

# 7 natural visual illusions that trick the world's most famous eyes

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According to experts, some agents cause these visual illusions to be the path of light, the Earth's curvature and the air temperature.

## 1. Illusion Fata Morgana



This strange illusion appears on the sea or a large lake, objects such as boats, coastline in the distance as if hovering in the air.

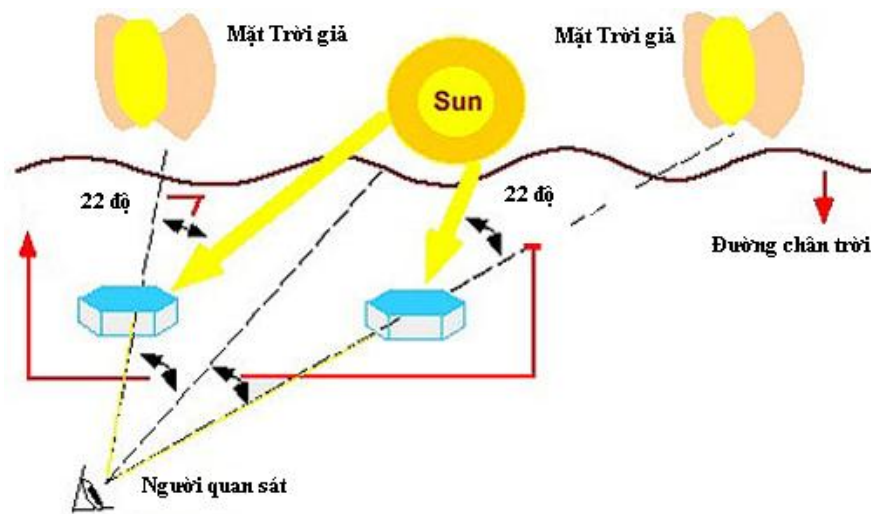
The cause of this phenomenon is due to the heat from the Sun that evaporates air in the sea or in the land. At this time, the elevated air meets a lower temperature, forming an environment with different air temperatures. When light hits the area it will be refracted or bent in different angles.

The human brain always assumes that light will travel in a straight line. So when the light is bent, touching the object and then reflecting back to the eye, we will still see the object appearing in the area of ??temperature interference, despite the fact that the object is in another area. In other words, our brain is deceived by refraction and thinks that the distant object is hovering in the air.

## 2. The fake Sun phenomenon



The fake Sun also called the Sun of the ghost or crystal halo is the phenomenon of appearing bright spots (False Sun) on both sides of the true Sun. There are even cases where a dim halo appears in an arc around the real Sun. This interesting natural phenomenon often occurs when the Sun rises or sets.



Principle of fake Sun phenomenon.(Photo: Internet)

According to scientists, the fake Sun occurs when the temperature is less than -30 degrees Celsius, the air has lots of moisture and ice crystals. When the Sun is near the horizon, on the same horizontal plane of the observer and ice crystals, the light passing through the ice crystal will be bent at an angle of 22 degrees before reflecting to the eye. At that time, ice crystals appeared as independent light sources creating a false Sun phenomenon.

### 3. Desert illusion



When walking in the desert wilderness, many people suddenly see a lake in front, an oasis with green trees, houses .

The strange natural phenomenon in the desert occurs because the light bends when moving through warm air with lower density. In the desert, the hottest air is near the surface and cool down when going high (as opposed to Fata Morgana), causing the light to be refracted downwards, bringing images of oases and lakes . from other places Create illusions for people traveling in the desert.

On the highway when it is hot, you can also see the same illusion as the desert.

### 4. Ghost Brocken



Brocken specter is named after the place name for the first time to recognize this mysterious natural phenomenon, the highest peak of the Harz range in Germany.

Climbers can see a huge "ghost"-like figure radiating rainbow aura in the far mist. In fact, ghosts are their own shadows.

The cause of this mysterious phenomenon occurs because the sunlight from the back illuminates the observer, causing their shadows to "fall" to the clouds or the front fog, at high latitudes. At that moment, the rainbow appeared to make the shadow enveloped in a colorful halo.

## **5. Self-driving cars uphill in magnet hills**



Magnet hills are an artificial visual illusion, when you come here, you will see automatic cars back up the slope. This phenomenon happened because the hill next to the slope tilted in a way that made the road seem to be sloping up. So, if you can shield the visual cues around, you will realize that the road ahead is actually sloping down and of course, the car is plummeting down the slope rather than automatically climbing the slope.

One of the most famous places in the world about this illusion is the Srinagar-Leh highway in the hill in Ladakh province, India.

## **6. Bright columns like "alien landing"**



The light column is the phenomenon of many columns of light shining straight into the sky in winter in cold climates.

In fact, light columns are optical phenomena in the atmosphere that occur because light reflects from small ice crystals suspended in the air vertically.

## **7. Light green when the Sun goes down**



Green flashes will appear extremely fast, lasting less than a few seconds, just before sunset or just before sunrise. Therefore, it is very difficult to observe this miraculous natural phenomenon.

This rare natural phenomenon occurs because of how light interacts with the Earth's atmosphere.

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