

HIGHLIGHTS

Rainfall Prediction



• Moderate rainfall is predicted for Jaffna, Ratnapura, Galle and Matara districts; The rest of the country is expected to have less rainfall during 15th - 19th July.

Monitored Rainfalls



• During the last week, the average daily rainfall over Sri Lanka was 0.6 mm and hydro catchment areas have received 5.8 mm on average.

Monitored Wind



• From 4th - 10th July, up to 20 m/s of westerly to south-westerly winds were experienced over the island.

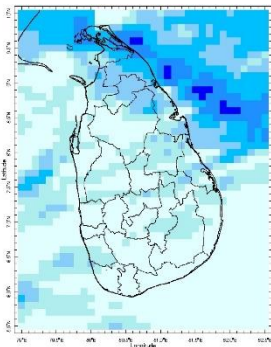
Monitored Sea & Land Temp



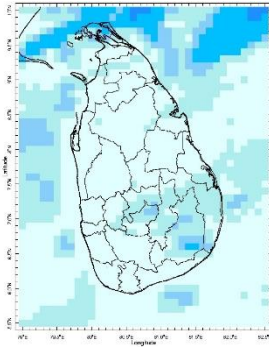
• Sea surface temperature was above 0.5 °C to the north of Sri Lanka. Land surface temperature remained near normal.

Monitoring Rainfall

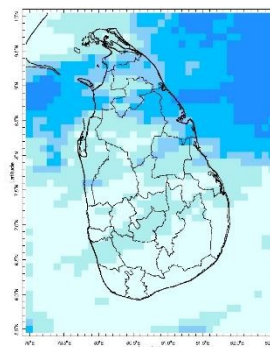
Daily Estimates for Rainfall from 5th July – 12th July 2022



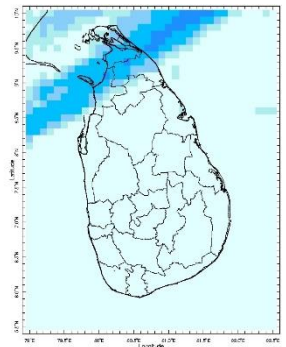
5 July



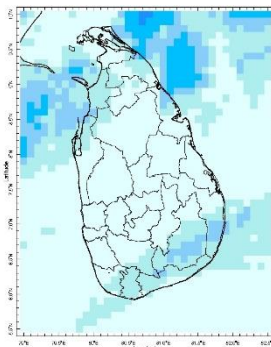
6 July



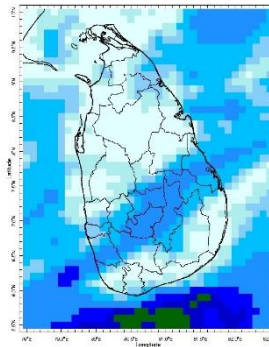
7 July



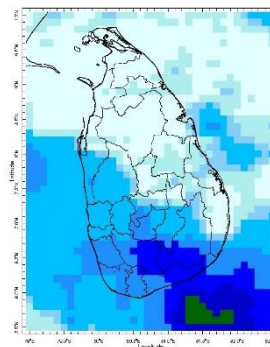
8 July



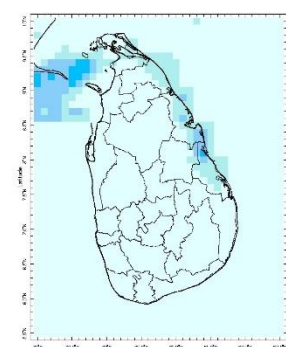
9 July



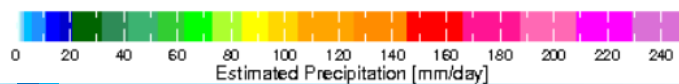
10 July



11 July



12 July



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Ocean State *(Text Courtesy IRI)*

Pacific sea state: July 6, 2022

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

Indian Ocean State

Sea surface temperature was above 0.5°C to the north of Sri Lanka.

Predictions

Rainfall

14-day prediction: NOAA NCEP models

From 13th – 19th July:

Total rainfall by Provinces:

Rainfall	Provinces
25 mm	Northern, Southern, Sabaragamuwa
<15 mm	Remaining Provinces

From 20th – 26th July:

Total rainfall by Provinces:

Rainfall	Provinces
55 mm	Northern
45 mm	Southern, Sabaragamuwa
35 mm	Uva, Central, Eastern, Western
25 mm	North-central, North-western

MJO based OLR predictions

For the next 15 days:

MJO shall near neutral for the country during 13th - 27th July.

Interpretation

Monitoring

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

Daily Average Rainfall in the Met stations for previous week of (5th July - 12th July) = 0.6 mm
Rmax: 33.7 mm & Rmin: 0.0 mm.

Region	Average rainfall for the Last 8 days
Northern Plains	0.0 mm
Eastern	0.2 mm
Western	1.3 mm
Southern Plains	0.0 mm

The Hydro Catchment Areas recorded 5.8 mm of average rainfall for the last week

Rmax: 56.5 mm & Rmin: 0.0 mm.

Wind: Westerly to south-westerly prevailed in the sea area surrounding the island last week.

Temperatures: The temperature anomalies were above normal for southern province, driven by the warm SST's.

Predictions

Rainfall: During the next week (15th - 19th July) moderate rainfall is predicted for Jaffna, Ratnapura, Galle and Matara districts. The rest of the country is expected to have less rainfall.

Temperatures: The temperature remains above normal in the Northern, North-central, Uva and Eastern provinces during 15th – 20th July.

Teleconnections:

La Niña - Though La Niña is favored to continue through the end of the year, the odds for La Niña decrease into the Northern Hemisphere late summer (July-September 2022) before slightly increasing through the Northern Hemisphere fall and early winter 2022.

MJO shall near neutral for the country during 13th - 27th July.

Seasonal Precipitation:

The precipitation forecast for the July-August-September season shows a higher tendency for above-normal precipitation for the Jaffna district, and for the rest of the districts there is a tendency to the neutral tercile.

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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