Jamaica multielement geochemical GIS data set

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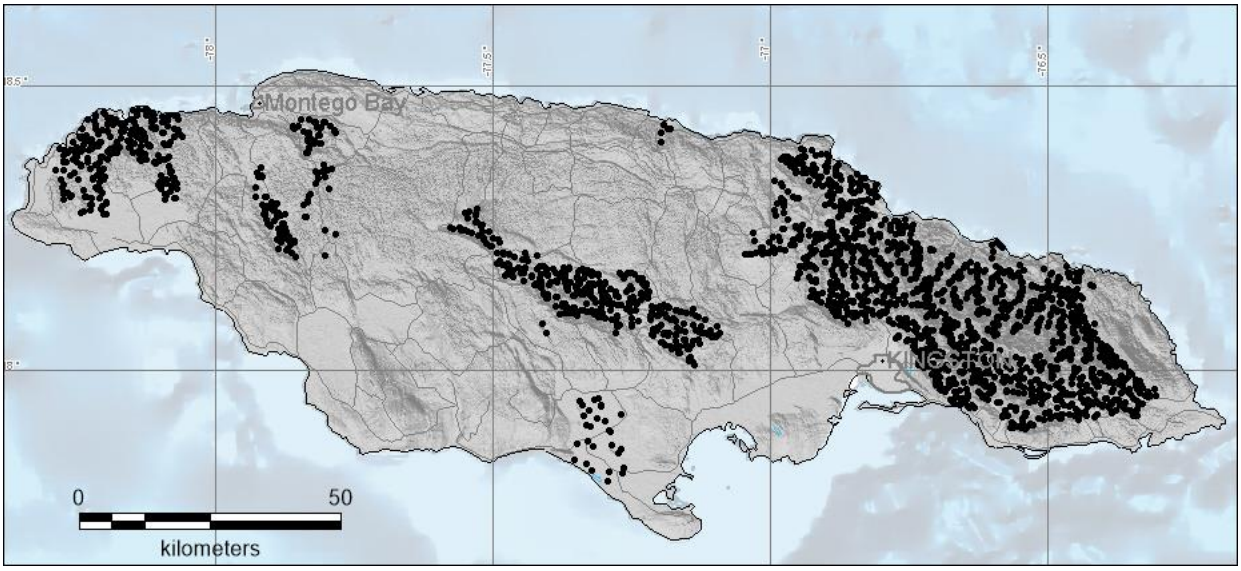
Multielement geochemical data for a total of 2397 stream sediment samples have been compiled (in Mapinfo or ArcGIS format) for Jamaica. The data set includes analytical results for 30 elements including Au, Ag, Cu, Pb, Zn, As, Ni, Cr, Co, Mn, Mo, Cd, Sb, Hg, Fe, Te, Ba, W, La, Sc, Ta, Cs, Eu, Hg, Rb,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