

790 **Supplementary information**

791 **Table captions Supplementary Information**

792

793 **Table S0.** WOUDC station geographical information, including the WOUDC
794 identification numbers. Station heights are in meters, N stands for the number of sonde
795 measurements available for the entire period 1996-2001.

796

797 **Table S1.** As Table 1, but for all available WOUDC sonde stations. TM5 evaluation of
798 UTLS O₃ columns (250-50 hPa) for a subset of available WOUDC sonde observations.
799 Locations are ordered according to their latitude. The statistics shown here are the
800 standard Pearson's correlation coefficient (R) for the six year period 1996-2001, the
801 correlation for monthly means (R_m), the correlation for the 6-year climatological
802 monthly means (R_{cl}), the average bias (Δ) and the root-mean-square differences (σ).
803 Biases and differences are in Dobson Units (DU; 2.69×10^{18} molecules/cm²). The bold
804 numbers indicate the better statistical values for the comparison of sonde measurements
805 and model results with and without assimilation. "better" refers to larger correlations,
806 smaller biases and smaller rms differences. Stations shown in Figure 2 are indicated in
807 grey. Statistics for all available sonde stations can be found in supplementary information
808 Table S1.

809

810 **Table S2.** As Table S1 but for the tropospheric O₃ columns, based on ECMWF
811 tropopause heights.

812

813 **Table S3.** As table S2 but for the TORA residuals, *i.e.* total O₃ column observations
814 minus assimilated stratospheric O₃ columns. Climatological monthly mean statistics were
815 not calculated due to insufficient sonde collocations for most sonde stations. Stations
816 shown in Figure 3 are indicated in grey. The bold numbers indicate statistics that have
817 improved compared to the TM5 CARIOLLE assimilation TTOC's (Table 2).

Station number, [name, country]	LAT	LON	ALT	N
stn018 [Alert, Canada]	82.5	-62.3	66	238
stn315 [Eureka, Canada]	80.0	-85.9	10	385
stn089 [Ny Alsend, Norway]	78.9	11.9	11	443
stn460 [Thule, Greenland]	76.5	-68.7	57	73
stn024 [Resolute, Canada]	74.7	-95.0	46	151
stn459 [Scoresbysund, Greenland]	70.5	-22.0	51	282
stn262 [Sodankyla, Finland]	67.4	26.6	179	223
stn404 [Jokioinen, Finland]	60.8	23.5	103	57
stn043 [Lerwick, United Kingdom]	60.1	-1.2	80	331
stn077 [Churchill, Canada]	58.7	-94.1	30	260
stn021 [Edmonton, Canada]	53.5	-114.1	766	277
stn076 [Goose Bay, Canada]	53.3	-60.4	36	264
stn221 [Legionowo, Poland]	52.4	21.0	96	381
stn174 [Lindenberg, Germany]	52.2	14.1	112	279
stn316 [de Bilt, the Netherlands]	52.1	5.2	4	300
stn257 [Vanscoy, Canada]	52.0	-107.0	510	5
stn318 [Valentia, Ireland]	51.9	-10.2	14	143
stn053 [Uccle, Belgium]	50.8	4.3	100	667
stn242 [Prague, Czechia]	50.0	14.4	304	274
stn099 [Hohenpeissenberg, Germany]	47.8	11.0	975	718
stn156 [Payerne, Switzerland]	46.5	6.6	491	946
stn040 [Haute Provence, France]	43.9	5.7	650	50
stn012 [Sapporo, Japan]	43.1	141.3	26	222
stn445 [Trinidad Head]	40.8	-124.2	0	74
stn308 [Madrid, Spain]	40.5	-3.6	631	201
stn067 [Boulder, USA]	40.0	-105.2	1689	47
stn348 [Ankara, Turkey]	40.0	32.9	891	105
stn107 [Wallops Island, USA]	37.8	-75.5	13	358
stn014 [Tateno, Japan]	36.1	140.1	31	312
stn418 [Huntsville, USA]	35.3	-86.6	196	104
stn336 [Ishfahan, Iran]	32.5	51.7	1550	24
stn007 [Kagoshima, Japan]	31.6	130.6	31	209
stn010 [New Delhi, India]	28.6	77.2	220	49
stn401 [Santa Cruz, Canary Islands]	28.5	-16.3	36	182
stn190 [Naha, Japan]	26.2	127.7	27	241
stn095 [Taipei, Taiwan]	25.0	121.4	11	49
stn344 [Hong Kong]	22.3	114.2	66	53
stn109 [Hilo, USA]	19.4	-155.0	0	125
stn187 [Poona, India]	18.5	73.8	559	37
stn205 [Thiruvananthapuram, India]	8.5	76.9	60	60
stn435 [Paramaribo, Surinam]	5.8	-55.2	7	107
stn443 [Sepang, Malaysia]	2.7	101.7	17	83
stn434 [San Cristobal, Ecuador]	-0.9	-89.6	8	178
stn175 [Nairobi, Kenya]	-1.3	36.8	1795	214
stn448 [Malindi, Kenya]	-3.0	40.2	-6	44
stn219 [Natal, Brazil]	-5.9	-35.2	32	90
stn437 [Watukosek, Indonesia]	-7.5	112.6	50	55
stn328 [Ascension Island]	-8.0	-14.4	91	199
stn191 [Samoa]	-14.2	-170.6	77	189
stn432 [Papeete, Tahiti]	-18.0	-149.0	2	143
stn438 [Suva, Fiji]	-18.1	178.4	6	145
stn436 [La Reunion]	-21.1	55.5	24	86
stn265 [Irene, South Africa]	-25.9	28.2	1524	83
stn441 [Easter Island, Chile]	-27.2	-109.4	69	49
stn394 [Broad Meadows, Australia]	-37.7	144.9	110	134
stn254 [Laverton, Australia]	-37.9	144.8	21	128
stn256 [Lauder, New Zealand]	-45.0	169.7	370	167
stn029 [Macquarie Island, Australia]	-54.5	158.9	7	219
stn233 [Marambio]	-64.2	-56.7	196	79
stn101 [Syowa, Antarctica]	-69.0	39.6	21	411
stn400 [Maitri, Antarctica]	-70.5	11.4	330	53
stn323 [Neumayer, Antarctica]	-70.7	-8.3	42	453

Station	lat	UTLS (250-50 hPa) assimilated GOME					UTLS (250-50 hPa) no assimilation				
		R	Rm	Rcl	Δ	σ	R	Rm	Rcl	Δ	σ
stn018	82.5	0.71	0.78	0.98	18.2	30.0	0.73	0.81	0.98	11.2	28.9
stn315	80.0	0.60	0.74	0.92	25.4	32.7	0.63	0.77	0.92	18.2	31.6
stn089	78.9	0.56	0.73	0.96	9.6	32.1	0.57	0.75	0.94	3.2	32.3
stn460	76.5	0.56	0.68	0.89	20.4	34.2	0.56	0.71	0.86	12.4	34.3
stn024	74.7	0.76	0.85	0.95	20.0	27.9	0.78	0.84	0.95	12.9	26.6
stn459	70.5	0.78	0.86	0.95	11.5	23.2	0.82	0.88	0.95	6.1	21.7
stn262	67.4	0.72	0.82	0.97	1.6	25.1	0.76	0.85	0.97	-2.0	23.5
stn404	60.8	0.84	0.94	0.94	6.0	20.6	0.87	0.93	0.93	2.9	19.1
stn043	60.1	0.79	0.89	0.98	6.5	23.8	0.85	0.93	0.99	3.1	20.8
stn077	58.7	0.82	0.89	0.98	17.8	26.5	0.84	0.91	0.98	9.6	24.6
stn021	53.5	0.78	0.91	0.99	10.7	23.6	0.82	0.92	1.00	4.5	21.5
stn076	53.3	0.86	0.92	0.99	12.2	20.2	0.88	0.93	0.99	4.0	18.4
stn221	52.4	0.74	0.86	0.98	6.3	25.6	0.82	0.91	0.99	0.8	22.0
stn174	52.2	0.74	0.84	0.98	10.6	25.6	0.80	0.89	0.97	5.7	22.7
stn316	52.1	0.73	0.85	0.97	-1.3	23.1	0.80	0.89	0.98	-6.2	20.3
stn257	52.0	0.85			1.4	7.8	0.85			-4.7	8.3
stn318	51.9	0.67	0.78	0.90	0.4	27.3	0.75	0.88	0.95	-2.9	24.6
stn053	50.8	0.75	0.88	0.96	0.4	20.6	0.84	0.94	0.98	-5.4	17.0
stn242	50.0	0.65	0.65	0.98	8.9	30.7	0.78	0.82	0.94	3.2	25.8
stn099	47.8	0.74	0.86	0.97	8.9	24.7	0.81	0.91	0.98	3.2	21.8
stn156	46.5	0.76	0.88	0.98	1.4	19.2	0.84	0.93	0.99	-4.0	15.9
stn040	43.9	0.72	0.75	-0.75	-10.2	22.1	0.81	0.84	0.02	-12.2	18.1
stn012	43.1	0.88	0.95	1.00	-0.9	20.2	0.92	0.96	0.99	-10.3	16.6
stn445	40.8	0.77	0.80	0.89	-1.0	21.3	0.83	0.87	0.94	-7.9	18.2
stn308	40.5	0.76	0.77	0.88	-0.9	17.7	0.85	0.88	0.96	-6.5	14.6
stn067	40.0	0.84	0.96		-9.1	14.6	0.84	0.96		-12.1	14.4
stn348	40.0	0.85	0.88	0.98	1.9	17.8	0.89	0.90	0.98	-5.1	15.3
stn107	37.8	0.72	0.81	0.97	5.8	20.8	0.74	0.82	0.98	0.8	20.0
stn014	36.1	0.83	0.94	0.98	-18.2	14.9	0.87	0.95	0.99	-25.4	14.1
stn418	35.3	0.78	0.84	0.92	-6.1	11.5	0.81	0.87	0.95	-12.2	11.5
stn336	32.5	0.73	0.73	0.74	-3.8	15.3	0.76	0.76	0.80	-7.6	14.7
stn007	31.6	0.77	0.82	0.96	-8.6	9.0	0.77	0.82	0.95	-12.3	9.4
stn010	28.6	0.20	0.25	0.44	-5.5	16.9	0.25	0.29	0.44	-7.2	16.6
stn401	28.5	0.78	0.81	0.94	-6.3	10.9	0.80	0.86	0.94	-10.8	10.7
stn190	26.2	0.45	0.48	0.60	-11.7	7.7	0.47	0.54	0.69	-14.2	8.1
stn095	25.0	0.60	0.51	0.29	-7.3	7.3	0.62	0.52	0.26	-9.7	7.5
stn344	22.3	0.69	0.72	0.92	-5.6	6.1	0.67	0.70	0.95	-7.5	6.5
stn109	19.4	0.68	0.79	0.88	-1.9	6.8	0.66	0.75	0.87	-3.8	7.2
stn187	18.5	0.29	0.28	0.44	4.3	18.6	0.28	0.29	0.39	3.3	18.6
stn205	8.5	0.26	0.44	0.82	1.4	10.8	0.22	0.44	0.85	0.8	11.0
stn435	5.8	0.43	0.58	0.80	2.3	5.3	0.34	0.55	0.78	1.0	6.1
stn443	2.7	0.42	0.58	0.93	2.8	4.9	0.41	0.58	0.90	2.2	5.0
stn434	-0.9	0.33	0.43	0.69	-4.0	5.3	0.32	0.42	0.67	-4.5	5.5
stn175	-1.3	0.46	0.62	0.85	0.2	4.9	0.45	0.61	0.84	-0.9	5.1
stn448	-3.0	0.40	0.51	0.67	2.7	4.2	0.44	0.58	0.77	1.0	4.3
stn219	-5.9	0.37	0.53	0.87	-3.1	5.3	0.29	0.49	0.82	-4.1	5.8
stn437	-7.5	0.41	0.43	0.75	-0.9	4.5	0.34	0.36	0.69	-1.2	4.8
stn328	-8.0	0.49	0.68	0.83	-0.6	5.1	0.44	0.64	0.77	-1.6	5.5
stn191	-14.2	0.71	0.81	0.91	-4.3	3.9	0.70	0.81	0.92	-5.0	4.2
stn432	-18.0	0.74	0.83	0.89	-4.4	5.0	0.74	0.83	0.92	-5.4	5.3
stn438	-18.1	0.57	0.67	0.93	-4.7	8.7	0.62	0.70	0.95	-6.3	8.5
stn436	-21.1	0.65	0.73	0.77	-1.5	5.9	0.63	0.66	0.68	-3.2	7.0
stn265	-25.9	0.72	0.78	0.80	0.0	6.2	0.70	0.77	0.81	-1.9	7.1
stn441	-27.2	0.55	0.77	0.34	-3.3	25.4	0.57	0.80	0.40	-5.1	24.8
stn394	-37.7	0.81	0.91	0.96	-1.5	15.5	0.82	0.92	0.97	-9.2	15.1
stn254	-37.9	0.77	0.86	0.95	-4.1	15.8	0.84	0.90	0.97	-8.6	13.6
stn256	-45.0	0.83	0.94	0.97	0.5	15.8	0.88	0.96	0.98	-6.4	13.3
stn029	-54.5	0.71	0.80	0.95	1.0	20.5	0.79	0.84	0.97	-5.8	18.1
stn233	-64.2	0.48	0.39	0.59	-10.3	29.1	0.55	0.49	0.56	-14.4	27.7
stn101	-69.0	0.53	0.65	0.75	-8.7	35.3	0.66	0.72	0.78	-12.5	32.8
stn400	-70.5	0.53	0.58	0.84	-18.5	35.2	0.66	0.68	0.88	-22.6	31.6
stn323	-70.7	0.61	0.70	0.78	-15.0	31.5	0.76	0.81	0.87	-17.8	27.3

Table S1.

Station	lat	TTOC (surf-tropP) assimilated GOME					TTOC (surf-tropP) no assimilation				
		R	Rm	Rcl	Δ	σ	R	Rm	Rcl	Δ	σ
stn018	82.5	0.43	0.56	0.67	-7.6	6.7	0.50	0.59	0.60	-7.4	5.7
stn315	80.0	0.48	0.43	0.47	-3.8	6.7	0.57	0.49	0.40	-3.9	5.3
stn089	78.9	0.43	0.58	0.86	-4.0	7.7	0.53	0.73	0.94	-4.7	6.6
stn460	76.5	0.47	0.62	0.57	-3.9	5.6	0.55	0.69	0.48	-4.9	4.9
stn024	74.7	0.41	0.38	0.67	-6.8	7.8	0.46	0.50	0.72	-6.0	6.6
stn459	70.5	0.54	0.67	0.94	-3.0	6.4	0.64	0.72	0.94	-4.7	4.9
stn262	67.4	0.48	0.67	0.69	-5.7	8.0	0.74	0.81	0.90	-8.1	4.8
stn404	60.8	0.07	0.29	0.53	-1.9	8.5	0.48	0.58	0.82	-7.7	5.8
stn043	60.1	0.47	0.64	0.86	-3.6	8.1	0.71	0.82	0.94	-6.5	4.6
stn077	58.7	0.45	0.61	0.93	-3.9	8.3	0.54	0.71	0.90	-5.1	6.6
stn021	53.5	0.48	0.66	0.83	-5.4	6.2	0.59	0.73	0.90	-6.1	5.0
stn076	53.3	0.62	0.78	0.94	-6.5	7.3	0.73	0.82	0.94	-7.6	5.0
stn221	52.4	0.42	0.64	0.83	-2.4	9.4	0.69	0.86	0.94	-5.9	6.0
stn174	52.2	0.41	0.72	0.81	1.1	10.1	0.66	0.82	0.91	-3.0	6.3
stn316	52.1	0.29	0.36	0.70	-7.0	10.7	0.57	0.64	0.83	-10.7	6.6
stn257	52.0	0.03			-3.1	8.2	0.78			-5.8	3.8
stn318	51.9	0.51	0.73	0.97	-3.6	7.0	0.55	0.73	0.85	-6.7	6.2
stn053	50.8	0.37	0.70	0.85	-3.9	10.1	0.58	0.83	0.89	-7.7	6.3
stn242	50.0	0.43	0.86	1.00	-3.0	8.3	0.56	0.82	0.99	-5.8	5.9
stn099	47.8	0.51	0.75	0.84	-1.5	7.9	0.65	0.80	0.90	-3.9	5.7
stn156	46.5	0.51	0.79	0.86	-1.5	8.2	0.65	0.83	0.90	-4.2	6.1
stn040	43.9	0.48	0.59	0.77	-7.8	7.8	0.67	0.68	0.92	-9.7	5.7
stn012	43.1	0.65	0.76	0.92	-7.9	7.6	0.80	0.89	0.98	-7.7	5.4
stn445	40.8	0.36	0.51	0.85	-3.8	13.1	0.48	0.59	0.88	-4.5	11.6
stn308	40.5	0.55	0.67	0.80	-3.3	8.0	0.61	0.68	0.78	-4.2	6.9
stn067	40.0	0.54	0.82		-2.6	6.3	0.53	0.79		-2.7	6.3
stn348	40.0	0.56	0.57	0.76	-5.1	8.4	0.78	0.80	0.86	-7.2	5.7
stn107	37.8	0.67	0.83	0.93	-3.3	8.0	0.74	0.87	0.95	-4.1	6.4
stn014	36.1	0.55	0.75	0.92	-4.4	9.0	0.68	0.86	0.97	-4.6	7.2
stn418	35.3	0.58	0.68	0.76	-3.3	8.5	0.66	0.77	0.81	-4.7	6.9
stn336	32.5	0.44	0.44	0.68	5.6	14.2	0.55	0.55	0.68	-0.7	12.5
stn007	31.6	0.68	0.79	0.90	-6.6	7.8	0.72	0.78	0.91	-8.8	6.9
stn010	28.6	0.14	0.16	0.27	12.7	22.7	0.13	0.20	0.36	10.2	22.5
stn401	28.5	0.59	0.74	0.86	-6.1	9.2	0.63	0.83	0.91	-6.7	8.1
stn190	26.2	0.60	0.66	0.72	-9.6	8.0	0.60	0.65	0.68	-11.5	7.7
stn095	25.0	0.50	0.55	0.53	-1.1	8.9	0.57	0.60	0.66	-4.1	8.3
stn344	22.3	0.49	0.69	0.93	-0.4	7.9	0.49	0.58	0.76	-3.7	7.2
stn109	19.4	0.75	0.86	0.93	-10.9	6.8	0.77	0.86	0.93	-11.6	6.4
stn187	18.5	-0.03	0.07	0.37	4.7	13.4	-0.01	0.08	0.37	2.6	13.2
stn205	8.5	0.18	0.09	0.56	3.0	13.4	0.20	0.10	0.55	2.5	13.1
stn435	5.8	0.19	0.22	0.22	-2.7	6.5	0.33	0.55	0.74	-4.0	5.7
stn443	2.7	0.11	0.28	-0.19	-8.9	4.5	0.19	0.28	-0.05	-10.9	3.6
stn434	-0.9	0.57	0.68	0.85	-11.3	3.9	0.51	0.65	0.82	-13.4	4.0
stn175	-1.3	0.34	0.24	0.35	-1.8	5.5	0.43	0.34	0.27	-2.9	5.0
stn448	-3.0	0.26	0.07	-0.11	-0.5	6.5	0.30	0.13	-0.14	-2.6	6.2
stn219	-5.9	0.61	0.74	0.89	-3.1	6.5	0.67	0.76	0.90	-4.3	6.2
stn437	-7.5	0.42	0.38	0.70	-7.6	5.1	0.54	0.63	0.74	-10.5	4.3
stn328	-8.0	0.57	0.66	0.94	2.8	7.8	0.64	0.74	0.97	1.3	7.4
stn191	-14.2	0.62	0.64	0.74	-13.3	5.4	0.68	0.70	0.81	-15.0	4.8
stn432	-18.0	0.59	0.75	0.81	-13.3	6.3	0.65	0.78	0.84	-15.1	5.3
stn438	-18.1	0.69	0.77	0.86	-12.3	6.1	0.70	0.77	0.86	-15.4	5.7
stn436	-21.1	0.54	0.66	0.78	-1.2	7.0	0.69	0.76	0.84	-6.5	5.7
stn265	-25.9	0.28	0.33	0.73	0.6	8.0	0.38	0.41	0.69	-5.6	6.9
stn441	-27.2	0.47	0.54	0.58	-10.3	7.9	0.52	0.70	0.72	-9.9	7.2
stn394	-37.7	0.33	0.36	0.59	0.3	7.9	0.54	0.71	0.79	-2.1	5.8
stn254	-37.9	0.39	0.50	0.86	-1.4	7.9	0.47	0.65	0.90	-1.2	6.7
stn256	-45.0	0.43	0.45	0.62	-4.6	6.4	0.64	0.72	0.73	-6.3	3.8
stn029	-54.5	0.36	0.53	0.75	-1.7	7.7	0.63	0.70	0.69	-2.7	5.0
stn233	-64.2	0.33	0.66	0.75	-2.7	9.2	0.52	0.69	0.79	-2.1	7.0
stn101	-69.0	0.26	0.41	0.67	-1.4	9.1	0.42	0.46	0.63	-0.9	6.3
stn400	-70.5	0.09	0.12	0.61	0.5	22.2	0.30	0.33	0.84	2.2	20.1
stn323	-70.7	0.39	0.50	0.60	-6.2	7.3	0.64	0.65	0.64	-5.7	3.8

Table S2.

Station	lat	TORA residual GDP v4.1 minus TM5/GOME			
		R	Rm	Δ	σ
stn018	82.5	-0.16	-0.23	-8.6	32.1
stn315	80.0	-0.03	-0.05	0.1	38.7
stn089	78.9	0.03	0.08	8.4	38.9
stn460	76.5	-0.03	-0.09	-8.0	33.5
stn024	74.7	-0.10	0.06	-10.9	31.9
stn459	70.5	0.00	0.03	-11.9	29.7
stn262	67.4	-0.38	-0.64	-0.2	20.4
stn404	60.8	0.25	0.40	13.4	22.5
stn043	60.1	0.02	0.06	-7.8	35.8
stn077	58.7	-0.31	-0.34	-17.2	25.9
stn021	53.5	-0.04	-0.10	-14.4	25.9
stn076	53.3	0.03	0.04	-10.2	26.2
stn221	52.4	0.11	0.22	1.7	28.8
stn174	52.2	0.02	0.09	-0.3	28.4
stn316	52.1	0.06	0.08	-9.4	24.3
stn257	52.0	0.94		-14.5	6.0
stn318	51.9	0.06	0.22	4.7	24.7
stn053	50.8	0.23	0.57	-4.4	23.3
stn242	50.0	-0.09	-0.16	-0.3	30.6
stn099	47.8	0.13	0.23	-1.5	26.0
stn156	46.5	0.25	0.29	-1.4	25.2
stn040	43.9	0.06	0.02	0.6	20.7
stn012	43.1	0.27	0.23	-15.1	25.6
stn445	40.8	0.10	0.27	-2.4	31.6
stn308	40.5	0.54	0.60	5.3	21.1
stn067	40.0	0.38	0.59	9.9	18.6
stn348	40.0	0.09	0.09	-3.8	20.0
stn107	37.8	0.24	0.39	-1.4	21.3
stn014	36.1	0.27	0.40	-2.7	24.1
stn418	35.3	0.44	0.52	-1.0	20.8
stn336	32.5	0.46	0.46	3.8	21.7
stn007	31.6	0.43	0.46	-8.2	15.7
stn401	28.5	0.17	0.04	3.6	18.2
stn190	26.2	0.32	0.38	-3.8	16.3
stn095	25.0	0.34	0.24	-2.7	15.2
stn344	22.3	0.43	0.76	0.4	12.0
stn109	19.4	0.35	0.42	-10.6	17.2
stn187	18.5	0.19	0.30	9.6	14.9
stn205	8.5	-0.11	-0.11	3.2	15.5
stn435	5.8	0.05	-0.05	-1.4	14.2
stn443	2.7	-0.21	-0.18	-13.6	7.4
stn434	-0.9	0.46	0.40	-11.0	10.6
stn175	-1.3	0.47	0.44	-4.5	14.3
stn448	-3.0	0.24	0.24	3.0	12.4
stn219	-5.9	0.59	0.74	-5.6	11.7
stn437	-7.5	0.26	0.24	-12.0	9.6
stn328	-8.0	0.47	0.47	-3.7	12.3
stn191	-14.2	0.37	0.41	-11.4	12.1
stn432	-18.0	0.40	0.44	-8.9	13.0
stn438	-18.1	0.39	0.45	-15.2	17.6
stn436	-21.1	0.62	0.61	-17.9	18.7
stn265	-25.9	0.42	0.41	-12.3	13.5
stn441	-27.2	0.37	0.28	2.7	17.7
stn394	-37.7	0.25	0.25	3.0	20.6
stn254	-37.9	-0.22	-0.08	8.4	33.1
stn256	-45.0	0.28	0.34	-11.6	23.9
stn029	-54.5	0.18	0.30	-0.7	28.6
stn233	-64.2	-0.28	-0.48	56.8	46.5
stn101	-69.0	-0.21	-0.39	53.1	46.7
stn400	-70.5	-0.30	-0.69	46.1	44.3
stn323	-70.7	-0.43	-0.73	50.9	41.4

Table S3.