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Infinity: Storm

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HURRICANE KATRINA

ost people are no longer superstitious about storms, but weather catastrophes still affect us. Many of us like to live where the weather is going to be safe and predictable but that can never be guaranteed. Other people knowingly live in areas that are prone to certain types of storm – for example, people living in the Caribbean and the southeast coast of North America experience the hurricane season every year, which falls between August and October.



By predicting when and where a storm will strike, weather forecasters can prevent severe loss of life. In August 2005, they noticed a tropical depression forming out to sea off the count of North America. It increased to a tropical storm, before it finally turned into one of the most powerful hurricanes the world has ever seen – Hurricane Katrina.

A city at risk

New Orleans lies on the southeast coast of North

America. It is situated in an area prone to hurricanes.

On average, one hurricane bits it every three to four years.

IN 1953, the United States Weather Service began naming storms after women. These were often the names of the wives of the meteorologists (weather forecasters). In 1979, men's names were added.

Now six lists of names, working from A to Z, have been created. Every six years the list is repeated, so names from 1997 (Ana, Bill, Claudette, Danny . . .) were also used in both 2003 and 2009. However, if a storm is a huge disaster, that name is never used again.

STORM NAMES

FLAGGING DANGER Triangular storm-weening pennants and harricane flags signal danger. Two flags on the same pole indicate a severe werning.

The eye of the storm
It is easy to identify a hurricane from
above: there is always an eye somewhere
near the middle. Spiralling bands of
clouds containing strong winds and
thunderstorms surround the eye. If this
satellite photo were put in motion, the
clouds would rotate around the eye.

Saffir-Simpson scale.
This scale, from 1 to 5, is used to estimate the damage that will happen if a storm him land. A caregory 1 storm has winds blowing at more than 120 kilometres per hour [75 mphi. A category 5 hurricane has winds of 250 kilometres per hour [155 mphi.

Switch sides, quick!

has stronger winds in the

Because of Earth's rotation, the

right-hand side of a hurricane

northern bemisphere. This side

have tornadoes embedded in it.

Mass evacuation

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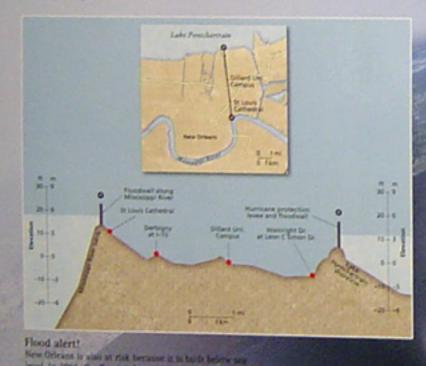
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Track of Hurricane Katrina
Trapical depression
Trapical storm
Category I

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Category 5

Deadly timeline

- 23 August 2005: Tropical depression forms over the Bahamas.
- * 24 August: Upgraded to Tropical Storm Katrina.
- * 25 August: Upgraded to Hurricane Katrina. Makes landfall on Florida coast.
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- 30 August: Level breaches cannot be plugged. Federal troops sent in to help.
- 31 August: #5 percent of city is under water.
- 1 September: Search and Rescue sent to help stranded victims.



Coming in to land
Hurricanes are violent storms that are
always been over sea but sometimes
move towards the coast and "makelandfall". They bring heavy rain and
extresse winds. A hurricane watch is
sneounced to alert the public that a
storm could hit within 36 hours. This
is ungraded to a hurricane warning if
landfall is larity in the next 24 hours.

Hurricane hunters

Specially equipped hurricane bunter places fly into and through hurricanes to record weather information. They collect data no temperature, winds, humidity and air pressure. This data is fed into computers to help forecast the hurricane's strength and if, when and where it will be ited.

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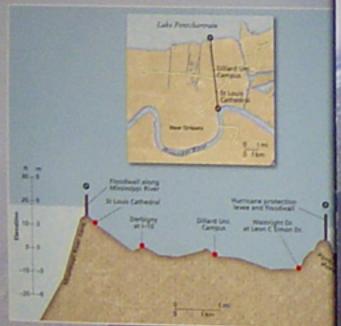
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Flood alert!

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THE STORM SURGE

THE MOST DESTRUCTIVE expets of a formance is often not the wind but the surge of Bood water that comes with it. As the harricine rages When this hits the show, the third wave can pour toland and cause massive flooding. Storm surge waves were more than 9 metres (10 ft) high when Katrina thrust onto lood.

HIGH AND DRY These have ships were seashed askers: and then left stranded when

Spiral of destruction

Bands of cloud rotate around the eye in a spiral pattern because of Earth's rotation. In the northern hemisphere, hurricanes rotate anti-clockwise and in the southern hemisphere, clockwise

Terrifying heights

Hurricanes can vary vastly in height but Katrina was estimated at 16 kilometres (10 miles) high. This meant that the top of some of its clouds bulged into the next layer of Earth's atmosphere.

Death of a storm

A hurricane needs warm water to ford

it. Once it has made landfall, it runs

out of this fuel and gradually lows power and intensity. It downgrades to a implical storm and eventually they out

Hurricanes are furlied by heat. They form over tropical oceans with a temperature of at least 26.7°C [80°F]. The warm moist air

SPINNING TOWARDS LAND

rushes upwards as if up a chimney, sucking in more air around it at sea level. Earth's rotation makes it start to spin, and this rising. spinning whorl of rain bands usually grows to 500 kilometres (300 miles) across, although some hurricanes can become twice that size. Hurricanes, typhoons and cyclones are all the same type of storm; they are just given different names around the world.

All calm in the eye

Warm winds rise sharply at the eye wall. Here, the bands of clouds are highest and this area has the most destructive winds. These winds usually occur within 500 metres (1,600 ft) of the ocean's surface.

The eye wall

The storm's eye is usually about 50 kilometres (30 miles) across but in the largest storms it can be

320 kilometres (200 miles) wide. The eye is usually free of rain and cloud, forming a small area of blue sky and eerie calm in the centre of the storm.

> Switch sides, quick! Because of Earth's rotation, the right-hand side of a hurricane has stronger winds in the northern hemisphere. This side of the hurricane might even have tornadoes embedded in it.

In cities such as New Orleans,

where the estures have experienced tropical storms the past, pussy people pack sand leave as soon as a sericane warring to given. Durues of traffic develop on the highways, all brading in the same direction - away

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Track of Hurricane Katrina

Tropical depression Tropical stores Category I

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- * 31 August: 85 percent. of city is under water.
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CATASTROPHIC LANDFALL

Katrina was one of the deadliest and the most costly hurricanes in American history. When it hit land, it brought strong winds, heavy rains and a massive storm surge. New Orleans' specially built system of drainage levees (flood banks) falled in over 50 places. There was so much flooding that stranded citizens floated on boats, doors, mattresses or whatever they could find. Some just climbed onto their roofs and hoped to be rescued. Dead bodies could not be picked up for days and parts of the city were flooded for weeks.

Roof sections WEIT TOTH AWAY

Ripped away The Superdome was estimat to be able to withstand winds of 320 kilometres (200 miles) per bout, but two sections of its mofand its waterproof membrane were torn offiny Katrina.

National Guard Seagth

treets of dirty water An amusing 65 percent of he city of New Orderes was and nerged by the storm surge. he Goodwater was quickly estalisated by debris.

HURRICANE KATRINA RESCUE PILOT

A FTER THE DISASTER the air was filled with the A sound of helicopters trying to rescue the 60,000 people stranded in New Orleans. I was one of those rescue pilots. Many people waved to us with towels and makeshift flags from rooftops. They were desperate, but sometimes we had to ignore their pleas. We could only rescue one or two people at a time and we had to prioritise the sick and injured.

Sometimes, as we hovered over the houses to lower the rescue bucket, we saw sad and bizarre sights. Pets were abandened on rooftops, and at one house we saw an alligator swimming out of the artic of a flooded home.

JOHNNY HOOPER, STARCH AND RESCUE



Superdome safety

Eventually, more than 20,000 refugers gathered at the Superdome, Many waded through floodwater to get there, having left their ruined homes and possessions. The National Guard and volunteer groups organised relief and clean-up efforts.



The last resort

Citizens who had not evacuated were urged to take shelter in the Louisiana Superdome as a "refuge of last resort". The street outside was flooded I metre (3.8) deep.



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