

File Revision Date:

October 10, 2019

Data Set Description:

PI: Steven Colwell
Instrument: SAOZ
Site(s): Faraday and Rothera
Measurement Quantities: Total Ozone, NO₂am, NO₂pm

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Reference Articles:

Pommereau + Goutail 1988

Instrument Description:

Until 1997: Generic SAOZ, using 512 pixel diode array detector
After 2006: Generic SAOZ using 1024 pixel diode array detector, except 200 groove/mm grating

Algorithm Description:

Until 1997: Standard SAOZ, except daily ozone AMF's as in Roscoe et al., 2001 (J. Quant. Spectrosc. Radiat. Trans. 68, 327-336).
After 2006: WinDOAS analyses to create slant columns; daily ozone AMF's (Roscoe et al., 2001), and standard SAOZ NO₂ AMFs, to create vertical columns.

Expected Precision/Accuracy of Instrument:

Precision listed in data file. Accuracy as in Roscoe et al., 2001.

Instrument History:

Installed March 1990 at Faraday
Moved from Faraday November 1995
Installed at Rothera January 1996
New SAOZ installed in December 2006