



Ministry for the  
**Environment**  
*Manatū Mō Te Taiao*

## Annual and Daily column ozone Dobson spectrophotometer measurements (1987–2013)

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| Title       | Annual and Daily column ozone Dobson spectrophotometer measurements (1987–2013)  |
| Publisher   | New Zealand's Environment Reporting Series: The Ministry for the Environment and Statistics<br>New Zealand   |
| Description | Ozone (O <sub>3</sub> ) is a gas that is of interest in two regions of Earth's atmosphere – at ground level and in the upper atmosphere (stratosphere). Stratospheric ozone absorbs ultraviolet (UV) rays from the sun and protects Earth from harmful levels of UV. Exposure to these UV rays has been linked to skin cancer. Monitoring variations in stratospheric ozone concentrations is important in New Zealand as we have high rates of skin cancers. This ozone data for Lauder was taken with Dobson spectrophotometer (72) from 1987 to 2013. Measurements are in Dobson units (DU). One DU represents the amount of ozone molecules needed to produce a 0.01mm layer of pure ozone. These datasets contain annual measurements by DOY and DOY statistics of mean, standard deviation, minimum and maximum. Further information can be found in: Liley, B, Querel, B, & McKenzie, R (2014). Measurements of Ozone and UV for New Zealand. Prepared for the Ministry for the Environment, Wellington. Available at <a href="https://data.mfe.govt.nz/x/LoPyPo">https://data.mfe.govt.nz/x/LoPyPo</a> on the Ministry for the Environment dataservice ( <a href="https://data.mfe.govt.nz/">https://data.mfe.govt.nz/</a> ). This dataset relates to the "Ozone concentrations" measure on the Environmental Indicators, Te taiao Aotearoa website. |
| Source      | National Institute for Water and Atmospheric Research  |
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| Rights      | <a href="http://creativecommons.org/licenses/by/3.0/nz/">http://creativecommons.org/licenses/by/3.0/nz/</a>  |
| Coverage    | 1987–2013; Lauder  |
| Identifier  | <a href="https://data.mfe.govt.nz/table/52562-annual-and-daily-column-ozone-dobson-spectrophotometer-measurements-19872013/">https://data.mfe.govt.nz/table/52562-annual-and-daily-column-ozone-dobson-spectrophotometer-measurements-19872013/</a>  |
| Type        | Dataset  |
| Language    | New Zealand English  |