

File Revision Date:

October 08, 2024

Data Set Description:

PI: Michael Gill

Instrument: Brewer

Site(s): Valentia Observatory

Measurement Quantities: Total Ozone Column (TOC)

Contact Information:

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Reference Articles:

Instrument Description:

Brewer MkIV #088 (1993 - 2021) - no longer in operation.

Brewer MkIII #227 (since 2021, has become the primary instrument replacing #088)

Brewer MkIII #259 (operational since 2022, secondary instrument to #227, to ensure continuity)

Algorithm Description:

Original Brewer algorithm as described in manual for Direct Sun observations

Zenith Sky observations are reported only on days with no Direct Sun observations

Expected Precision/Accuracy of Instrument:

Same or better than Dobson Instrument

6 Dobson units for Direct Sun observations

9 Dobson units for Zenith Sky observations

Instrument History:

Brewer #088 installed in 1993 by IOS. No longer operational.

Calibrations by IOS in 1994, 1996, 1998, 2000, 2002, 2004, 2006, 2008, 2010, 2012, 2014, 2016, 2018 & 2020.

Brewer #227 installed in 2015 by Kipp & Zonen (OTT).

Calibrations by IOS in 2016, 2018, 2020, 2022, 2023, 2024 & on a yearly basis for the foreseeable future.

Brewer #259 installed in 2022 by OTT.

Calibrations by IOS in 2023, 2024 & on a yearly basis for the foreseeable future.