

South - West monsoon May 2018



Summary Situation Report

Sri Lanka

23rd May 2018 - 1000 hrs



**Disaster Management
Centre**



**DEPARTMENT OF METEOROLOGY
SRI LANKA**



**Department of
Irrigation**



**National Building
Research Organisation**



**National Disaster
Relief Services Centre**

Ministry of Irrigation and Water Resources & Disaster Management

SITUATION SUMMARY

- ◆ **A heavy rainfall was received across several parts of Sri Lanka between 20 and 21 May 2018, caused heavy rains and flash floods mainly in twelve districts, including Southern, Western, North-Western and Sabaragamuwa Provinces.**
- ◆ **Early-warning reached to the affected people and evacuations were done covering the people who are at risk . Search & rescue teams were pre-positioned and boats were kept as ready to launch in the affected districts. 557 military and police officials were mobilized immediately for search and rescue operations while 5,826 military and police personnel have been organized as stand-by teams for immediate deployment.**
- ◆ **84,943 people (18,542 families) have been affected (the Disaster Situation Report , DMC & National Disaster Relief Services Centre (NDRSC) at 1000 hours on 23rd of May 2018). NDRSC has provided 14.7 million cash allocations to the 12 District Secretaries to address the immediate needs of the affected populations.**
- ◆ **As per the immediate rapid impact analysis estimates, 23,000 people need emergency flood relief and early recovery assistance.**
- ◆ **River water levels at many stations are gradually decreasing, as the rainfall recorded in the catchments during the last 24 hours ending 0830 hours is lower compared to the rainfall received in 20th and 21st May 2018.**

CURRENT SITUATION

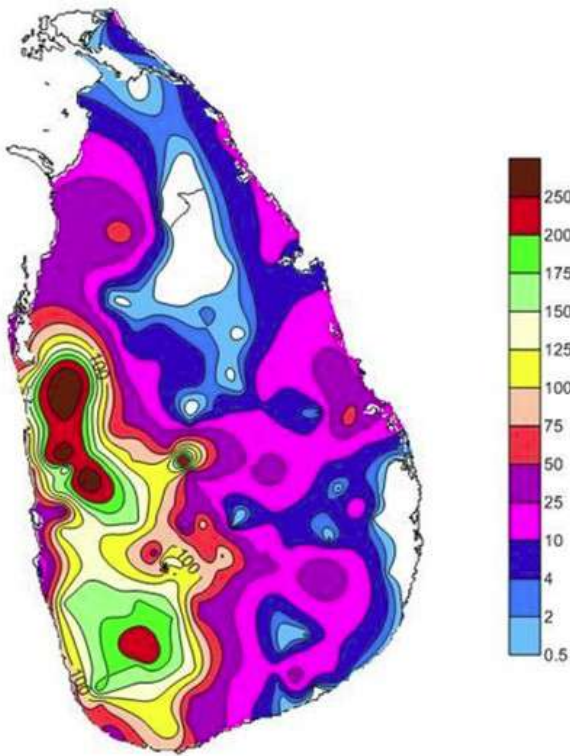
As per the Department of Meteorology, few places in Puttalam district received the highest rainfall received within the 24 hours ending at 0830 hours on 21 May 2018. Rainfall stations in Anamaduwa, Adigama and Kamalsram in Puttalam recorded rains above 300mm while, Anamaduwa received the highest rainfall of 353.8 mm of rain in 24 hours to early 21 May 2018. Moreover, many places received more than 100 mm of rain in 5 hours during 20 May, including Ratnapura which reported 222.5 mm and Eheliyagoda (Sabaragamuwa Province) with 201.5 mm.

Department of Meteorology highlighted last 18—24 hours rainfall observed in main stations ended on morning hours of 23rd May 2018 showing reduction of rainfall in many areas; in Trincomalee 52.6mm, in Batticaloa 43.5mm, in Badulla 29.5mm, Vavuniya 28.5mm. The highest rainfall recorded was around 72.7mm in Oddusudan in Mullative District. However, based on received rainfall since 22nd May 2018, rainfall has been reduced in catchment areas and affected areas and flood waters are receding, allowing response and relief services to be more effective.

Minister of Disaster Management, Hon Duminda Dissanayake has visited Kalutara area and State Minister of Disaster Management, Hon Palitha Range Bandara has visited Puttalam area together with Ministry and District officials to provide effective relief to affected people. Hon Minister, has left his office to Ratnapura today to observe the affected areas and provide immediate needs.

Dam leak was identified in Pulachchikulam tank in Puttalam District and settled with sand bags. Vijaya Katupotha tank and Waama-Eliya tank has been damaged due to massive rainfall during 21st May. A stability issue has been identified in the Kaduwela main bridge and Kaduwela-Biyagama road is temporarily closed.

FIGURE 01: Heavy rainfall received 24 hours ending at 0830 hours on 21 May 2018



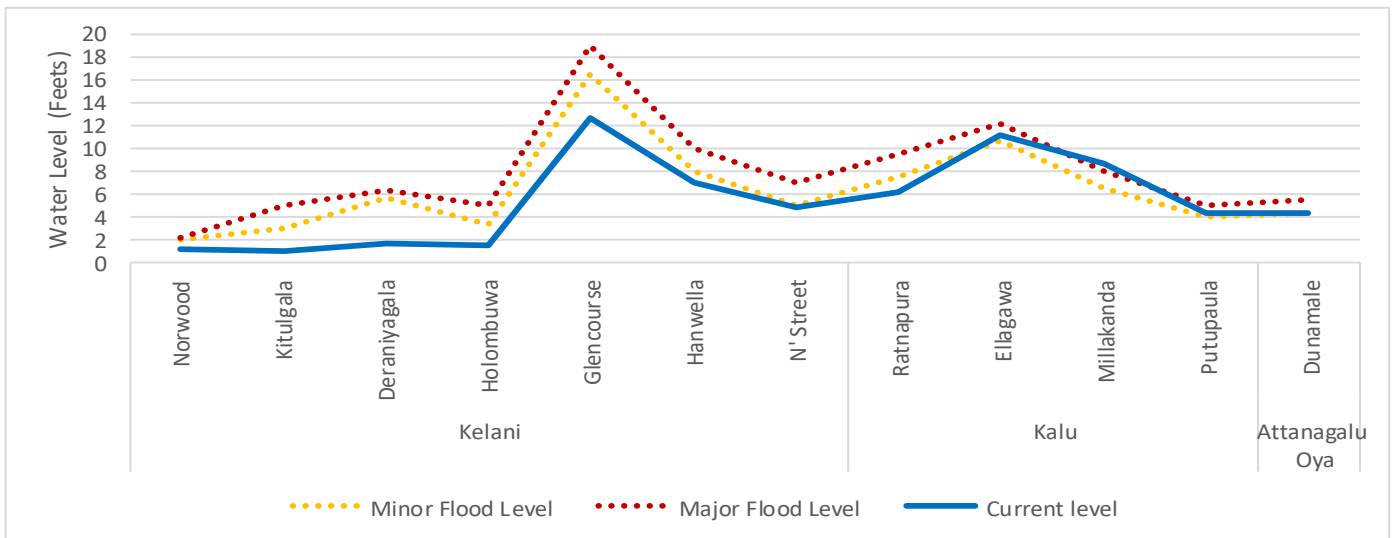
As a result of severe rains, 84,943 people (18,542 families) have been affected (the Disaster Situation Report , National Disaster Relief Services Centre (NDRSC) at 1000 hours on 23rd of May 2018). People at flood risk have been evacuated to safe locations and the total number of welfare centres. Approximately, 7,526 families have been evacuated into 194 welfare centres due to flood and landslide risks. As of now 10 deaths were reported to the Disaster Management Centre.

Department of Irrigation has indicated that several major river levels are decreasing as of 23 May 2018, at 0630 hours which were at flood levels earlier.

However, the recorded rainfall was minimal in the major river catchment areas during past 24 hours ending from 8 30 hours of 22 May 2018. Therefore, the flood levels will fade away gradually.

Source: Department of Meteorology

FIGURE 02: River water level, 0900 hours 23 May 2018

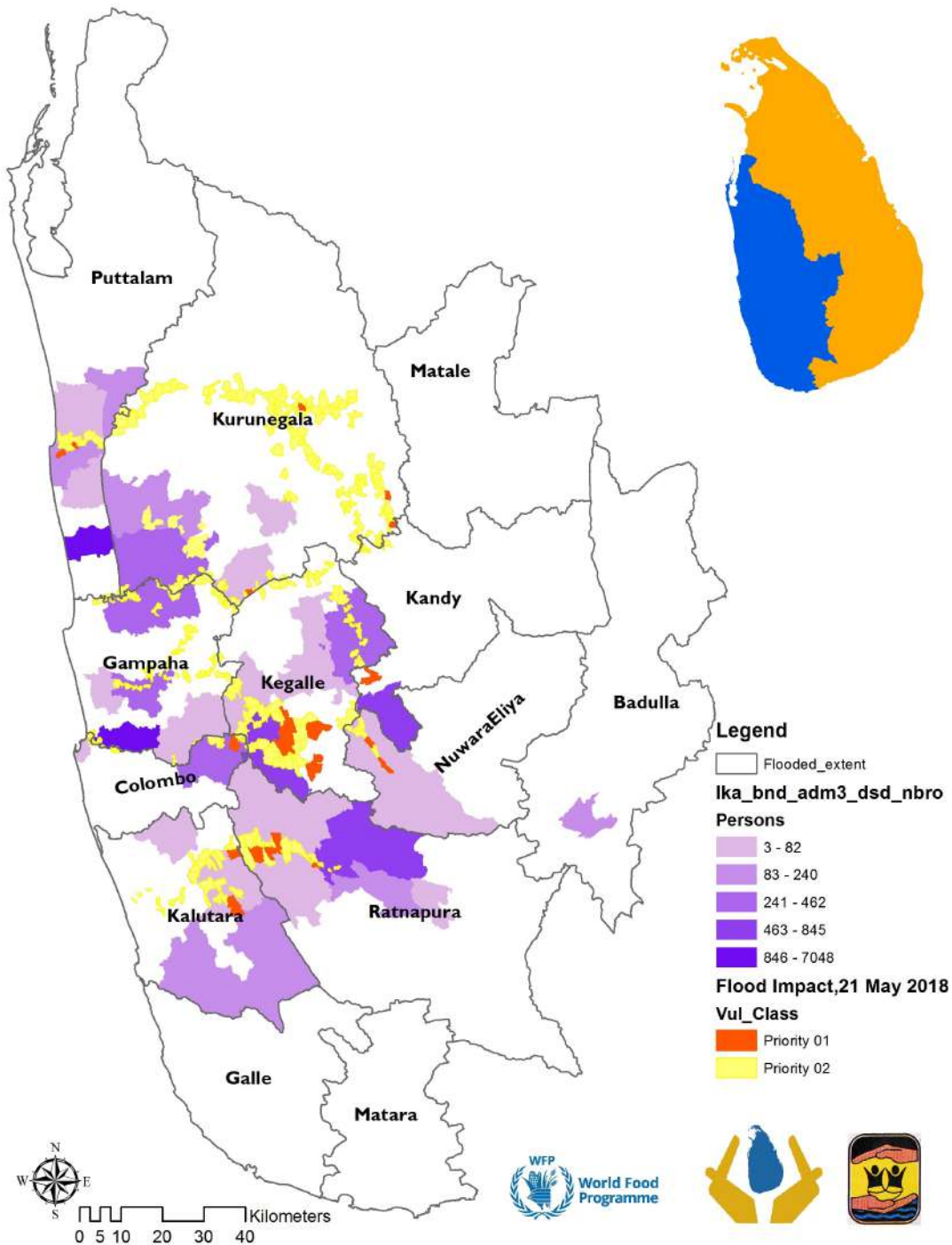


Source: Department of Irrigation

River gauges in Nilwala, Gin, Kalu, Kelani, Attanagalu-Oya, Ma-Oya, Mahaweli showing normal water levels

FLOOD STATUS AND FORECASTED IMPACT

FIGURE 03: Affected Districts and proposed prioritization for response, 22 May 2018 16 00 hours



ESTIMATED PRIORITY 01 using rapid impact assessment approach



Estimated 23, 470 People Severely affected and needs emergency assistance



Estimated Number of households at high risk— 447 houses

FLOOD RESPONSE AND RESCUE OPERATIONS

Table 01: Details of Tri Forces allocation to the emergency response

(Colombo, Matara, Galle, Kalutara, Ratnapura and Kegalle)

Deployed Forces:

SN	Tri Force	Officers	Others	Total
1	Navy	10	158	168
2	Army	23	366	389
3	Air force			
4	Police			
Total		33	524	557

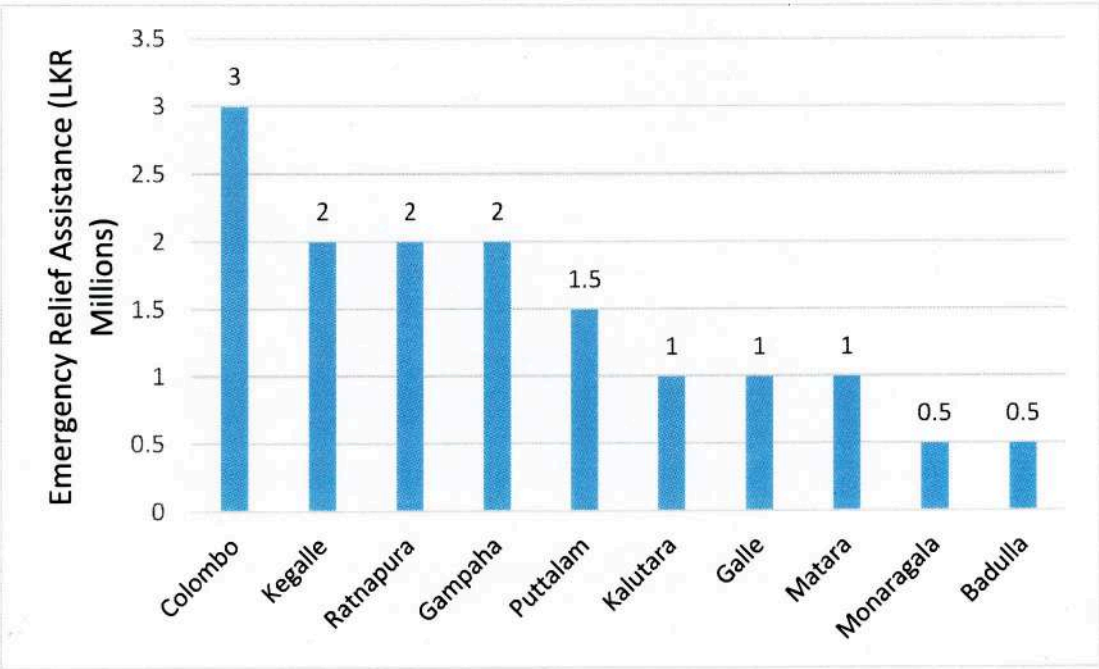
Stand by Forces:

SN	Tri Force	Officers	Others	Total
1	Navy	2	171	173
2	Army	179	5204	5383
3	Air force	9	261	270
4	Police	-	-	
Total		190	5636	5826

Resources allocation for the Police

S N	District	Engine Boat	Angul	Engine
1	Ratnapura	10	08	01
2	Kalutara	11	10	01
3	Galle	06	03	
4	Badulla	02	02	
5	Gampaha	05	05	02
6	Matara	03	05	
7	Colombo	13	06	01
8	Kegalle	01	01	
9	Puttlam	02		
10	Hambanthota	01		
11	Kurunegala	05	07	
Total		59	47	05

FIGURE 04: Disaster Relief Assistance advanced by NDRSC



NDRSC has allocated 14.7 Million Sri Lankan rupees to the most affected districts in order to assist the severely affected populations (See Figure 04).

Moreover, stocks of life Jackets, Boots, Raincoats, Sleeping sheets, and Blanket were mobilized to Kalutara and Ratnapura districts by DMC & NDRSC.

Report produced at the Disaster Management Centre (DMC)
Ministry of Irrigation, Water resources and Disaster Management

[Handwritten Signature]
23/5/18
Dr. S. Amalanathan
Director General,
Disaster Management Centre

SGD
Eng Sisira Kumara
Secretary, Ministry of Irrigation, Water Resources &
Disaster Management

List of Annexes

- I. Summary of the Situation
- II. Forecast by Department of Meteorology
- III. Water Level in Major Rivers (Dept of Irrigation)
- IV. Landslide Warning



Disaster Management Center
(DMC)

Ministry of Irrigation and Water resource & Disaster Management
Situation Report As at 1000 Hrs On 23rd of May 2018



National Disaster Relief Services Center
(NDRSC)

No	දිස්ත්‍රික්කය yaaw.L.L.ub District	පරිපාලන ප්‍රදේශය Division	අපද්‍රව්‍ය අනතුරු Disaster	අපද්‍රව්‍යය අරම්භ වූ දිනය Date of Commenced	විලෝමය		මිය යෑම් හැසිරීම් Deaths	අවංචිත අවංචිත අහිමිවීම් Injured persons	අතුරුදහන් අහිමිවීම් Missing Persons	නිසභ හානි		අවංචිත හානි Small,Medium Enterprises Damages	ඉතා වැදගත් වැදගත් වලට අහිමිවීම් Damages to critical infrastructure	අවංචිත හානි Nos	විදුලි සංචාලන කේන්ද්‍ර Families	අවංචිත හානි Persons
					විදුලි සංචාලන කේන්ද්‍ර Families	විදුලි සංචාලන කේන්ද්‍ර Persons				අවංචිත හානි Partially	ඉතා වැදගත් වැදගත් වලට අහිමිවීම් Damages to critical infrastructure					
1	kandy	9		19-May-18	231	996	0	4	0	3	31	0	7	173	753	
2	Galle	7		20-May-18	341	1,387	1	0	0	6	103	2	0	0	0	
3	Ratnapura	12		20-May-18	6,133	24,625	0	0	0	6	139	0	156	38	493	1,951
4	Badulla	3		20-May-18	123	516	0	0	0	0	64	0	0	2	51	207
5	Nuwaraeliya	3		20-May-18	221	832	0	0	0	0	3	0	0	5	138	449
6	Kegalle	11		20-May-18	1,150	4,316	3	1	0	3	621	7	0	12	455	1,584
7	Kalutara	11		20-May-18	933	3,370	1	0	0	3	164	3	0	4	38	149
8	Gampaha	12		20-May-18	1,590	22,673	0	2	0	2	153	0	0	42	3,066	14,166
9	Kurunegala	15		20-May-18	1,595	5,886	0	0	0	3	12	0	3	11	263	879
10	Puttalam	14		20-May-18	4,256	12,760	1	0	0	1	3	0	0	59	2,497	6,182
11	Colombo	5		19-May-18	1,945	7,482	1	0	0	1	1,215	0	10	14	352	1,301
12	Matara	5		20-May-18	19	84	0	0	0	1	17	0	0	0	0	0
13	Monaragala	1		20-May-18	1	3	1	0	0	0	0	0	0	0	0	0
14	Polonnaruwa	2		19-May-18	4	13	2	0	0	0	2	0	0	0	0	0
මුළු එකතුව/සාරාංශය/Total (110)					18,542	84,943	10	7	0	29	2,527	12	169	194	7,526	27,621

J.M.S Jayaweera

J.M.S Jayaweera
Director Preparedness & Planning Division
Disaster Management Centre (DMC)

C.A.K Galatumbage

C.A.K Galatumbage
Assistant Director
National Disaster Relief Services Centre (NDRSC)

Dr. S. Amalanadan
Additional Secretary
Ministry of Irrigation and Water resource & Disaster Management

WEATHER FORECAST FOR 23rd May 2018
(Issued at 05.30 a.m. on 23rd May 2018)

Prevailing rainy condition in the Southwestern part of the island is expected to enhance some extent from today (particularly tonight).

Showers or thundershowers will occur at times in Western, Southern, Sabaragamuwa, Central and North-Western provinces.

Showers or thundershowers will occur elsewhere particularly after 2.00 p.m.

Showers or thundershowers will occur in Jaffna, Mannar and Mullaitivu districts in morning too.

Heavy falls, about 100 mm can be expected at some places in Sabaragamuwa, Western, Central and North-western provinces and in Galle, Matara districts. Fairly heavy falls, about 75mm can be expected at some places in Mullaitivu, Trincomalee and Batticaloa.

There may be temporary localized strong winds during thundershowers. General public is kindly requested to take adequate precautions to minimize damages caused by lightning activity.

දිවයිනේ නිරිත දිග කොටසේ පවතින වැසි සහිත කාලගුණ තත්වයේ තරමක වැඩිවීමක් විශේෂයෙන් අද රාත්‍රියේ සිට බලාපොරොත්තුවේ.

බස්නාහිර, දකුණු, සබරගමුව, මධ්‍යම සහ වයඹ පළාත්වල විටින් විට වැසි හෝ ගිගුරුම් සහිත වැසි ඇති වේ.

සෙසු පළාත්වල විශේෂයෙන් සවස 2.00 න් පසු වැසි හෝ ගිගුරුම් සහිත වැසි ඇති වේ.

යාපනය, මන්නාරම සහ මුලතිව් දිස්ත්‍රික්කවල උදාසන කාලයේ දීත් වැසි හෝ ගිගුරුම් සහිත වැසි ඇති වේ.

සබරගමුව, බස්නාහිර, මධ්‍යම සහ වයඹ පළාත්වලත් ගාල්ල සහ මාතර දිස්ත්‍රික්කවලත් ඇතැම් ස්ථානවලට මි.මී.100 ක පමණ තද වැසි ඇති විය හැක. මුලතිව්, ත්‍රිකුණාමලය සහ මඩකලපුව දිස්ත්‍රික්කවල ඇතැම් ස්ථානවලට මි.මී.75 ක පමණ තරමක තද වැසි ඇති විය හැක.

ගිගුරුම් සහිත වැසි ඇති වන විට එම ප්‍රදේශවල තාවකාලිකව තද සුළං ඇති විය හැක. අකුණු මගින් සිදුවන අනතුරු අවම කර ගැනීමට අවශ්‍ය පියවර ගන්නා ලෙස ජනතාවගෙන් කාරුණිකව ඉල්ලා සිටිනු ලැබේ.

WEATHER FORECAST FOR SEA AREAS AROUND THE ISLAND DURING
NEXT 24 HOURS (Issued at 05.30 a.m. on 23rd May 2018)

Windy and showery condition are expected to enhance in the North-east, North-western, Western and southern sea areas during next few days.

Showers or thundershowers will occur at times in the around the island.

Heavy showers can be expected at some places.

Winds will be Westerly to South-westerly in direction in the sea areas around the island and speed will be 30-40 kmph.

Sea area extending from Kankasanturai to Potuvil via Puttalam, Colombo and Hambantota can be rough at times as the wind speed can increase up to 60 kmph at times.

Temporarily very strong gusty winds (up to 70-80 kmph) and rough seas can be expected during thundershowers. Navel and fishing communities are also requested to be vigilant in this regards.

ඉදිරි පැය 24 සඳහා දිවයින වටා ඇති මුහුදේ කාලගුණ තත්වය
2018 මැයි මස 23 වන දින උදෑසන 05.30 ට නිකුත් කරන ලදී.

දිවයිනට ඊසාන, වයඹ, බස්නාහිර සහ දකුණු දෙසින් වන මුහුදු ප්‍රදේශවල වැසි සහ සුළං තත්වයේ වැඩි වීමක්, ඉදිරි දින කිහිපයේදී බලාපොරොත්තුවේ.

දිවයින වටා මුහුදු ප්‍රදේශවල විටින් විට වැසි හෝ ගිගුරුම් සහිත වැසි ඇති වන අතර ඇතැම් ස්ථානවලට තද වැසි ඇතිවීමේ හැකියාවක්ද පවතී.

දිවයින වටා වන මුහුදු ප්‍රදේශවල සුළං බටහිර සිට නිරිත දක්වා වූ දිශා වලින් හමන අතර සුළගේ වේගය පැ.කි.මී. 30-40 ක් පමණ වේ.

කන්කසන්තුරේ සිට පුත්තලම, කොළඹ සහ හම්බන්තොට හරහා පොතුවිල් දක්වා වන මුහුදු ප්‍රදේශවල සුළගේ වේගය විටින් විට පැ.කි.මී. 60 දක්වා වැඩි විය හැකි අතර එවිට එම මුහුදු ප්‍රදේශ රළු වේ.

ගිගුරුම් සහිත වැසි ඇති වන විට එම ප්‍රදේශවල තාවකාලිකව ඉතා තද සුළං (පැ.කි.මී. 70-80 දක්වා) ඇති විය හැකි අතර එවිට එම මුහුදු ප්‍රදේශ තාවකාලිකව රළු විය හැක.

ධීවර සහ නාවුක ප්‍රජාවට මේ පිලිබදව ඉතා අවධානයෙන් කටයුතු කරන ලෙසත් ඉල්ලා සිටිනු ලැබේ.



කාලගුණ විද්‍යාඥ (Duty Meteorologist),
 කාලගුණ විද්‍යා දෙපාර්තමේන්තුව (Department of Meteorology)



EMERGENCY OPERATIONS DIVISION

RECEIVED

Date : 2018/05/23

Time : 0530 hrs



D (Ops)/DO/ADD



වාරිමාර්ග දෙපාර්තමේන්තුව
நீர்ப்பாசனத் திணைக்களம்
IRRIGATION DEPARTMENT



අධ්‍යක්ෂ ජනරාල්
பணிப்பாளர் நாயகம்
Director General } 011-2584984

ෆැක්ස්
பக்ஸ்
Fax } 011-2505890

ලිපිනය
முகவரி
Address } 230, පූ.පෙ. 1138, බෞද්ධලෝක මාර්ග, කොළඹ 07, ශ්‍රී ලංකාව
230, த.பெ.1138, பௌத்தலோகமாவத்தை, கொழும்பு 07, இலங்கை
230, P.O. Box 1138, Baudhaloka Mawatha, Colombo 07, Sri Lanka

දුරකථනය (සාමාන්‍ය)
தொலைபேசி
Telephone (General) } 011-2581162

විද්‍යුත් ලිපිනය
ச.மெயில்
E-mail Address } dgiirrigation@gmail.com

වෙබ් අඩවිය
இணையம்
Web site } www.irrigation.gov.lk

මගේ අංකය
எனது இல
My No. } Dr, FS & DM/ IO
ROOM/ 115

ඔබේ අංකය
உமது இல
Your No. }

දිනය
திகதி
Date } 23-05-2018

Director General,
Disaster Management Center

Flood Situation Report by Irrigation Department - As at 9.00 AM – 2018-05-23

Flood situation over the Island is as follows.

No.	River Basin	Flood Situation	Affected Divisional Secretary Areas
1	Nilwala River	Affected by minor floods. Flood levels of unprotected low line areas which are inundated decreasing gradually.	Pitabaddara, Akuesssa, Athuraliya, Kamburupitiya, Malimbada, Thihagoda, Kadawathsathara, Matara
2	Gin Ganga	Affected by minor floods. Flood levels of unprotected low line areas which are inundated decreasing gradually.	Baddegama, Bope Poddala, Welivitiya, Divithura, Nagoda, Niyagama, Thawalama, Neluwa
3	Kalu Ganga	Affected by minor floods. Flood levels of unprotected low line areas which are inundated decreasing gradually.	Kalutara, Dodamgoda, Millaniya, Madurawala, Horana, Palindanuwara, Bulathsinhala, Ingiriya, Kiriella, Kuruwita, Ealapatha, Ratnapura
4	Kelani Ganga	Affected by minor floods. Flood levels of unprotected low line areas which are inundated decreasing gradually.	Colombo, Kelaniya, Kolonnawa, Biyagama, Kaduwela, Hanwella, Dompe, Ruwanwella, Dehiowita, Deraniyagala
5	Attanagalu Oya	Affected by minor floods. Flood levels of unprotected low line areas which are inundated decreasing gradually.	Megamuwa, Ja Ela, Katana, Minuwangoda, Gampaha, Aththanagalla
6	Ma Oya	Becoming normal.	Pannala, Diwlapitiya
7	Mahaweli Ganga	Becoming normal.	Nawalapitiya

Forecast for flood situation

Flood situation around the Island would gradually become normal within next 24 hours if a considerable rainfall (above 100 mm/day) is not occurred. However Disaster Management institutions and general public shall be in continuous alert as flood situation could become high rapidly if higher rainfall occurs.

Eng. G. P. Gunawardana

Director of Irrigation (Drainage, Flood Systems & Disaster Mgt.)
For Director General of Irrigation

Eng. G. P. Gunawardana
Director of Irrigation (Dr. Flood Systems & Disaster Mgt.)
Irrigation Department
230. Baudhaloka Mawatha,
Colombo 07

Islandwide Water Level Situation in Major Rivers

DATE: 23-May-2018

TIME: 09.30 AM

River	Gauging Station							Water Level before 1hr	Water Level at 9.00 am	Remarks	Water Level Rising or Falling
	Station	Coordinate	Catchment Area (km ²)	Unit	Alert Level	Minor Flood Level	Major Flood Level				
Kelani Ganga (RB 01)	N' Street	6° 57' 35" N 79° 52' 36.6" E	2085	ft	4.00	5.00	7.00	4.95	4.95	Alert	
	Hanwella	6° 54' 39.38" N 80° 05' 3.16" E	1782	m	7.00	8.00	10.00	7.10	7.03	Alert	Falling
	Glencourse	6° 58' 25" N 80° 11' 3" E	1463	m	15.00	16.50	19.00	12.78	12.70	Normal	
	Holombuwa	7° 11' 8.6" N 80° 15' 53.3" E	155	m	3.00	3.40	5.00	1.65	1.62	Normal	
	Deraniyagala	6° 55' 23.23" N 80° 20' 20.3" E	183	m	4.80	5.80	6.40	1.70	1.72	Normal	
	Kitulgala	6° 59' 25" N 80° 24' 50" E	383	m	2.00	3.00	5.00	0.94	1.06	Normal	
	Norwood	6° 50' 8.32" N 80° 36' 52.75" E	97	m	1.50	2.00	2.15	1.19	1.17	Normal	
Kalu Ganga (RB 03)	Ratnapura	6° 40' 43.2" N 80° 23' 49.8" E	603	m	5.20	7.50	9.50	6.33	6.25	Alert	Falling
	Eilagawa	6° 43' 54" N 80° 13' 4.2" E	1393	m	10.00	10.70	12.20	11.24	11.24	Flood	
	Millakanda	6° 37' 50.3" N 80° 9' 37.7" E	780	m	5.00	6.50	8.00	8.80	8.76	Flood	Falling
	Putupaula	6° 36' 51.9" N 80° 3' 44.2" E	2598	m	3.00	4.00	5.00	4.34	4.36	Flood	Rising
Gin Ganga (RB 09)	Tawalama	6° 20' 33.3" N 80° 19' 55.2" E	377	m	4.25	4.50	6.10	4.57	4.57	Flood	
	Baddegama	6° 10' 26" N 80° 10' 33.1" E	749	m	3.50	4.00	5.00	2.57	2.52	Normal	
Nilwala Ganga (RB 12)	Pitabeddara	6° 12' 48.2" N 80° 28' 34.5" E	310	m	3.25	4.00	5.00	1.43	1.41	Normal	
	Panadugama	6° 08' 00" N 80° 29' 00" E	445	m	5.00	6.00	6.50	5.82	5.79	Alert	Falling
	Urawa	6° 14' 11.8" N 80° 34' 18" E	59	m	2.50	3.00	4.00	0.89	0.86	Normal	
Kirindi Oya (RB 22)	Tanamalwila	6° 28' 5.8" N 81° 8' 2.8" E	749	m	4.00	5.00	5.50	0.93	0.92	Normal	
	Wellawaya	6° 42' 33.3" N 81° 6' 41.6" E	172	m	4.40	5.40	5.90	0.90	0.90	Normal	
	Kuda Oya	6° 31' 28.8" N 81° 07' 24" E	291	ft	20.00	25.00	26.00	2.10	2.10	Normal	
Maduru Oya (RB 54)	Padiyatalawa	7° 23' 0" N 81° 11' 30" E	159	m	4.00	4.50	6.00	0.87	0.85	Normal	
Kumbukkan Oya (RB 31)	Nakkala	6° 53' 42.4" N 81° 17' 49.3" E	215.5	m	5.00	6.00	7.50	0.93	0.92	Normal	
Heda Oya (RB 36)	Siyambalanduwa	6° 54' 16.5" N 81° 32' 44.4" E	295	m	4.50	5.00	5.60	0.54	0.54	Normal	
Mahaweli Ganga (RB 60)	Peradeniya	7° 16' 3" N 80° 36' 30" E	1168	m	5.00	7.00	9.00	3.70	3.67	Normal	
	Nawalapitiya	7° 2' 56" N 80° 32' 3" E	176	m	3.00	4.00	4.50	1.67	1.67	Normal	
	Weragantota	7° 19' 0" N 80° 59' 18.3" E	4092	m	5.00	5.00	8.00	-2.00	-2.05	Normal	
	Manampitiya	7° 54' 53.3" N 81° 5' 10" E	7418	m	3.50	3.70	4.00	0.02	0.04	Normal	
	Taldena	7° 5' 26.7" N 81° 2' 53.3" E	276	m	3.00	4.00	5.00	1.12	1.14	Normal	
	Calldonia	6° 54' 8.3" N 80° 42' 00" E	148	m	-	-	-	1.21	1.21	-	
Yan Oya (RB 67)	Horowpatana	8° 34' 39.44" N 80° 52' 43.25" E	720	m	6.00	7.30	10.44	1.53	1.53	Normal	
Malwathu Oya (RB 90)	Tantirimale	8° 35' 13.57" N 80° 18' 31.14" E	2116	m	6.75	7.25	-	1.03	1.03	Normal	
Mee Oya (RB 95)	Galgamuwa	7° 58' 13.3" N 80° 15' 18.3" E	299	m	4.84	5.94	7.00	0.08	0.08	Normal	
Maha Oya (RB 102)	Badalgama	7° 18' 3.3" N 79° 58' 50" E	1360	ft	1.00	5.00	16.00	-1.90	-1.80	Normal	
	Girulula	7° 19' 30" N 80° 6' 53.3" E	1192	m	5.00	6.00	6.50	3.20	3.17	Normal	
Attanagalu Oya (RB 103)	Dunamale	7° 7' 0" N 80° 4' 54.5" E	153	m	3.30	4.40	5.50	4.39	4.38	Alert	Falling

Prepared by K.G.D.C. Dissanayake
Checked by K.A. Amarasinghe

Eng. R. M. M. R. Alawathugoda
Director (Hydrology)
Eng. R. M. M. R. Alawathugoda
Director of Irrigation (Hydrology)
Hydrology Division
Irrigation Department
Colombo 07

Landslide Early Warning

நாட்டின் பகுதிகளில் பரவியுள்ள நிலநிலக்கதிர்
 மண்சரிவு முன்னெச்சரிக்கை

From 16:00 hrs on 22.05.2018 to 16.00 hrs on 23.05.2018

22.05.2018 16.00, 23.05.2018 16.00-17.00

22.05.2018 மணி 16.00 இலிருந்து 23.05.2018 மணி 16.00 வரை



NBRO

NATIONAL BUILDING RESEARCH ORGANISATION

ජාතික ගොඩනැගිලි පර්යේෂණ සංවිධානය

தேசிய கட்டிட ஆராய்ச்சி நிறுவனம்

No. 99/1, Jawatta Road, Colombo 05

අංක. 99/1, ජාවත්ත පාර, කොළඹ 05

இல.99/1, ஜாவத்தை வீதி, கொழும்பு 05

Tele./දු.ක./தொ.பே-0112588946

Fax/ෆැක්ස්/தொ.ந-0112589943

Warning level 1:

Watch

Since the rainfall within the past 24 hours has exceeded 75mm, if the rain continues, be watchful on the possibility of landslides, slope failures, rock falls, cutting failures and ground subsidence.

Color Code:

Yellow

අදියර 1:

විමසිලීමක්

වර්ණ කේතය:

කහ

எச்சரிக்கை மட்டம் 1:

அவதானிப்பு

வாண் குறியீடு:

மஞ்சள்

පසු ගිය පැය 24 තුළ වර්ෂාපතනය 75mm ඉක්මවා ඇති බැවින්, වර්ෂාව නවදුරටත් පවතී නම් නායයුම්, බවුම් කඩා වැටීම්, ගල් පෙරළීම්, පස් කණ්ඩි කඩා වැටීම් සහ පොළොව ගිලා බැසීම් අවදානම පිළිබඳව විමසිලීමක් වන්න.

கடந்த 24 மணித்தியாலங்களில் மழைவீழ்ச்சி 75 மி.மீ களை மேவியுள்ளதனால்- மழை தொடருமாயின் மண்சரிவு, சாய்வு இடிந்து விழுகை, பாறை விழுகை, நிலவெட்டுசாய்வு இடிந்து விழுகை மற்றும் தரை உள்நிறக்கம் என்பவற்றின் சாத்தியங்களுக்கான அவதானிப்புடன் இருக்கவும்.

Warning level 2:

Alert

Since the rainfall within the past 24 hours has exceeded 100 mm, if the rains continue, be on alert on the possibility of landslides, slope failures, rock falls, cut failures and ground subsidence, being ready to evacuate to a safe location if the need arises.

Color Code:

Amber

අදියර 2:

අවධාන

වර්ණ කේතය:

ඇම්බර්

எச்சரிக்கை மட்டம் 2:

எச்சரிக்கை

வாண் குறியீடு:

செம்மஞ்சள்

පසුගිය පැය 24 තුළ වර්ෂාපතනය 100 mm ඉක්මවා ඇති බැවින්, වර්ෂාව නවදුරටත් පවතී නම් නායයුම්, බවුම් කඩා වැටීම්, ගල් පෙරළීම්, පොළොව ගිලා බැසීම් සහ පස් කණ්ඩි කඩා වැටීම් අවධානම පිළිබඳ අවධානයෙන් සිටි අවශ්‍ය වුවහොත් ආරක්ෂාකාරී තැනකට යාමට සූදානම් වන්න.

கடந்த 24 மணித்தியாலங்களில் மழைவீழ்ச்சி 100 மி.மீ களை மேவியுள்ளதனால்- மழை தொடருமாயின் மண்சரிவு, சாய்வு இடிந்து-விழுகை, பாறை-விழுகை, நிலவெட்டுசாய்வு இடிந்து-விழுகை மற்றும் தரை-உள்நிறக்கம் என்பவற்றின் சாத்தியங்களையிட்டு எச்சரிக்கையுடன்- தேவையேற்படின் பாதுகாப்பான இடங்களுக்கு வெளியேறும் தயார் நிலையில் இருக்கவும்.

Warning level 3:

Evacuation

Since the rainfall within the past 24 hours has exceeded 150 mm, if the rains continue, evacuate to a safe location to avoid the risk of landslides, slope failures, rock falls, cutting failures and ground subsidence.

Color Code:

Red

අදියර 3:

ඉවත්වීම

වර්ණ කේතය:

රතු

எச்சரிக்கை மட்டம் 3:

வெளியேறுகை

வாண் குறியீடு:

சிவப்பு

පසුගිය පැය 24 තුළ වර්ෂාපතනය 150mm ඉක්මවා ඇති බැවින්, වර්ෂාව නවදුරටත් පවතී නම් නායයුම්, බවුම් කඩා වැටීම්, ගල් පෙරළීම්, පොළොව ගිලා බැසීම් සහ පස් කණ්ඩි කඩා වැටීම් අනතුරු වලින් වැලකීමට ආරක්ෂිත ස්ථානයකට යන්න.

கடந்த 24 மணித்தியாலங்களில் மழைவீழ்ச்சி 150 மி.மீ களை மேவியுள்ளதனால்- மழை தொடருமாயின் மண்சரிவு, சாய்வு இடிந்து விழுகை, பாறை விழுகை, நிலவெட்டுசாய்வு இடிந்து விழுகை மற்றும் தரை உள்நிறக்கம் என்பவற்றின் அபாயங்களை தவிர்ப்பதற்காக பாதுகாப்பான பகுதிகளுக்கு வெளியேறவும்.

Locations of potential risk

නායයුමේ අවදානම පැවතිය හැකි ප්‍රදේශ

கனதியான அபாயமுள்ள இடங்கள்

Divisional Secretariat Divisions and Locations

District	Divisional Secretariat Divisions and Locations			Areas and places which need special attention
	Level 1 (Yellow)	Level 2 (Amber)	Level 3 (Red)	
Rathnapura		Ratnapura↓ Elapatha↓ Kuruwita↓ Ehaliyagoda↓ Ayaganma Kahawatta Kalawana Kiriella Kolona Nivitigala Pelmadulla Balangoda Godakawela Imbulpe Opanayaka Weligepola Divisional secretariat divisions and surrounding areas.		All mountainous areas, manmade cut slopes and roads within the relevant DS divisions අදාළ ප්‍රාදේශීය ලේකම් කොට්ඨාශ තුළ පිහිටි කඳුකර බෑවුම් හා ඒ ආශ්‍රිත ප්‍රදේශ තුළ පිහිටි නිර්මිත பிரதேச செயலக பிரிவினாள்ளான சகல மலைப்பாங்கான பகுதிகள் மற்றும் வெட்டப்பட்ட நிலச் சாய்வுகள்
Kegalle	Warakapola Divisional secretariat division and surrounding areas.	Bulathkopitiya↓ Dehiovita↓ Deraniyagala↓ Ruwanwella↓ Aranayaka↓ Galigamuwa Kellgalle Mawanalle Yatiyanthota Rambukana Divisional secretariat divisions and surrounding areas.		Specially: All the landslide susceptible areas previously identified by NBRO. විශේෂ: ජාතික ගොඩනැගිලි පර්යේෂණ සංවිධානය විසින් නායයුමේ අවදානමක් ඇති ලෙස පූර්වයෙන් හඳුනාගෙන ඇති ප්‍රදේශ விசேடமாக: NBROவினால் முன்னர் அடையாளப்படுத்தப்பட்ட மண்சரிவுக்கான ஏதுநிலையுள்ள சகல பிரதேசங்கள்.
Kandy	Thumpane Divisional secretariat division and	Pasbage Korale GangaIhala Korale Udapalatha Doluwa		

	surrounding areas.	Divisional secretariat divisions and surrounding areas.		
Matale	Matale, Rattota, Ukkuwela Divisional secretariat division and surrounding areas.			
Nuwara Eliya		Ambagamuwa↓ Kothmale↓ Nuwara Eliya Divisional secretariat divisions and surrounding areas.		
Badulla	Haldumulla Divisional secretariat division and surrounding areas.			
Kalutara		Palinda Nuwara↓ Agalawatta Bulathsinhala Ingiriya Walalawita Divisional secretariat divisions and surrounding areas.		
Galle		Elpitiya↓ Galle Four Gravest↓ Nagoda↓ Neluwa↓ Thawalama↓ Divisional secretariat division and surrounding areas.		

<p>Kurunagala</p>	<p>Ibbagamuwa Malwalapitiya Mawathegama Rideegama</p> <p>Divisional secretariat divisions and surrounding areas.</p>			
<p>Colombo</p>	<p>Seethawaka</p> <p>Divisional secretariat division and surrounding areas.</p>			

Note: ↑shifted one level up, ↑↑shifted two levels up, ↓shifted one level down, ↓↓shifted two levels down.

විශේෂ සටහන: කරුණාකර මෙම නායයෑම් පිළිබඳ පූර්ව අනතුරු හැඟවීම් කාලසීමාව තුළ පහත කරුණු වෙත ඔබේ අවධානය යොමු කරන්න.

- පහත දැක්වෙන නායයෑම් පූර්ව ලක්ෂණ පිළිබඳ සැලකිලිමත් වන්න.
 - පොළවේ ඇති වන ඉරි නැලීම්, ගැඹුරට හැරුණු පැළුම් හා පොළවේ ගිලා බැසීම්
 - ක්‍රමයෙන් ඇලවී යන ගස්, විදුලි කණු, වැටවල් හා දුරකථන කුළුණු ආදිය
 - ගොඩනැගිලිවල ගෙබිම හා බිත්තිමත ඇතිවන පිපුරුම් හා ඒවායේ ක්‍රමික වර්ධනය වීම්
 - එක්වර ජල උල්පත් ඇතිවීම හෝ පෙර පැවති ජල උල්පත් බොරවීම, අවහිරවීම හෝ නැතිවීම
- එවන් නායයාමක පූර්ව ලක්ෂණ දක්නට ලැබෙන ප්‍රදේශ වලින් හැකි ඉක්මනින් ඉවත් වන්න.
- ඊට අමතරව අනතුරට භාජනය වියහැකි යැයි අනුමාන කරන ප්‍රදේශ වල ජීවත් වන පුද්ගලයින් වැඩි වශයෙන් පරීක්ෂාකාරී වියයුතු අතර දැඩි වර්ෂා තත්වය නවදුරටත් පැවතුනහොත් සුරක්ෂිත ස්ථානයක් කරා ක්ෂණිකව ඉවත්ව යාමට සූදානම්ව සිටිය යුතුය.

සැ.යු: ජාතික ගොඩනැගිලි පර්යේෂණ සංවිධානයෙන් සහ ආපදා කළමනාකරණ මධ්‍යස්ථානයෙන් ලැබෙන වැඩිදුර උපදෙස් අනුගමනය කරන්න.

Special Note: During this Landslide Early Warning period, please pay attention to the following:

- Pay your attention to the following pre landslide signs,
 - Development of cracks on the ground, deepened cracks and ground subsidence
 - Slanting of trees, electrical posts, fences and telephone posts
 - Cracks in the floors and walls of buildings which are built at slopes
 - Sudden appearance of springs, emerging muddy water, blockage or disappearance of existing springs
- People should move immediately away from the areas where they noticed the above pre-landslide signs.

3. Furthermore, people living in landslide susceptible areas should be extra vigilant and should be ready to move quickly to safe places if heavy rain continues.

Note: Communities are advised to follow the instructions given by National Building Research Organization and Disaster Management Center.

விசேட குறிப்பு: மண்சரிவு முன்னெச்சரிக்கை காலப்பகுதியில் பின்வருவனவற்றில் கவனம் எடுக்கவும்

1. பின்வரும் மண்சரிவு முன் அறிகுறிகளையிட்டு கவனத்தை செலுத்தவும்.

- நிலத்தில் வெடிப்பு உருவாகுதல், ஆழமாகும் வெடிப்புகள் மற்றும் தரை உள்ளிறக்கங்கள்.
- மரங்கள், மின் கம்பங்கள், வேலிகள், மற்றும் தொலைபேசிக் கம்பங்கள் சாய்வடைதல்.
- சாய்வுகளில் அமைந்துள்ள கட்டிடங்களின் தரைமற்றும் சுவர்களில் வெடிப்புகள் உருவாகுதல்.
- நிலத்திலிருந்து திடீரென நீர்நீறுகள், சேற்று நீர் தோன்றுதல் மற்றும் தற்போதுள்ள நீர்நீறுகள் தடைப்படுதல் அல்லது இல்லாது போகுதல்.

2. மண்சரிவுக்கு முன்னரான அறிகுறிகளை கொண்ட இடங்களிலிருந்து உடனடியாக மக்கள் அப்பால் நகர வேண்டும்.

3. மேலும், பாதிப்பு ஏதுநிலையுள்ள பகுதிகளில் வாழும் மக்கள் மேலதிக விழிப்புடன் இருக்கவேண்டும் என்பதுடன் கடும் மழை தொருமாயின் விரைவாக பாதுகாப்பான இடங்களுக்கு நகர ஆயத்தமாகவும் இருக்கவேண்டும்.

குறிப்பு: தயவுசெய்து தேசிய கட்டிட ஆராய்ச்சி நிறுவனம் மற்றும் அனர்த்த முகாமைத்துவ நிலையம் என்பவற்றின் அறிவுறுத்தல்களை பின்பற்றவும்

<p>Issued by:</p>  <p>Duty Officer</p>	<p>Approved by:</p>  <p>(for) Director</p>	<p>Date and time issued: 2018/05/22 16.00 hrs.</p>
<p>Landslide Research and Risk Management Division National Building Research Organisation</p>		