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LEARN ABOUT THE MAY 2024 GEOMAGNETIC STORM

A background image showing a view of Earth from space, with a bright green aurora visible along the horizon. The Earth's surface is covered in clouds, and city lights are visible as small orange-yellow dots.

**WELCOME TO OUR
PRESENTATION:-)**

INTRODUCTION TO

**"Geomagnetic Storms: Understanding the
Phenomenon "May 2024 Events"**

Importance:-)

- Definition: Geomagnetic storms are disturbances in Earth's magnetic field caused by solar wind and coronal mass ejections.
- Affects satellite operations, communication systems, navigation, and Earth's climate.
- Objective: To visualize and analyze the May 2024 geomagnetic storms.

MAY 2024 GEOMAGNETIC STORMS OVERVIEW:-)

- "Key Events and Timeline"

Table or graphic: List of storms with dates, intensity (Kp index), and effects.

Notable events:-)

01

- May 5, 2024: G3-class storm (Kp=7)

02

- May 12, 2024: G2-class storm (Kp=6)

NASA RESOURCES:-)

1. NASA Space Weather Prediction Center (SWPC)
2. NASA's Geomagnetic Storms page
3. NASA's Earth Observatory

- **Data Sources:-)**

1. NASA's OMNIWeb
2. NOAA's Space Weather Prediction Center
3. ESA's Space Weather Office

CAUSES OF GEOMAGNETIC STORMS :-)

01

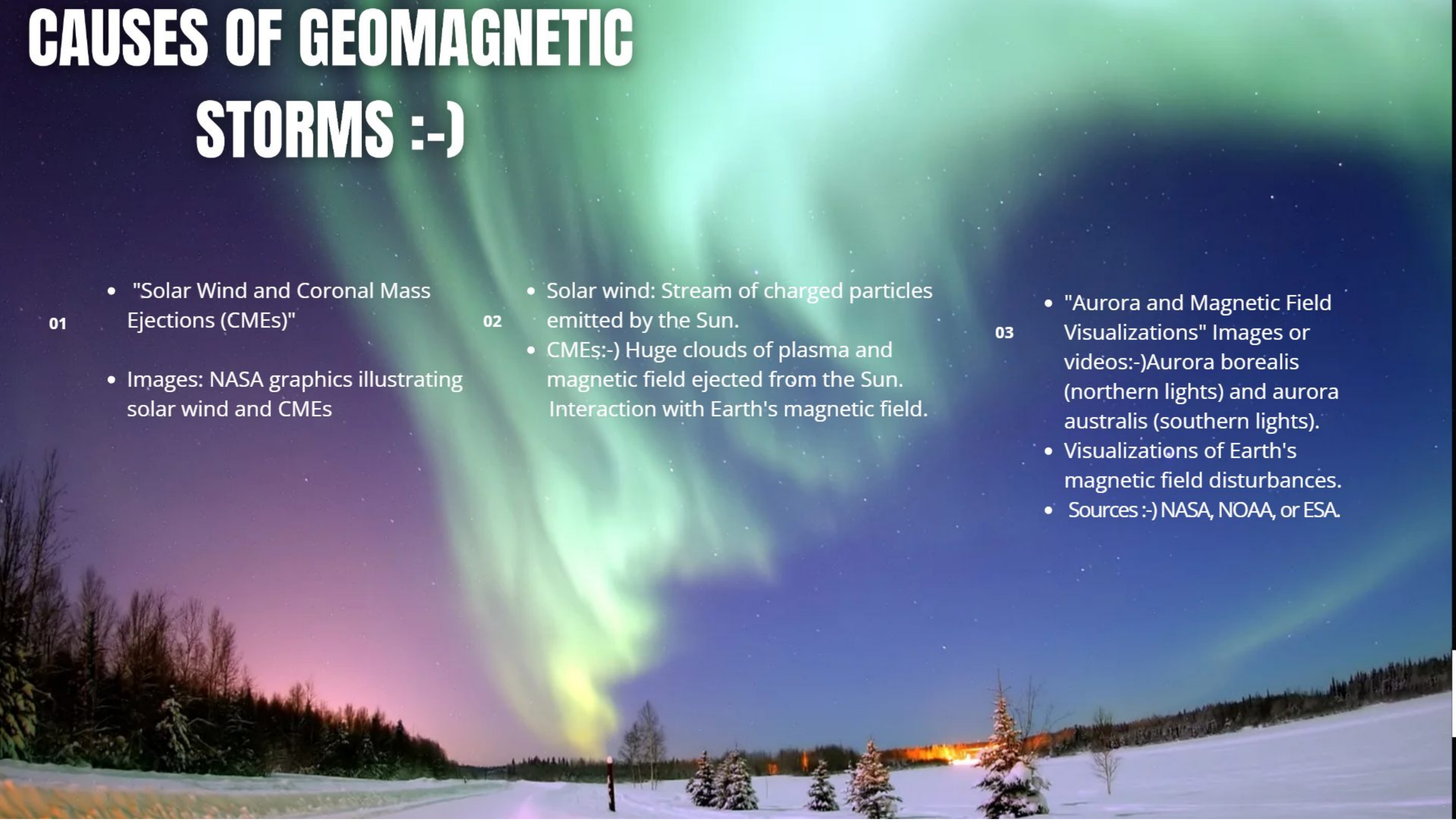
- "Solar Wind and Coronal Mass Ejections (CMEs)"
- Images: NASA graphics illustrating solar wind and CMEs

02

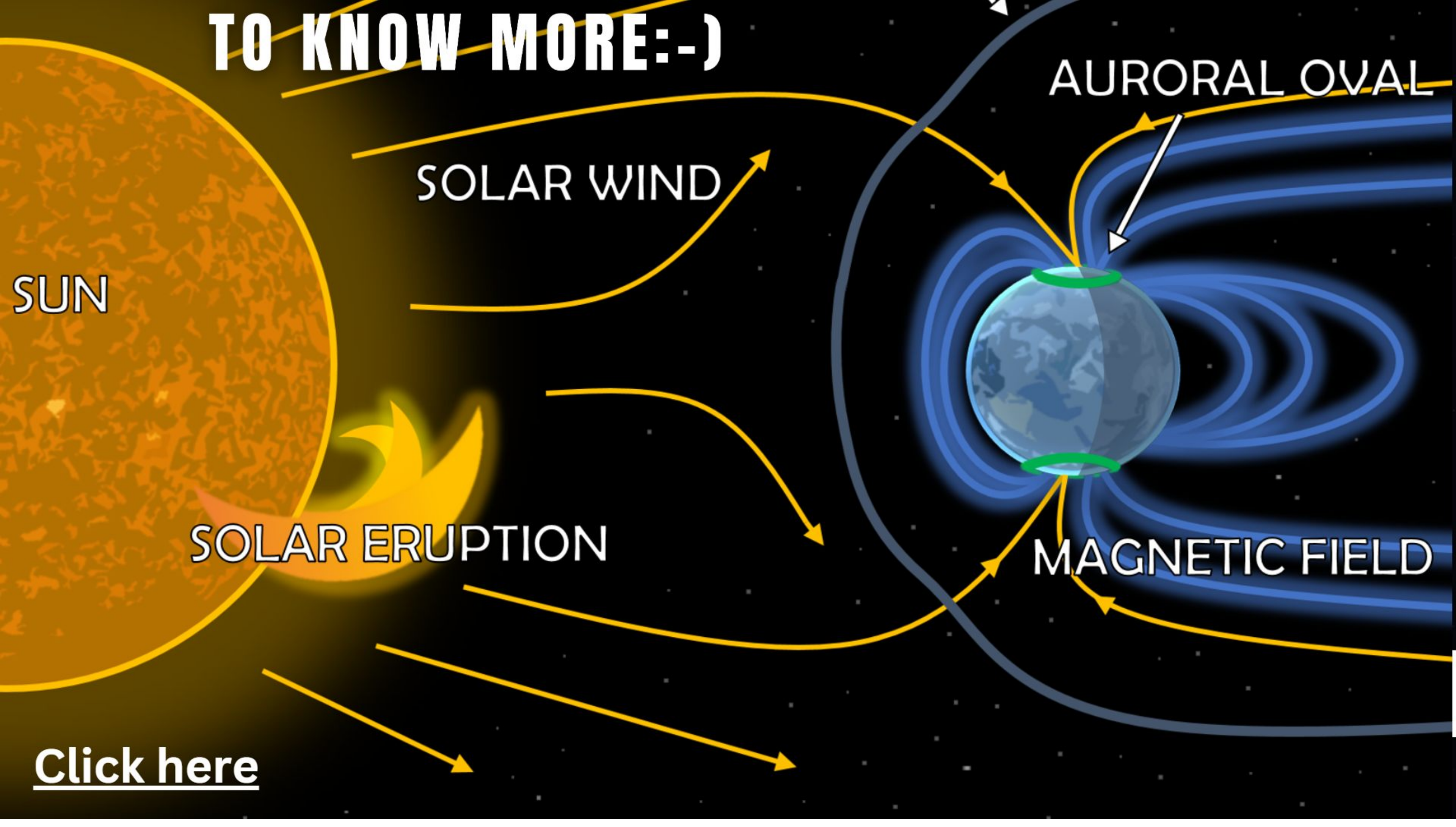
- Solar wind: Stream of charged particles emitted by the Sun.
- CMEs:-) Huge clouds of plasma and magnetic field ejected from the Sun. Interaction with Earth's magnetic field.

03

- "Aurora and Magnetic Field Visualizations" Images or videos:-)Aurora borealis (northern lights) and aurora australis (southern lights).
- Visualizations of Earth's magnetic field disturbances.
- Sources :-) NASA, NOAA, or ESA.



TO KNOW MORE:-)



SUN

SOLAR WIND

SOLAR ERUPTION

AURORAL OVAL

MAGNETIC FIELD

Click here

EFFECTS ON EARTH:-)

01

- Satellite malfunctions and communication disruptions.
- Power grid fluctuations.
- Increased radiation exposure for astronauts and airline passengers.
- Effects on Earth's climate and weather patterns.

CHALLENGES AND OPPORTUNITIES:-)

02

- Predicting and Preparing for Geomagnetic Storms
- Improving forecasting accuracy.
- Developing mitigation strategies.
- Enhancing space weather monitoring.

• References:-)

1. Use NASA's official graphics, images, and data.

2. Incorporate visualizations, animations, or videos.

3. Keep text concise and bullet-pointed.

4. Use consistent formatting and colors.

5. Practice your presentation!

SOURCE:-)

ABOUT US:-)



1. [How the Impending Major Geomagnetic Storm Will Impact Earth—and Where to See Auroras](#)
2. [Northern Lights possible as solar storms gather](#)
3. [Second strongest solar flare since 2019 prompts geomagnetic storm alert](#)
4. [Solar storms of May 2024 - ESA Space Environment](#)
5. [May 2024 solar storms - Wikipedia](#)
6. [Strong geomagnetic storm reaches Earth, continues through weekend](#)
7. [May 2024 solar storms - Wikipedia](#)
8. [How NASA Tracked the Most Intense Solar Storm in Decades](#)
9. [How NASA tracked the most intense solar storm in decades - Phys.org](#)
10. [How the Impending Major Geomagnetic Storm Will Impact Earth—and Where to See Auroras](#)
11. [Northern Lights possible as solar storms gather](#)
12. [Second strongest solar flare since 2019 prompts geomagnetic storm alert](#)
13. [Solar storms of May 2024 - ESA Space Environment](#)
14. [May 2024 solar storms - Wikipedia](#)
15. [Strong geomagnetic storm reaches Earth, continues through weekend](#)
16. [May 2024 solar storms - Wikipedia](#)
17. [How NASA Tracked the Most Intense Solar Storm in Decades](#)
18. [How NASA tracked the most intense solar storm in decades - Phys.org](#)

TEAM CURIOSITY CREW

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- SAHANA N
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- ANUSHREE N
- AMRUTHA M
- DARSHINI R

THANK YOU