

Watukosek ozone variation after more than ten years observation as part of the SHADOZ project

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Since 1998 Watukosek participated in a network of 13 (thirteen) Southern Hemisphere Tropical and Subtropical stations initiated by NASA called the Southern Hemisphere Additional Ozonesondes (SHADOZ) project. To investigate the changes of ozone mixing ratio and temperature in Watukosek after more than ten years observation, the ozone and temperature of 2008's sounding were compared with those of in 1998. The result showed that in general, Watukosek temperature at 2008 show higher compared to that in 1998. In the tropospheric region, the Ozone mixing ratio deviation almost similar (deviation showed only in few ppbv) but in the upper troposphere the ozone mixing ratio deviation showed ~ 2 ppmv at 10 hPa. The overpass of Watukosek total ozone in from 1998 to 2008 show the average of 255.14 DU + 8.46 DU, with the minimum of 228.6 DU and the maximum of 296.7 DU. The observation results of Watukosek ozone variation until the year of 2010 would also be analyze. Keywords: Ozone, SHADOZ.