



# MIAN



## INTEGRATED NORTH ANDEAN MAP (MIAN)

### Catalogue of geographic objects - MIAN v2016

Consulting and Technical Coordination



With special contributions from the United States National Section of the PAIGH



U.S. DEPARTMENT OF THE INTERIOR  
INTERNATIONAL TECHNICAL ASSISTANCE PROGRAM



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## Catalogue of geographic objects - MIAN v2016

### Objects

Name of theme/object		Definition
<b>Theme 1</b> <b>Administrative boundaries</b>		Theme that includes the cartographic portrayal of the shape of each country and of each administrative unit. It is information with no legal, judicial, nor administrative relevance, being approximate and valid only for the purposes of giving information and general guidance.
Country	Linear object	Approximate cartographic description of the shape of each country
Level 1 (departments, provinces, states...)	Linear object (optionally, a surface object)	Approximate cartographic description of the shape of the administrative units at the first level (if they exist)
Level 2 (boroughs, districts...)	Linear object (optionally, a surface object)	Approximate cartographic description of the shape of the administrative units at the second level (if they exist)
Level 3 (villages, townships...)	Linear object (optionally, a surface object)	Approximate cartographic description of the shape of the administrative units at the third level (if they exist)

<b>Theme 2</b> <b>Hydrography</b>		Theme that includes surface waters on the continent in liquid state, including standing water and watercourses.
River (Rivers, streams, channels, watercourses, hydrographic axis...)	Linear object	Watercourses on the surface that are portrayed at this scale as a line. It may be permanent or intermittent, natural or artificial. This includes rivers, streams, channels, ditches,

		water ducts and all the watercourses relevant to this scale.
Coast line	Linear object	Line that describes, approximately and as guidance, the boundary at the land-sea interface
Water body (Lakes, watercourses, reservoirs, swamps, marshes, flooded areas...)	Surface object	Hydrographic object on the surface that is shown at this scale as a surface area. It must have an approximate width greater than X m or an area greater than X m <sup>2</sup> . It includes rivers, channels, reservoirs, lakes, pools, swamps...
Hydrographically-shaped object (mangrove, sand bank)	Surface object	Formation related to hydrographic phenomena that it is necessary to include as a surface object so that the description of the Hydrography be complete.

<b>Theme 3</b> <b>Populated sites</b>		Theme that includes permanent human settlements that can be portrayed at this scale
Settlement (location or town as a point)	Point object	Permanent human settlement that is portrayed by a point at this scale. It includes cities, towns, urban developments, military barracks, monasteries...
Urbanized zone (surface of urban material)	Surface object	Urbanized zone. Permanent human settlement that is portrayed by a surface at this scale. It must have an area over X m <sup>2</sup>

<b>Theme 4</b> <b>Transport networks</b>		Themes that include overland communication networks
Road networks (roads, highways...)	Linear object	Transport route for wheeled traffic. Includes highways, conventional roads, earth tracks, paths...

Railways	Linear object	Transport route by rail for the movement of trains
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<b>Theme 5</b> <b>Morphology of the terrain</b>		Theme that includes the main objects that describe the shape and relief of the terrain.
Elevation contour line	Linear object	Line formed by joining points, which are all at the same altitude.
Spot height	Point object	Point with a known altitude that is relevant for describing the shape of the terrain due to its being a local maximum or minimum height or a point of inflection
Island (maritime and riverine)	Surface object	Sector of land completely surrounded by water in all directions. Includes both maritime and riverine islands

<b>Theme 6</b> <b>Miscellaneous</b>		Theme that includes any geographic object that, by having a geometry associated with it, a certain size or a certain social, cultural or economic relevance, should be included in a description at this scale.
Toponym	Point object. Geographic Name that, due to its relevance, should appear on a basic map at 1:250,000 or 500,000 scales and that has no geometry associated with it (mountain ranges, raised plateau, major geographic features, glaciers, waterfalls, airports, lighthouses, sea ports, mountain passes, major monuments, nuclear plants, major mines...)	Geographic Object of special relevance that, having no well-defined geometry associated with it at this scale, is represented by a conventional point and a name. It includes mountain ranges, raised plateau, major geographic features, glaciers, waterfalls, airports, lighthouses, seaports, mountain passes, major monuments, nuclear plants, major mines...

## Attributes

### Integrated North Andean Map

#### THEME 1 ADMINISTRATIVE BOUNDARIES

<b>Administrative boundaries</b>	<b>Line/Surface</b>	
Country (BO, CO, EC, PA, PE)	TEXT (2)	Country that it belongs to
Category (Department, State, Municipality, Province, Urban, Rural, District, Town, City)	TEXT (50)	Hierarchical classification Attribute to suppress (will be replaced by that to be detailed in each country as per each level; level 1, 2, etc.)
Category code (1, 2, 3, 4) (Department (1), State (2), District (1), City (1), Town (2), Municipality (2))	TEXT (1)	Code given in the hierarchical classification
Name	TEXT (100)	Unique, full name
Population	DOUBLE	Number of inhabitants
Unique code	TEXT (50)	Sole, unique identifier used in the country, if there is one.

#### THEME 2 HYDROGRAPHY

<b>River</b>	<b>Linear</b>	
Country (BO, CO, EC, PA, PE)	TEXT (2)	Country in which it is located
Name	TEXT (100)	Unique, specific name
Type (perennial stream, intermittent)	TEXT (25)	Perennial river: linear stream of water that continues flowing all year round.

		Intermittent river: linear stream of water that flows only during part of the year.
Class (natural, artificial)	TEXT (25)	Natural river: linear stream of water not modified by human intervention. Artificial river: linear stream of water modified by humans, completely or partly. Includes channels, drainage ditches, artificially channeled rivers...
Axis	Yes/no	Imaginary line that is used to give continuity and navigability to the hydrographic network
Isolated River	Yes/no	River that does not need to be taken into account to set up the Hydrography network
<b>Coast Line</b>	<b>Linear</b>	
Country (BO, CO, EC, PA, PE)	TEXT (2)	Country in which it is located

<b>Body of water</b>	<b>Surface</b>	
Country (BO, CO, EC, PA, PE)	TEXT (2)	Country in which it is located
Name	TEXT (100)	Unique, specific name
Type (permanent, intermittent)	TEXT (25)	Permanent body of water: water body that remains all year round. Intermittent body of water: water body that has water during only part of the year.
Classification (lake, reservoir, water course, swamp, marsh, flooded area)	TEXT (25)	Lake, natural water body, most of which remains still. Watercourse: river, channel or drainage ditch on the surface. Swamp: wetlands that receive water from a watercourse. Marsh: area with shallow water that remains static at the site and that comes from surface drainage and underground streams, with very dense aquatic or herbaceous vegetation. Flooded area: zone periodically covered by water, excluding tidewaters.

Class (natural, artificial)	TEXT (25)	Natural body of water: water body not modified by human intervention. Body of water: water body modified by humans, completely or partly. Includes canals, drainage ditches, artificially channeled rivers, reservoirs...
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Hydrographic form	Surface	
Country (BO, CO, EC, PA, PE)	TEXT (2)	Country in which it is located
Name (if it has one)	TEXT (100)	Unique, specific name
Classification (mangrove, sand bank)	TEXT (25)	A mangrove is an area near the estuary of one or more rivers at which the dry and flooded zones mix so as to be indistinguishable from each other and it is not possible to trace the geometry that the water courses follow. A sand bank is an accumulation of sand, which is normally dry, but tends to be flooded at least once a year.

### **THEME 3 POPULATED SITES**

Populated site	Point	
Country (BO, CO, EC, PA, PE)	TEXT (2)	Country in which it is located
Category (Department, State, Municipality, Province, Urban, Rural, District, Town, City)	TEXT (50)	Classification by degree of importance
Category code (1, 2, 3, 4) (Department (1), State (2), <i>District</i> (1), <i>City</i> (1), <i>Town</i> (2), Municipality (2))	TEXT (1)	Code of the classes
Name	TEXT (100)	Unique, specific name

Population	DOUBLE	Current number of inhabitants, if this is known
Unique code	TEXT (50)	Unique, specific identifier (if any exists)

<b>Urbanized zone</b>	<b>Surface</b>	
Country (BO, CO, EC, PA, PE)	TEXT (2)	Country in which it is located
Category (Department, State, Municipality, Province, Urban, Rural, District, Town, City)	TEXT (50)	Classification by degree of importance
Category code (1, 2, 3, 4) (Department (1), State (2), District (1), City (1), Town (2), Municipality (2))	TEXT (1)	Code of the classes
Name	TEXT (100)	Unique, specific name
Population	DOUBLE	Current number of inhabitants, if this is known
Unique code	TEXT (50)	Unique, specific identifier (if any exists)

#### **THEME 4 TRANSPORT**

<b>Road</b>	<b>Linear</b>	
Country (BO, CO, EC, PA, PE)	TEXT (2)	Country in which it is located
Name	TEXT (100)	Unique, specific name (if any exists)
Type (Paved, Unpaved)	TEXT (25)	Attribute to suppress

Level (Pan American highway (1), Paved (2), Unpaved (3))	TEXT (2)	The road is paved if the surface is covered by a firm, permanent material (asphalt, cement, etc.). Otherwise, it is unpaved (earth, sand, loose gravel...)
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<b>Railway</b>	<b>Linear</b>	
Country (BO, CO, EC, PA, PE)	TEXT (2)	Country in which it is located
Name	TEXT (100)	Unique, specific name, if any.

**THEME 5 MORPHOLOGY**

<b>Elevation contour line</b>	<b>Linear</b>	
Country (BO, CO, EC, PA, PE)	TEXT (2)	Country in which it is located
Altitude (in meters)	SHORT	Altitude above a reference surface

<b>Spot height</b>	<b>Point</b>	
Country (BO, CO, EC, PA, PE)	TEXT (2)	Country in which it is located
Altitude (in meters)	SHORT	Altitude above a reference surface

<b>Island</b>	<b>Surface</b>	
Country (BO, CO, EC, PA, PE)	TEXT (2)	Country which it belongs to
Name	TEXT (100)	Unique, specific name (if it has one)

**THEME 6 MISCELLANEOUS**

<b>Toponym</b>	<b>Point</b>	
Country (BO, CO, EC, PA, PE)	TEXT (2)	Country in which it is located
Name	TEXT (100)	Unique, specific name
Type	TEXT (25)	Type of object, in a first, approximate classification according to the decisions of the producing organization.