

GIS Data Miner – Caribbean

This project is in partnership with the disaster-response NGO [MapAction](#).

The goal of this project is to collate spatial data concerning administrative districts, transport networks and population data for the Caribbean Basin countries of Belize, Bermuda and Saint Lucia. The resulting datasets will be used by the disaster-response NGO MapAction, URISA GISCorps, humanitarian agencies and national emergency management organizations in humanitarian missions supporting search and rescue, logistics for food distribution to affected populations.

The project will deploy 6 GIS Corps volunteers for 2 months. Volunteers will be involved in **data mining/collation/cleansing/creation**. There will be an overall MapAction project manager and a MapAction project coordinator for each country to assist in compiling existing data and identifying gaps, QA/QC volunteer outputs as well as organize and communicate with MapAction and GISCorps staff.

The feature classes to be obtained in digital form are:

- Political/Administrative boundaries (Country boundaries, Admin level 1, Admin level 2, Admin level 3, Admin level 4, 1:250K with P-Codes)
- Populated places (with attributes including: latitude/longitude, alternative names, population figures, classification) Settlements 1:100K – 1:250K
- Transportation network Roads; Railways 1:250K
- Transportation infrastructure; Airports/Helipads Seaports, 1:250K
- Hydrology; Rivers, Lakes, 1:250K
- City maps, Scanned city maps, 1:10K

Work may be done in any GIS software however the data will have to be produced as ESRI Shapefiles in WGS84 coordinates.

GIS Data Miners must:

- Have prior experience in digitizing various features in ArcGIS Desktop environment (or software with similar capabilities for reading and writing Shapefiles)
- Have access to ArcGIS Desktop 9.3 (or software with similar capabilities for reading and writing Shapefiles) from own hardware
- Be organized and detailed oriented
- Have excellent verbal and written skills
- Have fast access to the Internet
- Be a team player

Duration: preference will be given to volunteers who can commit to work on this project for a total of 60 hours which could be in any combinations (one hour per day for 2 months, two hours per day for 1 month, etc). The work can start immediately.

Type of mission: this mission does NOT require traveling and is conducted remotely. The volunteer will be using their own hardware and software and will be working closely with a country project coordinator, the project manager and the GISCorps representative throughout the project via emails, phone, VoIP, IRC and FTP sites.

Useful reading:

http://onerespone.info/publicdocuments/Operational_Guidance_IM.pdf

<http://www.humanitarianinfo.org/iasc/>

http://www.humanitarianinfo.org/IMToolbox/08_Data_Standards/PCodes/Explanations_Presentations/P-Codes_web_text.htm.

If interested in applying, please send an email to warp@giscorps.org along with your latest resume by February 13th, 2011.

Note: If you are interested in applying for this project but are not already a GISCorps volunteer, you should become one by filling out the volunteer form at:

http://www.giscorps.org/index.php?option=com_forme&fid=1&Itemid=74