**DATASET DESCRIPTION**

**Title of dataset** The Forest Pulse

**Abstract** The Forest Pulse is a 250-m-resolution land-cover map of the western Guyana Shield (Venezuela) based on remote sensing and traditional ecological knowledge (TEK). We first employed a hyper-temporal remotely sensed vegetation index (NDVI) to derive a land classification system. We then described the landscapes in the resulting classes using greenness and topo-hydrological information. Additionally, we obtained geo-referenced data on hunting, fishing and farming from six indigenous communities to overlay onto the landscape characterization derived from remote sensing. We identified 12 land-cover types, grouped into five main landscapes: 1) water bodies; 2) open lands/forest edges; 3) evergreen forests; 4) submontane semideciduous forests; and 5) cloud forests.

**Keywords** Amazonia; land-cover map; indigenous involvement; remote sensing; greenness; forest conservation

**Language** English

**Version** 1.1

**Production date** 06/03/2015

**Status** TEK-validated version, pending accuracy assessment

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**Financial support** The Forest Pulse was supported by the Spanish Agency for International Cooperation and Development (AECID) [project A/017033/08]

**Acknowledgments** We thank, for their invaluable cooperation in achieving the aims of this project, the Zona Educativa del Estado Amazonas (Venezuelan Ministry of Education), especially Dr. Juan Noguera (Universidad Central de Venezuela); Luis Yakame and Antonio Largo; Darío Moreno (Academic Division of the Secretary of Education of the Governorship of Estado Amazonas, currently coordinator of the Program for Communication and Research within Grupo de Trabajo Socioambiental de la Amazonía "Wataniba"); Venezuelan Ministry of Environment; Ángel R. Olivo, city councilman in the Municipality of Atures; and Comando de la Guarnición de Puerto Ayacucho. We also thank Dr. A.L. Márquez, Dr. A. Estrada and Dr. C. Márquez for their support during the expedition to Estado Amazonas

**METHODOLOGY**

**Data sources** 16-day composites of MODIS Gridded Vegetation Indices (product MOD 13)

**Temporal coverage** February 2000 to February 2009

**Legend** Based on greenness and topo-hydrological land-class characterization

**Data quality** Map validation performed by testing for significant consistency between landscape classification and uses specified by indigenous people in sites identified by these ones

**Detailed methodology** Olivero, J., Ferri, F., Acevedo, P., Lobo, J., Fa, J.E., Farfán, M.A., Romero, D., the Amazonian communities of Cascaradura, Niñal, Kurimakare, Chapazón, Solano and Guzmán Blanco, Real, R. (2016) Using indigenous knowledge to link hyper-temporal land cover mapping with land use in the Venezuelan Amazon: “The Forest Pulse”. *Revista de Biología Tropical/International Journal of Tropical Biology and Conservation* *64 (4)*.

**SPATIAL REPRESENTATION**

**Geographical location** ULX : -68.124575 LRX : -62.99315964

ULY : 6.488893 LRY : 0.266069384

**Spatial resolution** 0.002245696 dd (around 250 m)

**Map projection** Geographic (Lat/Lon)

**Spheroid** WGS84

**File size (Mb)** 24.15 (uncompressed)