

Documentary for Volcanic Risk Awareness in the Eastern Caribbean

Time	Narration	Visuals	Graphics	Sound
<p>Start of section: Introduction</p>	<p>The Eastern Caribbean islands stretch like an emerald chain linking North America to South America.</p> <p>Known for their natural beauty and warmth, both environmental and cultural, people often wonder how these island gems were formed.</p>	<p>Background montage of Volcanic hazards, monitoring, monitoring agencies, Red Cross personnel at work etc. (Taken from PSAs)</p> <p>Image of Soufriere Hills Volcano Pyroclastic Flow</p> <p>Fade to black:</p> <p>Fade to map of the Caribbean</p> <p>Dissolve to images of nature, people in a city, cricket match.</p> <p>Dissolve back to map of Caribbean. Zoom in to focus on the Eastern Caribbean then</p>	<p>Opening credits</p> <p>Video Title: The Caribbean Volcano: Preparing for the Next Eruption</p>	<p>Music (Driving, rhythmic and serious)</p> <p>Music fades out</p> <p>Music fades in (more melodic, possibly steel pan)</p>

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<p>End of section: Introduction Duration: 1 minute Total: 1 minute</p>	<p>We now know that many Eastern Caribbean islands were built from volcanic activity and islands, example Montserrat Dominica and St Vincent continue to have live volcanoes. Residents of volcanic islands always live with risk of eruption.</p>	<p>highlighting Montserrat Dominica and St. Vincent</p> <p>Images of Soufriere Hills volcano, boiling lake in Dominica and La Soufriere in St Vincent</p> <p>People in a town setting with volcano in background.</p> <p>Image fades out</p>		<p>Music fades out</p>
<p>Start of section: Formation of a Volcanic Caribbean Island</p>	<p>Formation of a Volcanic Caribbean Island</p> <p>In order to live safely with this dangerous natural force. It is important to understand how a volcano works.</p> <p>The surface of the Earth is a thin layer of solid rock,</p>	<p>2D animation of island growing in profile view / other transitional animation</p> <p>Fade to image of an explosion</p> <p>Graphics depict the structure of the earth.</p>	<p>Caption: Formation of a Volcanic Caribbean Island</p>	<p>Music fades in (serious, powerful)</p>

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<p>End of section: Formation of a Volcanic Caribbean Island Duration: 30 seconds Total: 1 minute 30 seconds</p>	<p>called the crust, which floats on a much thicker layer of molten rock called the mantle. The crust is broken into several large slabs called plates. In the Caribbean, where the North American Plate collides with and descends beneath the Caribbean plate, the descending crust melts and the bouyant magma makes its way upwards to the surface, where it builds up into a volcano.</p>	<p>Graphics or animation depict movement of the plates</p> <p>Animation or diagram of subduction zone.</p> <p>Image of erupting volcano</p> <p>Image fades out</p>		<p>Music fades out</p>
<p>Start of section: An Eruption Experience: Montserrat's Soufriere Hills Volcano</p>	<p>An Eruption Experience: Montserrat's Soufriere Hills Volcano</p> <p>The Soufrière Hills Volcano in Montserrat is</p>	<p>2D animation with bird's-eye view of Montserrat and volcano/other transitional animation</p> <p>Fade to recent image of Soufriere Hills Volcano</p>	<p>Caption: An Eruption Experience : Montserrat's Soufriere Hills Volcano</p>	<p>Music fades in softly</p>

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	<p>an example of a currently active Caribbean volcano.</p> <p>It is located in the south of the island, and is characterized by a cluster of domes, which are basically huge piles of volcanic lava.</p> <p>The slopes of the Soufrière Hills Volcano are built from deposits created by explosions and dome collapses.</p> <p>Residents were living in their lush mountainous home as they had for centuries, with scarcely a thought to the apparently quiet Soufrière Hills Volcano, until suddenly in 1995, a new vent opened in the mountains.</p> <p>Over the next few months, Montserratians would come to learn a completely new reality as those peaceful mountains unveiled an active</p>	<p>Map of Montserrat showing the volcanos location.</p> <p>Footage of new dome/juxtaposed with footage of old dome covered with vegetation.</p> <p>Footage of pyroclastic flow deposits and delta.</p> <p>Footage of Montserrat before the eruption began.</p> <p>Footage or picture of the first vent.</p> <p>Footage or pictures of mountains before eruption Dissolve to footage or pictures of more desolate view after</p>		<p>(instrumental)</p>
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	<p>volcano.</p> <p>Volcanic ash would fall regularly, settling all over the landscape.</p> <p>But that was only the beginning of social and landscape change. Montserrat's population of 11,000, began to decline rapidly, as people left the island.</p> <p>Meanwhile, a dome began to grow, and as it grew large within the crater, the threat to life and property escalated. It was soon necessary to evacuate all villages near the volcano and the capital of the island, Plymouth. The evacuation was accompanied by enormous economic and social disturbance.</p> <p>At present, The Soufrière Hills Volcano has re-claimed half of the island,</p>	<p>dome growth</p> <p>Images of an ash cloud Images of ash covered terrain.</p> <p>Pictures of people travelling</p> <p>Footage/pictures of dome growth. Footage of rock falls</p> <p>Footage of pyroclastic flows</p> <p>Footage/Pictures of evacuation</p> <p>Footage/ pictures of destruction in Plymouth and east and southern villages.</p>		
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<p>End of section: The Eruption Experience: Montserrat's Soufriere Hills Volcano Duration: 2 minutes Total: 3 minutes 30 seconds</p> <p>Start of section: The Hazards of Eastern Caribbean Volcanos</p>	<p>which is now inaccessible or buried by volcanic debris. It also claimed 19 lives. (please read with sensitivity)</p> <p>Montserrat has changed drastically with new development taking place exclusively in the north of the island. The population has decreased to roughly 5000 residents who bravely face the road to full recovery.</p> <p>The Hazards of Eastern Caribbean Volcanoes</p> <p>Usually we think of volcanoes producing red and fluid lava like at Hawaiian volcanoes. But Caribbean volcanoes are different and usually produce thick, viscous lava</p>	<p>Footage of development in the north of Montserrat.</p> <p>Image fades out</p> <p>2D animation of a volcano exploding /other transitional animation</p> <p>Fade to map of the region superimposed on pyroclastic flow.</p> <p>Images of basaltic lava (e.g.</p>	<p>Caption: The Hazards of Eastern Caribbean Volcanos</p>	<p>Music fades out</p>
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	<p>Because of its viscosity, this type of lava does not travel very far from the vent, but as seen in Montserrat, piles up into gigantic lava domes creating a number of dangers, including one of the most deadly-- pyroclastic flows and surges.</p> <p>When a dome grows so large that it becomes unstable and collapses, or when there is a large explosion, a pyroclastic flow may be generated. This is a fast moving avalanche of hot ash and rock fragments in a turbulent gas cloud most likely exceeding 600 degrees Celsius, which will travel down valleys at speeds that can exceed 100 mph, causing total devastation of the areas over which they flow. The finer grain portion of the flow is called a pyroclastic</p>	<p>Hawaiian volcano)</p> <p>Images of dome growth.</p> <p>Video of pyroclastic surges</p> <p>Images of pyroclastic flows</p> <p>Images of destruction due to pyroclastic flows Image from 1902 eruption from La Soufriere St. Vincent</p> <p>Images of destruction due to pyroclastic surges Image from 1902 eruption of Mt. Pele in Martinique</p>	<p>Caption: Pyroclastic Flows and Surges.</p>	
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	<p>surge and it can climb terrain such as ridges and hills, taking people by surprise.</p> <p>It is impossible to predict the moment when a pyroclastic flow will occur. It is also impossible to out-run a pyroclastic flow.</p> <p>Therefore to survive, it is necessary to evacuate areas threatened by pyroclastic flows before they occur. Respond immediately to evacuation orders.</p> <p>Another hazard typical of Caribbean volcanoes is that of explosions, which, in addition to pyroclastic flows, can generate ballistic projectiles and ash fall. When the</p>	<p>Images of pyroclastic flows</p> <p>Black/White background</p> <p>Video of explosion</p>	<p>To survive eruption: evacuate areas threatened by pyroclastic flows before they occur</p> <p>Caption: Ballistic Projectiles and Ash</p>	
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	<p>volcano's vent becomes blocked, gas pressurizes the upper plumbing system until an explosion occurs. A great column of debris is ejected high into the atmosphere. Large blocks and bombs travel like cannonballs and usually land within 1 mile of the vent, but they can travel further during stronger explosions.</p> <p>Ballistic projectiles are heavy and fall at incredible speed. Upon impact, they can smash buildings and other infrastructure into pieces. Anyone within range of these falling rocks is in extreme danger.</p> <p>In order to survive an explosion, stay out of range of ballistic projectiles and out of their path. Again, it is necessary</p>	<p>Diagram of volcano showing vent.</p> <p>Clip of ash cloud</p> <p>Images of ballistic projectiles</p> <p>Images of ballistic projectiles</p> <p>Images of damage caused by ballistics</p> <p>Black/White background</p>	<p>To survive eruption: Respond immediately to evacuation</p>	
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	<p>to respond immediately to evacuation orders.</p> <p>During an explosive event, a great volume of volcanic ash is also ejected. These fine fragments of rock, up to about 2 mm in diameter, are forced upwards in the eruption column before settling out downwind. When volcanic ash falls it blankets the entire landscape. It may even be carried to neighbouring islands by prevailing winds. During the 1979 eruption of La Soufrière in St. Vincent, ash was carried as far as Barbados. Near to the eruption vent, the thickness of the ash deposits may be enough to collapse buildings and destroy vegetation,</p>	<p>Video of explosion</p> <p>Video of ash cloud</p> <p>Video of falling ash</p> <p>Images of ash covered landscape</p> <p>Images of La Soufriere eruption</p> <p>Images of destroyed buildings</p> <p>Images of destroyed</p>	<p>orders.</p>	
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	<p>especially if there is rainfall.</p> <p>In order to stay safe during ash fall, do not drive unless absolutely necessary as dust and darkness will obstruct vision, causing accidents. Slippery wet ash also makes driving conditions treacherous.</p> <p>Carefully protect food and water for human and animal consumption from contamination by ash</p> <p>Protect your property by safely cleaning ash from your roof, and by covering equipment.</p> <p>Ash can cause breathing difficulty, so remain indoors during ash fall, or cover one's mouth and nose with an ash mask or</p>	<p>vegetation</p> <p>Images of vehicles driving in ash</p> <p>Images of wet ash</p> <p>Images of animals in ash</p> <p>Picture of man cleaning roof</p> <p>Image of person covering mouth with rag or ash mask</p>	<p>Caption: Avoid driving in ash</p> <p>Caption: Cover water and food supplies</p> <p>Caption: Clean your roof and cover equipment</p> <p>Caption: Cover your nose and mouth when outdoors</p>	
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