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Seasonal variability of surface and column carbon monoxide over the megacity Paris, high-altitude Jungfraujoch and Southern Hemispheric Wollongong stations

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Table 1 - CO total columns from the FTS-Paris instrument

Date (yyyymmdd)	Columns (cm ⁻²)
20090522	2.075E+18
20090701	2.060E+18
20090713	1.666E+18
20090715	1.587E+18
20090716	1.636E+18
20090720	1.707E+18
20090721	1.740E+18
20091014	1.729E+18
20100216	2.449E+18
20100302	2.563E+18
20100707	1.942E+18
20100708	1.873E+18
20100830	1.943E+18
20100831	1.933E+18
20100901	1.969E+18
20100902	1.811E+18
20100903	2.005E+18
20100922	2.125E+18
20101011	1.771E+18
20110308	2.509E+18
20110419	2.141E+18
20110420	2.339E+18
20110421	2.158E+18
20110422	2.194E+18
20110426	2.490E+18
20110504	2.859E+18
20110505	2.082E+18
20110506	2.333E+18
20110512	2.176E+18
20110513	2.384E+18
20110523	2.097E+18
20110525	2.000E+18
20110601	2.041E+18
20110603	2.037E+18
20110627	1.948E+18
20110630	1.983E+18
20110701	1.860E+18
20110704	1.925E+18
20110705	1.932E+18
20110715	1.917E+18
20110830	1.953E+18
20110915	1.702E+18
20111003	1.793E+18
20111020	1.830E+18
20111021	1.985E+18
20111022	1.824E+18
20111031	1.833E+18
20111104	1.827E+18
20111114	1.918E+18
20111115	1.942E+18
20120116	1.956E+18
20120117	2.250E+18
20120201	2.611E+18
20120202	2.280E+18
20120203	2.521E+18
20120209	2.840E+18
20120210	2.495E+18
20120220	2.649E+18
20120221	2.336E+18
20120308	2.468E+18
20120309	2.390E+18
20120312	2.148E+18
20120313	2.183E+18
20120314	2.366E+18
20120315	2.220E+18
20120316	2.362E+18
20120320	2.668E+18

20120321	2.527E+18
20120322	2.372E+18
20120323	2.376E+18
20120324	2.486E+18
20120326	2.303E+18
20120327	2.371E+18
20120328	2.321E+18
20120329	2.360E+18
20120330	2.391E+18
20120402	2.263E+18
20120403	2.660E+18
20120413	2.672E+18
20120430	2.195E+18
20120514	2.302E+18
20120523	1.758E+18
20120524	1.820E+18
20120525	2.079E+18
20120526	2.124E+18
20120529	2.007E+18
20120530	2.167E+18
20120620	2.065E+18
20120723	1.927E+18
20120810	2.124E+18
20120811	1.967E+18
20120817	1.735E+18
20120818	1.935E+18
20120823	2.064E+18
20120827	1.765E+18
20120830	2.144E+18
20120901	2.131E+18
20120904	2.149E+18
20120906	2.131E+18
20120907	2.152E+18
20120908	1.881E+18
20121022	1.850E+18
20121023	1.857E+18
20121025	1.825E+18
20121031	1.939E+18
20121106	2.132E+18
20130218	2.369E+18
20130219	2.448E+18
20130304	2.356E+18
20130402	2.515E+18
20130422	2.578E+18
20130425	2.310E+18
20130719	2.095E+18
20130720	1.987E+18
20130722	2.187E+18
20130816	1.742E+18
20130820	2.132E+18
20130821	1.824E+18
20130823	1.791E+18
20130830	1.921E+18
20130903	1.879E+18
20130904	1.770E+18
20130905	1.784E+18
20130924	1.621E+18
20131021	1.623E+18
20131022	1.573E+18
20131023	1.678E+18
20131029	1.727E+18
20131030	1.998E+18
20131031	1.786E+18
20131113	1.977E+18
20131210	1.946E+18
20131211	1.987E+18
20131212	2.084E+18
20131216	1.907E+18
20131220	2.072E+18

Table 2 - Monthly averaged CO free tropospheric partial columns at Paris.
Data cover the 2009-2013 period.

Month	FTS-Paris (cm-2)	IASI (cm-2)
1	--	1.280E+18
2	1.262E+18	1.347E+18
3	1.316E+18	1.482E+18
4	1.321E+18	1.488E+18
5	1.182E+18	1.357E+18
6	1.182E+18	1.274E+18
7	1.136E+18	1.223E+18
8	1.119E+18	1.211E+18
9	1.066E+18	1.186E+18
10	9.568E+17	1.093E+18
11	1.063E+18	1.125E+18
12	--	1.180E+18

Table 3 - Monthly averaged surface CO from the FTS-Paris instrument and from the
in situ analyser (CO11M).

Data cover the 2009-2013 period.

Month	FTS-Paris (ppmv)	CO11M (ppmv)
1	--	0.321
2	0.269	0.324
3	0.257	0.281
4	0.246	0.250
5	0.203	0.225
6	0.189	0.197
7	0.170	0.164
8	0.181	0.160
9	0.182	0.223
10	0.188	0.254
11	0.211	0.282
12	--	0.285