

Table 1 Summary of specific a priori emissions (Mg/yr) for China mainland, Taiwan region, South Korea, Japan and the entire Globe used in the reference inversion.

	Mainland_China	Taiwan_region	South_Korea	Japan	Globe
2006	1299	125	669	205	6395
2007	1587	125	707	184	6965
2008	1695	119	728	159	7290
2009	1848	123	778	77	7657
2010	2091	123	692	78	8034
2011	2234	123	628	105	8412
2012	2470	123	628	105	8789

Table 2 Correlation test for SF₆ emissions in different Chinese regions

		North_C hina	Northeas t_China	East_ China	Middle_ China	South_ China	Southw est_Chi na	Northwe st_China
North_C hina	Pearson Correlation	1	0.490	0.670	0.293	-0.307	0.602	0.662
	Sig. (2-tailed)		0.265	0.100	0.523	0.503	0.153	0.106
	N		7	7	7	7	7	7
Northeas t_China	Pearson Correlation		1	0.716	0.662	0.114	0.636	0.157
	Sig. (2-tailed)			0.070	0.105	0.808	0.124	0.737
	N			7	7	7	7	7
East_Chi na	Pearson Correlation			1	0.661	-0.287	0.803*	0.661
	Sig. (2-tailed)				0.106	0.533	0.030	0.106
	N				7	7	7	7
Middle_ China	Pearson Correlation				1	0.133	0.785*	0.571
	Sig. (2-tailed)					0.777	0.036	0.180
	N					7	7	7
South_C hina	Pearson Correlation					1	-0.112	-0.444
	Sig. (2-tailed)						0.812	0.319
	N						7	7
Southwe st_China	Pearson Correlation						1	0.749
	Sig. (2-tailed)							0.053
	N							7
Northwe st_China	Pearson Correlation							1
	Sig. (2-tailed)							
	N							

* Correlation is significant at the 0.05 level (2-tailed).