Data Description

Data Number （will be filled by the Commons Center）	DPPSCdbp_2016-8en
Title	Database on the land use/cover changes in megacities of China
Creator	Representative: Yuji MURAYAMA Ronald C. ESTOQUE, Shyamantha SUBASINGHE, Hao HOU, Hao GONG, Matamyo SIMWANDA, Xinmin ZHANG
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Summary (Subject and/or Methodology for generarion)	The primary objective of this project is to establish a database of LULC maps derived from remote sensing satellite imageries (Landsat imageries) for major Chinese cities. It also aims to detect the changes in the landscape of these cities and examine how the spatial structure of each city has changed over the years (2000–2014). Eight LULC classes were considered: urban dense, urban sparse, forest, cropland, grassland, bareland, water and other land. The other land class includes clouds, shadow and snow. For the purpose of an objective comparison, we used a standardized unit of analysis, i.e. a 100 km × 100 km study area for each city.
Update History (Versions, File names, Dates)	Newly constructed.
Data formats	Original Data: TIF file KML file is also available.
Data sizes	Land use/cover original data：281.601MB
Things to be aware of when using the data (e.g., required metadata)	NA
Related reports and/or papers	Murayama, Y., Estoque, R.C., Subasinghe, S., Hou, H., Gong, H., SIMWANDA, M., and ZHANG, X. 2016. Visualization of Land Use Changes in Major Asian and African Cities. Annual Report on the Multi Use Social and Economic Data Bank.http://giswin.geo.tsukuba.ac.jp/megacities/data/2016_megacities_project_report.pdf
Other remarks	The data is available from the following site: http://giswin.geo.tsukuba.ac.jp/mega-cities/dashboard.html http://giswin.geo.tsukuba.ac.jp/mega-cities/china_index.html