

File Revision Date:

February 23, 2018

Data Set Description:

PI: Matt Tully
Instrument: Dobson
Site(s): Macquarie Island, Bureau of Meteorology
Measurement Quantities: Total column ozone

Contact Information:

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Reference Articles:

"Operations handbook - ozone observations with a Dobson spectrophotometer", W.D. Komhyr, Global Ozone Research and Monitoring Project. Report 6, World Meteorological Organization, Geneva, 1980.

Instrument Description:

Dobson Ozone Spectrophotometer numbers 6 and 12
(Observations made on CD wavelength pair during winter)

Algorithm Description:

Uses algorithm set out in "Operations handbook - ozone observations with a Dobson spectrophotometer", W.D. Komhyr, Global Ozone Research and Monitoring Project. Report 6, World Meteorological Organisation, Geneva,1980.

Uses Bass/Paur (1992) ozone absorption coefficients.

Expected Precision/Accuracy of Instrument:

"Review of the Dobson spectrophotometer and its accuracy", Reid E. Basher, Global Ozone Research and Monitoring Project. Report 13, World Meteorological Organization, Geneva,1982.

Instrument History:

9 Dec 1986 - 23 Dec 1993 : Dobson #006
23 Dec 1993 - 27 Nov 1997 : Dobson #012
20 Nov 1997 - 15 Mar 2002 : Dobson #006
15 Mar 2002 - 5 Apr 2006 : Dobson #012
6 Apr 2006 - 19 Mar 2017 : Dobson #006
20 Mar 2017 - : Dobson #012

Dobson #006 referenced to Regional Standard 1986,1997,2002,2006,2017

Dobson #012 referenced to Regional Standard 1993,2002,2015