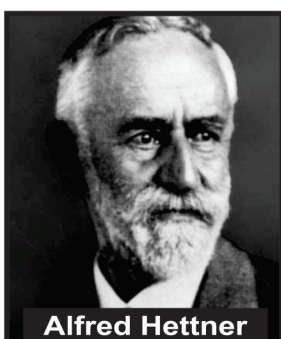
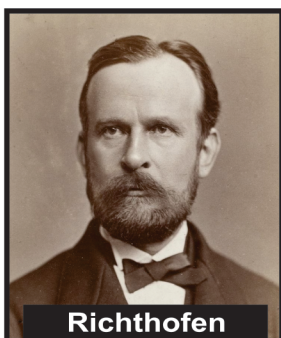
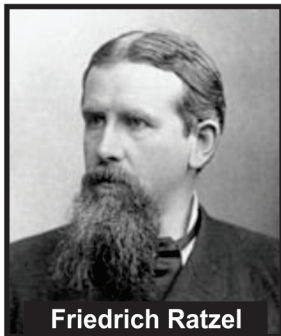
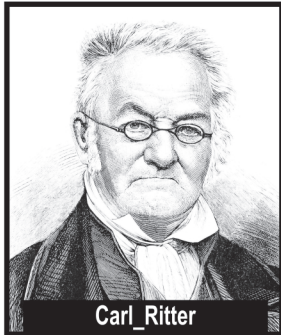
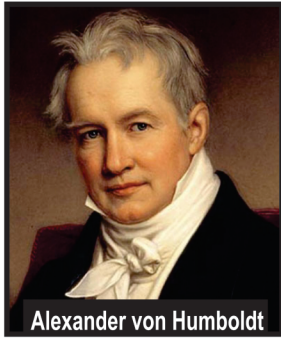
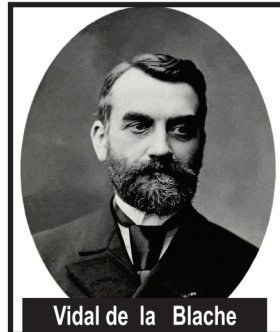
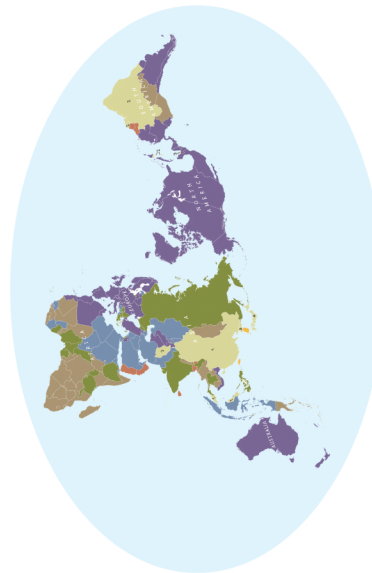
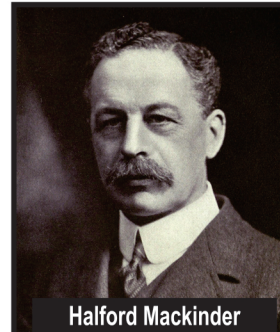
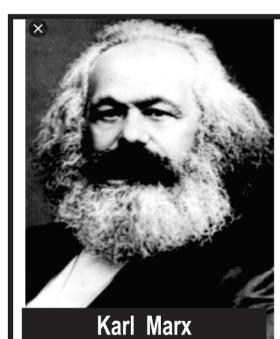
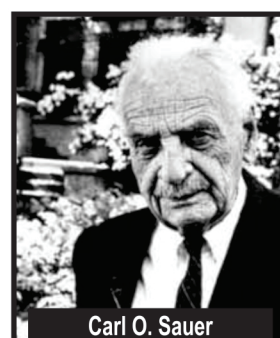
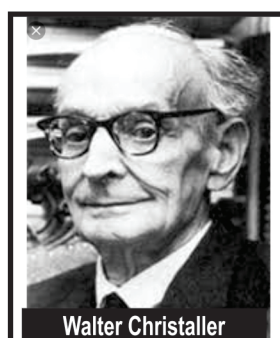
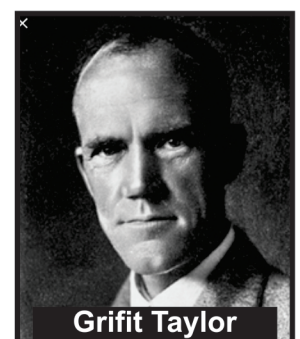
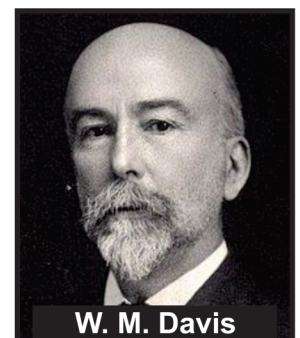
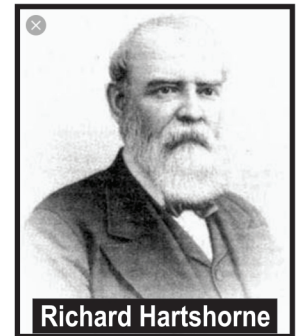
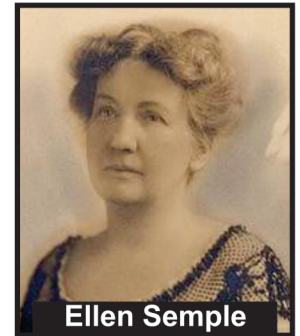


GERMAN**Development of Geographical Thought**★ **Geographers** ★**FRENCH****BRITISH****AMERICAN**

Maharashtra : Flood & Drought, Fluvial (Landforms)



अभूतपूर्व महापूर : कोल्हापूर 2019

Floods 2019 Kolhapur, Maharashtra

मराठवाडा : अवर्षण - पाण्याचे दुर्भिक्ष

Drought struck Marathwada region of Maharashtra, there are villages that are tackling the extreme weather over the years,



Pot Holes

कुंभगर्ता / रंजणखळगे

Nighoj, Kukadi River,
Ahamednagar,
Maharashtra.

Landforms : Glaciers, Desert & Sea Waves



Valley glaciers get most of sediment loads from mass wasting and intense weathering of adjacent slopes. Rock debris of lateral and medial moraines stays high up.

हिमोढ

Alpine Glaciers,
Tongas National Forest,
Moraines, Alasaka (U.S.A.)

भूस्तंभ/ शेला व पागोटे

Trange Shaped
Rocks,
Geomorphology in
the Carpathian
Mountains, the
Babele



सागरी स्तंभ

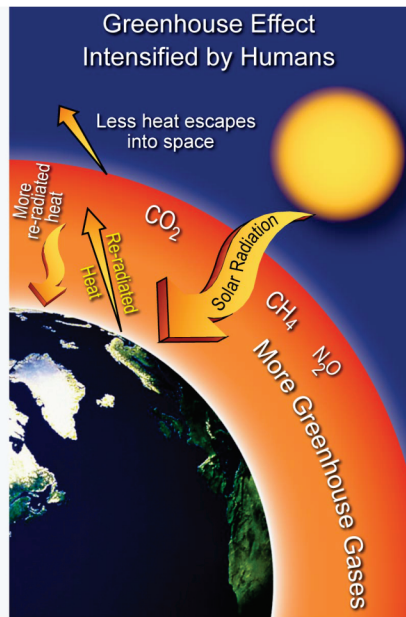
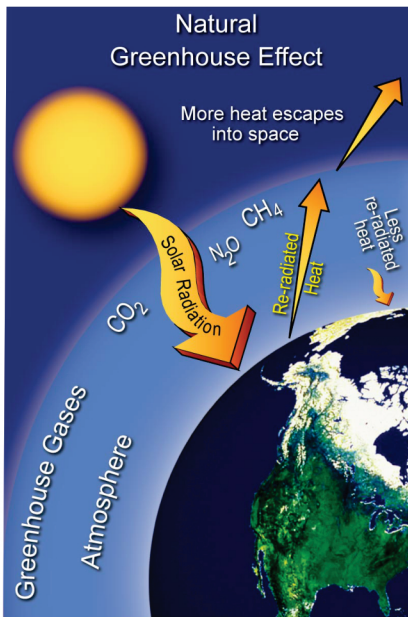
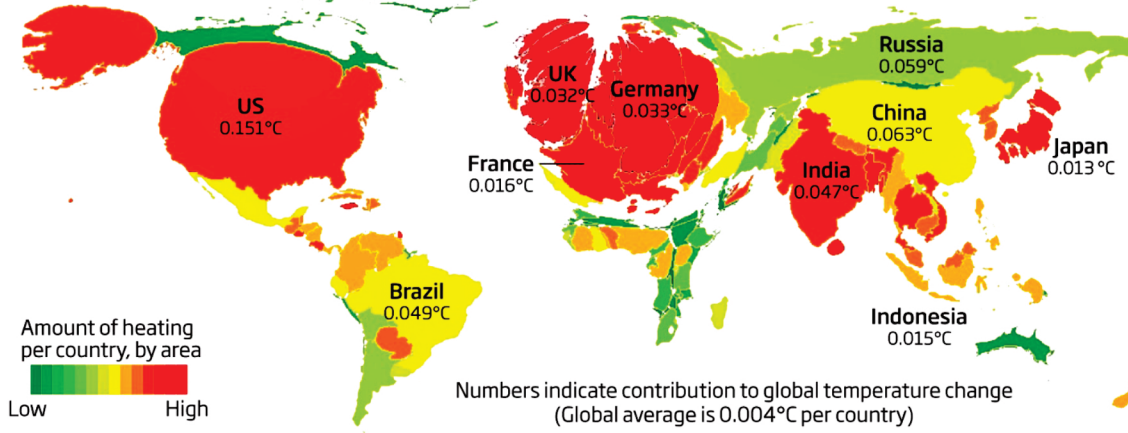
Scientists have discovered a range of ancient limestone stacks, just offshore from their iconic cousins, the Twelve Apostles on Australia's south coast

Environmental Issues

Global warming culprits, judged by size

Countries that have caused disproportionately more global warming than their area would suggest are shown swollen, while low-emitters in relation to their size are shrunk

जागतिक उबदारपणाचे गुन्हेगार

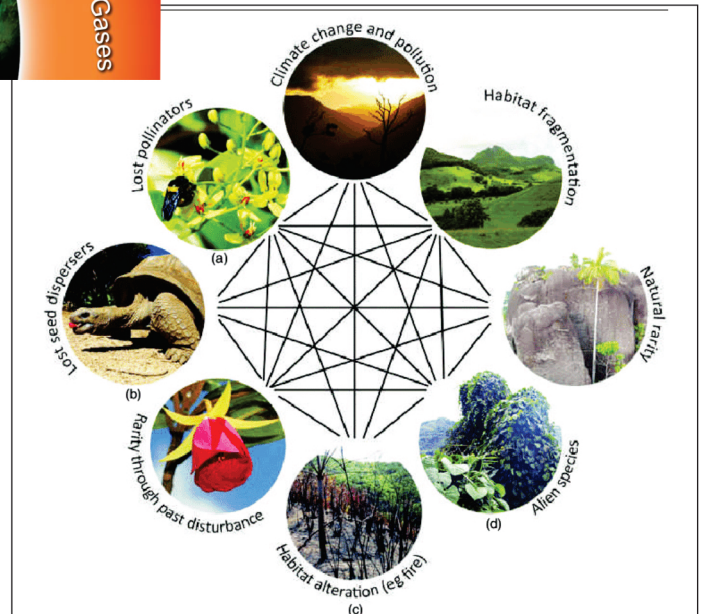


हरितनिवासावर
मानवाचा प्रभाव

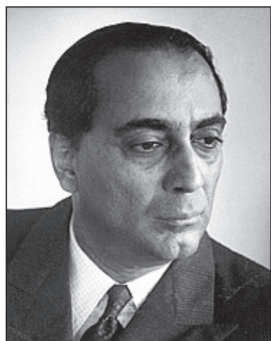
Human Influence
on the Greenhouse
Effect

जैवविविधतेला
धोका

In-Human
Dominated and
Landscapes
Affected Threat
factors to
Biodiversity are
Active



ISRO & Indian Scientist



Homi Jehangir Bhabha
(30 Oct. 1909 – 24 Jan. 1966)
was an Indian nuclear physicist & founding director.



Dr. Vikram Ambalal Sarabhai
(1963-1971)



Dr. Ramanna
The first Peaceful Nuclear Explosion (PNE) was carried out in 1974,



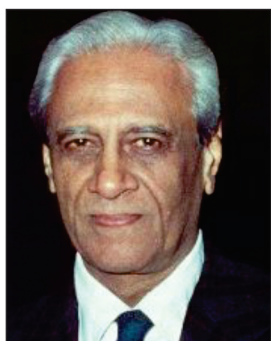
Udupi Ramachandra Rao,
Eminent Space Scientist and former ISRO Chairman, dies at 85



Krishnaswamy Kasturirangan
(born 24 October 1940)
is an Indian space scientist who headed the (ISRO) from 1994 to 2003



A.P.J. Abdul Kalam
(15 October 1931 – 27 July 2015)
was an Indian aerospace scientist & 11th President of India from 2002 to 2007



Satish Dhawan
India.
He was an Indian Engineer, Chairperson & Researcher.



Dr. G. Madhavan Nair
started his career in the Thumba Equatorial Rocket Launching Station (TERLS) in 1967.

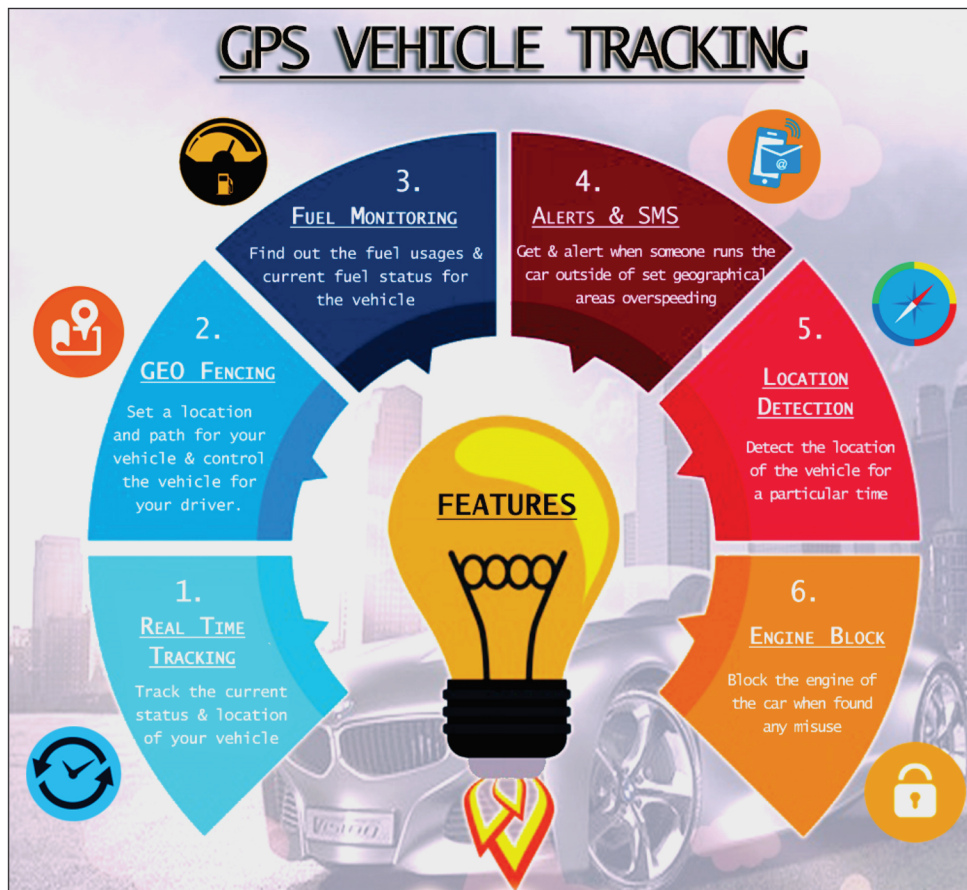


Rakesh Sharma
name was etched in history, when he cruised into space aboard the Soyuz T-11 on April 2, 1984.
He was the first Indian citizen to go into space and the whole nation was rallying behind him.

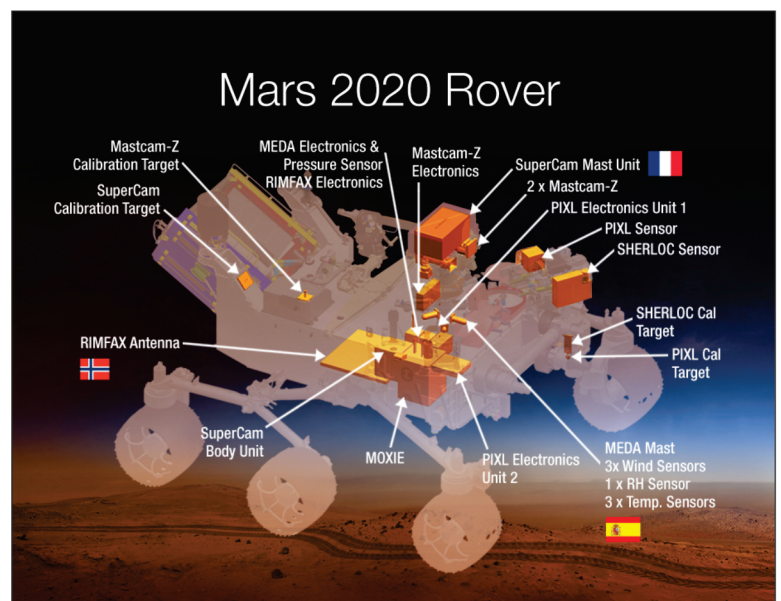


K. Sivan
Chandrayaan-2 mission launch SRO chairman
The rocket and spacecraft's s
The GSLV-M

Global Positioning System (GPS) & Remotsensing



Remote sensing application used for agricultural studies The Odisha Space Application Centre (ORSAC) will use remote sensing to review the damages caused by tropical storms and flood on the paddy fields in India.



NASA Announces Mars 2020 Rover Payload to Explore the Red Planet as Never Before

Geographical Information Systems (GIS) for Defence

China and India Need a Way to Get Out of the Maze in Ladakh



A cropped version of a satellite image shows a close-up of a madrasa near Balakot, Khyber Pakhtunkhwa province, Pakistan, March 4, 2019. Picture taken March 4, 2019.

Geographic Information Systems (GIS)



Raster Analysis

Protected Species

Landscapes

Environmental Database Information

Hydrology

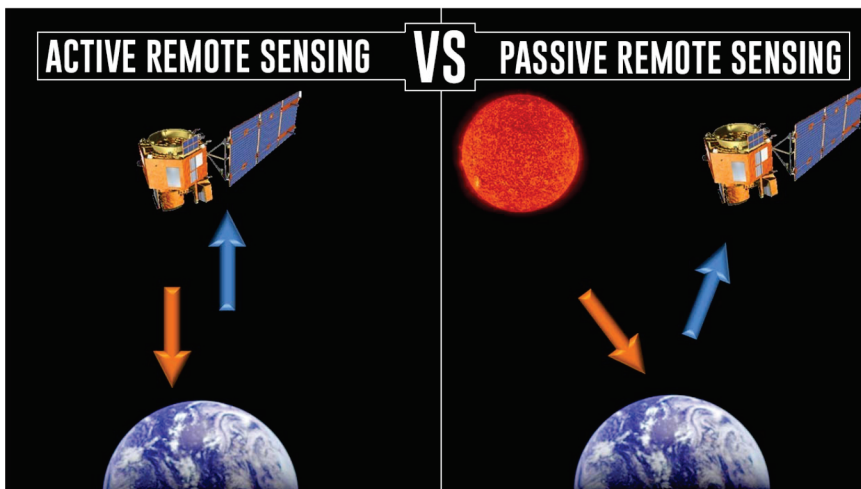
Cultural Resources

CAD & Design Integration

ACTIVE REMOTE SENSING

VS

PASSIVE REMOTE SENSING



Active sensors emit energy in order to scan objects and areas whereupon a sensor then detects and measures the radiation that is reflected or back scattered from the target.

Space Technology

HARVESTING HI-TECH

India looks to satellite-based computing, cutting-edge remote sensing and a growing rural smartphone user base to renew a fading green revolution



BHUVAN

It's a multi-purpose end-user satellite application platform powered by the Indian Space Research Organisation

How it works: Acts like a clearing house for satellite data. Essentially a humongous software that integrates and processes ground inputs with satellite data for diverse needs. All state governments use it. Offers nearly 3.6 lakh products, 10 million data points, 800 GB of transactions and 60 million user hits a month



CHAMAN (Coordinated programme on Horticulture Assessment and Management using geoinformatics)

Satellite mapping of area and output of 7 horticultural crops in 12 states

Outcomes

- Digital inventory of all horticulture zones in the country
- Will help decide cold-storage hubs
- Help manage inflation through accurate data of food stocks



FASAL (Forecasting Agricultural output using Space, Agro-meteorology and Land based observations)

Monitoring health of 8 crops using optical and microwave tech of RISAT-1 MRS & Landsat 8 satellites

Drones

- In a first, drones being used to directly study crop locations

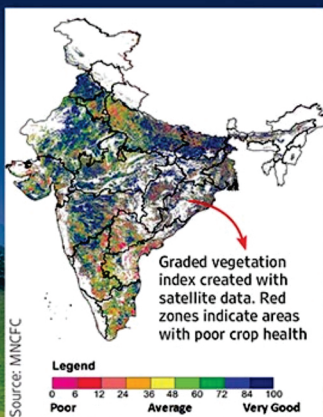


NADAMS (National Agricultural Drought Assessment and Monitoring System)

Remote sensing-based real-time information on current or developing droughts at state, district and sub-district level

Outcomes

- Currently covers 14 states at district level, which are predominantly drought-prone, such as Andhra, Bihar, Gujarat, Jharkhand, Karnataka, Madhya Pradesh
- Drought scan at sub-district level available for 5 states



APP, APP AND AWAY

Android apps are the new tools in the hands of officials, farmers

CCE Agri: Revenue officials now use this android app to estimate crop damage and yield loss at 1,100 location points in 12 states

Ground Truth: Tablet-based app to monitor crop health being used by 18 state govts

Bhuvan Hailstorm App: Currently being used to capture hailstorm losses in states such as Madhya Pradesh

mKisan: Nearly 90 million farmers now enrolled for farm advisories, such as weather and pest updates, on their phones

WHAT IS REMOTE SENSING?

