

GreaterAntillesMap:

A mineral occurrence data set for the Greater Antilles

Instructions for MapInfo and ArcGIS users

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Introduction

GreaterAntillesMap is a GIS data set for the Dominican Republic, Haiti, Puerto Rico, Jamaica, Cuba and the Virgin Islands. The *Geography* module provides files for infrastructure (cities, roads, political boundaries, etc.), digital topography (DEM), shaded relief, and bathymetry. *Geology* provides up-to-date published geologic maps and legends for each country in vector format. The *TS Units* module provides a unified tectono-stratigraphic map and legend for the entire region based on publications from government, industry and academia. The *Prospect* module locates 800 metallic mineral mines and prospects, classifies them according to 18 deposit types, and assembles current figures for past production, resources and. The Prospect module also includes locations and ownership for over 1000 non-metallic mineral occurrences. *Land Status* locates 1300 metallic and non-metallic mineral concessions (attributed with ownership and contract date) and plots the locations of 500 national parks, forest reserves, and other areas of restricted mineral entry.

Supplementary datasets, described at the end of this readme file, include Multielement Geochemical Data Sets for the Dominican Republic, Haiti, and Jamaica, a Geophysical Data Set for the Dominican Republic, and a Radiometric Data Set that compiles 1200 isotopic (U/Pb, Ar/Ar, Re/Os, etc.) ages covering all of the Greater Antilles.

GreaterAntilles is revised and updated as new discoveries are made, as new resources are announced and as production data is updated. Geologic maps are updated to reflect ongoing research. Pricing is covered on the final page of this data set description. New users should pay special attention to the “Installation” section.

Geography, Geology, TS Unit Modules

The *Geography* and the *Geology* modules of the GreaterAntillesMap data set are displayed by opening “GA_Geography” and “GA_Geology.” *Geography* includes shaded relief and bathymetry and is accompanied by digital topography (DEM), infrastructure, topographic map indices and Landsat satellite imagery. *Geology* provides, in addition, a mosaic of published geologic maps and legends (one for each country) all in vector format. *TS Units*, a unified tectonostratigraphic map for the entire region, was compiled using published geologic maps as a base but colored with tectonostratigraphic rock unit assignments (e.g. back arc basin basalt of MORB composition) rather than location-specific lithologic descriptions (e.g. Rio Verde basalt). The *Geography*, *Geology* and *TS Units* modules have broad application beyond the mining and exploration industry.

Prospect Module

The *Prospect* module, which includes the *Geography*, *Geology*, and *TS Units* modules, is displayed by opening “GA_Prospects.” Metallic mineral occurrences are plotted using shapes that correspond to deposit types, colors for each metal, and sizes that reflect gross contained metal value. Each mineral occurrence is attributed with location, source of data, deposit type, owners, partners, past production, current resources, current reserves, status (active mine, inactive mine, resource, prospect), geologic observations, recent deals, and references to the literature along with calculated fields for total size (in tons or ounces) and contained metal value in US dollars.

The *Prospects* module includes a subdirectory for non-metallic mineral occurrences, displayed by opening “GA_Non-metallics.” Selecting a specific non-metallic mineral occurrence with the info tool will call up attached information including concession name, number, owner, status, commodities, location, and location reference.

Land Status Module

The *Land status* module is displayed by opening “GA_LandStatus.” Metallic and non-metallic mineral concessions, color-coded and plotted on a shaded relief base map, are attributed with concession type, ownership, status, contract date, and expiration date. Only official government records are used to generate the concession maps. These maps provide a “snapshot” of land status as of the compilation date. For specific areas of interest, a thorough review of current concession status is always necessary.

The land status data set also shows national parks, forest reserves, Indian reservations, national monuments and other areas where mineral exploration and development is restricted or prohibited.

Subdirectories

Concessions subdirectory:

Concession maps for each country in the Greater Antilles are stored in the Concessions subdirectory. Each concession is attributed with the contract date, ownership, and the expiration date (the contract date plus the maximum number of years that a concession can be held). Expired concessions are not eliminated until they disappear from the official government data set. For up-to-date concession information, the user is referred to the Mines Department in each country.

Geography, Satellite images and 50K topo index subdirectories:

The Geography subdirectory includes borders, cities and towns, roads, major drainages, and principal topographic contours from the Digital Chart of the World. Landsat satellite images, compressed using Mr. Sid software, are assembled in the Satellite subdirectory. Indices to published 1:50,000 scale topographic maps are provided in the Topo_Index subdirectory.

Geology subdirectory:

The Geology subdirectory contains the most recent published geologic map and legend for each country. Many of these maps are difficult to obtain or out of print. All of the maps and legends have been digitized and are provided as vector files. The scale and publication date of the source maps vary: 1:250,000 for Haiti (1987), Jamaica (1977) and Puerto Rico (1973); 1:500,000 for Cuba (1988) and the Dominican Republic (2010). Each of these published maps has been modified to include more recent published geology for specific areas (e.g., Jolly et al., 2006 and Lidiak et al., 2011 for Puerto Rico).

Prospect subdirectory:

Information pertaining to individual mines and mineral occurrences is stored in a geodatabase (CBPros.gdb) for ArcGIS Pro users or an MS Access database (CBPros.accdb) for MapInfo users. Only public, non-confidential information is provided. CBPros includes the following information for each mineral occurrence: name, alternate names, location, reference for location, deposit type, district name, owners, partners, deals, production, production period, production reference, reserve, reserve reference, resource, resource reference, status (active mine, inactive mine, resource, prospect), geologic observations, overall size (in ounces or tons) and contained metal value (in US dollars).

Metallic mineral occurrences are classified according to 18 deposit types, listed in the following table. Non-metallic mineral occurrences are stored in the Prospect > Non_Metallic subdirectory.

Metallic Mineral Deposit Classification

Deposit Type	Symbol
Epithermal veins and stockworks (Au, Ag, Cu, Pb, Zn)	1
Epithermal disseminated (Au, Ag, Cu, Zn)	13
Epithermal veins and stockworks of Hg and Sb	8
Volcanogenic massive sulfide (VMS) deposits	2
Sediment-hosted (Sedex) deposits	14
Volcanogenic (Seafloor) manganese deposits	9
Sediment-hosted (U, Th, V) deposits	27
Banded iron formation (Au, Fe, Mn) deposits	21
Porphyry (Cu, Mo, Au, Ag) deposits	5
Skarn (Au, Ag, Cu, Pb, Zn) deposits	3
Iron skarn (Fe) deposits	24
Carbonate replacement (Au, Ag, Cu, Pb, Zn) deposits	22
Iron replacement (Fe) deposits	23
Greisen (Sn, W) deposits	17
IOCG (Iron-oxide copper gold) deposits (Au, Ag, Cu, Mo)	16
IOCG (U, REE, Fe) deposits	25
Alkaline Rocks and Carbonatites (U, Th, V)	18
Alkaline Rocks and Carbonatites (Sc, REE)	26
Orogenic (shear-hosted, mesothermal) deposits (Au, Ag)	4
Magmatic segregation (Cr, Pt, Pd) deposits	11
Lateritic (Ni, Co) deposits	6
Bauxite (Al, REE, Sc) deposits	12
Alluvial (Au, Ag, Pt, Pd) deposits	7
Alluvial (U, Th, REE, Sc) deposits	28
Alluvial (Fe, Sn, W) deposits	29
unassigned	99

Parks subdirectory:

The Parks subdirectory contains national parks, forest reserves, and other areas where mineral development is prohibited or restricted for each of the six countries of the Greater Antilles.

Survey Indices subdirectory:

The files in this subdirectory show the location of stream sediment surveys and geophysical surveys conducted by companies, governments and international aid organizations. Stream sediment survey indices record the number of samples collected, area covered, sample density, list of elements run, and the original source of the data. Geophysical survey indices show the type of survey (magnetic and/or radiometric), area covered, and the source of the image or data.

Shaded Relief and Bathymetry subdirectories:

Shaded relief maps for the Greater Antilles are provided in the Shaded Relief subdirectory. Ninety-meter (3 arc-second) resolution data used to create shaded relief maps for each country comes from version 2 (2005) of the Shuttle Radar Topography Mission (SRTM) (<http://seamless.usgs.gov>).

Regional bathymetry (as DEM grd files) was downloaded from the Marine Geoscience Data System: Global Multi-resolution Topographic Data portal (MGDS: GMRT) at <http://www.marine-geo.org/portals/gmrt/>. The bathymetric map is created from (shipboard) sonar supplemented, between tracks, by gravity and satellite altimetry data using a process described by Ryan et al., 2009:

<http://onlinelibrary.wiley.com/doi/10.1029/2008GC002332/full>. MGDS: GMRT data was re-gridded to produce maps at an approximate resolution of 200m (up to 240m depending on location). DEM grd files are also provided.

TS Units subdirectory:

This subdirectory contains files used to create a tectonostratigraphic (TS) map. The TS map uses the published geologic maps from the Geology subdirectory as a base. Then, based on government, industry and academic publications, geologic map polygons are assigned additional attributes and new colors according to their tectonostratigraphic setting. For a basalt, for example, in addition to age and formation name (e.g., Tertiary Coyol basalt), the TS_PGONS file includes attributes for tectonic setting (e.g., MORB, plateau, volcanic arc, or back-arc basin). All of the countries use the same tectonostratigraphic legend resulting in a metallogenic map that spans all of the Greater Antilles and is directly applicable to mineral exploration.

Titles and legends subdirectory:

Title blocks, legends, grids, labels, and scale bars are stored here.

Plots subdirectory:

The Plots subdirectory contains high resolution images for the metallogenic map and the land status map of the Greater Antilles.

UTM subdirectory:

A UTM index is provided for all of the Greater Antilles along with grids for each UTM zone. Grids are provided for the following projections: 1) Latitude/Longitude (Equidistant Cylindrical) projection using the WGS 1984 datum, 2) Lambert Conformal Conic projection (origin latitude 39 degrees north, origin longitude 96 degrees west, standard parallels 33 and 45 degrees north) with the NAD 1927 datum, and 3) MapInfo's Latitude Longitude (Equidistant Cylindrical) projection using no datum.

Ancillary Files subdirectory:

The Ancillary Files subdirectory contains files that modify or supplement the user's GIS software. For ArcGIS Pro users, the subdirectory Default Project Databases contains the home folders for each aprx in the data set. For MapInfo users, this subdirectory includes picklists, "MapInfoW.fnt" with special fonts and the file "add_to_MapInfo_prj_file.txt" with supplemental projections. These files are described in a following section on Installation.

A file called "deposit_size_calculations.xlsx" lists the formulas used in calculating deposit size and gross contained metal value. For instance:

$$\text{Au and Ag deposit size} = \text{past production in ounces} + (\text{resource in metric tonnes} * \text{resource grade in ppm} * 1/31.1034768) + (\text{reserve in metric tonnes} * \text{reserve grade in ppm} * 1/31.1034768)$$

$$\text{Base metal, Aluminum, Nickel, Cobalt and Chromium deposit size} = \text{past production in tons} + (\text{resource in tonnes} * 2204.623 / 2000 * \text{resource grade in percent} / 100) + (\text{reserve in tonnes} * 2204.623 / 2000 * \text{reserve grade in percent} / 100)$$

$$\text{Deposit value} = \text{deposit size (in ounces for precious metals, in tons for base metals, aluminum, nickel and cobalt)} * \text{metal price.}$$
 Polymetallic deposit values represent the sum of each of the contained metals.

ArcGIS Pro Installation

Install ArcGIS Pro on your computer. If this is an update, backup your previous version before erasing the old CBMap directory. Copy your new data set to the root directory of your hard drive (C:\CBMap).

ESRI Geodatabase management

All mineral occurrence information is stored in CB_Pro.s.gdb, a geodatabase located in the Prospects subdirectory. Additions or changes to mineral occurrence information are made directly to the Prospects table in CB_Pro.s.gdb.

Most users will not need to make changes to the information that is stored in CB_Pro.s.gdb. However, if changes are made to production, reserves or resources, then deposit size and value fields should also be updated. These updates are made by running the Python script "UpdateProspects.pyt." The following instructions explain how to add "UpdateProspects.pyt" to Toolbox.

- Copy the file "UpdateProspects.pyt" from C:\CBMap\Ancillary_Files\Python into the "My Toolboxes" folder (ArcMap) or "Custom Transformations" folder (ArcGISPro). The path to this folder is: C:\Users\[your username]\AppData\Roaming\ESRI\ArcGISPro or Desktop10.8
- Start ArcMap or ArcGIS Pro, and click on the Toolbox button
- In the Toolbox window, right-click in open space below the list of toolboxes, and select "Add Toolbox"
- Navigate to the "Toolboxes" directory, select UpdateProspects.pyt, click Open.
- Select UpdateDepositSizeandValue > right click in the open space underneath > save settings > to default
- Note that the UpdateProspects.pyt file only needs to be installed only once, even if you have more than one data set (e.g., CBMap and EMap) installed.

Now that "UpdateProspects.pyt" is installed, follow these instructions to update deposit size and value fields in CBPros.gdb:

- Open any ArcMap mxd or ArcGISPro aprx file.
- In the Toolbox window, if the UpdateDepositSizeandValue toolbox is not present, right click on open space and load settings > from default.
- In the Toolbox window, double-click the UpdateDepositSizeAndValue toolbox. A list of update scripts will be displayed.
- Double-click the script appropriate for the database table you have installed (e.g. if you have installed CBMap, double-click on CBProsUpdate). A window will appear.
- Click OK to begin running the script. Calculations may take some time ... a couple of minutes for a thousand prospect records is typical. For more records, a proportionately longer time period is needed.
- Save the aprx or the mxd.

Source File Connections

If the GreaterAntillesMap data set is copied to a location other than the root directory, some project files may open with broken links. Deposit types appear as event layers; each event layer has a distinct definition query. To repair a broken link: select (click on) the “list by source” icon. Right click on the file that is not opening properly, select properties > source > “set data source,” and browse to the source location, for example: C:\CBMap\Prospect\CB_Pros.gdb.

MapInfo Installation

Start by checking that Microsoft Access and MapInfo Pro are installed on your computer. If this is an update, backup your previous version before erasing the old data set. Copy the new GreaterAntillesMap data set to the root directory (C:\) of your hard drive. Rename the folder CBMap-MI (C:\CBMap-MI).

Fonts

GreaterAntillesMap map uses several customized fonts that are not delivered with standard MapInfo software. Follow these steps to replace your “MapInfo 3.0 Compatible font” with the customized version provided in the Ancillary_Files subdirectory.

- Exit MapInfo if it is running.
- Be sure that you are displaying hidden files and folders.
 - On a machine that is running Windows 11, open Windows Explorer. Select the “View” tab. Then, under “Show” select the option for “hidden items.”
- Locate the file MAPINFOW.FNT on your computer.
 - On a machine that is running Windows 11, it is found in:
C:\Users\YOURUSERNAME\AppData\Roaming\MapInfo\MapInfo\Professional\2300
(for MapInfo Pro version 23)
- Rename MAPINFOW.FNT; call it MAPINFOW_FNT.OLD
- Copy "MAPINFOW.FNT" from the Ancillary_Files subdirectory into the folder where "MAPINFOW_FNT.OLD" is located.

Datums

GreaterAntillesMap map uses several local datums that are not delivered with standard MapInfo software. Although the data set will continue to function without making changes, it is preferable to add the custom datums provided with GreaterAntillesMap to the MapInfo projection file.

To do so, use any text editor to open “MapInfow.prj” from: C:\Program Files\MapInfo\Professional. This file contains all of the projections that ship with your MapInfo software. From the Ancillary_Files subdirectory, copy the text contained in “add_to_mapinfow_prj_file.txt” and paste it into MapInfow.prj (at the

end of the file will work just fine). MapInfo.prj will now provide all local datums called by GreaterAntillesMap.

Picklists

GreaterAntillesMap map uses MapInfo Discover picklists to assign colors to tectono-stratigraphic units, parks and concessions. Although neither Discover nor the picklists are required to run GreaterAntillesMap, users who want to edit the picklists (to change colors or add categories) will need to copy the .xml files from the Ancillary_files subdirectory and paste them to the following subdirectory:
C:\Users\username\AppData\Roaming\Encom\Discover\Picklists

Microsoft Access Database

Mineral occurrence information for MapInfo users is stored in a Microsoft Access database, CB_Proc.accdb, located in the Prospect subdirectory. Prospects, a table in the Access database, compiles information for each mineral occurrence including: location, deposit type, owners, partners, past production, current resources, current reserves, published sources for past production, resource and reserve figures, status (active mine, inactive mine, prospect), salient drill results, geologic observations, ownership, terms of recent sales and joint ventures, and references to the literature. Calculated fields show the total precious metal content in ounces, base metal content in tons, and total contained metal value in US dollars.

New mineral occurrences can be added and changes can be made to existing mineral occurrence information by using MSAccess to modify GA_Proc.accdb. GA_Proc.accdb also contains a series of tables linked to queries that sort records according to deposit type (e.g., porphyry copper, epithermal gold, etc.)

A form in CB_Proc.accdb, "Update Deposit Size and Value" should be used to update gross contained metal values whenever changes are made to production, resources or reserves. This form can also be used to change the metal prices used in the calculation of gross contained metal value.

When adding records to the MSAccess database (CB_Proc.accdb), any nulls (empty fields) should be replaced with zeros (0's) in the entries for production, resource and grade since the calculation of deposit size and value draws numeric values from those fields.

Open Database Connectivity - ODBC Issues

MapInfo connects to the Prospects database (CB_Proc.accdb) via a dsn file (CBPros.dsn) which resides in the Prospect subdirectory. All changes made to the database in MapInfo automatically flow through to the Access database when the MapInfo table CBPros.tab is saved. (MapInfo may ask you to browse to the

location of the MSAccess database.) Once changes have been saved to the MSAccess database, MapInfo will give you the option to “refresh” the linked MapInfo table. Answer “yes.” If inconsistencies arise between the data in the Access database and the data in the MapInfo tables, MapInfo will issue a warning message that prompts the user to resolve the conflict.

It is best to refresh the linked MapInfo tables, including CB_Prospects.tab, whenever changes are made to the mineral occurrence information whether from within MapInfo or from within Microsoft Access. After refreshing the MapInfo linked tables, close any open DBMS connections using the “File > Close > Close DBMS button.

MapInfo cannot read MSAccess queries. For this reason, deposit type selections are saved not only as queries in the MSAccess database but also as linked MapInfo tables in the Prospects subdirectory.

You are now ready to run GreaterAntillesMap. Open the prospects data set and metallogenic map by opening GA_Prospects. Open the land status data set and concession map by opening GA_LandStatus. You can also create your own workspaces (MapInfo) or project files (ArcGIS).

Ordering information, copyright and disclaimer

The GreaterAntillesMap GIS data set including the *Geography, Geology, TS Units, Prospect* and *Land Status* modules (in MapInfo or in ArcGIS format or both) is available through Recursos del Caribe, S.A. To order the data set or for any questions, write to Carl Nelson at: carlericnelson@gmail.com.

Information on pricing is provided below. Updates are free for a year and at half price for four additional years. Prospective clients are invited to “test drive” the data sets via a screen sharing session before making a purchase. Examples of maps generated using the data set are displayed on the web site: www.CBMap.net.

GreaterAntillesMap is the property of Carl E. Nelson and Recursos del Caribe, S.A. It is intended for the sole use of the purchaser. The data set cannot be copied, sold, transferred, or distributed without express written permission from Carl E Nelson.

Reasonable efforts are made to ensure that the information contained in the GreaterAntillesMap data set is accurate and, with the exception of concessions, is updated regularly. Carl Nelson and Recursos del Caribe, S.A. do not warrant the accuracy of information in the GreaterAntillesMap data set.

Pricing

GreaterAntillesMap: a GIS data set for the Dominican Republic, Cuba, Haiti, Jamaica, Puerto Rico and the Virgin Islands. Available as a package in:

either MapInfo or ArcGIS format for:	US \$30,000
both ArcGIS and MapInfo format for:	US \$37,500

GreaterAntillesMap is also available in modules as follows:

<i>Geography</i> (infrastructure, DEM, and shaded relief):	\$ 5,000
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<i>Geology</i> (<i>Geography</i> plus vector geology for all five islands):	\$ 10,000
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<i>TS Units</i> (<i>Geography</i> and <i>Geology</i> plus a regional tectono-stratigraphic interpretation):	\$20,000
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<i>Prospects</i> (<i>TS Units</i> plus metallic mines and prospects):	\$30,000
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<i>Land status</i> (<i>Geography</i> plus metallic mineral concessions and reserve areas, national parks, forest reserves and other protected areas):	\$10,000
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<i>Plots</i> (a high-resolution tiff image of the metallogenic map):	\$ 5,000
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A data set for an individual country includes <i>Geography</i> , <i>Geology</i> , <i>TS Units</i> , <i>Prospects</i> , and <i>Land status</i> for:	\$10,000
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Descriptions of available Multielement Geochemical Data Sets, Geophysical Data Sets, and a Radiometric Data Set for the Greater Antilles appear, along with pricing, on the following pages.

Dominican Republic Multielement Geochemical Data Set

Recursos del Caribe, S.A. (www.cbmap.net)

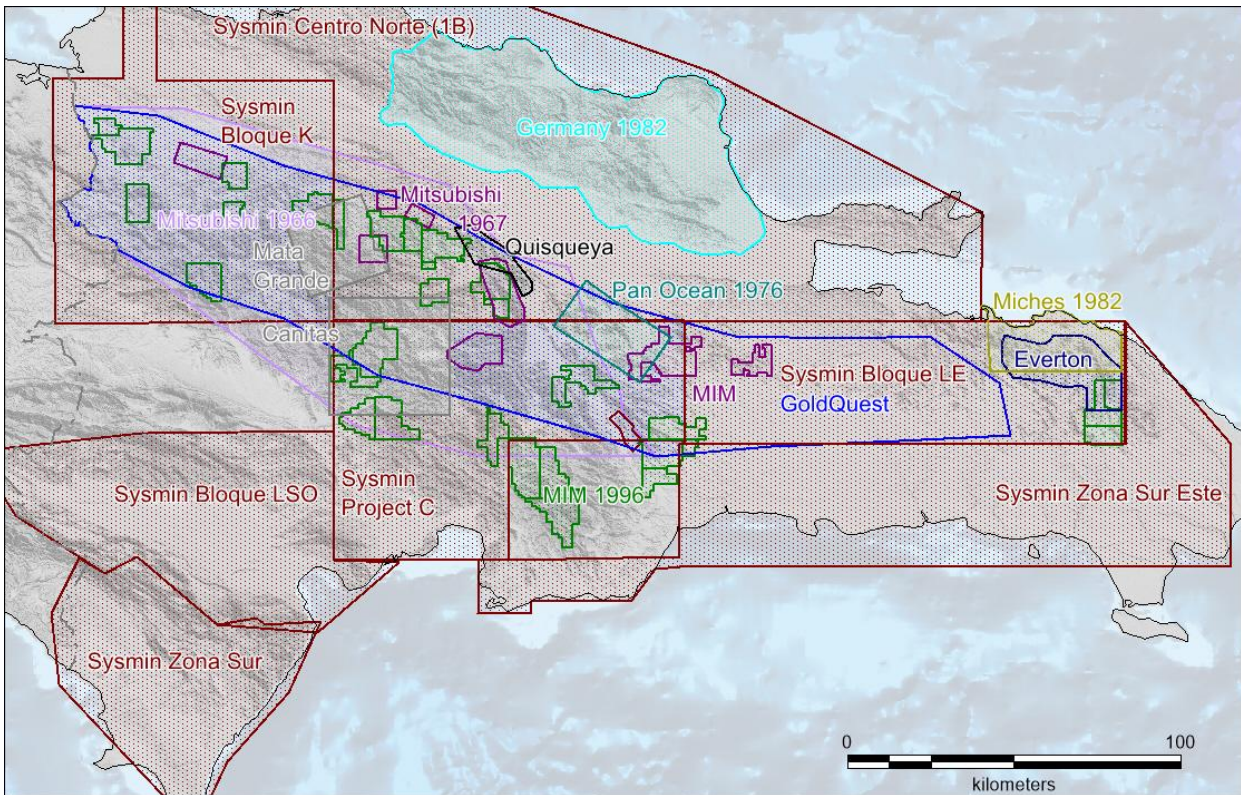
Carl E. Nelson (carlericnelson@gmail.com)

Recursos del Caribe, S.A. offers multielement geochemical data for the Dominican Republic in GIS format (MapInfo or ArcGIS). The database contains 25,195 stream sediment samples along with supporting documentation including pdf copies of original reports, sample location maps and analytical data. A total of 8466 samples covering the entire country are provided in vector format.

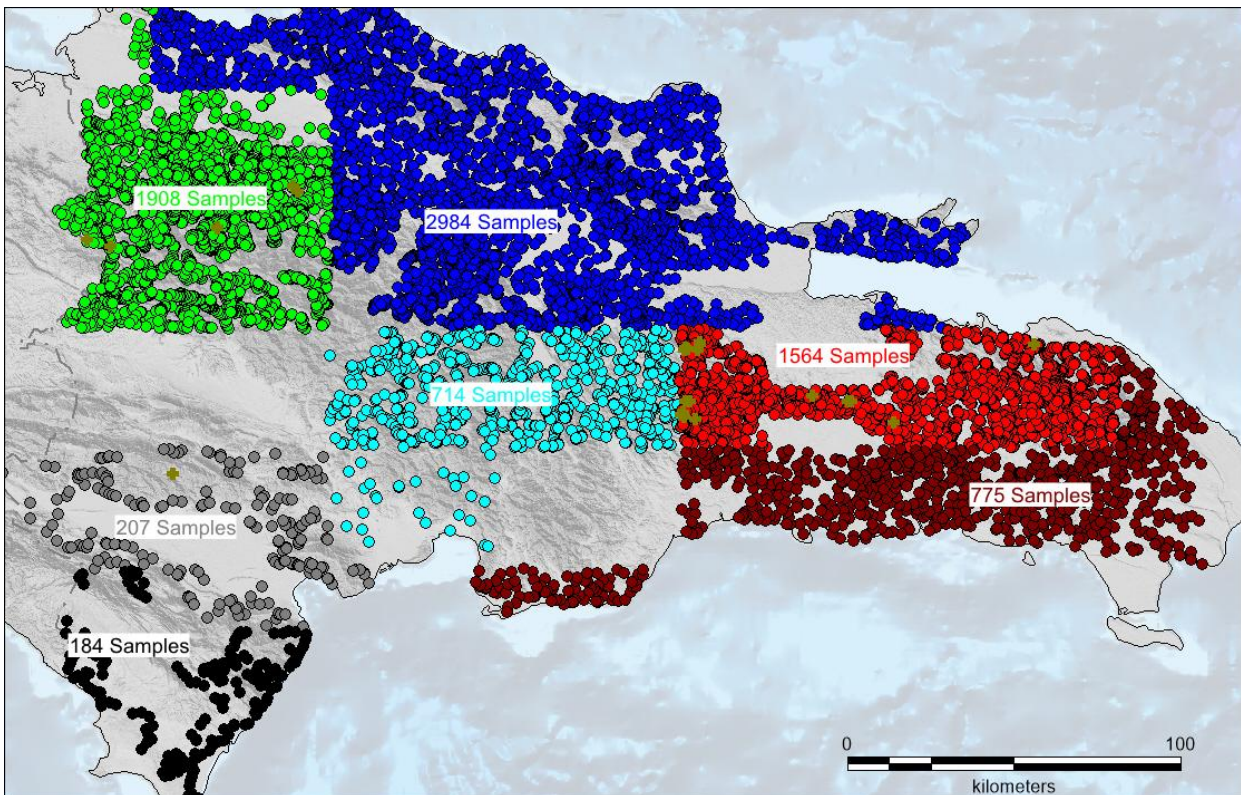
Stream sediment surveys in the Dominican Republic began in the 1960's with a multi-year program focused on base metals, especially copper. Mitsubishi Metal Mining Agency covered much of the western cordillera and later followed up with detailed surveys over the principal anomalous areas.

Beginning in the 1980's, stream sediment surveys focused increasingly on precious metals. Examples include programs carried out by Rosario Dominicana in the Pueblo Viejo District, by the Japan International Cooperation Agency (JICA) in the western Cordillera (Las Canitas), by the Direccion General de Minería with support from the Bundesanstalt für Geowissenschaften und Rohstoffe and, during the 1990's, by Mount Isa Mines in selected areas across the entire country. The largest and most comprehensive geochemical survey was carried out by the SYSMIN program (2000-2010) under the sponsorship of the Commission of the European Union. This program generated 40-element analytical data for 8,466 samples covering the entire country. The SYSMIN data is provided as vector files (in ArcGIS or in MapInfo format). The data is also available from the Servicio Geológico Nacional (www.sgn.gob.do).

The area covered by each stream sediment survey included in the database is shown in map form on the following page. A summary table lists, for each survey, the number of samples collected, the elements analyzed and the laboratory where the analyses were performed. Similar multielement geochemical databases are available for other countries including Mexico, Nicaragua, Panama, Ecuador and Colombia at (<http://www.cbmap.net/wp-content/uploads/caribbean-stream-sediment-surveys-summary.pdf>).



Dominican Republic stream sediment sample coverage



Dominican Republic stream sediment sample locations

Stream Sediment Surveys of the Dominican Republic

Program	Location	Area (sq km)	Number of ss samples	Sample density	Elements Analyzed	Lab
Mitsubishi Metal Mining Agency (1960's)	Western Cordillera	7,700	6152	0.8	total heavy metals, Cu	Falcondo ?
Mitsubishi (1960's)	Donaja	170	951	5.6	total heavy	Falcondo ?
	Rio Blanco	170	1128	6.7	metals, Cu	Falcondo ?
	Jayaco	196	1954	10		Falcondo ?
	Neita	145	805	5.5		Falcondo ?
	Baiguaque	60	916	15.3		Falcondo ?
	Palero	36	451	12.5		Falcondo ?
	Mata de Jobo	90	567	6.3		Falcondo ?
Eberle (1982)	Cordillera Septentrional	4500			Cu, Pb, Zn, Ni Co, Au, Ag, As	DMGH
Eberle and Muff -1982	Cordillera Septentrional Oriente	20	328	16.4	Cu, Pb, Zn, Ni Co, Ag, Mo, Mn, As	DMGH
Hirdes (1982)	Pedro Garcia	50	980	20	Cu, Pb, Zn, Ni, Co Ag, Mo, Mn, As	DMGH
Rosario Dominicana -1984	La Cuaba Reserve	40	529	13.2	Au	DMGH
Las Canitas (1984)	Western Cordillera	1953	1968	1	Au, Ag, Cu, Pb, Zn, As	Japan
M.I.M. Ltd. Mount Isa Mines (1997)	Cordillera Central	13,160			BLEG Au plus trace elements	American Assay
SYSMIN Pilot Program	Cordillera Southwestern		130		Au, Ag, As,	Activation
Bloque LSO	DR Eastern	4,841	207	0.04	Hg, Sb	Laboratories
Bloque LE	Cordillera Western	5005	1564	0.31	Cu, Pb, Zn, Mo	
Bloque K	Cordillera Central	6542	1908	0.29	plus 40 major	
Project C	Cordillera	5858	714	0.12	and minor	

Project 1B	Northern DR	16,631	2984	0.18	elements	
Zona Sur	Southern DR	3598	185	0.05	using ICP-AES	
Zone Sur Este	Southeastern DR	7600	775	0.10	and INAA	
total			25196		in vector format:	8,467

Pricing for Stream Sediment Surveys of the Dominican Republic

Multielement geochemical data is provided for 25,196 stream sediment samples. The data set includes original reports (as pdf files), sample location maps (as georeferenced tiff images) and analytical data (as appendices). Data for a total of 8,467 samples is provided in digital format (as vector files).

Cost of the database is US\$26,000.

Prospective clients are invited to “test drive” the data sets via a screen sharing session before making a purchase.

For information on multielement geochemical surveys for other countries go to: <http://www.cbmap.net/wp-content/uploads/caribbean-stream-sediment-surveys-summary.pdf>

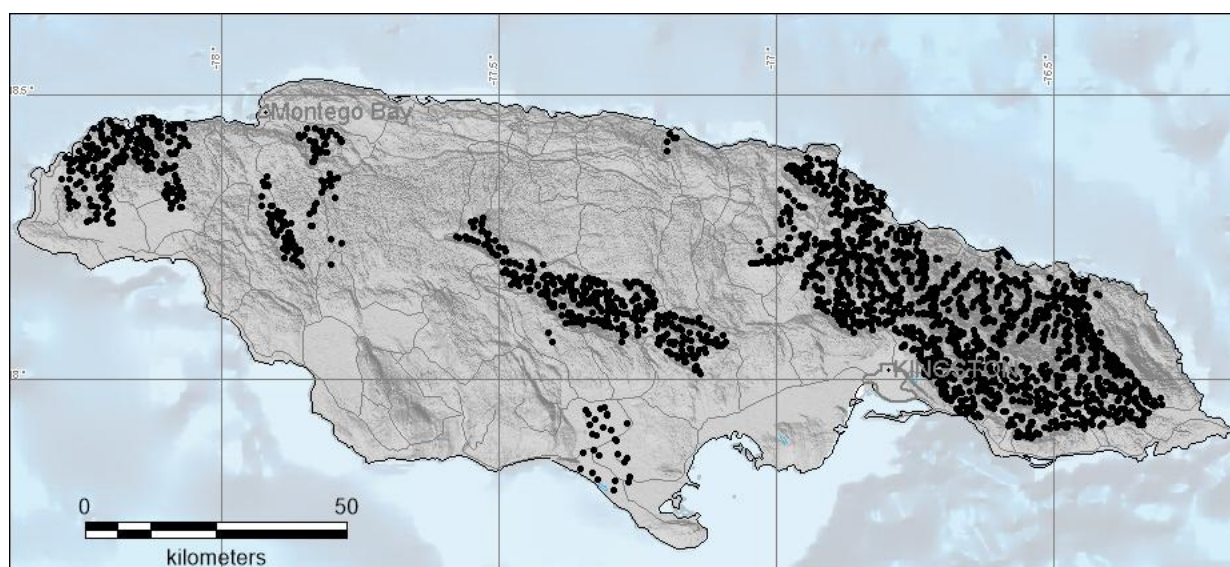
Jamaica multielement geochemical GIS data set

Recursos del Caribe, S.A.

www.cbmap.net

email: carlericnelson@gmail.com

Multielement geochemical data for a total of 2397 stream sediment samples have been compiled (in Mapinfo or ArcGIS format) for Jamaica. The data set includes analytical results for 30 elements including Au, Ag, Cu, Pb, Zn, As, Ni, Cr, Co, Mn, Mo, Cd, Sb, Hg, Fe, Te, Ba, W, La, Sc, Ta, Cs, Eu, Hg, Rb, Se, Tb, Th, Yb, U. Sample coverage is shown on the figure below.



Source of Data:

Multielement geochemical data (30 elements) is provided for 2137 stream sediment samples collected during 1986-1987 as part of a metallic mineral survey conducted by the Canadian International Development Agency (CIDA) and the Jamaica Department of Mines and Energy, Geological Survey Division. The survey covered the Cretaceous inliers and the Wagwater Trough at a density of roughly 1 sample per km² and identified 17 “priority 1” areas of anomalous gold concentration. References include:

- CIDA, 1988a, Canadian International Development Agency Project No: 505/0012280 Jamaica Metallic Mineral Survey – Phase I. Geochemical Survey, Report, Bondar-Clegg, Ottawa, Canada.

- CIDA, 1988b, Canadian International Development Agency Project No: 504/12713-142061 Jamaica Metallic Mineral Survey – Phase I. Geochemical Survey, Appendix 1, Priority 1 & 2 Anomaly Descriptions. Bondar-Clegg, Ottawa, Canada.
- CIDA, 1993, Canadian International Development Agency Project Project No: 504/12713-142061 Jamaica Metallic Mineral Survey – Phase II. Digital open file 23-Black Sands Study, Le Groupe Miniere SIDAM(1992) Inc., Montreal, Canada
- Garrett, R.G. and Geddes, A.J.S., 1991, Studies of regional drainage geochemistry in Jamaica. Transactions of the Institution of Mining and Metallurgy, London, UK (Section B: Applied Earth Sciences), volume 100, p. 88-97.

Sampling and Analytical Procedure:

Stream sediment samples for the CIDA survey were collected at a density of one sample per km², dried and screened to minus 150 mesh (< 105 micro meters) in Kingston at the Geological Survey Division. Analyses for 32 major and minor elements were performed by Bondar-Clegg's Ottawa laboratory using instrumental neutron activation (INA) analysis for total Co, total Fe, Ba, Rb, Cs, As, Se, Sb, Au, Ir, Cr, Ta, W, U, Th, Sc, La, Eu, Tb, Yb and Hf. An acid leach followed by atomic absorption spectrophotometry generated analyses for Cu, Pb, Zn, Ni, Co, Fe, Mn, Mo, Ag, Cd and Te. Se was done by hydride generation; Sn by X-ray fluorescence. Pt and Pd were generated by fire assay preparation and analysis by direct-coupled plasma spectrophotometry. Heavy Mineral separates at a density of 1 sample per 2.6 km² and with a specific gravity greater than 2.96 were screened to <420 micro meters for analysis.

Jamaica Multielement Geochemical GIS Data set:

Multielement geochemical data for a total of 2397 stream sediment samples are provided either as a MapInfo table (.tab) or ArcGIS shape file (.shp). Values reported as less than detection limit have been set equal to one half the detection limit. An entry of “-999” means that no analysis was performed for that element.

A drainage map and a shaded relief base map are included to aid with interpretation and application of the data set to exploration. Prospective clients are invited to “test drive” the data sets via a screen sharing session before making a purchase.

Pricing:

Jamaica Multielement GIS data set, in ArcGIS or MapInfo format: US \$5,000

Haiti Multielement Geochemical Database

Recursos del Caribe, S.A.

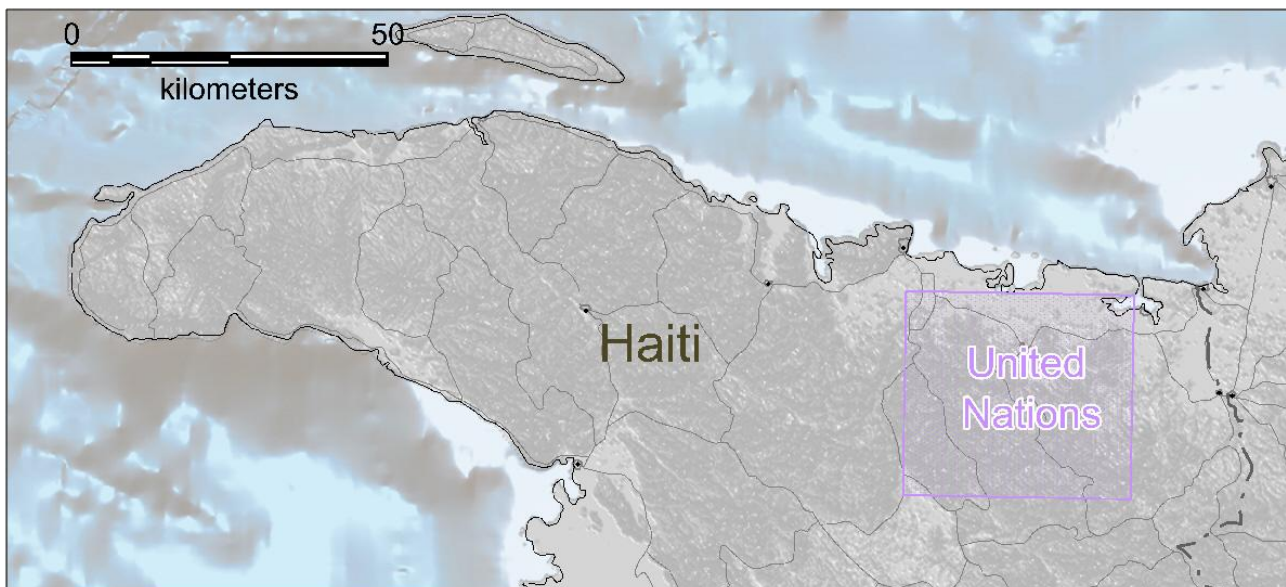
www.cbmap.net

Carl E. Nelson, president

carlericnelson@gmail.com

Recursos del Caribe, S.A. (RdC) offers geochemical datasets in GIS format (MapInfo or ArcGIS). The dataset for Haiti contains copper values (only) for 1085 stream sediment samples collected by the United Nations (UN) in the early 1970s. RdC has captured the data in vector format. The area covered by the UN survey is shown on the map below. It covers a total of (1052 km²) of the Cordillera Central of Hispaniola near the border with the Dominican Republic. Geochemical databases are also available for Mexico, Nicaragua, Panama, Ecuador, and Colombia: <http://www.cbmap.net/wp-content/uploads/caribbean-stream-sediment-surveys-summary.pdf>.

Cost for the Haiti geochemical database is US\$5000.



Area of stream sediment sample coverage in northern Haiti, shown in lavender

Dominican Republic Geophysical Dataset

Recursos del Caribe, S.A.

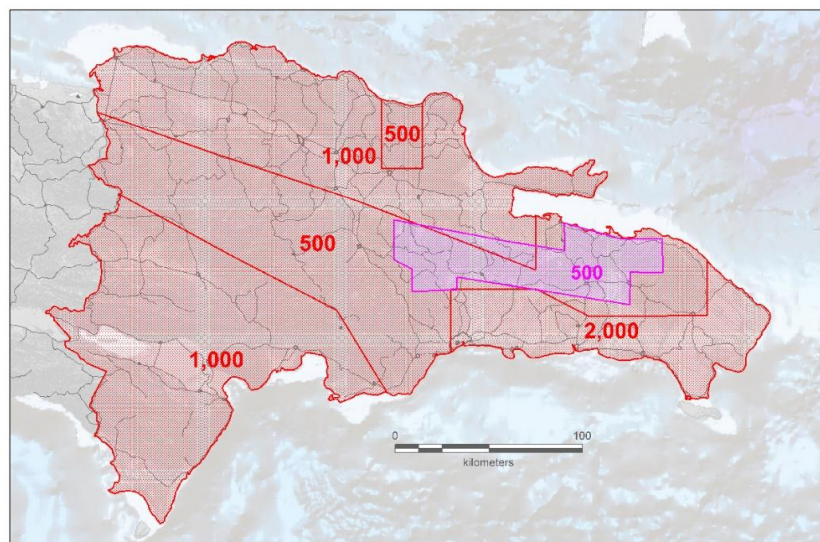
www.cbmap.net

Carl E. Nelson, president

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Recursos del Caribe, S.A. (RdC) offers a geophysical dataset consisting of aeromagnetic and radiometric data covering the entire Dominican Republic. The dataset contains both raw data and grid files for a total of 75,842 line-kilometers. The survey was flown by a fixed-wing aircraft flying at an elevation of 100 to 140 meters. Line spacing was 500 meters over the central cordillera and 1000 or 2000 meters over the rest of the country. Areas covered and the line spacing for each area are shown (in red) on the index map below. An aeromagnetic survey flown by BHP is shown (in lavender) but is not included in the RdC dataset.

The original fixed-wing surveys were flown in 1996, part of the SYSMIN program sponsored by the European Union in cooperation with the SGN (Servicio Geologico Nacional) of the Dominican Republic. Condor Resources reprocessed the raw data for RdC in 2022 generating grid files for reduced-to-pole (RTP), analytic signal, and first and second vertical derivative along with filters including automatic gain control, tilt, and upward continuation. The reprocessed geophysical dataset can be used on a stand-alone basis or “plugged into” RdC’s GreaterAntillesMap dataset for mines and mineral occurrences and land status (www.cbmap.net). The cost for RdC’s Dominican Republic dataset, in ArcGIS or MapInfo format, is US\$15,700.



Geophysical Surveys of Jamaica

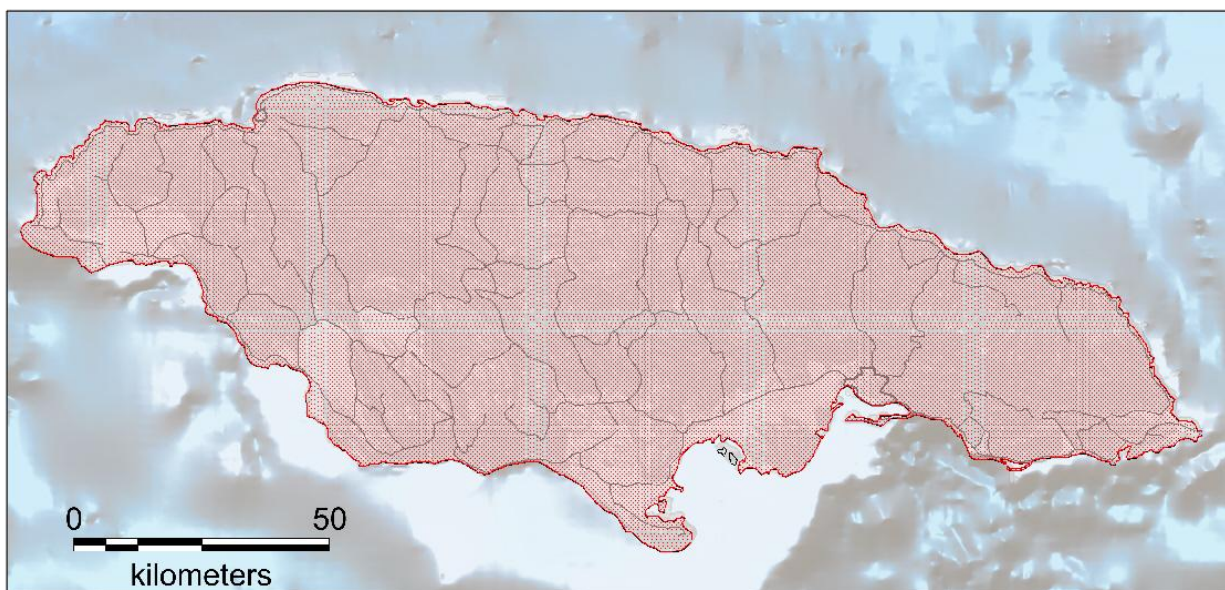
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Recursos del Caribe, S.A.
2360 23rd Street
Boulder, Colorado 80304
(303) 939 - 9517

Canadian International Development Agency Jamaica (1992)

Location	Area km2	Survey Type
Jamaica	10,990	magnetic radiometric

Survey procedure: A fixed wing aircraft was used.

Survey results: Survey results, in paper form, are available through the Ministry of Production, Mining and Commerce in Jamaica. Recursos del Caribe is looking for the original data in grid file format, so far without success.



Greater Antilles Radiometric GIS Data Set

Recursos del Caribe, S.A.

www.cbmap.net

Carl E. Nelson, president

email: carlericnelson@gmail.com

The Radiometric GIS Data Set compiles over 1200 isotopic ages (e.g., U/Pb, Ar/Ar, Re/Os) along with sample number, sample location, sample description, analytical method, mineral dated, analytical error, and reference publication (data source). Two additional fields record the original and the current interpretation for each radiometric date, e.g., age of intrusion/crystallization, inherited age, age of volcanism/crystallization, age of metamorphism, age of exhumation, age of hydrothermal alteration, and age of sedimentation. Cost is US\$10,000.

