

Impact Matrix for emergency management: Winds			
Minimal Impact	Minor Impacts	Significant Impacts	Severe Impacts
<u>Debris</u>  Localized loose debris blown around	Localized tumbling of unsecured objects (e.g.: inflatable structures, tents, garbage cans)	Tumbling and rolling of unsecured objects (e.g.: inflatable structures, tents, garbage cans)  Injury and danger to life from flying debris	Lifting/airborne of unsecured objects (e.g.: inflatable structures, tents, garbage cans)  Widespread danger to life from flying debris
<u>Transportation</u>  Isolated transport routes affected	Regional transport routes affected by wind or falling tree limbs  Some delays in journey times	Significant transport routes affected by wind and falling trees  Significant impacts to first responder operations  Significant delays, road closures and traffic congestion	Widespread transport routes and travel services affected for a prolonged periods  Severe impacts to first responder operations  Delays or cancellation of public transportation  Major traffic congestion and stranded residents

<u>Power</u>  No power disruptions due to wind	Localized power disruption with down power lines	Significant and widespread interruptions to power utilities and services; Power and associated utilities (e.g. water) can be off for hours to days	Widespread and prolonged disruption to power utilities and services that can last for weeks to months
<u>Coastal</u>  Localized instances of sea spray and large waves affecting coastal routes, sea fronts, and coastal communities on windward side of island	Regional coastal routes, sea fronts and coastal communities affected by sea spray and/or large waves.  Minor beach erosion	Significant danger to life from large waves/beach material being thrown onto coastal routes, sea fronts, and coastal communities; possible regional beach erosion, and damage to coastal building, roads, infrastructure	Extreme impacts to coastal areas with large-scale beach erosion, damage to coastal property and infrastructure; Casualties possible from large waves/beach material being thrown onto coastal routes, sea fronts, and coastal communities
<u>Marine</u>  Choppy seas, rough waters impacting fishermen, small sailboats, tour boats, and other small craft;	Waves up to 2.5m, choppy seas, rough waters impacting fishermen, small sailboats, tourist activities, and other small craft  (Small craft advisory)	Waves >=3m waves, small craft operators risk of damage to craft and danger to life, significant danger to people on tourist boating operations; damage to	Damage to craft and potential loss of life likely if not secured in harbor or onshore; Small watercraft caught in open water risk of capsizing and potential loss of life;

(Marine advisory)		watercraft if not secured in harbor or on land  (Small craft warning)	
<u>Air Quality</u>  No air quality issues	Minimal reduction of visibility due to African dust and minor, isolated health impacts	Widespread African dust that reduces visibility and more widespread respiratory impacts to vulnerable residents	Severe impacts due to high concentrations of African dust. Reduced visibility and widespread health impacts to many residents
<u>Infrastructure</u>  Little or no structural damage	Isolated structural damage	Regional structural damage to residential and businesses	Severe damage to residential and business structures. Displacement of residents for significant amount of time. Possible long-term economic loss due to closed businesses and structural damage in city, resorts, to roads, etc.
<u>Fire</u>	Increased risk of fires spreading and respiratory impacts downwind of grass	Significant risk of grass fire spreading and downwind impacts to health and visibility. High risk during dry	Severe risk of controllable grass fire and health, visibility, and infrastructure damage impacts. Extreme

Slight risk of fires spreading in grass areas during the dry season	fires especially during the dry season	season. Significant risk of fire spreading in urban areas for structural fires	risk during dry season. Extreme risk of fire damage to adjacent structures in urban areas for structural fires. Smoke and burn impacts to residents and animals
<u>Aviation</u>  No impacts on airport operations	Minimal impacts on aviation. Some delays on arrival departure dependent on airlines criteria or wind shear on airfield	Delays can be expected or possible cancellations; flight operations dependent on airline criteria. Some delays expects if wind shear on or near airfield  Some impacts to ground operations – secure shipping containers, bags	Significant delays and cancellations expected. Airlines delay, cancel, or reroute flights in severe conditions  Ground operations delayed or stopped.  Possible damage to containers and equipment if not secured.

<u>Port</u>  No impact to port activities	Minor impacts with ship load/unload operations  Some containers need to be secured	Significant impacts to port activates. Ships moved out of harbor/delayed entry  Tall stacks of shipping container need to be lowered/secured  Dangerous winds (wind tunnel effect) between containers	Sever impacts. All ship operations stopped. Major delays in operations if port is damaged.  Containers need to be secured. Damage to containers, cranes likely if not secured  Extreme winds/danger in between containers.  Delay in supplies to the island
<u>Tourism</u>  Little or no impacts on tourism or other social activities	Minor impacts to tourism activities. Beach or near shore activities could be delayed or cancelled	Significant impacts expected with beach and boating activities cancelled, delayed, or moved to alternative locations  Possible reduction of cruise ship in port/loss of business	Most activities cancelled, delayed, or moved. Long-term impacts if beaches are eroded and equipment damaged. Social activities, sporting events, etc. delayed or canceled

			Cruise ship activities stopped/delayed/significant economic impact
<u>Renewable Energy</u>  No impact to wind turbines or solar panels	Possible reduction in wind energy generation to secure wind turbines. Minor reduction to solar to secure solar panels	Significant reduction to wind and solar energy generation to secure wind turbines and solar panels for high winds. Some damage may occur	Extreme reduction or complete stoppage for renewable energy production to securely store wind turbines and solar panel. Long-term reduction likely with damaged systems