

Recent Situation & Potential Landslides areas associated with NE monsoon

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Recent Landslide Situation in the country

- Based on Met. Dept. forecast and real time rainfall data
 - NBRO started issuing landslide early warnings from **13th October 2022** onwards with constant updates up to date.
 - Many minor incidents have been recorded throughout the country (total incidents-91)
 - A few fatal ones occurred during the intense rains that fell **on 14th (71.50mm/hour) and 31st October 2022.**

Major Incidents

- One fatal incidents in Kegalle District
- A slope failure occurred on 14th October 2022 in Mainoluwa area in Thambaliyadda GND of Warakapola DSD. 02 deaths, 01 injured and One house completely destroyed.



Recent Incidents

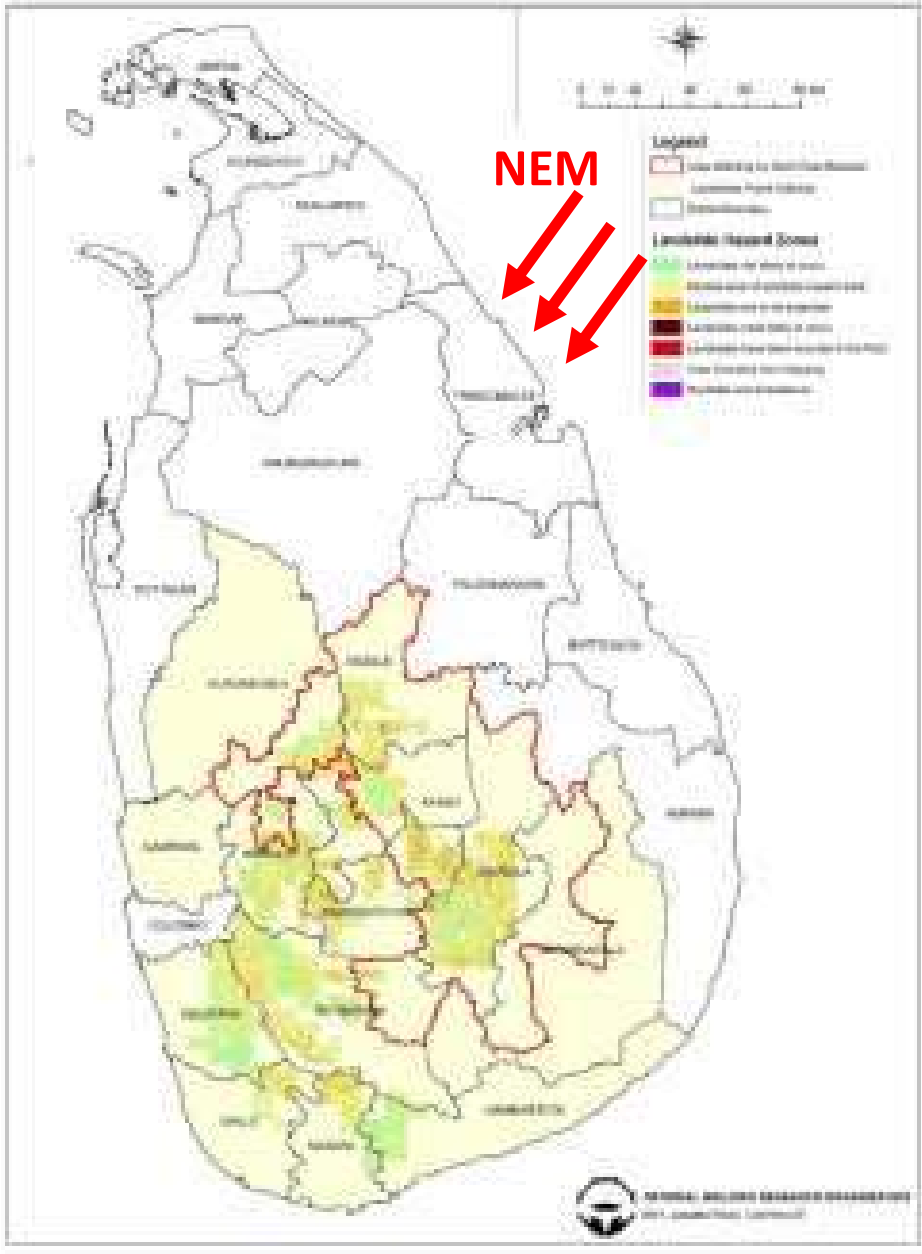
- Retaining wall collapsed on 31st October 2022 in Bandarawela DSD of Badulla District.
- 1 deaths and 3 injured, One house partialy destroyed



- Slope failures occurred on 08th November 2022 in NTS of Kandy Hospital premises.



DISTRIBUTION OF LANDSLIDE HAZARD ZONES (SCALE - 1:10000) WITHIN THE NORTH EAST MONSOON AREA



Provinces : Central, Uva, part of North Western and Sabaragamuwa.

Districts and respective DS divisions

1. Badulla : All DSD's -Sorاناتota, Haliela, Passara, Lunugala, Kandaketiya, Meegahakiula, Ella, Welimada, Bandarawela, Haldummulla, Uvaparaganama, Haputhale, Rideemaliyadda, Mahiyanganaya.

2. Monaragala : Monaragala, Badalkumbura, Medagama, Bibile, Wellawaya.

3. N-Eliya District: Walapane, Hanguranketha.

4. Matale District: All DSD's - Ambanganga Korale, Dambulla, Galewela Laggala-Pallegama, Matale, Naula, Pallepola, Rattota, Ukuwela, Wilgamuwa Yatawatta

5. Kurunegala: Mallawapitiya, Mawathagama, Rideegama, Polgahawela, Ibbagamuwa, Alawwa, Narammala.

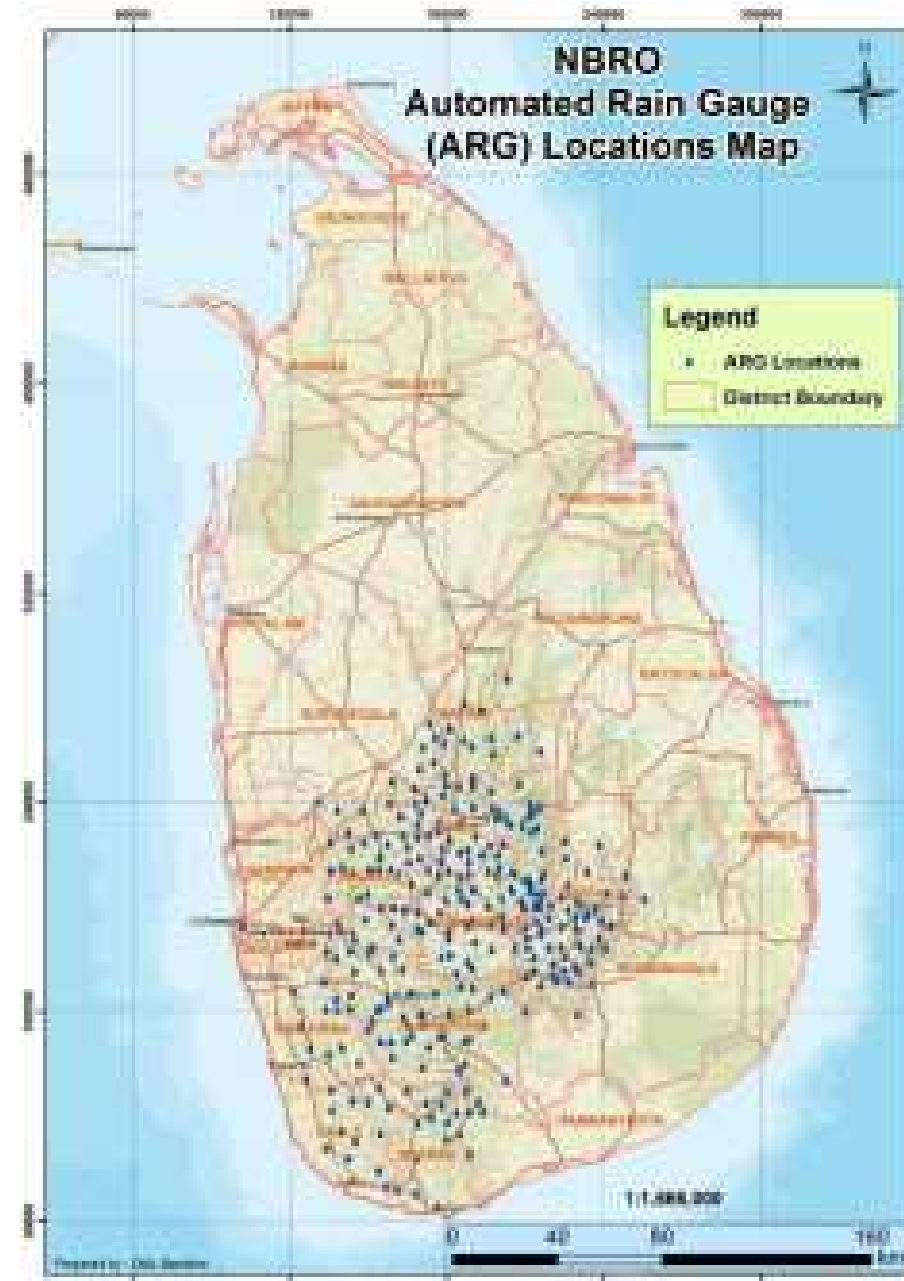
6. Kandy District: Ududumbara, Hasalaka, Medadumbara, Kundasale, Panwila, Deltota, Pathadumbara, Akurana, Harispatthuwa, Gangawatakorale, Patahewaheta,

7. Kegalle: Slight effect- Kegalle, Galigamuwa.

8. Ratnapura: Balangoda, Imbulpe, Weligepola, Kaltota.

NBRO readiness

- Landslide EW will be issued based on short range forecasts issued by Met Dept and real time rainfall data received from **328** automated rain gauges located around the Central Highland of the country. EWC will be operated 24/7.
- EW will be issued to DMC for dissemination to the relevant authorities and communities.
- CBEW group will be coordinated and encouraged for self evacuation whenever possible and necessary.
- Field investigations of landslide susceptible/potential sites for complying with complains by public/Govt. authorities will be carried out by field staff allocated in **each district**.



Warning and Evacuation in Sri Lanka

Defined standard threshold limits of the Rainfall for landslides

Watch

75 mm/day

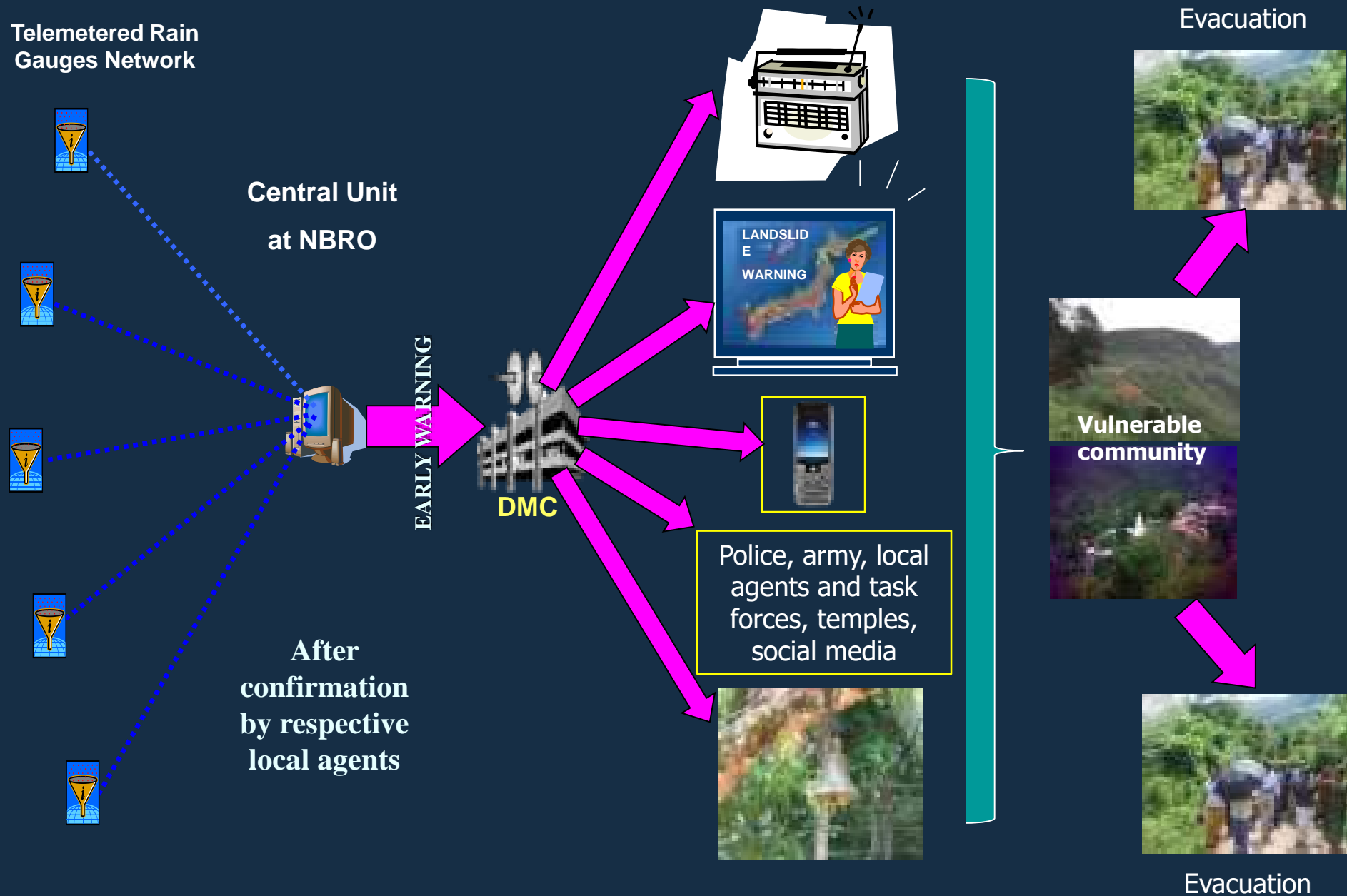
Alert

100mm/day

(Get ready to evacuation under short notice)

Evacuation, Off limit 75 mm/hour or 150mm/day

General Landslide Early Warning and dissemination System Based on Rainfall



Community Based Approach



Field Investigation of Landslides

Identification by direct observation of slope instability signs. Site specific investigation approach is used to identify potentially unstable locations. Decisions are mostly subjective and accuracy depend on the experience of the expert involved.

FIRST MOVEMENT:
04.08.2022

SECOND MOVEMENT:
06.08.2022

POTENTIAL RISKS:

Failed soil mass blocking main road to
Nallathanniya.

Failed soil mass blocking Seethagangula
stream.



If you live near steep hills

What should you do???

- 1. Before Intense Storms**
- 2. During Intense Storms**
- 3. After Intense Storms**

1. Before Intense Storms

Become familiar with the land around you.

Watch the patterns of storm-water drainage on slopes near your home. Since drainage is a major problem, clear or advise to clear all drainage paths to facilitate free flow of storm water.

Watch the hillsides around your home for any signs of land movement.

Contact your local authorities to learn about the emergency response and evacuation plans for your area, and **develop your own emergency plans** for your family and business.

2. During Intense Storms

Stay alert and stay awake: Many landslide and debris flow fatalities occur when people are sleeping.

Listen for any unusual sounds that might indicate moving debris, such as trees cracking or boulders knocking together. So **be prepared to move quickly**. Don't delay! Save yourself, not your belongings.

If you are in areas susceptible to landslides and debris flows, **consider leaving**.

Be especially alert when driving: Watch the road for **collapsed pavement, mud, fallen rocks**, and other indications of possible landslides or debris flows.

3. After Intense Storms

Keep looking for signs that the land is moving.

Landslides can occur even few hours or days after an intense or antecedent storms.

What to do if you suspect immediate landslide danger!

Inform affected neighbors.

Make **notice and sign** boards.

Leave the area quickly.

Contact your local officers, DS or Police.

If you sense **strongly**, evacuate the area temporarily and contact a consulting agency for an investigation (DS, DMC or NBRO)

Apart from landslides and slope failures, cutting failures are a major threat. Inform and educate communities to minimize the use of areas close to unstable soil cuts, especially behind houses, pass quickly the roads sections with unstable cuts.



We have to aware and educate people to follow the above instructions and the advices issued by NBRO during rainy situations.

Thank You

