

File Revision Date:

September 1, 2020

Data Set Description:

PI: Dr. Hugo De Backer  
Instrument: Brewer  
Site(s): Uccle, Royal Meteorological Institute  
Measurement Quantities: Total column ozone

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Reference Articles:

Brewer, A replacement for the Dobson spectrophotometer, Pure and Applied Geophys., 106-108, 919-927, 1973

De Backer and De Muer, Intercomparison of total ozone data measured with Dobson and Brewer ozone spectrophotometers at Uccle (Belgium) from January 1984 to March 1991, including zenith sky observations, J. Geophys. Res., 96, 20711-20719.

Instrument Description:

Brewer 016  
Brewer 178 (since Sep 2001)

Algorithm Description:

See Brewer Manual or:

De Backer, Zenith observations of total ozone in Uccle, Wetenschappelijke en technische publicatie nr 8, Koninklijk Meteorologisch Instituut, Edt. H. Malcorps, Brussel, Belgium, ISSN D/1998/0224/006, 1998

Expected Precision/Accuracy of Instrument:

same or better than Dobson Instrument.

Instrument History:

Installed in 1983, automated and calibrated by IOS in 1989

Calibrations by IOS in 1994, 2001, 2003, 2006, 2008

Calibrations by Kipp&Zonen in 2010, 2012, 2014, 2016

In November 2017 the instrument #016 was refurbished by Kipp&Zonen (new electronics).

Calibration by Kipp&Zonen (reference instrument 158) in May 2018 and July 2020

Brewer#178 participated in the calibrations in 2001, 2003, 2006, 2008, 2010, 2012, 2014, 2016, 2018 and 2020