



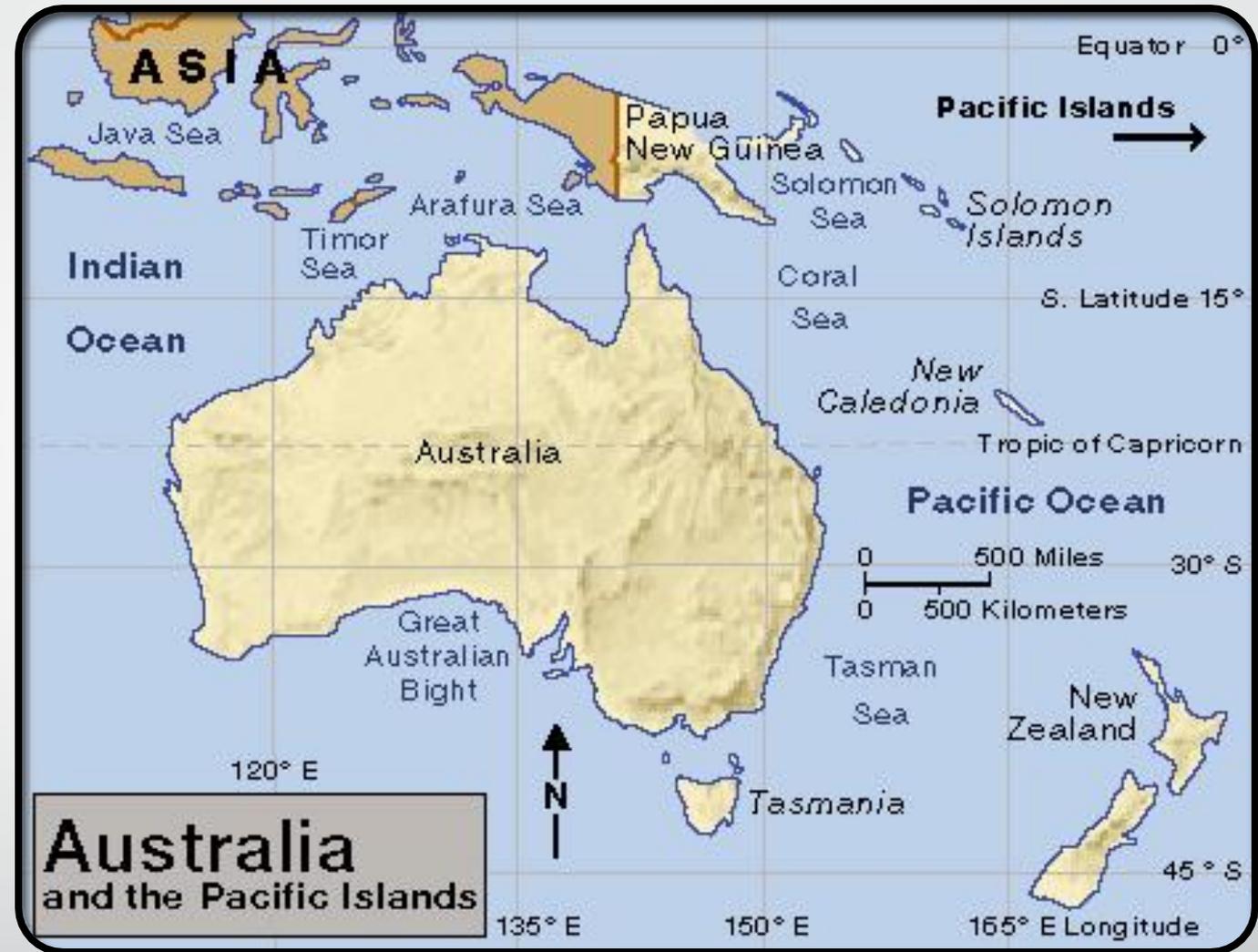
W is for wildfires

By: Eleni Feldman , Miraya Bharucha, Sarina Dhingra

A is for Australia

Australia is one of the most common places for wildfires. Twenty-five people and 2,500 buildings have been **destroyed**. Usually the country's largest wildfires occur in January or February when it's hottest. This is their summer.

Did you know that the air quality in some parts of Australia is as dangerous as smoking 37 cigarettes a day? These wildfires have burned over 16 million acres of land. The **wildfire season** in Australia did not end in 2019.



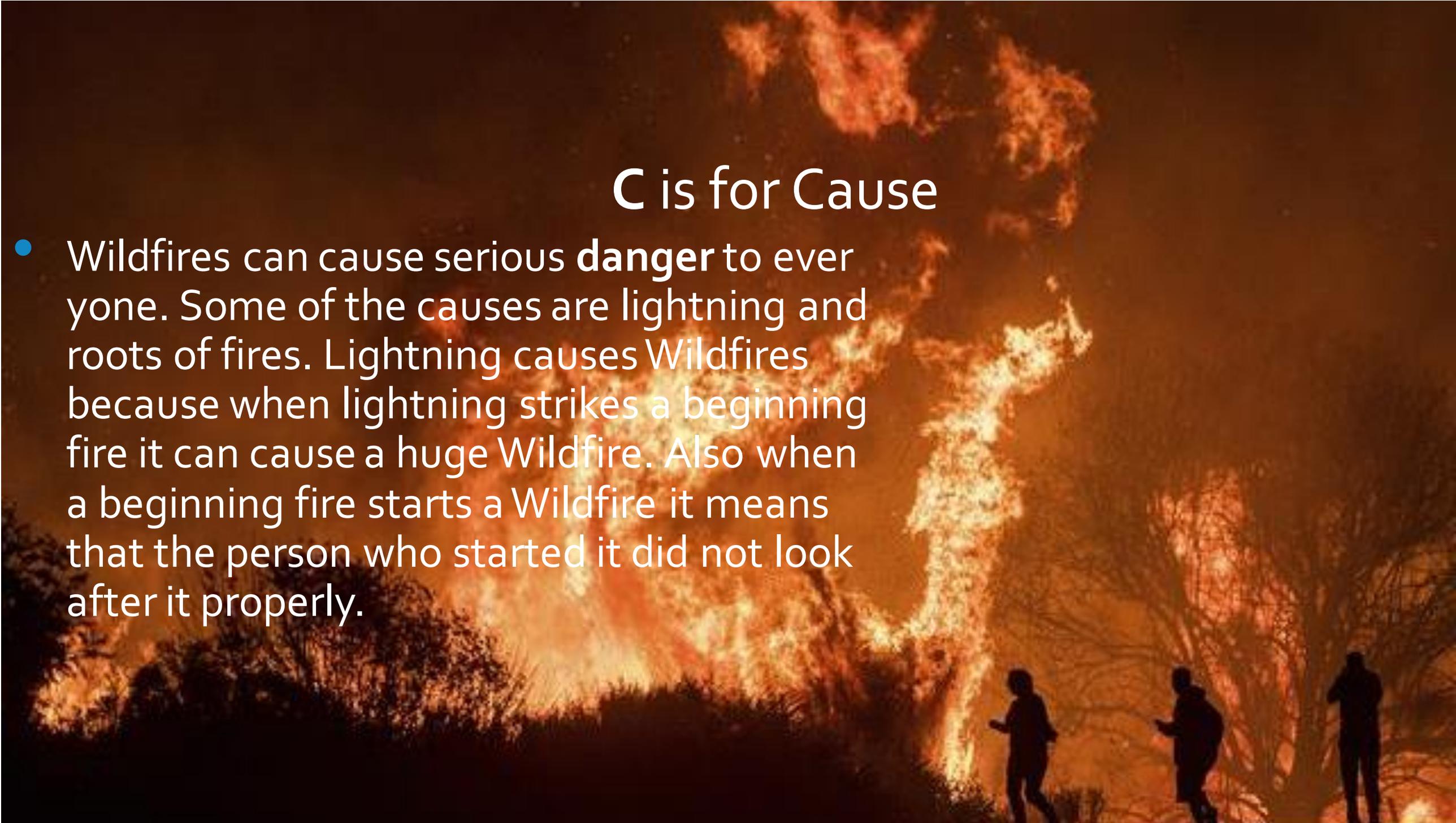
B is for Burning

- **Burning** trees are the fuel for wildfires. Burning trees are not a good sight to see in 2019, there were 58,083 wildfires worldwide. About 8.8 million acres were burned. Some things need to be burnt in order to have new life like weeds. If the weeds get burnt it makes space for new growth.

Burning trees are like **torches** made from wildfire. Tree torches are a great danger to evacuating people. Steer clear of any burning trees that can hurt and burn you.

C is for Cause

- Wildfires can cause serious **danger** to everyone. Some of the causes are lightning and roots of fires. Lightning causes Wildfires because when lightning strikes a beginning fire it can cause a huge Wildfire. Also when a beginning fire starts a Wildfire it means that the person who started it did not look after it properly.



D is for Damage

- Wildfires cause a lot of damage. Sometimes you might save up money for something expensive and it gets damaged in a wildfire, you might feel bad. But while these things may be saved from a wildfire, you cannot be saved. Damage can also be tossed and thrown at you keeping clear of damage is a good idea. Damage is dangerous.

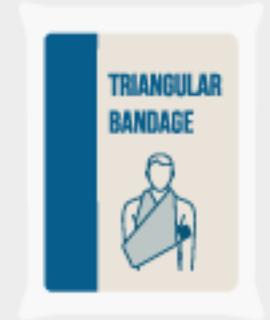
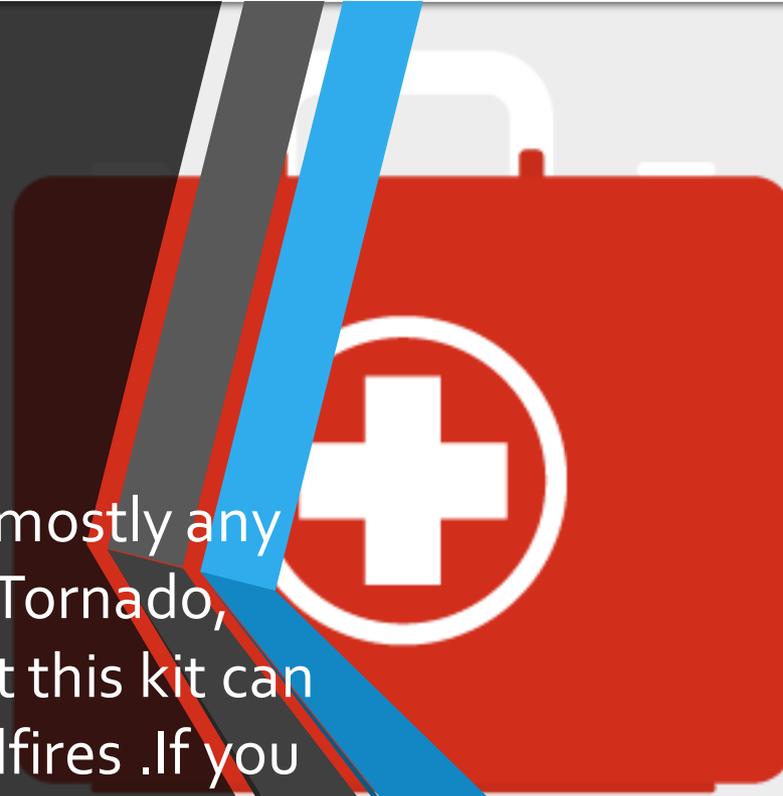
E is for Evacuate

- Evacuating is a good idea because these dangerous wildfires can kill many people. Many hazards await you if you do not evacuate. Lines may be long but eventually you will move out of danger. Evacuate if you would like to live.



F is for First Aid kit

First aid kits help you in mostly any emergency. Wildfires, Tornado, Earthquake and more. But this kit can mostly help you with wildfires. If you get burnt you will need band-aids and Vaseline. You have a flashlight in case you need to go into a dark cave for shelter from a wildfire. Thermometer in case you are staying in your shelter without food and you get sick. Medical tape to bandage big wounds.



This is a kit to help you in case of emergency this kit is of real help.

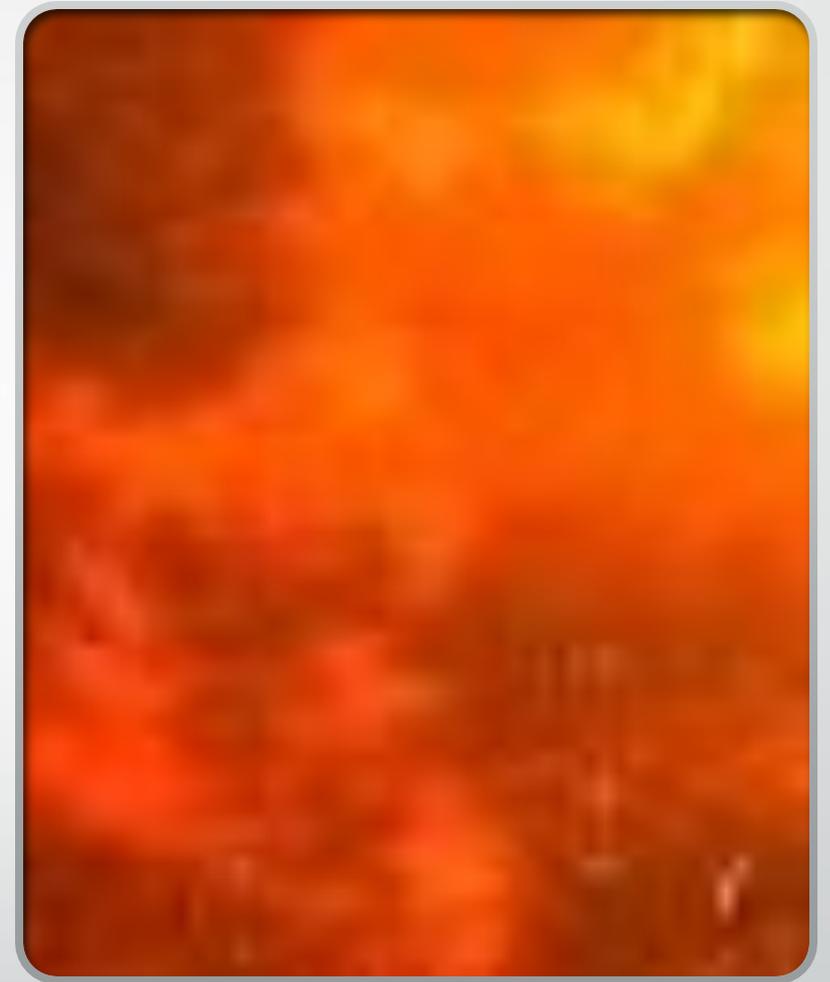


G is for grasslands

- Grassland fires occur sometimes here. In the grasslands many animals roam but so do wildfires. Grasslands sometimes do not get a lot of rain and the grass is hot and dry so lots of fires travel fast in the grasslands. Many animals here are in danger sometimes because of wildfires. If you go here, and you light a campfire try to control the fire, think of how fire spreads across the grasslands.

H is for heat

Heat is a major effect of a wildfire. A wildfire can reach to 800 C and 1,472 F. This temperature is so hot that it can melt metal. That is why wildfires are so disruptive. Heat can also suffocate people. You can choke or be killed in a matter of seconds.



This is a heatwave

I is for ignite

- A fire is ignited many ways. To ignite a fire is a dangerous thing to do. Watching a person ignite a fire is not a good thing to do, especially since it can ignite a wildfire. This can be dangerous to many people and risk many lives. Do not ignite a fire to destroy nature and our lives. If you see someone do this go and warn an adult that you trust.



A man ignited one of the deadliest wildfires in California.

J is for jumpers

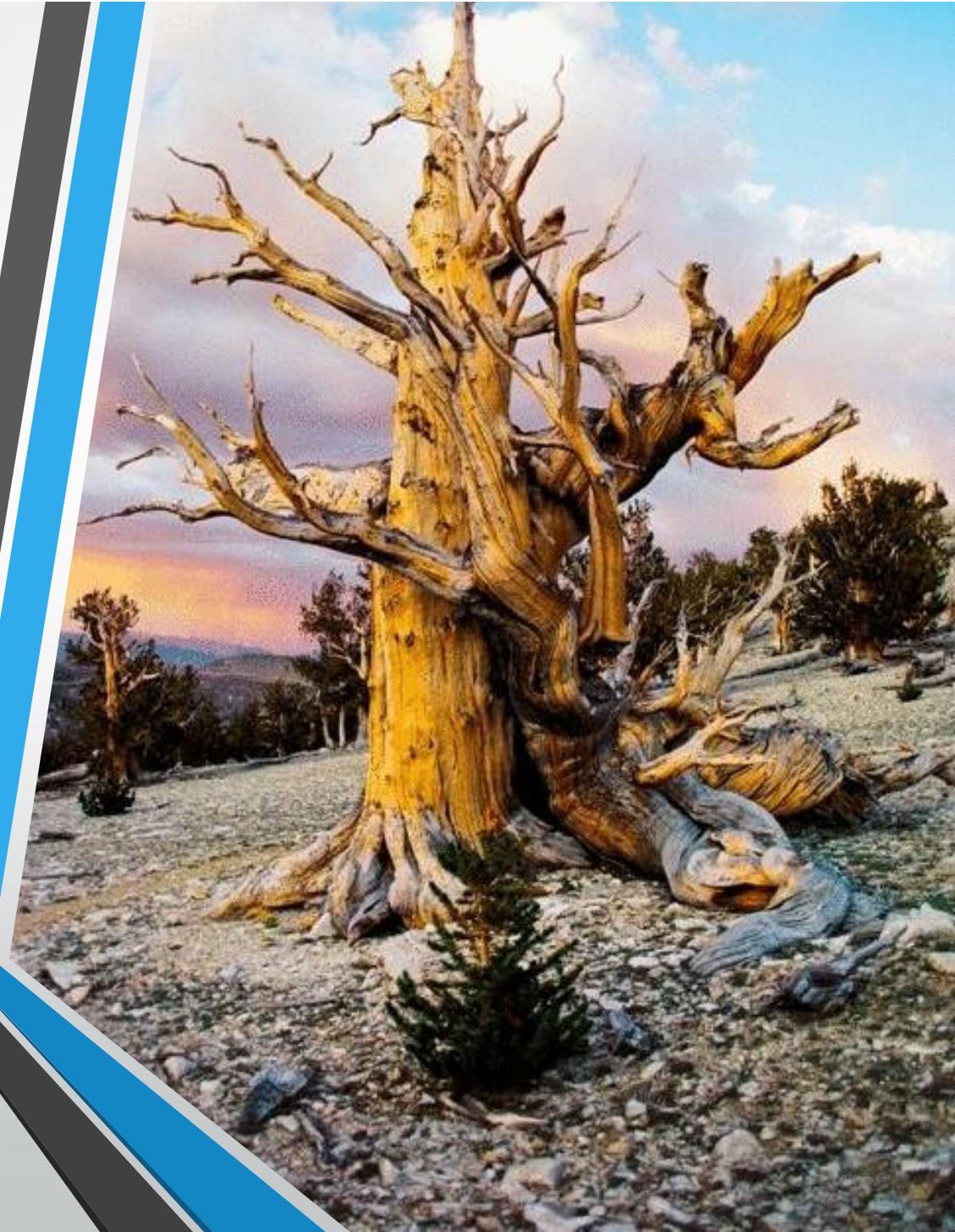
Did you know,
That the same
fabric that is used
to make
bulletproof vests,
bicycle frames,
kayaks, and
military helmets is
the same fabric
used to make
as jump suits?

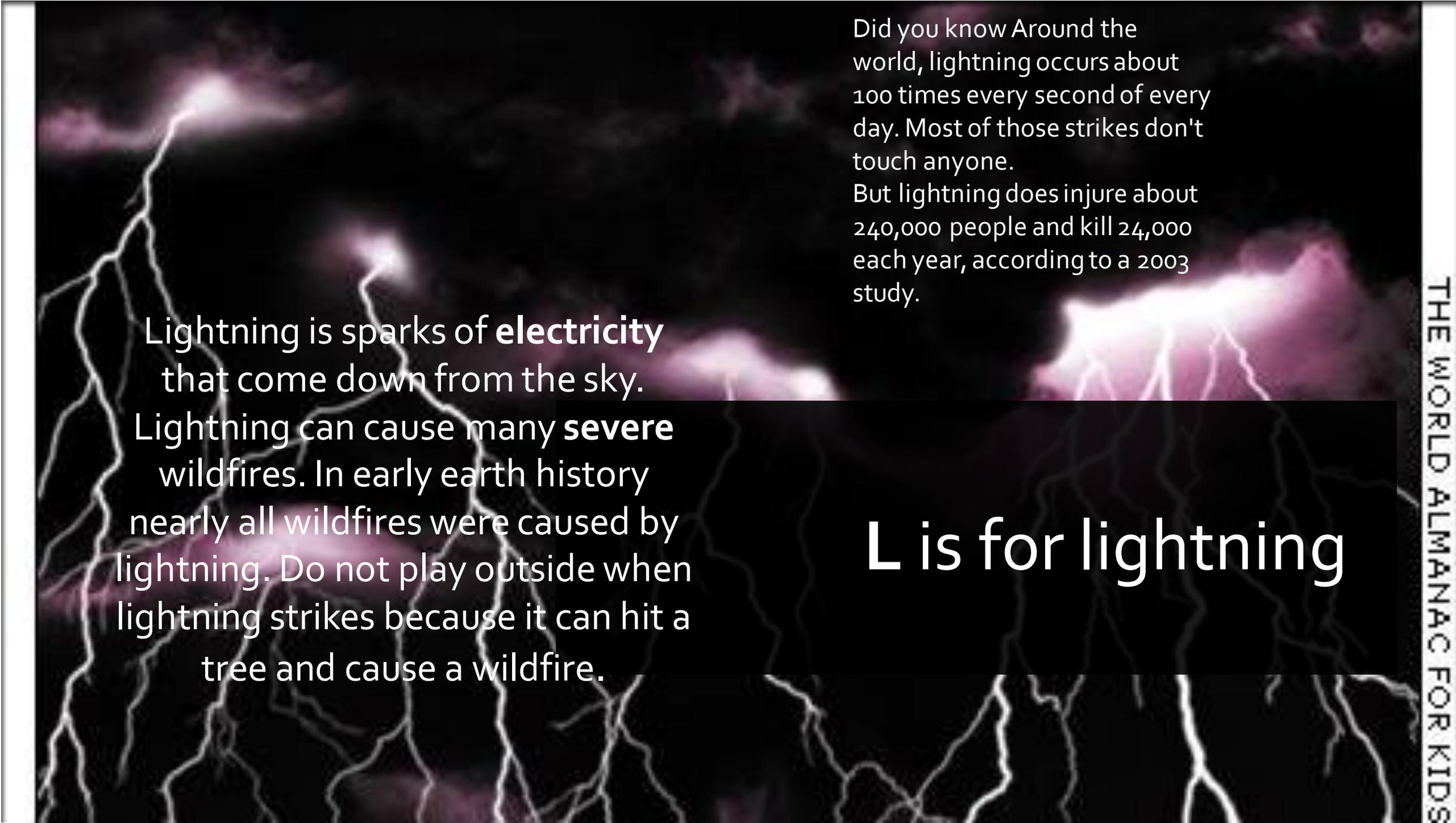
- The brave smoke jumpers who risk their lives must have parachutes to save their lives. Falling into your death is not a great thing. But these brave jumpers believe they can make it. You need to be brave to jump in to smoke and put other peoples' lives before yours.



K is for Kill

- Some wildfires are made on purpose to kill dead plants. They do this to make room for new growth and new crops. They are also made to enrich the soil. Also more nutrients are made this way.
- Did you know killing plants can also be a good thing? Weeds can also be killed which is a good thing for farmers. Also killing a plant can let new growth grow.





Lightning is sparks of **electricity** that come down from the sky. Lightning can cause many **severe** wildfires. In early earth history nearly all wildfires were caused by lightning. Do not play outside when lightning strikes because it can hit a tree and cause a wildfire.

Did you know Around the world, lightning occurs about 100 times every second of every day. Most of those strikes don't touch anyone.

But lightning does injure about 240,000 people and kill 24,000 each year, according to a 2003 study.

L is for lightning

M is for man-made

- Almost half of all wildfires are **man-made**. Man-made is when people create the situation or problem . Sometimes when there is a wildfire, it did not happen on its own. Somebody triggered it. One way to start a fire is with matches. Never use matches or a lighter without adult supervision.

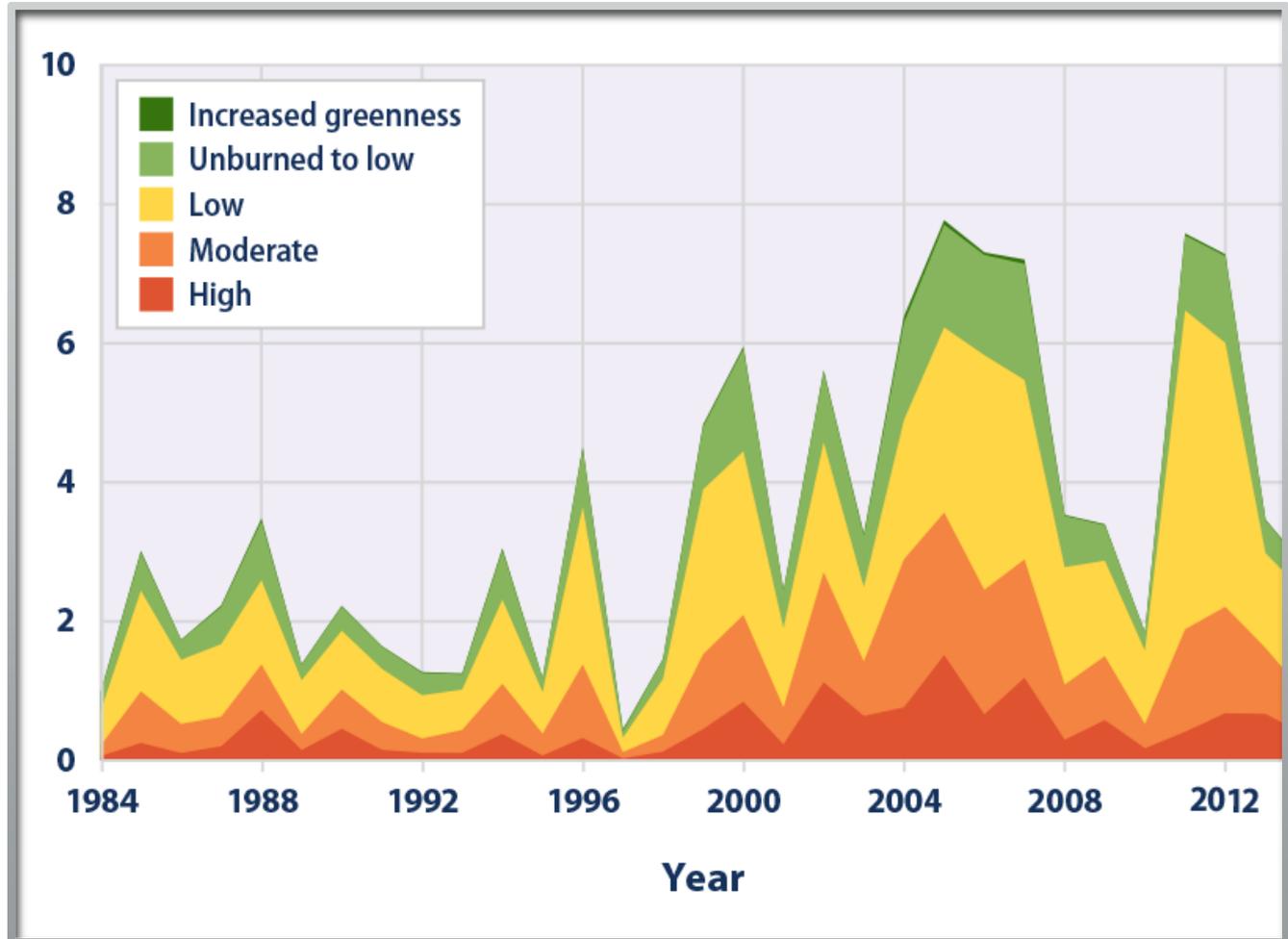
N is for Nine-One-One

- Nine-One-One is a when you call the policemen, fire fighters ,and the ambulance too. These three numbers can call the whole emergency department. To the Rescue! If a crown of fire surrounds you, call the same three numbers.
- If you get stuck in a bad situation where you have a life and death situation dial **911**. This number should be the fastest and easiest number to remember.



O is for Occurs

- Fires occur very often at anytime and anywhere. But mainly in the summer and fall. These seasons are hot and dry perfect for wildfires to fly. You should always be prepared and have a family meeting to discuss what to do and where to go in case of a wildfire.



P is for prevent

- There are lots of ways to prevent wildfires. One way is to never leave a fire unsupervised. Why? Although campfires can be fun for making smores if it is left unsupervised it can get out of control and become a wildfire. Never leave a wildfire unsupervised. Prevent a wildfire, not create one.

Q is for quick



- If you are caught in a wildfire quickly run to safety. Quickly not slowly. Run or dodge the wildfire. Do whatever you can quickly to escape. Your speed should be quick in any **emergency**.

R is for Russia

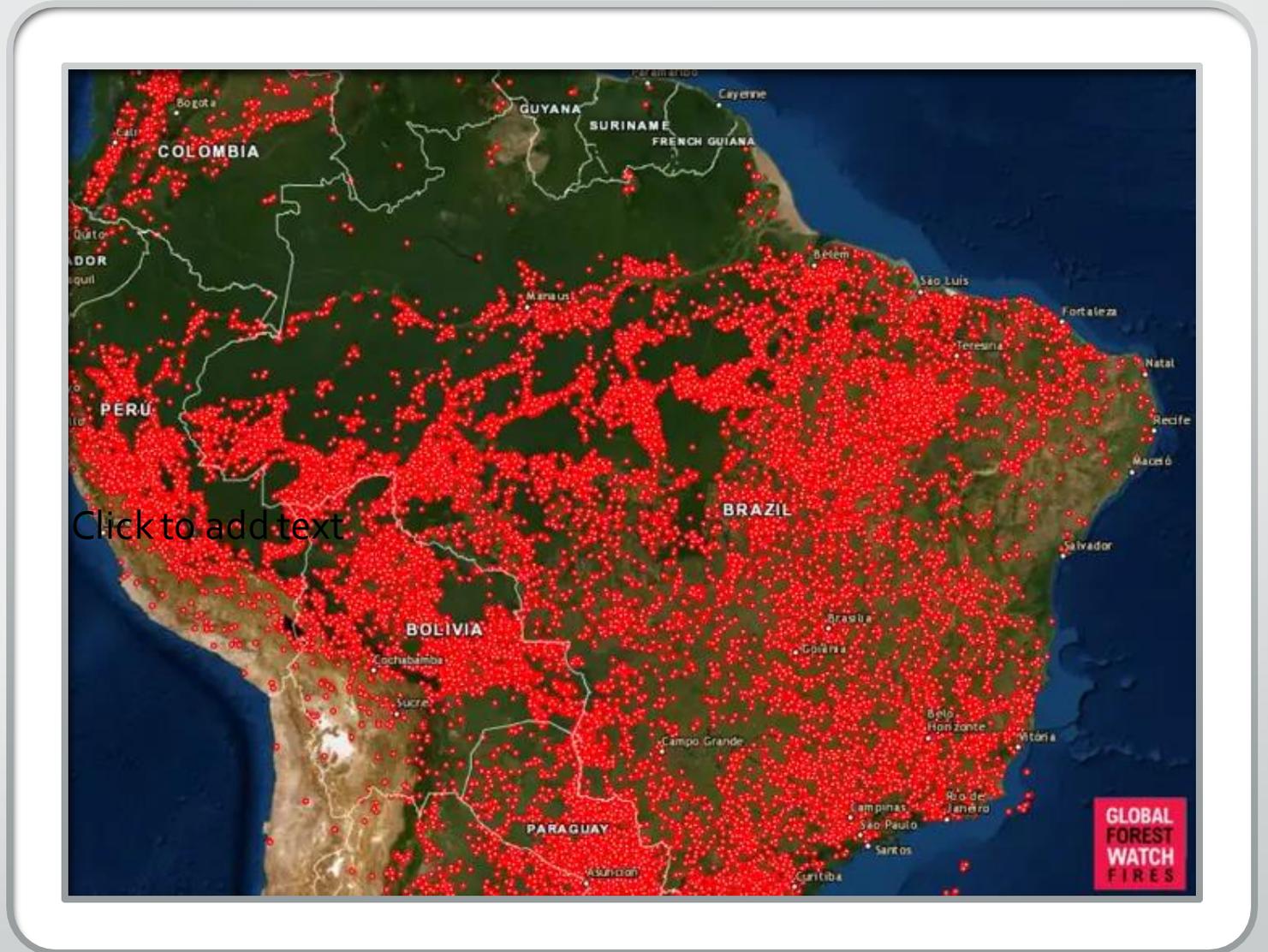
- Huge wildfires burned through Russia in 2002. Fires burning on nearly 148,000 acres of forest land, given fuel by hot dry summers. Almost 3,000 Russian firefighters have tried to battle the blazing wildfires. In some areas the wildfires have left thick dense smoke behind.



Did you know that some of the Russian wildfires have left many park rangers under-equipped. This is because wildfires had helped raise a dramatic drop in ranger service. So rangers were left dangerously under-equipped. Since many people evacuated there were less people to help.

S is for South America

- In 2019 wildfires blazed through the Amazon. There was a total of over 40,000 wildfires. Mostly from January to October. Some of these fires occurred naturally as they always do in Brazil's dry hot season.

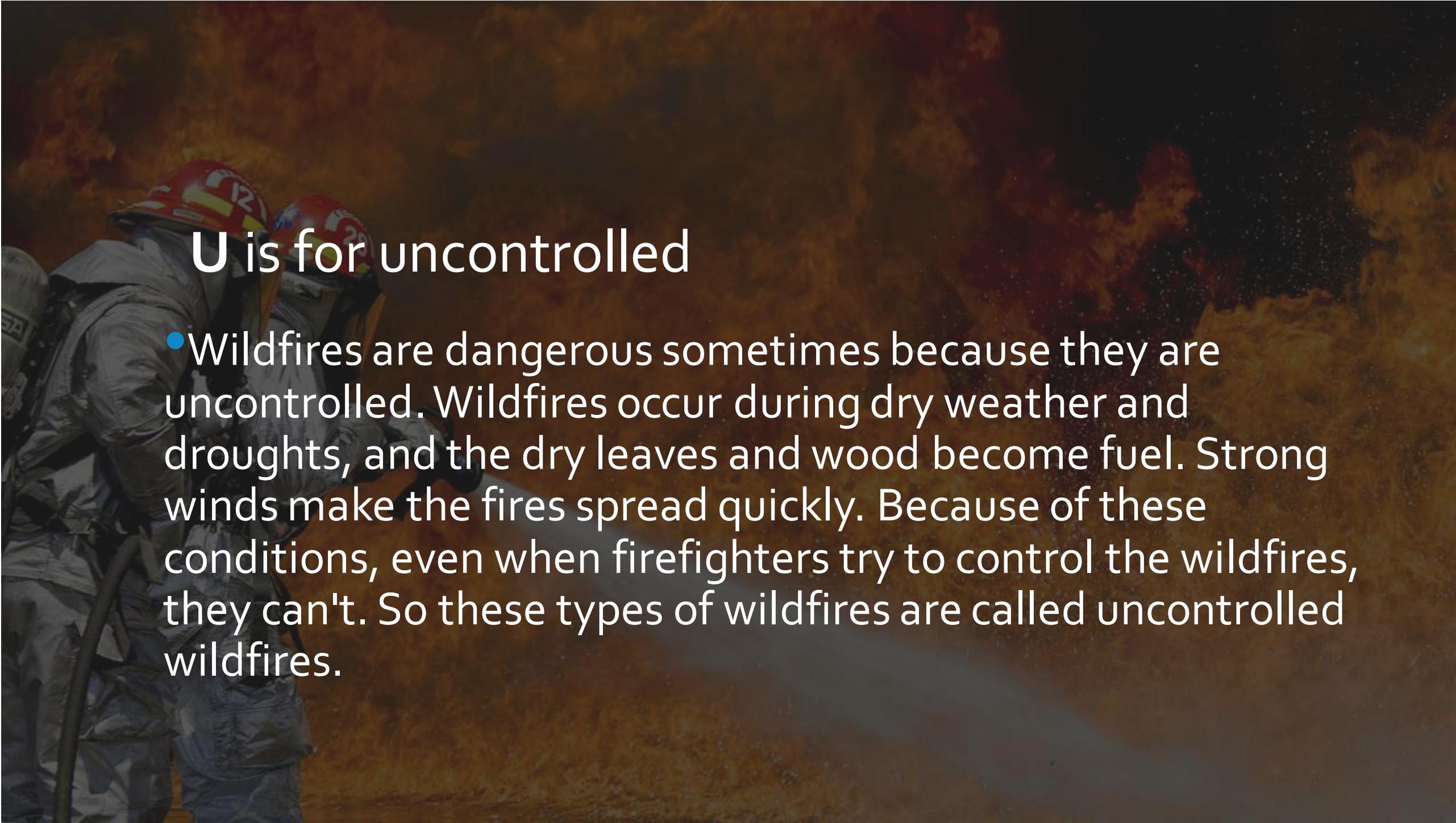


This map has a picture of the wildfires that happened in 2019

T is for Trapped

- In a wildfire sometimes people can't **evacuate** before the wildfire happens. They can get trapped. When you are trapped you can only do a few things to try and save your life, spray the lawn and your house with your hose, and you can dial 911. Even if you try all these things because wildfires are unpredictable, it could cause many deaths.



A photograph of two firefighters in full protective gear, including helmets and jackets, working in a large, intense wildfire. The background is filled with bright orange and yellow flames and thick black smoke. The firefighters are positioned on the left side of the frame, facing right towards the fire.

U is for uncontrolled

- Wildfires are dangerous sometimes because they are uncontrolled. Wildfires occur during dry weather and droughts, and the dry leaves and wood become fuel. Strong winds make the fires spread quickly. Because of these conditions, even when firefighters try to control the wildfires, they can't. So these types of wildfires are called uncontrolled wildfires.

V is for violent

- Wildfires are violent to all living things. Anything in the path of a wildfire gets wiped out. Many wildfires are started because humans leave fires unsupervised. We could stop some of these violent wildfires if we were more careful.



W is for warning

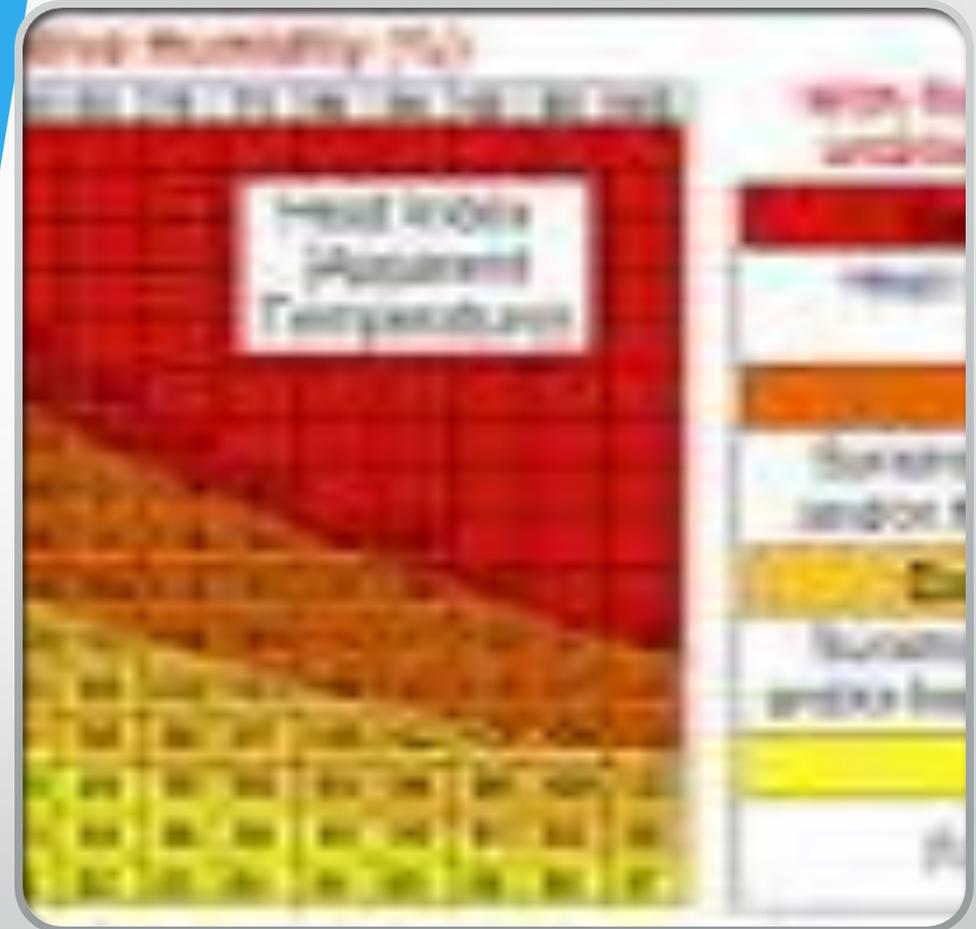
Sometimes warnings will help you so that you will, evacuate ahead of time. A warning can also help you prepare for a wildfire. Occasionally warnings will not, sound, so you can't always depend on them. Sometimes warnings will sound during a wildfire so you have to use your clues. Especially when it has not rained in a long time.



X is for eXtreme

Wildfires have extreme heat and temperatures. They also are extremely dangerous. Wildfires are extremely dangerous because of several reasons. One of the reasons is that it is so hot you can badly burn yourself and it can also kill you in a matter of seconds. So wildfires can be extremely dangerous in many ways.

This is a chart of all the extremely dangerous heat in 2019 during the summer.



Y is for you

- You can prepare for a wildfire by signing up for your community's warning system. You can also provide **emergency** alerts by letting other people know how to be safe. Or you can gather emergency supplies so your stocked up when danger comes. For more ways go to [Fema.gov](https://www.fema.gov).



FEMA

Z is for zig-zag

If you do not evacuate you may need to dodge the fire or zig-zag away from it. Burning trees, dead humans, burnt cars, and more are somethings you may need to zig-zag around to escape death. You don't always have to zig-zag around things. You can run but still you might need to zig-zag around certain objects.



This is a crowd of people. These people did not evacuate and will soon have to zig-zag or dodge a wildfire.

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Wildfires By Andrea Rivera

Fire Danger by Alice Andre-Clark(from the MUSE magazine)

By NASA Earth Observatory images by Joshua Stevens,

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Glossary

- **Burning-** An object that is on fire during a wildfire is burning.
- **Danger-** Danger is the possibility of death or destruction to someone or something.
- **911-** A number that signals the police, firefighters, or the ambulances.
- **Destroyed-** Destroyed means to damage an object or something so badly that it cannot be used again.
- **Emergency-** An urgent need of something or assistance. A person in an emergency may need some relief also.
- **Evacuate-** To go away from a place or move in order to escape a disaster or harm.
- **Man-made-** Something that is created or caused by human beings.
- **Wildfire Season-** A wildfire season is a certain time or place where wildfires are most likely to occur.