

File Revision Date:
September 23, 2019

Data Set Description:

PI: Matt Tully
Instrument: Dobson
Site(s): Brisbane, 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 12 and 111

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 Organisation, Geneva,1982.

Instrument History:

25 Apr 1985 - 10 Jul 2006: Dobson 111
11 Jul 2006 - 24 Jan 2014: Dobson 12
21 Jan 2014 - : Dobson 111

Dobson #012 referenced to Regional Standard 1989, 1992, 1993, 1998, 2000, 2002 and 2015

Dobson #111 was referenced against the Regional Standard in 1985,1990,1998,2006,2008,2010,2013