

National Land Cover Database (NLCD) 2001 Land Cover California Subset

Tags Image Service, biota, National Geospatial Data Asset, digital spatial data, Land cover, United States, Image processing, U.S., NGDA, US, Land Use Land Cover Them, GIS, imageryBaseMapsEarthCover, U.S. Geological Survey (USGS), California

Summary

The goal of this project is to provide the Nation with complete, current, and consistent public domain information on its land use and land cover. Note: The California Department of Fish and Wildlife subsetting the original nationwide dataset to California - some portions of this metadata may still reflect the nationwide dataset.

Description

The U.S. Geological Survey (USGS), in partnership with several federal agencies, has developed and released five National Land Cover Database (NLCD) products over the past two decades: NLCD 1992, 2001, 2006, 2011, and 2016. The 2016 release saw landcover created for additional years of 2003, 2008, and 2013. These products provide spatially explicit and reliable information on the Nation's land cover and land cover change. To continue the legacy of NLCD and further establish a long-term monitoring capability for the Nation's land resources, the USGS has designed a new generation of NLCD products named NLCD 2019. The NLCD 2019 design aims to provide innovative, consistent, and robust methodologies for production of a multi-temporal land cover and land cover change database from 2001 to 2019 at 2–3-year intervals. Comprehensive research was conducted and resulted in developed strategies for NLCD 2019: continued integration between impervious surface and all landcover products with impervious surface being directly mapped as developed classes in the landcover, a streamlined compositing process for assembling and preprocessing based on Landsat imagery and geospatial ancillary datasets; a multi-source integrated training data development and decision-tree based land cover classifications; a temporally, spectrally, and spatially integrated land cover change analysis strategy; a hierarchical theme-based post-classification and integration protocol for generating land cover and change products; a continuous fields biophysical parameters modeling method; and an automated scripted operational system for the NLCD 2019 production. The performance of the developed strategies and methods were tested in twenty composite referenced areas throughout the conterminous U.S. An overall accuracy assessment from the 2016 publication give a 91% overall landcover accuracy, with the developed classes also showing a 91% accuracy in overall developed. Results from this study confirm the robustness of this comprehensive and highly automated procedure for NLCD 2019 operational mapping. Questions about the NLCD 2019 land cover product can be directed to the NLCD 2019 land cover mapping team at USGS EROS, Sioux Falls, SD (605) 594-6151 or mrlc@usgs.gov. See included spatial metadata for more details.

Credits

U.S. Geological Survey

Use limitations

None. Users are advised to read the dataset's metadata thoroughly to understand appropriate use and data limitations. Disclaimer: The State makes no claims, promises, or guarantees about the accuracy, completeness, reliability, or adequacy of these data and expressly disclaims liability for errors and omissions in these data. No warranty of any kind, implied, expressed, or statutory, including but not limited to the warranties of non-infringement of third party rights, title, merchantability, fitness for a particular purpose, and freedom from computer virus, is given with respect to these data.

Extent

There is no extent for this item.

Scale Range

Maximum (zoomed in) 1:5,000

Minimum (zoomed out) 1:150,000,000

Topics and Keywords ►

Themes or categories of the resource Biota, Environment, Imagery & Base Maps

Citation ►

Title National Land Cover Database (NLCD) 2001 Land Cover California Subset

Citation Contacts ►

Responsible party - publisher

Individual's name U.S. Geological Survey

Organization's name U.S. Geological Survey

Contact's position Publisher

Resource Details ►

Dataset languages English

Dataset character set utf8 - 8 bit UCS Transfer Format

Credits

U.S. Geological Survey

ArcGIS item properties

Extents ►

Extent

Geographic extent

Bounding rectangle

West longitude -130.2328

East longitude -63.6722

South latitude 21.7423

North latitude 52.851

Resource Points of Contact ►

Point of contact - publisher

Individual's name U.S. Geological Survey (USGS)

Organization's name U.S. Geological Survey (USGS)

Contact's position Publisher

Resource Maintenance ►

Resource maintenance

Update frequency irregular

Resource Constraints ►

Constraints

Limitations of use

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Metadata Details ►

Metadata language English

Metadata character set utf8 - 8 bit UCS Transfer Format

Scope of the data described by the metadata dataset

Last update ⇔ 2025-04-30

ArcGIS metadata properties

Metadata format ArcGIS 1.0

Standard or profile used to edit metadata ISO19115_3

Created in ArcGIS for the item 2025-04-30 09:52:32

Automatic updates

Have been performed No