

HIGHLIGHTS

Rainfall Prediction



• Heavy rainfall is predicted for Jaffna districts; fairly heavy rainfall (50–100 mm) is expected for Sabaragamuwa, Central, and Uva provinces and Galle and Matara districts during 29 Jul - 2 Aug.

Monitored Rainfalls



• During the last week, the average daily rainfall over Sri Lanka was 6.7 mm and hydro catchment areas have received 11.6 mm on average.

Monitored Wind



• From 18th - 24th July, up to 10 m/s of south-westerly and north-westerly winds were experienced over the island.

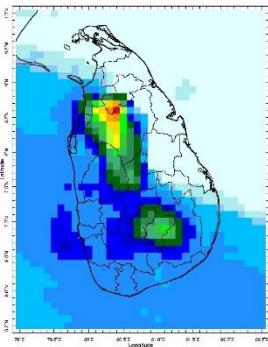
Monitored Sea & Land Temp



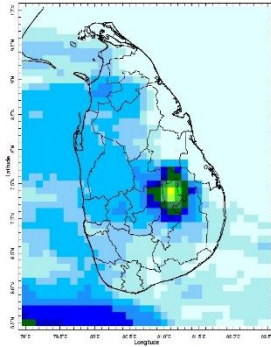
• Sea surface temperature was above 0.5 °C to the north and East of Sri Lanka. Land surface temperature remained near normal.

Monitoring Rainfall

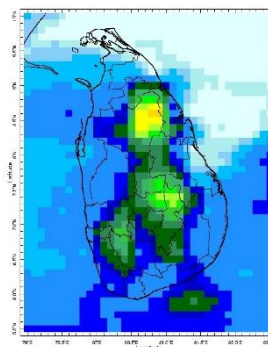
Daily Estimates for Rainfall from 19th July – 26th July 2022



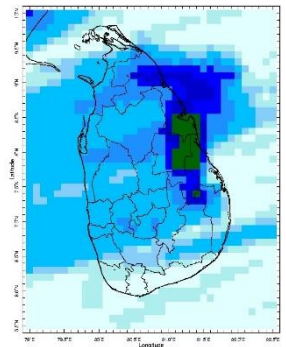
19 July



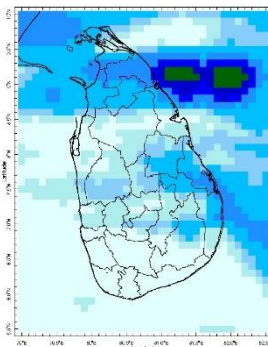
20 July



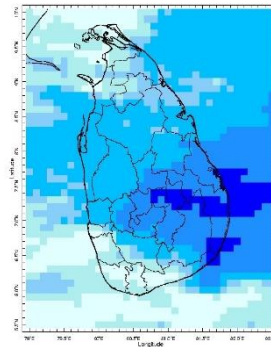
21 July



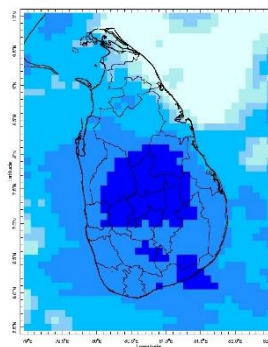
22 July



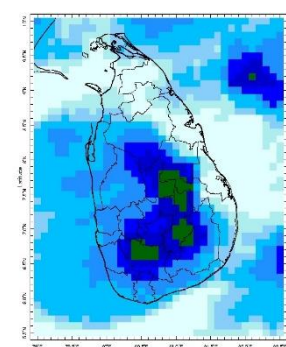
23 July



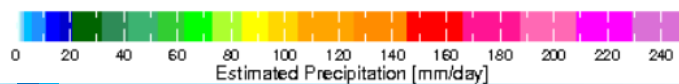
24 July



25 July



26 July



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Ocean State *(Text Courtesy IRI)*

Pacific sea state: July 20, 2022

Equatorial sea surface temperatures (SSTs) are below average across most of the Pacific Ocean in late July. The tropical Pacific Sea surface temperatures show a classical La Niña pattern. The tropical Pacific atmosphere is consistent with La Niña. A large majority of the models indicate, a La Niña is favored to continue through 2022 with the odds for La Niña decreasing into the Northern Hemisphere late summer (July - September 2022) before increasing through the Northern Hemisphere fall and early winter 2022.

Indian Ocean State

Sea surface temperature around Sri Lanka was above 0.5°C to the north and East of Sri Lanka. Across the Indian Ocean, a classical negative Indian Ocean Dipole prevails as is typical during a La Niña.

Predictions

Rainfall

14-day prediction: NOAA NCEP models

From 27th July – 2nd August:

Total rainfall by Provinces:

Rainfall	Provinces
>100 mm	Northern
95 mm	Southern
85 mm	Sabaragamuwa, Central, Uva
75 mm	Western, Eastern
55 mm	North-central, North-western

From 3rd August – 9th August:

Total rainfall by Provinces:

Rainfall	Provinces
>100 mm	Northern
25 mm	Sabaragamuwa, Western, Central
15 mm	Eastern, North-central, North-western, Uva, Southern

MJO based OLR predictions

For the next 15 days:

MJO shall slightly enhance the rainfall during 27th July - 5th August; and near-neutral during 6th August – 10th August.

Interpretation

Monitoring

Rainfall: During the last two weeks, there had been heavy rainfall over the following area: Galle

Daily Average Rainfall in the Met stations for previous week of (19th July - 26th July) = 6.7 mm
Rmax: 105.3 mm & Rmin: 0.0 mm.

Region	Average rainfall for the Last 8 days
Northern Plains	7.1 mm
Eastern	10.8 mm
Western	4.6 mm
Southern Plains	2.4 mm

The Hydro Catchment Areas recorded 11.6 mm of average rainfall for the last week
Rmax: 90.0 mm & Rmin: 0.0 mm.

Wind: South-westerly and North-westerly prevailed in the sea area and around the island last week.

Temperatures: The temperature anomalies were above normal for Sabaragamuwa province and below normal for the north-central and eastern provinces, driven by the warm SST's.

Predictions

Rainfall: During the next week (29th July - 2nd August) heavy rainfall is predicted for Jaffna districts and fairly heavy rainfall (50 – 100 mm) is expected for Central, Sabaragamuwa and Uva provinces and Galle and Matara districts.

Temperatures: The temperature remains above normal in the Northern province during 28th July – 3rd August.

Teleconnections:

La Niña - La Niña is favored to continue through 2022 with the odds for La Niña decreasing into the Northern Hemisphere late summer (July-September 2022) before increasing through the Northern Hemisphere fall and early winter 2022.

MJO shall slightly enhance the rainfall during 27th July - 5th August; and near-neutral during 6th August – 10th August.

Seasonal Precipitation:

The precipitation forecast for the August-September-October season shows a higher tendency for below-normal precipitation for the southern half of the country, while the remaining areas are more likely to experience near-normal precipitation.

Terminology for Rainfall Ranges

	Rainfall (During 24 hours of period)
Light Showers	Less than 12.5 mm
Light to Moderate	Between 12.5 mm and 25 mm
Moderate	Between 25 mm and 50 mm
Fairly Heavy	Between 50 mm and 100 mm
Heavy	Between 100 mm and 150 mm
Very Heavy	More than 150 mm

Tropical Climate Guarantee, Federation of Environment, Climate and Technology, Columbia University Water Center, ¹ International Research Institute for Climate and Society, , Earth Institute at Columbia University, New York.



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