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## Day Impact on Weather Parameters Measurement at Synoptic Observation Stations in Bali

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Nyepi is a rare activity in the world that only exists in Bali, where all of human outdoor activities stop for a day. This study used Nyepi to measure its impact on changes in weather parameters measurement in Bali. The purpose of this study is to see the effect of Nyepi on the ratio of daily average temperature to duration of solar radiation as well as daily average air humidity at four synoptic stations in Bali. The data that we used are daily average air temperature, duration of solar radiation, and average air humidity from 1999-2020 on Nyepi. As a comparison, we used data from 2 days before and after Nyepi. Based on 22 years of data at the four location points, we obtained that the air temperature in the 5-day range fluctuates and shows a trend of decreasing daily average temperature during Nyepi for all stations. As for the daily average air humidity, the effect of Nyepi is only visible at the Ngurah Rai Meteorological Station as an increase. The average temperature to sunshine ratio during Nyepi, 2 days before and after Nyepi showed that the lowest ratio occurs at Denpasar Geophysical Station and Jembrana Climatology Station.

### Promotional text

Nyepi Day, a day for rest the world and refresh the air quality.

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