

Forest Formation and Land Cover Map Series: Dominican Republic

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ABSTRACT

From Hernández, S., and Pérez, M., 2005, *Land cover map of the Dominican Republic from Landsat ETM+ imagery circa 2000: Secretaría de Estado de Medio Ambiente y Recursos Naturales de la República Dominicana, Santo Domingo, Dominican Republic.*

A forest formation and land cover map for the Dominican Republic was developed by the Department of Environment and Natural Resources through a manual interpretation of Landsat Enhanced Thematic Mapper Plus (ETM+) imagery dated around the year 2000. Woody vegetation classes in the map corresponded to those of Tolentino and Peña (1998). The woody vegetation classes included two conifer cover classes, four climatic zone classes of broadleaved forests, and two shrubland classes. These classifications were cross-walked to match the classes on other islands using surficial geology and techniques described in Helmer (2002). The forest classification scheme relates closely to that described in Areces-Mallea (1999), with modifications similar to those in Helmer, (2002).

CONTRIBUTORS

Santiago Hernández and Mariana Pérez developed the original land cover map with funding from the U.S. Agency for International Development to the Dominican Republic Department of Environment and Natural Resources. Other cooperating institutions included the U.S. Geological Survey (USGS) Center for Earth Resources Observation and Science, The Nature Conservancy, the U.S. Department of Agriculture (USDA) Forest Service International Institute of Tropical Forestry, the Center for Environmental Management of Military Lands of Colorado State University, and the USDA Forest Service Rocky Mountain Research Station. Other contributors included Eric Van Praag, Tom Albright, and Larry L. Tieszen. The National Aeronautics and Space Administration (NASA) Global Observation of Forest Cover program provided funding for the Landsat imagery.

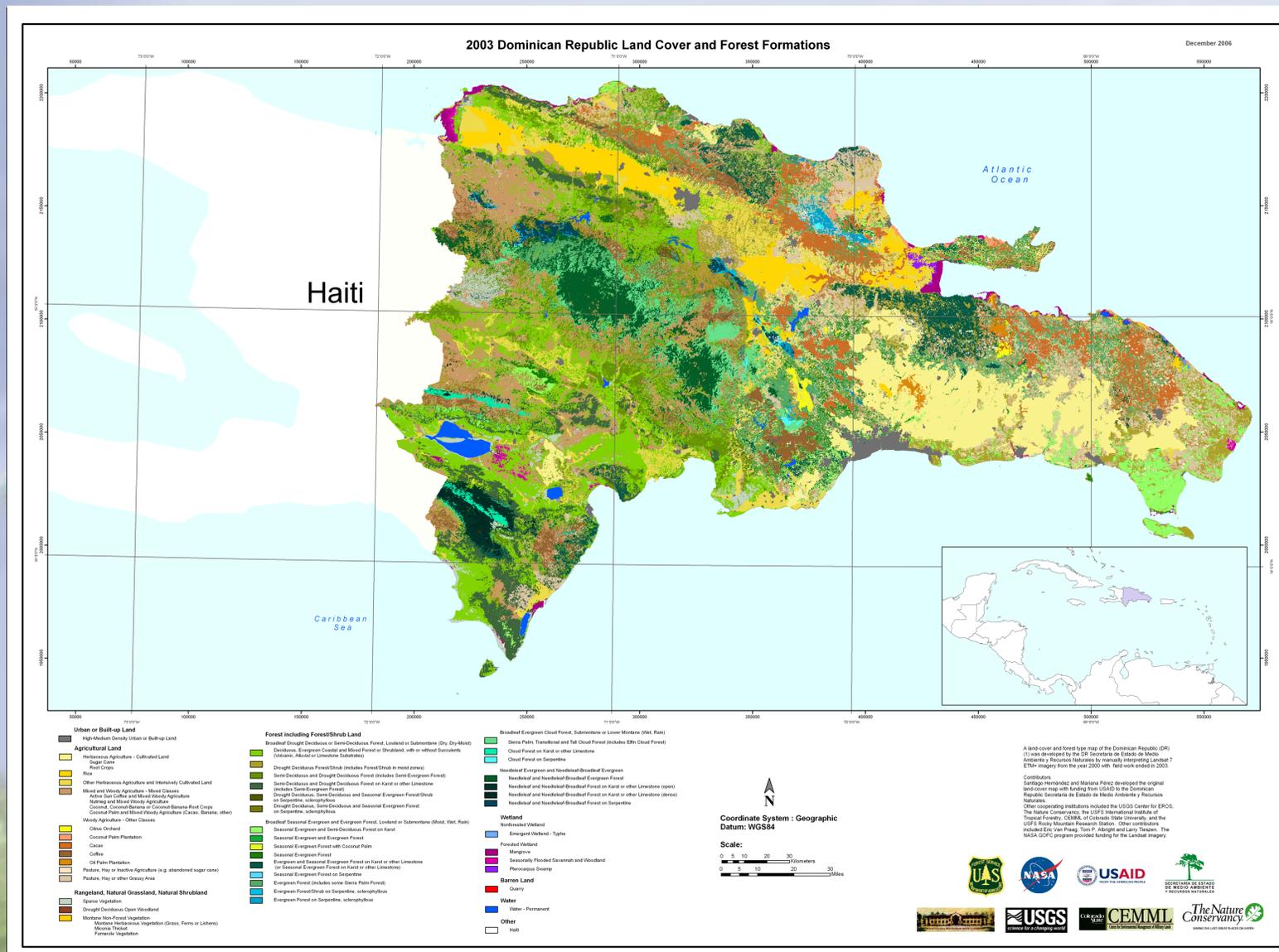
DATA AVAILABILITY

These land cover data and cartographic products will be available in June 2007 for download at the following Web sites: USGS Center for Earth Resources Observation and Science - International Programs (<http://edcintl.cr.usgs.gov>) and USDA Forest Service International Institute of Tropical Forestry (<http://tropicalforestry.net/>).

REFERENCES

- Areces-Mallea, A., Weakley, A.S., Li, X., Sayre, R.G., Parrish, J.D., Tipton, C.V., and Boucher, T., 1999, A guide to Caribbean vegetation types: classification systems and descriptions: Arlington, Va., The Nature Conservancy.
- Helmer, E.H., Ramos, O., Lopez, T.d.M., Quiñones, M., and Diaz, W., 2002, Mapping forest types and land cover of Puerto Rico, a component of the Caribbean biodiversity hotspot: *Caribbean J. Sci.*, v. 38, p. 165-183.
- Hernández, S., and Pérez, M., 2005, Land cover map of the Dominican Republic from Landsat ETM+ imagery circa 2000: Santo Domingo, Secretaría de Estado de Medio Ambiente y Recursos Naturales de la República Dominicana.
- Tolentino, L., and Peña, M., 1998, Inventario de la vegetacion y uso de la tierra en la Republica Dominicana: *Moscosa* v. 10, 179-203.

* Work performed under USGS contract 03CRCN001



Land Cover Maps produced by USDA Forest Service and The Nature Conservancy