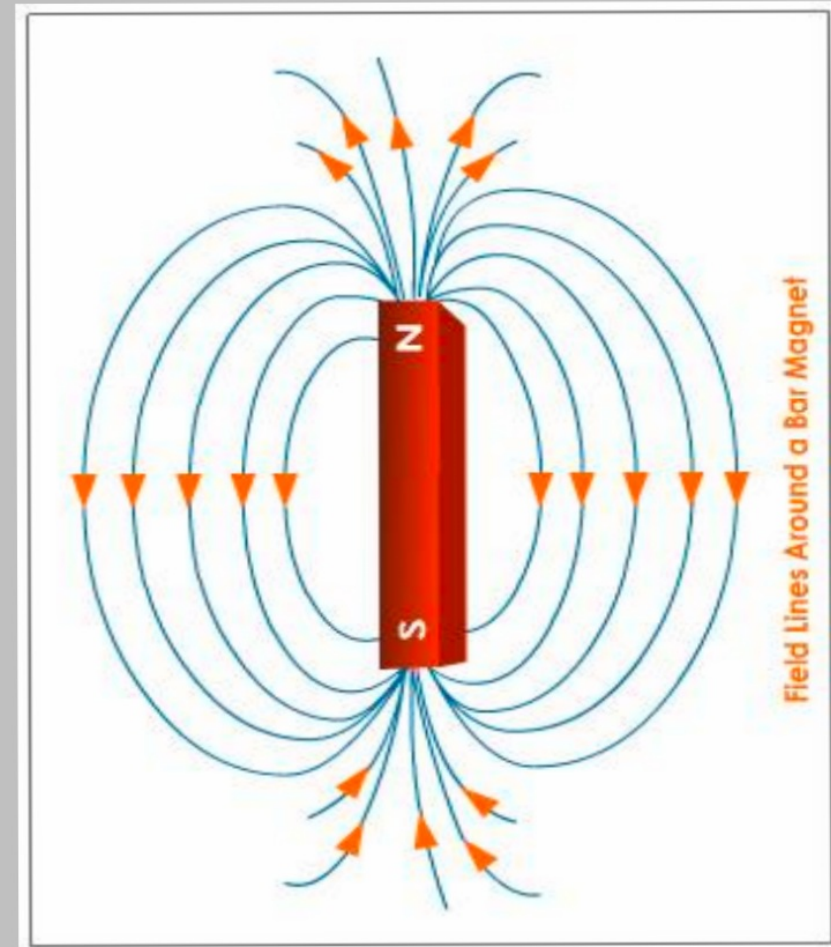
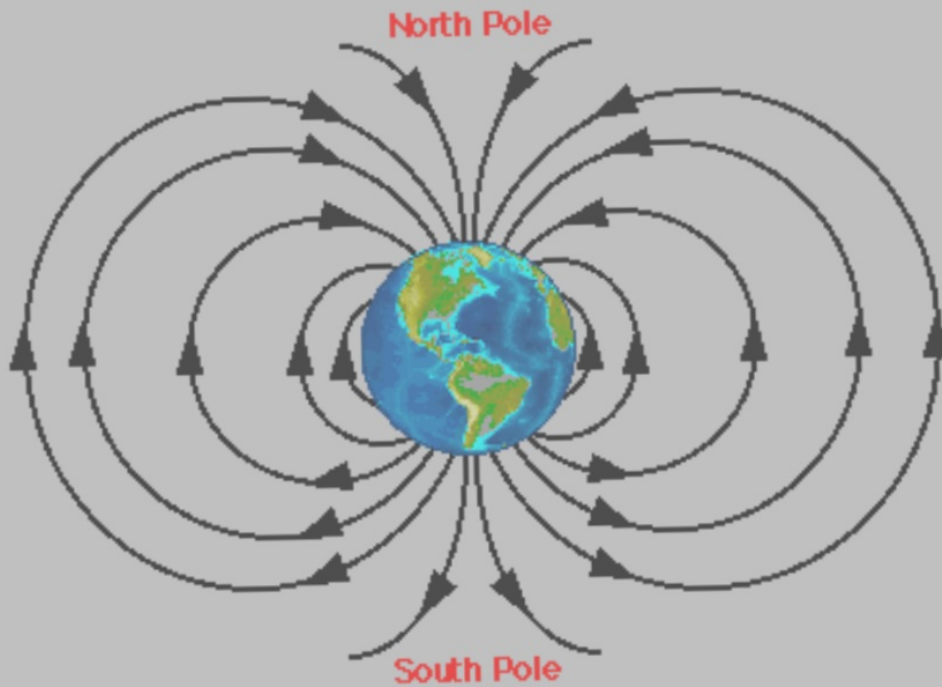


Earth's Magnetic Field

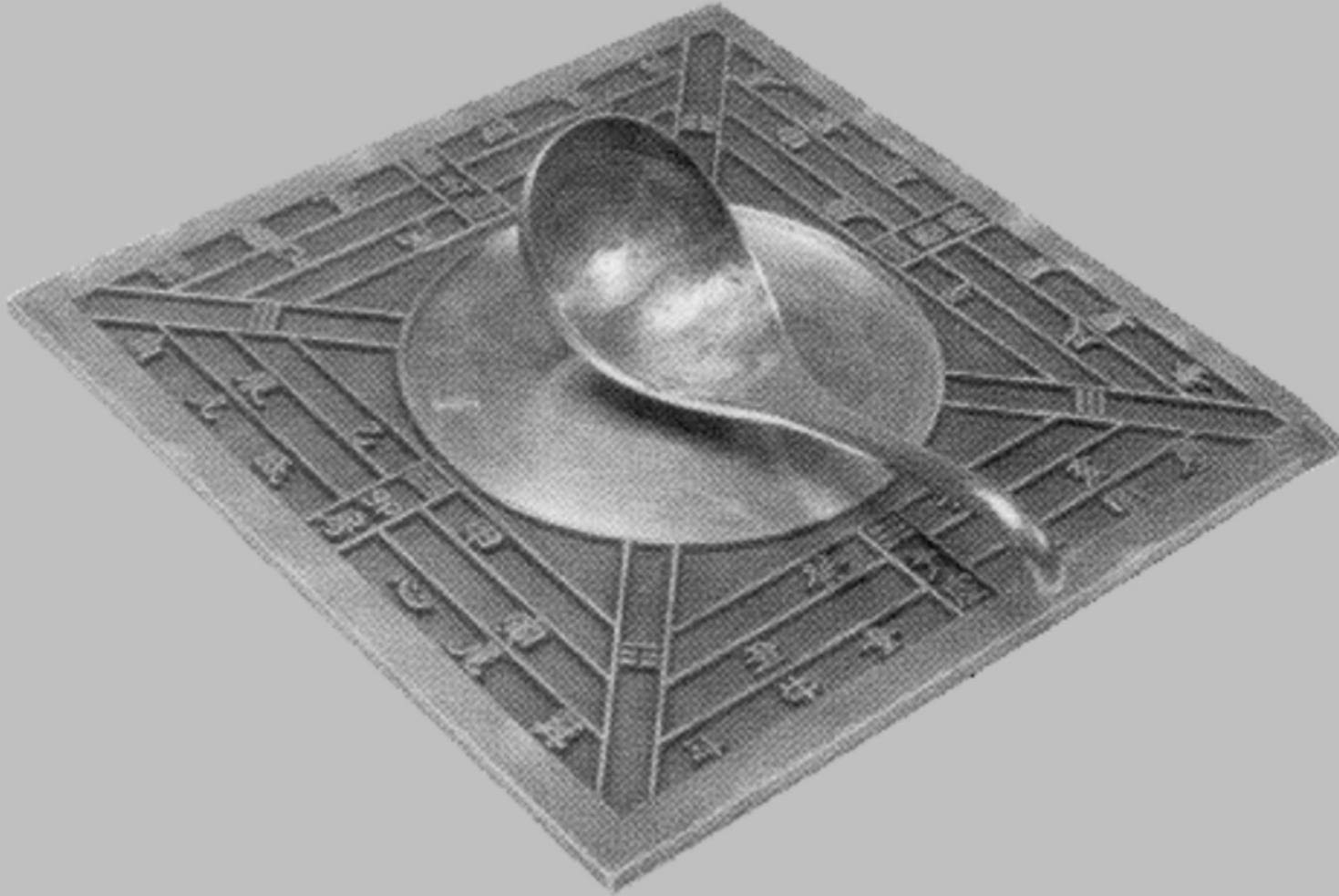


Lodestone

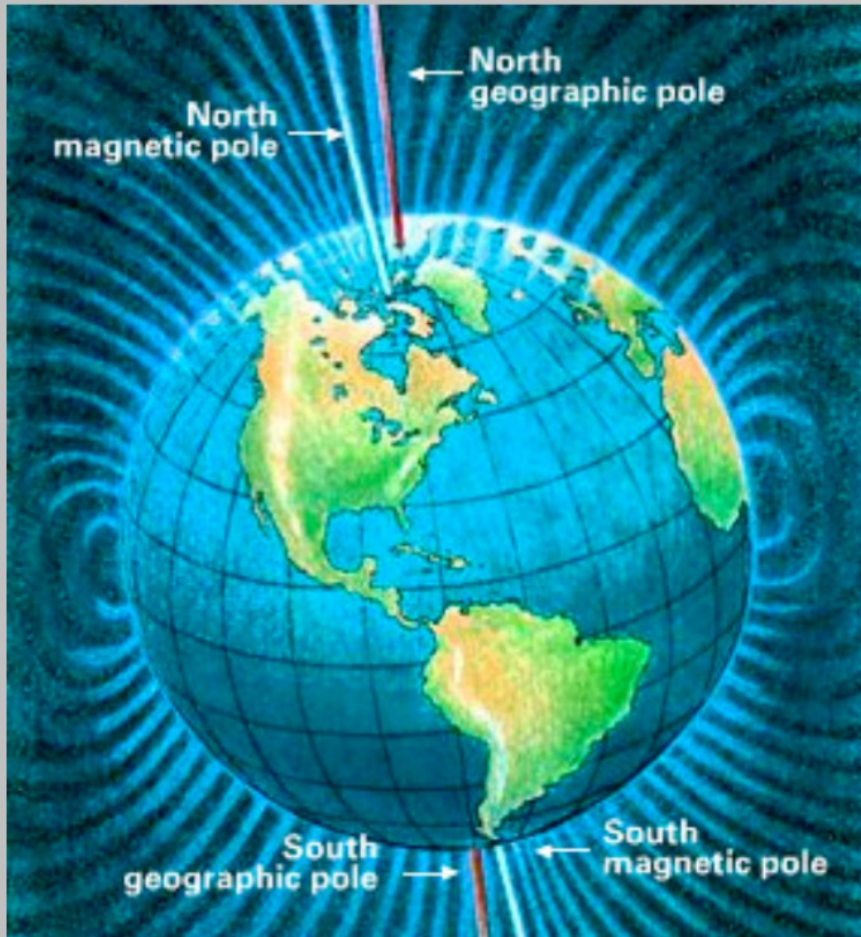


- Natural magnetic rock found near Earth's surface.
- First discovered over 2,000 years ago.
- Greeks discovered that one side always pointed north
- Chinese used it as a compass

Lodestone Compass



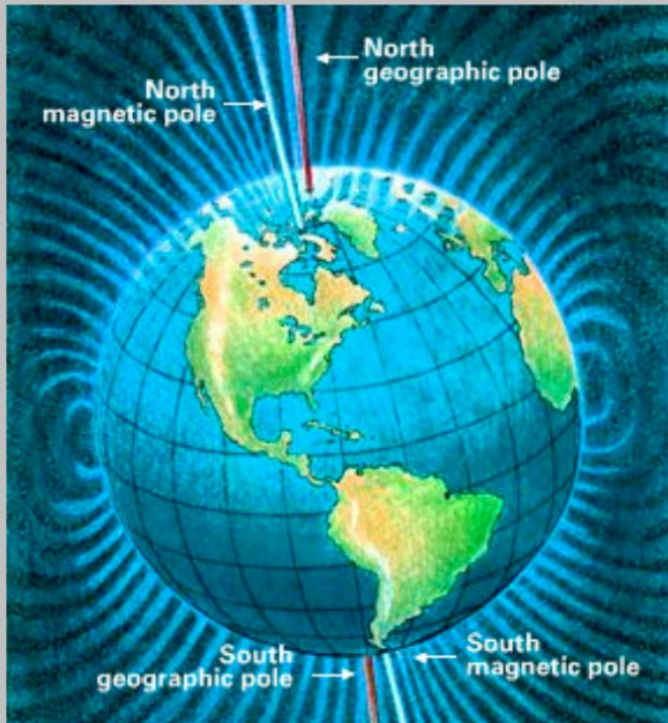
Earth's Magnetism



Magnetic North
& Geographic North

Magnetic South
& Geographic South

Geographic Poles: the ends of the invisible axis that Earth rotates on.



Magnetic Poles: where Earth's magnetic field points directly downward (in the North) or upward (in the South).

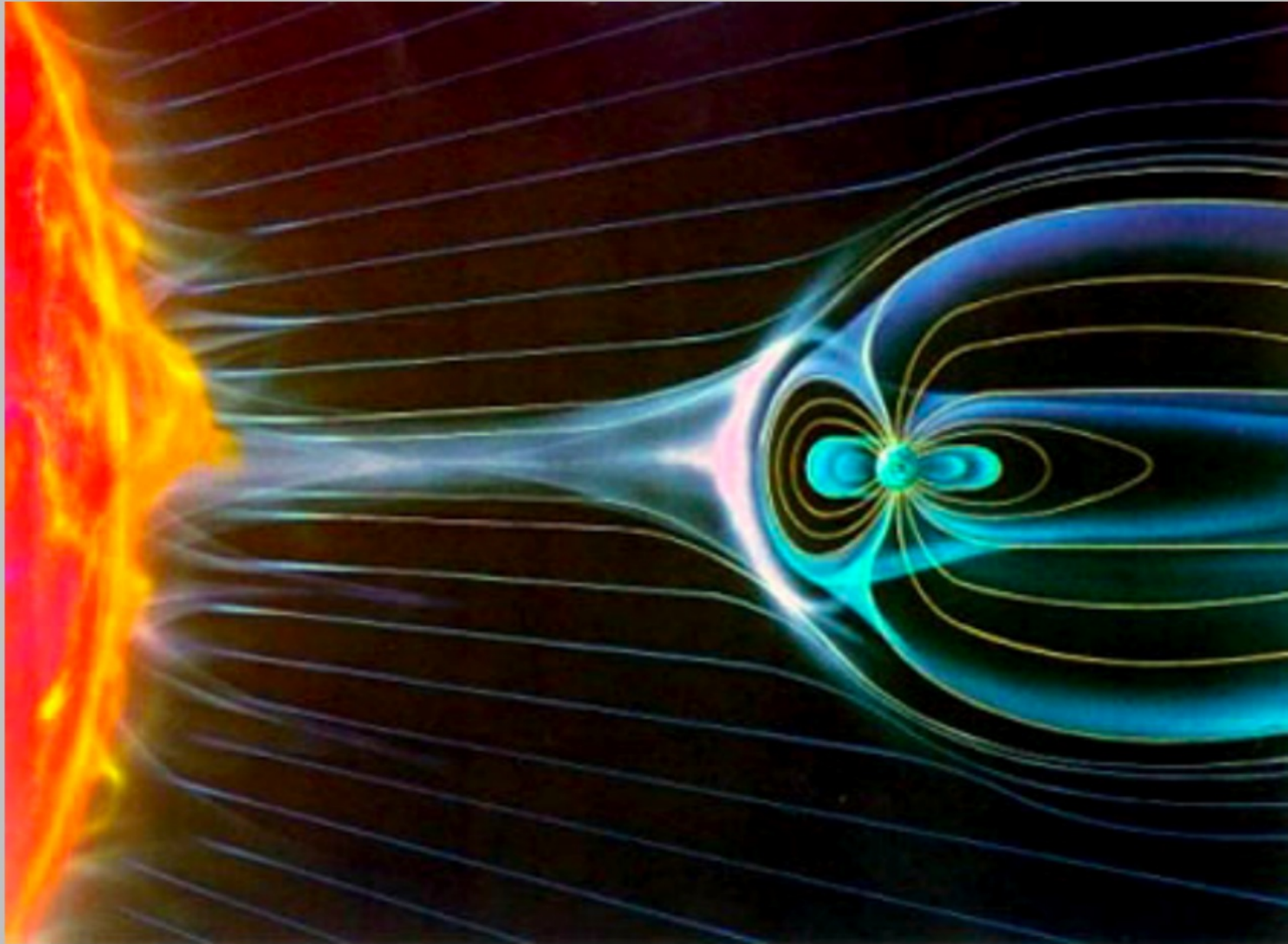
- Magnetic and Geographic poles are not in the same place.
- Magnetic poles move!

AURORA BOREALIS

"The Northern Lights"



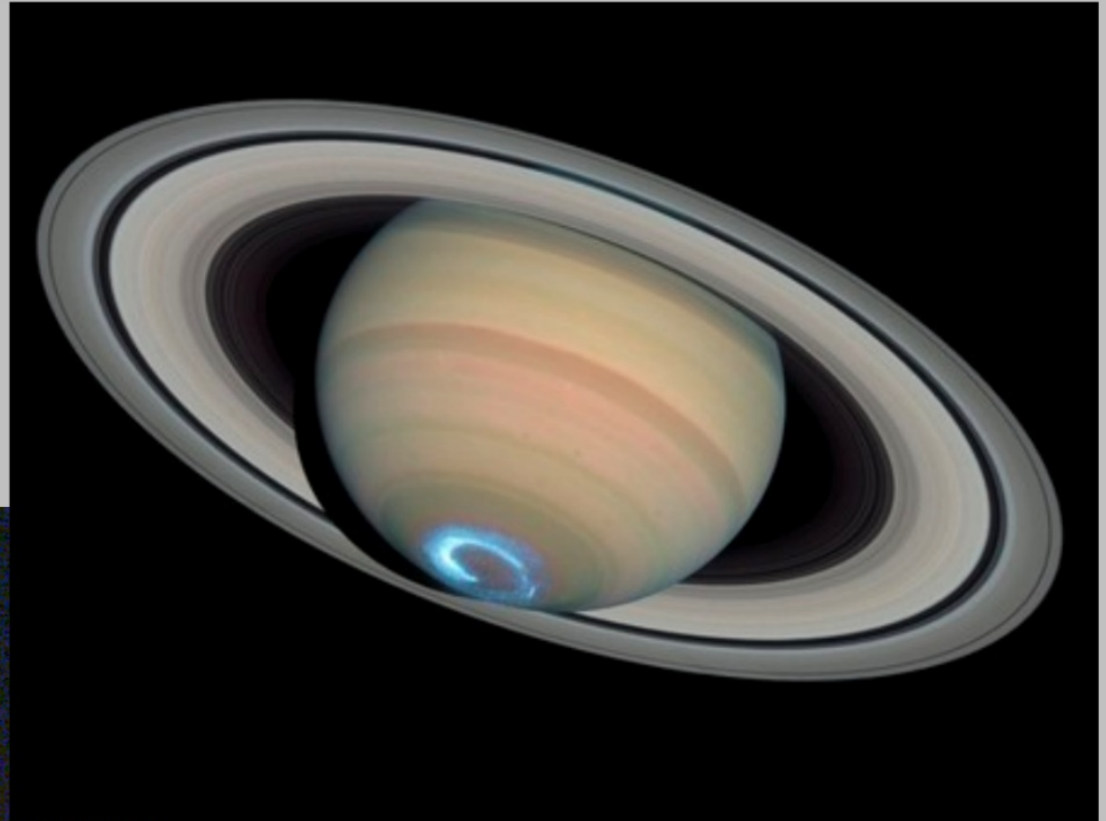
- Created when particles from space are trapped in Earth's magnetic field





Auroras on other planets

Jupiter



Saturn