



TOTAL OZONE COLUMN: BREWER AND TOMS CORRELATION FROM 1996 TO 2004 AT SOUTHERN BRAZIL

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The Total Ozone Column has been monitored at Southern Brazil by Brewer spectrophotometer and compared with TOMS data. Three different Brewer's models, MKIV (1996 – 2000), MKII (2000 – 2002) and MKIII (2002 – 2004) were used to obtain the ozone profile on 29.4°S, 53.8°W at the Southern Space Observatory – São Martinho da Serra from August 1996 to December 2004. The annual ozone average observed by Brewer was 278 ± 21 DU and for TOMS 274 ± 20 DU, where the averages for the lowest ozone concentrations for the Brewer's and TOM's data were observed during the Autumn, 238 ± 16 DU and 232 ± 8 DU and the higher averages during the Spring 325 ± 16 DU and 327 ± 14 DU respectively. At different sampling forms as direct sun (*ds*) by Brewer and back scattering by TOMS, the data presented a satisfactory correlation about 0.88. Soundings data and ozone profile at clear sky days are also presented.