

HURRICANE MARIA

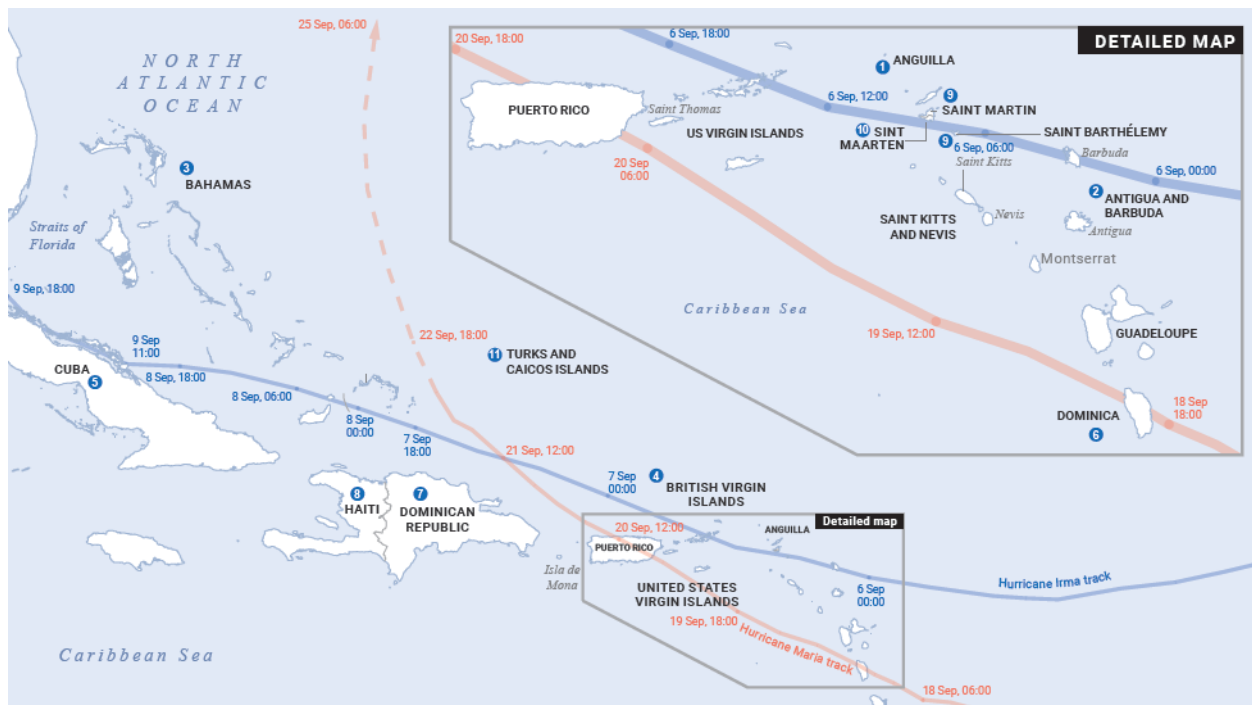
SITUATION REPORT #5

AS OF 9:00PM AST ON SEPTEMBER 28, 2017

SYNOPSIS OF HURRICANE MARIA

Maria, the 13th named hurricane of the 2017 Atlantic Hurricane Season, became a category 5 hurricane near the Leeward Islands on Monday September 18th, 2017. Hurricane Maria impacted Dominica at approximately 9:35pm on September 18th as an extremely strong hurricane with wind speeds of 155 mph. Maria then impacted Antigua and Barbuda, Montserrat and St. Kitts and Nevis on September 19th, 2017 and the Virgin Islands September 19 – 20, 2017.

MAP OF IRMA AND MARIA OVER CARIBBEAN SEA



Source: UN OCHA, September 2017



DOMINICA



27 fatalities



Significant damage to bridges



Severe damage to electricity infrastructure



Most roads are cleared of debris



Significant damage to main water supply



Airports serviceable to emergency flights



Significant damage to housing stock



The hospital sustained significant damage and is being repaired



100% agriculture destroyed



Damage Assessments are on-going to finalize critical needs



Relief packages distributed as of Sept. 26, 2017
 - 5,675 (10kg)
 - 2,250 (kg)
 - 15.7 Tons
 - 1 PI (600kg)



46,465 Water (litres)
 3,880 (1.5L Bottle water) distributed as of Sept. 26, 2017

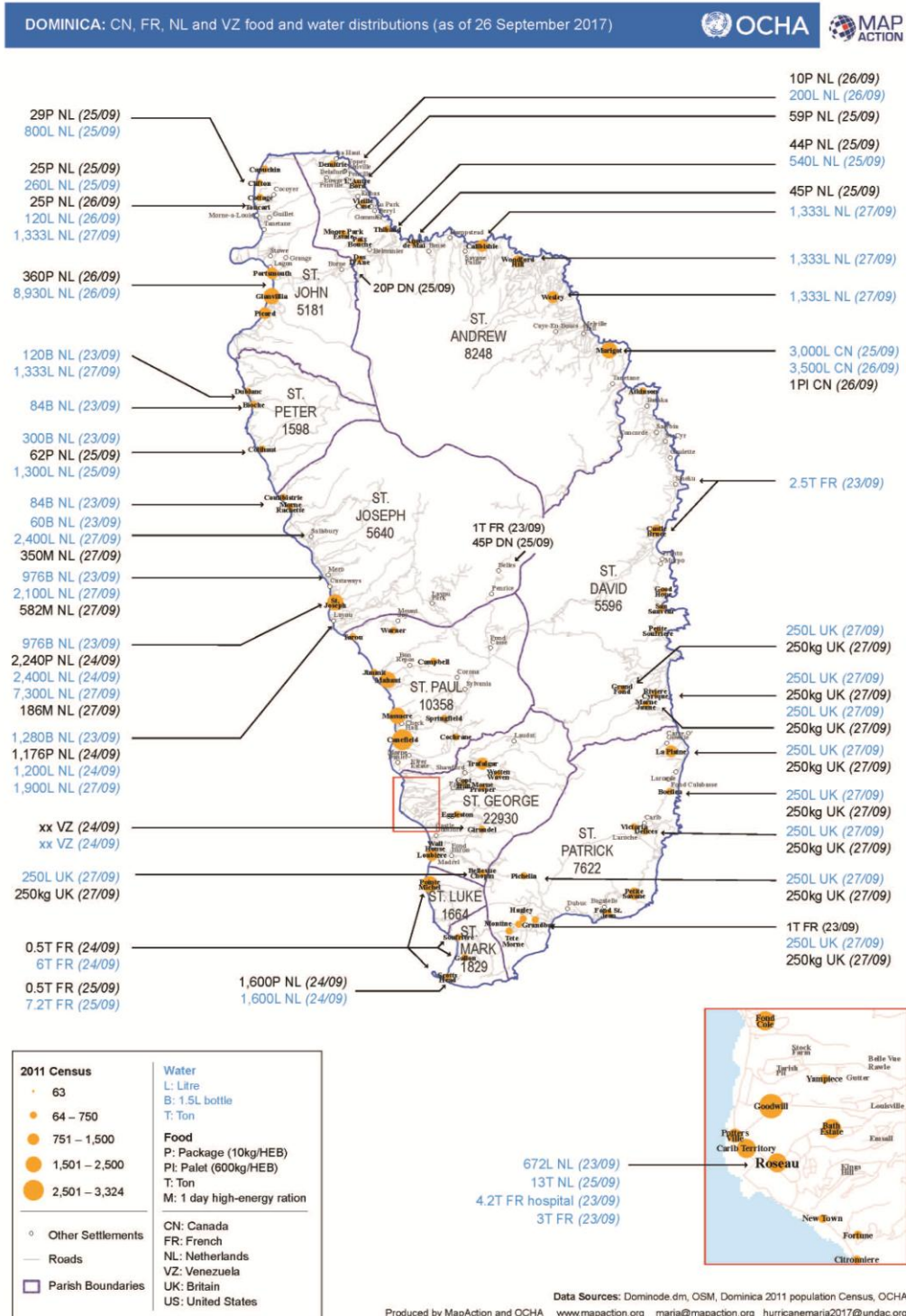


Tarpaulins distributed

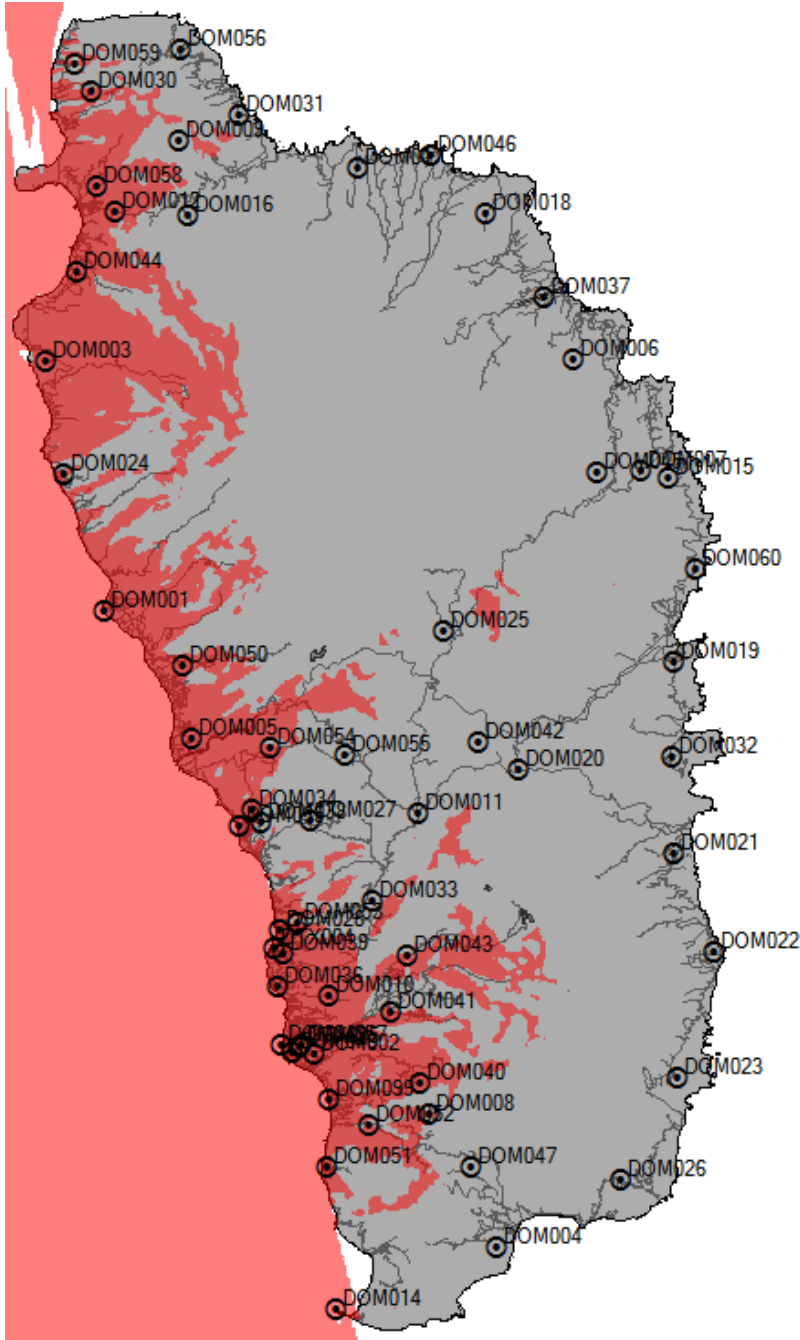
Further Updates...

- There are still challenges with access into areas such as Marigot to the airport and to the Kalinago areas
- Military support engaged for access in the southern areas
- Power restored to the hospital
- Local government authorities have commenced resuming work and have been manning the operations at the port
- The security situation in Dominica has begun to be stabilized.

DOMINICA: Water and Food Distribution as at September 26, 2017



Digicel's Coverage in Dominica as at September 28, 2017



REGIONAL RESPONSE ACTIONS

CDEMA Coordinating Unit

- CDEMA currently in Phase 3 of response – post disaster/emergency
- In collaboration with regional and international partners, deployed over 360 response personnel to provide support in the areas of search and rescue, damage assessment and needs analysis, emergency response coordination and assistance in relief operations (SAR, RNATs, CDAC, CDRU, Artisans)
- Continue to coordinate response with partners to coordinate relief distribution, water, debris clearing, WASH, shelter and shelteree concerns
- Partner countries have been assigned to sectors to facilitate aid getting to isolated environments. There has been increased coordination between national and international stakeholders
- RNATs completed assessments
- CDRU contingent will remain until October 5th 2017 to assist with relief distribution and provide support to safety and security with military and police
- CDEMA launched an online donation facility (September 15, 2017). Persons can make online donations (using credit cards) to the Hurricane Irma Relief campaign (visit www.cdema.org). Instructions are also available for those seeking to make donations via wire transfer
- RRM remains activated to provide support to the impacted countries. However gradual extraction of deployed teams will be instituted as per the Regional Coordination Plan (RCP) Standard Operating Procedures (SOPs)
- Continue to convene meetings of the RRM partners to provide and receive updates on the relief efforts to the impacted countries

Caribbean Development Bank (CDB)

- Bank working with WASCO to restart functions as quickly as possible due to the damage sustained; funding can be provided to assist

CARPHA

- Two (2) WASH experts from St. Lucia deployed to Dominica to assist with training on water purification and water testing capacities
- Medical supplies sent to Princess Margaret Hospital
- Building supplies also mobilized and sent to Dominica through external donors
- Participated in RNA in both the BVI and Dominica under the CDEMA mechanism
- Will work with the Ministry of Health (MOH), Dominica in issuing public health messages for use in shelters and the general public related to hygiene, sanitation and general health

DOMLEC

- Currently working on restoring power to the Financial Centre, police station and other buildings in the area, to be completed by Sunday October 1st 2017
- Working on Portsmouth Hospital to be completed by Sunday October 1st 2017
- Expecting 2 40ft containers with supplies for DOMLEC staff on Wednesday October 4th
- Another 3 containers leaving Florida tomorrow (September 29th) along with spare parts etc
- Poles and wires salvaged; possess 1 month of supplies of poles, wires etc

OECS Commission

- OECS Commission in conjunction with the Government of Saint Lucia have arranged for daily helicopter flights to Dominica (2-3 flights per day) with supplies funded by the Saint Lucian Government from a CDEMA approved staging post in Vieu Fort.
- A C-130 Venezuelan aircraft is due to arrive today to assist in cargo drops.
- The OECS Commission has raised much needed relief items for citizens of Dominica through the efforts of staff, family members and friends who have donated generously. A shipment of supplies left for Dominica this week where it has been distributed with the assistance of the Commission's Dominica office. The relief effort raised food, infant formula, comfort kits, cleaning materials and other essential items as part of a series of public and private initiatives taking place across the OECS involving private sector organisations such as Caribbean Metals and Massey Stores.

Government of Guyana

- Pledged USD 100,000 to support the relief efforts
- Donated over 85 tons of relief supplies to Dominica and Antigua (Sugar 25 tons, Rice 50 tons, Chow Mein and pasta 8 tons, Water 10 tons, Plantains 2 tons, Pumpkins 1 ton, Salted fish 300 lbs, Detergents 3040 lbs, BUISCUITS 3 tons, Soap 660lbs, Medical supplies 720 lbs, Tarpaulins 1 ton, Rope 100 lbs)

Government of Jamaica

- Committed the equivalent of US\$100k each to the redevelopment funds for Antigua and Barbuda and Dominica
- Committed a four-man technical and advisory support team to be led by the JDF's Lt. Colonel Jamie Ogilvie
- Deployed 120 soldiers from the Jamaica Defence Force (JDF) as part of the Disaster Assistance Response Team (DART) to assist with recovery efforts in Dominica

Government of St Kitts & Nevis

- Provided a six (6) man team to assist with safety and security in Dominica

Regional Security System (RSS)

- Security situation has been stabilized. Curfew remains in effect especially in the Roseau area and only authorized persons or members of the police/military allowed to traverse the roads outside curfew hours
- Command centre established in Roseau to facilitate relief distribution
- Roseau Port being secured by Trinidad and Tobago Defense Force
- Jamaica has sent 97 individuals into theatre yesterday: 308 security personnel in total are on the ground
- Thirty (30) artisans from Belize Defense force to arrive; Belize also supplying vessel to assist with relief supplies
- The RSS C26 aircraft will facilitate a flight on Saturday, September 30th

INTERNATIONAL INSTITUTIONS UPDATES

DFID/UK AID

- Commercial flight inbound to Antigua carrying hygiene kits, water purification, silver lined purification to go on to Dominica
- Additional 100 booked for flight into Melville Hall today providing timber water bladders and WASH supplies
- HMS Ocean provided humanitarian support to Dominica from 26-28/09/2017 in response to a request from the

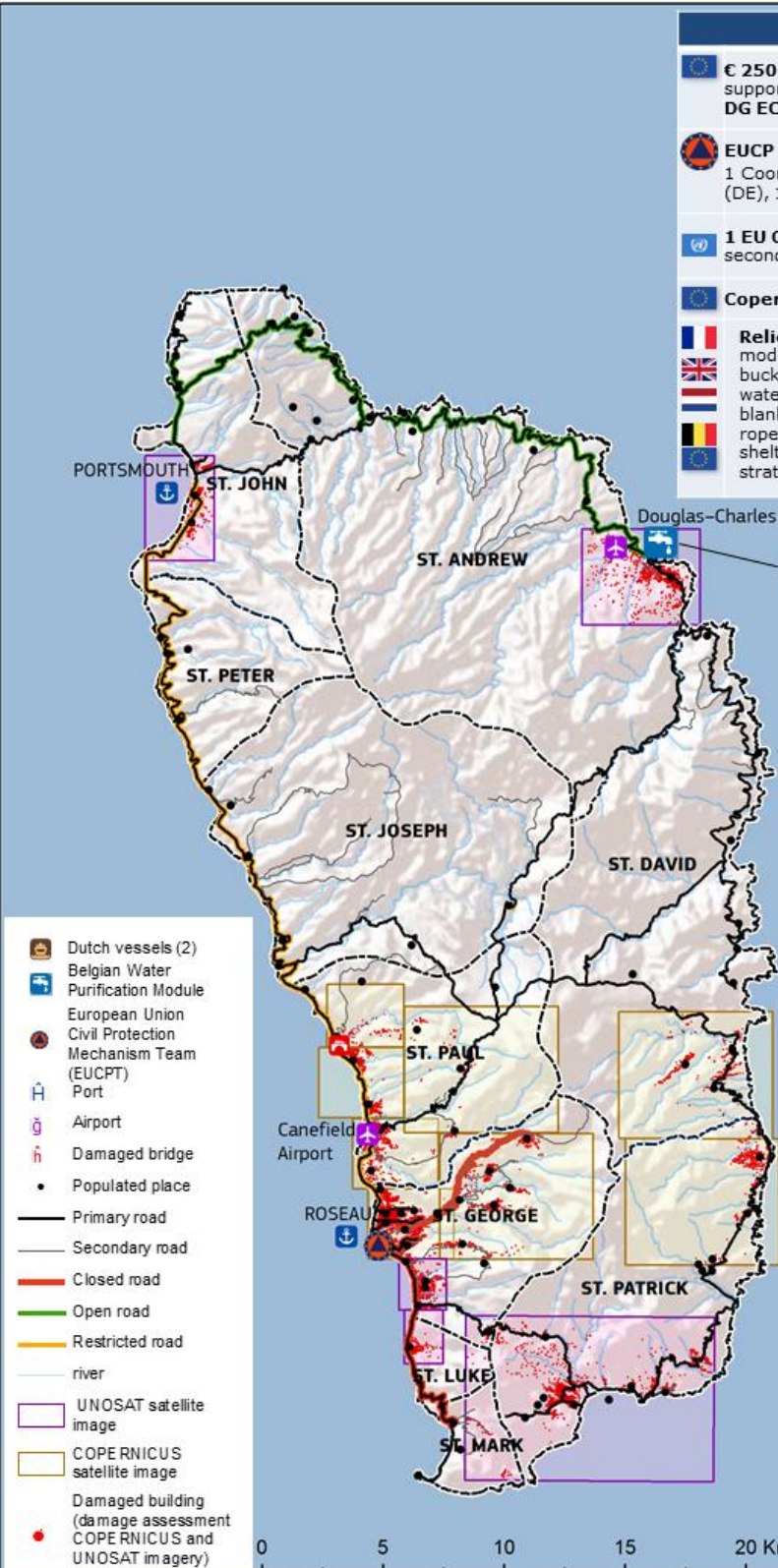
<p>Dominican Government/Caribbean Emergency Disaster Management Agency (CDEMA)</p> <ul style="list-style-type: none"> • It is due to arrive at Turks and Caicos Islands (TCI) on 1 October 2017 • RFA MOUNTS BAY is en route to Dominica, due to arrive 7pm 28/09 • HMS Ocean reached 12 communities in the south and east of the island, which had been cut off since the hurricane, airlifting delivery of relief supplies, assessing needs, clearing roads, carrying out urgent repairs of key facilities and transferring vulnerable persons. • Supplies delivered include water, food, medical supplies shelter kits, tents, tarpaulins; hygiene kits, solar Lights, water purification tablets, jerry cans, timber, vehicles etc. (amounts being confirmed)

UK Military
<ul style="list-style-type: none"> • HMS Ocean delivered 110 metric tonnes of aid • Covered 8 helicopter landing sites with predominantly food and water • Mount Bay on the way to provide support. It has a single helicopter to help extract others and also prepared to provide aid

Canadian Military
<ul style="list-style-type: none"> • Continue working with British • Facilitating relief distribution in the North Eastern section

European Union
Regional
<ul style="list-style-type: none"> • 2 M Euros first assigned to support response efforts in the region • 250.000 offers from Belgium, UK and France have been accepted by Dominica Authorities. Belgium foreseen to arrive in Dominica with Water Purification Module (15 pax) on September 27 • A EUCP team (3 experts + ERCC Liaison Officer) arrived on September 27 • 8 Copernicus maps showing the damage in Roseau and Canefield produced • Additionally, UK has offered more water purification cubes, aqua tabs, buckets, and 1 filtration system assigned to Dominica for logistics and food assistance. • 1 ECHO staff deployed to Dominica.
ECHO
<ul style="list-style-type: none"> • Water purification module arrived in Dominica yesterday which can prod. 80,000 liters per day. • Going to be placed in the East of the island based on discussions

Emergency Response Coordination Centre (ERCC) | DG ECHO Daily Map | 28/09/2017
Dominica - TC MARIA: EU Response

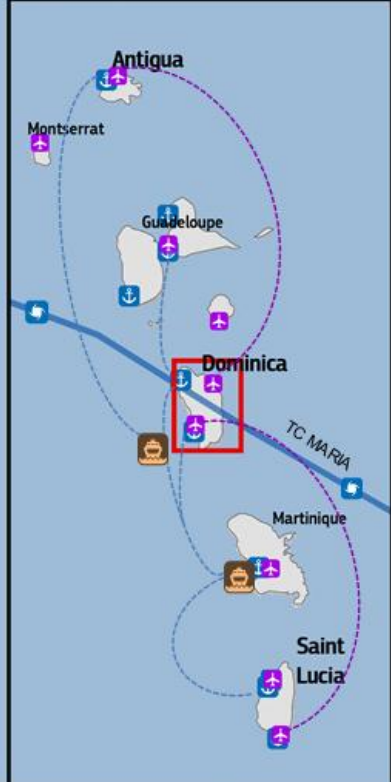


EU RESPONSE

- € 250 000 humanitarian assistance (for logistic support and food assistance)
DG ECHO Office: 1 Humanitarian expert deployed
- EUCP Team (26/09 - 15/10):** Team Leader (NO), 1 Coordination/operation expert (FR), 1 WASH expert (DE), 1 Logistics Expert (SE), 1 ERCC Liaison Officer.
- 1 EU CP expert** on disaster waste management (RO) seconded to **UNDAC**
- Copernicus EMS activated and 8 maps produced**
- Relief assistance EUCPM:** 1 Water purification module, water purification cubes, aquatabs, buckets, Silverline water filtration system, UNICEF water bladders, medical supplies kits, hygiene kits, blankets, tents, kitchen sets, boxes of rations, ropes rolls, tarpaulins, gloves, chain saws, picks, shelter kits, lumber, solar lights and 2 vessels for strategic sea transportation.

B-Fast Water purification module
 16 pax
 80 000l/24h

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 Sources: COPERNICUS, DG ECHO, Esri, GISOD, LogCluster, NOAA, UNOSAT



Global Affairs Canada (GAC)

- Air-lift water, food and aid supplies into Marigot for distribution by community and government officials;
- Continue to clear the roadway leading to the community cistern; and
- Clear debris from the local school in order to enable its return to operation.
- HMCS St John's continues to operate off the NE coast of Dominica conducting humanitarian assistance operations in the vicinity of Marigot. On Monday, September 25 efforts were concentrated on continuing operations ashore and embarking/transporting relief supplies from NGOs that are operating out of Roseau. On Tuesday, September 26 efforts were concentrated on continuing operations ashore and embarking/transporting relief supplies from NGOs that are operating out of Roseau.
- On Wednesday, September 27, HMCS St John's airlifted 2500 liters of water and 600 kilograms of food into the community; cleared 500 meters of roadway of heavy brush and trees; and embarked 23,500 pounds of food and relief supplies to be distributed by the Marigot Organization for Relief, Recovery and Reconstruction. Two Teams (28 personnel) were dispatched ashore by boat to provide assistance. These included an engineering team and a mobile work party with chain saws and machetes.
- On Tuesday, September 26, STJ - delivered 2500 liters of water and 600 kilograms of food to the community; disembarked crews to Marigot and commenced debris clearing of the road leading to the main water tank for the town, and readied a helicopter landing zone for delivery of food aid. Crew members also proceeded to Portsmouth with the regional councillors from Marigot to ascertain the nature of an expected shipment of relief aid into that port from St. Lucia and determine the transport plan for those stores to Marigot; Embark pallets of WFP food from Roseau and stores from Portsmouth. The focus for the near term is on water and food provision, followed by the clearing of debris to allow the community to restore their water supply; Cleared 500 meters of roadway that led to the community cistern and main water source; and Blackhorse conducted 18 helicopter lifts of materials and 8 passenger transfers, delivering water & food into Marigot, and enabled the embarkation of 23,500 lbs of food and aid supplies from WFP and US AID. This included:
 - 1200 collapsible water jugs (2.5 gallon);
 - 400 hygiene kits;
 - 60 pot and pan sets;
 - 480 wool blankets; and
 - 232 cases of High Energy Biscuits (100 per case).
- Canadian Air Force are assisting with airlift of 120 JDF personnel into Melville Hall airport.

IFRC

ST.KITTS AND NEVIS:

- Assessments were conducted by St. Kitts and Nevis Red Cross volunteers and IFRC Surge Team in the northern part of St Kitts (Districts 6, 7 and 8) to define the level of damage of the houses and address the needs of the population
- St. Kitts and Nevis Red Cross is coordinating with NEMA to support the distribution of 100 rolls of plastic sheeting in St Kitts and Nevis donated by USIAD/OFDA.
- Prepositioned Non-Food-Items (NFI) from the National Society distributed to the population, to date, is as follows:

ITEM	No. distributed to the affected population								TOTAL distributed
	Molineaux	St Pauls	Sandy Point	Keys	Cayon	Verchilds	Basseterre	Nevis	
Blanket	9	18	1	4	11	2	45	40	130
Hygienic parcel								12	12

Kitchen sets								6	6
Tarpaulins	139	35	30	10	10	10	57	55	346

- St. Kitts and Nevis Red Cross will distribute additional Hygiene kits, Kitchen sets and blankets to the population based on the assessments results.

ANTIGUA AND BARBUDA:

- The Canadian Red Cross and the International Federation of Red Cross and Red Crescent (IFRC) have donated US \$50,000 worth of medical equipment to the Hannah Thomas Hospital in Barbuda. The equipment includes a Complete Consultation room as well as a Full Emergency Room.
- Registration:
 - A total of 461 households have been registered (approximately 1482 persons) as of September 27th, 2017. The Registration deadline has been extended to facilitate additional registrations.
 - The Antigua and Barbuda Red Cross continues to aim to assist the most vulnerable persons
 - The Antigua and Barbuda Red Cross is working very closely with the Barbuda Council to validate the registration list. A working group session was held with 8 members of the Barbuda community (Council representatives and Volunteers of the Barbuda Branch of the Headquarters of the Antigua and Barbuda Red Cross) to validate the household sizes and review for duplicate registrations.
- Cash Transfer Program (CTP):
 - The Antigua and Barbuda Red Cross is in receipt of 500 debit cards for the CTP. Distribution of cards will commence on Saturday, 30th September
 - The program was presented to the Government of Antigua and Barbuda and fully endorsed
- Distribution of NFIs:
 - The Antigua and Barbuda Red Cross coordinated it first distribution on Saturday 23rd September
 - Distributions were in 3 locations: National Technical Training Centre (NTTC) - 14 households; Stadium - 44 households; and the National Society's Headquarters (specifically for persons staying outside of the shelters – 238. A total of 298 HH were reached. Details are reflected below:

Description	Place		
	Antigua and Barbuda Red Cross Headquarters	NTTC Shelter	Stadium Shelter
Cases of water	669	55	139
Hygiene Kits	279	18	47
Kitchen Sets	237	n/a	n/a
Number of families	238	16	44

An additional 200 hygiene kits and kitchen sets (stock from USAID/OFDA) were requested from NODS and distributed.

DOMINICA:

- 25 September
 - Health assessment of St. Joseph Health District and the RFA Hospital + Primary Health Center in Portsmouth conducted by by Dr. Sandra Allaire.
 - Street-level imagery assessment of main road from Roseau to Portsmouth and then most of the way to Marigot published to <https://www.mapillary.com/app>
- 26 September
 - Restoring Family Links (RFL) delegate in country beginning to help address casework related to

Hurricane Maria.

- 27 September
 - IFRC Surge staff supporting the Dominica Red Cross in county reaches 21: Basecamp, Communications, Communications A/V, Shelter, Finance, Field leadership (x2), Health, IM, IT/T (x2), Logistics (x5), CDEMA/partners liaison, Relief, Cash Transfer Programming, Restoring Family Links, WASH
 - IFRC Surge Logistics staff member stationed to Douglas-Charles airport.
 - Water treatment equipment setup in Check Hall. Capacity of 5,000 litres every day. Distribution slated to commence on September 28th via tap stand. Hygiene messages will be incorporated.
 - Health assessment of Belles and La Plaine in coordination with Ministry of Health conducted by Dr. Sandra Allaire with Dr. Shalauddin Ahmed.
 - Distribution of 326 tarpaulins to 283 households in Roseau; and food to 26 households.
 - Dominica Red Cross supported USAID in helicopter distributions of approximately 80 kitchen sets, 200 hygiene kits, blankets, collapsible jerry cans in Grand Bay.
 - Dominica RC supported USAID in helicopter distribution in Bagatelle of approx. 40 kitchen sets, 100 hygiene kits, blankets, collapsible jerry cans
 -
- 28 September:
 - A CTP/Shelter/Relief assessment team travelling north to Portsmouth
 - Distribution of 338 tarpaulins to 338 households in Roseau, and 10 tarpaulins to the police.

USAID/OFDA

- The DART and other humanitarian actors are working to determine appropriate solutions to ensure access to safe drinking water for Dominica residents.
- Two flights carrying USAID/OFDA emergency relief commodities reached Dominica on September 26 and 27. The flights transported 2,400 water containers, 1,600 blankets, 1,000 hygiene kits, and 400 rolls of plastic sheeting from USAID/OFDA stockpiles in Miami, Florida, to the hard-hit Caribbean island. The plastic sheeting is expected to benefit an estimated 20,000 hurricane-affected people, allowing them to commence shelter repairs, while the other relief items are each sufficient to assist approximately 4,000 to 5,000 beneficiaries.
- Contributed its emergency relief commodities pre-positioned in the region toward the humanitarian response on Dominica. On September 26, in coordination with the Government of the Commonwealth of Dominica (GoCD) and other responders, USAID/OFDA water containers, hygiene kits, and kitchen sets were distributed to 13 shelters in Roseau and neighboring urban areas in St. George and St. Paul parishes. In total, the day's distributions included 900 water containers for 2,250 people, 400 hygiene kits for 2,000 people, and 105 kitchen sets for 525 people. USAID/OFDA originally delivered the relief items to the island of Antigua to meet the immediate needs of disaster-affected people on Antigua and Barbuda after Hurricane Irma and to replenish stockpiles for future disasters. Following Hurricane Maria's destruction, the pre-positioned USAID/OFDA supplies became available for use on Dominica.
- With \$100,000 in initial USAID/OFDA funding, DRCS plans to procure and distribute additional relief items, including solar lamps, mattresses, and bedding, to address the needs of an estimated 5,000 hurricane-affected households on Dominica. DRCS will also contribute to community clean-up efforts, register beneficiaries for distributions, and conduct post-distribution evaluations.
- Red cross assisted with delivery to the two assigned villages yesterday
- Water and sanitation advisor dividing
- 20 chainsaws into Dominica through RSS

UNITED NATIONS (UN) AGENCIES

UN REGIONAL
<ul style="list-style-type: none"> • Early Recovery Advisor deployed to provide technical assistance to the Government on the recovery process • Based on a direct request from the Government a debris and waste management specialist has been sourced and will provide direct technical support to the Government • Meeting with PM and Ambassador Henderson Financial Secretary to get clear indication of what is needed • Cash for work programme suggested; framework for this requested; assistance with this to be given in the coming days • Review of protocol for delivery of aid to ensure equity • Discussion on vouchers for food- WFP to bring in experts to work on this • Human help to coordinate logistics and deliveries- UNDP expert placed to assist • Assistance with Farmers and seeds being grated through WFAO • Start up funding to be provided • OCHA crisis management expert to be deployed next week • DFID 5.5 Billion pounds fully coordinated; flash appeal to come out tomorrow afternoon; 25-30 million dollars from the UN side • Flash team to be utilized for three months • Email addresses for UN updates hurricanemaria2017@undac.com

Food and Agriculture Organization Regional
<ul style="list-style-type: none"> • Supporting CDEMA in conducting a rapid and damage needs assessment in Dominica with special focus on the agricultural and fishery sector. • Providing support to the Ministry of Agriculture in Antigua and Barbuda as well as ST. Kitts and Nevis in conducting post-disaster needs assessments in order to quantify the level of damage and loss experienced by these countries thus prioritize needs and interventions to restore the agriculture sector and sub-sectors including crop and livestock production as well as fishery and forestry. • Mobilizing internal funds (USD 100K) to assist the recovery of the agriculture sector in Dominica.

International Organization for Migration
<ul style="list-style-type: none"> • A proposal will be developed to covers roofing as well as training about installation and the type of material to be used combined with a large communication and outreach strategy. • A market assessment is ongoing. There are five large construction importation companies on the island (Nassif, EH Charles, Astaphans, M&R, and Rudolph Thomas and Sons) • Four (4) IOM surge team members are currently in Dominica: the emergency response manager, shelter specialist, senior regional emergency specialist and a logistician • Coordination with CDEMA, Dominican authorities and shelter actors ongoing to ensure a harmonised approach

PAHO
<ul style="list-style-type: none"> • Partnering with rescue global to transport personnel and supplies to Dominica • WASCO returned water supply to the hospital • Water quality testing still being conducted and as such the Dutch will provide water for medical purposes and

- WASCO water for non essential purposes
- 600 doses of tetanus inoculums to be delivered because of the increase in stabbing incidences and persons walking over dangerous surfaces with nails etc.
 - Blood bank cross match facilities established; however cannot harvest blood/collect donations
 - Barbados blood bank contributing blood to leave tomorrow on the Rescue Global
 - Retired PS in the Ministry of Health, Tennyson Springer also travelling on the Rescue Global flight in the morning to start acting as the hospital administrator
 - 3 vehicles currently on the ground to help with the distribution of water filled by military vessels
 - Map Action updating the situation regarding health centres as not much information currently available
 - Not much health information in shelters available
 - No medical teams visiting shelters
 - Hoping to do distribution of medical sets to the South East corridor, however teams were constrained because of rain
 - Update on persons taken to the Dominican Republic via MedEvac- 7 discharged and waiting for airlift back to Dominica -1 dead – 8 still in hospital (7 stable 1 in ICU with severe injuries)
 - Belgium supply plane with water purification unit in Melville Hall. WASCO setting this up to establish water supply in the Marigot area
 - Several organizations with water units are being coordinated for mobile treatment for areas with access by road at least
 - CRS working across the Southern areas with the emergency shelters
 - There is limited accessibility in the areas of La Blure Pt. Michelle, Soufriere and Grande Bay
 - Many houses still have toilets intact, allowing for flush by bucket; however breakages in sewage systems have caused contamination of the rivers. The rivers have also been polluted as a result of persons using them for clothes washing and personal hygiene (Coastal areas especially)
 - Persons started to get rashes on their skin from bathing in polluted rivers, and as such PAHO have been communicating (by megaphone and through radio) the need to boil water before use and has discouraged the use of the rivers for bathing
 - No reports of vector borne diseases noted yet, such as dengue, however it is likely and the situation will be monitored.
 - It is also expected that deforestation will cause rodents to move out of the deforested area, therefore this is an area of concern
 - 98% of doctors are reporting to work and 80% of nurses reporting to work. This is almost 100% increase from 2 days ago. This shows that the system is slowly getting into function

- | UN Women |
|--|
| <ul style="list-style-type: none"> • Relay of a first shipment of 250 dignity kits to the affected families. The kits are a collaborative effort of UN Women and UNFPA Caribbean offices. |

- | WFP |
|---|
| Dominica |
| <p>Logistics</p> <ul style="list-style-type: none"> • 1 Mobile Storage Unit (32x10), 22 tarp rolls, and 3 plastic tanks for fuel have arrived in Dominica. Technical specialists have also arrived for the erection of the MSUs. One warehouse at the port has been cleared and its currently storing |

- relief supplies from multiple stakeholders.
 - Ongoing consolidation of cargo on behalf of the humanitarian community on board the Dutch Navy vessel Pellikan for sea transport from Antigua to Dominica.
 - As of 27 September, WFP has also mobilised and made available free-to-user a helicopter lift capacity of 1.5 mt that will be used to support assessments and distribution activities to hard to reach locations
- Food Security**
- 7 mt of High Energy Biscuits (694 cartons) have arrived in Dominica for onward distribution.

Logistics Sector's latest Hurricane Irma and Maria Concept of Operations Map - WFP

