

Data Description

Data Number (will be filled by the Commons Center)	DPPSCdbp_2017-5en
Title	Database on heat island effect of megacities in the developing countries
Creator	Representative: Yuji MURAYAMA Ronald C. ESTOQUE, Shyamantha SUBASINGHE, Hao HOU, Hao GONG, Matamyo SIMWANDA, Xinmin ZHANG
Contact information	Yuji Murayama, Faculty of Life and Environmental Sciences (Tel:853-4211)
Summary (Subject and/or Methodology for generation)	The primary objective of this project is to establish a database of heat island maps derived from remote sensing satellite imageries (Landsat imageries) for major cities in the developing countries. 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).
Update History (Versions, File names, Dates)	LST database (Second edition, January 2018)
Data formats	Original Data: TIF file KML file is also available.
Data sizes	LST original data : 1.34GB
Things to be aware of when using the data (e.g., required metadata)	NA
Related reports and/or papers	1)M Ranagalage, RC Estoque, Y Murayama, 2017. An urban heat island study of the Colombo metropolitan area, Sri Lanka, based on Landsat data (1997–2017). <i>ISPRS International Journal of Geo-Information</i> 6 (7), 189 2)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