

Supplementary Materials: Urban Built-up Areas in Transitional Economies of Southeast Asia: Spatial Extent and Dynamics

Zutao Ouyang, Peilei Fan and Jiquan Chen

Table S1. Cloud-free Landsat dataset used in this study.

Sensor	Path	Row	Year	DOY
Landsat 5	132	45	2010	43
Landsat 5	131	45	2009	65
Landsat 5	130	51	2009	330
Landsat 5	133	42	2010	98
Landsat 5	131	50	2010	84
Landsat 5	133	43	2010	34
Landsat 5	131	49	2010	84
Landsat 5	133	47	2010	50
Landsat 5	132	46	2010	11
Landsat 5	134	43	2009	118
Landsat 5	132	44	2010	43
Landsat 5	128	47	2009	44
Landsat 5	129	46	2010	310
Landsat 5	133	48	2010	50
Landsat 5	133	46	2010	82
Landsat 5	134	46	2010	41
Landsat 5	126	50	2010	49
Landsat 5	126	51	2009	334
Landsat 5	129	47	2011	41
Landsat 5	125	51	2010	58
Landsat 5	134	45	2010	41
Landsat 5	127	44	2009	309
Landsat 5	133	45	2010	354
Landsat 5	129	45	2010	38
Landsat 5	129	45	2009	307
Landsat 5	133	44	2010	34
Landsat 5	124	52	2011	38
Landsat 5	124	51	2011	38
Landsat 5	124	50	2011	38
Landsat 5	124	49	2010	211
Landsat 5	129	44	2010	38
Landsat 5	128	45	2009	12
Landsat 5	127	53	2010	360
Landsat 5	127	47	2010	56
Landsat 5	127	46	2009	36
Landsat 5	128	44	2010	15
Landsat 5	127	45	2009	309
Landsat 5	126	53	2009	104
Landsat 5	126	48	2009	46
Landsat 5	125	49	2009	279
Landsat 5	125	48	2010	186
Landsat 5	126	47	2009	190
Landsat 5	125	50	2010	362
Landsat 5	125	49	2010	186
Landsat 5	126	46	2010	305
Landsat 5	126	45	2010	305
Landsat 5	125	54	2009	343

Landsat 5	125	53	2009	343
Landsat 5	125	52	2009	343
Landsat 5	125	45	2009	327
Landsat 5	124	53	2009	352
Landsat 5	123	51	209	233
Landsat 5	123	52	2009	185
Landsat 7	123	51	2010	39
Landsat 7	123	52	2009	17

Table S2. DMSP/OLS data used in this study and the coefficient for the inter-calibration applied to the digital values in time series.

Satellite	Year	C ₀	C ₁	C ₂
F10	1992	−2.0570	1.5903	−0.0090
F10	1993	−1.0582	1.5983	−0.0093
F10	1994	−0.3458	1.4864	−0.0079
F12	1995	−0.0515	1.2293	−0.0038
F12	1996	−0.0959	1.2727	−0.0040
F12	1997	−0.3321	1.1782	−0.0026
F14	1998	−0.1917	1.6321	−0.0101
F14	1999	−0.1557	1.5055	−0.0078
F14	2000	1.0988	1.3155	−0.0053
F15	2001	−0.7024	1.1081	−0.0012
F15	2002	0.0491	0.9568	0.0010
F15	2003	0.2217	1.5122	−0.0080
F15	2004	0.5751	1.3335	−0.0051
F15	2005	0.6367	1.2838	−0.0041
F15	2006	0.8261	1.2790	−0.0041
F16	2007	0.6394	0.9114	0.0014
F16	2008	0.5564	0.9931	0.0000
F16	2009	0.9492	1.0683	−0.0016
F18	2010	2.3430	0.5102	0.0065

The form of the calculation is: $Y = C_0 + C_1X + C_2X^2$, where Y is the DN of the year needs calibration, and X is the F12-1999 DN. Please see details from: Elvidge, C.D.; Ziskin, D.; Baugh, K.E.; Tuttle, B.T.; Ghosh, T.; Pack, D.W.; Erwin, E.H.; Zhizhin, M. A Fifteen Year Record of Global Natural Gas Flaring Derived from Satellite Data. *Energies* 2009, 2, 595–622.