::

Magnitude : 8.3 RS  
 Date : 11-Apr-2012  
 Origin Time: : 08:38:35 WIB  
 Latitude : 2.33 N  
 Longitude : 93.05 E  
 Depth : 10 Km  
 Location : Off West Coast of Northern Sumatra  
 Remarks : 396 km SOUTHWEST Meulaboh  
 435 km SOUTHWEST Banda Aceh  
 465 km SOUTHWEST Sigli  
 467 km SOUTHWEST Sabang  
 514 km SOUTHWEST Bireun

Evaluation:

Based on sea level observations, tsunami has detected in the following areas:

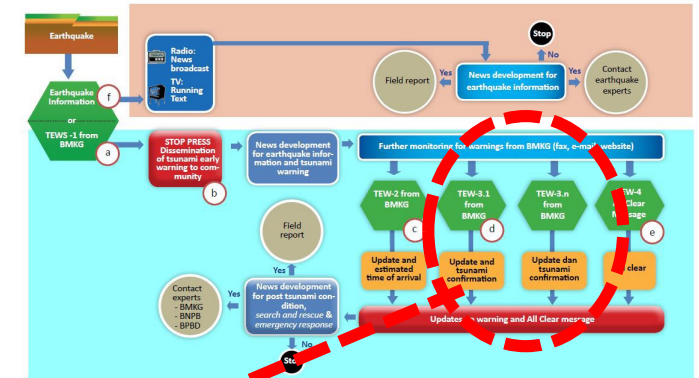
Location	Latitude	Longitude	Time[UTC] [HH:NN]	Date [YYYY-MM-DD]	Height
SABANG	05.80	95.00	10:00	2012-04-11	0.06 meter
MEULABOH	04.32	96.22	10:04	2012-04-11	0.8 meter

Information that tsunami waves had been observed indicating location, wave height and arrival time

BERPOTENSI TERJADI TSUNAMI DI WILAYAH:

Province	Warning Segment	Warning Level	ETA [WIB]	Date [YYYY-MM-DD]
NAD	Simeulue Pulau Simeulue	MAJOR WARNING	16:00:20	2012-04-11
SUMUT	Nias Bagian Barat	MAJOR WARNING	16:16:50	2012-04-11
SUMUT	Nias-Selatan Pulau Nias	MAJOR WARNING	16:21:54	2012-04-11

Be aware of the possibility that the status levels in each area may change from Advisory to Warning or Major Warning, or vice-versa



# TEW News Update SOP

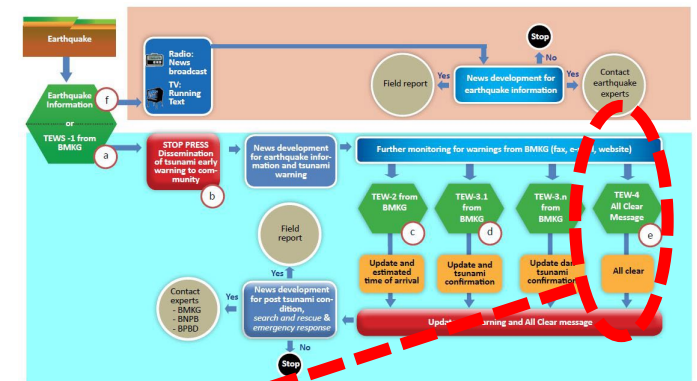
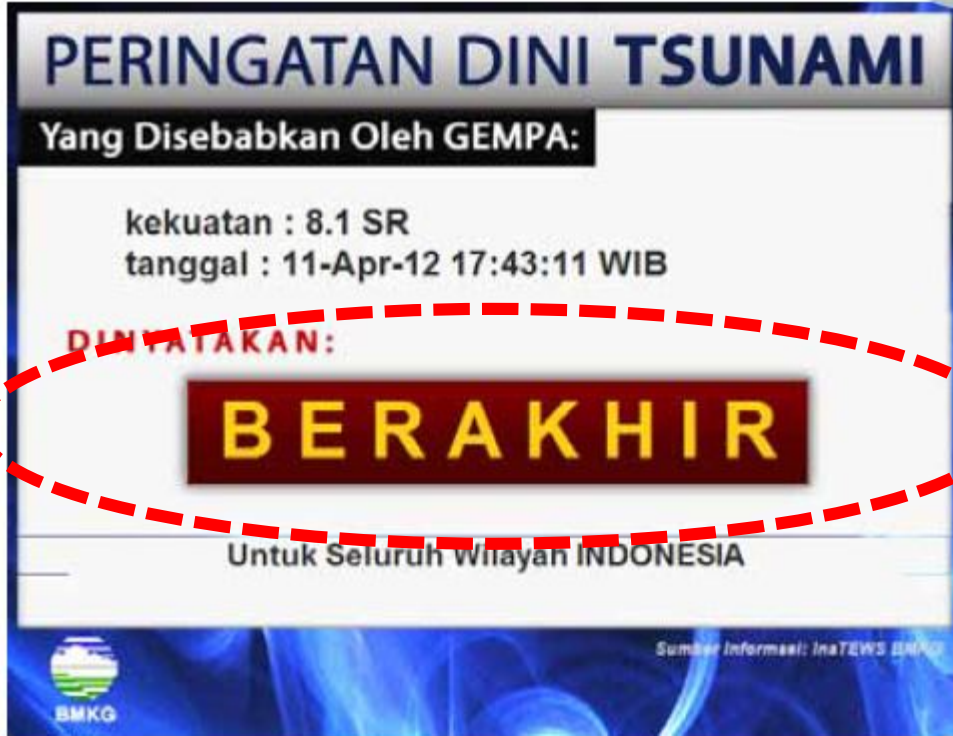
(Update – Bulletin 3.1 – 3.n)

## Action

- Analyse the Warning Info
- Prepare TEW News
- Prepare TEW Advice and Guidance
- Brief the broadcaster
- Relay live broadcast informing the updates from TEW bulletin 3.1 – 3.n:
  - Update Earthquake info (magnitude, date and time)
  - Warning Level
  - Estimated time of arrival
  - Location
  - Impacted Area
    - Location
    - Time
    - Height

# TEW-4

Via WRS for TV Stations



## TEW News Update SOP

(Update – Bulletin 4: no more threat)

### Actions

- Analyse the Warning Info
- Prepare TEW News
- Prepare TEW Advice and Guidance
- Brief the broadcaster
- Relay live broadcast informing no more tsunami threat
- Continue with information not safe to return
- Prepare for Post Tsunami News and Reporting

# Thank you



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***IOC/UNESCO Indian Ocean Tsunami Information Centre  
IOTIC-BMKG Programme Office***

***Disaster Risk Reduction and Tsunami Information Unit  
UNESCO Jakarta Office***

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