

Earth Magnetic Field

redefined source
reexamined influence

T.S. Niazi

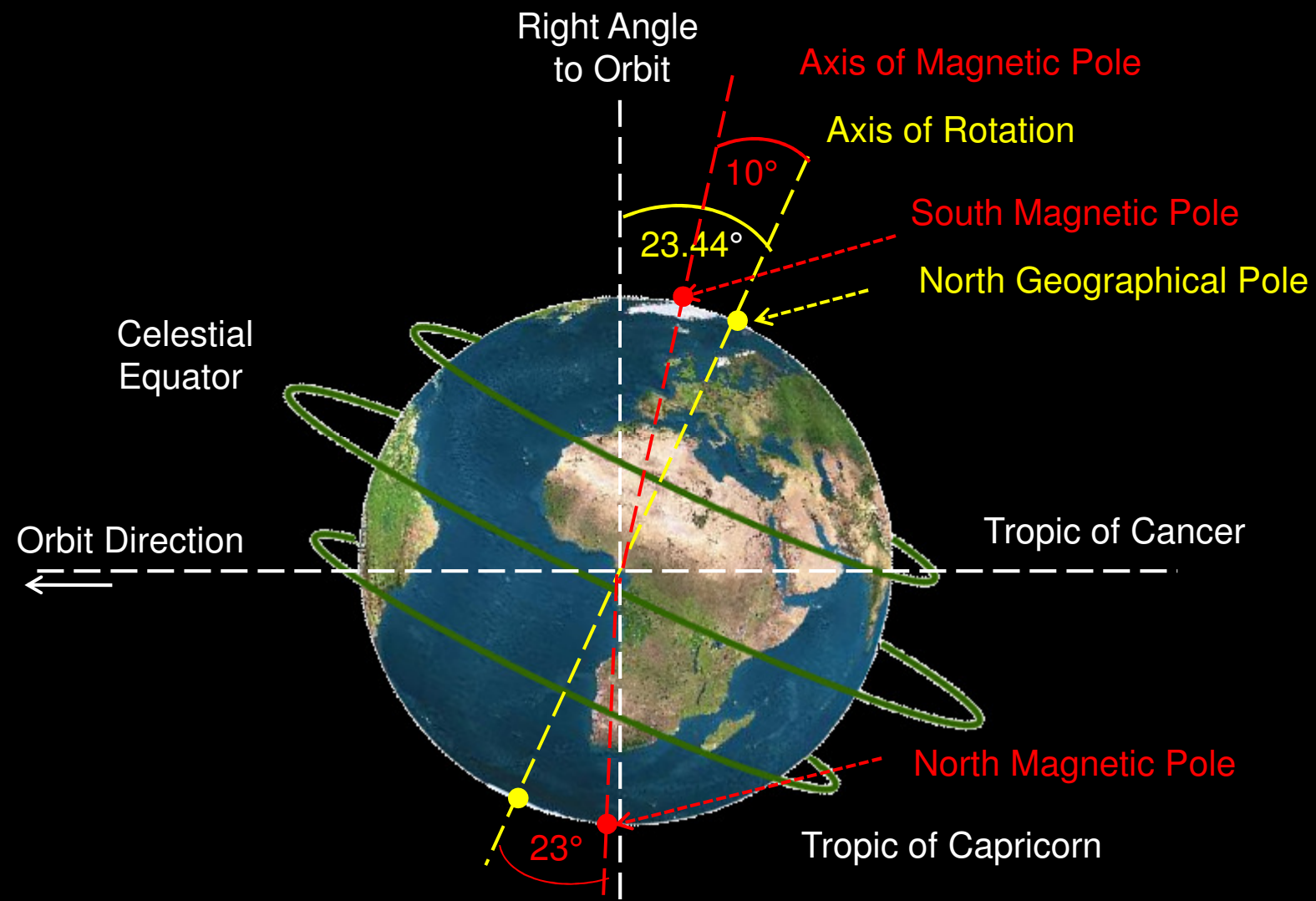
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Agenda

- Observations
- Earth Magnetic Field
- Influence on Earth Spin Speed
- Influence on Earth Temperature

The Geo Pole and the Magnetic Pole



https://www.ga.gov.au/products/servlet/controller?event=GEOCAT_DETAILS&catno=69264

Observations

- 2 Earth magnetic poles are moving eastward. The distance between the two magnetic poles has increased by 5360 km since 1900, when measured across the Atlantic. ★
- The magnetic pole in the Arctic lost 6% of its strength over a 100 years, while the one in Antarctica lost 4%.★
- The emergence of Reverse Magnetic Flux (Plasmoids) in Antarctica.
- Increased number of Earthquakes ★
- In 27 years Saturn has slowed down its 11 hours 39 minutes spin by 8 minutes.★
- In 22 years, Venus has slowed down its 243 Earth days spin by 6 minutes.★
- Venus and Uranus are spinning in a direction contrary to other planets.

The Magnetic Field Change is inconsistent

	Year 1900			Year 2014			Change	
	Latitude	Longitude	nT Intensity	Latitude	Longitude	nT Intensity	nT Intensity	%
South Magnetic Pole/ Arctic	70° 30' 0" N	96° 12' 0" W	61,120	85° 54' 0" N	149° 0' 0" W	57,177	-3,943	-6%
Toronto	43° 43' 15" N	79° 24' 45" W	62,068	43° 43' 15" N	79° 24' 45" W	54,220	-7,848	-13%
New York	40° 42' 28" N	73° 54' 19" W	60,212	40° 42' 28" N	73° 54' 19" W	52,020	-8,192	-14%
San Francisco	37° 47' 45" N	122° 22' 48" W	54,342	37° 47' 45" N	122° 22' 48" W	48,674	-5,668	-10%
Mexico City	19° 25' 37" N	99° 7' 39" W	46,648	19° 25' 37" N	99° 7' 39" W	40,681	-5,967	-13%
Rio De Janero	22° 43' 18" S	43° 27' 19" W	25,517	22° 43' 18" S	43° 27' 19" W	23,264	-2,253	-9%
Moscow	55° 45' 0" N	37° 42' 0" E	49,668	55° 45' 0" N	37° 42' 0" E	52,388	2,720	5%
London	51° 29' 16" N	0° 10' 41" W	47,379	51° 29' 16" N	0° 10' 41" W	48,678	1,299	3%
Vladivostok	43° 7' 48" N	131° 57' 38" E	52,058	43° 7' 48" N	131° 57' 38" E	52,631	573	1%
Ankara	39° 55' 44" N	32° 51' 11" E	43,741	39° 55' 44" N	32° 51' 11" E	47,445	3,704	8%
Athens	37° 56' 38" N	23° 39' 11" E	42,493	37° 56' 38" N	23° 39' 11" E	45,846	3,353	8%
Tokyo	35° 40' 59" N	139° 48' 32" E	45,695	35° 40' 59" N	139° 48' 32" E	46,394	699	2%
Cairo	30° 4' 40" N	31° 15' 3" E	39,789	30° 4' 40" N	31° 15' 3" E	43,446	3,657	9%
Dubai	25° 16' 16" N	55° 19' 44" E	40,345	25° 16' 16" N	55° 19' 44" E	43,947	3,602	9%
Colombo	6° 55' 37" N	79° 50' 53" E	38,010	6° 55' 37" N	79° 50' 53" E	40,522	2,512	7%
Kuala Lumpur	3° 9' 0" N	101° 42' 29" E	39,547	3° 9' 0" N	101° 42' 29" E	41,822	2,275	6%
Perth	31° 57' 22" S	115° 51' 11" E	57,133	31° 57' 22" S	115° 51' 11" E	58,269	1,136	2%
Sydney	33° 53' 23" S	151° 1' 42" E	57,923	33° 53' 23" S	151° 1' 42" E	57,092	-831	-1%
Falkland	51° 42' 4" S	57° 50' 56" W	38,349	51° 42' 4" S	57° 50' 56" W	28,479	-9,870	-26%
Ushuaia	54° 47' 31" S	68° 17' 53" W	43,225	54° 47' 31" S	68° 17' 53" W	32,016	-11,209	-26%
Toamasina/ Madagascar	18° 10' 0" S	49° 23' 0" E	38,810	18° 10' 0" S	49° 23' 0" E	35,110	-3,700	-10%
Aukland	36° 54' 14" S	36° 54' 14" E	39,195	36° 54' 14" S	36° 54' 14" E	30,068	-9,127	-23%
Cape Town	33° 58' 44" S	18° 28' 55" E	35,984	33° 58' 44" S	18° 28' 55" E	25,653	-10,331	-29%
North Magnetic Pole/ Antarctic	71° 48' 0" S	148° 24' 0" E	69,175	64° 18' 0" S	136° 48' 0" E	66,749	-2,426	-4%

<http://www.ngdc.noaa.gov/geomag-web/#igrfwmm>

<http://wdc.kugi.kyoto-u.ac.jp/poles/polesexp.html%20>

The Magnetic Field Strength at Poles



Year	Antarctic				Arctic			
	Distance from Geo Pole (km)	Measured Mag Field	Estimated Plasmoid	Estimated True Field	Distance from Geo Pole (km)	Measured Mag Field	Estimated Plasmoid	Estimated True Field
1900	2,025	69,175	2,403	71,578	2,168	61,120	2,819	58,301
2014	2,861	66,749	4,838	71,587	458	57,177	-	57,177

<http://www.ngdc.noaa.gov/geomag-web/#igrfwmm>

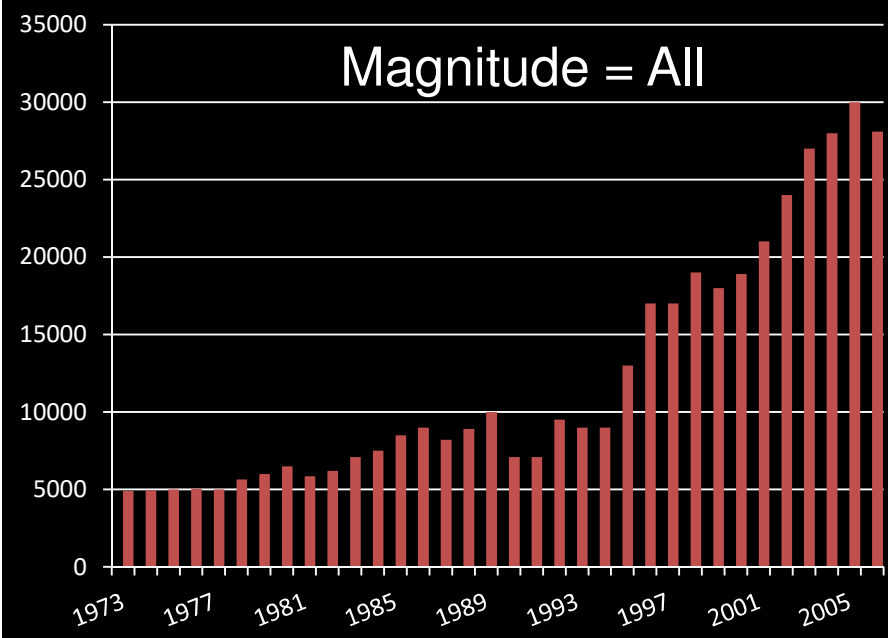
<http://wdc.kugi.kyoto-u.ac.jp/poles/polesexp.html%20>

Earthquakes

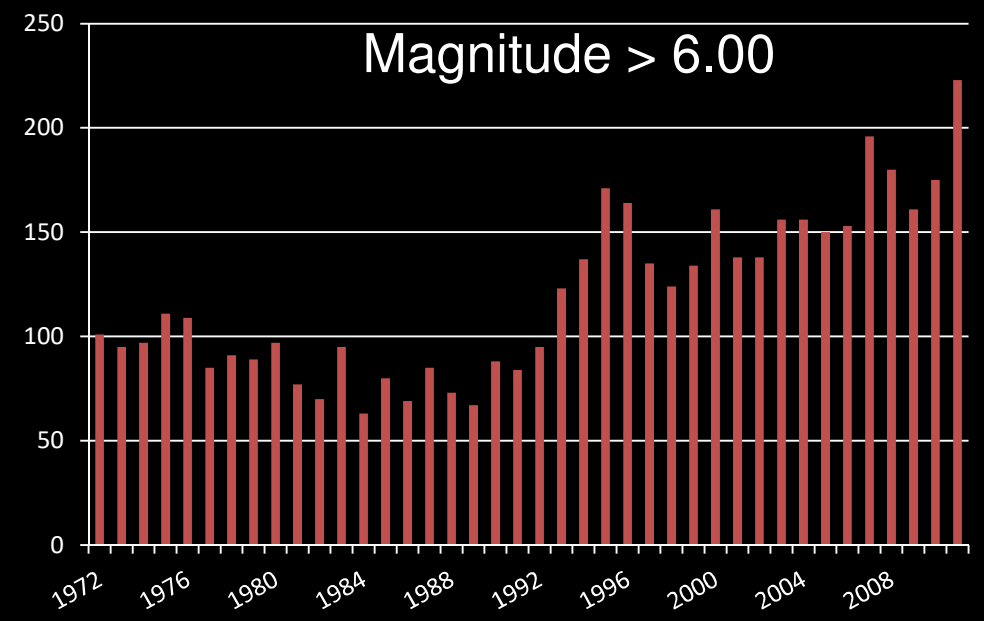
<u>DATES</u> <u>FROM & TO</u>	<u>PERIOD</u>	<u># EARTHQUAKES</u> <u>(Magnitude > 6.99)</u>
1863 to 1900	38 yrs	12
1901 to 1938	38 yrs	53
1939 to 1976	38 yrs	71
1977 to 2014	38 yrs	213

X 18

<https://earthquake.usgs.gov/earthquakes/search/>



<http://research.dlindquist.com/>



<http://quake.geo.berkeley.edu/cnss/>

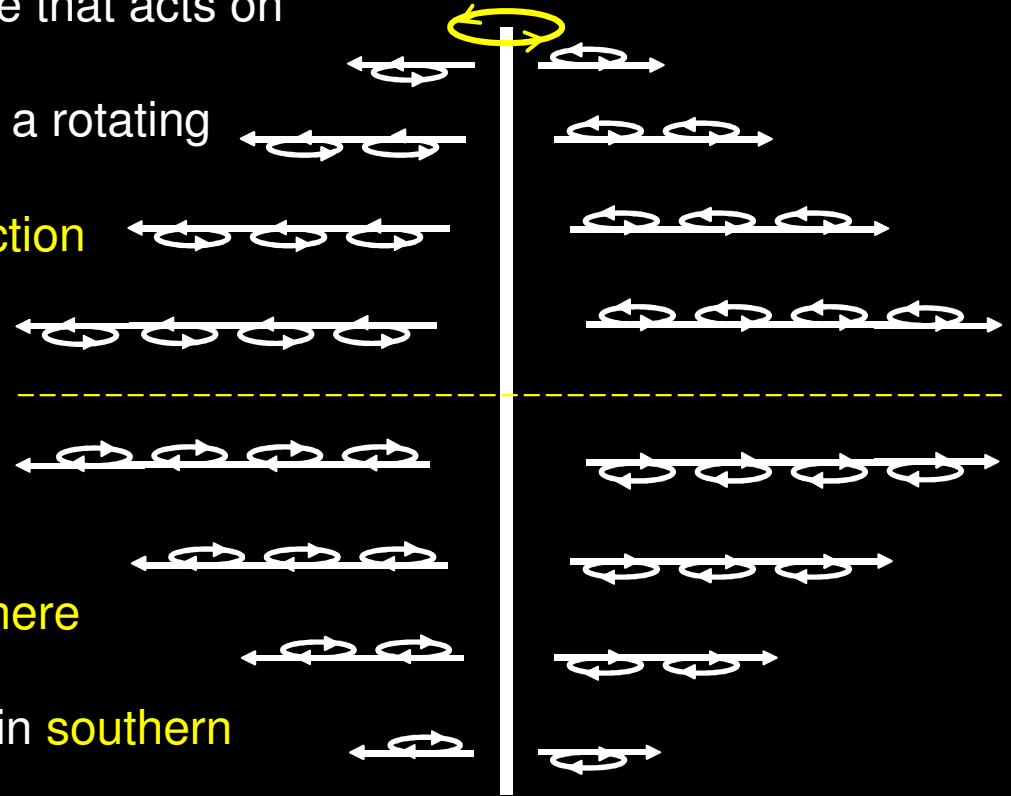
Where is Earth Magnetic Field coming from



The Coriolis Effect

1. The Coriolis Force is an inertial force that acts on objects that are in motion relative to a rotating frame of reference. It acts in a direction perpendicular to the rotation axis.

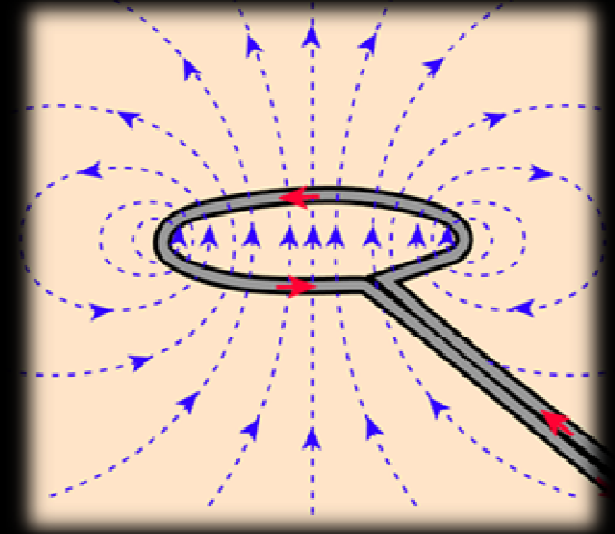
2. Objects moving in a rotating fluid veer to the right in northern hemisphere (anti-clockwise) and veer to the left in southern hemisphere (clockwise).



http://www.cleonis.nl/physics/phys256/inertial_oscillations.php

Electromagnetic Right Hand Rule

1. The right hand rule deals with the magnetic field that is induced by Current moving through a wire. Take your right hand, and wrap your fingers around the wire, with your thumb pointing in the direction that the current is flowing. Your fingers now represent the direction of the lines of magnetic force.
2. Since Electrons direction is opposite to its Current, then the rule should be inversely applied to find the direction of the induced magnetic field, when attributed to electrons flow direction.

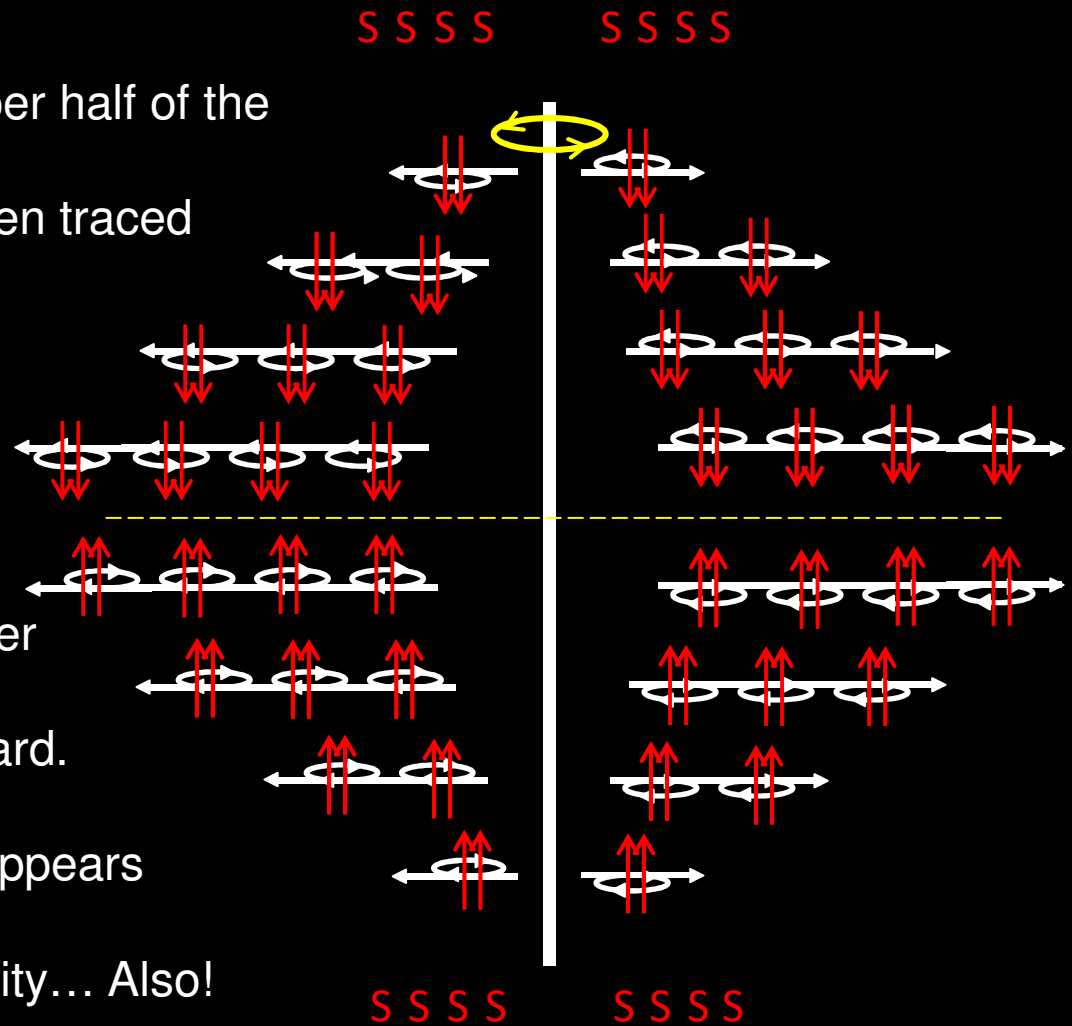




Combining the Two Rules in the Outer Core

1. Induced Magnetic Field in the upper half of the Outer Core points downward. When traced unto the Surface it appears as a magnetic field of South Polarity.

2. Induced Magnetic Field in the lower half of the Outer Core points upward. When traced unto the Surface it appears as a magnetic field of South Polarity... Also!



http://www.cleonis.nl/physics/phys256/inertial_oscillations.php

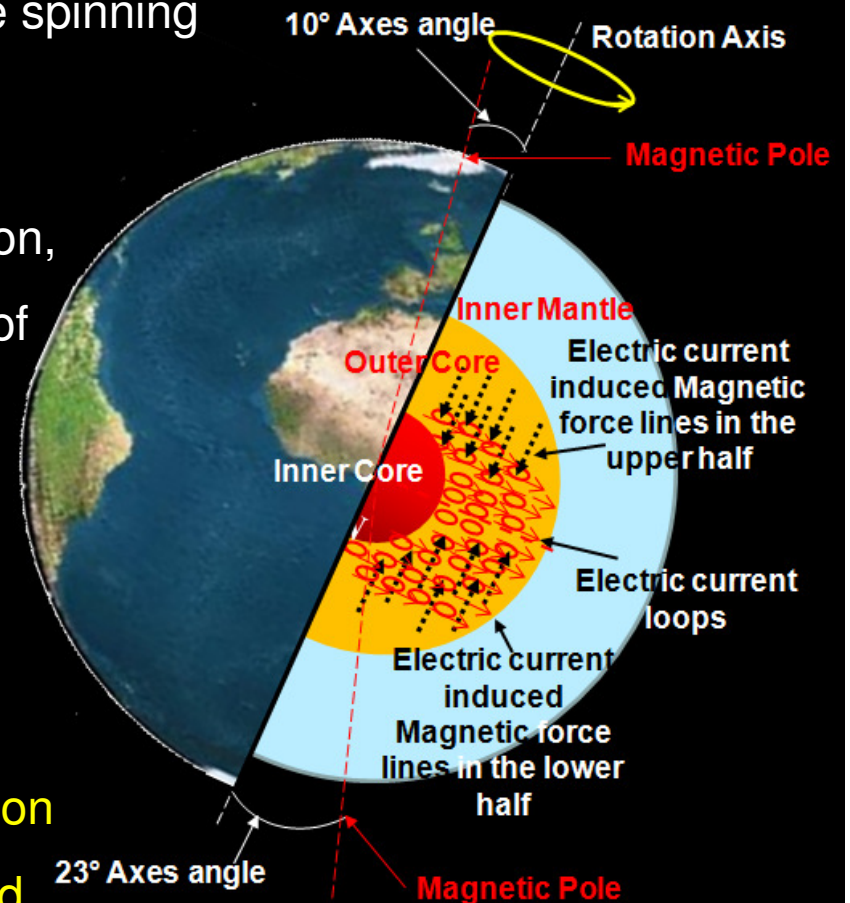


Profile of Earth Induced Magnetic Field

1. It would last as long as long as the Radioactive Inner Core keeps ejecting electrons that flow in the spinning Outer Core.

2. It would emerge parallel to the Axis of Rotation, since it is induced on right angle to the path of the electrons, which flows at right angle to the Axis of Rotation.

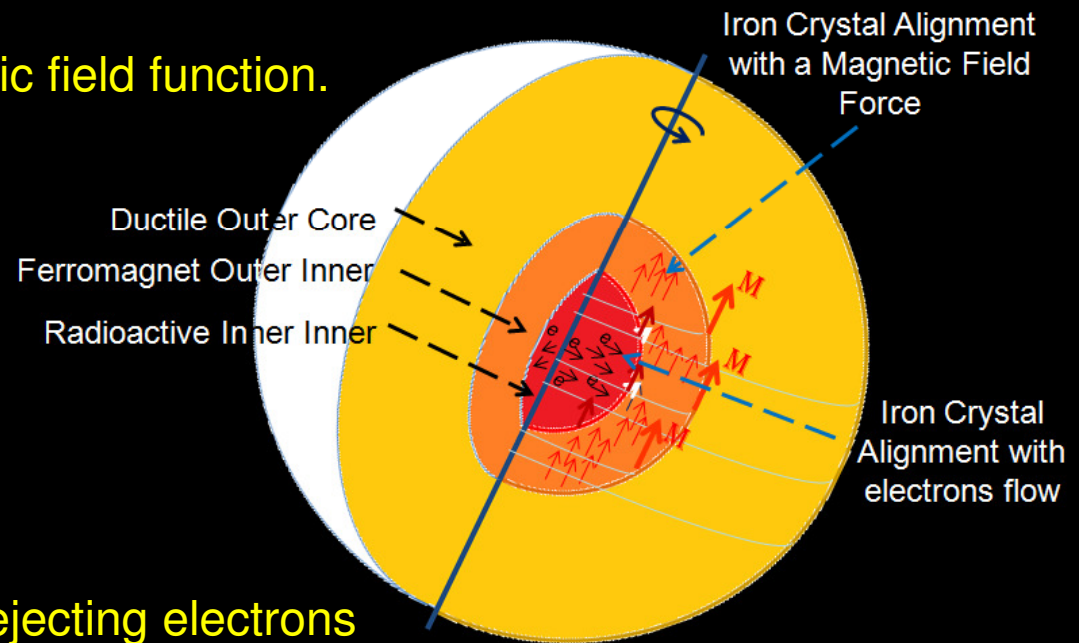
3. It would appear in the northern and southern hemispheres as magnetic field of South Polarity at the orthographic projection of the Outer Core. The centre of which should be co-centric to geo poles.



The Inner Core has an Inner Core of its own

- The solid iron crystals in the **outer- Inner Core** are aligned in north-south direction; Ferromagnets do have their crystals aligned along with its **magnetic field function**.
- The solid iron crystals in the **inner-Inner Core** are roughly aligned east-west, which tells that it carries no ferromagnetic function.

It is the radioactive body that **keep ejecting electrons** out in all directions but follow east-west by Coriolis Effect .

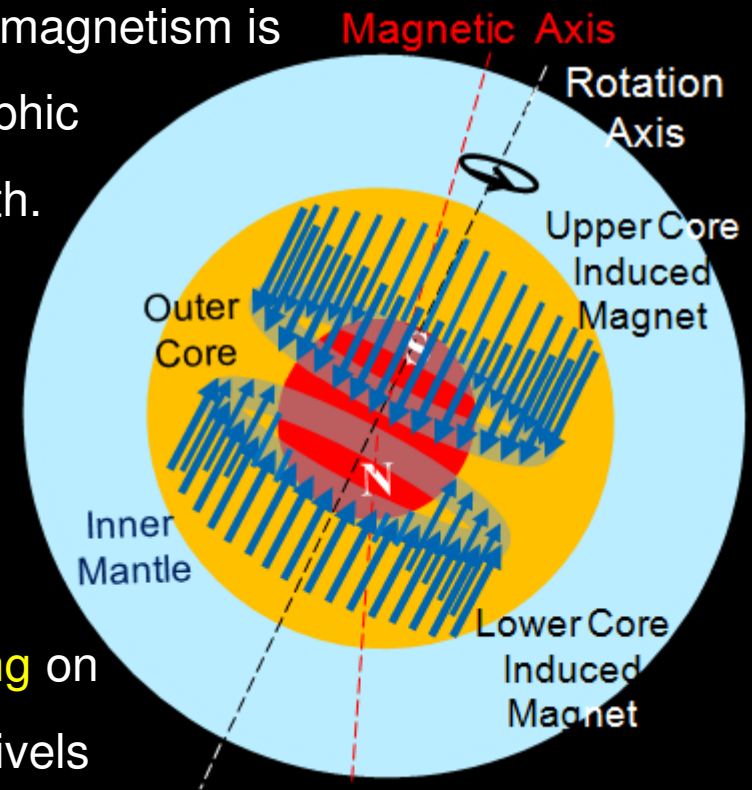


<https://news.illinois.edu/view/6367/204421>

The Earth has a 3-Magnet Configuration

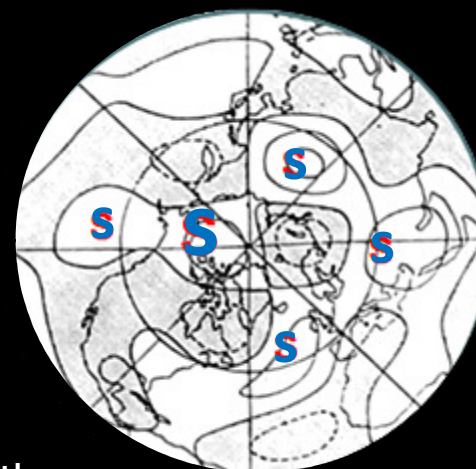
- **2 induced magnetic fields out of the Outer Core** that are witnessed around Earth Rotation Axis. The resultant surface magnetism is a ring shape around the geo poles at the orthographic projection of the Outer Core on the surface of Earth. Its strength is proportionate to Earth spin speed and radioactive life time of the Inner Core.

- **1 permanent magnet (the Inner Core)** that is free to move inside the Outer Core. Its field is **stronger than the induced field** and its poles keep **wandering** on the surface of the Earth as the Inner Core tilts, swivels and flips due to attraction forces of magnetic cores of celestial objects such as planets and stars.

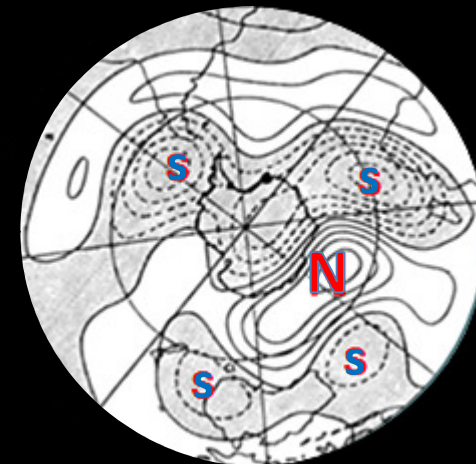


Reverse Magnetic Flux in Antarctica

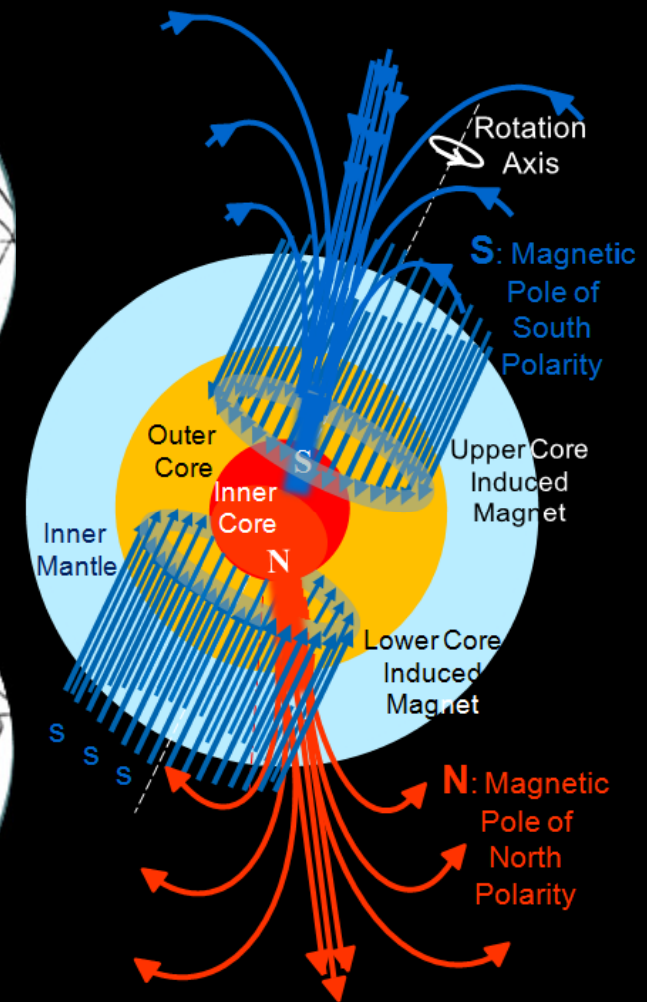
- There are regions of **Reverse Magnetic Flux (RMF)** where Magnetic Field Force points in a direction opposite to that expected from a dipole magnetic field, in ocean areas below Antarctica, South America and South Africa.
- **Such RMF aka Plasmoids** first appeared some **8,000 BC** which could tell that Earth spin about its axis was much slower for any induced Magnetic Field Force to emerge.



Arctic Circle



Antarctic Circle

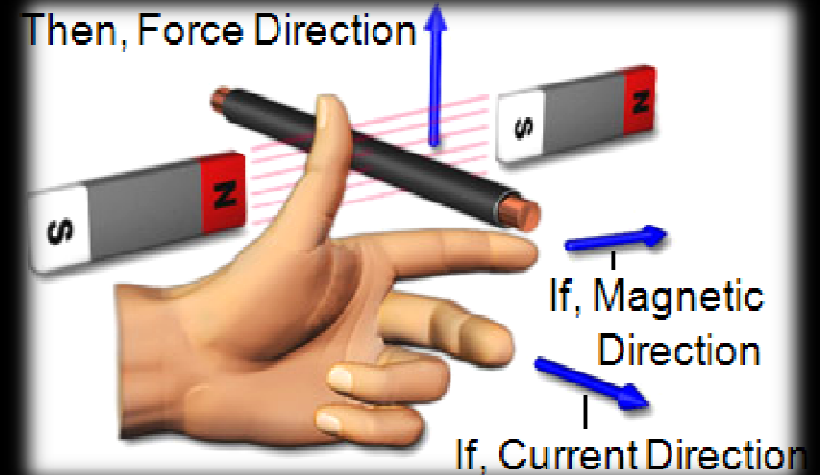


Source: GIRIJA RAJARAM, T. ARUN, WAY DHAR and A. G. PATIL, 2000
Indian Institute of Geomagnetism, Colaba, Mumbai 400 005, India

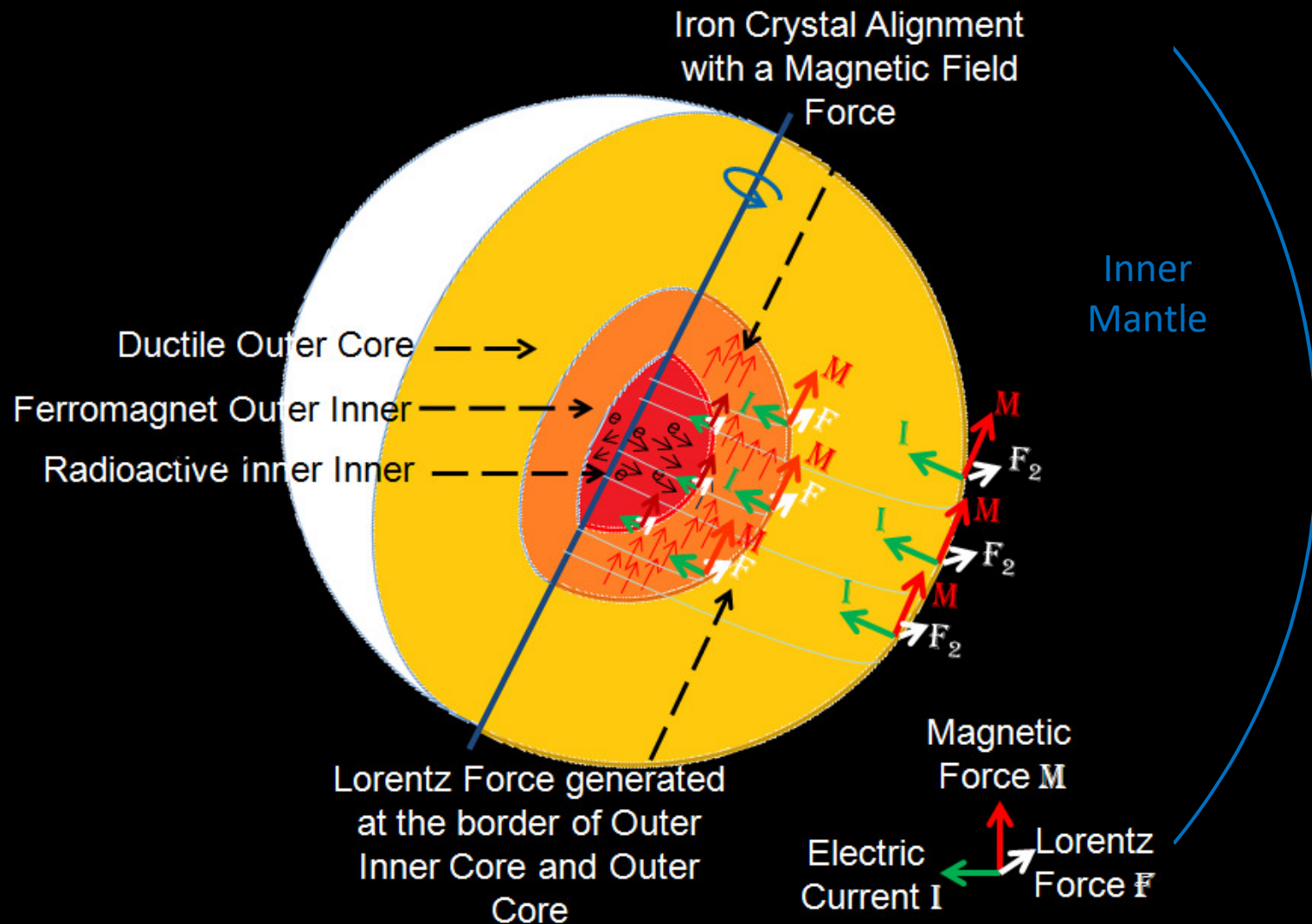
Magnet makes the Planet go round

The Lorentz Force by James Maxwell in 1865

- When a wire that carries electric current is exposed to a magnetic field, a Motion Force is generated on the wire that is proportionate to:
 - The Strength of the Electric Current.
 - The Strength of the Magnetic Field Force
 - The Angle that exists between the Magnetic Current and the Magnetic Field Force.
- The Motion Force works at right angle with respect to the plane joining of the Electric Current and Magnetic Field Force.
- The Lorentz Force Principle is applied in every day's life, in what we call Motors.



Spinning of Inner Core and of Inner Mantle





The inner shell of the Inner Mantle

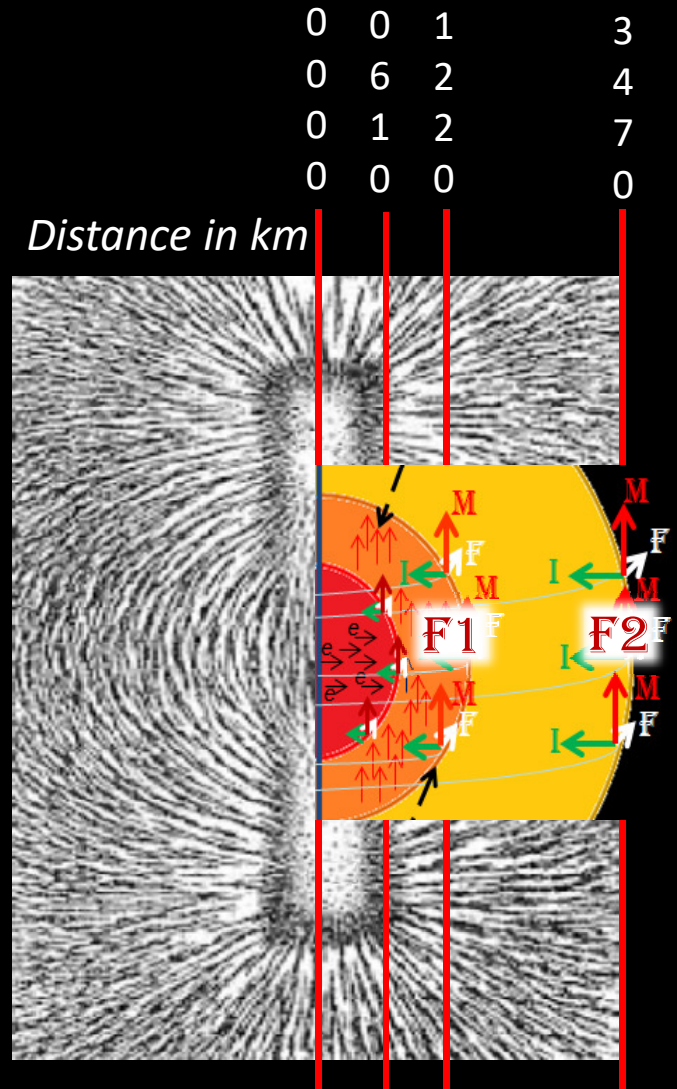
- The main components of the mantle rock, **Iron Monoxide** included, don't conduct electricity at temperatures and pressures we're used to here at the surface.
- Carnegie Institution for Science in Washington, D.C., led the computer simulation. Starting from 700,000 times the pressure and 1600°C **the Iron Monoxide conducted electricity as well as a metal**. At 3430°C—the temperature at the boundary between the Inner Mantle and the Outer Core—the Iron Monoxide remained a respectable conductor.
- The inner shell of the Inner Mantle could therefore be treated as a good conductor, at each point of which there exist 2 distinct forces:
 - **Electric Current** of electrons arriving from the Outer Core
 - **Magnetic Field Force** lines sourced from the Inner Core that bath all the geo layers of the planet

<http://www.sciencemag.org/news/2012/01/electric-material-mantle-could-explain-earths-rotation>

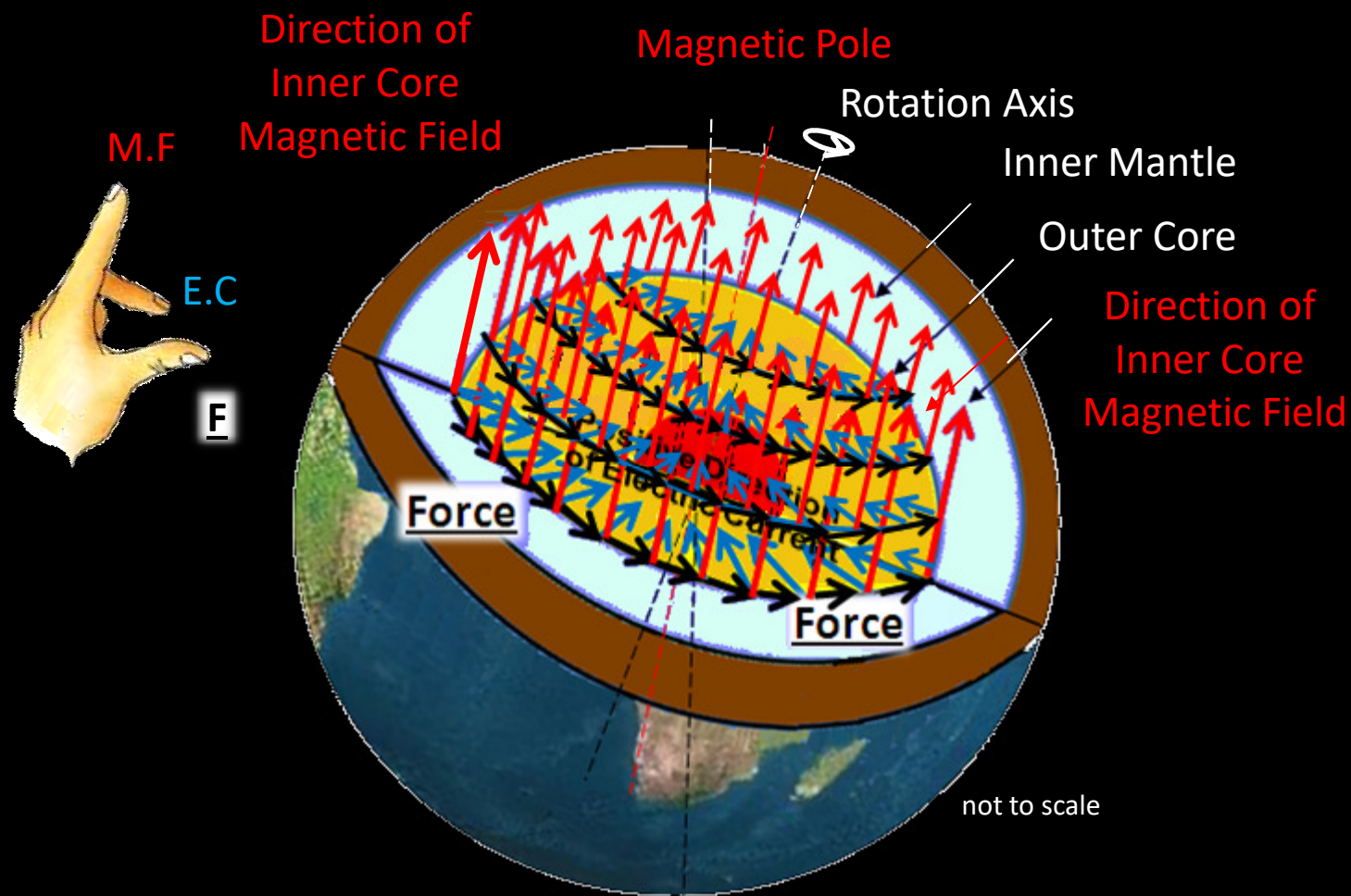


The Inner Core spins faster than the Rest

- On 2011 a research by University of Cambridge concluded that the Inner Core is spinning faster than the rest of Earth.
- Lorentz Force at source of the magnetic field force inside the Inner Core (F1) is greater than that 3,470 km away at the Inner Mantle shell (F2). The spin speed will follow the Lorentz Force applied.
- Caught by the friction forces of the Inner Core and the Inner Mantle, the Outer Core spins at the average of the 2 speeds.
- This explains why the Inner Core spins faster than the rest of the planet

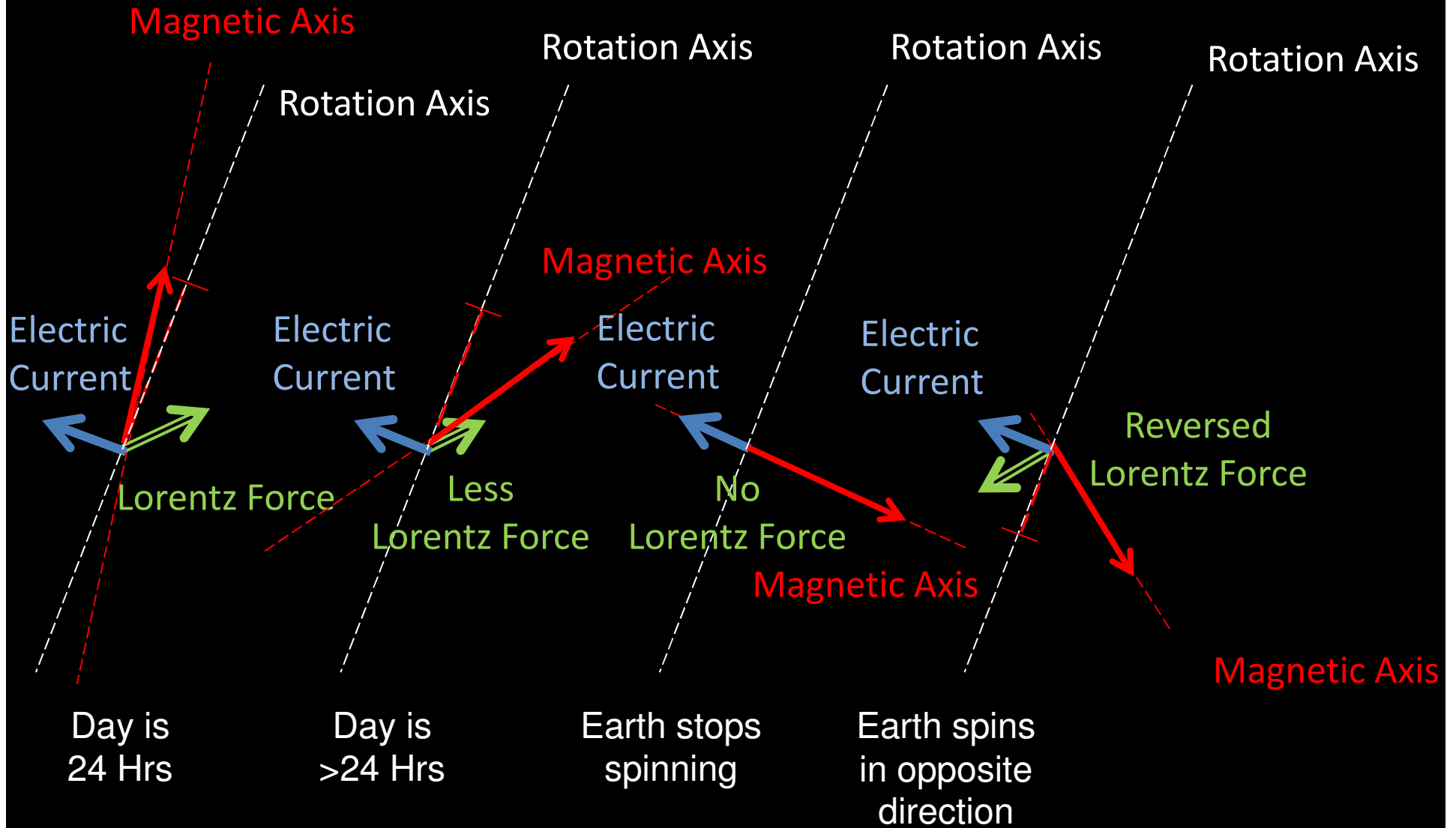


Earth spin follows Lorentz Principle



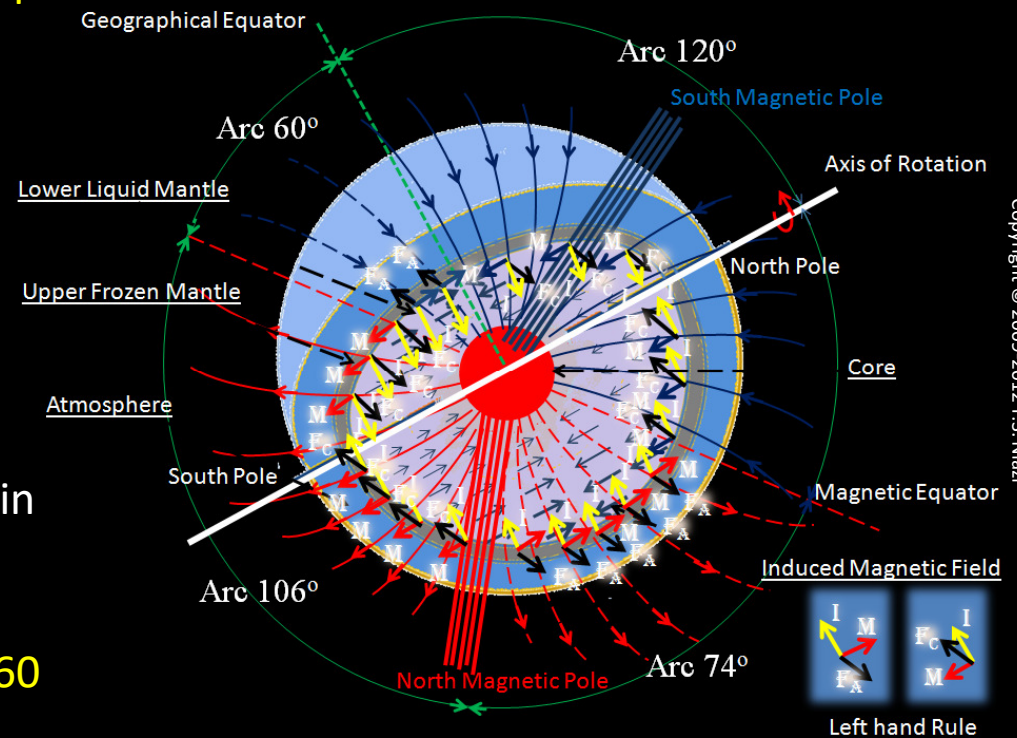
The Lorentz Force, that results along the perimeter shell, which lies between the Outer Core and the Inner Mantle, drives Earth to spin about its axis.

Earth spin speed can change



Why does Saturn spin in Reverse

- Why when the polar regions of Uranus receive a greater energy input from the Sun than its equatorial regions, **Uranus is hotter at its equator than at its geo poles?**
- Why **the magnetic field varies**. At the northern region is stronger than the magnetic field at the southern region ?
- Why **Uranus spins in a clockwise direction** about its axis, when Earth, currently, spins in an anti-clockwise direction about its axis?
- Why does **the wind average speed reach 560 miles/ hour** (900km/ hour) on Uranus while on Earth an inconceivable top wind speed of Tornado stands at 319 to 379 mile/ hour (510 to 600 km/ hour)?

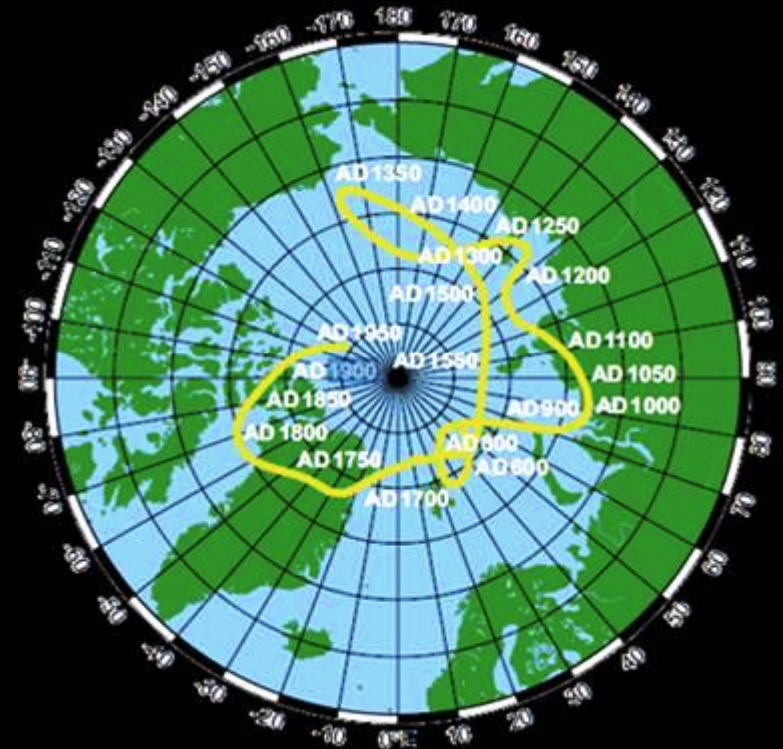


<https://planet-earth-2017.com/2017/07/10/what-makes-saturn-spin-about-its-axis-in-reverse-direction-to-earth/>

Magnet makes the Climate go around

The Magnetic Poles are always on the move

- The **Magnetic Poles keep wandering** over the surface of Earth.
- Currently, the South Magnetic Pole in the northern hemisphere is moving away from Canada towards Siberia .
- The North Magnetic Pole in the southern hemisphere is also moving towards Australia.
- As both Magnetic Poles are moving eastward the distance between the two magnetic poles has increased in 800 km in the last 100 years.

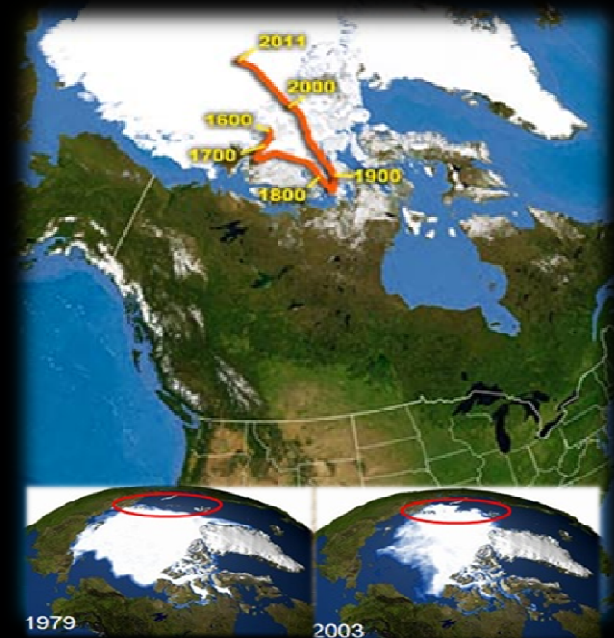
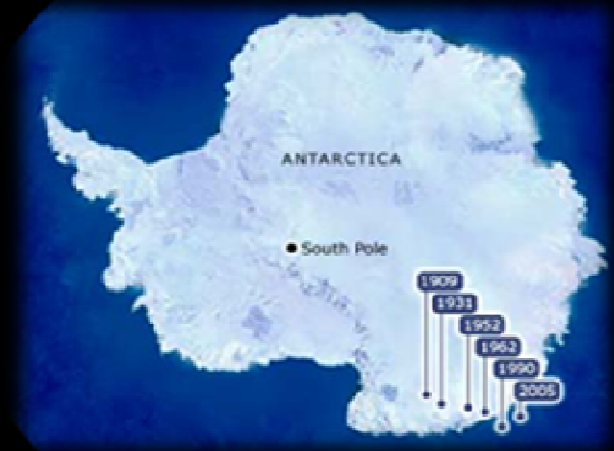


<http://www.earthweek.com/2011/ew110311/ew110311h.html>

<http://news.berkeley.edu/2014/10/14/earths-magnetic-field-could-flip-within-a-human-lifetime/>

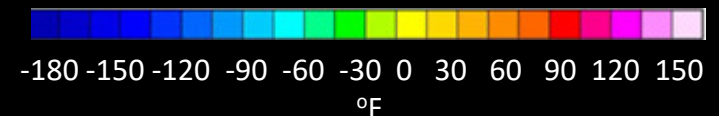
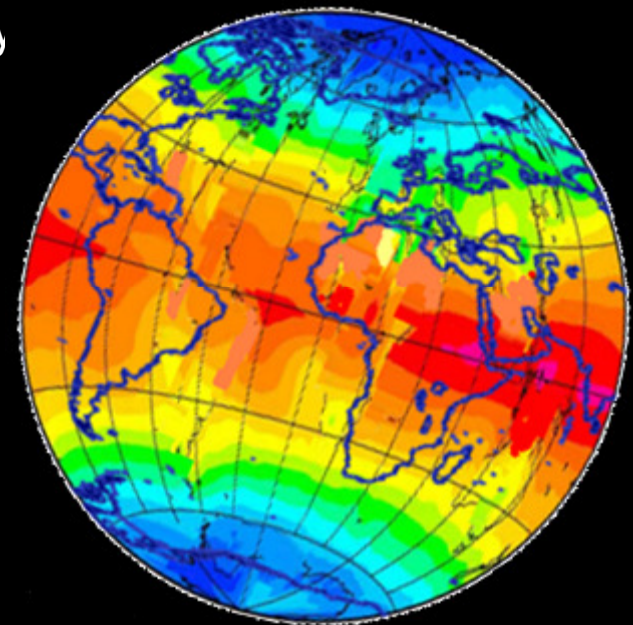
Observations

- The ice cap is shrinking on the west Antarctica where the Magnetic Pole is moving away from and is growing on the east Antarctica where the Magnetic Pole is moving.★
- The ice cap is shrinking on west of the Arctic where the Magnetic Pole is moving away from and is growing on east of the Arctic where the Magnetic Pole is moving towards
- The Ice Cap on Mars is also melting ..too.★



Regions of Homogenous Climate

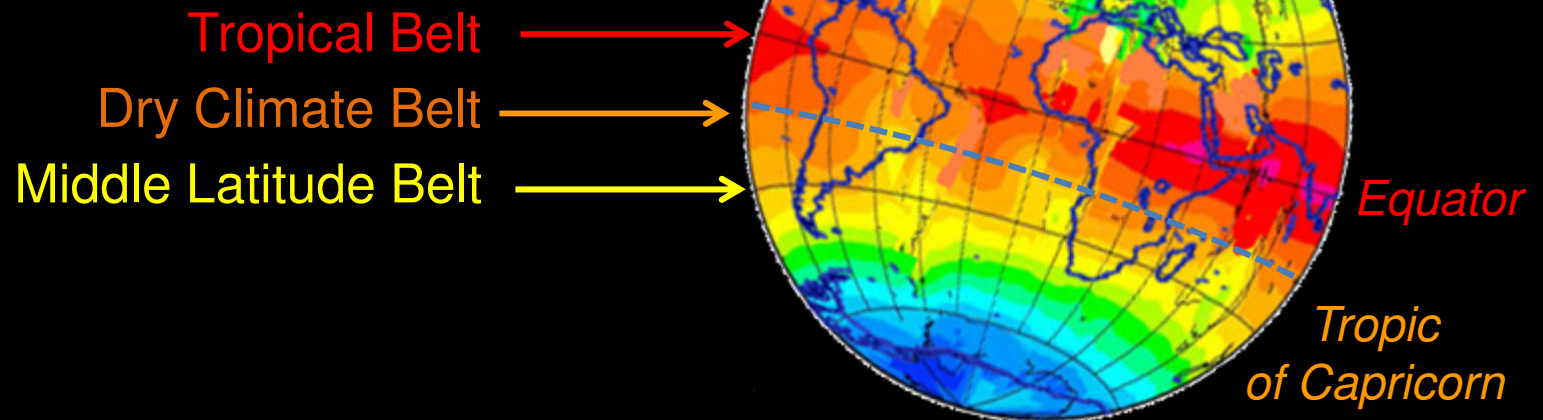
- Tropical Belt, moist hot climate.
- Dry Climate Belt, little rain and a huge daily temperature range, arid and desert.
- Middle Latitude Belt, humid, warm, dry summers and cool, wet winters.
- Continental Belt, moderate climate, precipitation is high.
- Cold Polar Belt, cold climate, permanent ice and tundra



Temperature Belts Dilemma

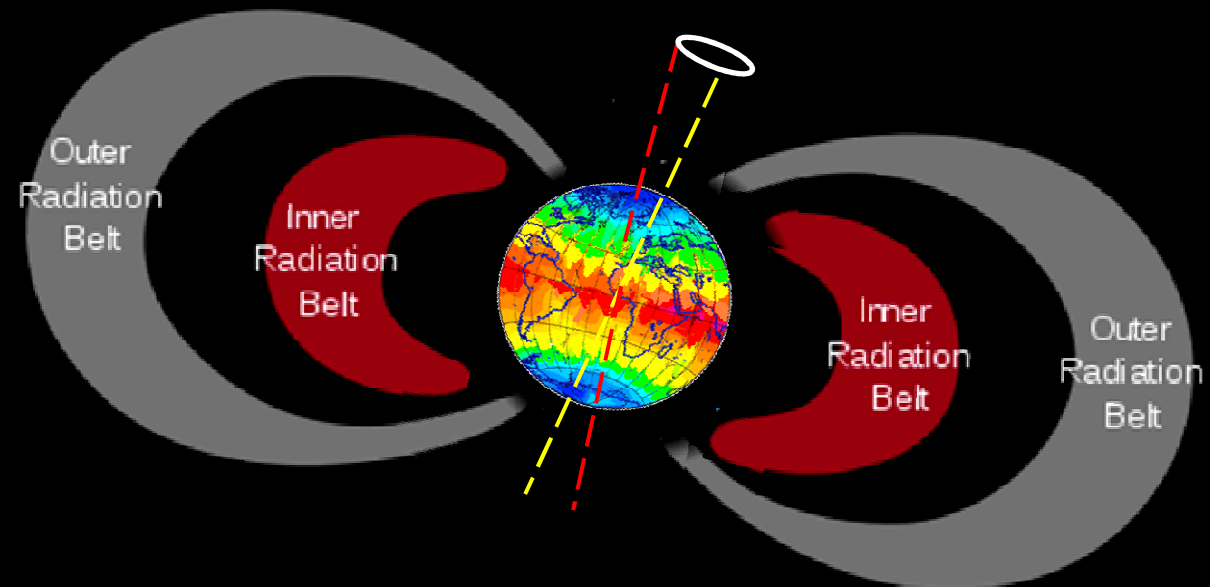
On December 21st (*Winter Solstice*), Radiation and Light reach the Earth, at right angle, Zenith line, at the Tropic of Capricorn. Yet :

- Temperatures at the **Tropical Belt** and **Middle Latitude Belt** vary while both locations have same distance & angle of projection from the Sun !
- Although *is closer to the Sun, receives sun radiation at right angle, and has longer hours of daylight*, the temperature at the Tropic of Capricorn is less than that at the Equator.



Sun's Emission

- The Sun emits radiation, such as X-rays, Ultraviolet, visible light, Infrared, and Radio waves.
- The Sun also emits charged particles, such as electrons and protons.:
 - **Electrons get trapped** in the Outer Magnetic Field
 - **Protons get trapped** in the Inner Magnetic Field.

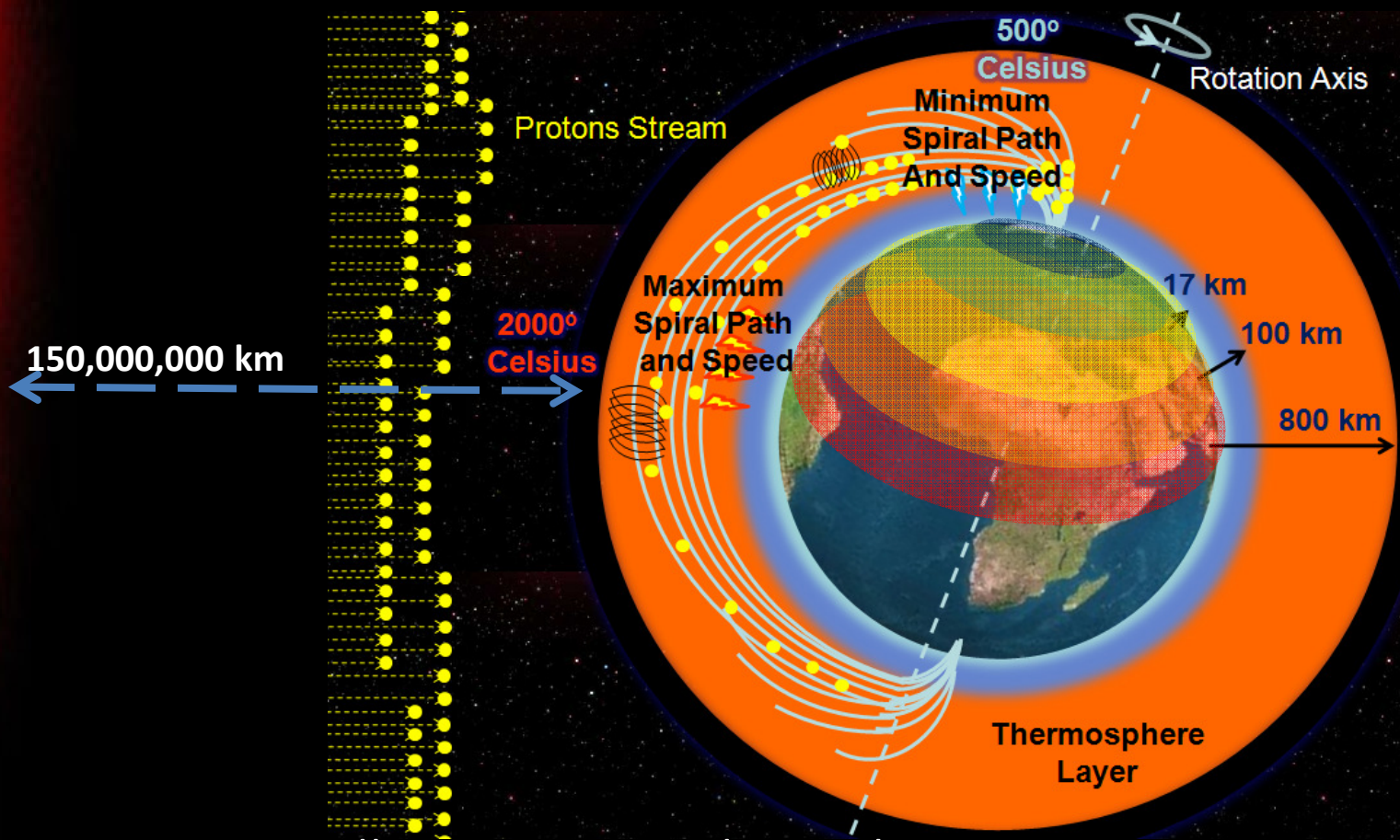


Protons swing and collide with each other

2,000,000°

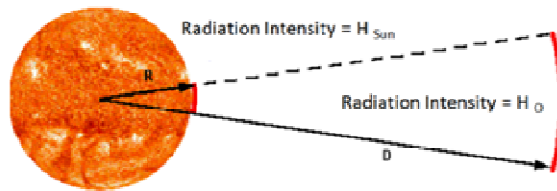
- **Protons** spiral along the magnetic field force lines in various pitch-lengths and speeds. Protons have more chances to collide with one another at highest speed at mid distance between magnetic poles.

6000°



<http://www-spod.gsfc.nasa.gov/Education/Iradbelt.html>

Thermal radiation from the Thermosphere is 1.8 fold stronger than that directly from the Sun

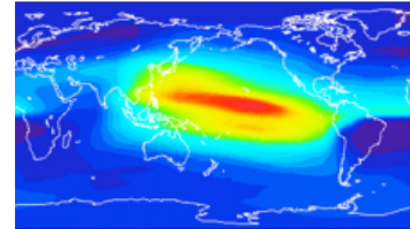


The solar irradiance on Earth at 150 million km D from the Sun is found by dividing the total power emitted from the sun by the surface area over which the sunlight falls. The total solar radiation emitted by the Sun is given by σT_s^4 , as defined by the Boltzmann's blackbody equation multiplied by the surface area of the Sun ($4\pi R_{sun}^2$) where R_{sun} is the radius of the Sun. The surface area over which the power from the Sun falls will be $4\pi D^2$. Where D is the distance of the object from the Sun. Therefore, the solar radiation intensity, H_{E-S} in (Watt/m²), incident on the Earth looks as follows, where

$$H_{E-S} = \frac{R_{sun}^2}{D^2} H_{Sun}$$

- H_{E-S} is the radiation intensity (in W/m²) at the Earth's Troposphere due to radiation received from the Sun.
- H_{Sun} is the radiation density at the Sun's surface (in W/m²) as determined by Stefan-Boltzmann's blackbody equation $E = \sigma T_s^4$; where $\sigma = 5.67 \times 10^{-8} \text{ W/m}^2 \times \text{K}^4$.
- T_s is the temperature of the surface of the Sun at 6,000° Kelvin
- R_{sun} is the radius of the Sun in meters as shown in the figure above; and
- D is the distance from the Sun to the Earth's surface in meters as shown in the figure above.

It is therefore found that the radiation intensity reaching the Earth from the Sun is 1,366 Watt/m².



$$H_{E-T} = \frac{\sigma T^4 \times S_{\text{heat ellipsoid in thermosphere}}}{S_{\text{heat ellipsoid reaching Earth surface}}}$$

- H_{E-T} is the radiation intensity (in W/m²) at the Earth's Troposphere due to radiation received from the Thermosphere.
- T is the temperature of the mid distance between the two magnetic poles at the Thermosphere and is taken at average of the highest of 2,000° Kelvin and the lowest of 450° Kelvin i.e. 1,225° Kelvin.
- $S_{\text{heat ellipsoid in thermosphere}}$ is the highest thermal radiation region of the Thermosphere that is modeled as an ellipsoid of radii equal to the weakest magnetic contour at 24 mTesla (400 km, 1650 km) and depth of 100 km (where most of the Sun's charged protons get trapped), and is calculated as per following, $S = 4\pi [(a^2 b^2 + a^2 c^2 + b^2 c^2)/3]^{1/2}$; where $p=1.6075$ and $a=400$ km, $b=1,650$ km, $c=100$ km.
- $S_{\text{heat ellipsoid reaching Earth surface}}$ is the reach of the thermal radiation area from the Thermosphere which is half of the surface area of Earth which equals to $1/2 \pi r^2$; where r is the radius of Earth standing at 6,000 km.
- The selection of the highest thermal radiation as an ellipsoid within the Thermosphere layer is driven by the shape of the ion map measured for the Thermosphere layer at <http://ccmc.gsfc.nasa.gov/models/modelinfo.php?model=CTIPe>

It is therefore found that the radiation intensity, which reaches Earth from the Thermosphere is 2,534 Watt/m².

<http://planet-earth-2017.com/heat-not-from-the-sun/>

Global Warming

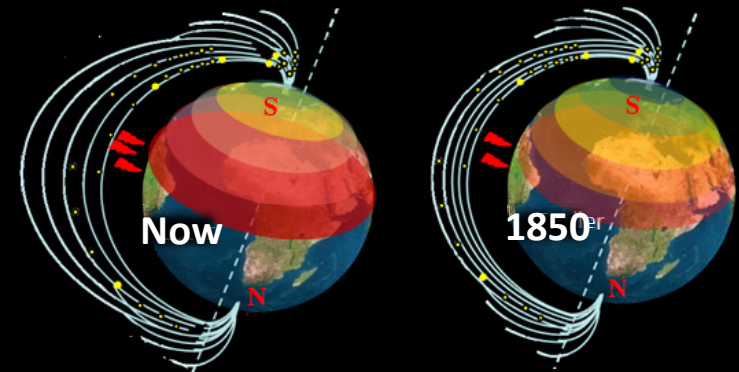
• Global Warming:

Earth Magnetic Poles have started moving eastwards since 160 years, leading to weaker field in the western hemisphere and southern ocean; causing:

- Trapped Sun charged particles; Protons, to spiral faster along the Magnetic Field Force lines in go/ fro mode between the 2 Magnetic Poles.

- The collision of spiraling protons at higher speed generate more thermal radiation leading the surface temperature to increase.

- More protons are able to penetrate weakening Magnetic Field, bombarding at high Kinetic energy land and oceans, leading to additional increase of surface temperature and release of oceans Methane Hydrates, the outcome of which are 2 Green House gases $\text{CH}_4 + 2\text{O}_2 = \text{CO}_2 + 2\text{H}_2\text{O}$.

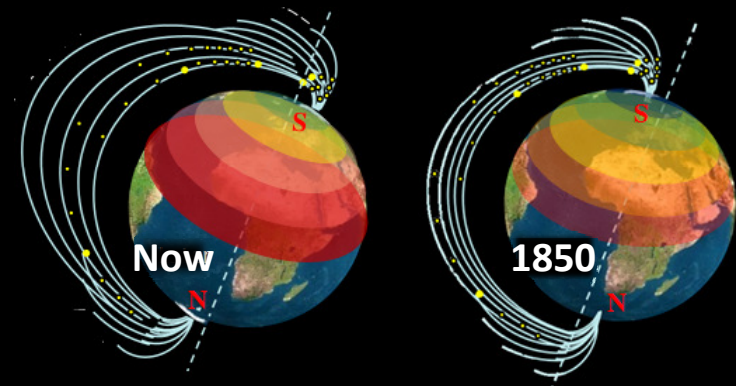


Climate Exchange

• Climate Exchange:

The Magnetic Poles are moving eastward; from Canada towards Siberia in the northern hemisphere and from Antarctica to Australia in the southern hemisphere causing:

- The Magnetic Field intensity geo map to tilt.
- The Protons' speed collision map to tilt.
- The Thermosphere temperature map, ranging from $+500^{\circ}\text{C}$ ~ $+1800^{\circ}\text{C}$, not only to increase as explained on the global warming page but also to tilt following the move of the Magnetic Poles.
- The Temperature Belts on the Earth's surface follow the Thermosphere temperature map and tilt synchronously.
- Cold temperature geographies are becoming warmer and vice versa



A Paradigm Shift that changes our Understanding of the Past and Look onto the Future

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Earth Changes

Earthquakes, Wandering Magnet, Poles, and Climate Change

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Climate Change

What pulls the Inner Core, the main Magnet, to tilt?

At a small-scale, it takes a Magnet to pull a Magnet. At a large-scale it takes a Planet's magnet to pull another Planet's magnet. Scientists confirm eleven planets in the solar system including three dwarf planets. International Astronomical Union (IAU) defines a

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