



Maratha Vidya Prasarak Samaj's
G.M.D. Arts, B.W. Commerce & Science College, Sinnar Tal- Sinnar,
Dist - Nashik -422103 (M.S.) India

Website: www.gmdcollege.in

Affiliated to Savitribai Phule Pune University, Pune

Best College Award by SPPU AY 2012-13

AISHE: C-41292

NAAC Reaccredited 'B++' Grade

Id.No.PU/NS/ASC/013/(1969)

ISO 9001: 2015 Certified College

Email: sinnarcollege001@yahoo.com

Date- 27/02/2025



Department of Geography

National Science Day

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Name of the Department/ Committee	Department of Geography												
Name of the Coordinator	Mr S.B. Bhise												
Title of the Event/ Programme	National Science Day												
Level (National, International, State, University, District, College)	Departmental Level												
Date /Period of Event/ Programme	27/02/2025												
Objective of the Event/Programme	1. To awareness the Student of National Science Day 2. Understand the relationship of Geography and Science of the Student												
Sponsored Agency /Institute	Self-Finance												
Total No. of the Participant	Girls: 30 Boys:08 Total: 38												
Total No. of the Teacher Participant	Female: 01 Male: 06												
Name of the Expert /Invitee/Lecturer: For this programme the Expertise has delivered lectures the details are as follows-													
<table border="1"><thead><tr><th>Sr No</th><th>Name of Expert</th><th>Date</th><th>Topic</th></tr></thead><tbody><tr><td>01</td><td>Mr Amol H Kategovkar</td><td>27/02/2025</td><td>C.V. Raman and Raman Effect</td></tr><tr><td>02</td><td>Mr Amol L Bhagat</td><td>27/02/2025</td><td>Geography and its concern with science</td></tr></tbody></table>		Sr No	Name of Expert	Date	Topic	01	Mr Amol H Kategovkar	27/02/2025	C.V. Raman and Raman Effect	02	Mr Amol L Bhagat	27/02/2025	Geography and its concern with science
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Venue of the Event/ Programme	Department of Geography												
Programme Outcome <ul style="list-style-type: none">To know the Student More about National Science DayJob Opportunity in Geography with use of scientifically knowledge Field													

National Science Day 27th Feb 2025

मराठा विद्या प्रसारक समाजाचे गुरुवर्य मामासाहेब दांडेकर कला भगवंतराव वाजे वाणिज्य व विज्ञान महाविद्यालय सिन्नर या ठिकाणी भूगोल विभागाच्या वतीने 28 फेब्रुवारी 2025 हा दिवस जागतिक विज्ञान दिन म्हणून साजरा करण्यात आला. या निमित्ताने मंचावर कार्यक्रमाचे अध्यक्ष म्हणून महाविद्यालयाचे प्रभारी प्राचार्य श्री आर व्ही पवार, राज्यशास्त्र विभागाचे विभाग प्रमुख श्री ए ए पोटे, कार्यक्रमाला प्रमुख मार्गदर्शक म्हणून लाभलेले रसायनशास्त्र विभागाचे प्राध्यापक डॉ ए एच काटेगावकर, भूगोल विभागाचे विभाग प्रमुख श्री एस बी भिसे, भूगोल विभागातील प्राध्यापक डॉ बी.आर. तांबे, श्री एल ए कळसकर, श्री ए एल भगत, श्रीमती एन ए उगले व विद्यार्थी उपस्थित होते.

कार्यक्रमाच्या प्रमुख मार्गदर्शनामध्ये डॉ काटेगावकर यांनी विद्यार्थ्यांना वैज्ञानिक दृष्टिकोन व त्या अनुषंगाने भविष्यात करावयाचे संशोधनात्मक कार्य यासाठी विद्यार्थ्यांनी कशा प्रकारे दृष्टिकोन ठेवावा यावर भाष्य केले. तसेच विभागातील प्राध्यापक श्री ए एल भगत यांनी राष्ट्रीय विज्ञान दिनाचे महत्त्व तो का साजरा केला जातो व विज्ञान व भूगोलाचा कसा सहसंबंध आहे हे विविध उदाहरणांच्या सहाय्याने पावर पॉइंट सादरकरणाच्या माध्यमातून विद्यार्थ्यांना पटवून दिले.

कार्यक्रमाच्या अध्यक्षीय मनोगतातून आर व्ही पवार यांनी विज्ञानाचे मनुष्याच्या जीवनातील अनन्यसाधारण महत्त्व कशाप्रकारे आहे यावर विद्यार्थ्यांचे चर्चा केली. त्यामुळे मनुष्य जीवन हे विज्ञानाशिवाय शक्य नाही असे मत व्यक्त केले. कार्यक्रमात विभागाचे विभाग प्रमुख श्री एस बी भिसे यांनी कार्यक्रमाचे प्रास्ताविक ठेवले तर विभागातील प्राध्यापक श्री बी आर तांबे कार्यक्रमाचे आभार प्रदर्शन केले. कार्यक्रमाच्या आयोजनासाठी प्राध्यापक कळसकर, श्रीमती उगले, व शिक्षकेतर कर्मचारी एस ए जाधव यांचे सहकार्य लाभले. कार्यक्रमाला एकूण 38 विद्यार्थी उपस्थित होते व एकूण सात शिक्षक कर्मचारी कार्यक्रमास उपस्थित होते.

National Science Day 27th Feb 2025

The Maratha Vidya Prasarak Samaj's Guruvaraya Mamasahab Dandekar Arts, Bhagwantrao Waje Commerce, and Science College, Sinnar, celebrated February 28, 2025, as World Science Day on behalf of the Department of Geography.

On this occasion, the event was presided over by the college's **Acting Principal, Mr. R. V. Pawar**, with **Mr. A. A. Pote**, Head of the Political Science Department, as the chief guest and guide for the event. Also present on

stage were **Dr. A. H. Kategovkar**, Professor of Chemistry; **Mr. S. B. Bhise**, Head of the Geography Department; and faculty members from the Geography Department, including **Mr. B. R. Tambe**, **Mr. L. A. Kalaskar**, **Mr. A. L. Bhagat**, and **Mrs. N. A. Ugale**, along with students.

In his keynote speech, **Dr. Kategovkar** discussed **the importance of scientific thinking and how students should adopt a research-oriented approach for the future**. Additionally, **Mr. A. L. Bhagat** explained the significance of **National Science Day**, its purpose, and **the interrelation between Science and Geography** through a **PowerPoint presentation** with various examples.

In his **presidential address**, **Mr. R. V. Pawar** emphasized **the indispensable role of science in human life**, stating that human existence is unimaginable without scientific advancements. **Mr. S. B. Bhise**, Head of the Department, delivered the event's **introductory speech**, while **Mr. B. R. Tambe** proposed the **vote of thanks**.

The event was successfully organized with the support of **Professors Kalaskar and Ugale**, as well as **non-teaching staff member Mr. S. A. Jadhav**. A total of **38 students and 7 faculty members** attended the program.

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Date- 25/02/2025

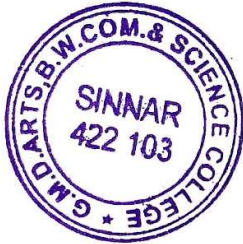
Department of Geography-
राष्ट्रीय विज्ञान दिन सूचना

भूगोल विभागातील एस.वाय/टी.वाय बी.ए भूगोल स्पेशल तसेच एम. ए भूगोल प्रथम व द्वितीय वर्षातील सर्व विद्यार्थ्यांना कळविण्यात येते की गुरूवार दिनांक 27 फेब्रुवारी 2025 रोजी महाविद्यालयात भूगोल विभागाच्या वतीने राष्ट्रीय विज्ञान दिन साजरा करण्यात येणार आहे तरी सर्व विद्यार्थ्यांनी सकाळी 8.30 मिनिटांनी भूगोल विभागात हजर राहावे.

Notice

All students of the Geography Department from S.Y./T.Y. B.A. (Geography Special) as well as M.A. Geography (First and Second Year) are hereby informed that National Science Day will be celebrated in the college on **Thursday, 27th February 2025**, on behalf of the Geography Department.

Therefore, all students are requested to be present in the Geography Department at **8:30 AM**.



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DEPARTMENT OF GEOGRAPHY
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And Science College, Sinnar

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Maratha Vidya Prasarak Samaj Nashik
G.M. D Arts B.W. Commerce and Science College Sinnar
Department of Geography
National Science Day 27th Feb 2025



.....

Introduction	:	Mr S.B.Bhise
Globe Worship	:	With Hand Of Chief Guest
Facilitation of Chief Guest	:	1) Mr R.V. Pawar (I/C Principal) 2) Mr A.A. Pote
Chief Gest Nots	:	1) Dr A.H.Kategaovkar 2) Mr A.L. Bhagat
President Address	:	Mr R.V. Pawar (I/C Principal)
Moderation	:	Dr B.R.Tambe
Vote of Thanks	:	Mr A.L. Kalaskar

..... Thank you.....


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Date- 2. 02/20/25

Organize By Department of Geography
Attendance Report



Programme Name – National Science Day

Sr No	Student Name	Class	Sign
1	Dholi Nikita Uttam	TYBA	
2	Waje Nikita Vikas	TYBA	
3	Palve Vaishnavi Ranjan	S.Y.B.A	
4	Ugale Riya Sanjay	S.Y.B.A	R.S.Ugale
5	Patole Rupali Sanjay	S.Y.B.A	
6	Kadale Gauki Dilip	S.Y.B.A	
7	Shinde Sakshi Gautam	S.Y.B.A	
8	Shinde Subhani Haushiram	S.Y.B.A	
9	Talpe Laxmi Uttam	S.Y.B.A	
10	Lohare Aparna Ashok	S.Y.B.A	
11	Mawale Mohika Eknath	S.Y.B.A	
12	Pangarkar Rasika Satish	S.Y.B.A	
13	Pagar Sanskruti Bhagwan	S.Y.B.A	
14	Sali Sonali Namdev	S.Y.B.A	
15	Shaikh Saniya Alichmad	S.Y.B.A	
16	Pachore Aakanksha Balu	S.Y.B.A	A.P.Pachore
17	Gaikwad Anilash Shashikant	S.Y.B.A	
18	Sathe Vishal Balu	S.Y.B.A	
19	Worhal Nagesh Vishwanath	M.A.M.Sc	
20	Sharma Priyanka Jitendra	MAIMSC I	
21	Phad Archana Uttam	MAIMSC II	
22	Sonawane Gayatri Anna	T.Y.B.A	
23	Shelke Vaishnavi Walmik	T.Y.B.A	
24	Dagale Priti Ramdas	T.Y.B.A	
25	Ghude Dnyaneshwari Subhash	T.Y.B.A	
26	Boobade Vandana Vasant	MAIMSC I	
27	Thak Ashwini Upat	MAIMSC-I	
28	Udale Durgesh Vilas	T.Y.B.A	
29	Phad Gauki Ramesh	MAIMSC II	
30	Sanap Arati Subhash	T.Y.B.A	

Department of Geography G.M. D Arts B.W. Commerce and Science College Sinnar ,



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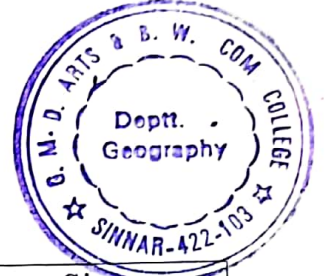
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Date- 2 /02/2025

Organize By Department of Geography
Attendance Report



Programme Name – National Science Day

Sr No	Student Name	Class	Sign
31)	Mr. Anur A. Patil	Asst. Prof	<i>[Signature]</i>
32)	Dr. Anmol H. Kategaonkar	Associate prof.	<i>[Signature]</i>
33)	Mr. Dandeeep B. Bhise	Asst. Prof	<i>[Signature]</i>
34)	Smt. Ugale N.A.	Asst. Prof.	<i>[Signature]</i>
35)	Sharma Kamal Nitendra	MA/MSc	K.T. Sharma
36)	sadgir Dipika sudam	T.Y. B.A	<i>[Signature]</i>
37)	wakchoure Omkar Radaram	MA/MSc.	<i>[Signature]</i>
38)	Salake mukund Tukaram	MA/MSc	<i>[Signature]</i>
39)	Bairagi mahesh	MA/MSc	<i>[Signature]</i>
40)	Shinde Vishal Tukaram	MA/mSc	<i>[Signature]</i>
41)	raware sakshi Anil	MA/MSc	<i>[Signature]</i>
42)	vaidya sai Santosh	SI/BA	<i>[Signature]</i>
43)	Dr. B. R. Tambe.	Asst. Prof	<i>[Signature]</i>
44)	Wagh shital Sanjay	SV. BA	<i>[Signature]</i>



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Date- 27/02/2025

Photo Report



Latitude: 19.850296
Longitude: 73.984955
Elevation: 694.81±100 m
Accuracy: 7.6 m
Time: 02-27-2025 09:20
Note: National Science Day 2025

Powered by Not

The program begins with the worship of the Earth by all the prominent dignitaries



Latitude: 19.850385
Longitude: 73.984888
Elevation: 694.71±82 m
Accuracy: 6.3 m
Time: 02-27-2025 09:22
Note: National Science Day 2025

Powered by NoteCam

The program chairman, the college principal, R. V. Pawar, is guiding the students



Latitude: 19.85032
 Longitude: 73.984886
 Elevation: 695.41±39 m
 Accuracy: 6.3 m
 Time: 02-27-2025 09:19
 Note: National Science Day 2025

The department head, S. B. Bhise, is introducing the program



Latitude: 19.850284
 Longitude: 73.984858
 Elevation: 694.61±76 m
 Accuracy: 6.8 m
 Time: 02-27-2025 09:28
 Note: National Science Day 2025

The program's chief guide, Dr. Kategovkar, is interacting with the students

Programme Link-

<https://www.facebook.com/share/p/1Fahd5wnqf/>



S. B. Bhise
 HEAD
 DEPARTMENT OF GEOGRAPHY
 G.M.D Arts, B.W. Commerce



Maratha Vidya Prasarak Samaj Nashik

G.M.D Arts B.W.Commerce and Science College Sinnar
Department of Geography

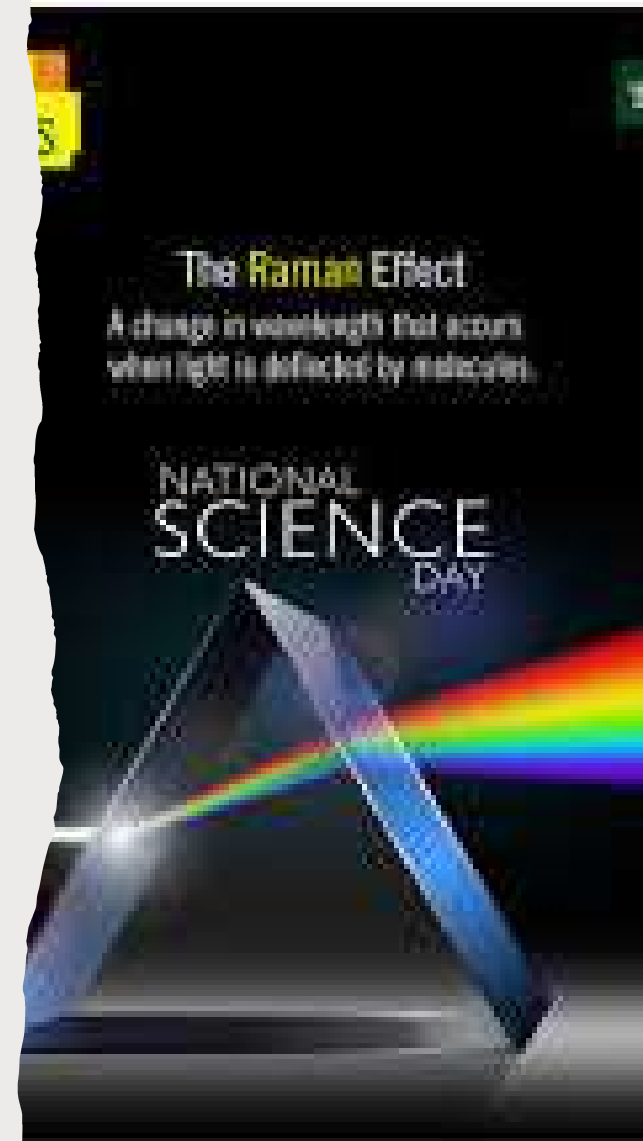
National Science Day & Its Connection with Geography

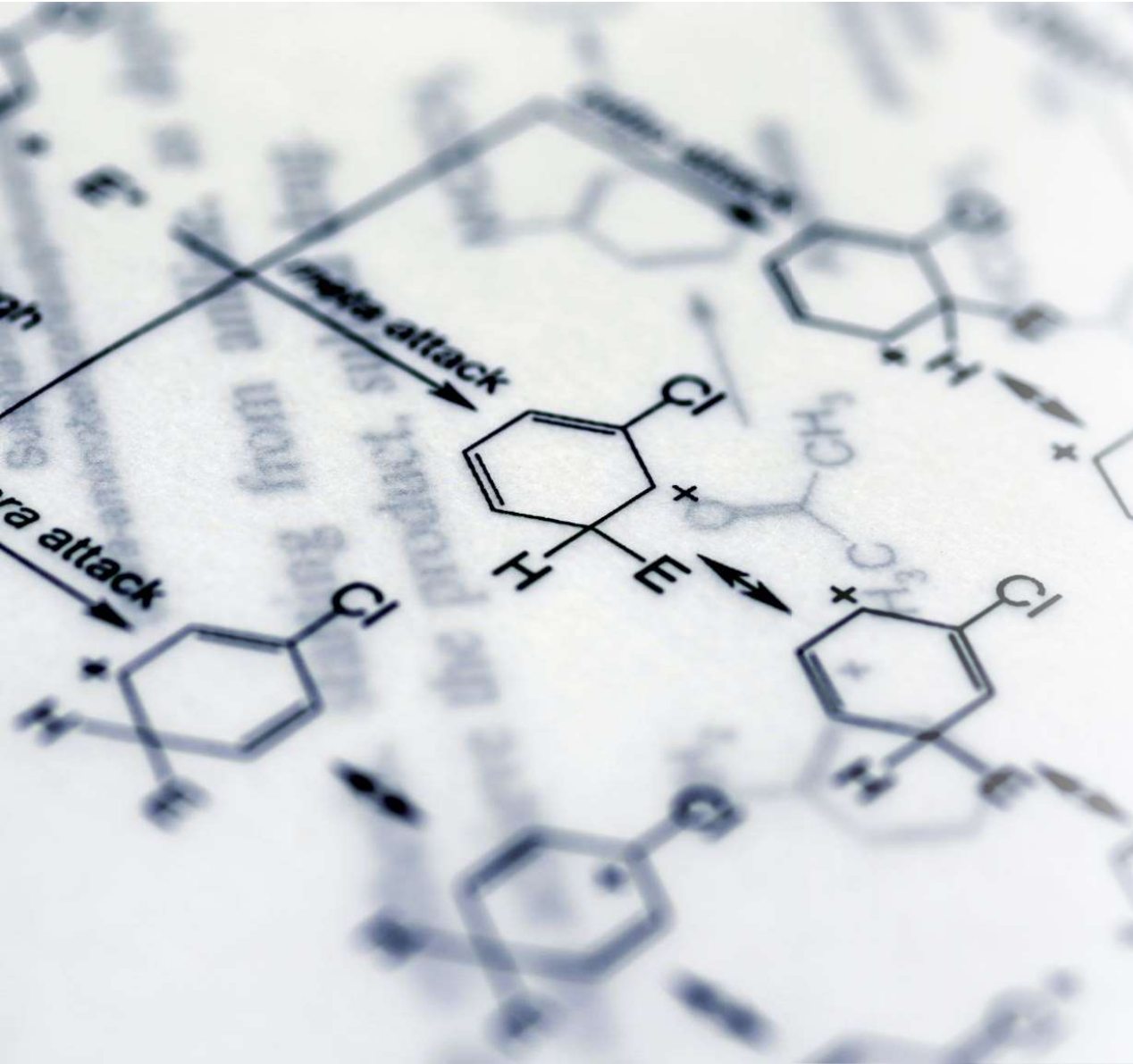
28th Feb 2025



• Introduction

- National Science Day – February 28
- ● What is National Science Day?
- Celebrated in India on February 28 each year.
- Promotes scientific awareness and innovation.
- Schools, colleges, and institutions organize seminars, exhibitions, and competitions.
- ● Why is it Celebrated?
- Commemorates the discovery of the Raman Effect by Sir C.V. Raman on February 28, 1928.
- Raman Effect explains the scattering of light and changes in wavelength.
- Earned C.V. Raman the Nobel Prize in Physics in 1930.





- **Science & Geography – An Interconnection**

- **How Geography is a Part of Scientific Studies**

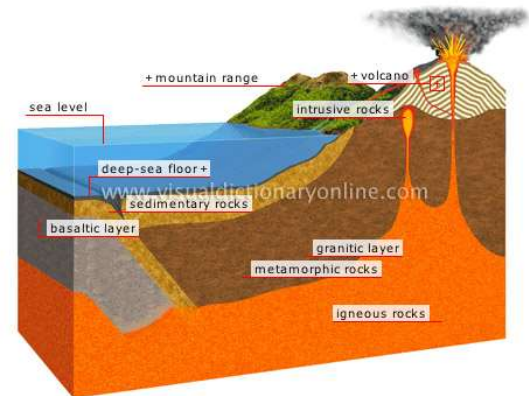
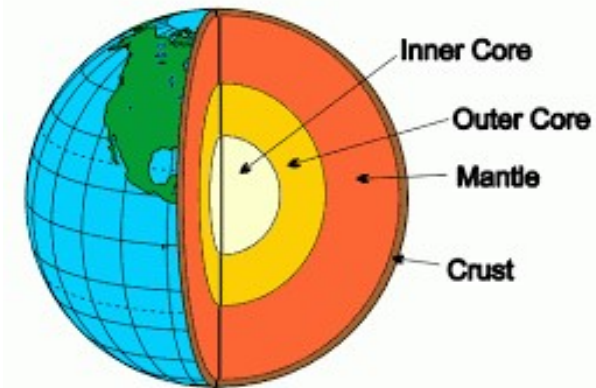
- Uses scientific methods like observation, data analysis, and experimentation.
- Integrates fields like climatology, hydrology, and environmental science.
- GIS & Remote Sensing help analyze spatial data.
- Aids in predicting earthquakes, cyclones, and other natural disasters.

- **Earth Sciences as a Crucial Branch of Science**

- Studies the Earth's structure, processes, and resources.
- Includes geology, meteorology, oceanography, and environmental science.
- Helps understand climate change, natural hazards, and sustainability.

• The Role of Science in Understanding Geography

- **Earth's Structure and Composition**
- **Four main layers of Earth:**
 - Crust** – Outer rocky layer
 - Mantle** – Semi-solid, drives plate movements
 - Outer Core** – Liquid iron & nickel
 - Inner Core** – Solid metal sphere
- **Plate tectonics, earthquakes, and volcanoes** are studied through geology.
- **The Scientific Study of Landscapes, Climate & Natural Phenomena**
- **Geology** – Studies landforms, erosion, and mountains.
- **Meteorology** – Analyses climate patterns & weather forecasting.
- **Oceanography** – Explores oceans, currents, and marine ecosystems.
- **Seismology** – Helps detect earthquakes and tsunamis.



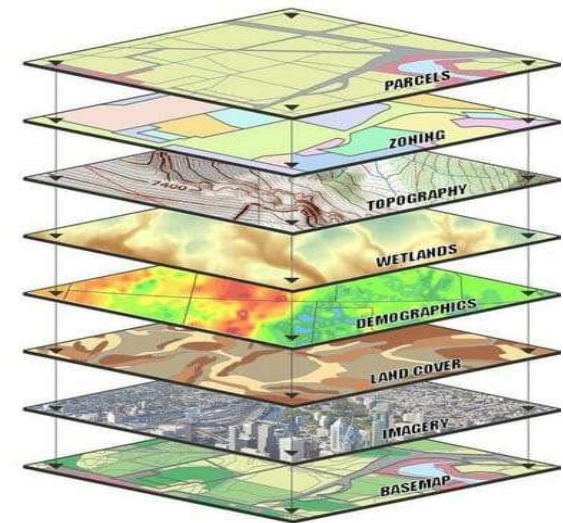
• **Geographic Discoveries Through Science**

➤ **Satellite Technology and Mapping**

- Provides high-resolution images for studying Earth's surface.
- Used in weather forecasting, climate change monitoring, and resource mapping.
- Helps track deforestation, urbanization, and natural disasters.

➤ **GPS and Remote Sensing**

- GPS (Global Positioning System) enables precise navigation, location tracking, and mapping.
- Remote sensing collects data via satellites and aircraft to analyse landscapes, water bodies, and environmental changes.
- Used in disaster management, agriculture, and urban planning.





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- **Science Behind Natural Disasters**
- **Earthquakes, Tsunamis, and Cyclones**
- **Earthquakes** – Caused by tectonic plate movements; measured using seismographs.
- **Tsunamis** – Triggered by underwater earthquakes or **volcanic eruptions**; detected using buoy systems and ocean sensors.
- **Cyclones** – Formed due to low-pressure systems over warm oceans; tracked using satellites and radar.
- **How Science Helps Predict and Prevent Disasters**
- **Seismology** detects earthquake-prone zones for early warnings.
- **Weather satellites** help predict cyclones and storms.
- **Tsunami warning** systems use underwater pressure sensors.
- **Engineering innovations** aid in disaster-resistant infrastructure.

• **Climate Change & Global Warming**

➤ **The Science Behind Climate Change**

- **Greenhouse Effect** – Gases (CO_2 , CH_4 , N_2O) trap heat, causing warming.
- **Rising Temperatures** – Fossil fuel burning increases global heat levels.
- **Extreme Weather** – More heatwaves, storms, and shifting rainfall patterns.
- **Melting Ice Caps & Rising Sea Levels** – Leads to flooding & habitat loss.

➤ **Geography's Role in Studying Environmental Shifts**

- **Climate Patterns** – Analyzes weather data and historical trends.
- **Land Use & Deforestation** – Studies how human activities impact ecosystems.
- **Satellite & GIS Technology** – Tracks glacier melting, deforestation, and temperature rise.
- **Disaster Management** – Helps predict & mitigate climate-related disasters.

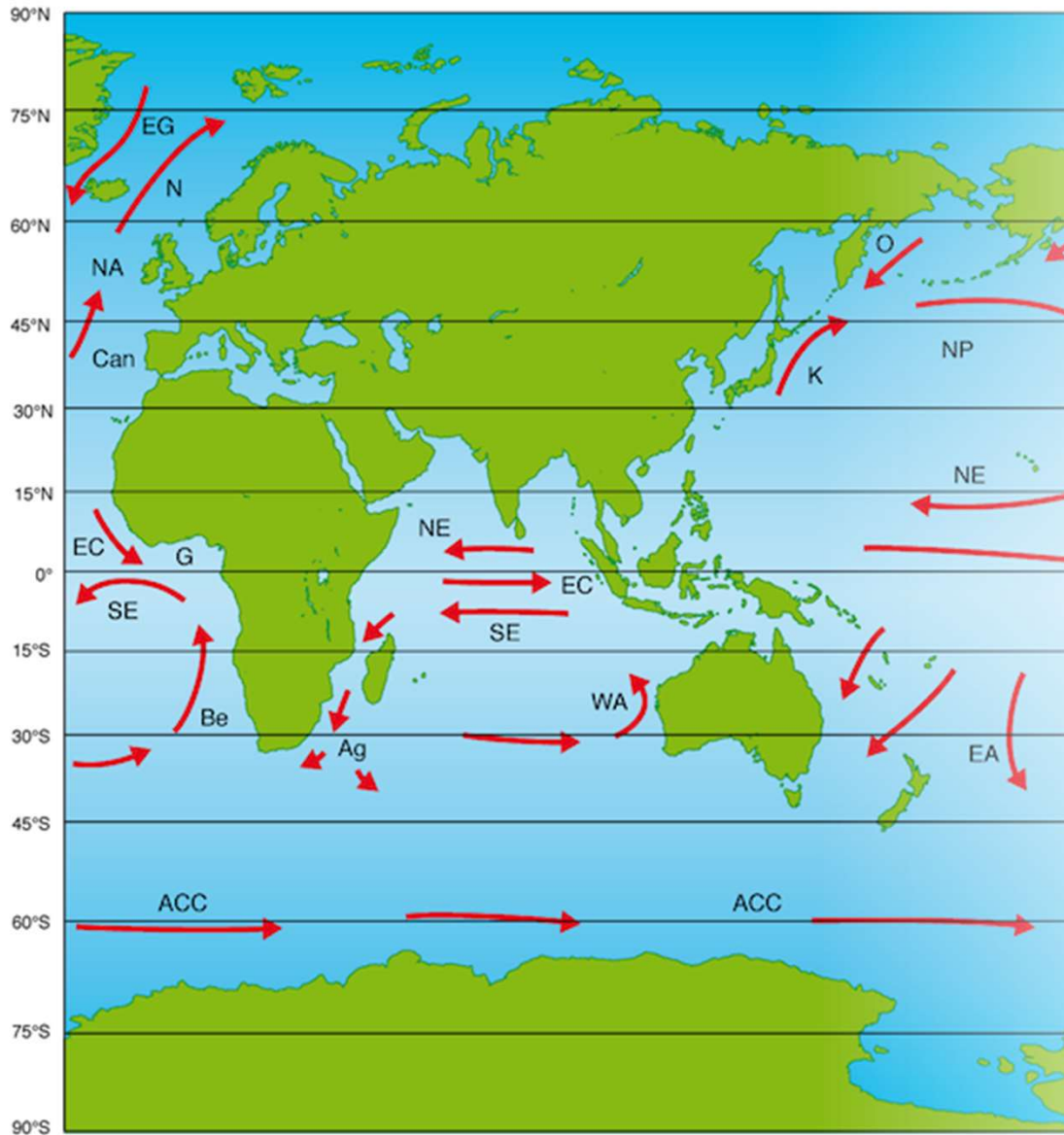


Space Technology & Geography

➤ How Satellites Help in Understanding Geography

- **Remote Sensing** – Captures high-resolution images for mapping.
 - **Weather Forecasting** – Monitors climate patterns, storms, and disasters.
 - **GPS & Navigation** – Provides accurate location tracking and mapping.
 - **Environmental Monitoring** – Tracks deforestation, urbanization, and water resources.
- ### ➤ Space Exploration and Earth Studies
- **Earth Observation Satellites** – Study climate change, ocean currents, and atmosphere.
 - **Planetary Exploration** – Helps compare Earth's geography with other planets.
 - **International Space Missions** – Contribute to global environmental research.
 - **GIS & Satellite Imaging** – Aid in urban planning, agriculture, and disaster management.



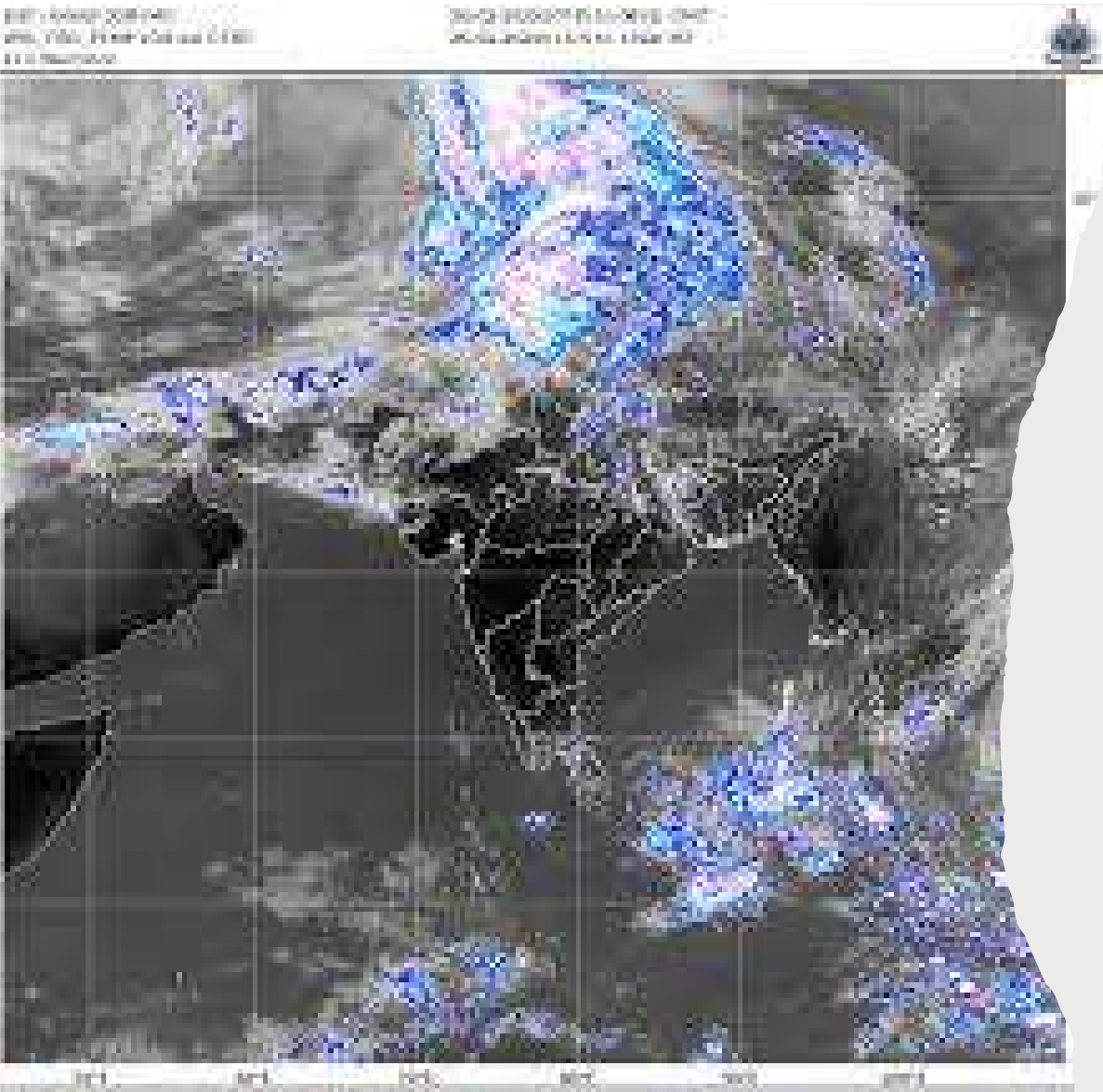


- **The Role of Science in Oceanography**
 - **Studying Oceans, Marine Life, and Underwater Geography**

- **Marine Biology** – Explores ocean life, ecosystems, and biodiversity.
- **Seafloor Mapping** – Uses sonar & satellites to study underwater terrain.
- **Deep-Sea Exploration** – Submersibles & robotics help research ocean depths.
- **Water Chemistry** – Examines salinity, temperature, and oxygen levels.

- **Importance of Ocean Currents and Climate**

- **Regulating Global Climate** – Distribute heat worldwide.
- **Weather Patterns** – Affect monsoons, storms, and rainfall.
- **Marine Ecosystem Balance** – Impact fish migration & coral reefs.
- **CO₂ Absorption** – Oceans absorb carbon dioxide, influencing climate change.



Science in Weather & Meteorology

➤ Understanding Weather Patterns

- 1) Influenced by **temperature, humidity, air pressure, and wind**
 - 2) Jet streams & ocean currents impact weather changes
 - 3) Helps predict storms, heatwaves, and cold fronts

➤ Role of Satellites & Radar Technology

- 1) **Satellites:** Track cloud cover, temperature, and storm formations
- 2) **Radar:** Detects precipitation, storm intensity, and wind movement
- 3) Improves **weather forecasting & disaster preparedness**

Scientific Tools for Geographical Studies

➤ Traditional Tools

- 🌍 **Maps:** Show geography, climate, and terrain features

- 🧭 **Compasses:** Help with navigation and direction

- 🔭 **Telescopes:** Study celestial bodies affecting Earth

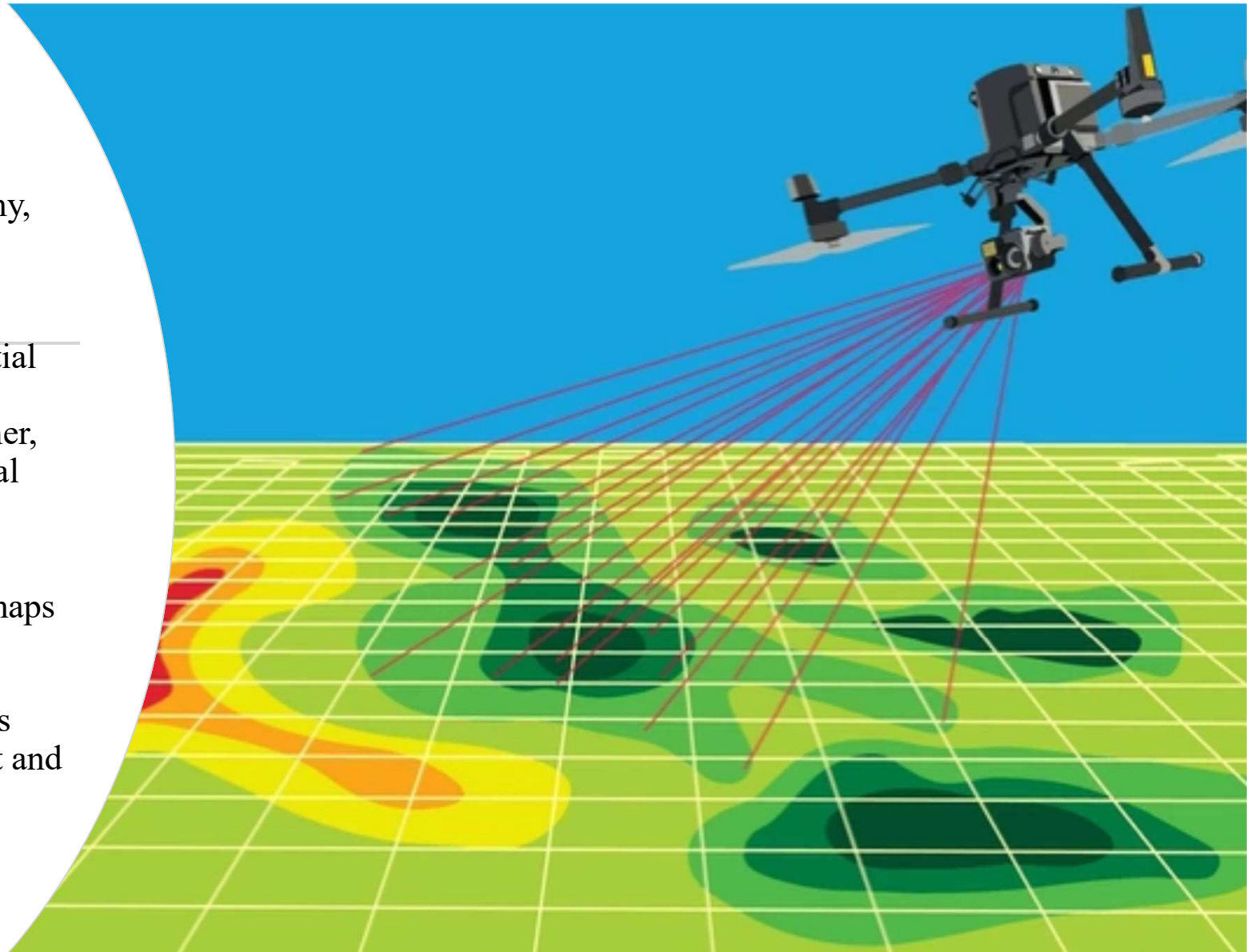
- 🛰️ **Satellites:** Monitor weather, landforms, and environmental changes

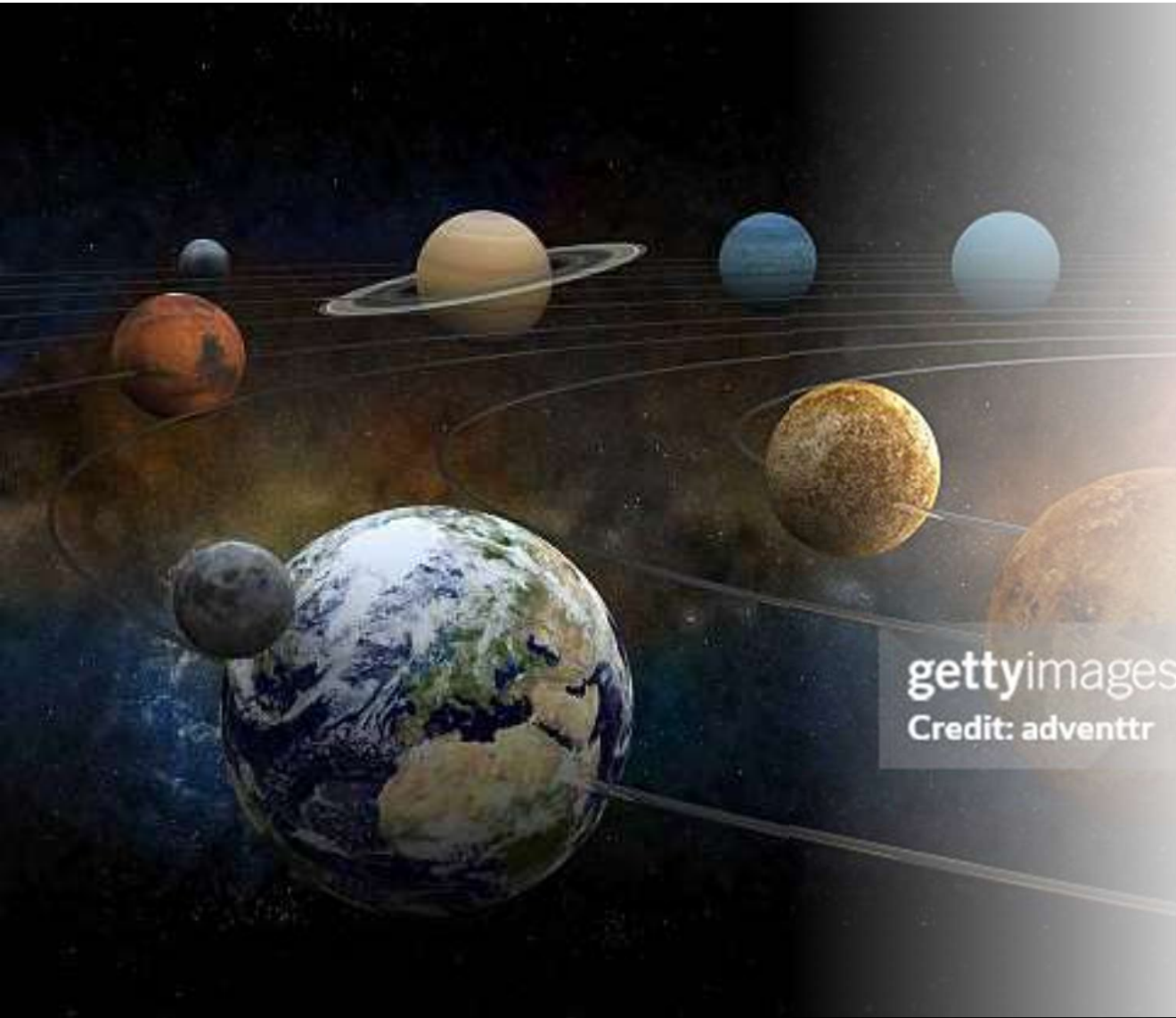
➤ Modern Technologies

- 📡 **LiDAR:** Creates 3D maps using laser pulses

- 🚁 **Drones:** Capture aerial imagery & survey landscapes

- 🌐 **Seismic Sensors:** Detect and measure earthquakes





Geographic Contributions to Space Science

➤ Earth's Positioning in the Solar System

- **Rotation & Tilt:** Influence climate and seasons
- **Magnetic Field:** Aids in space navigation & satellite tech
- **Latitude & Longitude:** Help with space-based observations

➤ Geographical Features on Other Planets

- **Mars:** Valleys, Olympus Mons, and ancient riverbeds
- **Moon:** Craters, mountains, and lava plains
- **Remote Sensing:** Mapping planetary surfaces with satellites & rovers
- **Geography helps explore space and understand Earth's place in the universe.**

gettyimages
Credit: adventtr



- **Science & Human Geography**

- **Studying Population Distribution**

- Influenced by **climate, resources, and economy**

- Helps in **urban planning & disaster preparedness**

- Uses **GIS & data analysis** to track migration & growth

- **How Geography Affects Human Life & Culture**

- **Climate:** Shapes food, clothing, and housing

- **Landforms & Water Bodies:** Influence transportation & settlement

- **Cultural Diversity:** Affects language, traditions, and lifestyle



- **Future of Science & Geography**

- **Upcoming Technologies in Earth Sciences**

- **LiDAR & Remote Sensing:** High-precision landform & ecosystem mapping
- **Climate Modeling:** Advanced simulations for predicting climate change
- **Geoengineering:** Innovations like carbon capture to combat global warming

- **AI & Machine Learning in Geography**

- **Predictive Analytics:** AI forecasts natural disasters & urban growth
- **Satellite Data Processing:** Machine learning analyzes real-time Earth data
- **Smart GIS Systems:** AI-driven mapping for land & resource management
- **Technology is transforming how we study and protect our planet.**

Thanks

"Let's explore the world through the lens of science!"

