BIOS Hurricane Plan

Hurricane Preparation Plan

This Plan is written with the intent to produce a consolidated scheme of operations in order to brief BIOS employees (including students and visitors if applicable) on what is required to prepare BIOS and its infrastructure in the event of a hurricane strike on Bermuda. It should be stated from the outset that the infrastructure in Bermuda is built to be as resilient as possible to any direct hurricane strike, and those personnel who have experienced recent storms will bear testimony to this. The aim should always be to ensure personnel safety and minimize the risk of damage to research equipment, vehicles, buildings and resources in advance of any hurricane in order to allow personnel adequate time to return to their homes and families to make their own preparations there.

 If a hurricane/tropical storm is forming in the Atlantic region during hurricane season (1st June to 30th November each year) there will always be adequate warning from various sources, including the US National Weather Service (www.weather.gov), the National Hurricane Centre (www.nhc.noaa.gov) and more locally, the Bermuda Weather Service (www.weather.bm). The Bermuda Weather Service uses a set of definitions to inform the media and the public of any threat and these are as follows:

Туре	Definition
Potential Threat	System center is forecast to come within 400nm of Bermuda
Threat	System center is forecast to come within 100nm of Bermuda
Tropical Storm or Hurricane Watch	Issued 48 hrs. or less prior to possible onset of Tropical Storm force winds (24-63 kts) or hurricane force winds (64 kts+)
Hurricane Warning	Hurricane force winds expected within 36 hrs

- 2. <u>Hurricane Planning Committee (HPC).</u> This Committee should meet prior to the start of hurricane season (1stJune annually) in order to discuss preparations for the forthcoming hurricane season. The HPC is to consist of the following personnel/appointments and will be led by the Primary Coordinator (PC) who is responsible for coordinating preparations before and activities during and after a hurricane:
 - Facilities Manager (PC) President and CEO Assistant to President and CEO Chief Financial & Operating Officer Accommodation & Catering Manager Marine Superintendent Small Boats Manager/Dive Safety Officer IT Manager Lab Operations Manager Education Director, University Programs Director of Ocean Academy Treasurer/Controller
- **3.** <u>Pre-Hurricane Meeting</u>. In the event of a Potential Threat/Threat (as defined in para 1 above) being broadcast, the HPC should meet as soon as practicable to finalize preparation plans and resolve any outstanding issues and concerns.
- 4. <u>General Responsibilities</u>. The following table details general areas and those appointments responsible to ensuring they are prepared and relevant personnel briefed for any subsequent clean-up operations:

Area of Responsibility	Appointment Responsible	Notes
Building/grounds security	Facilities Manager	Pre-checks to remove debris and
		loose articles and post-storm safety
Visitor/student safety and	Education Director, University	In conjunction with Accommodation
instruction (if present)	Programs and Director of Ocean	& Catering Manager
	Academy	
Resident Accommodation	Residents	Take reasonable precautions to
		secure loose articles/prepare for
Waterfront, vessels and	Marine Superintendent and	
moorings	Small Boats Manager/DSO	
Laboratories	Resident Scientists	In conjunction with Lab Ops Tech
Catering/rations	Accommodation & Catering	In conjunction with Head Chef
	Manager	
Emergency ferry service	Small Boats Manager/DSO	In event of Causeway closure
		(50kts+) and to include identification
		of potential docking sites

5. <u>Specific Responsibilities</u>. Further to the general responsibilities outlined above, by 1st June each year the following preparations/planning are to have taken place:

Task	Appointment Responsible	Notes
Full inspection of BIOS	Facilities Manager	Including pruning of trees,
grounds/property		removal/securing of loose
		articles and debris and building
Ensure all fuel tanks and fresh	Facilities Manager	To include gasoline, diesel and
water tanks are full		propane tanks
Ensure adequate supplies and	Facilities Manager	To include including emergency
equipment are ready for use and		generator(s), chainsaw(s) and
distribution		pre-cut window/door protection
Inspection of small boat moorings	Small Boats Manager/DSO	
Inspection and permission to use	Marine Superintendent	For RV Atlantic Explorer
moorings in St George's		
Provision of emergency	Accommodation & Catering	Sufficient to feed full house of
food/rations	Manager	visitors/students for 10 days
IT/communications preparations	IT Manager	To include detailed contact list
		for BIOS employees
Check ability to generate power	Marine Superintendent &	Post-storm emergency power
from Atlantic Explorer	Facilities Manager	supply to critical areas (labs,
		accommodation)

6. <u>General Safety</u>. All on-site cottages, Wright Hall lounge/dining hall and the library are considered safe areas for residents, visitors and students, providing sufficient preparations are carried out to secure windows and doors and secure/remove loose articles. All personnel on site are to take all reasonable precautions to ensure their own safety and the safety of others; in the event of a hurricane strike stay indoors unless it is an emergency and evacuation/movement outside is totally unavoidable and absolutely necessary. Common sense must prevail at all times. In the event of a hurricane or other severe storm, the Passing Wind is to be considered out of bounds to all personnel.