

Citation:

Seo, B et al. (2013): Per-field land use and land cover data set of the Haean catchment, South Korea. doi:10.1594/PANGAEA.823677,

Supplement to: Seo, Bumsuk; Bogner, Christina; Poppenborg, Patrick; Martin, Emily; Hoffmeister, Mathias; Jun, Mansig; Koellner, Thomas; Reineking, Björn; Shope, Christopher L.; Tenhunen, John (2013): Deriving a per-field land use and land cover map in an agricultural mosaic catchment. *Earth System Science Data*, under discussion

Abstract:

The Haean Land Use and Land Cover (LULC) observation data is a per-field vector GIS data of the Haean catchment, South Korea. The area is characterised by intensive agriculture. The information provided here includes the land use and land cover census data (80 LULC classes) in a polygon shape file for three years (2009 - 2011). In addition to description of the original data, a reclassification table is supplied for compatibility with the land cover type definition of the International Geosphere Biosphere Programme (IGBP). The data was collected as part of the International Research and Training Group TERRECO (Complex TERRain and ECOlogical Heterogeneity) funded by the Deutsche Forschungsgemeinschaft (DFG) and Korea Science and Engineering Foundation (KOSEF). Vector data such as provided here can be a substantial input to LULC studies as well as to earth science modeling.

Related to:

Martin, Emily; Reineking, Björn; Seo, Bumsuk; Steffan-Dewenter, Ingolf (2013): Natural enemy interactions constrain pest control in complex agricultural landscapes. *Proceedings of the National Academy of Sciences of the United States of America*, **110**(14), 5534-5539, doi:10.1073/pnas.1215725110 🔍

Shope, Christopher L.; Maharjan, Ganga Ram; Tenhunen, John; Seo, Bumsuk; Kim, Kiyong; Riley, Jeanne; Arnhold, Sebastian; Koellner, Thomas; Ok, Yongsik; Peiffer, Stefan; Kim, Bomchul; Park, Jihyung; Huwe, Bernd (2014): Using the SWAT model to improve process descriptions and define hydrologic partitioning in South Korea. *Hydrology and Earth System Sciences*, **18, 539-557, doi:10.5194/hess-18-539-2014**

7. Files

HaeanCover_ReadMe.pdf Readme explaining all files

HaeanCover_shapefile.zip Original LULC survey data for three years (HaeanCover.shp) with QA and additional information included.

HaeanCover_IGBP_lookup.xls A lookup table with respect to the IGBP Land cover system v2.0

HaeanCover_Preview.qgs Preview and the color map of the HaeanCover (for Quantum GIS)

HaeanCover_Legend.xls Legend of the land cover map LULC name linked with the corresponding land cover details

HaeanCover_Preview.jpg Preview image (LULC classes 2010)



17 Apr 2014

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Hope, C L; Maharjan, G R; Tenhunen, John (2013): An interdisciplinary swat ecohydrological model to define catchment-scale hydrologic partitioning. *(Discussions) data submission* <http://issues.pangaea.de/browse/PDI-6781>, *Hydrology and Earth System Sciences*, **10**, 7235-7290, doi:10.5194/hessd-10-7235-2013 



Other version [Preview and the color map of the HaeAnCover \(for Quantum GIS\)](#) 
Preview image (LULC classes 2010) 

Further details [Lookup table with respect to the IGBP Land cover system v2.0](#) 
[Legend of the land cover map LULC name linked with the corresponding land cover details](#) 

Readme - description of the LULC data set 

Coverage [Median Latitude: 38.276980 * Median Longitude: 128.134950 * South-bound Latitude: 38.224800 * West-bound Longitude: 128.083800 * North-bound Latitude: 38.329160 * East-bound Longitude: 128.186100](#)

[Minimum Elevation: 20000.0 m * Maximum Elevation: -20000.0 m](#)

Event [HaeAnCover](#)  [* Latitude Start: 38.224800 * Longitude Start: 128.083800 * Latitude End: 38.329160 * Longitude End: 128.186100 * Location: HaeAn catchment, South Korea](#) 

Comment: International Research Training Group TERRECO funded by the Deutsche Forschungsgemeinschaft (DFG, GRK 1565/1) and the Korea Science and Engineering Foundation (KOSEF) <http://www.bayceer.uni-bayreuth.de/terreco/>

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Size [1713.0 kBytes](#)