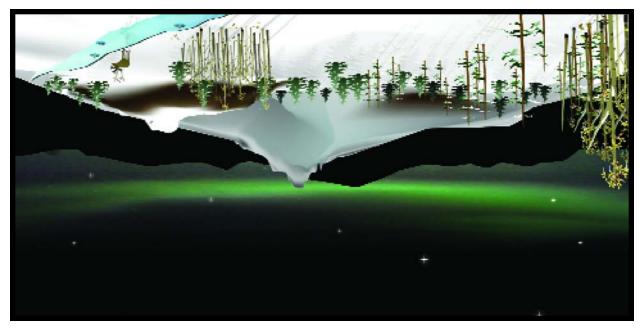


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glow, like curtains of color, they wave and they flow.

you'll see mysterious lights.

In the far, far North, when it's dark late at night, often





Each aurora is different, no two are alike. They are different colors and some are quite bright.

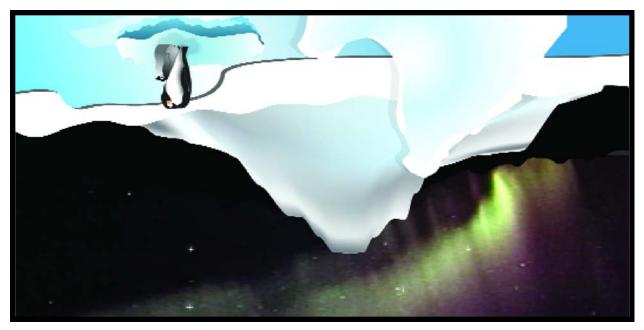
Up here in the North, when people see them at night, sometimes they call them the "Northern Lights."

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Green, blue and red, they can be quite bright! Down Green, blue and red, they can be quite bright! Down

night, when few people are out.

Auroras can happen far, far in the South, late in the





Every once in a while, maybe once a year, auroras can be seen almost anywhere.

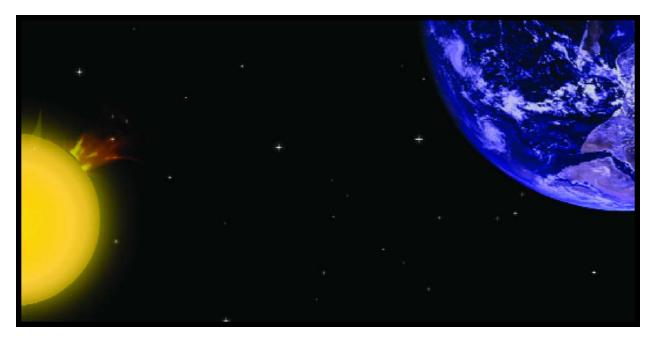
Just outside your home on a very dark night, you may see them glow and shimmer so bright.

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Solar wind blows to Earth and auroras are formed!

So what causes these mysterious lights that shimmer and glow in the sky late at night?





How do we know this? How are we sure? There are scientists who study the Sun and the Earth.

We know that the Sun causes auroras to glow, but there's still more to learn, and more we don't know.

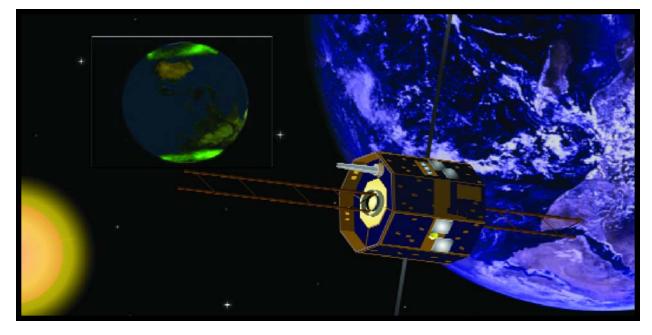
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places on Earth where auroras are formed!

The images show the Sun and its storms, and the

scientists study them one by one.

Satellites gather images of the Earth and the Sun, and





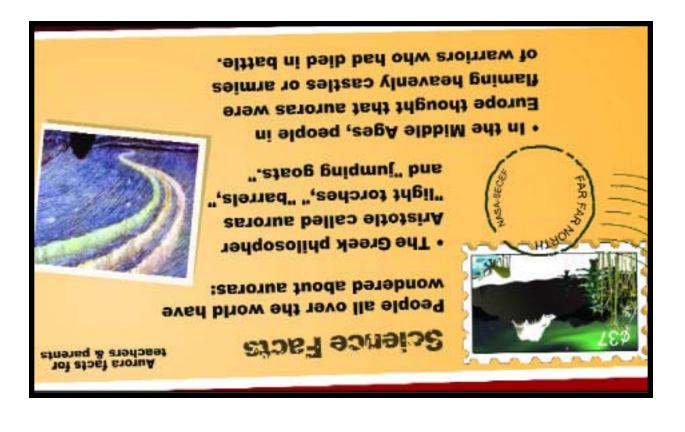
So, if you find yourself out late, late at night, and you happen to see these mysterious lights...

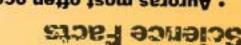
It's no mystery to you! You can tell everyone! You know they're auroras caused by the Sun.

THE END

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 Auroras most often occur near the north and south magnetic poles of the Earth, which are located very close to — but not directly on — the North

 Auroras are faint and can only be seen at night, when the sky is dark.



Science Facts

People all over the world have wondered about auroras:

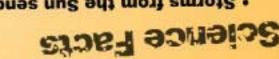
• Children in northern Norway used to believe that if they waved a napkin to the Northern Lights, the lights would swoop them into the sky.

• The Eskimos who lived on the lower Yukon River believed that auroras were the dance of animal spirits, especially those of deer, seals, and salmon.

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are what make up the solar wind. particles to Earth. These particles · Storms from the Sun send charged

atmosphere of Earth near the poles. magnetosphere send electrons to the between the solar wind and the called the magnetosphere. Interactions The Earth has a protective shield



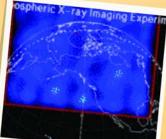
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Science Facts

Auroras over the southern United States



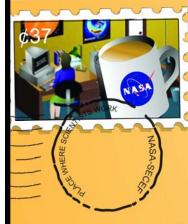


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• The Northern Lights are called the Aurora Borealis. The Southern Lights are called the Aurora Australis.

with a violet-purple color.



Science Facts

• Electrons make atoms in the atmosphere glow in different colors. Oxygen and nitrogen glowing in the atmosphere cause red and green auroras.

Nitrogen can also cause auroras



space shuttle

