**A Meta-Analysis of Global Urban Land Expansion**

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165. Xie YC, Mei Y, Tian GJ, Xing XR (2005) Socio-econornic driving forces of arable land conversion: A case study of Wuxian City, China. Global Environmental Change-Human and Policy Dimensions 15: 238-252.

166. Xu C, Liu M, An S, Chen JM, Yan P (2007) Assessing the impact of urbanization on regional net primary productivity in Jiangyin County, China. Journal of Environmental Management 85: 597-606.

167. Xu H, Wang X, Xiao G (2000) A remote sensing and GIS integrated study on urbanization with its impact on arable lands: Fuqing City, Fujian Province, China. Land Degradation & Development 11: 301-314.

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174. Yu X, Ng C (2006) An integrated evaluation of landscape change using remote sensing and landscape metrics: a case study of Panyu, Guangzhou. International Journal of Remote Sensing 27: 1075-1092.

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176. Yuan F, Sawaya KE, Loeffelholz BC, Bauer ME (2005) Land cover classification and change analysis of the Twin Cities (Minnesota) Metropolitan Area by multitemporal Landsat remote sensing. Remote Sensing of Environment 98: 317-328.

177. Zeng H, Sui DZ, Li SJ (2005) Linking urban field theory with GIS and remote sensing to detect signatures of rapid urbanization on the landscape: Toward a new approach for characterizing urban sprawl. Urban Geography 26: 410-434.

178. Zhang XL, Chen J, Tan MZ, Sun YC (2007) Assessing the impact of urban sprawl on soil resources of Nanjing city using satellite images and digital soil databases. Catena 69: 16-30.

179. Zhao SQ, Da LJ, Tang ZY, Fang HJ, Song K, et al. (2006) Ecological consequences of rapid urban expansion: Shanghai, China. Frontiers in Ecology and the Environment 4: 341-346.

180. Zhao SQ, Fang JY (2004) Impact of impoldering and lake restoration on land-cover changes in Dongting Lake area, Central Yangtze. Ambio 33: 311-315.

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**List of studies not included in our meta-analysis (with reasons noted)**

182. Abdullah SA, Nakagoshi N (2007) Forest fragmentation and its correlation to human land use change in the state of Selangor, peninsular Malaysia. Forest Ecology and Management 241: 39-48. Does not meet criterion 4.

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184. Bergen KM, Brown DG, Rutherford JF, Gustafson EJ (2005) Change detection with heterogeneous data using ecoregional stratification, statistical summaries and a land allocation algorithm. Remote Sensing of Environment 97: 434-446. Does not meet criterion 1.

185. Chen SP, Zeng S, Xie CG (2000) Remote sensing and GIS for urban growth analysis in China. Photogrammetric Engineering and Remote Sensing 66: 593-598. Does not meet criterion 4.

186. Chen S-S, Chen L-S, Liu Q-H, Li X, Tan Q (2005) Remote sensing and GIS-based integrated analysis of coastal changes and their environmental impacts in Lingding Bay, Pearl River Estuary, South China. Ocean & Coastal Management 48: 65-83. Does not meet criterion 4.

187. Chen XL, Bao SM, Li H, Cai XB, Guo P, et al. (2007) LUCC impact on sediment loads in subtropical rainy areas. Photogrammetric Engineering and Remote Sensing 73: 319-327. Does not meet criterion 1.

188. Chen ZJ, Chen J, Shi PJ, Tamura M (2003) An IHS-based change detection approach for assessment of urban expansion impact on arable land loss in China. International Journal of Remote Sensing 24: 1353-1360. Does not meet criterion 4.

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190. Dai E, Wu SH, Shi WZ, Cheung CK, Shaker A (2005) Modeling change-pattern-value dynamics on land use: An integrated GIS and artificial neural networks approach. Environmental Assessment 36: 576-591. Does not meet criterion 1.

191. Dewidar KM (2004) Detection of land use land cover changes for the northern part of the Nile delta (Burullus region), Egypt. International Journal of Remote Sensing 25: 4079-4089. Does not meet criterion 4.

192. Du Y, Xie ZQ, Zeng Y, Shi YF, Wu JG (2007) Impact of urban expansion on regional temperature change in the Yangtze River Delta. Journal of Geographical Sciences 17: 387-398. Does not meet criterion 3.

193. Duran Z, Musaoglu N, Seker DZ (2006) Evaluating urban land use change in historical peninsula, Istanbul, by using gis and remote sensing. Fresenius Environmental Bulletin 15: 806-810. Does not meet criterion 4.

194. El-Raey M, Fouda Y, Gal P (2000) GIS for environmental assessment of the impacts of urban encroachment on Rosetta Region, Egypt. Environmental Monitoring and Assessment 60: 217-233. Does not meet criterion 4.

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196. Gao J, Liu YS, Chen YF (2006) Land cover changes during agrarian restructuring in Northeast China. Applied Geography 26: 312-322. Does not meet criterion 1.

197. Geymen A, Baz I (2008) Monitoring urban growth and detecting land-cover changes on the Istanbul metropolitan area. Environmental Monitoring and Assessment 136: 449-459. Does not meet criterion 4.

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199. He CY, Shi PJ, Li JG, Chen J, Pan YZ, et al. (2006) Restoring urbanization process in China in the 1990s by using non-radiance calibrated DMSP/OLS nighttime light imagery and statistical data. Chinese Science Bulletin 51: 1-7. Does not meet criterion 1.

200. Helmer EH (2004) Forest conservation and land development in Puerto Rico. Landscape Ecology 19: 29-40. Does not meet criterion 3.

201. Ho SPS, Lin GCS (2004) Non-Agricultural Land Use in Post-Reform China. China Quarterly 179: 758-781. Does not meet criterion 4.

202. Huang J, Zhu L, Deng X (2007) Regional differences and determinants of built-up area expansion in China. Science in China (Series D)-Earth Sciences 50: 1835-1843. Does not meet criterion 1.

203. Jantz P, Goetz S, Jantz C (2005) Urbanization and the loss of resource lands in the Chesapeake Bay watershed. Environmental Management 36: 808-825. Does not meet criterion 1.

204. Ji CY, Liu QH, Sun DF, Wang S, Lin P, et al. (2001) Monitoring urban expansion with remote sensing in China. International Journal of Remote Sensing 22: 1441-1455. Does not meet criterion 1.

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206. Kavzoglu T (2008) Determination of environmental degradation due to urbanization and industrialization in Gebze, Turkey. Environmental Engineering Science 25: 429-438. Does not meet criterion 4.

207. Kaya S (2007) Multitemporal analysis of rapid urban growth in Istanbul using remotely sensed data. Environmental Engineering Science 24: 228-233. Does not meet criterion 4.

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210. Kucukmehmetoglu M, Geymen A (2008) Measuring the spatial impacts of urbanization on the surface water resource basins in Istanbul via remote sensing. Environmental Monitoring and Assessment 142: 153-169. Does not meet criterion 4.

211. Lenney MP, Woodcock CE, Collins JB, Hamdi H (1996) The status of agricultural lands in Egypt: The use of multitemporal NDVI features derived from Landsat TM. Remote Sensing of Environment 56: 8-20. Does not meet criterion 4.

212. Li X, Yeh AGO (2004) Analyzing spatial restructuring of land use patterns in a fast growing region using remote sensing and GIS. Landscape and Urban Planning 69: 335-354. Does not meet criterion 3.

213. Li Y, Zhao SQ, Zhao K, Xie P, Fang JY (2006) Land-cover changes in an urban lake watershed in a mega-city, Central China. Environmental Monitoring and Assessment 115: 349-359. Does not meet criterion 4.

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217. Liu JY, Zhan JY, Deng XZ (2005) Spatio-temporal patterns and driving forces of urban land expansion in china during the economic reform era. Ambio 34: 450-455. Does not meet criterion 1.

218. Liu YS, Wang DW, Gao J, Deng W (2005) Land use/cover changes, the environment and water resources in Northeast China. Environmental Management 36: 691-701. Does not meet criterion 1.

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220. Lo CP, Yang XJ (2002) Drivers of land-use/land-cover changes and dynamic modeling for the Atlanta, Georgia Metropolitan Area. Photogrammetric Engineering and Remote Sensing 68: 1073-1082. Does not meet criterion 2.

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222. Maktav D, Erbek FS (2005) Analysis of urban growth using multi-temporal satellite data in Istanbul, Turkey. International Journal of Remote Sensing 26: 797-810. Does not meet criterion 4.

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227. Musaoglu N, Gurel M, Ulugtekin N, Tanik A, Seker DZ (2006) Use of remotely sensed data for analysis of land-use change in a highly urbanized district of mega city, Istanbul. Journal of Environmental Science and Health Part a-Toxic/Hazardous Substances & Environmental Engineering 41: 2057-2069. Does not meet criterion 4.

228. Ouyang TP, Kuang YQ, Hu ZY, Sun B (2005) Urbanization in the Pearl River Delta Economic Zone, China. International Journal of Sustainable Development and World Ecology 12: 48-54. Does not meet criterion 3.

229. Qi SZ, Luo F (2006) Land-use change and its environmental impact in the Heihe River Basin, arid northwestern China. Environmental Geology 50: 535-540. Does not meet criterion 1.

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233. Ramadan E, Feng X-z, Cheng Z (2004) Satellite remote sensing for urban growth assessment in Shaoxing City, Zhejiang Province. Journal of Zhejiang University Science 5: 1095-1101. Does not meet criterion 4.

234. Robinson L, Newell JP, Marzluff JA (2005) Twenty-five years of sprawl in the Seattle region: growth management responses and implications for conservation. Landscape and Urban Planning 71: 51-72. Does not meet criterion 4.

235. Salas WA, Boles SH, Frolking S, Xiao X, Li C (2003) The perimeter/area ratio as an index of misregistration bias in land cover change estimates. International Journal of Remote Sensing 24: 1165-1170. Does not meet criterion 3.

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241. Streets D, Chung C, Krummel J, Su H (1995) Remote sensing of global change: Growth in China's Jiangsu province. International Journal of Sustainable Development and World Ecology 2: 257-266. Does not meet criterion 3.

242. Sultan M, Fiske M, Stein T, Gamal M, Hady YA, et al. (1999) Monitoring the urbanization of the Nile Delta, Egypt. Ambio 28: 628-631. Does not meet criterion 4.

243. Tan MH, Li XB, Lu CH (2005) Urban land expansion and arable land loss of the major cities in China in the 1990s. Science in China (Series D)-Earth Sciences 48: 1492-1500. Does not meet criterion 3.

244. Tan MH, Li XB, Xie H, Lu CH (2005) Urban land expansion and arable land loss in China - a case study of Beijing-Tianjin-Hebei region. Land Use Policy 22: 187-196. Does not meet criterion 3.

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249. Wang YQ, Tobey J, Bonynge G, Nugranad J, Makota V, et al. (2005) Involving geospatial information in the analysis of land-cover change along the Tanzania coast. Coastal Management 33: 87-99. Does not meet criterion 1.

250. Wang ZM, Zhang B, Zhang SQ, Li XY, Liu DW, et al. (2006) Changes of land use and of ecosystem service values in Sanjiang Plain, northeast China. Environmental Monitoring and Assessment 112: 69-91. Does not meet criterion 1.

251. Weng Q, Yang S (2004) Managing the adverse thermal effects of urban development in a densely populated Chinese city. Journal of Environmental Management 70: 145-156. Does not meet criterion 4.

252. Weng QH (2002) Land use change analysis in the Zhujiang Delta of China using satellite remote sensing, GIS and stochastic modelling. Journal of Environmental Management 64: 273-284. Does not meet criterion 2.

253. Weng QH, Yang SH (2006) Urban air pollution patterns, land use, and thermal landscape: An examination of the linkage using GIS. Environmental Monitoring and Assessment 117: 463-489. Does not meet criterion 2.

254. Woomer PL, Tieszen LL, Tappan G, Toure A, Sall M (2004) Land use change and terrestrial carbon stocks in Senegal. Journal of Arid Environments 59: 625-642. Does not meet criterion 1.

255. Xian G, Crane M (2005) Assessments of urban growth in the Tampa Bay watershed using remote sensing data. Remote Sensing of Environment 97: 203-215. Does not meet criterion 2.

256. Xian G, Crane M (2006) An analysis of urban thermal characteristics and associated land cover in Tampa Bay and Las Vegas using Landsat satellite data. Remote Sensing of Environment 104: 147-156. Does not meet criterion 2.

257. Xu C, Liu MS, Zhang C, An SQ, Yu W, et al. (2007) The spatiotemporal dynamics of rapid urban growth in the Nanjing metropolitan region of China. Landscape Ecology 22: 925-937. Does not meet criterion 4.

258. Yener H, Koc A (2006) Monitoring changes in forest and other land use forms in Istanbul. Journal of Environmental Biology 27: 77-83. Does not meet criterion 4.

259. Yildirim H, Ozel ME, Divan NJ (2002) Satellite monitoring of land cover/land use change over 15 years and its impact on the environment in Gebze/Kocaeli - Turkey. Turkish Journal of Agriculture and Forestry 26: 161-170. Does not meet criterion 4.

260. Yu XJ, Ng CN (2007) Spatial and temporal dynamics of urban sprawl along two urban-rural transects: A case study of Guangzhou, China. Landscape and Urban Planning 79: 96-109. Does not meet criterion 3.

261. Zhang H, Ma WC, Wang XR (2008) Rapid urbanization and implications for flood risk management in hinterland of the Pearl River Delta, China: The Foshan study. Sensors 8: 2223-2239. Does not meet criterion 2.

262. Zhang H, Wang XR (2007) Land-use dynamics and flood risk in the hinterland of the Pearl River Delta: The case of Foshan City. International Journal of Sustainable Development and World Ecology 14: 485-492. Does not meet criterion 3.

263. Zhang Q, Wang J, Peng X, Gong P, Shi P (2002) Urban built-up land change detection with road density and spectral information from multi-temporal Landsat TM data. International Journal of Remote Sensing 23: 3057-3078. Does not meet criterion 4.

264. Zhao B, Kreuter U, Li B, Ma ZJ, Chen JK, et al. (2004) An ecosystem service value assessment of land-use change on Chongming Island, China. Land Use Policy 21: 139-148. Does not meet criterion 4.

265. Zhao B, Nakagoshi N, Chen JK, Kong LY (2003) The impact of urban planning on land use and land cover in Pudong of Shanghai, China. Journal of Environmental Sciences-China 15: 205-214. Does not meet criterion 4.