

HURRICANE BERYL

Grenada and St. Vincent & the Grenadines

PAHO



Situation Report # 10 – 16 July 2024



Photo credit: Prime Minister's Office Saint Vincent and the Grenadines

HIGHLIGHTS

- PAHO/WHO Representative for Barbados and Eastern Caribbean Countries is currently in Saint Vincent and the Grenadines and visiting impacted areas in the Grenadines.
- The Health Services assessment was conducted of four health facilities in Union Island and Saint Vincent (Chateaubelair, Barrouallie, Buccament and Vermont). The assessment found limited damage to these facilities, and all were fully operational.
- Detailed damage assessment of Mayreau Health Centre and the Celina Clouden Hospital, and the Celina Clouden Doctor's Quarters, Union Island was conducted. The cost to repair the two health facilities is an estimated \$312,886.80.
- The Ministry of Health in Grenada is looking to initiate health sector meetings and daily briefings at the ministerial level.
- The Minister of Health led a team to Carriacou to carry out an assessment of health facilities. Repairs of the Princess Royal Hospital were indicated as an urgent need.
- In St Vincent and the Grenadines, assessment reports indicate infrastructural damage in Park Hill, Ashton Clinics and Mayreau Health Centre, although Park Hill is operational and seeing patients.

IN NUMBERS

215,530
Potentially
exposed¹

11 Deaths²

30 Injured³

02 Missing⁴

1000 Evacuated⁵

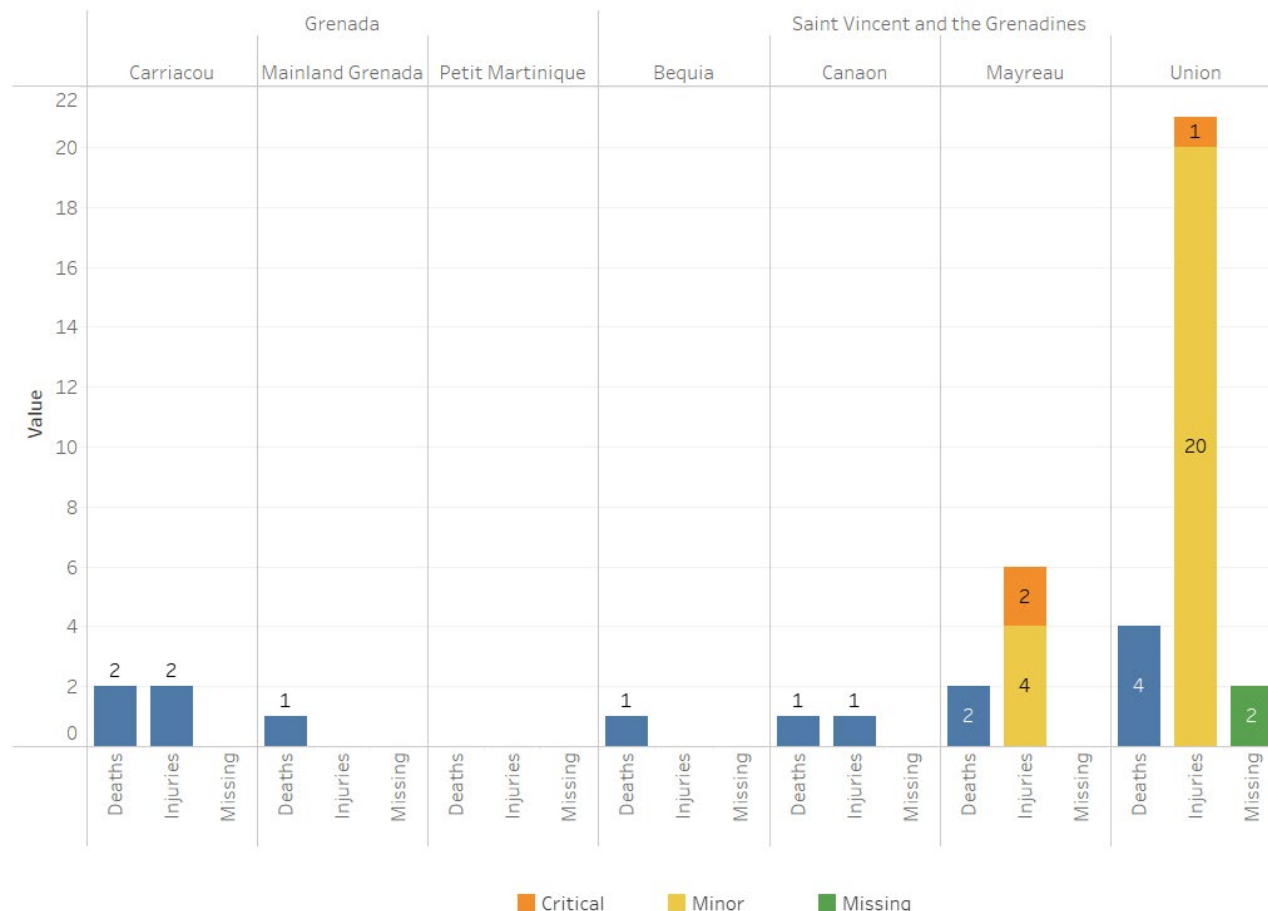
**14 Damaged
health facilities⁶**

1: Country latest census data –, Grenada and St Vincent & the Grenadines.

2,3,4,5: Assessments are still ongoing and what is reported are based on preliminary information.

6: Ministry of Health initial report

GRENADA AND ST. VINCENT AND THE GRENADINES



GRENADA

- The team is working to institute daily surveillance to include the shelters.
- The Environmental Health team have received one of the free chlorine disk test kits.
- The Ministry of Health in Grenada wants to commence health cluster meetings and daily briefings at the Ministry level.
- To provide increased access to health services in Carriacou, medical pop-up clinics are organized for two areas in the coming week.
- Due to a foodborne illness concerns the Ministry of Carriacou and Petite Martinique Affairs and Local Government announces the closure of two establishment in Carriacou due to food safety breaches with the preparation and distribution of meals.
- The Grenada Diaspora Advisory Council, in collaboration with the Afya Foundation, the MOH and Jet Blue Airlines has launched the Luggage for Life Initiative. The project aims to expedite the delivery of and access to essential medical supplies to support Hurricane Beryl relief efforts in Carriacou, Petite Martinique, northern Grenada as well as St Vincent and the Grenadines.

- Psychosocial support is being provided through the Ministry of Social Development and the Ministry of Carriacou & Petite Martinique Affairs and Local Government from July 16th – 22nd 2024 at the NEOC in Carriacou and community walk-through.
- Kobo toolbox is currently being used to collect data surveillance in shelters.

SAINT VINCENT AND THE GREANDINES

- Actively monitoring of the country's epidemiological surveillance systems is being done. Routine syndromic surveillance has not identified any alarming trends. However, there is uncertainty with the completeness of the reporting including the number of health centres that are reporting. Health surveillance overall is impacted due to the displacement of people, and electronic communication challenges.
- The Health Services assessment was conducted of four health facilities in Union Island and Saint Vincent (Chateaubelair, Barrouallie, Buccament and Vermont). The assessment found limited damage to these facilities, and all were fully operational.



HEALTH RISK ASSESSMENT

- An increase in the presence of mosquitoes is noted in Grenada at the same time the country is already facing an outbreak of dengue. The combination of recent rainfall and the existing outbreak of dengue poses a significant risk for the further spread of the disease. The current situation exacerbates the risk of the disease spreading further, potentially leading to more severe outbreaks and impacting public health in the country. Mosquitoes are known to breed in standing water especially water storage containers which has increased due to the disruption of running water. The increase mosquito infestation posed a risk for transmission of the Dengue, Chickungunza and Zika viruses.
- The risk for other disease transmission such as leptospirosis and foodborne diseases remains high.
- Possible interruption of the vaccination programme in the affected areas, lack of running water, debris accumulation, and challenges in the maintenance of hygienic conditions in the most affected communities remains a risk to public health.
- Continued progress is being made to fully restore the provision of essential health services, especially in areas where the health facilities were significantly impacted.



INFRASTRUCTURE

GRENADA

- Sauteurs Health Centre received a generator on 13 July 2024 from IOM Partner which now allows the facility to be fully operational to facilitate 24 hours operation.
- Given the importance of Princess Royal Hospital to Carriacou, there is a need for the repair of this facility to be done urgently.

ST. VINCENT AND THE GRENADINES

- **Park Hill Clinic:** although operational, infrastructural issues reported i.e. leaking roofs, damaged windows and doors.
- **Ashton Clinic:** is non-operational due to extensive damage to the structure, including a damaged roof, broken windows, and doors. The lack of operational clinics poses a significant risk to the community's health and well-being, emphasizing the urgent need for repairs and restoration.
- **Mayreau Health Centre:** roof severely damaged, electrical system and emergency generator not functional, solar



heater destroyed, windows, doors and shutters damaged, rendering the facility non-operational.

- **Colonaire Clinic:** currently under repairs not associated with Hurricane Beryl.



GRENADA, CARRIACOU AND PETIT MARTINIQUE

- Ongoing efforts to fully restore water and electricity, especially in Carriacou and Petite Martinique.
- Samaritan’s Purse has set up two (2) portable desalination plants in Carriacou.

ST. VINCENT AND THE GRENADINES

- Environmental Health and PAHO team conducted environmental health and WASH assessment on Union Island.
- The water storage tank in Union Island was drained, cleaned and refilled.
- Several cisterns are functional, and people have been accessing water using buckets where no generator is available to pump the water. Chlorine blocks and tablets are to be distributed to persons for treating cisterns and water in other containers. Several 1,000-gallon black tanks are still standing. Recommendation to truck water to fill these tanks and use as communal tanks.



*Please note the status of the number of people in shelters is constantly changing as occupants arrive and leave.

GRENADA

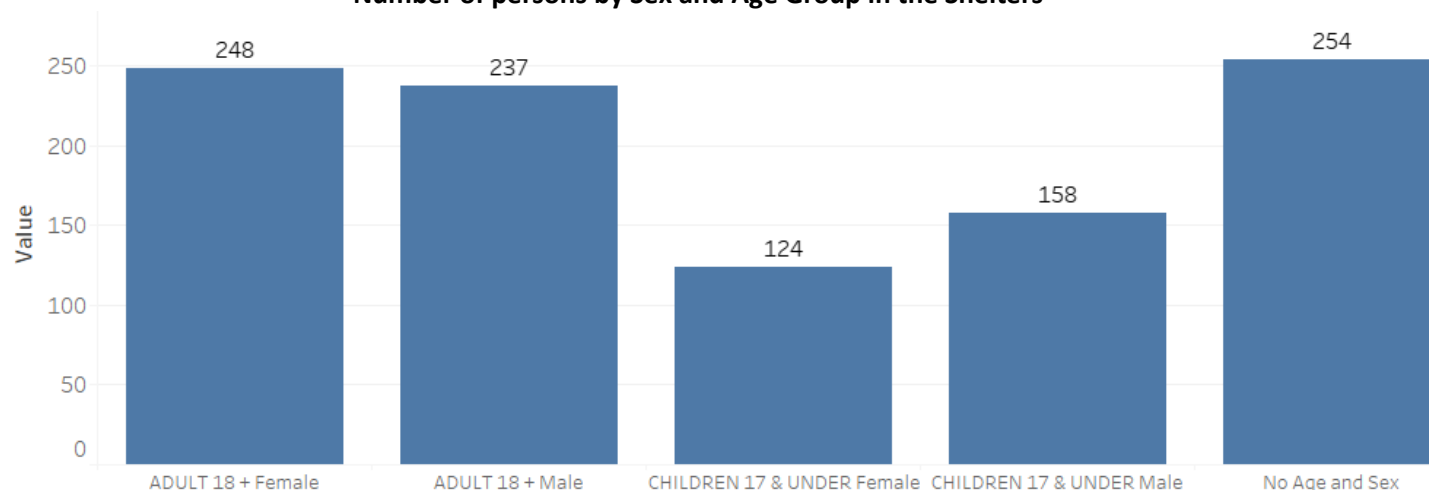
Shelter information Carriacou and Petite Martinique on 12th of July 2024:

Facility	# of persons
St Thomas Aquinas R.C. School, Petite Martinique	63
Dover School, Carriacou	40
Hillsborough Government School	88
Our Lady of the Rosary Catholic School, L’Esterre	61
Harvey Vale Government School	35
Total	287

ST. VINCENT AND THE GRENADINES

- There are 1021 people in shelters in 49 shelters on 12th of July 2024.
- Together with a Vector Control Officer from the Ministry of Health, six shelters were inspected for signs of infestations, such as rodents and mosquitoes. The general sanitation conditions in the shelters were found to be satisfactory. It was observed that the shelters are regularly visited by nurses.
- Based on the assessments conducted, there is a reported need for increased availability of clean drinking water, cleaning supplies, disinfectants, garbage bags, and baby-related items.
- Unofficial shelters pose significant public health and sanitation challenges.
- All shelters have electricity and running water. There is backup water storage in barrels, tanks, buckets, bottles, etc. All shelters have adequate functioning toilets; some do not have showers.

Number of persons by Sex and Age Group in the Shelters



UNION ISLAND

The shelters at Clifton Resource Centre and Clifton Pre-school are facing water scarcity issues, with limited access to clean water for basic hygiene and sanitation purposes. These challenges further highlight the vulnerable conditions that the residents are currently living under and the immediate need for intervention.

Ashton Clinic		
Centres/Shelters	Number of Person	Observations
Ashton's gospel hall	9	There is a water tank currently being used to flush the toilets, which is almost empty.
Clifton Resource Center	56	There are three (3) toilets which are flushed with water from a bucket with water coming from a cistern. There is one water tank. There is one wheelchair patient.
Clifton Pre-school	25	There are two (2) toilets and one (1) bath, water is being drawn from the cistern.



HEALTH NEEDS

GRENADA AND SAINT VINCENT AND THE GRENADINES

- Adequate health sector waste disposal in Saint Vincent and the Grenadines.
- Psychosocial support for those affected, either directly or indirectly by the hurricane with a special focus on healthcare workers.
- Detailed damage assessment of health facility infrastructure.
- Repairs to damaged health facilities, including water storage rehabilitation and replacement of damaged health supplies and equipment, such as refrigerator for cold chain, vaccines and essential medications.
- Safe shelter/accommodation for health care staff on affected islands.
- Health care staff replacement to relieve overworked colleagues working in harsh conditions

- Replacement of critical medicines, medical supplies, equipment, laboratory reagents, and other health commodities including vaccines
- Increase surveillance, especially in the shelters.
- Provision of food rations and water for health care workers.

GRENADA

- Request for support received from the Community Nursing Division for solar lamps/flashlights, mosquito nets, thick rubber gloves, water boots, sanitary napkins, baby diapers and health workers scrubs.
- The Health Promotion department submitted a request for megaphones and public health messaging to be incorporated into movie nights to be held in shelters, along with printed materials. These are to be used in shelters and communities with no power or internet.
- One generator from the PAHO shipment of supplies will be sent to Sauteurs Health Centre tomorrow, Saturday 13th July 2024. The remainder of the shipment along with 100 tarps and 20 solar lights will go to Carriacou next week.

For more details, see appendix 2 for the complete list of supplies needed.



RESPONSE

GOVERNMENT RESPONSE

GRENADA:

- Cabinet has suspended travel for all public officers until July 31st, 2024
- In a press release dated 9 July 2024 the government of Grenada issued an urgent call to individuals, locally and internationally to volunteer their time and skills to assist in the relief efforts
- The government has centralized all donations/supplies through the National Disaster Management Agency (NaDMA) for distribution; these donations will be tax and duty exempt once sent through this channel.
- State of emergency remains in place for Carriacou and Petite Martinique, curfew is 6:00pm to 6:00am. All persons travelling to Carriacou require approval.
- Health Promotion Unit has set up a 'WhatsApp Health Channel' to allow persons to connect with the Ministry for health information.
- On July 14th, 2024, an additional 50 soldiers from Guyana arrived in Carriacou to support the recovery and rebuilding efforts in Carriacou and Petite Martinique. This brings the total number of Guyanese soldiers to 58. Furthermore, the Governments of Guyana and Suriname donated additional relief and building supplies.

SAINT VINCENT AND THE GRENADINES:

- The government has prioritized a WASH Hygiene Education program for St Vincent main island with a focus on shelters.
- Public health interventions are ongoing between the islands which include inspections, disinfection and sanitation measures.
- In a meeting with PAHO, the PM indicated that 3 companies had been hired to do heavy duty cleaning and 100 general workers have also been hired to assist. The Government has allocated 1 million EC dollars to deal with the relief effort inclusive of matters pertaining to WASH.
- It was reported that debris clean up in the southern Grenadines is ongoing.



PAHO RESPONSE

- PAHO/WHO Representative for Barbados and Eastern Caribbean Countries is currently in Saint Vincent and the Grenadines and visiting impacted areas in the Grenadines.
- PAHO continues to conduct health facility and services assessment, including environmental health and MHPSS support.
- Assisting MOHs in strengthening surveillance in shelters in both Grenada and St Vincent and the Grenadines.
- Organized logistics to transport materials and supplies to Carriacou, Grenada.
- Donated water testing kits to NAWASA.
- PAHO is drafting proposals for the Flash Appeals and CERF application for Grenada and St Vincent and the Grenadines.
- PAHO continues to coordinate with a Samaritan's Purse EMT in Carriacou and another in Union Island.
- Ongoing coordination with the MOHs (PSs, CMOs, MOH Disaster coordinators and focal points) in countries.



PWR ECC tours doctor's quarters at Celina Cloudin Hospital in Union Island



PWR-ECC on a tour of the Celina Cloudin Hospital with the Minister of Health, Permanent Secretary and resident doctor



PWR-ECC visits the Canouan Diagnostic Medical Centre in Canouan

COORDINATION

- The first MHPSS coordination meeting was convened by PAHO and held on July 10, 2024.
- The 2nd Health Sector Coordination Meeting was held on 11th July 2024.
- PAHO continues to closely coordinate with CDEMA, WFP, IOM and other UN and regional agencies.
- PAHO continues to participate in the CDPG meetings.
- The CMT remains active and continues to follow up with the MOHs as we await further information.
- Contact remains with CDEMA, CARPHA, UN agencies, and other relevant organizations.



APPENDIX – 1

Supplies donated to the Ministry of Health, St. Vincent and the Grenadines as of 7 July 2024

Description	# Quantity
All Steel Economy Shovel Square Mouth	6
Stiff Green Yard Broom 12" With Handle 9.50	8
Garbage Bin Wheeled Green 240L/55Gallon Wheelie Bin	5
3" x 50' Delivery Hose (Blue) with Male & Female Camlocks	4
3" x 14' Suction Hose (Green) with Female Camlock	4
STIHL WP600 Water Pump 3", 212cc, 4.4kw, 264 Gal/Min S/N 951636949 591636967 951636948 951636954	4
SCEP Gas Can 5.3 Gallon (20L) Red	4
Black Floor Squeegee with handle 30"	5
ELITE Lemon Gard Disinfectant Cleaner 4 Litre/1 Gallon ELITE Lemon Gard Disinfectant Cleaner 4 Litre/1 Gallon	39
BOSS PVC Raincoat 48" (2XL) BOSS PVC Raincoat 48" (3XL)	19
Classic Raincoat, Navy - Sz. S - 20 Each Classic Raincoat, Navy - Sz. M - 14 Each Classic Raincoat, Yellow - Sz. M - 10 Each Classic Raincoat, Yellow - Sz. M - 5 Each Classic Raincoat, Black - Sz. L - 30 Each Classic Raincoat, Navy - Sz. XL - 15 Each	94
Tall Water Boot, Green, (Sz.12) (C8) - 15 Pairs Tall Water Boot, Green, (Sz.13) - 10 Pairs	25
Tall Water Boot, White, (Sz.10) (C8) - 15 Pairs	15
Tall Water Boot, White, (Sz. 6) (C8) - 15 Pairs Tall Water Boot, White, (Sz. 7) (C8) - 15 Pairs Tall Water Boot, White, (Sz. 8) (C8) - 15 Pairs Tall Water Boot, White, (Sz. 9) (C8) - 15 Pairs Tall Water Boot, White, (Sz.11) (C8) - 15 Pairs	75
Tarpaulin Ploly Blue 45' x 30' / 13.7 x 9m	20
Tarpaulin Ploly Blue 30' x 24' / 9 x 7.3m	15
Tarpaulin Ploly Blue 24' x 18' / 5.5 x 7.3m OSV	10
Tarpaulin Ploly Blue 18' x 12' / 5.5 x 3.65m	5
KARCHER BP 3 Water Pump Complete with Tank and Pressure Switch 1.0HP 800W 3000L/H (B1) - S/N 010940, 065864, 011606, 011616	4
KARCHER BP 4.9 Water Pump Complete with Tank and Pressure Switch 1.5HP 1100W 4500L/H - S/N 012318, 012371, 012240, 012234, 012243, 012304, 012373, 012372, 012307, 036130, 012365	11
Generator 10,000 Watts Red Dual (Fuel PWRD)	1
650 GL Water Tanks 77.5"x 52"	7
1000 GL Water Tanks 100"x 65.5"	8
650 GL Water Tanks 77.5"x 52"	2
1000 GL Water Tanks 100"x 65.5"	2
Chlorine Drums	12
Aguatabs 33mg	120,000
Aguatabs 67mg	32,000

Water testing kits HACH CN70	6
Generator 6500W	2
Deployment bags	10

Supplies donated to the Ministry of Health, Grenada as of 7 July 2024

Description	# Quantity
Aguatabs 33mg	120,000
Aguatabs 67mg	32,000
Water testing kits HACH CN70	6
Generator 6500W	2
Deployment bags	10
Water testing Kits – To NAWASA (National Water & Sanitation Authority)	2

APPENDIX – 2

List of supplies needed for Grenada

Description	# Quantity
5-gallon Jerry cans (water)	
Adult pampers	
Baby Formula	
Baby pampers & wipes	
Batteries & Battery packs	
Books/coloring books for children	
Chain saw	
Collapsible water bladders (3,000 gallons and bigger)	
Cots & sleeping blankets	
Emergency solar/battery operated radios	
First aid kits	
Flashlights (Solar)	
Fuel cans	
Hand Sanitizers	
Hygiene kits for children	
Hygiene kits for women and men	
Nonperishable food such as milk, mixed vegetables, sardines, corn etc.	
Pillows	
Reflective Vests	
Sanitary Napkins	
Solar lights Generators (5,000 watts)	
Spare bars & chains (18 – 32-inch blades)	
Tarpaulin (100ft, 40x30ft)	
Toiletries	
Water	

List of supplies needed for St. Vincent and the Grenadines

Description	# Quantity
1000 GL Water Tanks 100"x 65.5"	8
1000 GL Water Tanks 100"x 65.5"	2
650 GL Water Tanks 77.5"x 52"	7
650 GL Water Tanks 77.5"x 52"	2
Adult Diapers	1,000 CASES
Battery Operated Lantern/Solar	5,000
Bedding Kits	30,000
Chain Saws and Accessories	100
Children Pampers	1,000 CASES
Chlorine Drums	12
Cots	20,000
Flashlights With Batteries	5,000
Generator	5
Generators	45
Hygiene Kits	30,000
Mattresses	1,500
Mattresses	3,000
Power Banks	200
Rakes	600
Ropes	2,000
Shovels	5,000
Tarpaulins	8,000
Tarpaulins	3,000
Tarpaulins	8,000
Water Jugs	30,000
Wheel Borrows	600

APPENDIX – 3

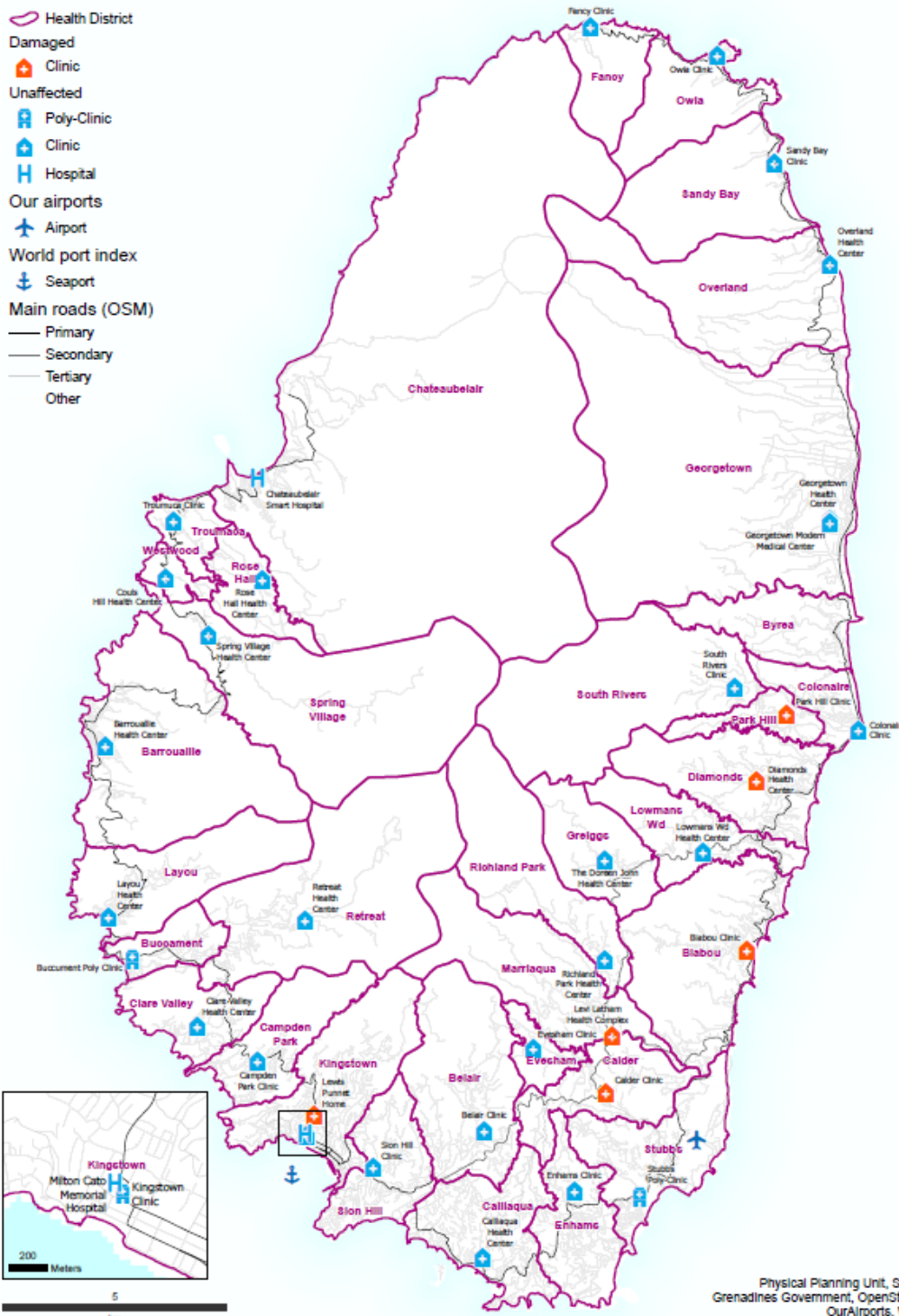
Status maps of healthcare facilities in Grenada and St. Vincent & the Grenadines



St Vincent & Grenadines: Hurricane Beryl
St Vincent Health Facilities and Districts

MA016 v01

- Health District
- Damaged**
- Clinic
- Unaffected**
- Poly-Clinic
- Clinic
- Hospital
- Our airports**
- Airport
- World port index**
- Seaport
- Main roads (OSM)**
- Primary
- Secondary
- Tertiary
- Other



Data Sources
Physical Planning Unit, St Vincent and the Grenadines Government, OpenStreetMap, GADM, OurAirports, World Port Index.

Map created by MapAction (06/07/2024)

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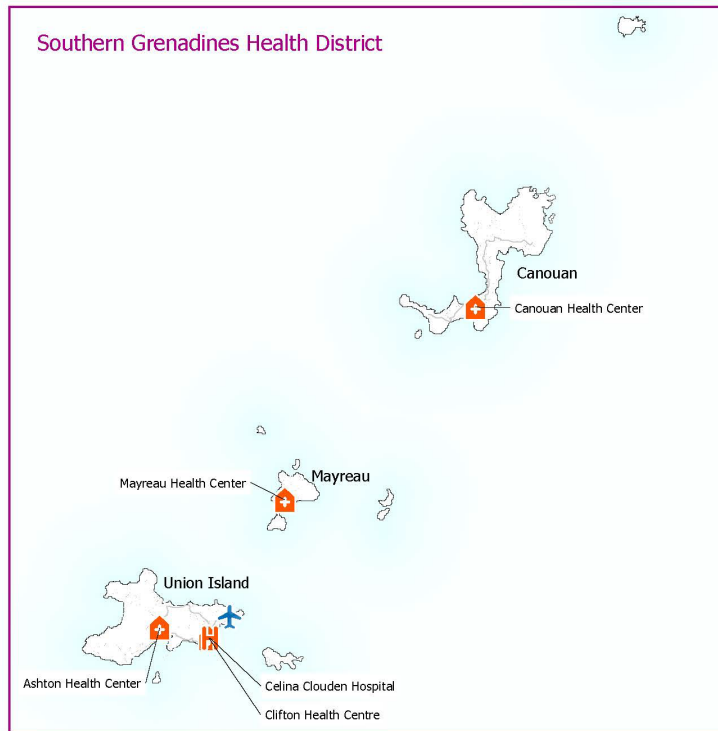
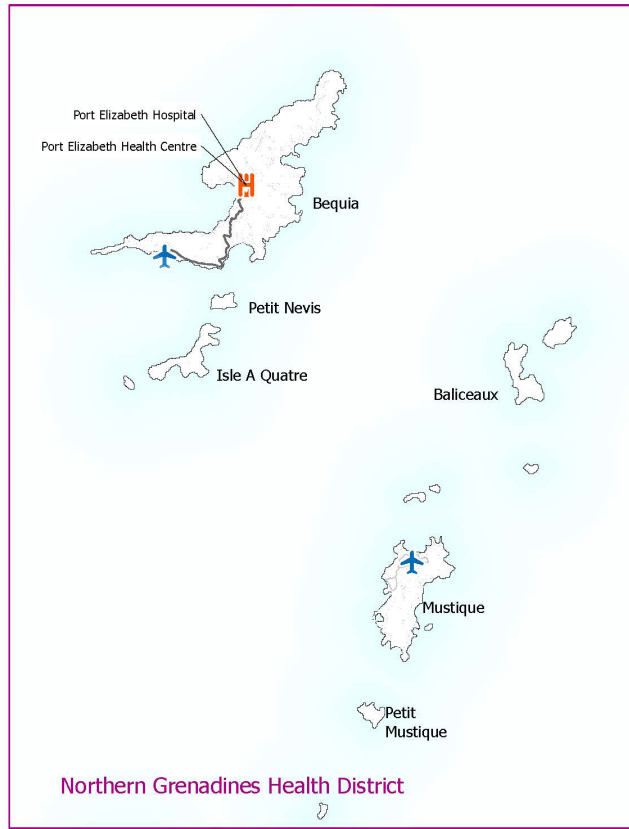
Health Facility

Damaged

- Clinic
- Hospital
- Airport
- Seaport

Main roads (OSM)

- Primary
- Secondary
- Tertiary
- Other



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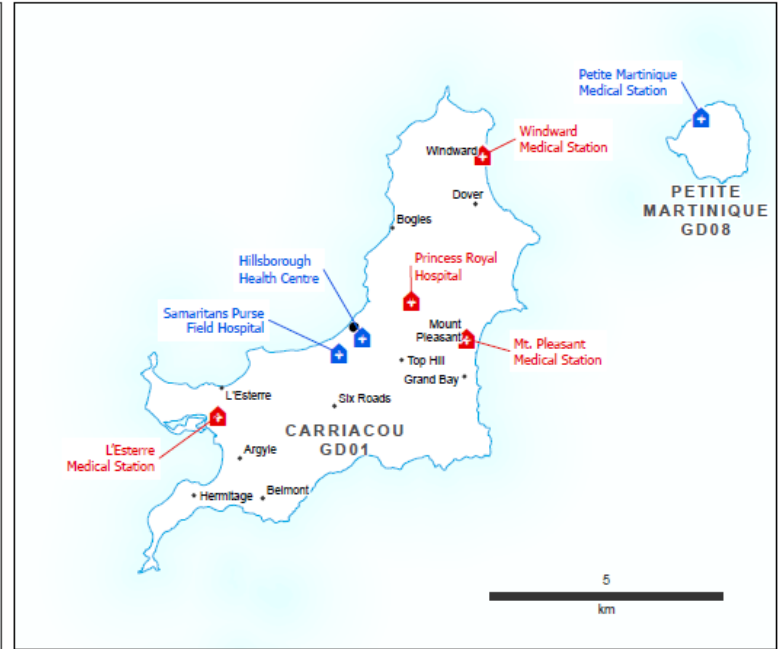
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Data Sources

PAHO, Physical Planning Unit, St Vincent and the Grenadines Government, OSM, OurAirports, GADM, World Port Index.

Map created by MapAction (11/07/2024)



Health Facilities

- Closed
- Open

Settlement

- Capital
- Town
- Village

Boundary

- Parish

Health Facilities on Grenada and Carriacou based on data from Pan American Health Organisation (PAHO), dated 8 July 2024.

Data Sources
Pan American Health Organisation, OperStreetMap.GeoChis

Map created by MapAction (09/07/2024)

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