

Publication	Station reported	Period of the measurements	Measurement technique (maximum pmol mol <sup>-1</sup> )	BrO vmr
Kreher et al. (1997)	Arrival Heights (77.8° S, 166.7° E)	3 months in 1995 (autumn and spring)	Zenith sky DOAS	~ 30
Frieß et al. (2004)	Neumayer (70.6° S, 8.2° W)	17 days during spring 1999 and 17 days during spring 2000	Zenith sky DOAS	~ 13
Schofield et al. (2006)	Arrival Heights (77.8° S, 166.7° E)	1 month and 22 days during spring 2002	Zenith sky and Direct Sun DOAS	~ 13
Saiz-Lopez et al. (2007a)	Halley (75.6° S, 26.5° W)	12 months, February 2004–February 2005 (i.e., summer, autumn, winter and spring)	LP-DOAS	20
Buys et al. (2013)	Halley (75.6° S, 26.5° W)	38 days during spring 2007	CIMS	13
Grilli et al. (2013)	Dumont d’Urville (66.7° S, 140° E)	4 days during summer 2011/2012	CEAS	<2
Roscoe et al. (2014)	Halley (75.6° S, 26.5° W)	2 months and 4 days during spring 2007	MAX-DOAS	~ 25
Frey et al. (2015)	Dome-C (75.1° S, 123.3° E)	1 month during summer 2011/2012	MAX-DOAS	~ 2–3
This work	Marambio (64.2° S, 56.6° W)	4.5 months in 2015 (spring, summer and part of autumn)	MAX-DOAS	26.0
This work	Belgrano (77.9° S, 34.6° W)	4.5 months in 2015 (spring, summer and part of autumn)	MAX-DOAS	8.1