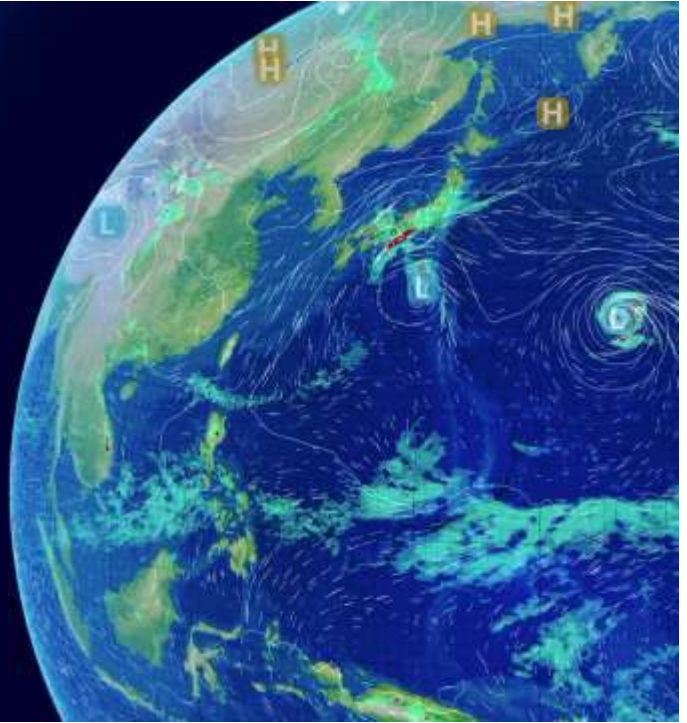
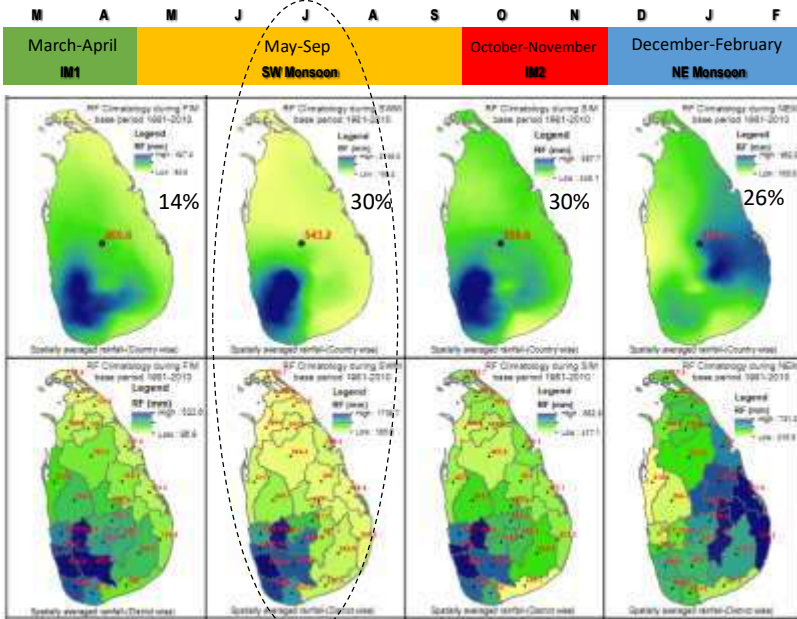


Climate outlook : May-June-July 2024

Anusha Warnasooriya
Director(Climate Change and Research)
Department of Meteorology



Rainfall Distribution in Four Seasons



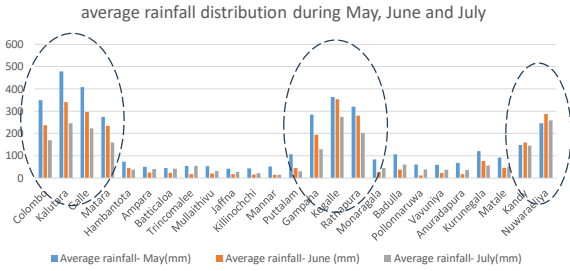
First Inter Monsoon Season (FIM)
March-April

South West Monsoon Season (SWM)
May - September

Second Inter Monsoon Season (SIM)
October-November

North East Monsoon Season (NEM)
December - March

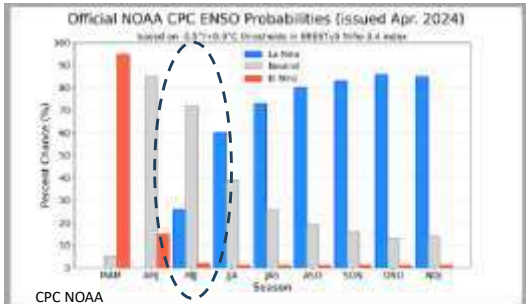
Normal Rainfall (1981-2010, 30 year average) during May-June-July



District	Average rainfall- May(mm)	Average rainfall- June (mm)	Average rainfall- July(mm)
Colombo	348.9	237.6	169.7
Kalutara	477.9	341.0	245.2
Galle	408.0	296.6	223.0
Matara	274.0	234.0	159.1
Hambantota	73.6	45.2	37.0
Ampara	50.2	24.2	40.5
Batticaloa	43.9	23.1	41.3
Trincomalee	54.0	17.8	54.3
Mullaitivu	53.4	19.7	31.4
Jaffna	42.2	17.0	26.9
Killinochchi	43.2	15.4	22.1
Mannar	51.2	14.5	14.5
Puttalam	106.2	44.8	30.5
Gampaha	284.9	194.4	130.0
Kegalle	363.3	353.3	275.1
Ratnapura	321.1	279.8	202.2
Monaragala	83.3	27.0	44.0
Badulla	107.0	37.7	59.7
Polonnaruwa	59.7	11.8	39.0
Vavuniya	59.2	22.8	38.0
Anuradapura	67.0	16.8	35.7
Kurunegala	121.4	76.6	56.4
Matale	91.4	45.7	51.7
Kandy	147.8	159.0	145.0

Climate Drivers: ENSO(EI Nino and La Nina)/IOD

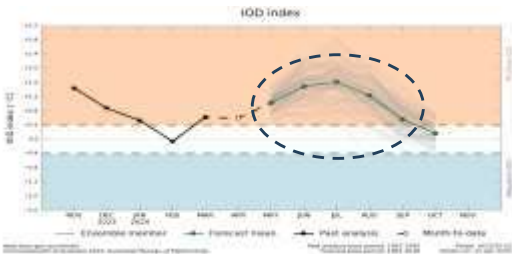
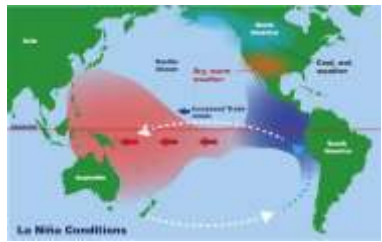
ENSO forecast



A transition from El Niño to ENSO-neutral is likely by April-June 2024 (85% chance), with the odds of La Niña developing by June-August 2024 (60% chance).*

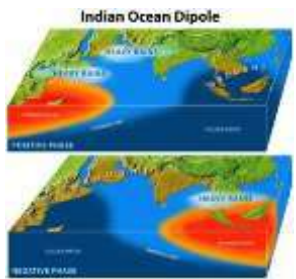
IOD forecast

La Nina



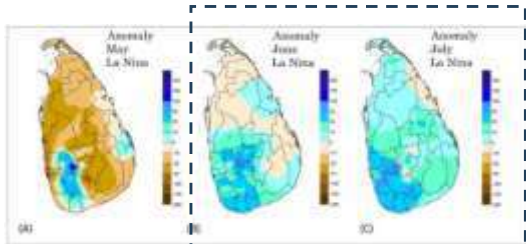
Positive IOD

Negative IOD

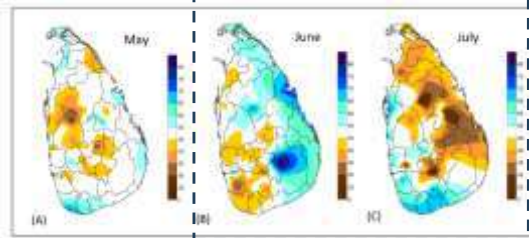


BOM Australia

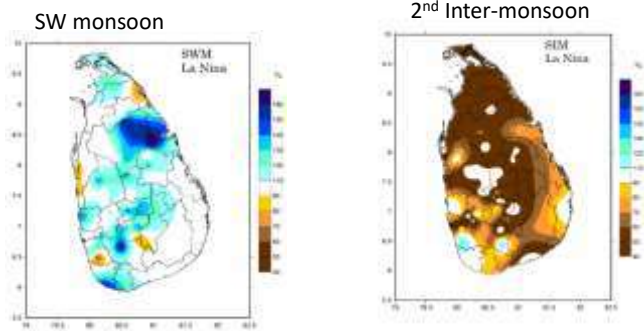
Rainfall anomaly during La Nina events



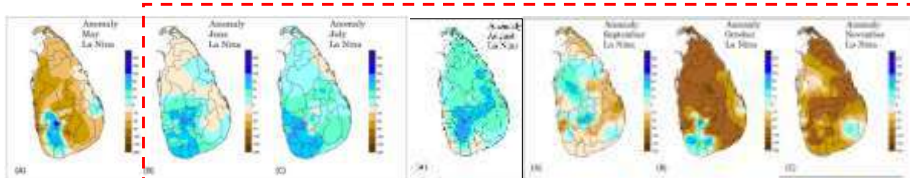
Rainfall anomaly during + IOD events



Rainfall variation during La Nina



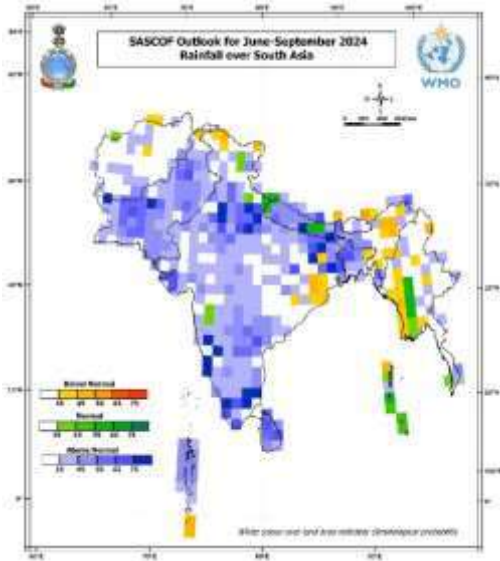
Monthly rainfall anomaly during La Nina



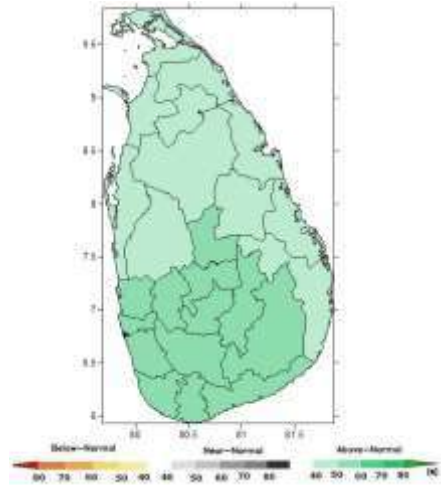
Hapuarachchi et al 2015

Seasonal rainfall forecast for SW monsoon 2024

SASCOF rainfall forecast for June-September 2024



National forecast for May to September 2024



Seasonal/Monthly rainfall anomaly forecast for May-June-July 2024

Total rainfall forecast for MJJ 2024

May 2024

June 2024

July 2024



There is a chance of having above normal over Southern, Western, Central, Sabaragamuwa and Uva provinces and near normal elsewhere.



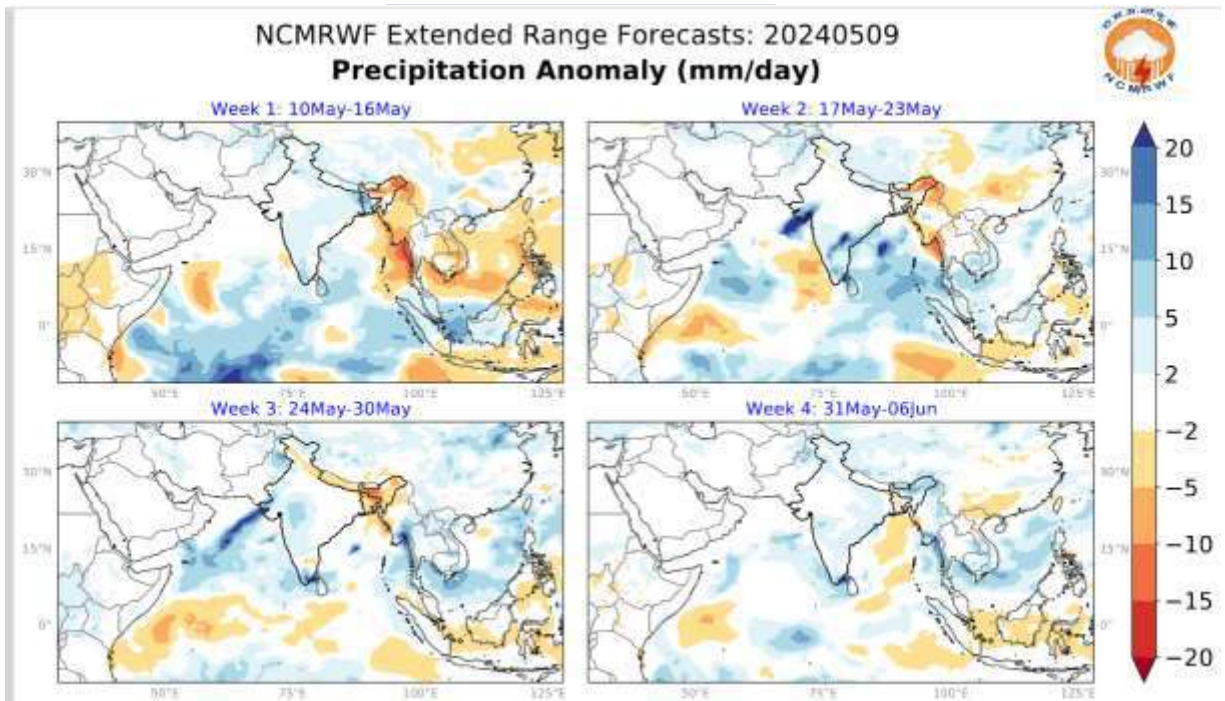
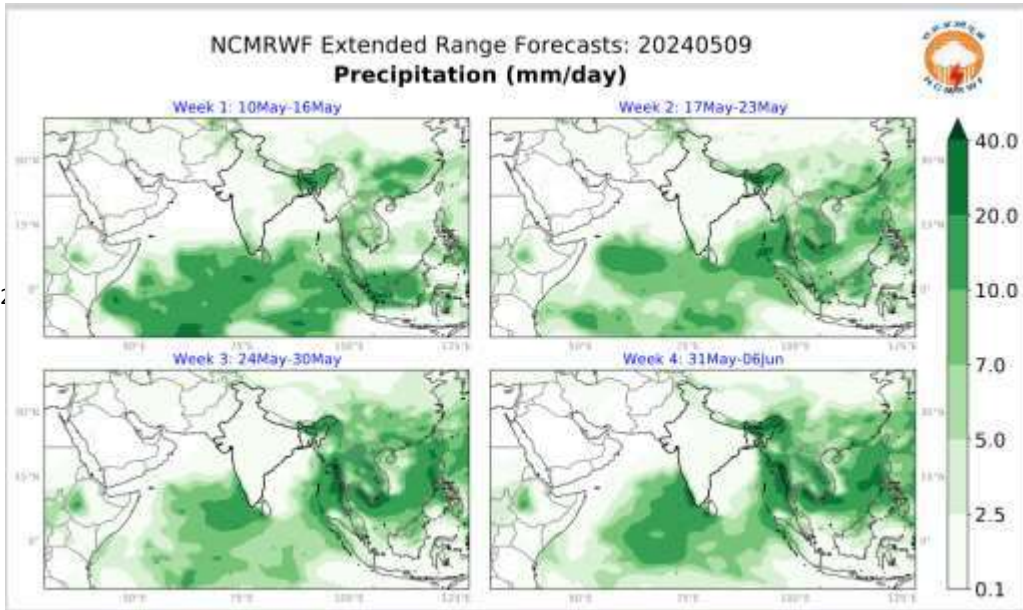
There is a chance of having above normal over Southern, Western, Sabaragamuwa, Central and Uva provinces and near normal elsewhere. .

There is a chance of having above normal over Southern, Western, Sabaragamuwa and Central provinces and near normal elsewhere. .

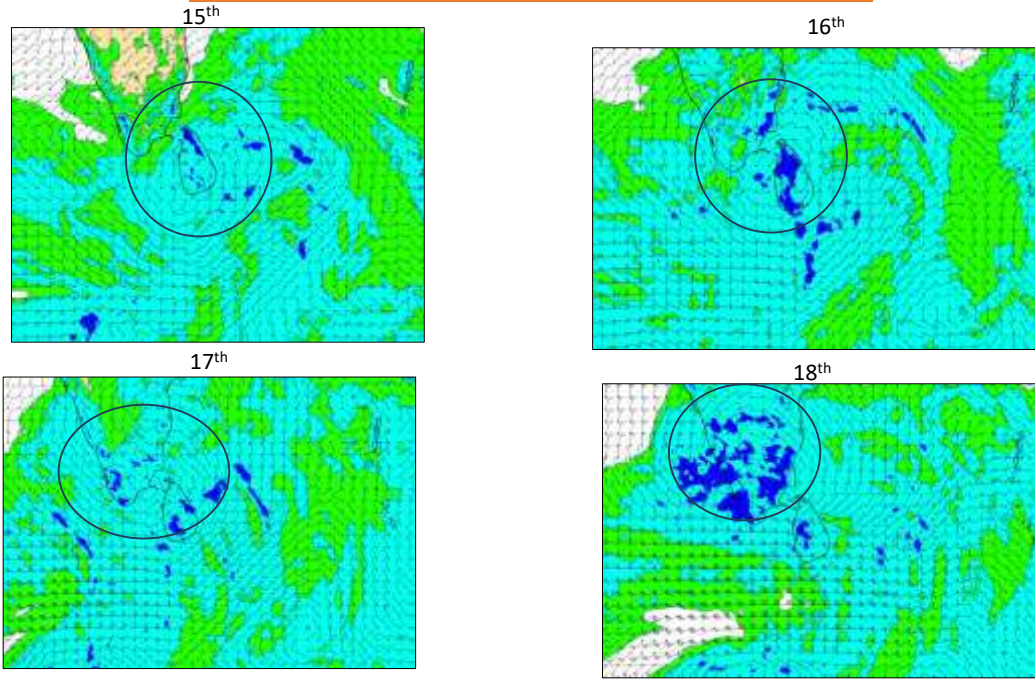
There is a chance of having above normal over most parts.

Weekly Rainfall Forecasts

17-

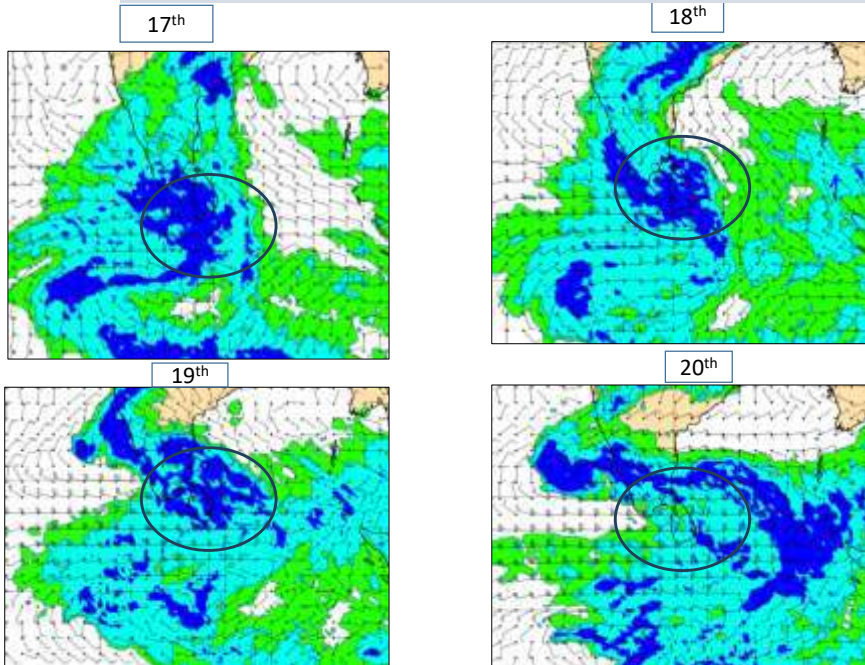


Atmospheric disturbance over Sri Lanka-850hpa wind pattern



ECMWF

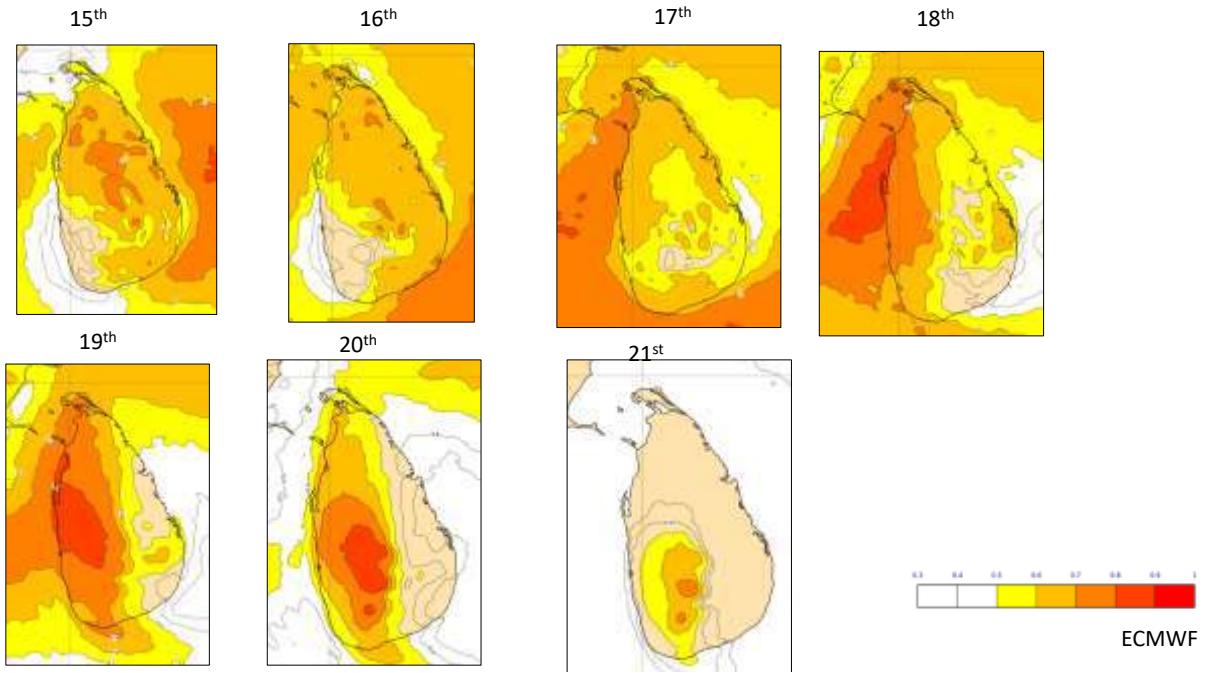
Daily wind pattern over 500hpa level forecast during 17-20 May 2024



Onset of SW monsoon

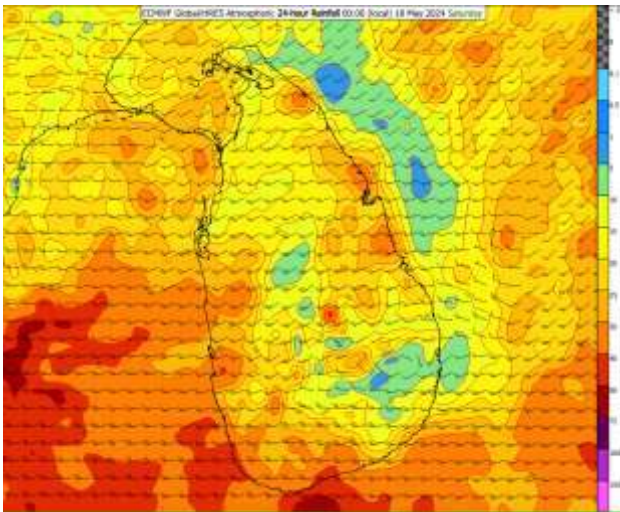
ECMWF

Possibility for Extreme rainfall during 15-22 May 2024

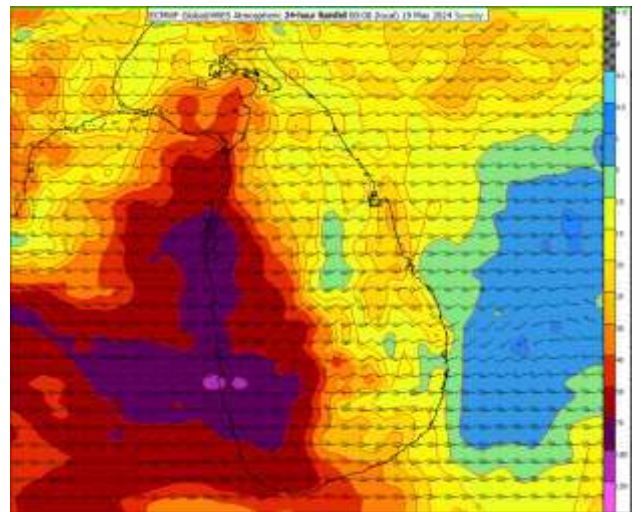


24hr rainfall forecasts

17th May 2024



18th May 2024

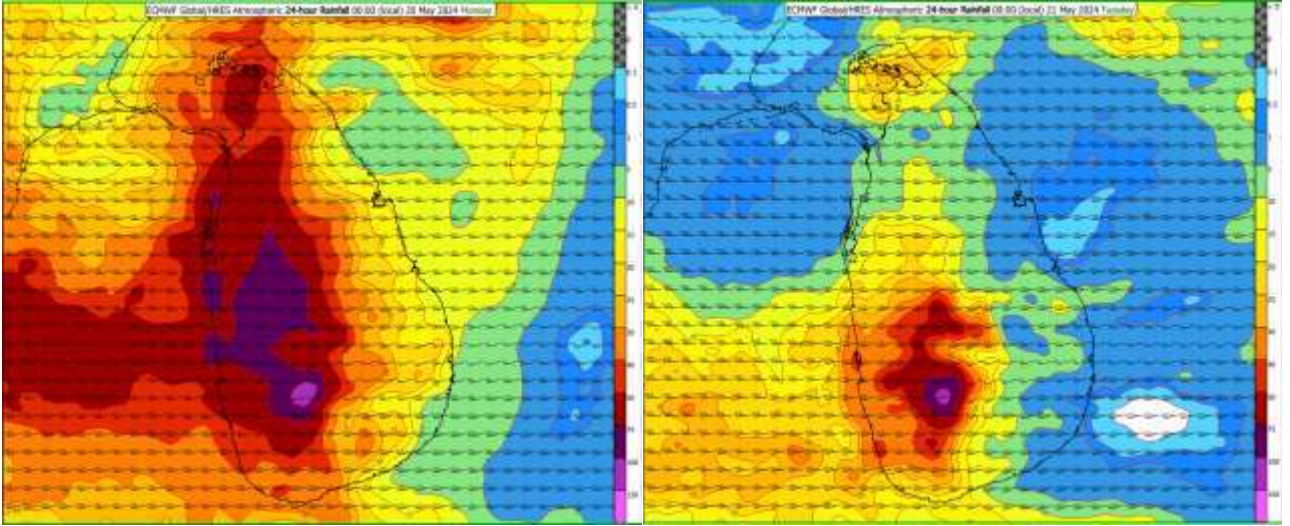


ECMWF

19th MAY 2024

24hr rainfall forecasts

20th MAY 2024

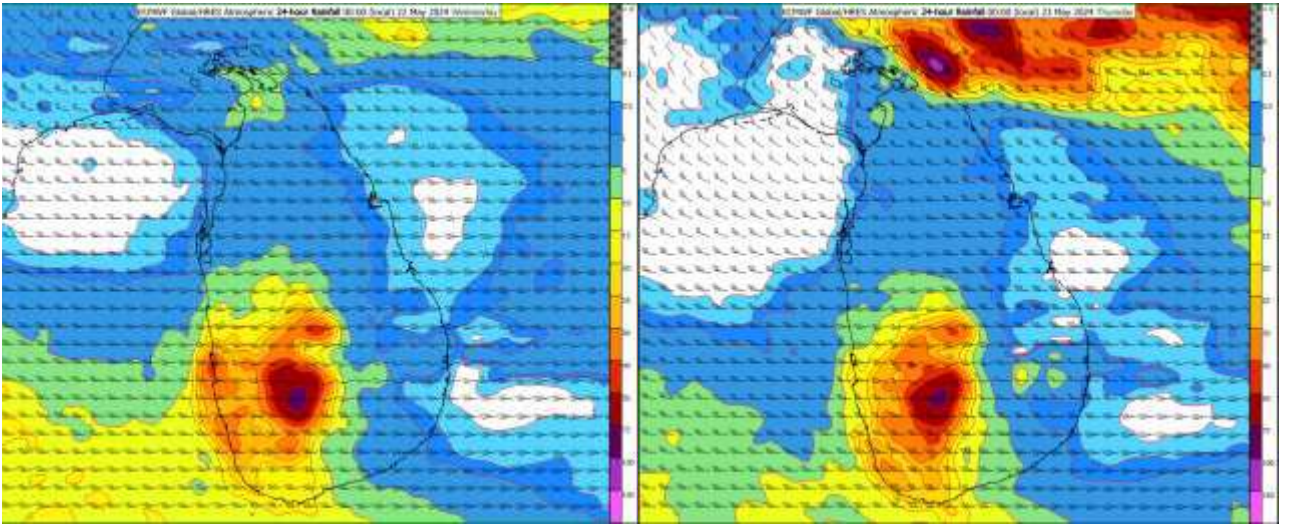


ECMWF

21st MAY 2024

24hr rainfall forecasts

22nd MAY 2024



ECMWF

Attention is required for following areas

WWW.meteo.gov.lk

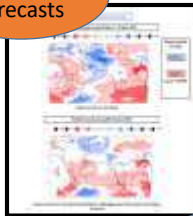
Attention is requested for following areas

- Atmospheric disturbances/low pressure systems/cyclones are likely over and in the vicinity of Sri Lanka during the latter half of May and first half of June .
- Flood and landslides are possible particularly over SW part of the country during next two weeks
- Lightning/temporarily strong wind are likely during first half of May.
- warm condition is likely to reduce gradually from 2nd week of May
- General public are kindly requested to pay more attention for the instructions and advisories issued by authorized agencies.



Updated Forecasts from Department Web site

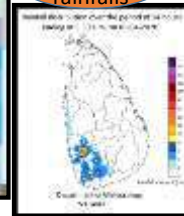
Weekly forecasts



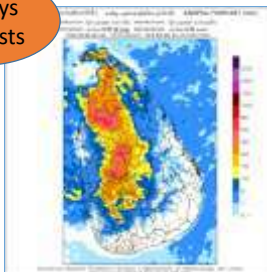
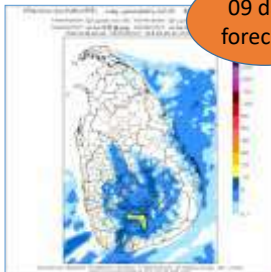
www.meteo.lk



Daily rainfalls



09 days forecasts



Station Name	Station No.	Station Code	Station Type	Station Category	Station Status	Station Coordinates	Station Elevation	Station Data
Colombo	101	101	Urban	Urban	Active	7.0000, 79.8000	100	101
Kandy	102	102	Urban	Urban	Active	7.2900, 80.6300	1000	102
Nuwara-Eliya	103	103	Urban	Urban	Active	7.2900, 80.6300	2000	103
Trincomalee	104	104	Urban	Urban	Active	8.0000, 80.6300	100	104
Galle	105	105	Urban	Urban	Active	6.9500, 80.6300	100	105
Hambantota	106	106	Urban	Urban	Active	6.9500, 80.6300	100	106
Matigala	107	107	Urban	Urban	Active	7.2900, 80.6300	1000	107
Polonnaruwa	108	108	Urban	Urban	Active	7.2900, 80.6300	1000	108
Ratnapark	109	109	Urban	Urban	Active	7.2900, 80.6300	1000	109
Sri Jayawardenepura	110	110	Urban	Urban	Active	7.2900, 80.6300	1000	110
Tankalana	111	111	Urban	Urban	Active	7.2900, 80.6300	1000	111
Thalagaha	112	112	Urban	Urban	Active	7.2900, 80.6300	1000	112
Wundwinna	113	113	Urban	Urban	Active	7.2900, 80.6300	1000	113
Yakkalamulla	114	114	Urban	Urban	Active	7.2900, 80.6300	1000	114
Yakkalamulla	115	115	Urban	Urban	Active	7.2900, 80.6300	1000	115
Yakkalamulla	116	116	Urban	Urban	Active	7.2900, 80.6300	1000	116
Yakkalamulla	117	117	Urban	Urban	Active	7.2900, 80.6300	1000	117
Yakkalamulla	118	118	Urban	Urban	Active	7.2900, 80.6300	1000	118
Yakkalamulla	119	119	Urban	Urban	Active	7.2900, 80.6300	1000	119
Yakkalamulla	120	120	Urban	Urban	Active	7.2900, 80.6300	1000	120