

MAJOR HURRICANE DORIAN

SITUATION REPORT No. 11

AS OF 8:00 PM ON SEPTEMBER 10, 2019

SITUATION

Major Hurricane Dorian, the 1st named hurricane of the 2019 Atlantic Hurricane season, formed on Saturday August 24, 2019. At the peak of strength, Dorian, a Category 5 hurricane had sustained winds of 185 mph with gusts of up to 220 mph. Estimated rainfall was 12-15 inches, and storm surge 18-23 feet above sea level.

As a Tropical Storm, Dorian placed four (4) CDEMA Participating States - Barbados, St. Vincent and the Grenadines, Saint Lucia and Dominica - under Tropical Storm Warning and one (1) CDEMA Participating State - British Virgin Islands under Hurricane Warning. The impacts on these five (5) states were negligible to minimal. Hurricane Dorian significantly impacted the north-western Bahamas islands of Abaco and Grand Bahama and the surrounding Cayes.

Hurricane Dorian made several records and is historic in many ways. It is the strongest Atlantic hurricane documented to directly impact a land mass since records began, tying it with the Labor Day Hurricane of 1935. Hurricane Dorian affected the north-western Bahamas islands for an approximate total of 68 hours, with the southern eye-wall planted over Grand Bahama for about 30 hours. The unpredictability and unprecedented nature of this hurricane is also record-making.

SNAPSHOT – IMPACT ON ABACO AND GRAND BAHAMA ISLANDS as of September 10, 2019









COORDINATION

- ➤ The response efforts have been geographically zoned to enhance coordination. The NEOC has identified the following zones:
 - > North, South and Central Abaco
 - > East and West Grand Bahama
 - New Providence Island is also being treated as a geographical zone due to the activities being undertaken
- ➤ NEMA, Bahamas requested a two personnel CARICOM Operational Support Team (COST) to assist with the coordination of the EOC in Abaco

TRANSPORTATION

Grand Bahama

- > The pavement evaluation on the Freeport runway is completed and the findings are being reviewed by the Civil Aviation Authority
- > The tower is now operational at the Freeport Airport and is currently running on generator power and a back-up two-way radio system

Abaco

> The Ministry of Public Works has prioritised the assessment of the damaged bridge on Abaco

EVACUATION

> Evacuation is ongoing as persons continue to arrive at the Odyssey airport up to today, 10th September 2019

SHELTER

- Nine (9) shelters have been activated in New Providence to receive evacuees from Abaco and Grand Bahama. A total of two thousand and forty three (2043) persons are reported to be in the shelters as of 9:00 a.m. today, September 10, 2019. The shelters were reported to be at full capacity
- > Some evacuees have sought shelter with family and friends on the other Bahamian family islands

RELIEF AND LOGISTICS

- The WFP deployed eight (8) mobile storage facilities on the ground in Abaco: Four (4) of the facilities have been set up at the Sea Port in Marsh Harbour; two (2) at the airport in Marsh Harbour and two (2) on stand-by on Grand Bahama, if required by the NEOC
- ➤ WFP will transport four (4) 45 KVA generators on a marine vessel tomorrow, 11th September 2019 to Abaco

COMMUNICATIONS

- ➤ There is significant progress on Abaco in the provision of WIFI access at the main government building, the sea port and airport in Marsh Harbour
- International partners were in discussion with the NEMA team to provide free WIFI access for shelter users on New Providence Island and there is also consideration for Grand Bahama

PUBLIC WORKS AND ENGINEERING

- > The assessment of housing and government buildings has been prioritised in Abaco
- > Two (2) additional rapid assessment teams were deployed to Central Pines and Spring City in Abaco;
- > The road from Marsh Harbour to Treasure Cay was now clear and passable
- ➤ Bahamas Power and Light Company advised that initial equipment for restoration arrived on Abaco (poles and pressure digger). Additional equipment is scheduled to arrive on Wednesday 11th September with additional man power arriving on Thursday 12th September to address these issues
- On Walkers Cay and Grand Cay, the systems were not as extensively damaged and it was expected that power should be restored soon

HEALTH AND MEDICAL SERVICES

- > One field hospital has been set-up in Coopers Town
- > US Coast Guard was still available to conduct medical evacuation (MEDIVAC) in emergency situations
- > The Mission of Hope (NGO) is providing medical related support in Marsh Harbour
- > The MoH is undertaking a rotation of health personnel on the ground starting today 10th September 2019

HAZARDOUS MATERIALS

- > The Ministry of Environment conducted an assessment of the oil spill from the oil refinery and they advised that the oil spill had left no evidence of oil on the coast line. Most of the impact was done to the northern and eastern sections of the facility
- > Two (2) of the domes were damaged, but the tanks were not compromised

MULTI-NATIONAL CARIBBEAN COORDINATION CELL (MNCCC)

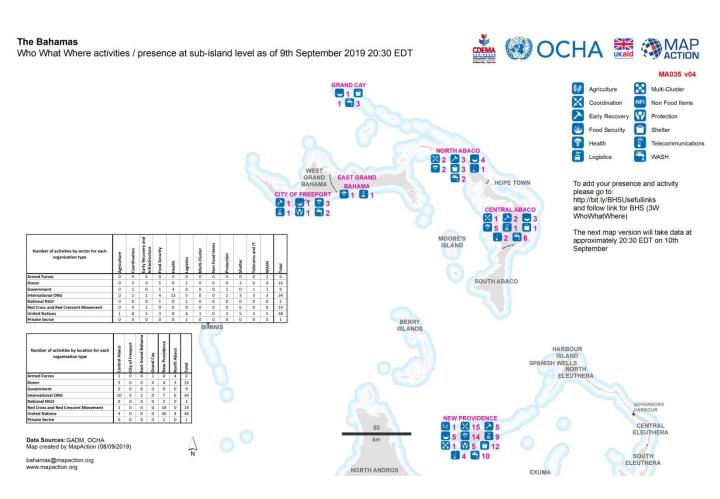
- ➤ The RFA Mounts Bay departs tonight (10th September 2019) after discharging all the relief items onboard in North Abaco
- ➤ The Dutch Vessel is scheduled to arrive tomorrow morning (11th September 2019). They will undertake full tasking on Friday and their focus will be on the Marsh Harbour area
- ➤ The Trinidad and Tobago Defence Force full contingent (100 soldiers) are on the ground and commanded by Colonel Gomez (50 already stationed in Grand Bahama and the other 50 will be transported today, 10th September 2019)
- > The full Jamaica Defence Force contingent of 120 soldiers have arrived
- > The Government of the Bahamas has assigned Col. John Cargill as Administrator for military in Marsh Harbour

INTERNATIONAL ASSISTANCE

- > The Bahamas Customs has advised that all airports on Grand Bahama were open but not for commercial flights
- ➤ NEMA established an email address: nemadonations@bahamas.gov.bs where offers for donations are to be channeled

Situational Awareness

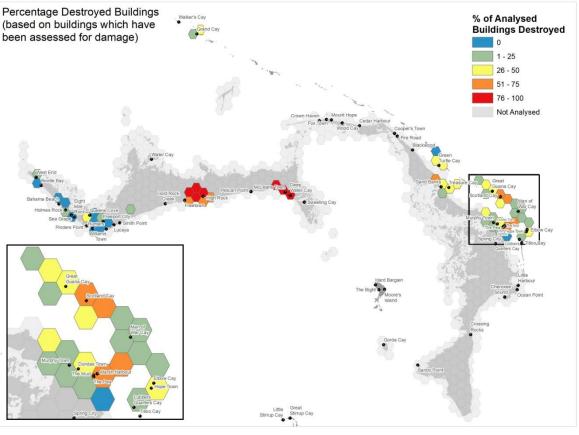
3 Ws Presence at sub-island level as of 9th September 2019

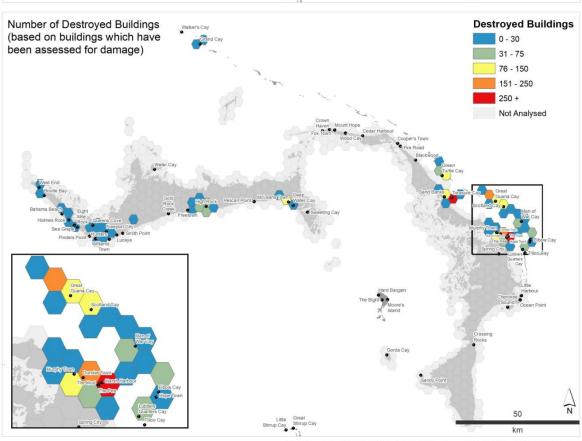


The Bahamas:

Count and percentage of buildings destroyed across a 10km² hexagonal grid of Grand Bahama and Abaco, based on Copernicus data analysed on 07/09/2019







Caribbean Disaster Emergency Management Agency (CDEMA) Actions

- ➤ CDEMA co-facilitated along with CARICOM IMPACS the 2nd coordination meeting of the regional Chiefs of Defense Staff to coordinate the tasking of regional militaries in support of the response operations in The Bahamas.
- ➤ The CDEMA team visited Treasure Cay and Marsh Harbour today, 10th September 2019 to assess on the ground coordination in those areas on behalf of the NEOC. They also investigated the potential for a Legacy Project in Marsh Harbour. The flight was organised by the WFP.
- The NEOC, Nassau expressed a need for thirty (30) Police Officers to support the security operations of the Royal Bahamas Police Force. This request has been shared with the Regional Security System (RSS) for further consideration.
- Further to the request from the National Disaster Coordinator of The Bahamas on September 8, 2019, for additional support with assessments, preparations are ongoing to facilitate the deployment of two (2) CARICOM Disaster Assessment and Coordination (CDAC) Teams to Grand Bahama to assist with detailed initial damage and human needs assessments (IDHNA). They will be accompanied by a team of specialists in the following sectors; Agriculture, Tourism, Education, and Health to carry out detailed damage sector assessments (DDSA). This is in-keeping with phases three (3) and four (4) of the Damage Assessment and Needs Analysis (DANA) Continuum and will culminate with the Damage and Loss Assessment (DaLA) on September 28, 2019.
- ➤ CDEMA and the UN Resident Coordinators for Barbados and Jamaica, has convened as co-chair, the fifteenth (15th) meeting of the Regional Response Mechanism Partners Caribbean Development Partners Group Disaster Management (CDPG DM), at 1:00 PM today, September 9, 2019.
- Further to discussions with the NEOC in The Bahamas, a decision was taken to stand down the CARICOM Disaster Relief Unit (CDRU).
- ➤ Cash contributions have been requested from all eighteen (18) CDEMA Participating States to support emergency relief in the Bahamas. The Summary of Support (pledged/provided) from CDEMA Participating States and Regional Institutions is on pages 7-8.
- ➤ To date, the CDEMA Regional Coordination Centre has prepared and disseminated five (5) Information Notes and eleven (11) Situation Reports, one (1) Savingram, and one (1) Press Release on Tropical Cyclone Dorian.
- Information updates may be viewed on CDEMA's website <u>www.cdema.org</u>.

SUMMARY OF SUPPORT FROM CDEMA PARTICIPATING STATES AND REGIONAL Page 7 INSTITUIONS	
CDEMA Participating States	
Antiqua and Barbuda	1. Two (2) technical personnal for Danid Needs Assessment
Allugua aliu barbuua	• Two (2) technical personnel for Rapid Needs Assessment Team (RNAT) - expertise in Disaster Risk Management and
	Port Assessment
Barbados	Organised a 'Mediathon' to raise funds to provide emergency
Buibados	response support for the people of the Bahamas
	Search and Rescue (SAR) team on stand-by
Belize	Pledged US\$100,000 to assist in recovery efforts
	Belize Electricity Company on stand-by to make available
	personnel to assist with the restoration of electricity
	• Prepared to send a contingent from The Belize Defence Force
	to assist with security
Dominica	• Pledged US \$100,000 towards recovery in The Bahamas
	• Placed on STANDBY fifteen (15) police officers
	• Identified eight (8) Fire Officers to assist in the recovery
	process
	• Identified a team of six (6) from the Dominica Water and Sewage Company (DOWASCO) to assist in the immediate
	restoration of water supply system
	• Providing twenty (20) health professionals to assist in the
	provision of health services
	Search and Rescue (SAR) team on stand-by
Grenada	• Pledged US \$100,000
Guyana	Oil Refinery Specialist on stand-by
Jamaica	• Sent in 3-member advance team led by Col. Sterling who is
	stationed in Nassau and the other two members in Abaco
	Advanced the first contingent of the 120 member JDF team
	• Two (2) technical personnel for Rapid Needs Assessment
	Team (RNAT) expertise in Coastal Zone Management and Oil
	Refinery Assessment
Saint Lucia	Pledged US 100,000 dollars towards recovery
	NEMO Saint Lucia has activated disaster relief accounts at all
	banks and has made an appeal to the public for donations
Suriname	Pledged relief items to be shipped to The Bahamas Oil Refinent Specialist on stand by
Trinidad and Tobago	 Oil Refinery Specialist on stand-by 100 soldiers were deployed September 8, 2019 from the
	Trinidad and Tobago Defence Force
	• The team comprise engineers, medics and regular security
	personnel. The team is being deployed with their own supplies
	• Seven (7) technical persons from T&TEC to assist in the
	restoration of power
	• Pledged US 500,000 dollars to pay for expenses such as
	medical supplies
T 1 10: T1 1	Oil Refinery Specialist on stand-by
Turks and Caicos Islands	• Four (4) technical personnel for Rapid Needs Assessment
	Team (RNAT) - Disaster Risk Management, Information
Virgin Islands	Management, and Port Assessment Specialist
Virgin Islands	 Pledged \$100, 000 to assist recovery efforts in The Bahamas One (1) technical personnel for Rapid Needs Assessment Team
	(RNAT) - expertise in Disaster Risk Management
	(Marti) experiese in Disuster Martingerhent

Regional Institutions	
	Pledged immigration support in event of displacement
IMPACS) Caribbean Centre for Renewable	Pledged support for restoration of power
Energy and Energy Efficiency (CCREEE	Pledged support for restoration of electricity
Corporation (CARILEC)	
Caribbean Association of Fire Chiefs (CAFC)	
Caribbean Public Health Agency (CARPHA)	• Provided support to the RNAT (WASH expert) • Will be on stand-by to provide technical support re: vector control, food safety and environmental safety, and risk communication
Caribbean Disaster Emergency Management Agency (CDEMA)	 Two (2) technical personnel for Rapid Needs Assessment Team (RNAT) - expertise in Disaster Risk Management (Lead) and Logistics Personnel to support early recovery planning and EOC
	management
Caribbean Development Bank (CDB)	• Disbursed USD\$200,000 Emergency Response Grant to NEMA, The Bahamas
Caribbean Institute of Meteorology and Hydrology (CIMH)	• Provided initial special weather interpretation of the current and forecasted tropical weather affecting the Caribbean Region for CDEMA's operation planning
Regional Security System (RSS)	 Placed the CDRU on alert Pledged support to conduct reconnaissance and damage assessment missions, if necessary RSS Security Chiefs advised to place a 15-man squad on alert for possible deployment
University of the West Indies (UWI)	Psyco-social support and technical support in early recovery

List of actions being undertaken by RRM Partners from Sept.5, 2019



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CARICOM

· Offering support with the identification of persons in impacted islands

DFID UK

Deployed a surge team to assist inter-agency coordination

ECHO

· Activated the European Civil Protection Mechanism and Emergency Mapping Services

Global Affairs Canada

- Canadian Disaster Assessment Team (CDAT) deployed to Nassau to assess any further response from Canada. This team is returning to Canada on Tuesday 10th September
- Supported mapping, GIS services, disaster and needs assessments and EOC operations

IFRC

- Providing continuous coordination with CDEMA and NEMA; 2 Bahamas Red Cross volunteers joined RNAT in Abaco and Grand Bahama
- IFRC team to set up base camp and warehouse in Abaco and will conduct needs assessment and distribution

PAHO

- Coordinating meetings of the Ministry of Health (MoH) and Public Health Authority with the Dutch Army.
- · Collaboration with MoH to disseminate key messages on vector and water borne diseases

UNOCHA

 Sent a team to support CDEMA and NEMA in information management, coordination, advocacy and humanitarian financing; supporting a small UNDAC team

UNDP

- Providing support in debris removal, waste management and strategic communications to the Ministry of Environment & Housing
- Providing support to the Ministry of Public Works to conduct first building damage assessment using BDA online tool
- Two (2) members of Engineers Without Borders will join UNDP team as of 10 Sept. 2019

UNRCO - Jamaica

Proposed support to the Government of the Bahamas as co-chairs to the Emergency Support Functions:

- Transportation Ministry of Public Works, WFP
- Communication Ministry of Public Works, WFP
- Relief supplies NEMA, IOM, WFP
- Health Care: Ministry of Health, PAHO
- USAR Royal Bahamas Defence Force
- Food NEMA, WFP
- · Civil Military Coordination Royal Bahamas Defence Force, UN OCHA
- WASH Water and Sewage Corporation of Bahamas, PAHO, UNICEF
- · Child Protection and GBV UNICEF, UNFPA
- Education Ministry of Education Bahamas, UNICEF
- Livelihood UNDP, UNFPA

WFP

 WFP supporting NEMA/CDEMA in logistics supply chain coordination. Next WFP vessel to be sent to Abaco with relief supplies on 11 September

WHO

• Deployed assessment experts – agriculture, forestry, and fisheries.

ECHO

• Pledged €500,000 from the Acute Large Emergency Response Tool (ALERT) to respond to the first needs caused by the Hurricane Dorian in the Bahamas. The priority sectors to be covered by the funding are: shelter and household items, water, sanitation and hygiene (WASH), livelihoods and basic needs.

Global Affairs Canada

• CAD\$500,000 in emergency assistance being channeled through the Canadian Red Cross to support emergency shelter and relief items.

SWISS Government

Allocated 500,000 Swiss Francs to IFRC and 200,000 to WFP

UK DFID

Support currently approved for deployment of CDEMA Response Teams of up to £150,000

UNDP

Secured USD\$200,000 for coordination of recovery efforts

UNOCHA

 UN Central Emergency Response Fund will provide an immediate US\$ 1 million for urgent life saving activities

USAID/OFDA

Pledged US\$2.8 million towards recovery efforts



FOOD & NUTRITION

CARPHA

Providing post flooding food safety guidance

Hands for Hunger (national NGO)

Offered to assist with distribution of food

UK DFID

Distributed 3000 ration packs

USAID/OFDA

- Partnered with The Bahamas Red Cross Society (BRCS) to distribute relief commodities across Abaco on September 7.
- With support from Food for Peace (FFP) and the UN World Food Program (WFP) procured and transported approximately 14,000 individual ready-to-eat meals from Miami, Florida, to The Bahamas on September 6, 2019 and began distribution in Abaco on September 8, 2019.

WFP

- Began MRE distribution to affected communities in Abaco Island, with the support of partners Samaritan's Purse and the Bahamas Red Cross.
- On 08 September, WFP distributed 150 MREs (75 people) in Dundas Town, Abaco Island. On 09 September, WFP provided 1,600 MREs (800 people) to the Administrative Office of Cooper's Town, for affected people in the Little Abaco settlements of Mount Hope, Cedar Harbour, Wood Cay, Fox Town, and Crown Haven. An additional 350 MREs (175 people) are destined for Little Abaco. WFP continues to assist affected areas in Abaco and Grand Bahama Islands.



LOGISTICS

Global Affairs Canada

- Transport of Jamaica Defense Force into The Bahamas by C-130
- Provided one airport specialist for rapid needs assessment

PAHO

Assisted in the set up of the Logistics Support System (LSS)

Rescue Global

- Deployed 24 Commando personnel onboard RFA Mounts Bay to assist with clearing of roads and conduct assessments
- Provided helicopters and military liaison embed with Engineers and RFA Mounts Bay

UK DFID

- RFA Mounts Bay has been using helicopters and landing craft to distribute equipment and supplies
- British Forces from the MNTS have also supported body recovery, helped set up temporary morgue and distributed 60 additional body bags

USAID/OFDA

- Providing aircraft support to transport humanitarian personnel and supplies from Nassau to affected islands
- NORTHCOM transported more than 23 metric tons of supplies to Marsh Harbour on behalf of Samaritan's Purse
- NORTHCOM also facilitated four flights for the USAID-deployed SAR team to search and clear houses and
 distribute safe drinking water to affected communities. The day prior, NORTHCOM-supported flights
 transported more than 72 MT of relief commodities and 183 response personnel, including individuals from
 the GoB, NGOs, the UN, and the SAR team, as well as four SAR canines, to affected areas of Abaco and
 nearby cays for humanitarian assessments, commodity distributions, and SAR operations.
- The USCG also continues SAR efforts, rescuing 383 people to date from storm-affected areas of Abaco and Grand Bahama.

WFP

- Deployed staff to Abaco Island via helicopter and are conducting basic food security analyses across affected areas.
- Establishing an Emergency Operations Center (EOC)/ Logistics and supply chain hubs in Marsh Harbour with MSUs, VSATs, and generators. WFP will have 2 MSUs at the Port, and 2 MSUs at the Airport. Equipment is currently being set-up, and WFP remains on standby to deploy additional hubs as needed.
- Providing logistics coordination support to NEMA/ CDEMA, including arrangements for charter vessels, fuel, fork lifts, flat-bed trucks, transport assets, and last mile delivery, as needed.



AGRICULTURE

FAO

Currently undertaking assessments in forestry and fisheries sectors



SHELTER & NFI

IFRC

- · Deployed team to assist with sheltering
- Aid for 400 families were shipped to Abaco
- · Conducted assessment of shelter conditions in New Providence
- Distributed 1,200 Shelter toolkits (1 per family) 1,200 households; 4,100 blankets (4 per family) 1,025 households, 500 kitchen sets (1 per family) to 500 households; 800 tarpaulins (2 per family) 400 households all in New Providence Bahamas Red Cross Warehouse.

IOM

Mobilising and distributing non-food items (NFIs) including 1000 tarpaulins, solar lights, jerry-cans, hygiene
kits etc; developing a strategy and coordinating housing repairs; assessing the needs of displaced persons
and identifying shelter solutions; deployed and emergency coordinator

Mercy Corps

Distribution of solar lanterns with USB chargers for phones

UK DFID

Distributed over 990 shelter kits

UNFPA

Supporting the RNAT and PDNA in health and shelter assessments



CARICOM IMPACS

Providing immigration support in event of displacement

UNDP

Providing a gender and recovery personnel

UNFPA

 A team of 3 personnel arrived in Nassau on Sunday September 8, 2019 to conduct an assessment in Grand Bahama Island, Abaco Island and New Providence Island to inform actions required under the GBV area of responsibility and under ESF8, i.e. Sexual and Reproductive Health. Long-term GBV and SRH deployment on stand-by.

UNICEF

Providing 200 emergency recreation kits

UN Women

- Working with the Department of Gender and Family Affairs to produce and disseminate life saving information to displaced persons
- Working with the Caribbean Alliance of Psychology Associations to develop a Psychosocial intervention programme for displaced persons
- Supporting the Department of Gender with technical assistance around leading a gender responsive emergency and recovery response and to be able to guide and support other members of the team in this regard. (Gender Alerts)





TELECOMMUNICATIONS & IT

MAPACTION

· Working in information management, maps and visualizations

Telecoms Sans Frontieres

 Providing BGANS for coordination and humanitarian workers and providing humanitarian free calling operations

WFP

- Establishing VSAT communications across the affected areas, and is working closely with the NEMA Emergency Support Function (ESF) on Communications.
- In collaboration with CDEMA, WFP is communicating with the Mobile Network Operators BTC and ALIV, to fill gaps as the operators are restoring networks.
- WFP and partners Ericsson Response, NetHope, Télécoms Sans Frontières (TSF), and Vodafone Foundation are extending Internet connectivity services for responders in Marsh Harbour, and supporting the Logistics Hub at the port, the EOC at the government building, and the airport.





EARLY RECOVERY & INFRASTRUCTURE

IFRC

· Performed assessments on Abaco Island and Grand Bahama (Health, WASH, Shelter, Restoring Family Links)

UK DFID/UK Military

- Provided support for opening up of infrastructure.
- · Assisting with the rehabilitation of route clearing in North and Central Abaco

UNDP

- Deployed a team of five (5) persons to participate in the recovery efforts
- Has several experts on standby in PDNA, recovery planning, early recovery, as well as debris and waste management
- Household and building damage assessment online tool (HBDA) adjusted for rapid assessments; supporting the Ministry of Public Works with automation of their damage assessment tool.

List of actions being undertaken by RRM Partners from Sept.5, 2019



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CARPHA

 Supporting RNAT with health and environmental health; public health and shelter surveillance; post disaster vector control assessment and laboratory surveillance support

PAHO/WHO

- · Working in health sector infrastructure and public health
- Surveillance team is coordinating action plan for disease prevention with MoH

Rescue Global

 Providing health and other needs assessments of clinics; movement of aid/ medicine/ medical personnel in and medivacs out;

Samaritans Purse

Has deployed an EMT Type 2 field hospital to Grand Bahama

Team Rubicon USA

• Has an EMT Type 1 mobile hospital in Abaco

IFRC

• Red Cross is providing PSS in coordination with Bahamas Psychological Association.



WASH

UK DFID/UK Military

- The Royal Fleet Auxiliary (RFA) Mounts Bay is supporting operations in north Abaco. The vessel is currently supplying potable water to this area.
- · Distributed 987 hygiene kits and nearly 100 tonnes of water

Kingdom of the Netherlands

• The Dutch marine vessel will arrive on Wednesday September 11, 2019. The vessel has the capacity to produce one hundred and fifty thousand (150,000) liters of potable water daily

IFRC

• Distributed 1,800 jerrycans (2 per family) - 900 households; 1,800 jerrycans (2 per family) - 900 households; 900 hygiene kits (1 per family) - 900 households in New Providence Bahamas Red Cross Warehouse

ISRAID

• Deploying personnel for WASH infrastructure, water treatment and distribution

Mercy Corps

· Distribution of collapsible jerry-cans, chlorine tablets, water and hygiene kits

PAHO

Provided personnel to support assessments

Samaritans Purse

Providing 2 reverse osmosis units and distribute collapsible jerry-cans

UNFPA

• Has 1250 hygiene kits prepositioned in Barbados and Antigua

UNICEF

Distributing water containers, chlorine/ph pool tester kits, water purification tabs and 500L water tanks.

Please see links below to access previous Situation Reports Issued on Hurricane Dorian – The Bahamas

SITREP #10

https://www.cdema.org/CDEMA Situation Report 10 - Hurricane Dorian Sept 9 2019 .pdf

SITREP#9

https://www.cdema.org/CDEMA Situation Report 9 - Hurricane Dorian Sept 8 2019.pdf

SITREP #8

https://www.cdema.org/CDEMA Situation Report 8 - Hurricane Dorian Sept 7 2019.pdf

SITREP #7

https://www.cdema.org/CDEMA Situation Report 7 - Hurricane Dorian Sept 6 2019 FINAL2.pdf

SITREP #6

https://www.cdema.org/CDEMA Situation Report 6 - Hurricane Dorian Sept 5 2019 FINAL.pdf

SITREP #5

https://www.cdema.org/CDEMA_Situation_Report_5_- Hurricane_Dorian_Sept_3_2019_FINAL.pdf

SITREP #4

https://www.cdema.org/CDEMA_Situation_Report_4_- Hurricane_Dorian_Sept_2_2019.pdf