Table 1. Median mixing ratios in pptv (unless stated) for selected NMHCs, CO and Ozone for 2.5°N latitude increments averaged over the western Pacific (west of 165°E) during PEM-West B (PWB) and TRACE-P (TrP). Delta values are the difference between PWB and TrP values for that latitude band.

0-2 km, <165E

Latitude	Ethane			Ethene			Ethyne			Propane			Benzene			CO, ppbv			ethyne/CO			Ozone, ppbv		
Range, °N	PWB	TrP	Delta	PWB	TrP	Delta	PWB	TrP	Delta	PWB	TrP	Delta	PWB	TrP	Delta	PWB	TrP	Delta	PWB	TrP	Delta	PWB	TrP	Delta
7.5-10	862	711	-151	22	29	7	289	190	-100	75	53	-22	51	39	-12	146	110	-36	1.9	1.6	-0.2	26	22	-4
12.5-15	933	812	-121	41	9	-32	319	146	-173	110	79	-31	58	27	-32	145	106	-39	1.8	1.4	-0.4	33	25	-8
15-17.5	1073	1016	-57	8	3	-5	262	221	-41	153	92	-61	45	47	2	133	123	-10	2.0	1.8	-0.2	29	26	-4
17.5-20	2160	968	-1193	118	5	-113	1367	211	-1156	458	113	-345	261	48	-214	336	130	-206	4.1	1.6	-2.5	61	27	-34
20-22.5	2220	1695	-525	319	31	-288	1033	521	-512	809	430	-379	236	114	-122	249	186	-63	4.0	2.6	-1.4	47	46	-1
22.5-25	1983	1515	-468	110	20	-90	746	442	-304	691	321	-371	159	100	-60	203	175	-29	3.7	2.5	-1.1	48	50	3
25-27.5	1965	1747	-217	63	46	-17	620	525	-95	726	540	-187	128	125	-4	162	187	24	3.8	2.9	-0.9	47	51	4
27.5-30	2088	2143	55	80	93	14	713	713	0	773	683	-90	127	173	45	168	208	40	4.2	3.3	-0.9	45	57	12
30-32.5	2338	2352	13	97	85	-12	797	779	-18	928	769	-159	146	211	65	169	234	64	4.4	3.4	-1.1	42	64	23
32.5-35	2601	2003	-598	214	75	-139	1038	618	-420	1113	610	-503	202	174	-28	205	207	1	5.1	3.1	-2.0	43	58	15
35-37.5	2711	2363	-348	341	118	-223	1113	773	-341	1209	819	-390	218	188	-30	204	234	30	5.3	3.5	-1.7	39	58	20
37.5-40	2800	2383	-417	385	65	-320	1142	713	-429	1283	802	-481	228	168	-59	209	189	-20	5.5	3.6	-1.9	38	57	18
40-42.5	2909	2123	-786	340	36	-304	1045	618	-426	1458	704	-754	214	134	-80	207	183	-24	5.0	3.5	-1.6	37	53	16
Average	2049	1679	-370	164	47	-117	806	498	-309	753	463	-290	160	119	-41	195	175	-20	3.9	2.7	-1.2	41	46	4
Std Dev	695	619	353	137	37	126	357	234	311	454	298	220	74	63	72	54	44	66	1.3	0.8	0.7	9	15	15

2-8 km, <165E

Latitude	Ethane			Ethene			Ethyne			Propane			Benzene			CO, ppbv			ethyne/CO			Ozone, ppbv		
Range, °N	PWB	TrP	Delta	PWB	TrP	Delta	PWB	TrP	Delta	PWB	TrP	Delta	PWB	TrP	Delta	PWB	TrP	Delta	PWB	TrP	Delta	PWB	TrP	Delta
5-7.5	642	495	-148	6	0	-6	86	72	-14	64	25	-39	15	13	-2	48	31	-18	0.9	1.0	0.1	91	77	-15
7.5-10	680	556	-123	14	1	-13	119	99	-21	63	29	-35	19	16	-3	46	40	-6	1.1	1.1	0.0	104	88	-16
10-12.5	556	564	8	5	0	-5	76	99	23	45	27	-18	8	14	5	51	47	-4	0.9	1.1	0.2	88	88	0
12.5-15	615	604	-11	6	1	-4	90	108	17	53	40	-13	12	19	7	51	46	-5	0.9	1.2	0.2	94	92	-3
15-17.5	634	638	3	5	0	-4	92	106	15	58	43	-15	14	15	1	52	47	-5	1.0	1.2	0.2	94	93	0
17.5-20	593	699	105	5	1	-4	86	158	72	44	73	29	13	26	12	64	50	-15	0.9	1.5	0.5	94	105	10
20-22.5	743	910	167	13	8	-5	155	251	96	86	98	12	30	40	9	50	50	0	1.4	1.8	0.4	106	124	18
22.5-25	1190	832	-358	43	7	-36	426	220	-207	178	107	-71	80	41	-39	47	53	6	2.3	1.8	-0.5	156	120	-36
25-27.5	1459	885	-574	29	12	-17	467	291	-176	391	96	-295	76	51	-25	46	58	11	3.1	1.9	-1.2	153	134	-19
27.5-30	1652	1156	-496	46	13	-33	469	367	-102	447	205	-242	82	63	-18	44	60	16	3.0	2.3	-0.7	144	149	4
30-32.5	1756	1324	-431	39	29	-10	529	369	-159	492	296	-196	88	76	-13	44	61	17	3.5	2.5	-1.0	151	150	-1
32.5-35	1611	1454	-157	30	14	-16	408	357	-50	443	331	-112	67	67	0	46	61	15	3.0	2.5	-0.5	139	146	7
35-37.5	1707	1669	-37	28	49	21	446	429	-17	572	435	-137	64	95	30	44	61	18	3.3	2.7	-0.6	138	161	23
37.5-40	1673	1743	70	33	43	10	430	459	28	541	439	-102	58	101	43	44	60	16	2.9	2.4	-0.5	135	165	30
40-42.5	2063	2116	53	65	45	-20	604	618	14	757	629	-128	96	128	32	43	60	17	3.7	3.2	-0.5	160	180	19
42.5-45	2527	1999	-528	172	39	-133	878	545	-334	1033	624	-410	165	105	-60	41	68	27	4.3	3.2	-1.2	198	172	-26
45-47.5	1926	1725	-201	58	27	-32	566	423	-144	694	463	-231	79	74	-5	56	69	13	3.4	2.7	-0.7	159	153	-5
Average	1296	1139	-156	35	17	-18	349	292	-56	351	233	-118	57	55	-1	48	54	6	2.3	2.0	-0.3	130	129	-1
Std Dev	630	550	238	40	18	33	239	171	114	306	215	122	42	37	25	6	10	13	1.2	0.8	0.5	32	33	18

Table 2. Median mixing ratios in pptv (unless stated) for selected halocarbons for 2.5°N latitude increments averaged over the western Pacific (west of 165°E) during PEM-West B (PWB) and TRACE-P (TrP). Delta values are the difference between PWB and TrP values for that latitude band.

0-2 km, <165E

Latitude Range, °N	CFC-12			CFC-11			H-1211			CH_3CCl_3			CCl_4			C_2Cl_4			CH_3Cl			CH_3Br		
	PWB	TrP	**Delta**	PWB	TrP	**Delta**	PWB	TrP	**Delta**	PWB	TrP	**Delta**	PWB	TrP	**Delta**	PWB	TrP	**Delta**	PWB	TrP	**Delta**	PWB	TrP	**Delta**
7.5-10	518	538	**21**	273	261	**-13**	2.8	4.3	**1.5**	127	39	**-87**	108.4	99.4	**-9.0**	7.6	3.7	**-3.8**	618	580	**-38**	10.1	8.3	**-1.9**
12.5-15	522	540	**18**	278	261	**-17**	3.0	4.3	**1.3**	126	40	**-86**	108.1	99.2	**-8.9**	8.7	4.4	**-4.3**	600	564	**-36**	9.9	8.5	**-1.4**
15-17.5	514	539	**25**	275	261	**-14**	2.9	4.8	**2.0**	131	40	**-91**	108.6	99.7	**-8.9**	10.8	5.9	**-4.9**	573	563	**-10**	9.7	8.8	**-0.9**
17.5-20	520	539	**19**	276	261	**-15**	3.9	4.3	**0.4**	126	40	**-86**	108.0	99.2	**-8.8**	13.3	4.8	**-8.6**	662	549	**-113**	12.3	8.6	**-3.7**
20-22.5	524	539	**15**	278	262	**-16**	3.2	4.4	**1.2**	134	41	**-94**	110.1	100.1	**-10.1**	20.9	8.3	**-12.6**	624	569	**-55**	12.8	9.1	**-3.7**
22.5-25	523	539	**16**	277	261	**-16**	3.0	4.4	**1.4**	132	41	**-91**	108.5	100.3	**-8.3**	17.6	7.6	**-10.0**	579	571	**-8**	11.0	9.1	**-2.0**
25-27.5	522	540	**17**	276	262	**-14**	2.9	4.6	**1.7**	137	41	**-96**	108.7	100.2	**-8.4**	22.9	9.1	**-13.8**	552	577	**25**	10.4	9.4	**-1.0**
27.5-30	522	539	**17**	275	262	**-13**	3.0	4.4	**1.5**	138	41	**-97**	108.3	100.3	**-8.0**	23.4	11.3	**-12.1**	561	571	**10**	11.9	9.1	**-2.7**
30-32.5	521	541	**20**	275	263	**-12**	3.1	4.5	**1.4**	131	42	**-89**	108.2	101.1	**-7.2**	22.3	15.1	**-7.1**	554	597	**43**	11.9	9.7	**-2.2**
32.5-35	524	540	**16**	276	262	**-14**	3.0	4.4	**1.3**	137	41	**-96**	109.0	100.2	**-8.8**	29.2	13.4	**-15.8**	550	554	**4**	12.2	9.8	**-2.4**
35-37.5	524	540	**17**	276	263	**-13**	3.0	4.4	**1.4**	133	42	**-91**	109.4	100.3	**-9.1**	24.0	13.2	**-10.8**	567	566	**-1**	11.7	9.8	**-1.9**
37.5-40	523	538	**15**	276	261	**-14**	3.0	4.3	**1.3**	131	42	**-90**	108.6	99.6	**-8.9**	22.5	12.4	**-10.1**	551	546	**-4**	11.5	10.0	**-1.5**
40-42.5	526	541	**15**	277	262	**-15**	3.2	4.2	**1.1**	131	42	**-89**	109.4	100.1	**-9.2**	22.4	11.6	**-10.8**	556	538	**-18**	11.9	9.3	**-2.7**
Average	522	540	**18**	276	262	**-14**	3.1	4.4	**1.3**	132	41	**-91**	108.7	100.0	**-8.7**	18.9	9.3	**-9.6**	580	565	**-15**	11.3	9.2	**-2.1**
Std Dev	3	1	**3**	1	1	**1**	0.3	0.2	**0.4**	4	1	**4**	0.6	0.5	**0.7**	6.7	3.8	**3.7**	35	16	**39**	1.0	0.5	**0.9**

2-8 km, <165E

Latitude Range, °N	CFC-12			CFC-11			H-1211			CH_3CCl_3			CCl_4			C_2Cl_4			CH_3Cl			CH_3Br		
	PWB	TrP	**Delta**	PWB	TrP	**Delta**	PWB	TrP	**Delta**	PWB	TrP	**Delta**	PWB	TrP	**Delta**	PWB	TrP	**Delta**	PWB	TrP	**Delta**	PWB	TrP	**Delta**
5-7.5	518	539	**21**	276	260	**-15**	2.8	4.2	**1.4**	126	39	**-87**	107.8	98.3	**-9.5**	6.1	2.4	**-3.7**	570	562	**-8**	8.8	7.8	**-1.0**
7.5-10	518	539	**21**	277	260	**-16**	2.8	4.2	**1.4**	124	39	**-85**	107.3	98.8	**-8.5**	6.5	2.5	**-4.0**	575	557	**-18**	9.5	8.0	**-1.5**
10-12.5	519	541	**22**	274	262	**-12**	2.8	4.2	**1.4**	123	40	**-83**	106.9	99.3	**-7.7**	5.1	2.6	**-2.5**	551	566	**15**	9.3	8.3	**-1.0**
12.5-15	517	539	**22**	274	261	**-13**	2.8	4.2	**1.4**	123	39	**-84**	107.2	99.0	**-8.2**	5.3	2.9	**-2.4**	554	561	**7**	8.7	8.2	**-0.5**
15-17.5	515	537	**21**	274	261	**-14**	2.9	4.2	**1.4**	126	39	**-86**	107.5	99.0	**-8.5**	5.8	3.4	**-2.5**	565	556	**-9**	9.0	8.3	**-0.7**
17.5-20	517	537	**20**	274	260	**-14**	2.9	4.2	**1.4**	124	39	**-85**	107.5	98.7	**-8.8**	5.4	3.1	**-2.4**	559	565	**6**	9.2	8.2	**-0.9**
20-22.5	519	537	**18**	274	260	**-14**	2.9	4.2	**1.3**	120	39	**-81**	106.9	99.1	**-7.8**	6.2	3.5	**-2.7**	574	580	**6**	9.5	8.5	**-1.0**
22.5-25	519	536	**16**	275	259	**-15**	2.9	4.2	**1.3**	122	39	**-83**	107.5	98.8	**-8.7**	8.0	3.5	**-4.6**	587	573	**-14**	10.5	8.5	**-2.0**
25-27.5	521	535	**14**	275	259	**-16**	3.0	4.2	**1.3**	128	39	**-89**	108.0	98.4	**-9.6**	13.7	3.3	**-10.4**	572	577	**5**	10.7	8.6	**-2.1**
27.5-30	523	536	**13**	275	260	**-16**	3.0	4.3	**1.3**	128	40	**-88**	108.5	99.1	**-9.4**	14.5	4.8	**-9.7**	573	577	**4**	11.6	8.8	**-2.8**
30-32.5	522	535	**13**	274	259	**-15**	3.1	4.4	**1.4**	126	40	**-86**	106.8	98.8	**-8.0**	16.3	6.4	**-9.9**	587	570	**-17**	12.2	8.9	**-3.3**
32.5-35	521	537	**16**	273	260	**-13**	3.0	4.3	**1.3**	125	40	**-85**	107.0	98.7	**-8.3**	15.2	7.2	**-8.0**	607	552	**-55**	12.1	8.9	**-3.2**
35-37.5	523	538	**15**	274	260	**-14**	3.0	4.3	**1.3**	127	41	**-87**	106.8	99.6	**-7.2**	17.4	9.4	**-7.9**	564	564	**-1**	11.9	9.4	**-2.5**
37.5-40	523	537	**14**	274	260	**-14**	3.0	4.3	**1.3**	125	40	**-85**	106.9	98.9	**-8.0**	15.3	8.4	**-6.9**	554	548	**-6**	11.4	8.8	**-2.5**
40-42.5	524	539	**14**	274	261	**-13**	3.1	4.3	**1.3**	129	41	**-87**	107.3	99.6	**-7.6**	20.3	10.4	**-9.9**	558	548	**-10**	11.8	9.3	**-2.5**
42.5-45	526	535	**9**	274	259	**-16**	3.2	4.3	**1.2**	128	41	**-87**	107.3	98.8	**-8.5**	21.2	11.2	**-9.9**	564	544	**-21**	11.8	9.5	**-2.3**
45-47.5	524	532	**8**	274	257	**-17**	3.1	4.2	**1.1**	127	40	**-86**	107.1	97.9	**-9.2**	16.2	10.2	**-6.1**	565	541	**-24**	11.6	9.5	**-2.1**
Average	521	537	**16**	274	260	**-15**	3.0	4.3	**1.3**	125	40	**-86**	107.3	98.9	**-8.5**	11.7	5.6	**-6.1**	569	561	**-8**	10.6	8.7	**-1.9**
Std Dev	3	2	**4**	1	1	**1**	0.1	0.1	**0.1**	2	1	**2**	0.5	0.4	**0.7**	5.8	3.2	**3.2**	14	12	**17**	1.3	0.5	**0.9**

Table 3. Selected trace gas ratios vs CO for Kita classifications: SE Asia, South China, North China, and Japan + Korea. "Calc. Emission" is estimated emission based on the measured trace gas/CO ratios from Figure 21, with CO scaled to the *Streets et al*. [2003] CO inventory for 2000 (CO for N and S China was increased by 30% in accord with the findings of *Palmer et al*. [2003a]). Inventory emissions are taken from *Streets et al*., [2003].

	Ethane			**Ethyne**			**Propane**			**Methyl Bromide**		**Methyl Chloride**		**Halon-1211**	
	Ratio vs CO (v/v) $x10^{-6}$	Calc. Emission (Gg)	Inventory Emission (Gg)	Ratio vs CO (v/v) $x10^{-6}$	Calc. Emission (Gg)	Inventory Emission (Gg)	Ratio vs CO (v/v) $x10^{-6}$	Calc. Emission (Gg)	Inventory Emission (Gg)	Ratio vs CO (v/v) $x10^{-6}$	Calc. Emission (Gg)	Ratio vs CO (v/v) $x10^{-6}$	Calc. Emission (Gg)	Ratio vs CO (v/v) $x10^{-6}$	Calc. Emission (Gg)
SE Asia	5.5	144	290	4.0	89	205	1.0	38	103	6.2	0.5	0.54	24	0.0011	0.2
S China	4.9	483	613	4.7	406	567	1.8	267	404	6.4	2.0	0.54	90	0.0042	2.3
N China	3.4	222	363	3.8	213	331	1.1	109	288	2.7	0.6	0.34	37	NC	
Japan + Korea	6.5	124	64	4.7	78	52	4.2	119	79	26.6	1.6	0.50	16	NC	

NC = not correlated