

11th UN-GGIM Session - Side Event



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Caribbean Geospatial
Development Initiative

GEO-EMPOWERING THE CARIBBEAN



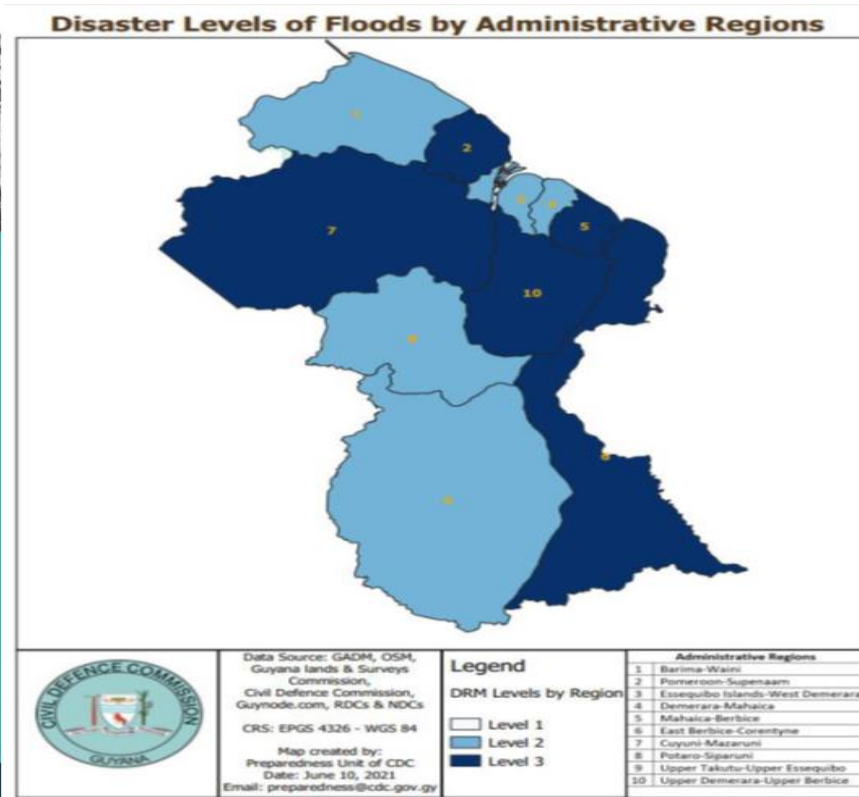
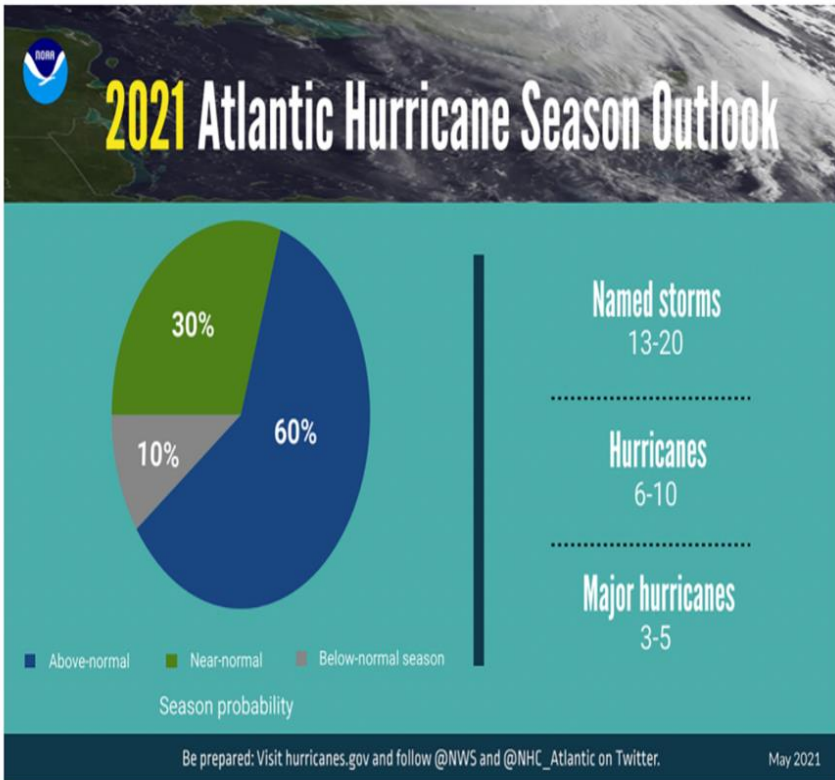
Monday August 16, 2021 @ 9:30 - 11:00 am (EDT)

**Upcoming Caribbean Regional Training Workshops
on Policy and Applications of Geospatial
Technologies and Data in support of Disaster Risk
Management (DRM) in the Caribbean**

Presenter - Artie Dubrie
Coordinator Sustainable Development and Disaster Unit - ECLAC POS,
email: artie.dubrie@un.org

Background

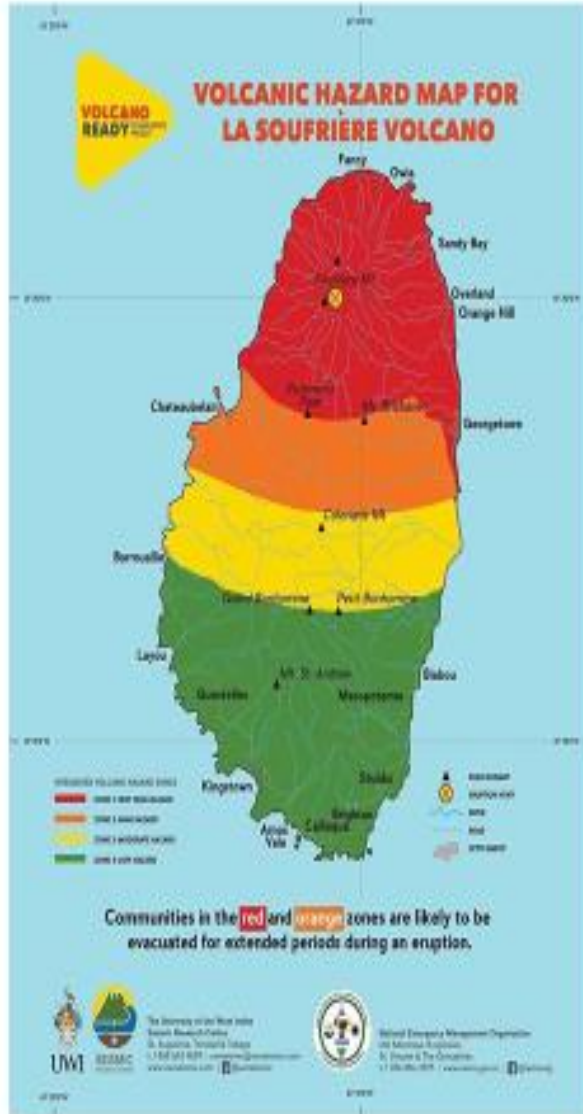
Caribbean Small Island Developing States are vulnerable to external shocks that stem from climate change impacts and in particular the increase in frequency and magnitude of natural disasters



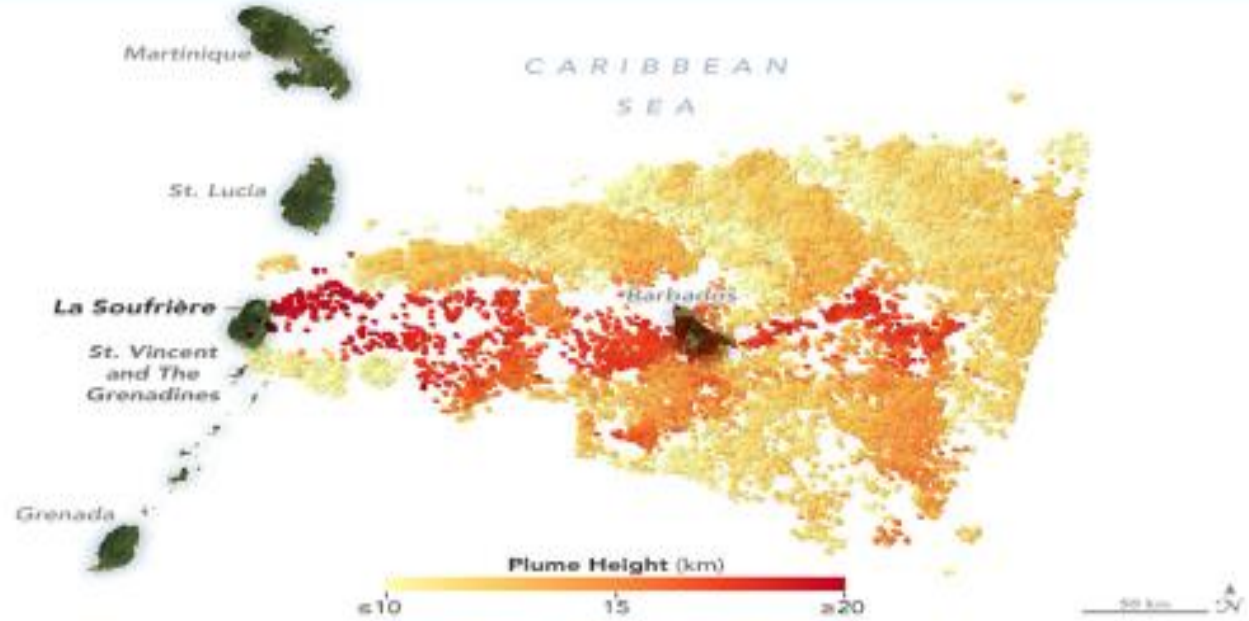
A summary infographic showing hurricane season probability and numbers of named storms predicted from NOAA's 2021 Atlantic Hurricane Season Outlook. (NOAA)



La Soufrière volcano eruption



La Soufrière-Volcanic Eruption Ash Plume Over the Atlantic





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EARTHQUAKE

EVENT INFO



7.2

Magnitude

Place: 12 km NE of Saint-Louis du Sud

Time: 14 August, 12:29 GMT

Depth: 10.0 km

Coord.: Lat: 18.35 Lon: -73.48

Populat.: 623,731 within 30 Km

Automatically generated **SHAKE MAP** powered by:
ADAM - Automated Disaster Analysis and Mapping

14 August 2021

14:45:38 GMT

USGS ShakeMap

Instrumental Intensity	I	II-III	IV	V	VI	VII	VIII	IX	X
Potential Shaking	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
Potential Damage	None	None	None	Very Light	Light	Moderate	Moderate/Heavy	Heavy	Very Heavy



Nippes, Haiti



MODIFIED MERCALLI INTENSITY SCALE:

7.6/10

Intensity class VII:
People have difficulty standing. Drivers on the road feel their cars shaking. Furniture may be overturned and broken. Loose bricks fall from buildings and masonry walls and cracks in plaster and masonry may appear. Weak chimneys may break at the roofline. Damage is slight to moderate in well-built structures; considerable in poorly constructed buildings and facilities.

Concepts and definitions

Shake Map combines instrumental measurements of shaking with information about local geology and earthquake location and magnitude to estimate potential impacts throughout a geographic area.

The estimated intensity map is derived from ground motions recorded by seismographs and represents Modified Mercalli Intensities (MMI's) that are likely to have been associated with the ground motions.

Magnitude and Intensity measure different characteristics of earthquakes. Magnitude measures the energy released at the source of the earthquake. Magnitude is determined from measurements on seismographs. Intensity measures the strength of shaking produced by the earthquake at a certain location. Intensity is determined from effects on people, human structures, and the natural environment. (Source: USGS)



WFP Country Office

WFP Sub Office

WFP Warehouse

Airport

Port

Nuclear power plant

Earthquake epicenter

Dam

Water body

International boundary

First level administrative boundary

Main road

Please report errors to hq.gis@wfp.org. Event ID: us6000165h. Map projection: WGS 84 / UTM zone 18N (EPSG 32618). Sources: USGS (ShakeMap layer, earthquake info), GALL, WFP, NASA, ESRI. The designations employed and the presentation of material in this map do not imply the expression of any opinion whatsoever of WFP concerning the legal or constitutional status of any country, territory or sea area, or concerning the delimitation of

Caribbean Regional Training Workshops

In collaboration with the Caribbean Catastrophic Risk Insurance Facility – Segregated Portfolio Company (CCRIF-SPC), this Caribbean regional workshop aims to provide to policymakers and technology users on the advances in geospatial technologies and their applications in DRM in the Caribbean. Targeting government institutions in the Caribbean region, this workshop will be delivered under two components and as follows:

1. Workshop #1: Policy Issues towards effective Applications of Geospatial Technologies and Data in DRM, hosted online via WebEx - August 30, 2021, at 9:00 AM -12:00 PM (3 hours). This workshop is designed for senior technical and policy making officers having responsibilities in selecting and using technologies for DRM.

2. Workshop #2: Technical Issues towards effective Applications of Geospatial Technologies and Data in DRM, hosted online via WebEx - September 6-8, 2021 from 9:00 AM -12:00 PM daily and estimated 12 hours of training. This workshop is designed for technical officers responsible for GIS and application development in DRM.

Training Needs Assessment

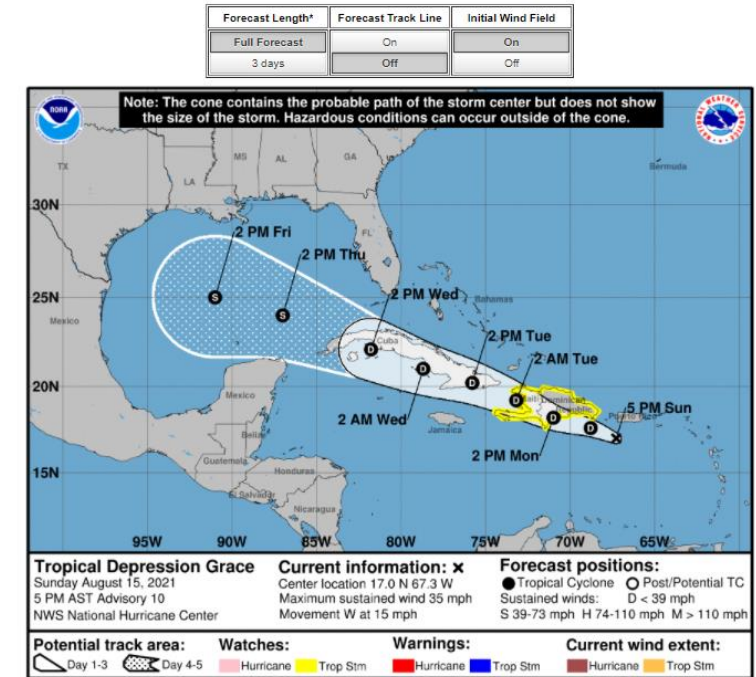
In the planning for these workshops a training needs assessment was done for each candidate.

Candidates were requested to respond to how they rate knowledge of the use of the following tools for DRM on :

- ✓ Knowledge of **geographic information systems (GIS)**
- ✓ Knowledge of **spatial analysis tools**
- ✓ Knowledge of **satellite remote sensing**
- ✓ Knowledge of **global navigation satellite systems (GNSS or GPS)**
- ✓ Unmanned **aerial vehicle (Drone technology)**
- ✓ Processing of **satellite imageries**
- ✓ **Database design and management**

The information received from this assessment, will then be used in the design of the training materials.

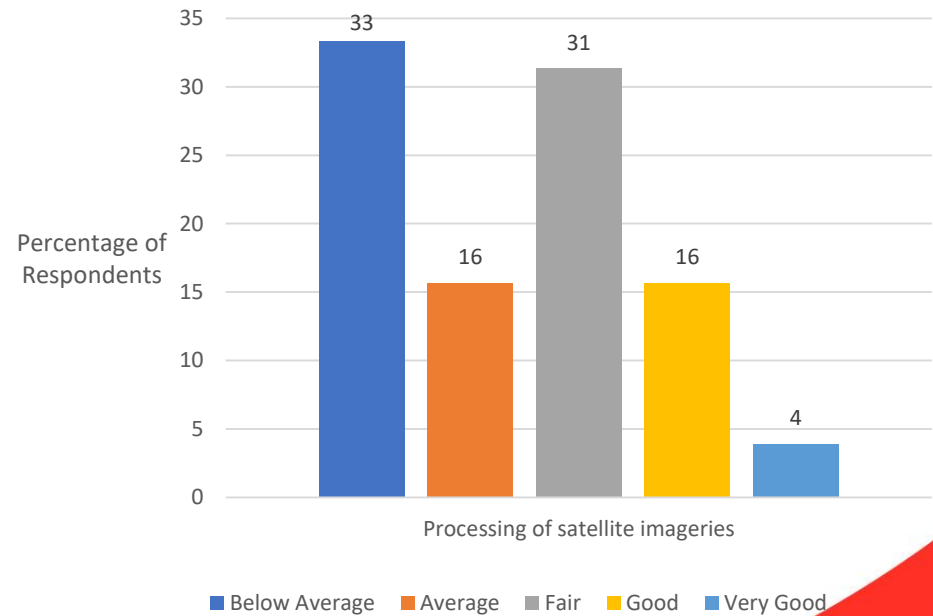
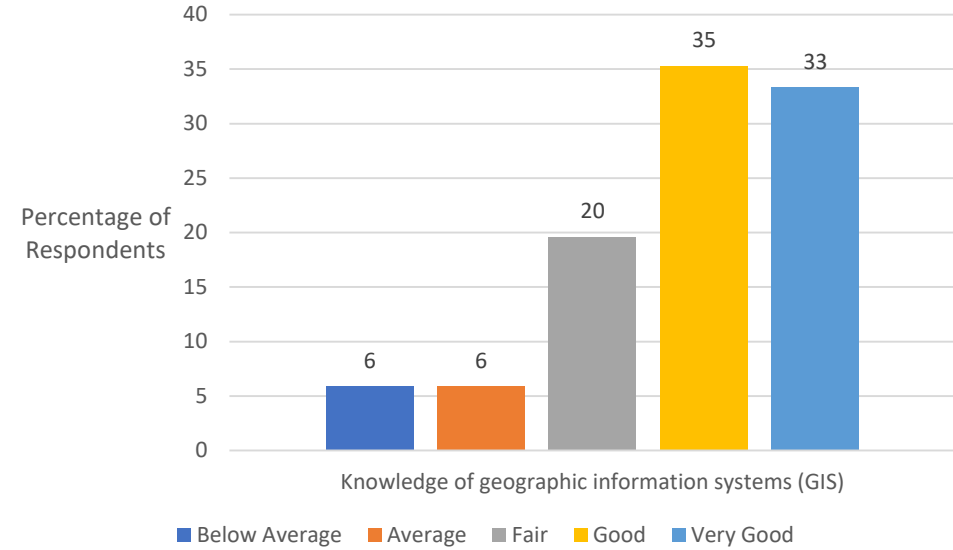
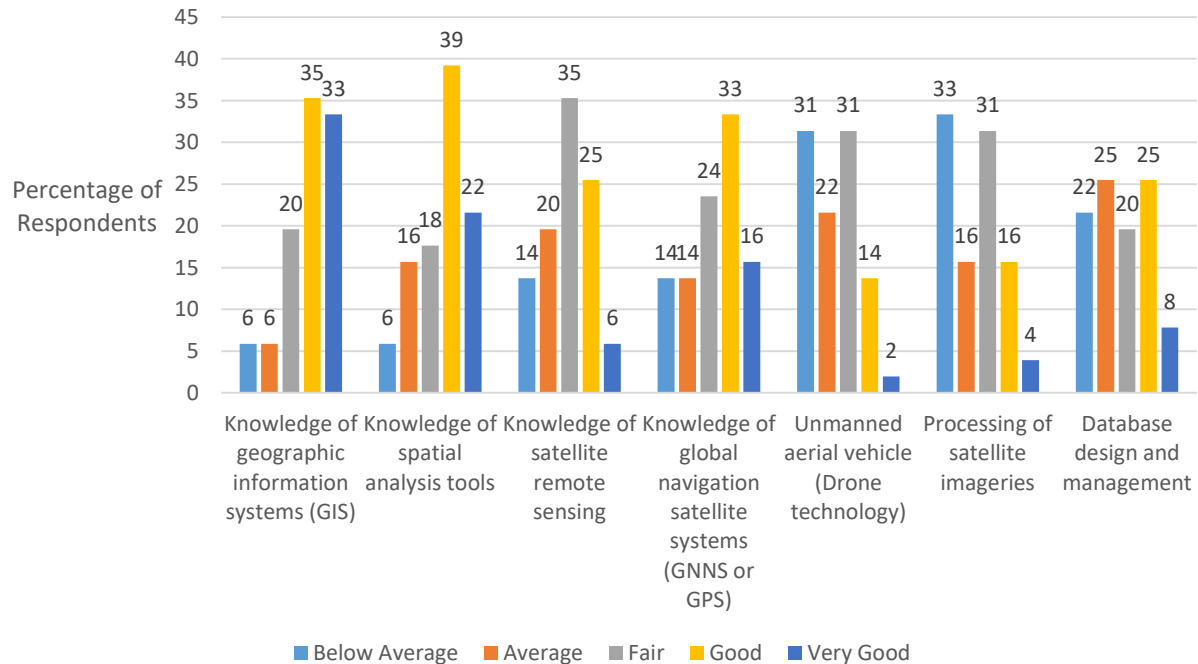
Coastal Watches/Warnings and Forecast Cone for Storm Center



* If the storm is forecast to dissipate within 3 days, the "Full Forecast" and "3 day" graphic will be identical

Training Needs Assessment

Preliminary Results of Training Needs Assessments: Knowledge of Geospatial Tools Used in Disaster Risk Management





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Thank you!

August 16, 2021