

Noise During Nyepi in Denpasar

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Nyepi is a rare activity in the world that only exists in Bali, where all human outdoor activities stop for a day. This study used Nyepi to measure its impact on ambient noise in Denpasar, the capital of Bali province. We used broadband and period seismometer, which operates 24 hours a day, to measure the difference before, during, and after Nyepi. Results of processing signal data using methods Horizontal-to-Vertical Spectral Ratio shows an increase in the dominant frequency during Nyepi, but fluctuating every hour. Overall, the 3-day data dominant frequency is in the range of 1.60-1.70 Hz. The amplification factor at the Nyepi day is at the lowest value compared to the day before and after Nyepi. The seismic vulnerability index when Nyepi is at its lowest value compared to the average before and after Nyepi. The current seismic vulnerability index value of Nyepi is 23 998. This value is 3.906 lower than the average day before and after Nyepi. This suggests that a decrease in human activity has an impact on decreasing the seismic vulnerability index.

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Promotional text

Nyepi for silent day, rest the world for a day.

Oral preference format

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