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Supporting Information for

First reprocessing of Southern Hemisphere ADditional OZonesondes (SHADOZ) profile records: 3. Uncertainty in Ozone Profile and Total Column

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Table S1

Introduction

This supporting information used in Figure 7 of main article.

MLS & OZONESONDE OZONE CLIMATOLOGICAL 1-SIGMA UNCERTAINTY [DU]

hPa	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
						20-30 South						
15.60	2.39	2.10	2.40	3.24	5.06	5.61	5.55	5.67	5.43	4.83	4.29	3.22
13.51	2.73	2.37	2.60	3.41	4.95	5.45	5.99	5.70	5.44	5.02	4.60	3.62
11.70	2.99	2.57	2.71	3.35	4.43	5.06	5.77	5.08	4.94	4.71	4.39	3.65
10.13	3.06	2.67	2.66	3.19	3.88	4.73	5.00	4.07	4.06	3.99	3.83	3.34
8.77	2.74	2.37	2.32	2.65	3.10	4.13	3.86	3.08	3.07	3.01	3.09	2.77
						10-20 South						
15.60	1.86	1.73	1.77	2.42	3.60	5.14	6.15	7.26	6.91	5.73	4.41	3.22
13.51	2.19	1.81	2.21	3.08	4.19	5.75	6.79	7.62	7.25	6.11	4.70	3.46
11.70	2.48	2.13	2.79	3.58	4.43	5.88	6.57	6.89	6.64	5.74	4.42	3.35
10.13	2.51	2.31	2.90	3.43	4.18	5.45	5.53	5.49	5.38	4.75	3.73	2.89
8.77	2.27	2.16	2.56	2.72	3.31	4.21	3.79	3.92	3.77	3.40	2.88	2.35
						eq-10 South						
15.60	2.46	2.93	3.01	3.14	2.42	2.96	3.06	3.07	3.20	3.25	3.14	2.87
13.51	1.87	2.03	2.66	2.97	3.30	4.09	3.86	3.55	3.44	3.18	2.71	2.36
11.70	1.89	1.92	3.03	3.43	4.92	5.02	4.26	3.97	3.82	3.35	2.94	2.58
10.13	2.50	2.76	3.63	4.31	5.72	4.27	3.59	3.83	3.95	3.48	3.68	3.28
8.77	2.65	3.20	3.96	4.57	4.82	3.11	2.99	3.66	4.04	4.03	3.92	3.17
						eq-10 North						
15.60	3.07	3.59	3.75	3.68	3.03	1.89	1.82	1.37	1.48	2.10	3.13	3.28
13.51	3.09	3.29	3.84	3.74	3.30	2.41	2.05	1.68	1.82	2.35	3.35	3.48
11.70	3.41	3.47	4.38	4.18	4.03	3.22	2.39	2.29	2.62	3.02	3.92	3.94
10.13	3.79	3.80	4.61	4.49	4.42	2.94	2.22	2.64	3.27	3.71	4.51	4.39
8.77	3.69	3.82	4.32	4.30	3.60	2.35	2.22	2.80	3.52	4.08	4.51	4.10
						10-20 North						
15.60	5.14	4.68	4.23	3.55	3.27	2.62	2.81	2.77	2.71	2.53	3.12	4.44
13.51	5.85	5.14	4.70	4.01	3.31	2.35	2.21	2.44	2.68	2.57	3.37	5.04
11.70	5.86	5.32	5.20	4.65	3.47	2.38	1.83	2.03	2.46	2.46	3.40	5.09
10.13	5.16	5.00	5.24	4.79	3.49	2.55	1.79	1.70	2.18	2.29	3.30	4.61
8.77	3.81	3.91	4.34	3.85	2.85	2.27	1.81	1.56	1.92	2.06	2.69	3.57
						20-30 North						
15.60	5.52	6.52	6.32	4.70	3.44	2.81	2.79	2.96	3.35	3.78	5.09	5.72
13.51	5.87	6.93	6.23	4.72	3.65	2.74	2.38	2.49	2.96	3.47	4.97	5.97
11.70	5.60	6.59	5.61	4.56	3.70	2.82	2.10	2.01	2.41	3.00	4.65	5.61
10.13	4.84	5.62	4.65	4.14	3.37	2.87	2.14	1.86	2.06	2.74	4.32	4.81
8.77	3.75	4.21	3.49	3.22	2.59	2.40	2.04	1.70	1.79	2.39	3.65	3.68

Table S1. Look-up table of monthly mean ±1σ standard deviation of O_3 in units of DU. Values are computed from the *McPeters and Labow* [2012] O_3 climatology originally reported in units of ppmv. Values for the tropics and sub-tropics between 15-9 hPa are shown. Data are used in Figure 7 of the paper.