

Chart of Event to Sphere Hazards

	Yellowstone Fire	Mt. Pinatubo Eruption	Hurricane Georges	Soufrière Hills Eruption
Biosphere				
Short-Term Effects	<ul style="list-style-type: none"> • Fire destroyed land cover (bushes, trees, grasses). • Animals and people were killed or displaced. 	<ul style="list-style-type: none"> • Pyroclastic flows destroyed land cover. • Animals and people were killed or displaced. 	<ul style="list-style-type: none"> • High winds and flooding destroyed land cover. • Animals and people were killed or displaced. 	<ul style="list-style-type: none"> • Pyroclastic flows destroyed land cover. • Animals and people were killed or displaced.
Medium-Term Effects	<ul style="list-style-type: none"> • The smoke caused health problems. • Landslides and erosion led to loss of land cover and death or displacement of living things. 	<ul style="list-style-type: none"> • Ash caused health and machinery problems. • Lahars led to a further loss of land cover and death or displacement of living things. 	<ul style="list-style-type: none"> • Landslides led to a further loss of land cover and death or displacement of living things. 	<ul style="list-style-type: none"> • Ash caused health and machinery problems. • Lahars led to a further loss of land cover and death or displacement of living things.
Lithosphere				
Short-Term Effects	<ul style="list-style-type: none"> • Charred debris changed the soil structure. 	<ul style="list-style-type: none"> • Pyroclastic flows and explosive activity changed the land's surface structure. 	<ul style="list-style-type: none"> • Flooding led to inland erosion. • Tidal surge led to beach erosion. 	<ul style="list-style-type: none"> • Pyroclastic flows and seismic activity changed the land's surface structure.
Medium-Term Effects	<ul style="list-style-type: none"> • Erosion and landslides changed the land's surface structure. 	<ul style="list-style-type: none"> • Erosion and lahars changed the land's surface structure. 	<ul style="list-style-type: none"> • Erosion and landslides changed the land's surface structure. 	<ul style="list-style-type: none"> • Erosion and lahars changed the surface structure.
Atmosphere				
Short-Term Effects	<ul style="list-style-type: none"> • Smoke and heat entered the atmosphere. The heat created driving local winds. 	<ul style="list-style-type: none"> • Volcanic ash and sulfur dioxide gas entered the atmosphere. 	<ul style="list-style-type: none"> • There were high winds and heavy rains. 	<ul style="list-style-type: none"> • Volcanic ash entered the atmosphere.
Medium-Term Effects	<ul style="list-style-type: none"> • Smoke cleared within days after the fire subsided. 	<ul style="list-style-type: none"> • There is evidence that the sulfur dioxide affected global weather. However, this is not discussed in the readings. 	<ul style="list-style-type: none"> • There are no medium-term effects of a hurricane on the atmosphere. 	<ul style="list-style-type: none"> • The volcanic ash did not extend high enough into the atmosphere to affect global weather.
Hydrosphere				
Short-Term Effects	<ul style="list-style-type: none"> • Debris fell in lakes and streams, making the water undrinkable. • Chemicals were accidentally dumped in one river. 	<ul style="list-style-type: none"> • Pyroclastic flows and volcanic ash contaminated the rivers. 	<ul style="list-style-type: none"> • High winds and rain created flooding and a tidal surge. 	<ul style="list-style-type: none"> • Pyroclastic flows and volcanic ash contaminated the rivers.
Medium-Term Effects	<ul style="list-style-type: none"> • Further contamination resulted from erosion and landslides. 	<ul style="list-style-type: none"> • Further contamination resulted from erosion and landslides. 	<ul style="list-style-type: none"> • Erosion and landslides led to contamination of rivers. 	<ul style="list-style-type: none"> • Further contamination resulted from erosion and landslides.