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## Biogeographical regionalisation of the Neotropical region

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## Table of contents

Abstract .....	4
Introduction .....	4
General structure .....	4
History of the regionalisation of the Neotropical region .....	5
Area taxonomy .....	26
Neotropical region Sclater, 1858 .....	26
Mexican transition zone Wallace, 1876 .....	27
Sierra Madre Occidental province Goldman & Moore 1945 .....	27
Sierra Madre Oriental province Goldman & Moore 1945 .....	29
Transmexican Volcanic Belt province Morrone 2001a .....	31
Sierra Madre del Sur province Goldman & Moore 1945 .....	33
Chiapas Highlands province Smith 1941 .....	34
Antillean sub-region Wallace 1876 .....	35
Bahama province Morrone 2001a .....	36
Cuban province Udvardy 1975 .....	36
Cayman Islands province Morrone, 2001a .....	42
Jamaica province Samek 1988 .....	42
Hispaniola province Samek 1988 .....	43
Puerto Rico province Samek 1988 .....	44
Lesser Antilles province Samek 1988 .....	44
Brazilian sub-region Blyth 1871 .....	45
Mesoamerican dominion Savage 1966 .....	45
Pacific Lowlands province West 1964 .....	46
Balsas Basin province Rzedowski 1978 .....	48
Veracruzan province Smith 1941 .....	49
Yucatán Peninsula province Smith 1941 .....	51
Mosquito province Ryan 1963 .....	53
Pacific dominion Cabrera & Willink 1973 .....	53
Guatuso-Talamanca province Ryan 1963 .....	54
Puntarenas-Chiriquí province Ryan 1963 .....	54
Chocó-Darién province Ryan 1963 .....	55
Guajira province Cabrera & Willink 1973 .....	56
Venezuelan province Cabrera & Willink 1973 .....	58
Trinidad province Ringuelet 1975 .....	59
Magdalena province Müller 1973 .....	59
Sabana province Orfila 1941 .....	60
Cauca province Müller 1973 .....	61
Galápagos Islands province Mello-Leitão 1937 .....	62
Western Ecuador province Morrone 1999 .....	63
Ecuadorian province Müller 1973 .....	63
Boreal Brazilian dominion Clarke 1892, stat. nov. ....	63
Napo province Müller 1973 .....	64
Imerí province Beven et al. 1984 .....	65
Pantepui province Mayr & Phelps 1967 .....	66
Guianan Lowlands province Huber & Alarcón 1988 .....	66
Roraima province Müller 1973 .....	67
Pará province Müller 1973 .....	68
South Brazilian dominion Engler 1882, stat. nov. ....	68
Ucayali province Müller 1973 .....	69
Madeira province Müller 1973 .....	69
Rondônia province Beven et al. 1984 .....	70
Yungas province Cabrera 1971 .....	71
Chacoan sub-region Cabrera 1951 .....	72
Southeastern Amazonian dominion Morrone 2014 .....	72
Xingu-Tapajós province Rivas-Martínez & Navarro 1994 .....	73
Chacoan dominion Cabrera 1951 .....	73
Caatinga province Cabrera & Willink 1973 .....	73
Cerrado province Cabrera & Willink 1973 .....	74
Chaco province Holmberg 1898 .....	75
Pampean province Blyth 1871 .....	77
Parana dominion Morrone 1999 .....	80
Atlantic province Cabrera & Willink 1973 .....	80

Parana province Cabrera 1971 .....	81
<i>Araucaria</i> Forest province Hueck 1953, stat. nov. ....	82
South American transition zone Morrone 2004a .....	83
Paramo province Cabrera 1957 .....	83
Desert province Cabrera & Willink 1973 .....	87
Puna province Holmberg 1898 .....	87
Atacaman province O'Brien 1971 .....	88
Prepuna province Cabrera 1951 .....	89
Monte province Holmberg 1898 .....	90
Acknowledgments .....	92
References .....	92

## Abstract

A biogeographic regionalisation of the Neotropical region is proposed as a hierarchical classification of sub-regions, dominions, provinces and districts. This regionalisation is based on biogeographic analyses of terrestrial plant and animal taxa, and seeks to provide universality, objectivity and stability, such that it can be applied when describing distributional areas of particular taxa or comparing different biogeographic analyses. The Neotropical region is currently comprised of three sub-regions (Antillean, Brazilian and Chacoan), two transition zones (Mexican and South American), seven dominions (Mesoamerican, Pacific, Boreal Brazilian, Southwestern Amazonian, Southeastern Amazonian, Chacoan and Parana) and 53 provinces. For some of the latter, sub-provinces and districts are recognized. Complete synonymies and brief descriptions of the areas are provided, as well as the endemic taxa that diagnose the different provinces.

**Key words:** Antilles, biogeographical classification, Central America, Mexico, Neotropics, South America

## Introduction

The biogeographical regionalisation of the Neotropical region has had a long and complex history (Rapoport 1968; Sánchez Osés & Pérez-Hernández 1998, 2005; Cox 2001; Pérez-Hernández & Lew 2001; Morrone 2002a, 2010a), with many phytogeographical, zoogeographical, biogeographical and ecoregional schemes proposed for over 150 years for the region as a whole or for some particular countries. The existence of different and conflicting area delimitations in these schemes makes the description and comparison of distributional areas rather subjective. Additionally, there are hundreds of names available for naming areas in the Neotropics. The International Code of Area Nomenclature (herein ICAN; Ebach *et al.* 2008) provides some criteria for accommodating existing and newly named areas.

My objective is to provide a regionalisation of the Neotropical region, with explicit area definitions and a standardised nomenclature following ICAN, so that different area definitions for the same name or the same areas with different names can be avoided. This regionalisation is based on terrestrial taxa, and includes previously defined areas and their names.

## General structure

A biogeographical regionalisation is a hierarchical system that categorize geographic areas in terms of their biotas, involving the basic levels of realm, region, dominion, province and district (Ebach *et al.* 2008; Escalante 2009). The regionalisation of the Neotropical region presented herein comprises four basic hierarchical levels: sub-regions, dominions, provinces and districts; in a few cases sub-provinces are recognized. In general I followed the nomenclatural conventions set out in ICAN (Ebach *et al.* 2008, 2013), following the notion of priority for using existing names instead of new names. Sclater (1858) is adopted as the date of the starting point of biogeographical nomenclature, as it constitutes the first widely adopted world biogeographical regionalisation. In a few cases I have kept widely used names instead of older synonyms, applying a criterion analogous to the *nomen oblitum* convention of taxonomical nomenclature. In other cases, when several alternative names were competing but none of them was widely used, I selected the name that I believe would provide better stability.

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