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# Early Warning Dissemination Mechanism in Sri Lanka

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*Assistant Director (Early Warning)*

*Disaster Management Center*

*Ministry of Disaster Management*

*Sri Lanka*

# ☐ **Institutional Arrangements**

# **Sri Lanka Disaster Management Act; No.13 of 2005**

- ✓ Provides a legal framework for Disaster Risk Management (DRM) in Sri Lanka
- ✓ Addresses Disaster Management (DM) holistically, leading to a policy shift from response based mechanisms to a proactive approach
- ✓ Measures have been taken to amend the act to address the DRM concerns after 05 years of implementation

# National Council For Disaster Management

Ministers in charge of

Social Services

Rehabilitation & Reconstruction

Home Affairs

Health

Science & Technology

Housing

Coast Conservation

Irrigation

Power

Defence



Ministers in charge of

Police

Finance

Land

Fisheries & Aquatic Resources

Foreign Affairs

Water Supply

Highways

Urban Development

Education

Environment

Economic Development

DMC

# Disaster Management Coordination Framework

- National Disaster Management Coordinating Committee
- District Disaster Management Committees
- Divisional Disaster Management Committees
- GN level Community Disaster Management Committees
- Sub Committees at GN Level

# **Early warning Systems**

# Preparation of SOPs

- Developed SOPs at National
- Developing SOP's for District, Divisional and Community Levels are in progress

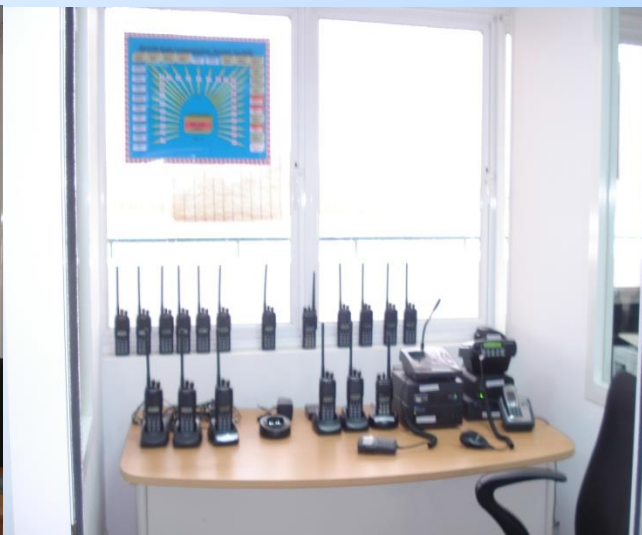
# Receiving Technical Information from Various Countries







## 24 x 7 National Emergency Operations Centre



# Methods of Dissemination

## ■ National Level

- TV Stations
  - Radio Station
  - Early Warning Towers
  - Police & Military Communication
  - Cell Broadcast/ SMS
  - Technical Devices
  - Satellite & Radio Communication (HF & VHF)
  - Telephones / CDMA/ GSM
- Early Warning Unit  
24 x 7 Emergency Operations Centre

## ■ Provincial / District Level

- Radio Communication
  - Telephones / CDMA/ GSM
  - Police & Military Communication
- Emergency Operations Centre  
Disaster management Coordinators

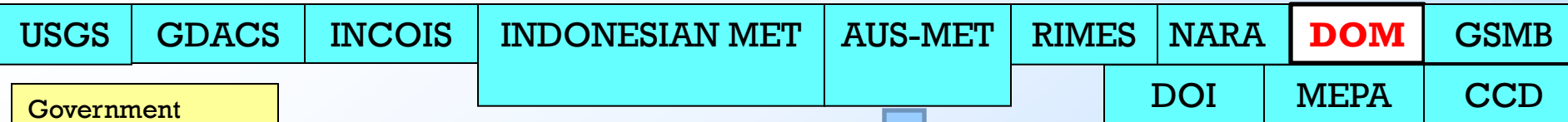
## ■ AGA Division / Village Level

- Telephones / CDMA/ GSM
  - Police Vehicles – Announcements
  - PA Systems
  - Sirens
  - Temple and church bells
  - Riders/ Push Bicycle & Motor Cycles/Messengers
- Early Warning Sub Committees/Teams  
NGOs and CBOs

# Multi-Hazard Early Warning Dissemination System

PTWC

Receiving Early Warnings



- Government Agencies, Critical Agencies & Stakeholders
- Police
- Media & General Public
- Military
- Regional & International Organizations
- UN System, INGOs, NGOs

**Dissemination of Warning**

Multi-Hazards Early Warning Dissemination Unit of the DMC

**Out Puts**

- Radio Comm
- SLT/ Dialog, SMS
- Fax
- Internet
- Satellite com
- Cell Broad. Police Com
- Military Com
- Warning Towers
- DEWN
- Media

24 Emergency Operation Center

District Disaster Management Committees  
Divisional Disaster Management Committees

Village level DM Committees

- Provincial Councils
- District Secretariats
- Divisional Secretariats
- Local Authorities
- Police Stations
- Hospitals
- Government Dpt.
- NGOs, CBOs

- Speaker Sys.
- Bells / Sirens
- Messengers
- Riders / Cyclers

## Early warning through Media.

### TV CHANNELS

- ITN
- RUPAVAHINI
- SIRASA TV
- DERANA TV
- SHAKTHI TV
- SWARNAVAHINI
- SIYATHA TV

NEWS WEB SITES  
SATELLITE TV

PEO TV NEWS BAR



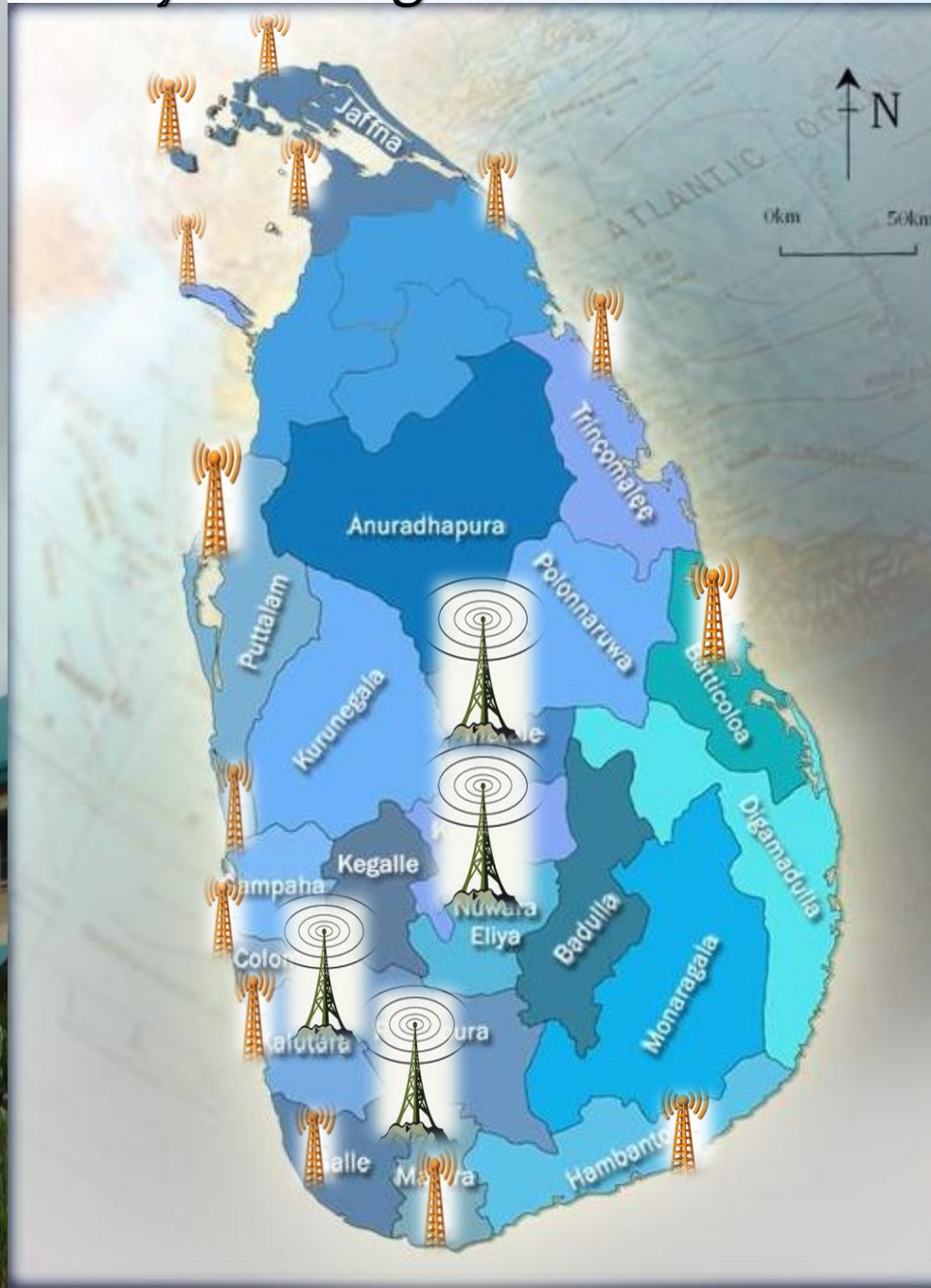
### RADIO CHANNELS

- SLBC
- LAKHADA FM
- SIRASA FM
- DERANA FM
- SRI FM
- SIYATHA FM
- KIRULA FM
- LAK FM
- RANGIRI DAMBULU FM

### NEWS ALERTS

- JNW NEWS ALERTS
- DERANA ALERTS
- LIVE @ 8 ALERTS

# Early Warning Towers



**77 Early Warning towers**

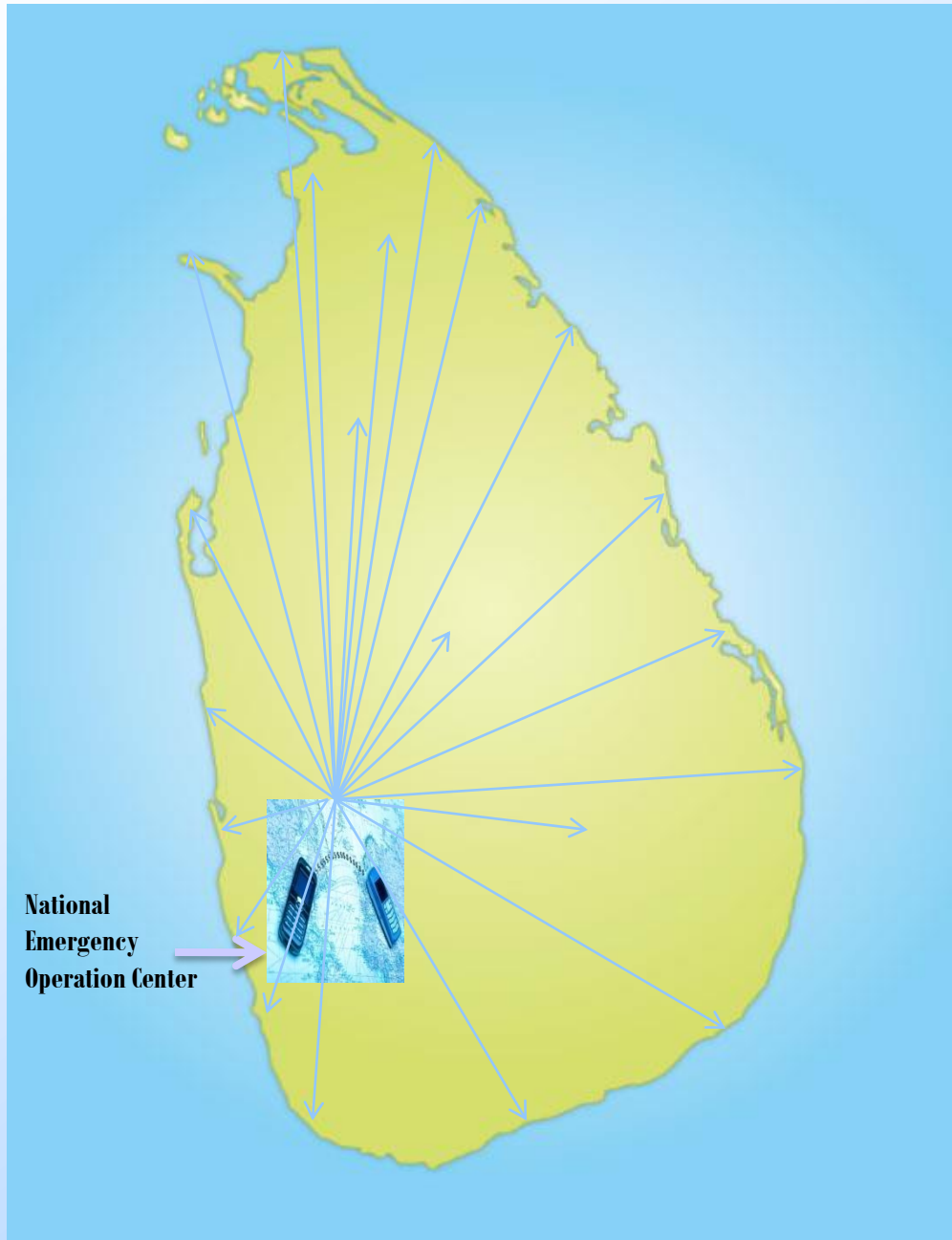


**Repeater Stations**



**EW Towers**

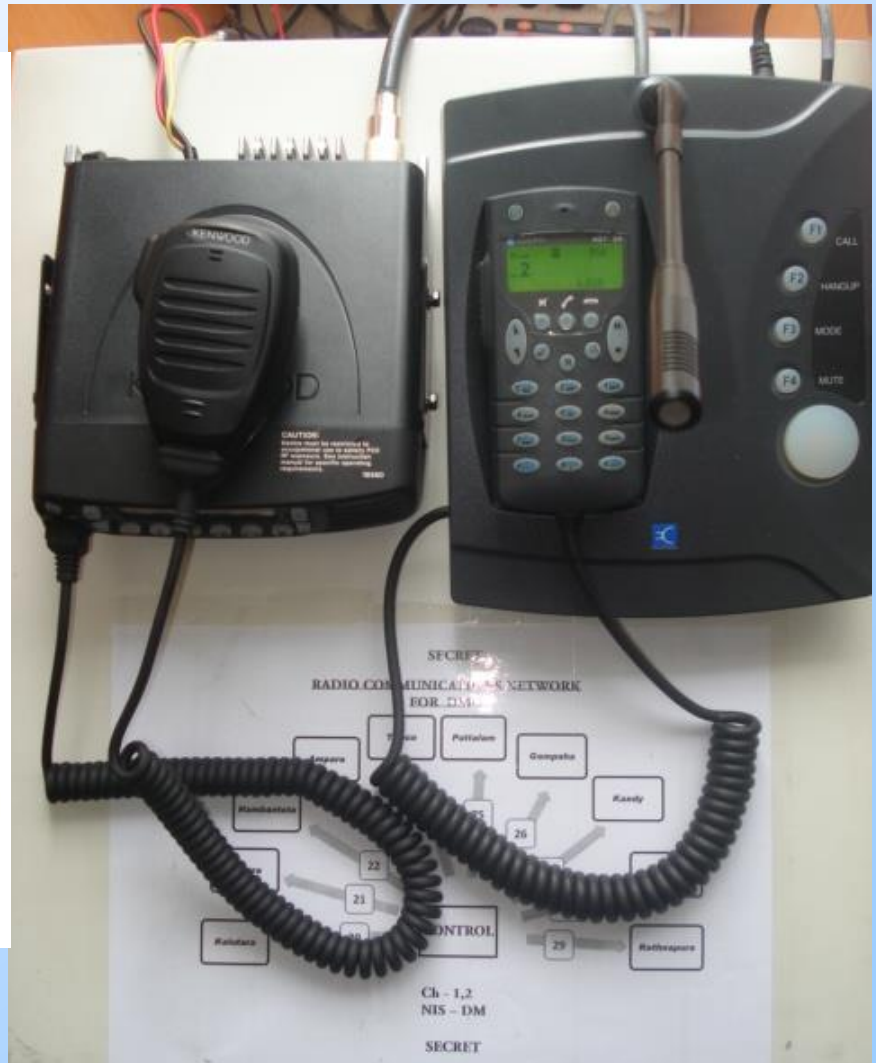
# VPN NETWORK



# Telephones

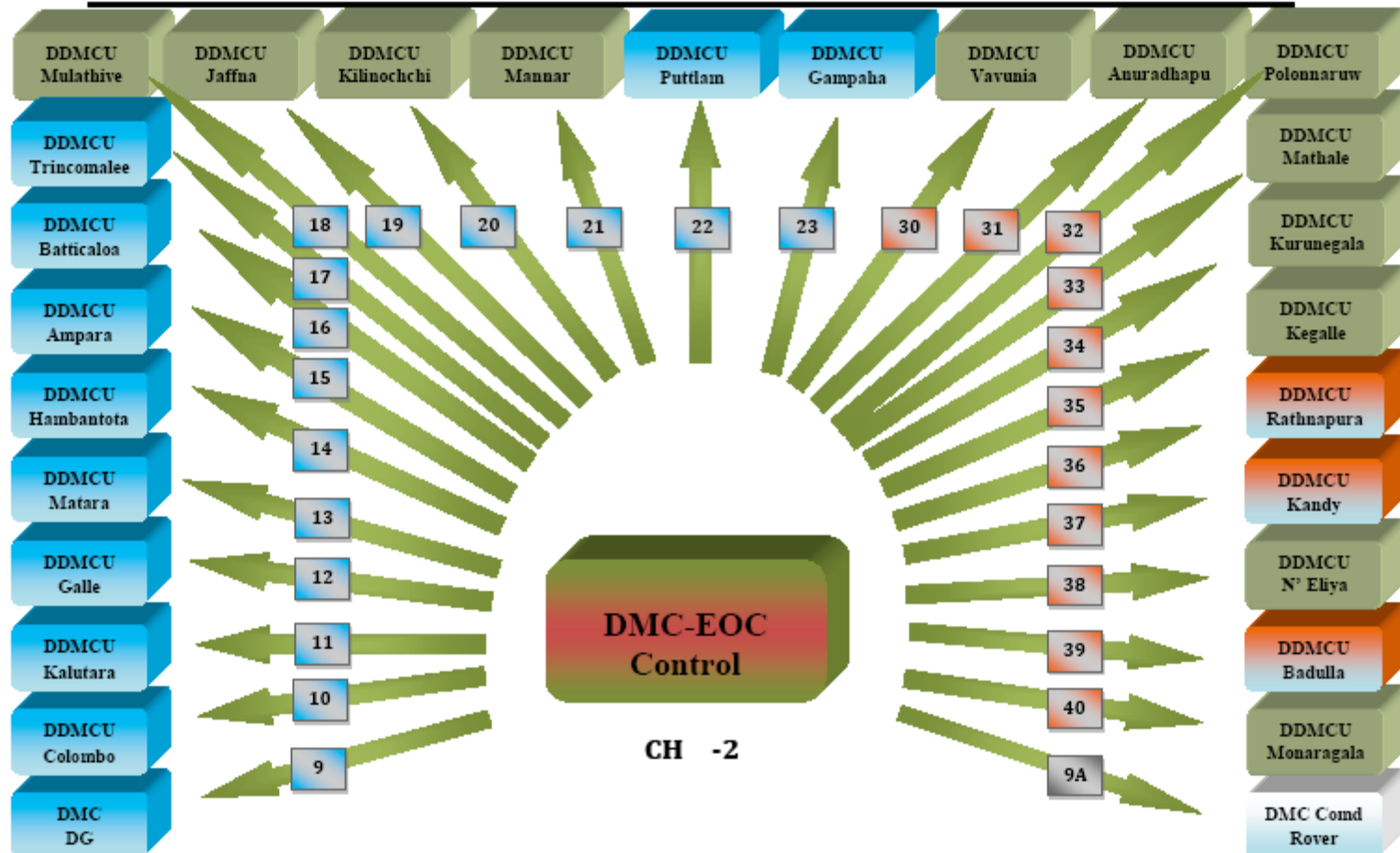


# HF /VHF Equipments





# HF/VHF-Radio Communications Network For DMC



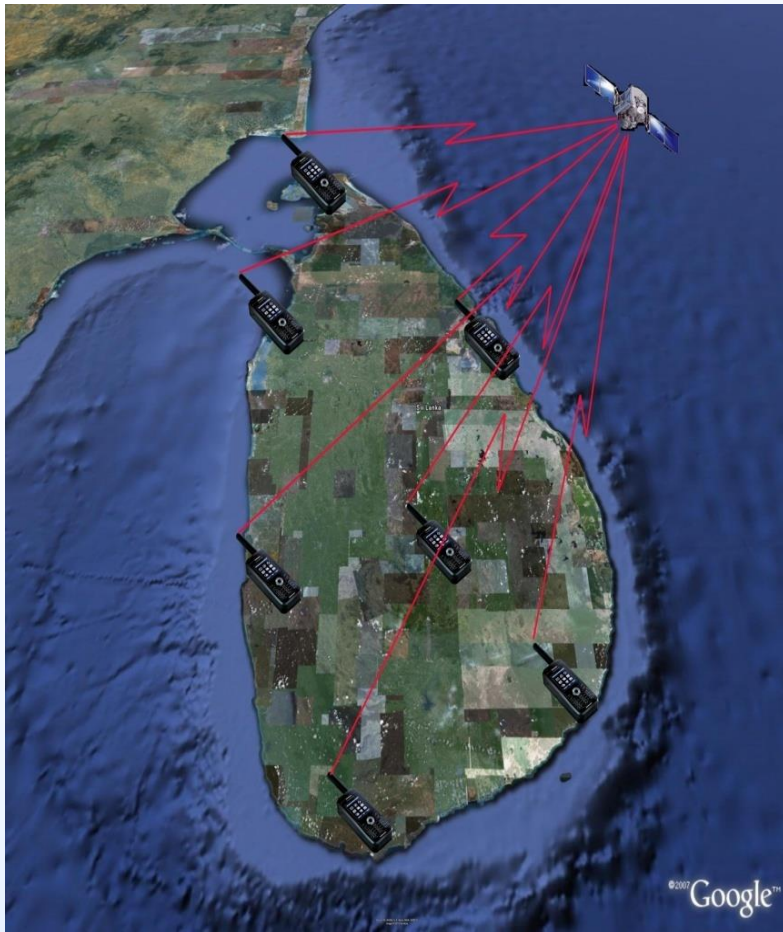
# Disaster Management Center provided VHF hand held's to 10 Media Agencies to communicate with DMC





# Satellite communication covering 25

# Districts



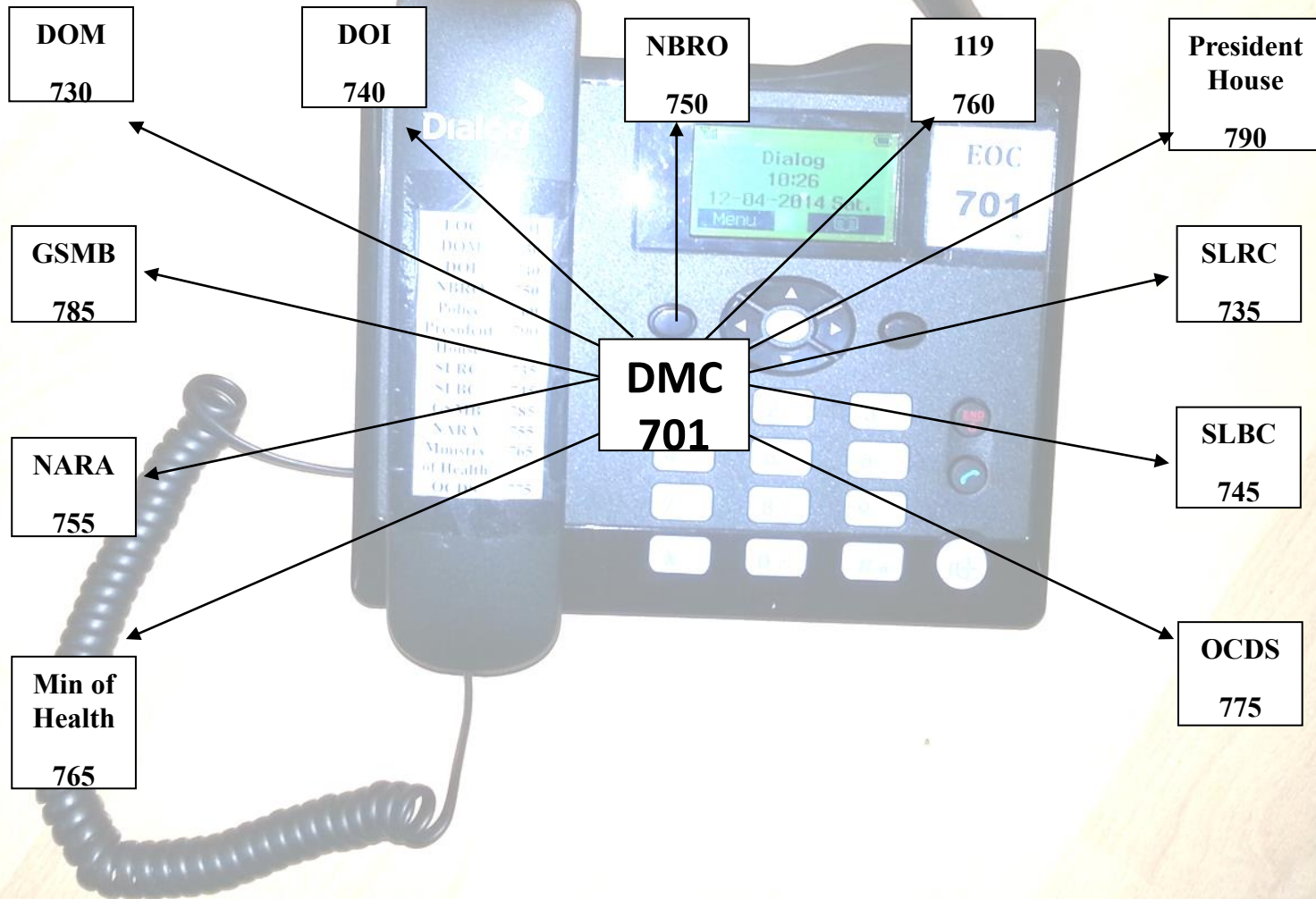
Hand Held

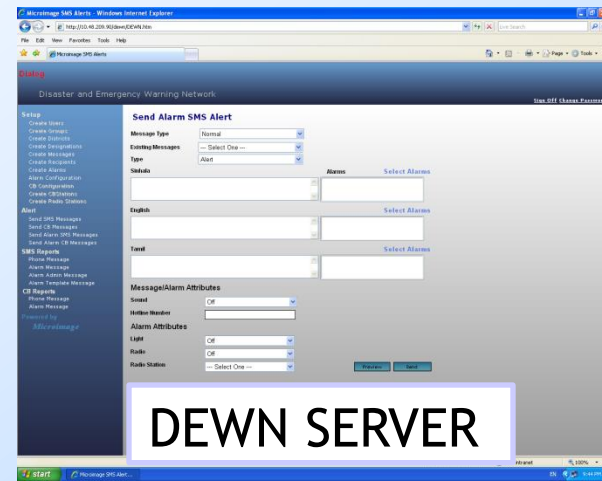


Desk Top

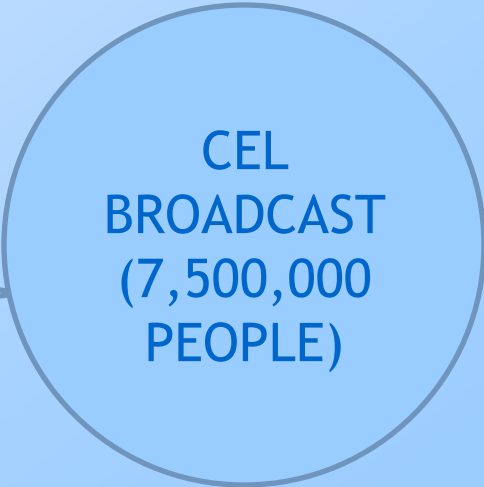
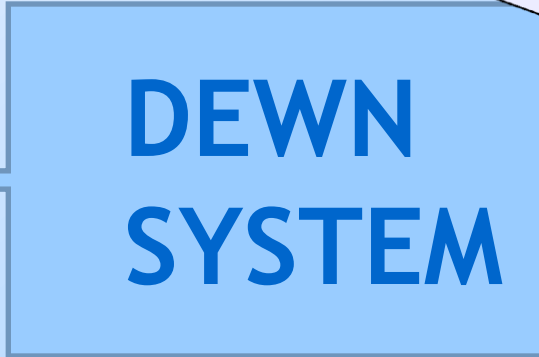
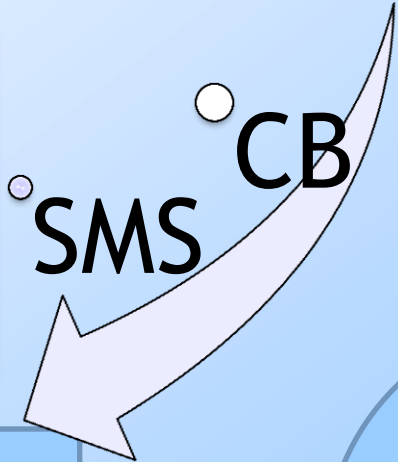
Thuraya  
Satellite  
phones

# Intra Government Network (IGN)

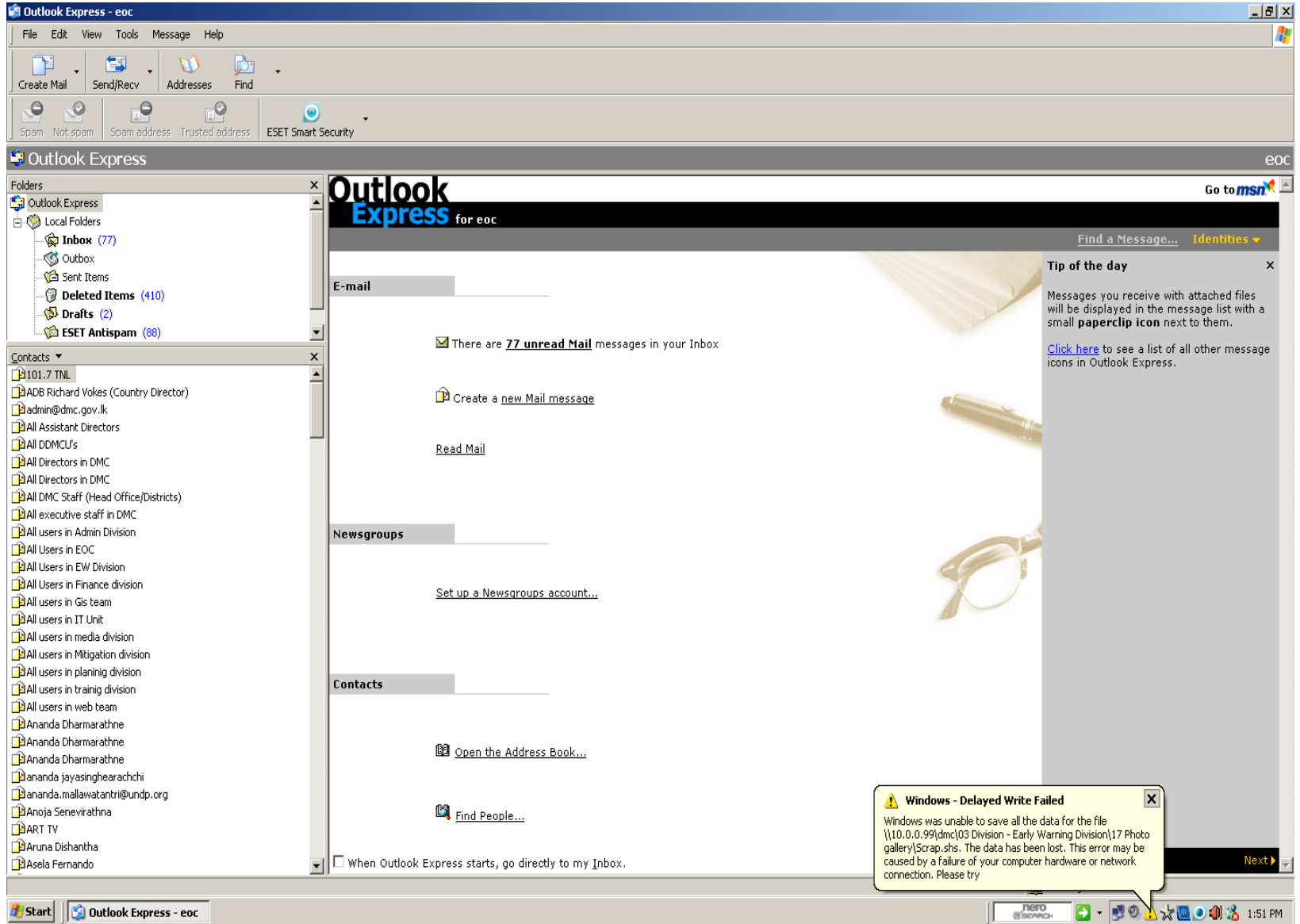




# Disaster Early Warning Network (DEWN)



# e-mail





# Disaster Management Center

Ministry of Disaster Management  
for Safer Communities & Sustainable Development in Sri Lanka

[Search](#) [Contact Us](#) [Site-Map](#)



- Home
- About DMC
- News & Events
- Disasters
- Projects
- Training & Learning
- Kidz Corner
- Tenders & Vacancies

Wed, Jun 30, 2010 at 9:11:11 AM

- This site is under maintenance

## Recent Disasters

- DMC Divisions
  - Mitigation & Technology
  - Preparedness Planning
  - Early Warning Dissemination
  - Emergency Operations
  - Training & Public Awareness

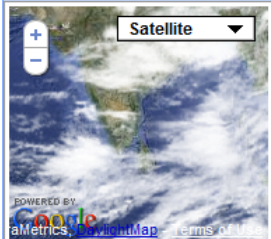
## National Safety Day

## National Platform

## DMC Symposium 2010

## Present Situation

- Situation Report
- Flood Inundation Map **NEW**
- Current Cloud Cover  
(Switch to Expanded View)



POWERED BY  
aMetrics, MyWeatherMap, Terms of Use

Gadgets powered by Google

- Situation Maps / Maps Gallery
- Local Weather Updates

## Our Vision, Mission & Objectives

- Global Disaster Related News
- DMC News

## Local News

**BAD WEATHER ADVISORY VALID FOR NEXT 24 HOURS FROM 0800 HOURS OF 11 June 2010. ISSUED BY EARLY WARNING CENTRE OF THE DEPARTMENT OF METEOROLOGY** (Posted on June 11, 2010, 06:37:29 AM)

Under the influence of atmospheric disturbance in the Bay of Bengal, Southwestern monsoon flow is strengthen. Windy weather will continue over most parts of the island with wind speed about 80km/hr along the Western slope of the central hills.

There will be showers at times in the Western, Sabaragamuwa, Southern and Uva provinces.

Showers accompanied by lighting activities can be expected in the Northern, Eastern, North central and Uva provinces.

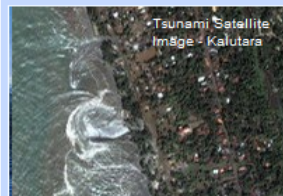
Sea areas off Southern and Western coasts will be windy arid rough. Fisher men are strongly requested to listen to weather advisories as the sea conditions are fairly rough.

[Full Story](#) | 9 views

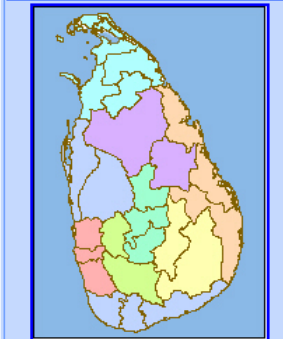
**The NDMCC members came forward in 'Flood Relief'** (Posted on June 04, 2010, 06:48:57 AM)

Disaster Management Centre (DMC) of the Ministry of Disaster Management took immediate steps to respond to floods and provided immediate relief through the district secretaries. With the increasing flood damages, Ministry of Disaster Management requested assistance from the members of the National Disaster Management Coordinating Committee (NDMCC) to provide immediate relief for the affected. Many NDMCC members responded immediately by providing food stuff, non-food relief items and other essential items needed for immediate recovery interventions.

[Full Story](#) | 32 views



## District Sections



## What's New





# Mega Phone & Public Addressing Systems





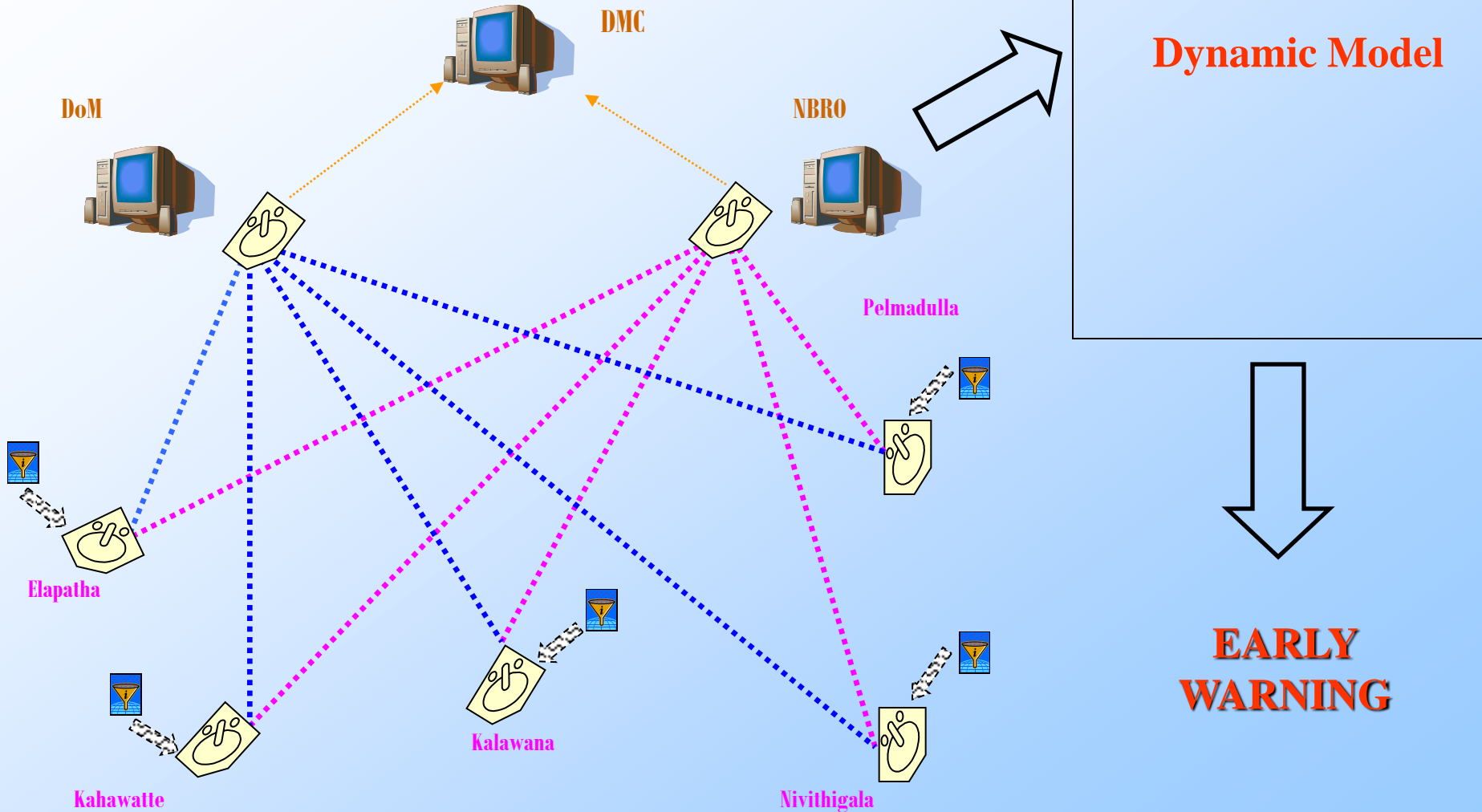
## Electric and Manual Sirens

## Traditional Methods



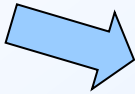
# Landslide Early Warning System Diagram

## Automatic Rainfall Measurement System



# Community level Last-mile dissemination

Electronic media



DEWN

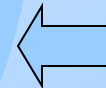


Messengers/Runners  
Motor cyclists/Cyclists  
/Three Wheelers  
Sirens/Bells  
Speaker systems in  
villages  
Telephone/Mobiles  
Police vehicles with  
speakers  
Hand held VHF set

RADIO



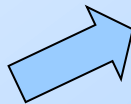
E-Communication



Warning  
Towers



Telephones  
Mobile/SMS



**Use of Military and Police in  
Tsunami  
Warning and Evacuation**

**EOC-DMC**

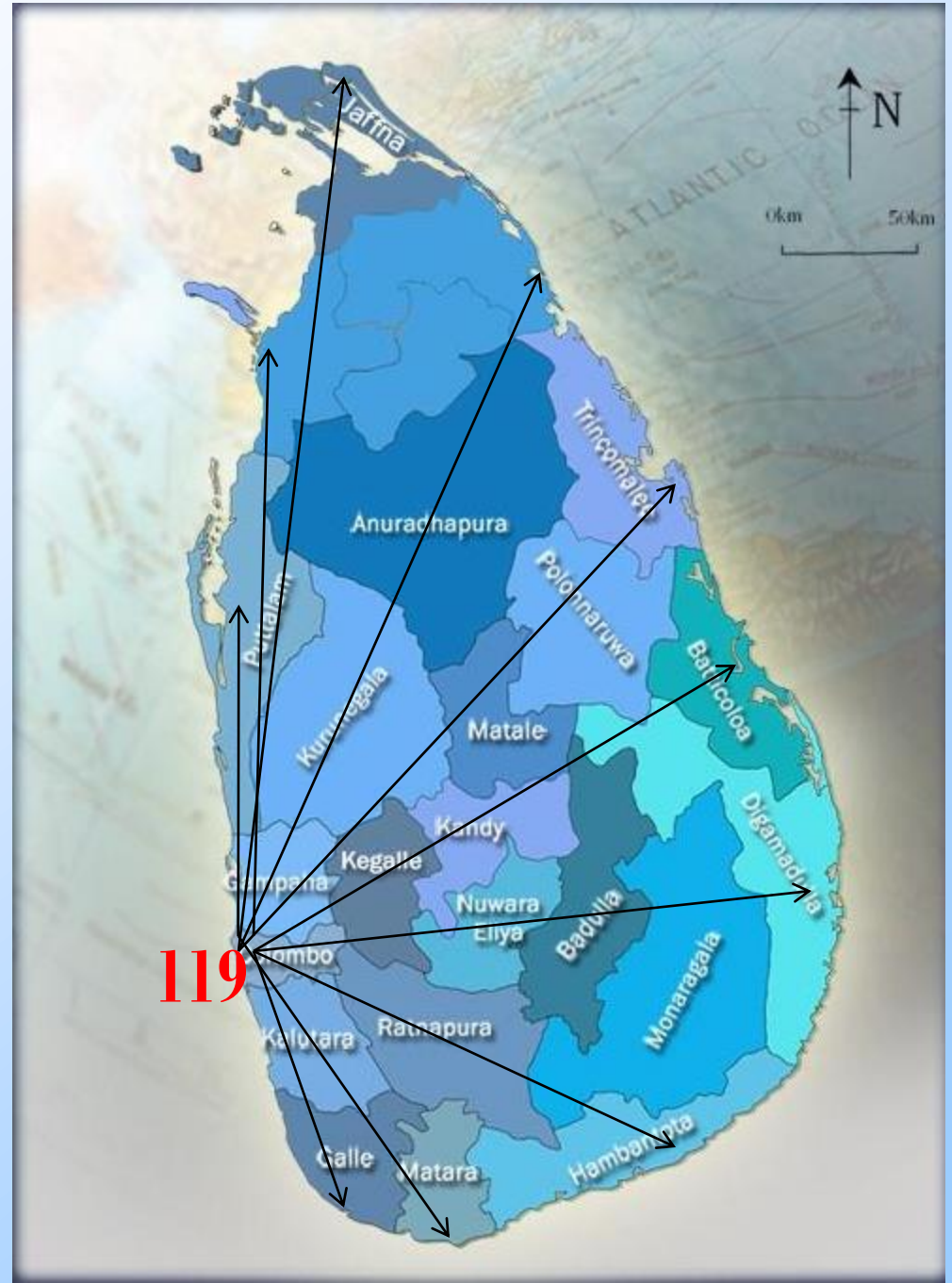


**119 Mirihana**



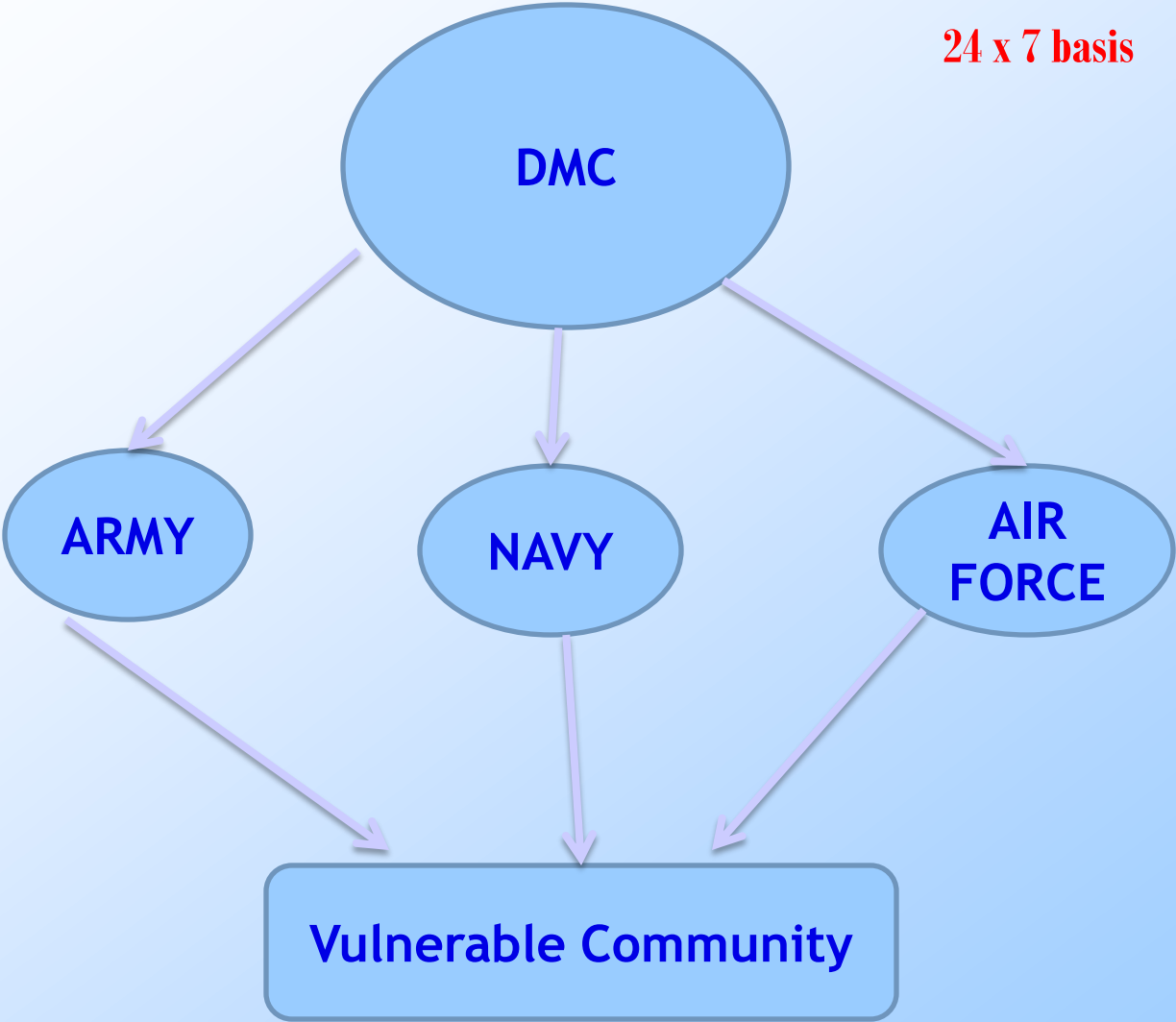
**All Coastal  
Police Stations**

**Use of Police in  
Tsunami  
Warning and  
Evacuation**



# Early Warning System with Military

24 x 7 basis



# Disaster Information

- Gramaniladhari



- Divisional Secretary



- District Secretary



- Disaster Management Centre

Relief, Emergency response, Mitigation, etc





**දෛනික තත්ව වාර්තාව - දි. 04.12 / நாளாந்த நிலைமை அறிக்கை - இலங்கை / Daily Situation Report - Sri Lanka**  
 දිනය / திகதி / Date / : 12 April 2014 at 1800 hrs



ලේකම් - ජනාධිපති ලේකම් කාර්යාලය / செயலாளர் - ஜனாதிபதி செயலகம் / Secretary to H.E. the President  
 ලේකම් - රාජ්‍ය ආරක්ෂක හා නාවික සංවර්ධන අමාත්‍යාංශය / செயலாளர் - பாதுகாப்பு அமைச்சு / Secretary, Ministry of Defence  
 ලේකම් - මහා සංස්ථාපති / செயலாளர் - திறைசேரி / Secretary to the Treasury  
 ලේකම් - ආපදා කළමනාකරණ අමාත්‍යාංශය / செயலாளர் - அனர்த்த முகாமைத்துவ அமைச்சு / Secretary, Ministry of Disaster Management  
 ආපදා කළමනාකරණ රජු අමාත්‍යාංශයේ පුද්ගලික ලේකම් /கௌரவ அனர்த்த முகாமைத்துவ அமைச்சரின் பிரத்தியோக - செயலாளர் / Private Secretary to the Hon. Minister of Disaster Management  
 ආපදා කළමනාකරණ රජු අමාත්‍යාංශයේ පුද්ගලික ලේකම් /கௌரவ அனர்த்த முகாமைத்துவ பிரதி அமைச்சரின் பிரத்தியோக - செயலாளர் / Private Secretary to the Hon. Minister of Disaster Management

පළාත / மாகாணம் / Province	#	දිස්ත්‍රික්ක / மாவட்டம் / District	ආපදා / அனர்த்தம் / Disaster	දිනය / திகதி / Date	ප්‍ර.ව. පි. / பிர.வ. பி. / S Division	අලුත් ලක්ෂ්‍ය / பாதிக்கப்பட்ட / Affected		මිය ගිය / இறப்பு / Deaths	අලුත් ලක්ෂ්‍ය / காயமடைந்தோர் / Injured People	අතුරුදහන් / காலமானவர்களும் / Missing People	නිසේද / சினை / Houses Damaged		සර්වසාම ස්ථාන / பாதுகாப்பான இடம் / Safe Location			විදේශීය / විදේශීය / Remarks	
						පවුල් / குடும்ப / Families	අලුත් / இறந்த / People				පුළුල් / முழு / Fully	අර්ධ / பகுதிய / Partially	සංඛ්‍යාව / எண் / Nos	පවුල් / இறந்த / Families	අලුත් / இறந்த / Persons		
Western / மேல் / மாகாணம் / Province	1	කොළඹ / කොළඹ / Colombo	අධි සුළං / අධි සුළං / High Wind	2014.04.10	Seethawaka	32	150	0	0	0	0	32	0	0	0		
		දිස්ත්‍රික්ක / மாவட்டம் / District Total					32	150	0	0	0	0	32	0	0	0	
		පළාත් / மாகாணம் / Province Total					32	150	0	0	0	0	32	0	0	0	
දකුණු / දකුණු / மாகாணம் / North Central	2	අනුරාධපුර / අනුරාධපුර / Anuradapura	අධි සුළං / අධි සුළං / High Wind	2014.04.10	Nuwaraagani Palatha (East) / Minnitale							2					
		දිස්ත්‍රික්ක / மாவட்டம் / District Total					0	0	0	0	0	0	11	0	0	0	
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දකුණු / දකුණු / மாகாணம் / Northern	3	වවුනියා / වවුනියා / Vavuniya	අධි සුළං / අධි සුළං / High Wind	2014.04.10	Vavuniya	16	57					9					
		දිස්ත්‍රික්ක / மாவட்டம் / District Total					16	57	0	0	0	0	9	0	0	0	
		පළාත් / மாகாணம் / Province Total					16	57	0	0	0	0	9	0	0	0	
දකුණු / දකුණු / மாகாணம் / Southern	4	හම්බන්තොට / හම්බන්තොට / Hambantota	ඵලි ගිනි / ඵලි ගිනි / Fire	2014.04.12	Sooriyawawa		2		2		1					Due to fire occurred at a fuel bowser	
		දිස්ත්‍රික්ක / மாவட்டம் / District Total					0	2	0	2	0	1	0	0	0	0	
		පළාත් / மாகாணம் / Province Total					0	2	0	2	0	1	0	0	0	0	
මධ්‍යම / මධ්‍යම / மாகாணம் / Central	5	දොලුව / දොලුව / Doluwa	අධි සුළං / අධි සුළං / High Wind	2014.04.12	Doluwa							11					
		දිස්ත්‍රික්ක / மாவட்டம் / District Total					0	0	0	0	0	0	11	0	0	0	
		පළාත් / மாகாணம் / Province Total					0	0	0	0	0	0	11	0	0	0	
<b>මුළු / மொத்தம் / GRAND TOTAL</b>						<b>48</b>	<b>209</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>63</b>	<b>0</b>	<b>0</b>	<b>0</b>		

தகவல் மூலம் Data Source - දිස්ත්‍රික් ලේකම් කාර්යාලය, மாவட்ட செயலகம் District Secretariats  
 மேலதிக அபராத தகவல்களுக்காக, For more information on emergency operations :  
 රාජ්‍ය විද්‍යුත් තැපෑල, සුදුසු 011 2670002

මධ්‍යම සන්නිවේදන මාධ්‍ය ප්‍රවේශීයයන්, Media Spokesmen :  
 සරත් ලාල් කුමාර මො. ජයරත්න කුමාර, Mr. Sarath Lal Kumara 077 3957897  
 ප්‍රදීප් කොඩිපිලි මො. ජයරත්න කුමාර, Mr. Pradeep Kodippili 077 2320530  
 අපදා කළමනාකරණ අමාත්‍යාංශය, அனர்த்த முகாமைத்துவ நிலையம் Disaster Management Centre  
 ගිණුම් අංක, தொலைபேசி, Hot Lines: 0112670002, 0112136136  
 ෆැක්ස්, தொலைநகல், Fax: 0112670079  
 විද්‍යුත් තැපෑල, மின்னஞ்சல் Email: eoc@dmc.gov.lk  
 වෙබ් අඩවිය, இணையம், Web: www.dmc.gov.lk

Hiran Thakkarathana  
 Assistant Director  
 for Director General



Mon, Apr 14, 2014 at 5:52:28 AM

## Recent Disasters

### DMC Divisions

- Mitigation, Research & Development
- Preparedness Planning
- Emergency Operations
- Education & Public Awareness

### National Safety Day

### National Platform

### 4th National DRM Symposium 2012 Present Situation

- Situation Report
- Situation Maps
- Flood Inundation Map(Archive)
  - Current Cloud Cover  
(Switch to Expanded View)

- Maps Gallery
- Local Weather Updates
  - Dept of Meteorology
  - World Weather Inf. Service
  - Weather Underground
- Global Disaster Situation
  - General Alert Map
  - Gen. Alert2: Summary / Map
  - Pacific Tsunami EW
- Global View of Current Clouds

## Our Vision, Mission & Objectives

### Situation Report

#### Current Disaster Situation

#### Archives

- [Situation Report as at 1st April 2014 -18.00](#)
- [Situation Report as at 2nd April 2014 -09.00](#)
- [Situation Report as at 6th April 2014 -12.00](#)
- [Situation Report as at 7th April 2014 -12.00](#)

[Historical Disaster Information](#)



### DISASTER SMS ALERT

### Publications



Road Map for Safer Sri Lanka

[More](#)

### Plans/Reports

Annual Reports

[More](#)

Search Search

Disaster Information Management System in Sri Lanka

Query View data Charts Statistics Thematic Crosstab

**Query**

First you have to select disaster type. You can select one or more types of events from the list. If you DO NOT select any event, the query (report) will include ALL the events.

Then, select cause from this list. It will restrict the results to those events in which this cause is set.

Then select the geography levels(Province, districts and DS divisions) which you need information. Note that the lists of districts and DS divisions appear initially empty.

Then we have to enter Date using year, month and day. If you do not use date, then data records will be displayed from 1974 to upto date.

If you need to sort the result , then use " Sort Result by"

If you need to change no of records in the page, Please use "Record per page"

"New Query" button erases all the selections marked in the fields of the Query Window.

For advance selection, use " Expert " button. This is an optional.

Finally, use suitable tabs in the top of page View Data, Charts , statistics , Thematic or CrossTab.

Disaster type	Cause
EPIDEMIC	Acute FP
ANIMAL ATTACK	AIDS
FLOOD	Chicken pox
FIRE	Cholera
STRONG WIND	Crocodile
RAINS	Cutting Failure
DROUGHT	Cyclone
LANDSLIDE	Dengue
GALE	Diarrhoea
LIGHTNING	Diphtheria

Province	District	Division
Central		
Eastern		
North-Central		
Northern		
North-Western		
Sabaragamuwa		
Southern		
Uva		
Western		

Date range: (YYYY MM DD) From:    To:

Sort results by  RecordsPerPage

Expert Selection

Powered by: Engined by: Implemented by: Sponsored by:

# Future Plans in EW

- SLT Warning rings to Coastal Populations
- Extend the VHF communication to Divisional and most vulnerable GN Divisions.
- Enhance the EW systems and dissemination mechanism for the DAM safety.

# **Emergency Numbers**

**Emergency Operation Center**

**+9411 2 670002**

**+9411 2 136136**

**117-Emergency hotline- Call Centre**

**[www.dmc.gov.lk](http://www.dmc.gov.lk)**

**[eoc@dmc.gov.lk](mailto:eoc@dmc.gov.lk)**

**Thank You**