

Project for the Strengthening of Spatial Data Infrastructures in Members States and Territories of the Association of Caribbean States

Capacity building programme Introduction to Cartography



November, 2014

Instructors: Ms. Valrie Grant & Dr. Bheshem Ramlal

Duration: 2 Days

Date: November 8-9 2015

Schedule: 9:00-16:30

Objective:

This course will focus on the fundamental principles of Cartography and will teach how to create properly designed maps based on the audience and mode of delivery. You will learn how to follow a standard cartographic workflow to efficiently produce high-quality, easily interpreted maps for print and online use.

At the end of the module students should be able to:

1. Plan a cartographic project.
2. Choose appropriate data to support cartographic needs.
3. Create appropriate symbology, map elements, and layout designs for a given map project.
4. Create labels and annotation that are easy to read by the map's intended audience.
5. Produce cartographically sound maps for print and web delivery.

Day 1

Morning

Introduction of Lecturer and participants & ice-breakers

- The Cartographic Planning Process
 - The cartographic workflow
 - Decisions that must be made before creating a map
 - How will your map be used?
 - What data will you use?
 - How will the data be symbolized?
 - How will you publish your map?
- Evaluating Data
 - Does the data support good Cartography?
 - Geometry and Attributes
 - Map Scale
 - Organizing the data
 - Datum and Projection Systems for Cartography
 - Generalizing data

LUNCH

Afternoon

- Cartographic Design Concepts
 - The Communication Channel
 - Thematic maps
 - Visual Balance
 - Designing symbols
 - Design Consideration for Print ,Web and Mobile
- Text on Maps
 - Evaluating Text placements
 - Text placement for point features
 - Text placement for line features
 - Text placement for polygon features
- Discussion : The Relevance of Cartography

Day 2

Morning

- Layout and Output
 - Map Elements
 - Creating a balanced map layout
 - Coordinate system considerations
 - Map Scale
 - Creating a map series

Practical Exercise: Making a Map (QGIS & ArcGIS)

- Creating a Map for the Web
 - What are web Maps?
 - Design considerations for map services
 - Coordinate system considerations
 - Online basemaps

LUNCH

Afternoon

- Practical Exercise: Storytelling with Maps (ArcGIS Online, StoryMaps)
- Discussion Assignment: Critiquing Maps for Storytelling
- The Future of Cartography

Discussion Assignment: Where are we heading with Cartography?

Instructional Methods

Presentations

Demonstrations

Discussions and group exercises

Practical Exercises