

Panama Multielement Geochemical GIS Database

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Recursos del Caribe, S.A.

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Carl E. Nelson, president email:

carlericnelson@gmail.com

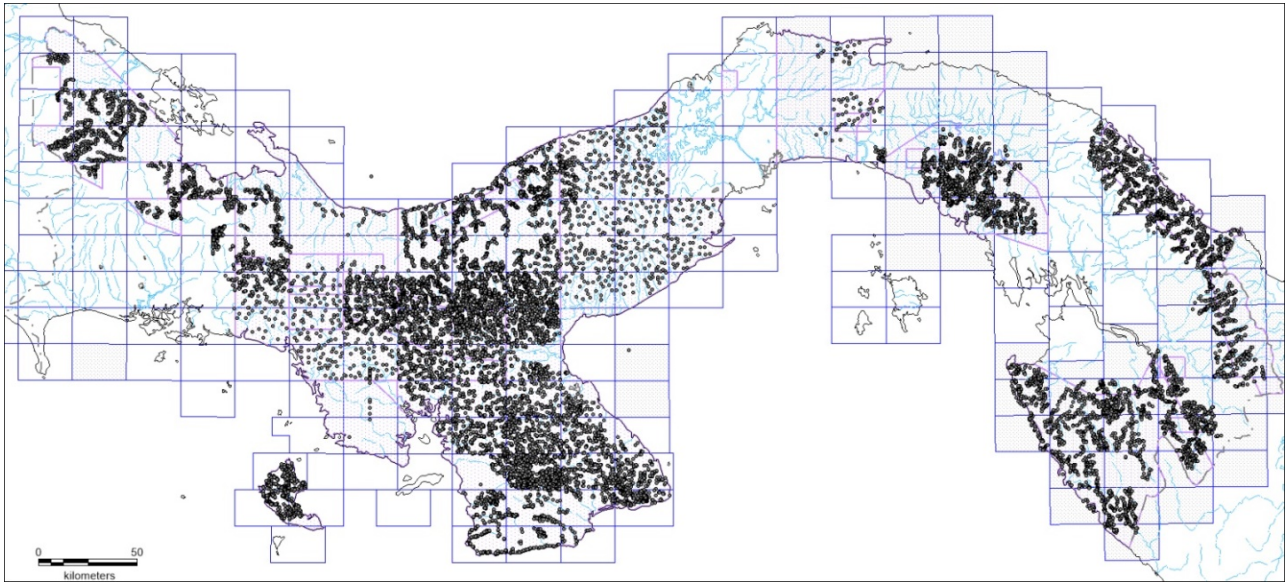
Recursos del Caribe, S.A. offers multielement geochemical data for Panama in GIS format (MapInfo or ArcGIS). The database contains 22,000 stream sediment samples and 10,000 rock, soil and pan concentrate samples. Pricing is provided on the final page of this handout.

Stream sediment surveys in Panama began in 1967 with a series of base-metal programs sponsored by the United Nations. The Rio Pito and the Petaquilla (Cobre Panama) porphyry copper-gold deposits were discovered by these surveys.

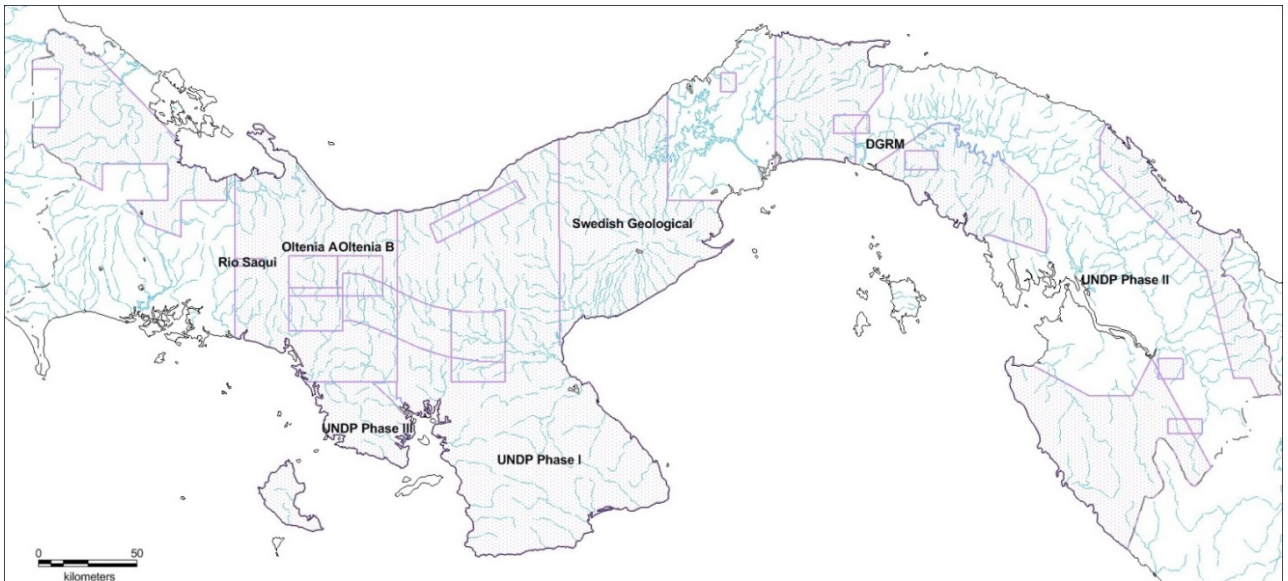
Stream sediment surveys conducted since the 1970's focused increasingly on precious metals. The most comprehensive, carried out by Swedish Geological International (1988-1990), covers much of the area not reached by the United Nations and includes precious as well as base metals.

The area covered by each stream sediment survey is shown in map form on page 2; a summary of United Nations and government sponsored surveys (with the number of samples, elements analyzed, laboratory, etc.) is provided on page 3. This data has been digitized (captured as vector files) and is provided in ArcGIS or in MapInfo format. Copies of the original reports and sample location maps are also provided. Similar multielement geochemical databases are available for Mexico, Nicaragua, Colombia and for other Caribbean countries.

Panama has several known porphyry copper deposits and numerous porphyry copper prospects with resource potential. Cerro Colorado contains 1.38 billion tonnes of 0.76% Cu, 0.08 ppm Au, and 5.1 ppm Ag (11.5 tons Cu, 3.5 Moz Au and 226 Moz Ag) in a single deposit. Petaquilla contains 25 Mtons Cu, 15.5 Moz Au and 205 Moz Ag in a cluster of deposits. Other porphyry deposits are known (e.g. Cerro Chorchá, Rio Pito) and a porphyry-related breccia pipe at Cana produced over two million ounces of gold. There are, in addition, several epithermal gold deposits (Santa Rosa, Remance, Cerro Quema) and numerous porphyry and epithermal prospects.



Panama stream sediment sample coverage



Panama stream sediment survey locations

United Nations and Government sponsored Stream Sediment Surveys of Panama

Program	Location	Area (sq km)	Number of ss samples	Sample density	Elements Analyzed	Lab
UNDP Phase I (1965-1968)	Azuero Peninsula	17,000	5,794	0.34	Cu, Pb, Zn, Mo, Co, Mn, Ni	DGRM Panama
UNDP Phase II (1969-1972)	A: Bocas de Toro B: Maje C: Darien, S. Blas D: Pirre	3950 2800 3850 4800	1151 1011 1817 2200	0.41 0.49 0.47 0.46	Cu, Pb, Zn, Mo Mn, a few Ni, Co Some Au, As, Ag	DGRM Panama
UNDP Phase III	Sona Peninsula Coiba Island	1542 511	535	0.59	Cu, Pb, Zn, Ag, As, Co, Mo, Ni, Mn	DGRM Panama
Codemin -1980	Cerro Colorado	750	324	0.43	Cu, Pb, Zn, Mo, Au, Ag, As	DGRM Panama
DGRM -1982	Rio Tabasara	526	262	0.44	Au, Ag	DGRM Panama
IAEA -1984	Veraguas	760	87	0.12	Cu, Pb, Zn, Mo Au, As, Mn, U	DGRM Panama
Swedish Geological (1988-1990)	West Area Central Area East Area	7,550 6,149 1,925	388 561 71	0.05 0.08 0.00.6	Cu, Pb, Zn Co, Ni, Cr, Mn, Au, As plus 9 major oxides	DGRM Panama

Pricing

Multielement geochemical data, as vector files in ArcGIS or in MapInfo format, is provided for over 22,000 stream sediment samples and 10,000 pan concentrate, rock and soil samples. The database includes original reports (as pdf files) and sample location maps (as georeferenced tiff images).

Cost of the database is US\$22,000.

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