

# Global Land Cover Facility

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UMD Land Cover Classification

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## UMD Land Cover Classification

### Data Access

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### Overview

The University of Maryland Department of Geography generated this global land cover classification collection in 1998. Imagery from the AVHRR satellites acquired between 1981 and 1994 were analyzed to distinguish fourteen land cover classes. This product is available at three spatial scales: 1 degree, 8 kilometer and 1 kilometer pixel resolutions.



### Code Values for 1km and 8km data

Value	Label	RGB Red	RGB Green	RGB Blue
0	Water	068	079	137
1	Evergreen Needleleaf Forest	001	100	000
2	Evergreen Broadleaf Forest	001	130	000
3	Deciduous Needleleaf Forest	151	191	071
4	Deciduous Broadleaf Forest	002	220	000
5	Mixed Forest	000	255	000
6	Woodland	146	174	047
7	Wooded Grassland	220	206	000
8	Closed Shrubland	255	173	000
9	Open Shrubland	255	251	195
10	Grassland	140	072	009
11	Cropland	247	165	255
12	Bare Ground	255	199	174
13	Urban and Built	000	255	255

### Code Values for 1 degree data

Value	Label	RGB Red	RGB Green	RGB Blue
0	Water	068	079	137
1	Broadleaf Evergreen Forest	001	130	000
2	Coniferous Evergreen Forest and Woodland	001	130	000
3	High latitude Deciduous Forest and Woodland	151	191	071
4	Tundra	255	255	255
5	Mixed Coniferous Forest and Woodland	000	255	000
6	Wooded Grassland	220	206	000
7	Grassland	140	072	009
8	Bare Ground	255	199	174
9	Shrubs and Bare Ground	255	251	195
10	Cultivated Crops	247	165	255
11	Broadleaf Deciduous Forest and Woodland	002	220	000
12	Data Unavailable	000	000	000

### How to Cite This Data Set

**Citation Format:** Author (Publication Date), Collection Name, Product Name, Processing Level, Publisher, Publisher Location, Product Coverage Date.

### Citation Parameters Example:

**Author:** Hansen, M., R. DeFries, J.R.G. Townshend, and R. Sohlberg  
**Publication Date:** (1998)  
**Collection Name:** UMD Global Land Cover Classification  
**Product Name:** {specify 1 Degree, 8 Kilometer, or 1 Kilometer}  
**Version:** 1.0  
**Publisher:** Department of Geography, University of Maryland  
**Publisher Location:** College Park, Maryland  
**Product Coverage Date:** 1981-1994

### AVHRR Land Cover

- [Overview](#)
- [Description](#)
- [Product Guide](#)
- [Data Download Guide](#)
- [File Format Guide](#)
- [Gallery](#)

### Quick Links

- [Land Cover Change](#)
- [Dr. Matthew Hansen at SDSU](#)
- [Geography Dept at UMD](#)
- [Dr. Ruth DeFries at UMD](#)
- [AVHRR at USGS](#)

**Full Example Citation:** Hansen, M., R. DeFries, J.R.G. Townshend, and R. Sohlberg (1998), UMD Global Land Cover Classification, 1 Kilometer, 1.0, Department of Geography, University of Maryland, College Park, Maryland, 1981-1994.

**Associated Peer-Reviewed Publication:** Hansen, M., R. DeFries, J.R.G. Townshend, and R. Sohlberg (2000), Global land cover classification at 1km resolution using a decision tree classifier, International Journal of Remote Sensing. 21: 1331-1365.

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### Source

Source for this data set is the Global Land Cover Facility, [www.landcover.org](http://www.landcover.org).

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Web Accessibility

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