Supplement of

Trends and trend reversal detection in two decades of tropospheric NO$_2$ satellite observations

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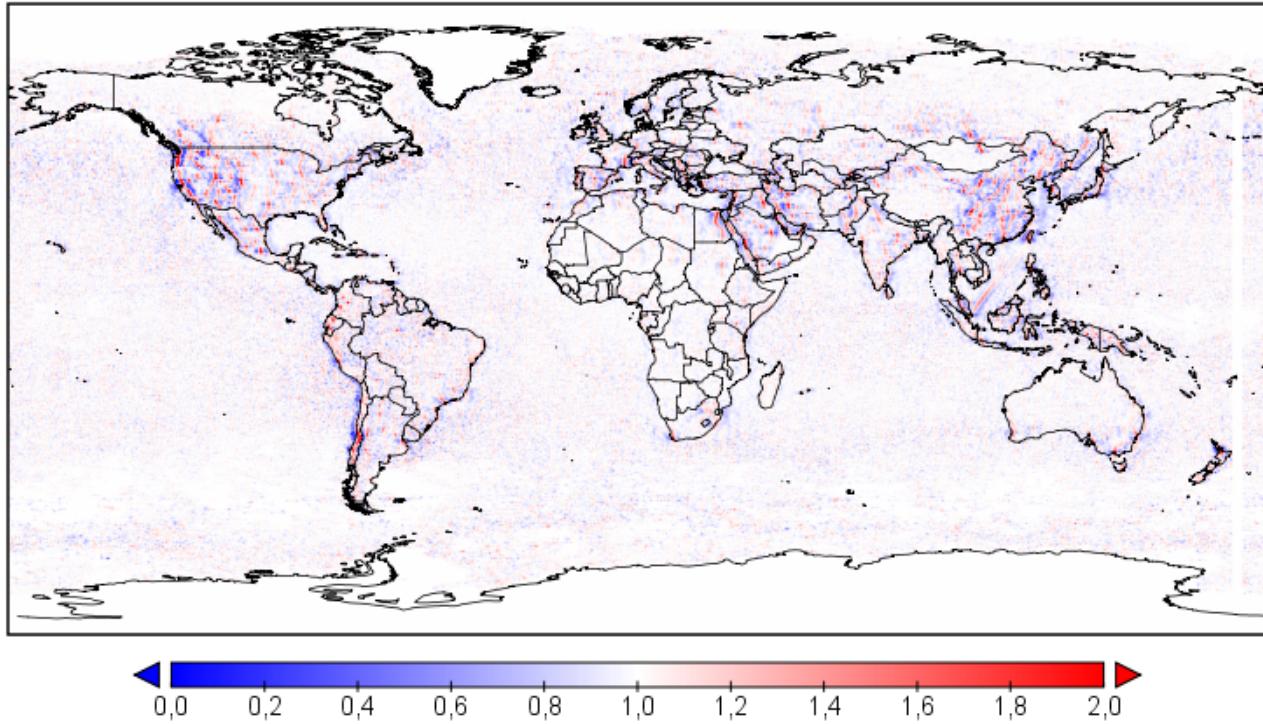
Figure S1: Map with the annual mean spatial resolution correction factors (CF1). A value of 1 was used in cases where the mean tropospheric NO_2 VCD was lower than SCIAMACHY's precision (0.1×10^{15} molecules cm^{-2}).
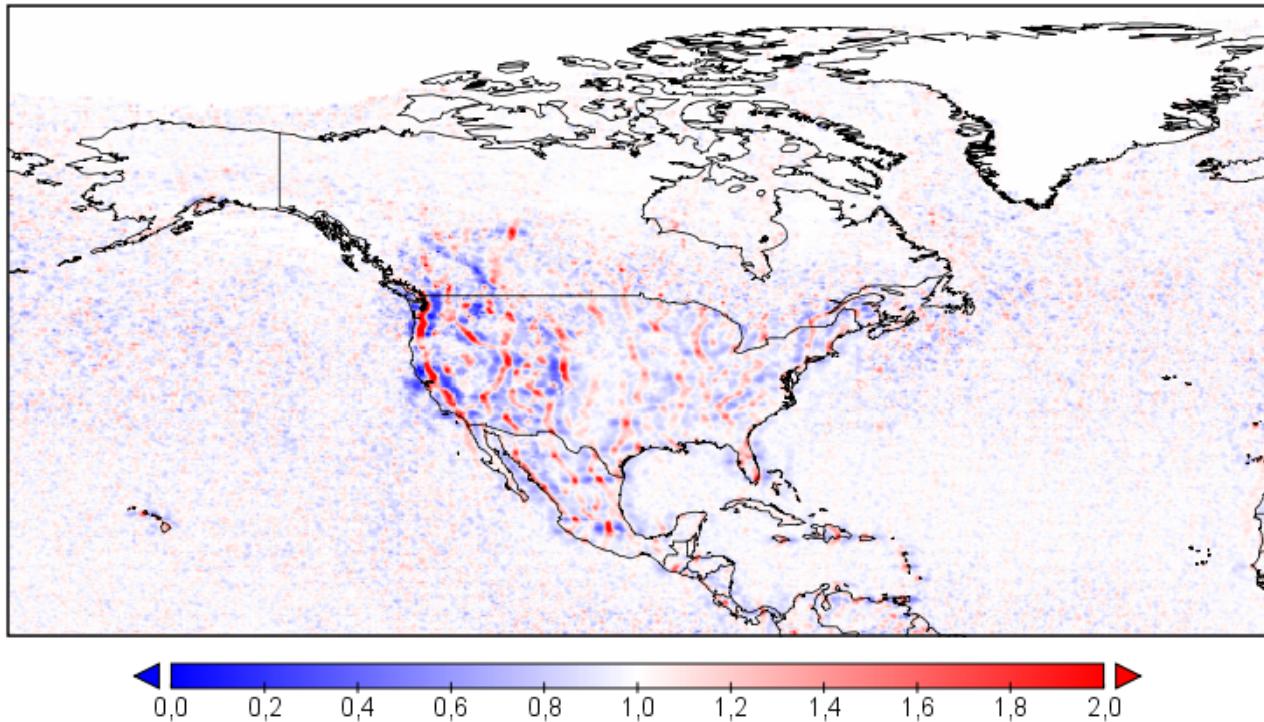
Figure S2: The same as Fig. S1 but for North America.

Spatial resolution correction factor (CF1)
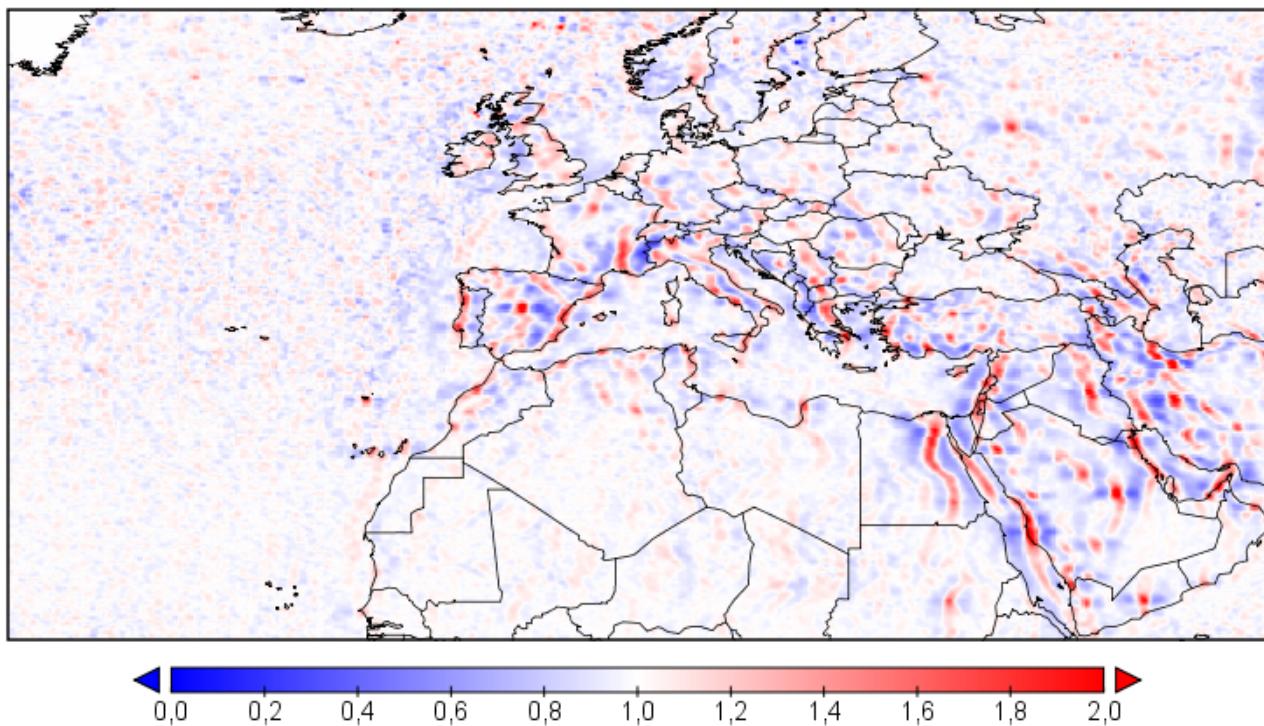
Figure S3: The same as Fig. S1 but for Europe.

Spatial resolution correction factor (CF1)
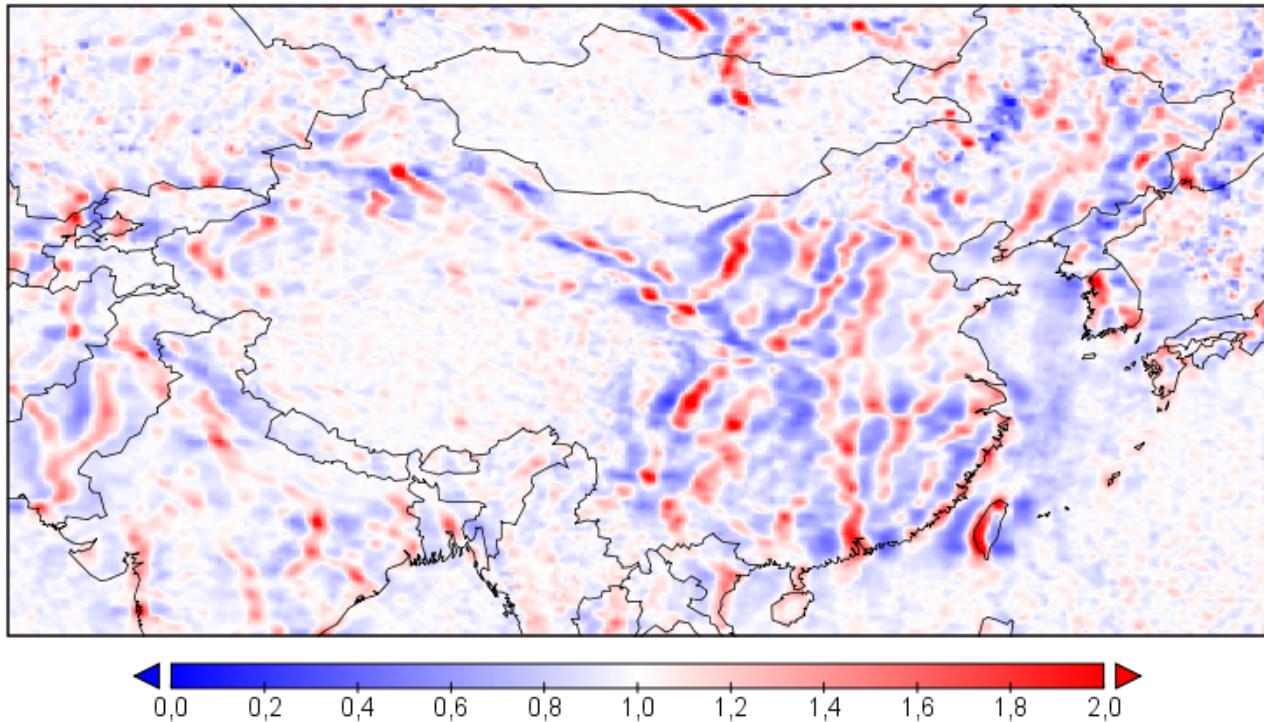
Figure S4: The same as Fig. S1 but for China.
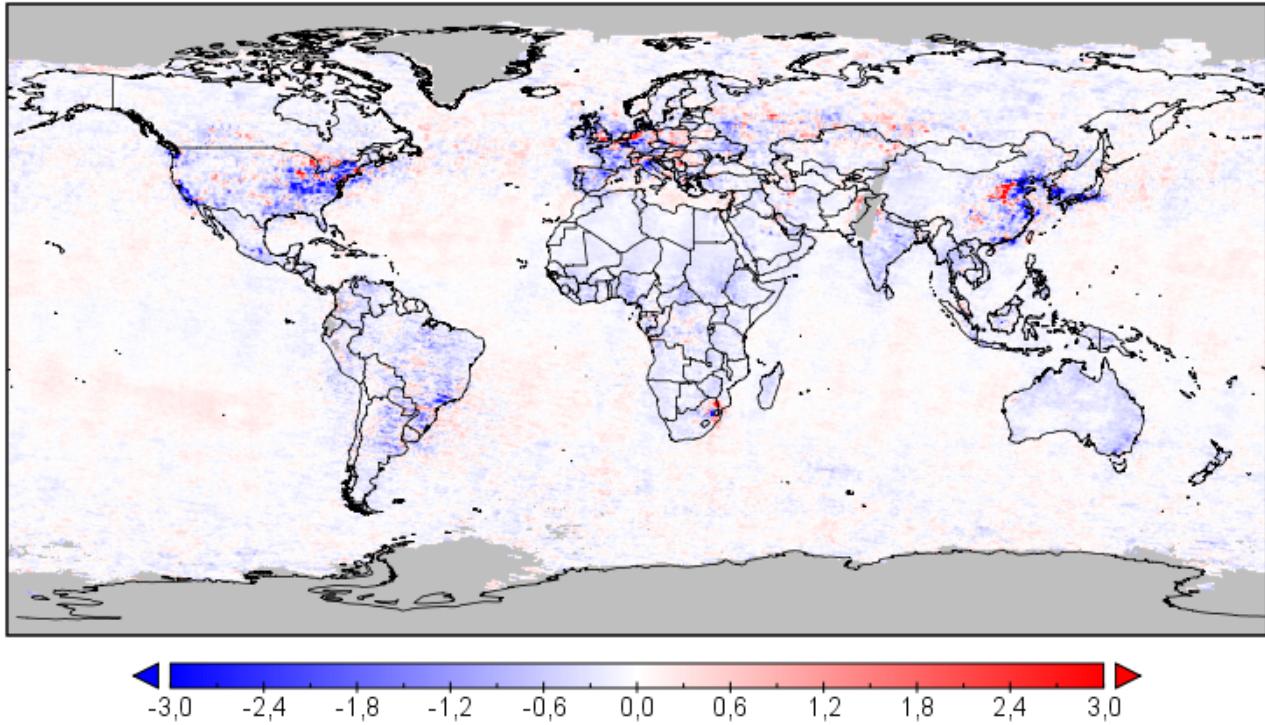
Figure S5: Map with the shift correction factors (CF2). Grey color is used for regions were the application of the shift correction was not possible due to lack of measurements during the common GOME-SCIAMACHY period.

Shift correction factor (CF2)
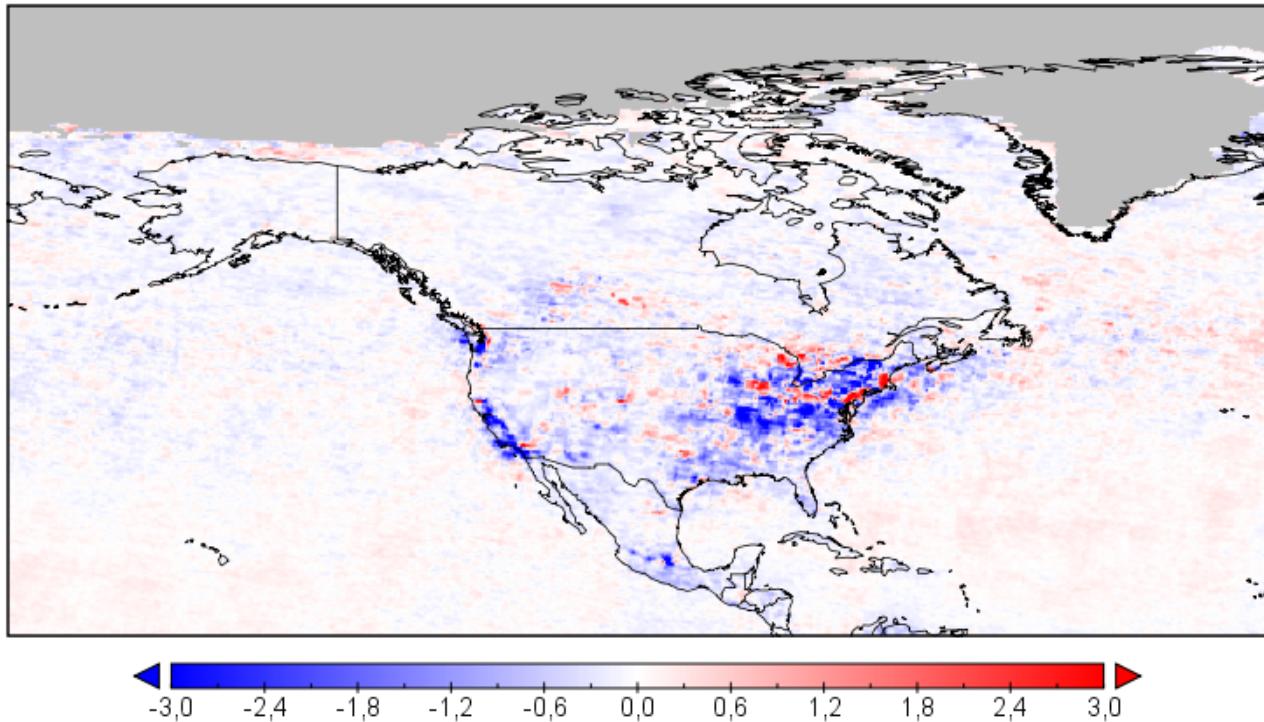
Figure S6: The same as Fig. S5 but for North America.
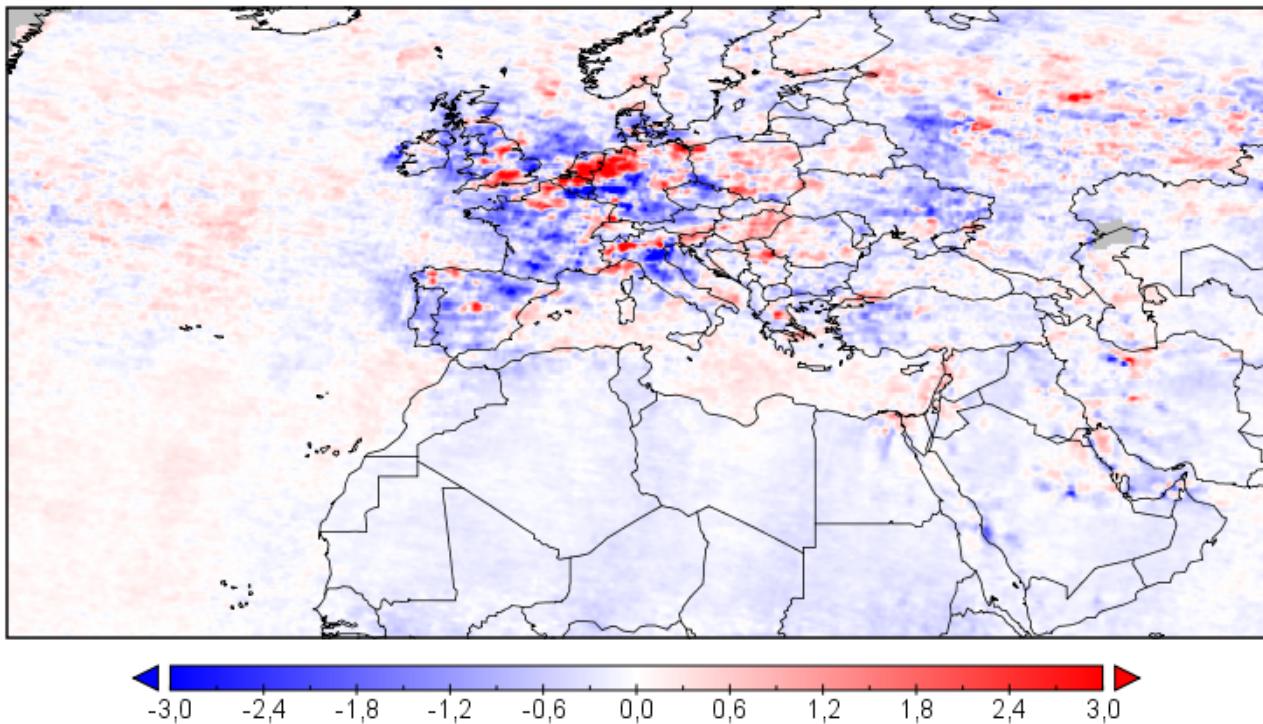
Figure S7: The same as Fig. S5 but for Europe.
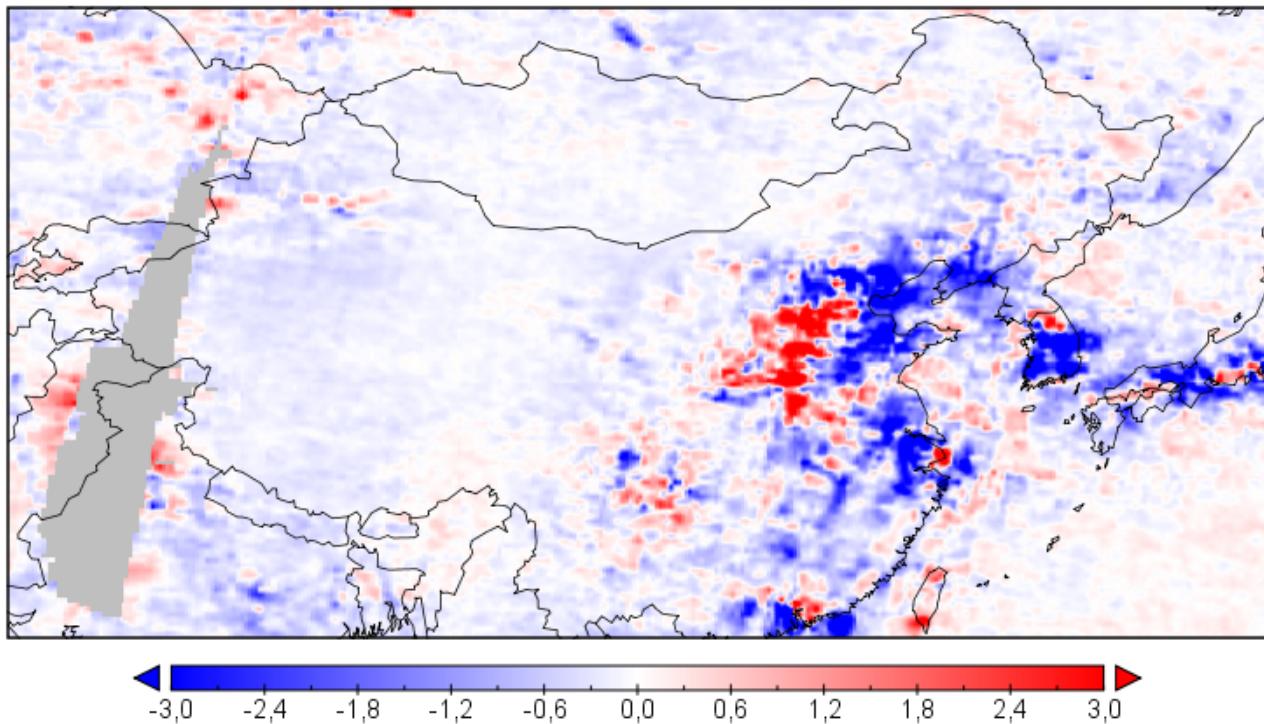
Figure S8: The same as Fig. S5 but for China.

Figure S9: Map with the annual mean seasonal amplitude correction factors (CF3).
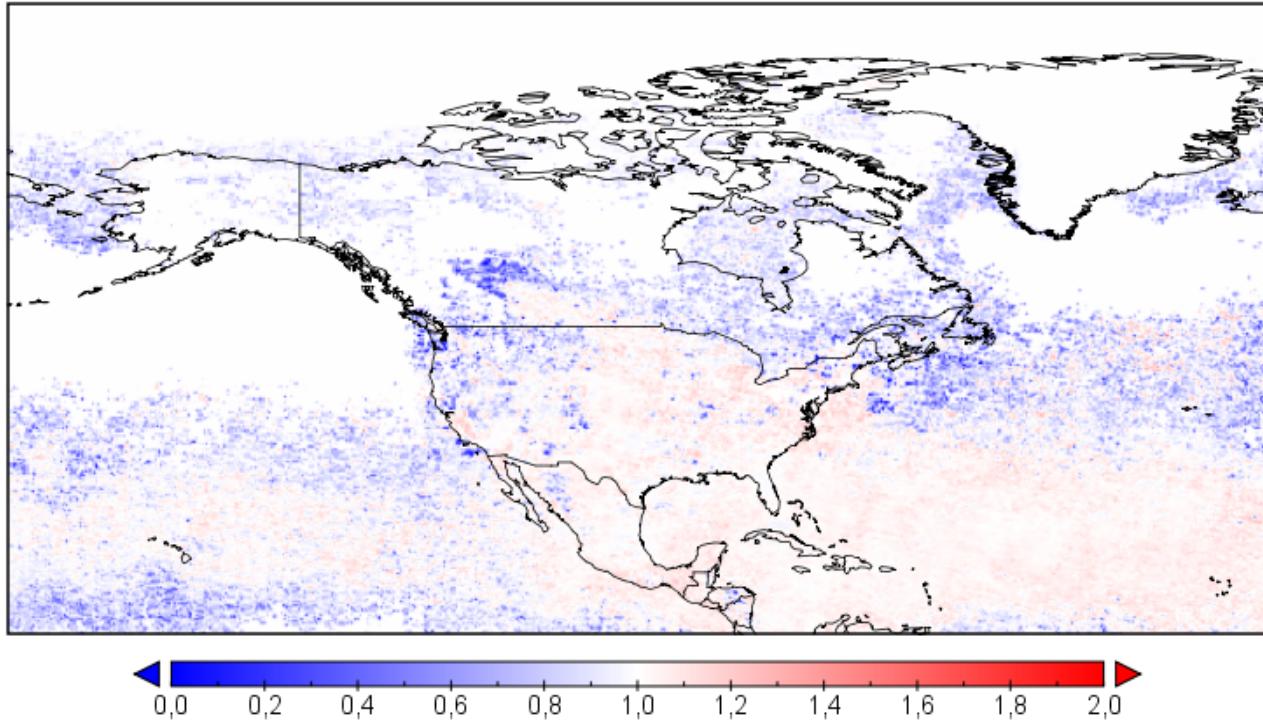
Figure S10: The same as Fig. S9 but for North America.
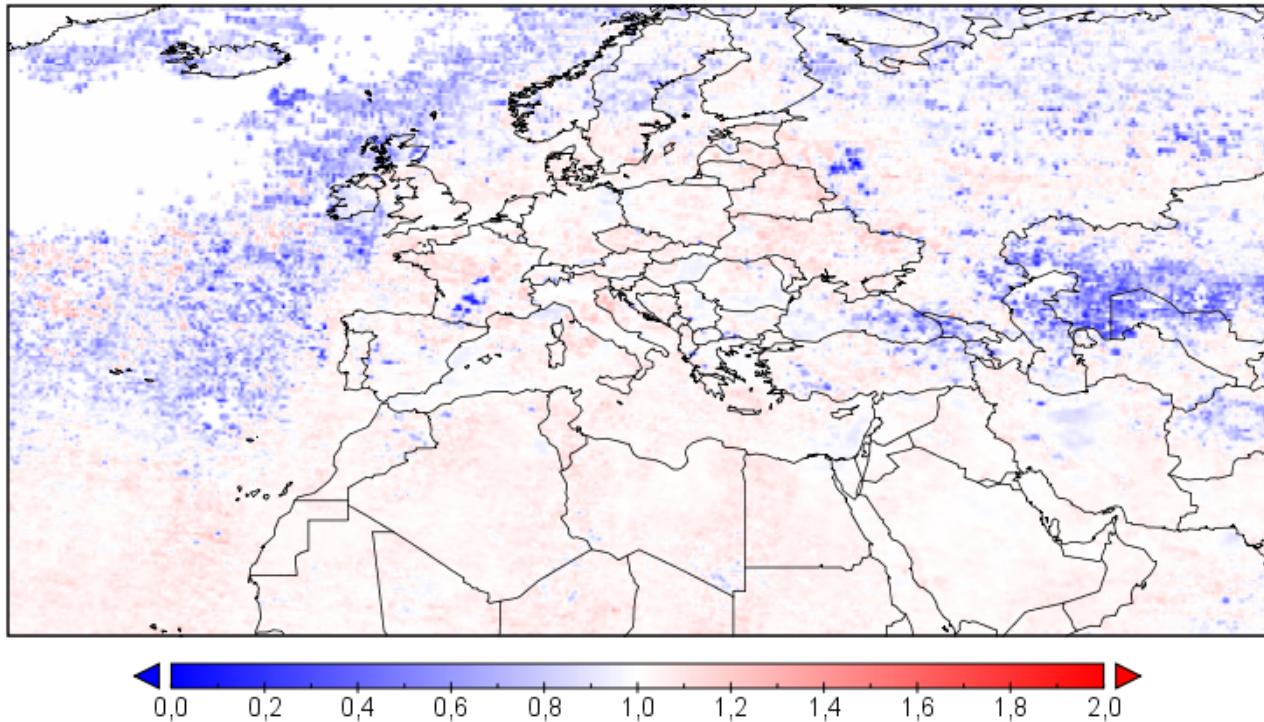
Figure S11: The same as Fig. S9 but for Europe.
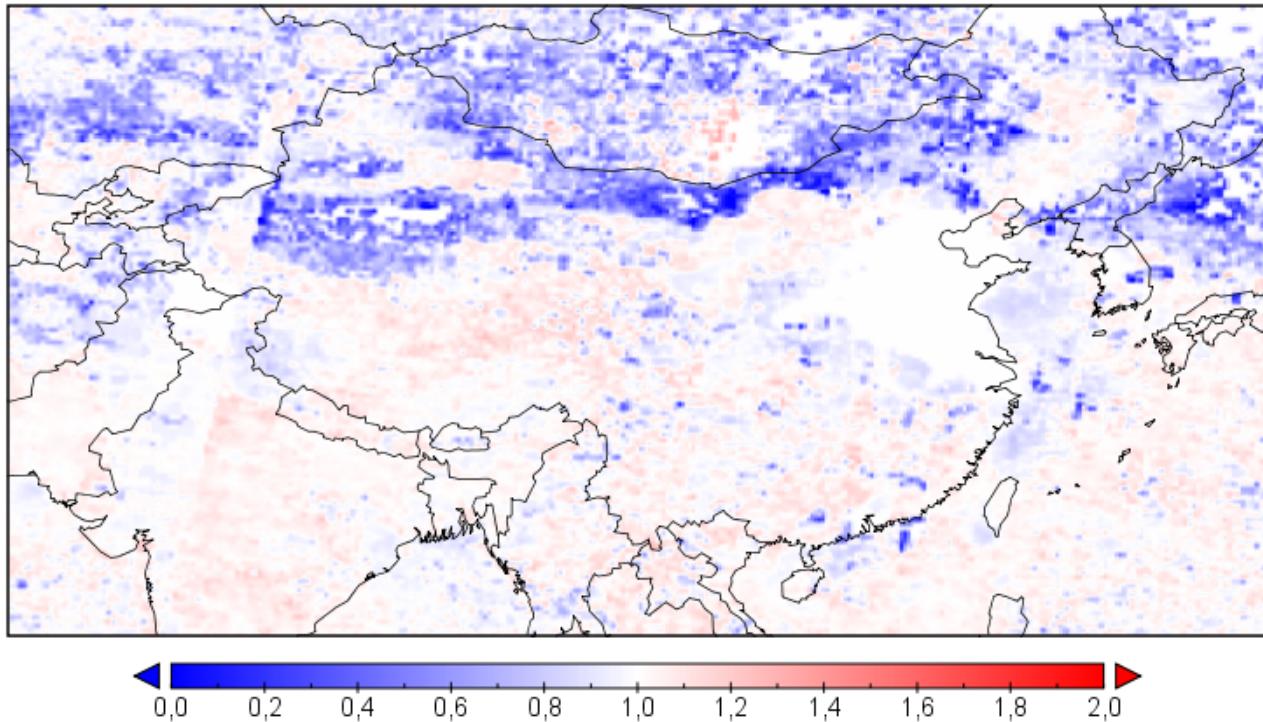
Figure S12: The same as Fig. S9 but for China.

Table S1: Absolute trends (in 10^{15} molecules cm^{-2} yr^{-1}) and trends relative to the fitted mean of the first year (in % yr^{-1}) with the corresponding uncertainties ($\pm1\sigma$) for the period 4/1996-9/2017 for all the world countries. The year when a trend reversal was detected and the absolute and relative trend for the sub-period before and the sub-period after the detected trend reversal are also given. The year of reversal is included in both sub-periods while the relative trends are calculated relative to the fitted mean of each sub-period's first year. Bold characters are used to indicate the year of reversal and the statistically significant trends at the 95% confidence level.

Country	Whole period			Before the reversal		After the reversal	
	Abs. trend	Rel. trend	Reversal	Abs. trend	Rel. trend	Abs. trend	Rel. trend
Afghanistan	0.0029±0.0018	0.6114±0.3768	**2011**	**0.0102±0.0024**	**2.3918±0.5525**	**-0.0338±0.0089**	**-5.3566±1.4061**
Albania	**0.0209±0.0055**	**2.7604±0.7302**	**2012**	**0.0448±0.0073**	**7.3462±1.2018**	**-0.0672±0.0267**	**-5.4265±2.1563**
Algeria	0.0017±0.0015	0.3706±0.3100	**2012**	**0.0045±0.0022**	**1.0024±0.4884**	**-0.0233±0.0066**	**-4.0611±1.1504**
American Samoa	**-0.0152±0.0016**	**-4.7622±0.4991**	-	-	-	-	-
Andorra	0.0038±0.0051	0.6671±0.8951	-	-	-	-	-
Angola	**-0.0049±0.0019**	**-0.4141±0.1591**	**2002**	**-0.0290±0.0127**	**-2.2477±0.9822**	0.0020±0.0023	0.1877±0.2147
Anguilla	**-0.0091±0.0019**	**-1.8623±0.3972**	-	-	-	-	-
Antigua and Barbuda	**-0.0108±0.0018**	**-1.7836±0.3033**	-	-	-	-	-
Argentina	**0.0104±0.0032**	**1.7992±0.5478**	**2000**	**-0.0775±0.0159**	**-8.7719±1.8040**	**0.0234±0.0027**	**5.0152±0.5857**
Armenia	**0.0250±0.0035**	**4.3776±0.6215**	**2002**	**-0.0290±0.0117**	**-3.8537±1.5580**	**0.0304±0.0061**	**4.5818±0.9141**
Aruba	**-0.0099±0.0035**	**-1.0939±0.3844**	-	-	-	-	-
Australia	-0.0018±0.0021	-0.2923±0.3375	**2012**	0.0036±0.0027	0.6205±0.4608	**-0.0477±0.0148**	**-6.7697±2.1079**
Austria	-0.0149±0.0091	-0.5384±0.3285	-	-	-	-	-
Azerbaijan	**0.0185±0.0032**	**1.7365±0.2989**	-	-	-	-	-
Bahamas	-0.0029±0.0024	-0.3481±0.2930	-	-	-	-	-
Bahrain	**0.1048±0.0160**	**1.6557±0.2534**	-	-	-	-	-
Bangladesh	**0.0484±0.0043**	**3.0877±0.2710**	-	-	-	-	-
Barbados	**-0.0044±0.0019**	**-0.8481±0.3751**	-	-	-	-	-
Belarus	-0.0017±0.0060	-0.0957±0.3411	-	-	-	-	-
Belgium	**-0.2494±0.0260**	**-1.9862±0.2070**	-	-	-	-	-
Belize	-0.0038±0.0029	-0.5684±0.4333	-	-	-	-	-
Benin	-0.0003±0.0040	-0.0272±0.3184	-	-	-	-	-
Bermuda	**-0.0228±0.0034**	**-2.4517±0.3647**	**2002**	0.0066±0.0213	0.7575±2.4317	**-0.0200±0.0052**	**-2.5897±0.6755**
Bhutan	**-0.0120±0.0022**	**-1.3679±0.2494**	-	-	-	-	-
Bolivia	0.0009±0.0039	0.1330±0.5810	-	-	-	-	-
Bosnia-Herzegovina	0.0042±0.0059	0.2819±0.3969	-	-	-	-	-
Botswana	**-0.0142±0.0037**	**-0.9717±0.2534**	-	-	-	-	-
Brazil	**0.0094±0.0024**	**1.4344±0.3684**	**2000**	-0.0164±0.0219	-2.1790±2.9159	**0.0147±0.0031**	**2.3642±0.4951**
British Virgin Islands	**-0.0149±0.002**	**-2.3040±0.3108**	-	-	-	-	-
Brunei Darussalam	0.0046±0.0050	0.7567±0.8115	-	-	-	-	-
Bulgaria	**0.0220±0.0058**	**1.3198±0.3489**	**2007**	**0.0576±0.0142**	**3.8716±0.9559**	**-0.0211±0.0139**	**-0.9824±0.6472**
Burkina Faso	-0.0032±0.0028	-0.3087±0.2729	-	-	-	-	-
Burundi	0.0012±0.0040	0.1153±0.3651	**2003**	0.0270±0.0237	2.7809±2.4419	**-0.012±0.0050**	**-1.0016±0.4169**
Cambodia	**0.0203±0.0042**	**2.6936±0.5543**	**2001**	-0.0483±0.0242	-5.2500±2.6257	**0.0255±0.0060**	**3.1563±0.7381**
Cameroon	-0.0039±0.0033	-0.2747±0.2341	**2009**	0.0078±0.0063	0.5757±0.4651	**-0.0272±0.0107**	**-1.8324±0.7201**
Canada	**-0.0054±0.0015**	**-1.2625±0.3547**	**2005**	**0.0120±0.0036**	**3.4985±1.0472**	**-0.0175±0.0029**	**-3.69±0.6161**
Cape Verde	**-0.0046±0.0021**	**-1.1166±0.4999**	**2012**	0.0037±0.0028	1.0087±0.7792	**-0.0456±0.0079**	**-10.6582±1.8546**
Cayman Islands	**-0.0091±0.0022**	**-1.2414±0.3039**	-	-	-	-	-
Central African Republic	-0.0005±0.0046	-0.0343±0.3148	**2009**	**0.0207±0.0081**	**1.5706±0.6150**	**-0.0447±0.0118**	**-2.7184±0.7187**
Chad	**-0.0062±0.0022**	**-0.7262±0.2563**	-	-	-	-	-
Chile	**0.0093±0.0024**	**2.4781±0.6342**	**2000**	-0.0469±0.0246	-8.3516±4.3721	**0.0178±0.0022**	**5.6681±0.6909**
China	**0.1191±0.0196**	**7.5499±1.2398**	**2011**	**0.1939±0.0196**	**17.6742±1.7839**	**-0.2872±0.0480**	**-6.2108±1.0379**

Country			Year				
Colombia	**0.0073±0.0024**	**1.1163±0.3690**	-	-	-	-	-
Commonwealth of Dominica	**-0.0121±0.0016**	**-2.5697±0.3474**	-	-	-	-	-
Comoros	-0.0010±0.0015	-0.3054±0.4627	-	-	-	-	-
Congo	**0.0080±0.0027**	**0.6284±0.2151**	-	-	-	-	-
Congo Democratic Republic	**-0.0056±0.0024**	**-0.3605±0.1565**	2009	0.0019±0.0043	0.1245±0.2862	**-0.0263±0.0089**	**-1.6575±0.5613**
Cook Islands	**-0.0089±0.0011**	**-3.3181±0.3921**	-	-	-	-	-
Costa Rica	-0.0020±0.0026	-0.3007±0.3880	2002	**-0.0494±0.0209**	**-5.9015±2.4891**	**0.0061±0.0025**	**1.0466±0.4383**
Croatia	**-0.0494±0.0080**	**-1.6316±0.2634**	-	-	-	-	-
Cuba	-0.0027±0.0023	-0.3068±0.2671	-	-	-	-	-
Cyprus	0.0052±0.0050	0.3552±0.3362	2012	**0.0137±0.0071**	**0.9659±0.5015**	**-0.0947±0.0222**	**-5.1421±1.2077**
Czech Republic	**-0.0377±0.0171**	**-0.8947±0.4055**	2010	0.0109±0.0340	0.2764±0.8620	**-0.1432±0.0434**	**-3.5321±1.0702**
Denmark	**-0.0449±0.0108**	**-1.2981±0.3135**	-	-	-	-	-
Djibouti	-0.0032±0.0017	-0.4467±0.2427	2002	**-0.0510±0.0094**	**-5.8558±1.0823**	0.0035±0.0021	0.5575±0.3414
Dominican Republic	-0.0029±0.0032	-0.2586±0.2889	-	-	-	-	-
East Timor	-0.0037±0.0032	-0.9943±0.8493	2006	0.0151±0.0093	5.4103±3.3292	**-0.0252±0.0062**	**-5.2562±1.2851**
Ecuador	**0.0294±0.0024**	**7.4325±0.6026**	2001	-0.0246±0.0185	-4.6569±3.5030	**0.0327±0.0037**	**6.5174±0.7347**
Egypt	0.0017±0.0025	0.1842±0.2703	2003	**-0.0284±0.0125**	**-2.7923±1.2302**	0.006±0.0034	0.6797±0.3837
El Salvador	**0.0200±0.0049**	**1.7220±0.4242**	2012	**0.0251±0.0067**	**2.2340±0.5990**	-0.0494±0.0329	-2.952±1.9641
Equatorial Guinea	**0.0088±0.0044**	**0.9342±0.4636**	2010	**0.0252±0.0086**	**2.9906±1.0231**	-0.0202±0.0110	-1.7862±0.9737
Eritrea	**-0.0073±0.0025**	**-1.0382±0.3608**	-	-	-	-	-
Estonia	-0.0048±0.0054	-0.3919±0.4353	-	-	-	-	-
Ethiopia	**-0.0047±0.002**	**-0.5892±0.2548**	-	-	-	-	-
Falkland Islands	-0.0033±0.0019	-69.3594±39.6276	-	-	-	-	-
Federated State of Micronesia	-0.0001±0.0023	-0.2939±4.9102	2011	**0.0109±0.0029**	**45.4599±12.3399**	**-0.0407±0.0104**	**-26.455±6.7765**
Fiji	0.0001±0.0013	0.0509±0.8109	-	-	-	-	-
France	**-0.0555±0.0107**	**-1.4957±0.2879**	-	-	-	-	-
French Guiana	**-0.0033±0.0016**	**-1.8853±0.8973**	2012	0.0032±0.0020	2.3543±1.4845	**-0.0409±0.0106**	**-19.466±5.0652**
French Polynesia	**-0.0083±0.0010**	**-3.5699±0.4529**	-	-	-	-	-
FYROM	**0.0506±0.0087**	**4.7737±0.8199**	2011	**0.0921±0.0127**	**11.2700±1.5584**	-0.0382±0.0284	-1.9504±1.4509
Gabon	**0.0076±0.0025**	**0.7616±0.2480**	2010	**0.0168±0.0047**	**1.7778±0.4998**	**-0.0132±0.0066**	**-1.1266±0.5611**
Gambia	-0.0056±0.0030	-0.5191±0.2751	-	-	-	-	-
Georgia	**0.0185±0.0030**	**3.3733±0.5425**	2002	-0.0303±0.0167	-4.3192±2.3737	**0.0231±0.0047**	**3.7750±0.7683**
Germany	**-0.1115±0.0145**	**-1.5775±0.2050**	-	-	-	-	-
Ghana	**-0.0130±0.0036**	**-0.9709±0.2703**	-	-	-	-	-
Greece	**-0.0115±0.0050**	**-0.5762±0.2488**	2012	0.0096±0.0065	0.5160±0.3497	**-0.0804±0.02**	**-4.2204±1.0521**
Grenada	**-0.0136±0.0027**	**-2.1570±0.4320**	-	-	-	-	-
Guadeloupe	**-0.0167±0.0016**	**-2.5393±0.2428**	-	-	-	-	-
Guam	-0.0026±0.0027	-0.6095±0.6203	-	-	-	-	-
Guatemala	**-0.0084±0.0030**	**-0.7180±0.2533**	2006	**-0.0305±0.0091**	**-2.4037±0.7162**	0.0059±0.0049	0.5876±0.4919
Guernsey	**-0.0640±0.0212**	**-1.9431±0.6456**	-	-	-	-	-
Guinea	**-0.0061±0.0030**	**-0.5327±0.2586**	-	-	-	-	-
Guinea-Bissau	**-0.0086±0.0031**	**-0.7848±0.2784**	-	-	-	-	-
Guyana	-0.0017±0.0016	-0.7935±0.7515	2011	**0.0054±0.0023**	**3.1970±1.3736**	**-0.0273±0.0068**	**-10.6217±2.6354**
Haiti	-0.0016±0.0025	-0.1687±0.2621	2005	**-0.0278±0.0079**	**-2.5883±0.7390**	**0.0103±0.0044**	**1.200±0.5168**
Honduras	**0.0096±0.0027**	**1.3414±0.3820**	2011	**0.0132±0.0049**	**1.9054±0.7064**	**-0.0238±0.0103**	**-2.4065±1.0362**
Hong Kong	-0.1302±0.0772	-0.7319±0.4341	2004	**0.9438±0.3372**	**7.1514±2.5554**	**-0.5415±0.1310**	**-2.7016±0.6538**
Hungary	**-0.0554±0.0088**	**-1.2961±0.2056**	-	-	-	-	-
India	**0.0238±0.0024**	**1.5622±0.1581**	-	-	-	-	-
Indonesia	0.0039±0.0032	0.7211±0.5851	-	-	-	-	-
Iran	**0.0320±0.0028**	**3.2601±0.2806**	2012	**0.0396±0.0039**	**4.2237±0.4127**	-0.0193±0.0104	-1.2015±0.6469
Iraq	**0.0638±0.0054**	**6.7853±0.5747**	2012	**0.0673±0.0077**	**7.3758±0.8428**	**-0.0509±0.0151**	**-2.1909±0.6517**

Country							
Ireland	-0.0173±0.0117	-1.1594±0.7837	**2008**	0.0331±0.0304	2.6778±2.4644	**-0.0604±0.0275**	**-4.1221±1.8770**
Isle of Man	**-0.0648±0.0193**	**-2.3836±0.7102**	-	-	-	-	-
Israel	-0.0126±0.0066	-0.3293±0.1732	-	-	-	-	-
Italy	**-0.0836±0.0103**	**-1.6759±0.2071**	-	-	-	-	-
Ivory Coast	**-0.0080±0.0032**	**-0.7659±0.3082**	-	-	-	-	-
Jamaica	-0.0050±0.0029	-0.4498±0.2637	-	-	-	-	-
Japan	**-0.0710±0.0067**	**-1.7426±0.1647**	-	-	-	-	-
Jersey	-0.0349±0.0191	-1.2325±0.6748	-	-	-	-	-
Jordan	-0.0023±0.0030	-0.1431±0.1897	**2012**	0.0023±0.0041	0.1461±0.2623	**-0.0786±0.0171**	**-4.4119±0.9570**
Kazakhstan	**0.0146±0.0017**	**2.8402±0.3358**	**2011**	**0.0214±0.0023**	**4.5142±0.4865**	-0.0163±0.0088	-1.9778±1.0691
Kenya	0.0002±0.0030	0.0458±0.6632	**2009**	**0.0132±0.0039**	**3.6187±1.0779**	**-0.0354±0.0101**	**-5.872±1.6733**
Kiribati	**-0.0047±0.0017**	**-4.8275±1.7292**	**2011**	**0.0030±0.0015**	**6.3332±3.1309**	**-0.0387±0.0085**	**-30.8337±6.7273**
Korea	**0.1005±0.0225**	**1.3558±0.3042**	-	-	-	-	-
Korea Dem. Peoples Rep. of	**0.0817±0.0146**	**10.7852±1.9232**	**2012**	**0.1409±0.0192**	**38.0448±5.1952**	**-0.2655±0.0958**	**-9.319±3.3648**
Kuwait	**0.1001±0.0071**	**3.7793±0.2697**	**2012**	**0.1027±0.011**	**3.9036±0.4171**	-0.0438±0.0420	-0.9225±0.8847
Kyrgyz Republic	**0.0054±0.0022**	**0.8492±0.3449**	-	-	-	-	-
Lao Peoples Democratic Republic	**0.0117±0.0037**	**1.4097±0.4467**	**2002**	**-0.0536±0.0177**	**-5.2885±1.7500**	**0.0156±0.0056**	**1.7881±0.6434**
Latvia	0.0028±0.0049	0.2564±0.4522	-	-	-	-	-
Lebanon	**0.1664±0.0159**	**5.0536±0.4835**	-	-	-	-	-
Lesotho	-0.008±0.0064	-0.5481±0.4428	**2005**	**-0.0478±0.0220**	**-2.9513±1.3542**	0.0074±0.0137	0.5805±1.0714
Liberia	**-0.0116±0.0032**	**-1.2165±0.3359**	-	-	-	-	-
Libyan Arab Jamahiriya	**-0.0055±0.0016**	**-1.1710±0.3496**	-	-	-	-	-
Lithuania	**0.0188±0.0073**	**1.5486±0.5984**	-	-	-	-	-
Luxembourg	0.0034±0.0392	0.0634±0.7325	-	-	-	-	-
Madagascar	0.0000±0.0016	-0.0070±0.2623	**2002**	**-0.0385±0.0096**	**-5.1708±1.2862**	**0.0055±0.0019**	**0.9849±0.3454**
Malawi	-0.0014±0.0022	-0.1548±0.2420	**2011**	0.0042±0.0035	0.4749±0.3992	**-0.0212±0.0071**	**-2.2921±0.7663**
Malaysia	**0.0088±0.0031**	**0.9991±0.3482**	-	-	-	-	-
Maldives	-0.0043±0.0025	-1.9645±1.1350	**2011**	**0.0116±0.0024**	**9.7829±2.0585**	**-0.0554±0.0079**	**-19.3643±2.7647**
Mali	**-0.0038±0.0018**	**-0.5706±0.2695**	-	-	-	-	-
Malta	**0.0177±0.0052**	**1.5767±0.4593**	**2006**	**0.0483±0.0142**	**5.1252±1.5113**	**-0.0349±0.0107**	**-2.1134±0.6484**
Marshall Islands	**-0.0035±0.0016**	**-3.0714±1.3829**	**2011**	0.0034±0.0018	4.9668±2.6177	**-0.0335±0.0062**	**-22.2594±4.0904**
Martinique	**-0.0190±0.0023**	**-2.4121±0.2888**	-	-	-	-	-
Mauritania	-0.0031±0.0016	-0.6654±0.3591	-	-	-	-	-
Mauritius	**-0.0114±0.0022**	**-1.3819±0.2653**	-	-	-	-	-
Mayotte	0.0011±0.0022	0.2960±0.5994	-	-	-	-	-
Mexico	0.0029±0.0022	0.2644±0.1982	**2012**	**0.0094±0.0029**	**0.8960±0.2735**	**-0.0463±0.0126**	**-3.6619±0.9999**
Mongolia	0.0001±0.0010	0.0302±0.5091	**2000**	**-0.0251±0.0093**	**-9.2670±3.4436**	0.0019±0.0012	1.1074±0.6748
Morocco (includes Western Sahara)	**0.0046±0.0018**	**0.9063±0.3534**	**2012**	**0.0076±0.0027**	**1.5619±0.5433**	**-0.036±0.0072**	**-5.0847±1.0175**
Mozambique	**-0.0089±0.0022**	**-0.8153±0.2054**	-	-	-	-	-
Myanmar	-0.0026±0.0026	-0.3232±0.3206	-	-	-	-	-
Namibia	**-0.0096±0.0030**	**-1.0167±0.3168**	**2002**	**-0.0642±0.0196**	**-5.5977±1.7121**	0.0004±0.0031	0.0461±0.3877
Nepal	0.0007±0.0025	0.0722±0.2672	-	-	-	-	-
Netherland Antilles	0.0021±0.0025	0.3510±0.4331	**2001**	**-0.0605±0.0147**	**-8.2963±2.0119**	0.0015±0.0035	0.2542±0.5855
Netherlands	**-0.2963±0.0235**	**-2.3311±0.1849**	-	-	-	-	-
New Caledonia	**-0.0045±0.0015**	**-1.3034±0.4415**	-	-	-	-	-
New Zealand	-0.0020±0.0015	-0.8321±0.6331	**2002**	**-0.0275±0.0075**	**-8.7459±2.3723**	0.0017±0.0024	0.9180±1.2578
Nicaragua	0.0005±0.0030	0.0923±0.5200	-	-	-	-	-
Niger	-0.0019±0.0017	-0.3483±0.3195	**2011**	0.0018±0.0025	0.3571±0.4931	**-0.0255±0.0085**	**-4.3612±1.4539**
Nigeria	-0.0024±0.0033	-0.1596±0.2165	-	-	-	-	-
Northern Mariana Islands	0.0040±0.0021	3.2417±1.7180	**2001**	**-0.0382±0.0101**	**-18.7322±4.9383**	0.0038±0.0032	2.5953±2.1825
Norway	-0.0035±0.0027	-0.6086±0.4752	-	-	-	-	-

Country							
Occupied Palestinian Territory	**-0.0290±0.0113**	**-0.4670±0.1826**	2006	0.0314±0.0349	0.5336±0.5925	**-0.0739±0.0238**	**-1.1904±0.3839**
Oman	0.0014±0.0017	0.2335±0.2796	2011	0.0038±0.0029	0.6574±0.5016	**-0.0191±0.0041**	**-2.7691±0.5890**
Pakistan	**0.0208±0.0030**	**2.3023±0.3363**	2011	**0.0335±0.0044**	**4.0560±0.5381**	**-0.0242±0.0088**	**-1.8079±0.6563**
Palau	0.0004±0.0023	1.0487±6.5205	2011	**0.0117±0.0034**	**35.1571±10.1795**	**-0.0263±0.0078**	**-28.3565±8.4076**
Panama	**0.0056±0.0021**	**0.9313±0.3520**	2000	-0.0376±0.0245	-4.9519±3.2328	**0.0112±0.0023**	**1.9829±0.4106**
Papua New Guinea	-0.0011±0.0017	-0.4199±0.6719	2012	0.0045±0.0024	2.0089±1.0687	**-0.0340±0.0077**	**-10.8245±2.4424**
Paraguay	**0.0184±0.0054**	**2.5541±0.7540**	2000	-0.0602±0.0494	-5.7158±4.6892	**0.0361±0.0060**	**6.2212±1.0286**
Peru	**0.0048±0.0023**	**1.0578±0.5008**	2010	**0.0139±0.0034**	**3.5134±0.8623**	**-0.0289±0.0077**	**-4.5065±1.195**
Philippines	**-0.0064±0.0023**	**-0.9782±0.3435**	-	-	-	-	-
Poland	**-0.0245±0.0092**	**-0.6191±0.2323**	-	-	-	-	-
Portugal	-0.008±0.0107	-0.4469±0.5982	2005	**0.1169±0.0264**	**9.9875±2.2602**	**-0.0933±0.0158**	**-4.0221±0.6799**
Puerto Rico	**-0.0222±0.0035**	**-1.5354±0.2396**	2005	0.0062±0.0121	0.4776±0.9298	**-0.0490±0.0049**	**-3.375±0.3392**
Qatar	**0.0880±0.0086**	**2.8375±0.2772**	2004	-0.0051±0.0286	-0.1483±0.8283	**0.1094±0.0165**	**3.0132±0.4541**
Republic of Moldova	**0.0232±0.0078**	**1.3517±0.4519**	2000	**-0.1921±0.0619**	**-8.7806±2.8311**	**0.0313±0.0105**	**1.8294±0.6159**
Reunion	**-0.0087±0.0029**	**-0.9711±0.3196**	-	-	-	-	-
Romania	**-0.0095±0.0041**	**-0.4375±0.1893**	-	-	-	-	-
Russia	**0.0065±0.0018**	**1.2970±0.3503**	2000	**-0.0204±0.0072**	**-3.7857±1.3259**	**0.0053±0.0023**	**0.9787±0.4302**
Rwanda	0.0048±0.0036	0.4227±0.3124	-	-	-	-	-
Saint Helena	0.002±0.0034	0.6229±1.0762	2000	**-0.0944±0.0301**	**-16.3114±5.2061**	0.0081±0.0041	3.2262±1.6367
Saint Lucia	**-0.0111±0.002**	**-2.2482±0.4113**	-	-	-	-	-
Saint Pierre and Miquelon	0.0046±0.0049	18.3108±19.2788	-	-	-	-	-
Saint Vincent	-0.0024±0.0018	-0.6429±0.4857	2011	0.0054±0.0028	1.6802±0.8685	**-0.0394±0.006**	**-8.7857±1.3412**
Sao Tome and Principe	0.0043±0.0025	0.6455±0.3720	2010	0.0071±0.0048	1.1260±0.7615	**-0.0182±0.008**	**-2.2260±0.9838**
Saudi Arabia	0.0013±0.0020	0.1253±0.1958	2011	0.0007±0.0036	0.0715±0.3454	**-0.0307±0.0049**	**-2.5586±0.4086**
Senegal	-0.0013±0.0025	-0.1413±0.2828	2011	0.0057±0.0038	0.6671±0.4461	**-0.0341±0.0122**	**-3.4912±1.2513**
Serbia and Montenegro	0.0096±0.0072	0.4544±0.3430	-	-	-	-	-
Seychelles	**0.0100±0.0028**	**90.5183±25.5488**	2000	**-0.0344±0.0166**	**-98.5144±47.5564**	0.0041±0.0035	3.5286±2.9576
Sierra Leone	-0.0019±0.0032	-0.1684±0.2927	2002	**-0.0560±0.0244**	**-4.5381±1.9821**	0.0001±0.0043	0.0064±0.3946
Singapore	0.0213±0.0459	0.2280±0.4915	-	-	-	-	-
Slovakia	**-0.0312±0.0098**	**-0.9573±0.3003**	-	-	-	-	-
Slovenia	**-0.0788±0.0114**	**-1.8982±0.2752**	-	-	-	-	-
Solomon Islands	-0.0028±0.0017	-2.4917±1.5541	2011	**0.0082±0.0015**	**19.3010±3.5311**	**-0.0456±0.0063**	**-24.4952±3.4029**
Somalia	-0.003±0.0016	-0.9000±0.4692	-	-	-	-	-
South Africa	**-0.0198±0.0041**	**-0.7815±0.1604**	-	-	-	-	-
Spain	**-0.0291±0.0078**	**-1.2120±0.3263**	2006	**0.0588±0.0180**	**2.9974±0.9178**	**-0.0802±0.0109**	**-3.3243±0.4535**
Sri Lanka	**0.0102±0.0026**	**1.9198±0.4955**	2012	**0.0227±0.0032**	**5.0066±0.6998**	**-0.0346±0.0125**	**-4.5187±1.6306**
Sudan	**-0.0064±0.0027**	**-0.6923±0.2884**	-	-	-	-	-
Suriname	**-0.0056±0.0012**	**-2.2856±0.5028**	-	-	-	-	-
Swaziland	**0.1794±0.0401**	**2.8767±0.6426**	-	-	-	-	-
Sweden	-0.0165±0.0085	-1.4335±0.7371	2010	0.0047±0.0157	0.4572±1.5157	**-0.1017±0.0336**	**-8.0913±2.6696**
Switzerland	**-0.0308±0.0080**	**-1.0130±0.2632**	-	-	-	-	-
Syrian Arab Republic	**0.0188±0.0061**	**1.1265±0.3665**	2012	**0.0487±0.0069**	**3.2961±0.4683**	**-0.1024±0.0161**	**-4.7261±0.7427**
Taiwan	**-0.1192±0.0125**	**-1.7961±0.1878**	-	-	-	-	-
Tajikistan	-0.0053±0.0032	-0.6894±0.4173	-	-	-	-	-
Thailand	**0.0185±0.0041**	**1.3299±0.2967**	2001	**-0.0844±0.0270**	**-5.1037±1.6331**	**0.0283±0.0054**	**2.0382±0.3893**
Togo	-0.0025±0.0040	-0.1975±0.3190	2011	**0.0159±0.0053**	**1.3835±0.4578**	-0.0315±0.0243	-2.4742±1.9129
Tonga	**-0.0058±0.0014**	**-2.597±0.6438**	-	-	-	-	-
Trinidad and Tobago	0.0048±0.0030	0.7763±0.4876	2011	**0.0121±0.0049**	**2.1233±0.8502**	**-0.0341±0.0128**	**-4.2440±1.5982**
Tunisia	**0.0075±0.0020**	**1.0234±0.2715**	2012	**0.0122±0.0027**	**1.7361±0.3808**	**-0.0419±0.0109**	**-4.2392±1.1033**
Turkey	**0.0152±0.0038**	**1.1898±0.2942**	2012	**0.0166±0.0057**	**1.3080±0.4521**	-0.0136±0.0223	-0.8418±1.3730
Turkmenistan	**0.0080±0.0018**	**1.3365±0.3058**	2012	**0.0126±0.0026**	**2.2023±0.4633**	**-0.0207±0.0092**	**-2.5887±1.1523**

Turks and Caicos Islands	**-0.0104±0.0022**	**-1.4248±0.2947**	-	-	-	-	-
Uganda	0.0040±0.0031	0.4122±0.3204	-	-	-	-	-
Ukraine	**0.0230±0.0056**	**1.1157±0.2737**	**2000**	-0.0999±0.0573	-4.3258±2.4805	**0.0247±0.0072**	**1.1630±0.3410**
United Arab Emirates	**0.0408±0.0043**	**1.9971±0.2082**	**2008**	**0.0594±0.0101**	**3.0777±0.5209**	-0.0076±0.0108	-0.2738±0.3884
United Kingdom	**-0.1382±0.0145**	**-2.3057±0.2412**	-	-	-	-	-
United Rep. of Tanzania	0.0019±0.0025	0.2627±0.3447	**2009**	**0.0120±0.0039**	**1.8099±0.5831**	**-0.0247±0.0092**	**-2.9026±1.0848**
United States of America	**-0.0599±0.0056**	**-2.3570±0.2204**	-	-	-	-	-
United States Virgin Islands	**-0.0063±0.0028**	**-1.1100±0.5002**	**2010**	0.0082±0.0051	1.6927±1.0481	**-0.0431±0.0074**	**-7.0744±1.2163**
Uruguay	**0.01300±0.0035**	**2.1241±0.5704**	**2001**	-0.0345±0.0231	-4.313±2.8919	**0.0226±0.0047**	**3.915±0.8233**
Uzbekistan	**0.0159±0.0017**	**2.2855±0.2471**	-	-	-	-	-
Vanuatu	**-0.0049±0.0015**	**-2.0351±0.6135**	-	-	-	-	-
Venezuela	-0.0013±0.0026	-0.1965±0.3938	-	-	-	-	-
Viet Nam	**0.0331±0.0036**	**4.5861±0.4982**	**2002**	-0.0215±0.0188	-2.3865±2.0850	**0.0409±0.0053**	**4.8399±0.6269**
Western Samoa	**-0.0043±0.0016**	**-2.9344±1.0942**	**2011**	0.0006±0.0026	0.5205±2.1668	**-0.0264±0.0064**	**-17.4793±4.2234**
Yemen	0.0002±0.0021	0.0255±0.3355	**2012**	0.0053±0.0028	0.9131±0.4802	**-0.0393±0.0086**	**-5.4864±1.2043**
Zambia	-0.0017±0.0021	-0.1651±0.2030	-	-	-	-	-
Zimbabwe	**-0.0081±0.0031**	**-0.6798±0.2654**	-	-	-	-	-