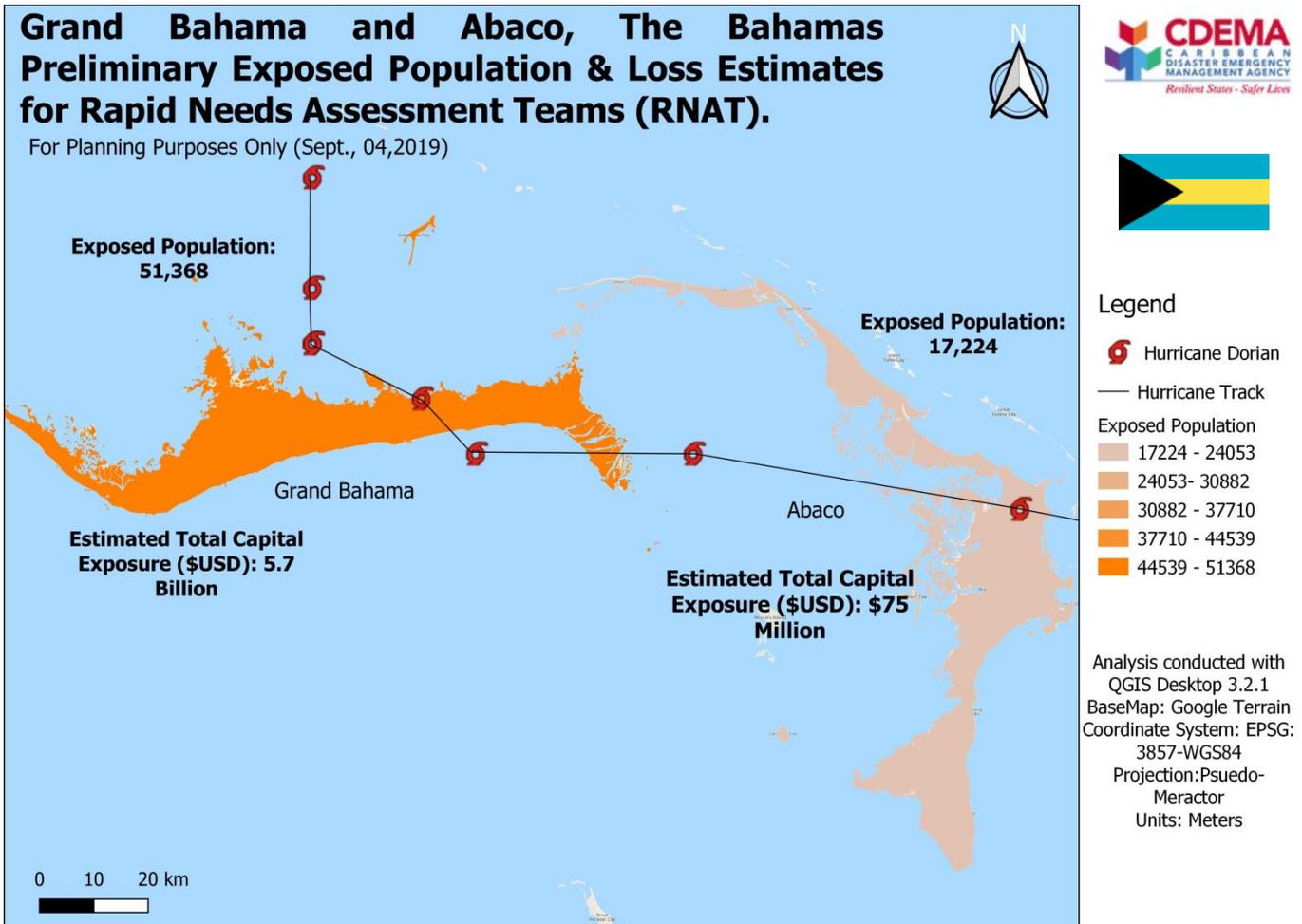


SITUATION

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.



CDEMA Rapid Needs Assessment Report for Grand Bahama as of September 4, 2019

- One (1) RNAT Team undertook an assessment of Grand Bahama via aerial reconnaissance yesterday Wednesday September 4, 2019.
- The Eastern end of Grand Bahama was severely impacted. The city of Freeport and West Grand Bahama appear to have minimal damage. The North end of the island was not assessed in the aerial reconnaissance.
- **Airport** - The Grand Bahama International Airport runway and associated taxiways were free of water and debris. No apparent pavement damage, from the air. A physical inspection is required to ensure that there is no under-pavement washed out areas before any large aircraft land. Condition of the airfield lighting system is unknown at this time.
- **Seaport** - The Seaport appears to be in good condition. Containers were well aligned.
- **Energy Sector: Electricity** - The entire island of Grand Bahama is out of power as the main plant in the industrial park was flooded out. **South Riding Point Refinery** - Oil tanks were severely damaged, with signs of extensive windblown spillage clearly visible for 200m to the North-East.
- **Emergency Telecommunications** - From aerial view, most emergency telecommunication towers seem to have not been affected. GSM connectivity (LTE) was tested from Air and appears to be up and running in Freeport.
- **Housing/Critical Buildings** - Observations on the Eastern end of the island rendered approximately 90% of catastrophic damage to housing and building structures. The South side of Freeport showed minimal damage to structures. The Northern Side was not assessed in aerial recon. Roof of the Rand Hospital appears intact.
- **Roads** - Roads on the Eastern end are still obstructed by debris, fallen poles and flooding. Between the South Riding Point Refinery and Freeport, many of the roads are still flooded. Within the Freeport area, the roads appeared to be relatively clear/passable.
- **Food security** - Given the access constraints in East Grand Bahama, it is assumed that residents who have remained are will need food assistance if road access is not swiftly established and as their food reserves are progressively utilized or were destroyed. It can be expected that residents in Freeport and West Grand Bahama are able to meet their food needs and are not in urgent need of food assistance. However, it only applies to the families whose households were partially damaged if their food reserves were not destroyed by potential rain water and debris and have the means to avail of food commodities from local markets.

CDEMA Rapid Needs Assessment Report for Great Abaco as of September 4, 2019

- One (1) RNAT Team undertook assessments of Great Abaco via aerial reconnaissance yesterday Wednesday September 4, 2019.
- Marsh Harbour appears to be the most significantly impacted. Area. Damages appear to be concentrated in the central to the northern part of Abaco. Sandy Point had no major impact .
- **Airports** – The Treasury Cay and Sandy Point Airport from the air appeared intact, no flooding or obstruction of the runway was visible. Runway solar powered-edge lights at the Leonard M Thompson (Marsh Harbour) International Airport were submerged in water. Operability unknown. Bahamas Civil Aviation Authority indicates that the runway is partially submerged and air traffic control tower cab has water damage. Doors to a generator room and electrical room were blown off and water entered both rooms.
- **Seaport** - The seaport did not appear to be obstructed by any vessel and generally appeared intact. However, on the ground assessment would be critical for this facility.
- **Electricity** - Power outage island wide in Abaco.
- **Emergency Telecommunications** - Cellular communication in Sandy Point . Remainder Further ground assessment required to identify communication gaps.
- **Housing/Critical Facilities** –less than 1% of the housing stocks were impacted on the Southern end of Abaco. The housing and critical buildings in the Central and Northern end of Abaco suffered significant damages.
- **Roads** - The road from Sandy Point to the most Northern tip of Abaco is not passable due to debris and water level. However, it was observed that water in many areas are receding.
- **Food security** - Given the access constraints in Marsh Harbour, one can assume that residents who have remained will need food assistance if road access is not swiftly established and as their food reserves are progressively utilized or were destroyed. Reports received also indicated that persons are requesting food and water in the Abaco islands.
- **Water** - Reports coming into the NEOC indicated a shortage of drinking water.

Caribbean Disaster Emergency Management Agency (CDEMA)

Actions

- A CARICOM High Level Delegation arrived in The Commonwealth of the Bahamas today, September 5, 2019. The Delegation included: Hon. Allen Chastanet, CARICOM Chairman and Prime Minister of Saint Lucia; Hon. Mia Amor Mottley, Prime Minister of Barbados; Ambassador Irwin LaRocque, Secretary General of CARICOM; Hon. Dale Marshall, Attorney General, Barbados; Hon. Dominic Fedee, Minister of Tourism, Saint Lucia; Mr. Ronald Jackson, Executive Director, Caribbean Disaster Emergency Management Agency (CDEMA); Dr. William Warren Smith, President, Caribbean Development Bank (CDB) and Captain (N) Errington Shurland, Executive Director, Regional Security System (RSS). The Delegation met with the Hon. Dr. Hubert Minnis, Prime Minister of The Commonwealth of Bahamas and was briefed on the response operations through the National Emergency Operations Center (NEOC) at the National Emergency Management Agency (NEMA) Headquarters. The Delegation also participated in an aerial reconnaissance over Abaco and Grand Bahama.
- Provided periodic briefings to the Chair of CDEMA and the CARICOM Secretariat.
- Prepared and disseminated ten (10) daily Information Notes and Situation Reports on Dorian, one (1) Savingram and one (1) Press Release. Information updates may be viewed on CDEMA's website www.cdema.org.
- Convened as co-chair - CDEMA and the UN Resident Coordinators for Barbados and Jamaica – eleven (11) meetings of the Regional Response Mechanism Partners - Caribbean Development Partners Group - Disaster Management (CDPG DM), at 1:00 PM each day.
- With the support of the UK Government, pre-deployed members for two (2) Rapid Needs Assessment Teams (RNAT), who started arriving in Nassau, Bahamas on Saturday August 31, 2019 and conducted assessments in the affected islands on Wednesday September 4, 2019 immediately after the all-clear was issued.
- The RNAT consisted of 18 persons from the CDEMA Participating States, Caribbean Public Health Agency (CARPHA), Global Affairs Canada (GAC), International Federation of Red Cross and Red Crescent Societies (IFRC); Pan American Health Organization (PAHO), Port Managers Association of the Caribbean (PMAC), Private Sector, United Nations Office for the Coordination of Humanitarian Affairs (UNOCHA) and the World Food Programme (WFP).
- Advanced arrangements for the establishment of a logistics hub, with the support of the World Food Programme (WFP) to manage the inflow of relief assistance.
- Placed Regional Response Teams on ALERT: CARICOM Disaster Assessment and Coordination (CDAC), CARICOM Operational Support Team (COST), the Multi-National Civil Military Coordination Cell (MNCCC) and the CARICOM Disaster Relief Unit (CDRU), Search and Rescue (SAR) Teams.
- Requested cash contributions 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 page 5.
- Urged members of the Regional Response Mechanism (RRM) to continue to monitor the progress of this system.

APPENDIX 3: SUMMARY OF SUPPORT FROM CDEMA PARTICIPATING STATES AND REGIONAL INSTITUTIONS

CDEMA Participating States	
Antigua and Barbuda	<ul style="list-style-type: none"> Two (2) technical personnel for Rapid Needs Assessment Team (RNAT) - expertise in Disaster Risk Management and Port Assessment
Barbados	<ul style="list-style-type: none"> Telethon to provide emergency response support for the people of the Bahamas (TBC), Search and Rescue (SAR) team on stand-by
Dominica	<ul style="list-style-type: none"> Search and Rescue (SAR) team on stand-by
Grenada	<ul style="list-style-type: none"> US \$100,000 (TBC)
Guyana	<ul style="list-style-type: none"> Oil Refinery Specialist on stand-by
Jamaica	<ul style="list-style-type: none"> Two (2) technical personnel for Rapid Needs Assessment Team (RNAT) expertise in Coastal Zone Management and Oil Refinery Assessment Pledged support through the Jamaica Defence Force (TBC) - 150 personnel DART, 1 small truck, 2 patrol land cruisers, 96 hours sustainment upon deployment and resupply by JDF vessels, 1 GIS specialist, 1 Logistic expert, 1 Maritime patrol aircraft for reconnaissance.
Suriname	<ul style="list-style-type: none"> Oil Refinery Specialist on stand-by
Trinidad and Tobago	<ul style="list-style-type: none"> Oil Refinery Specialist on stand-by
Turks and Caicos Islands	Four (4) technical personnel for Rapid Needs Assessment Team (RNAT) - Disaster Risk Management, Information Management, and Port Assessment Specialist
Virgin Islands	One (1) technical personnel for Rapid Needs Assessment Team (RNAT) - expertise in Disaster Risk Management
Regional Institutions	
CARICOM Implementation Agency for Crime and Security (CARICOM IMPACS)	<ul style="list-style-type: none"> Pledged immigration support in event of displacement
Caribbean Electricity Utility Services Corporation (CARILEC)	<ul style="list-style-type: none"> Pledged support for restoration of electricity
Caribbean Association of Fire Chiefs (CAFC)	<ul style="list-style-type: none"> Search and Rescue Teams
Caribbean Public Health Agency (CARPHA)	<ul style="list-style-type: none"> 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
Caribbean Development Bank (CDB)	Emergency Response Grant (TBC)
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)	<ul style="list-style-type: none"> 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

PRELIMINARY NEEDS LIST

UPDATE on 04 of September 2019



The Government of the Bahamas issued an Immediate Assistance Supplies List (as at 4 September 2019) through the Ministry of Foreign Affairs. In addition, specific support for the Water and Sewerage Corporation (WSC) based on pre-impact data and needs analysis undertaken, was issued through the National Emergency Operations Centre (NEOC). This is compiled below:



WASH NEEDS

Potable purified water	
Water bladders	10 (2,500 gallons each)
Water containers	4000 units of (3 gallons each)
Water purification kits	24
Water Pumps (WSC to address floods)	150 (1hp) \meyers pump dual voltage120/208 1 phase 100 (7½hp) \meyers pump flint and Walling 230/460 volts 3 phase 75 (3hp) pump \meyers 120/208 1 phase
Salt water Reverse Osmosis Plant (for water supply)	15,000-20-000 Imperial gallons (8 units)
Bladder tanks	10 (30,000) imperial gallons
Generators for power pumps	6 (60KVA)
Hygiene Kits	2000 (pampers, baby wipes, sanitary napkins, deodorant, toothpaste, soap, Baby formula)
Plastic storage pumps	5,000 gallons capacity



SHELTER NEEDS

Tents	100 (20 to 30 persons each)
Cots	2000 adult size
Blankets	2000
Insect repellent	
Portable radios	500
Plastic tarpaulin	2000 rolls
Portable single and double burner stoves	1000



FOOD NEEDS

Non-perishable food items	
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RECONSTRUCTION AND RECOVERY NEEDS

Portable generators	30 (15kw) to (25kw)
Chain saws	20
Debris removal tools	Shovels, rakes, axes, wheel barrows
Portable outdoor lamps/lights	50 sets
Flashlights	500



HEALTH NEEDS

First aid items	Sterile bandages/gauze (all sizes), tape
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The Government of Bahamas is being supported by:



SNAPSHOT OF HUMANITARIAN PARTNERS RESPONSE OPERATIONS IN THE BAHAMAS

Hurricane Dorian – NGO Activity / Areas of Operation
The Bahamas, Northwestern Islands (03SEP19 1600EDT)



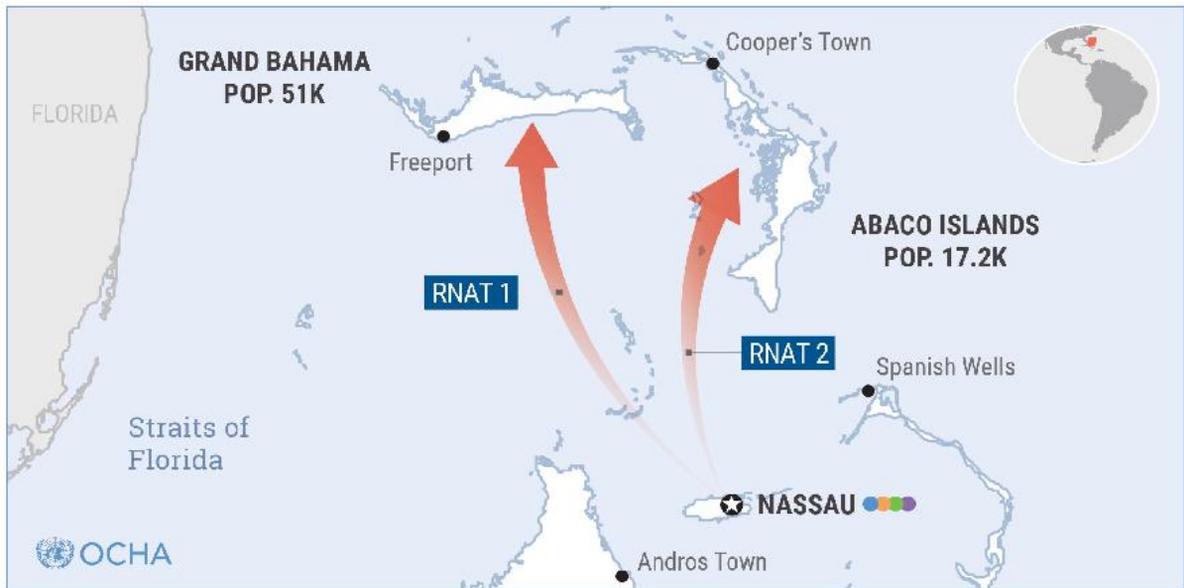
Name of Organization	Deployment Location	Deployment Duration	Deployment Objective	Size of Team	Capabilities / Resources
Pacific Disaster Center	Nassau/ NEOC	29AUG-TBD	Support NEMA/BNGIS in NEOC Advanced modeling and analytics/Common Operating Picture (COP)	5	GIS modelling, Spatial & Drone Imagery Analysis, EOC Management, Support of BNGISC & ESFs 5 & 13
CDEMA	Nassau/ NEOC	01SEP-TBD	RNAT		
CDRU	Abaco	03SEP	RNAT		
CDRU	Grand Bahama	03SEP	RNAT	9	
WFP	Nassau/NEOC	01SEP-TBD	RNAT	2	
PAHO	Nassau/NEOC				
UNOCHA/ROLAC	Nassau/NEOC		RNAT		
Bahamas Red Cross	Nassau/NEOC	29AUG-TBD	DANA	5	Damage and needs assessments, EOC support, ESF13
USAID/OFDA	Nassau/NEOC	29AUG-TBD	Supporting USAID/OFDA	3	TBD
Mercy Corps	Nassau/TBD to follow	03SEP-13SEP	Conduct Rapids Needs Assessments	2	
Direct Relief/Global Support & Development	Nassau/TBD to follow	TBD	Supplying medical supplies/assess medical needs for additional supply management	1	Medical supplies, medicine, other health related assistance items
Nethope	Nassau to start then GB/Abaco as needed	03SEP-11SEP (to start)	Assess the need for support from Nethope members, National Emergency Management Agency and other NGO's with connectivity and network. We are also open to provide open WiFi for the affected population given that we are able to get a strong enough connection.	3	ITC and Telecommunications Assessment; support of installation of high-quality wifi networks. Comms will be through satellite phones and mobile data satcom equipment. Can provide and install VSAT if needed.
Team Rubicon	Nassau/Abaco	03SEP-13SEP	Coordinate medical needs assessments/provide medical assistance.	3	Daily SITREPS, Sat Phones, GPS, Medical supplies.
MapAction	Nassau/TBD	03SEP-TBD	Damage assessments and mapping	3	GIS mapping software expertise, printers, network Food, Helicopter, Boat, Amphibious Vehicles
World Central Kitchen	Nassau/Abaco/G B	03SEP-TBD	Provide meals	15	
Project Hope	Nassau	03SEP-TBD	Health and Medical Programming/Supply	4	Health Medical supplies, hygiene kits, medical supplies/medicine. Clinical staff

BAHAMAS

Hurricane Dorian: Operational Presence & Assessment Team Deployments

As of 05 September 2019

The Government of Bahamas is being supported by:



OPERATIONAL PRESENCE (as of 10:30Am EST 5 Sep)

ORGANIZATION	SECTOR	STAFF
OCHA	✕ 🏠 📡	4
WFP	🍲 🚚 🏠	4
PAHO	🏥 🏠 🏠	5
UNHCR	🏠	1
UNDSS	🏥	1
IFRC	🏠 🏠	1
IOM	🏠 🏠	1

ORGANIZATION	SECTOR	STAFF
DDME	🏠 🏠	1
CDEMA	✕ 🏠 🏠	1
NEMA	✕ 🏠 🏠	1
CDEMA/DDME	🏠 🏠	1

ORGANIZATION	SECTOR	STAFF
Map Action	🏠 🏠 🏠	3
Télécoms Sans Frontière	📡	1
Fuel Relief Fund	🚚	2
LIFT Disaster Logistics	🏠 🏠 🏠	1
World Hope International	🏠 🏠 🏠	1
Mercy Corps	🏠 🏠 🏠	1
Samaritan's Purse	🏠 🏠 🏠	1

ORGANIZATION	SECTOR	STAFF
DFID	🏠 🏠	2

UNITED NATIONS GOVERNMENT NGO DONORS

PARTICIPANTS: Rapid Needs Assessment Team (RNAT) 1

- Antigua & Barbuda Government
- OCHA/Turk & Caicos Government
- Caribbean counselor engineer organization
- Antigua (Port Authority)
- WFP
- WFP/Turk & Caicos Government
- Canada Government

PARTICIPANTS: Rapid Needs Assessment Team (RNAT) 2

- Turk & Caicos Government
- OCHA
- PAHO
- WFP
- CARPHA

Operational presence is based on operational contact list available at: <https://t.ly/mDWGj>

Please visit <https://t.ly/mDWGj> to register your organization if you have not done so already. Information may change as the response evolves; contact barillase@un.org or cruz23@un.org for updates
Useful links: <http://bit.ly/BHSUsefullinks>

- 🏠 CCCM
- ✕ Coordination
- 📡 Telecommunications
- 🍲 Food Security
- 🏠 Info. Management
- 🚚 Infrastructure
- 🏠 Logistics
- 🏠 Multi-Sector
- 🏠 Safety/Security
- 🏠 Shelter
- 🏠 WASH

The numbers presented are for orientation and not conclusive. Sources are reports from public websites.

The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

Creation date: 05 September 2019 Sources: CDEMA, Response partners in Bahamas Feedback: ocha-rolac@un.org www.unocha.org www.reliefweb.int

List of actions being undertaken by RRM Partners as reported on September 5, 2019



RELIEF SUPPORT

IOM

- Activated logistical support from Panama regional office
- Confirmed provision of emergency equipment: two (2) logistics hubs and VSATs to Grand Bahama and Great Abaco courtesy of UNHRD. Equipment consists of: mobile storage units, generators, pre-fab offices, and lighting
- Emergency coordinator available and on standby to facilitate access to emergency shelter and distribution of non-food items (NFIs)
- Performed Displaced Tracking Matrix (DTM) Assessment to assess needs of displaced persons, including in emergency shelters.
- Camp Coordination and Camp Management conducted to shelter internally displaced persons (IDPs).
- Provided logistical support in NFI distribution
- Response team developed strategies and coordinated housing repairs
- Mobilized and distributed NFIs: Tarpaulins, tents, solar lights, jerrycans, hygiene kits etc., and 1000 tarpaulins to arrive on September 6, 2019

UN WOMEN

- Staff on stand-by to assist with shelter assessment and GBV prevention interventions
- Staff on stand-by to assist with Post Disaster Needs Assessment – Technical support and assistance re: gender impact and gender responsive response
- Trained professionals to lead psychosocial support to affected persons and care givers.

IFRC

- VSAT, Volunteer Kit for 50 persons, Warehouse tent, aluminium structure wiikHall (240 m2), WiikHall (10x24m), Two (2) jerrycans (foldable, 10L, food grade plastic, screw cap), Tarpaulins (woven plastic, 4 x 6 m, white/white, piece), Two (2) hygienic parcels for 5 persons/1 month, Shelter Tool Kits, Three (3) Buckets (Plastic, 14L with clip cover and 50 mm outlet), Two (2) Blankets (woven, 80% COTTON, 20% POLYESTER, 1.2x1.8m, light), Two (2) Kitchen sets (family of 5 persons, type "A").

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

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