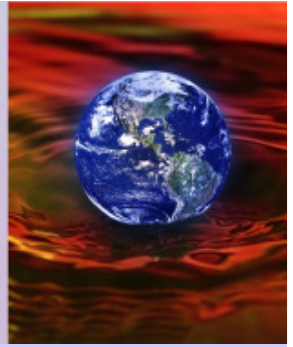




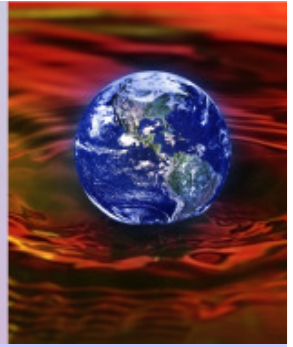
# the electric bridge



- Introduction
- Ageless Wisdom
- The Electric Universe
- Galaxies
- Solar System
- Planet Earth
- Cells
- Conclusion



# the electric bridge

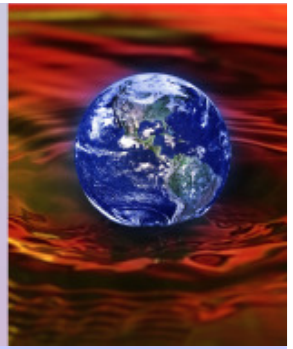


**Cosmology according to science:**

- ❖ **Gravitation (Einstein: relativity)**
- ❖ **Universe is electrically neutral.**



# the electric bridge



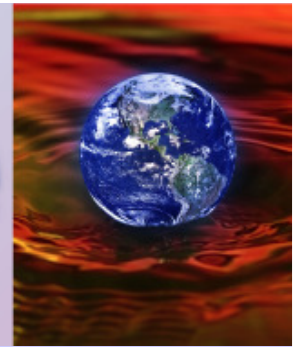
**Cosmology according to science:**

- ❖ Gravitation (Einstein: relativity; basic equation).
- ❖ Universe is electrically neutral.
- ❖ Big Bang: “There was nothing, which explodes.”
- ❖ Black holes: First absorbing every possible thing, including light. Later still emitting some light.
- ❖ Dark matter: more than 90% of the universe.

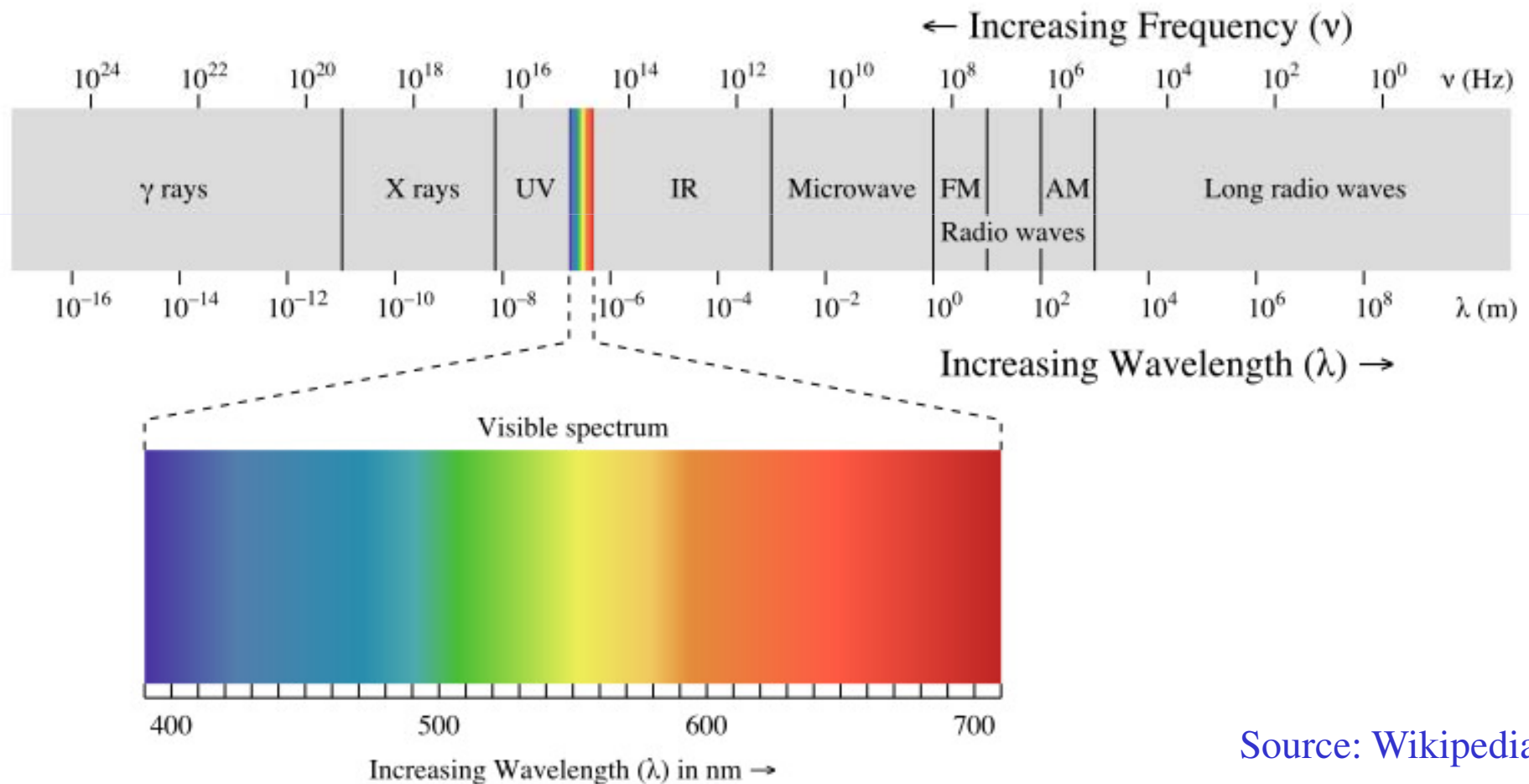
**Black holes and dark matter never observed in laboratory.**



# the electric bridge



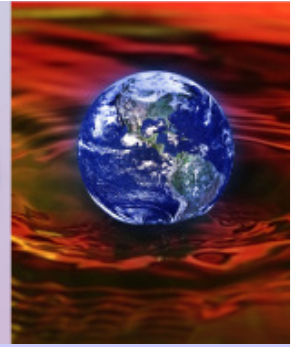
## Visible light and other electromagnetic waves:



Source: Wikipedia



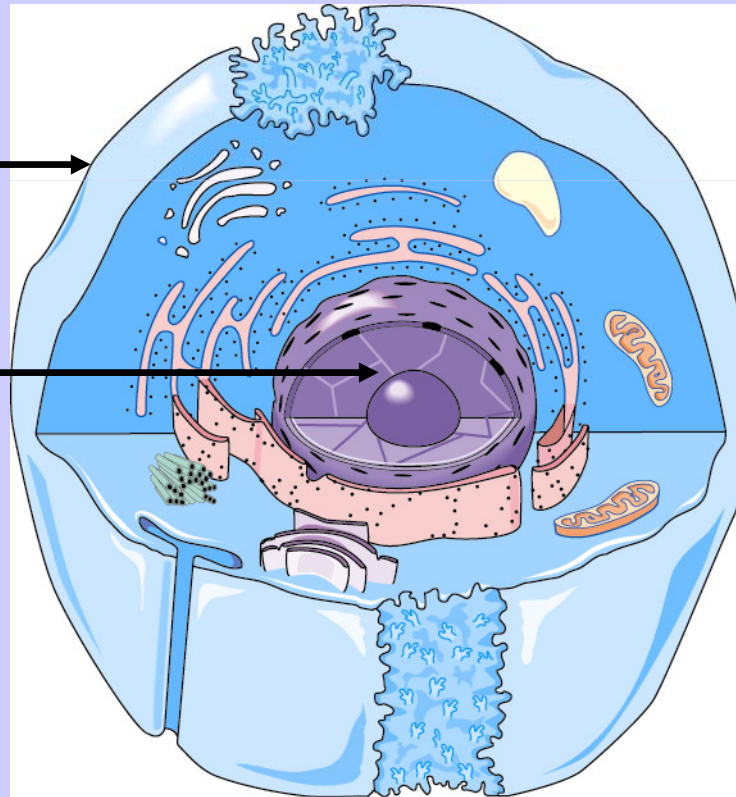
# the electric bridge



**Cell biology:**

**Wall &  
Membrane**

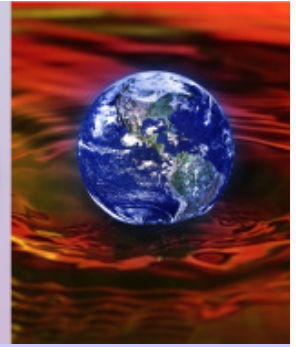
**Nucleus**







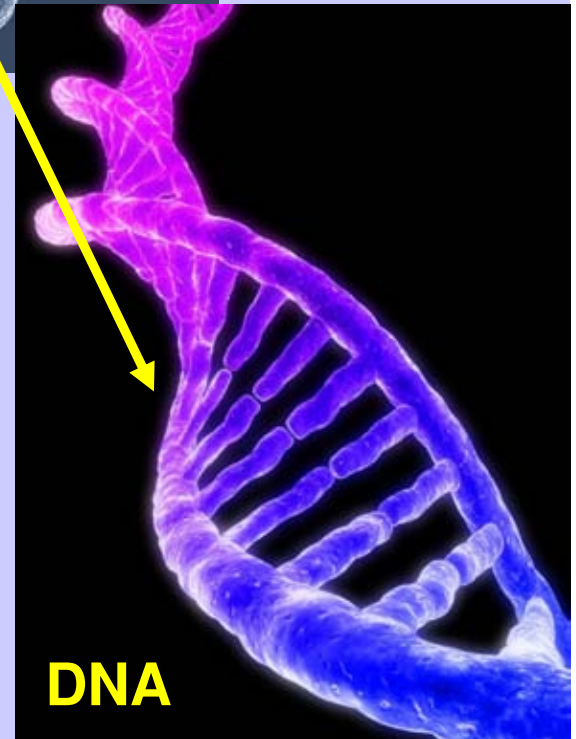
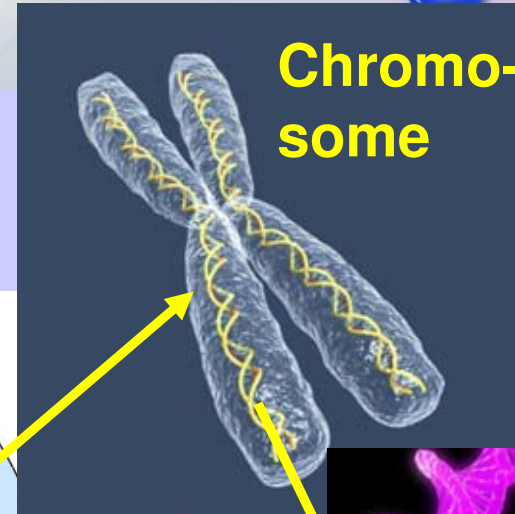
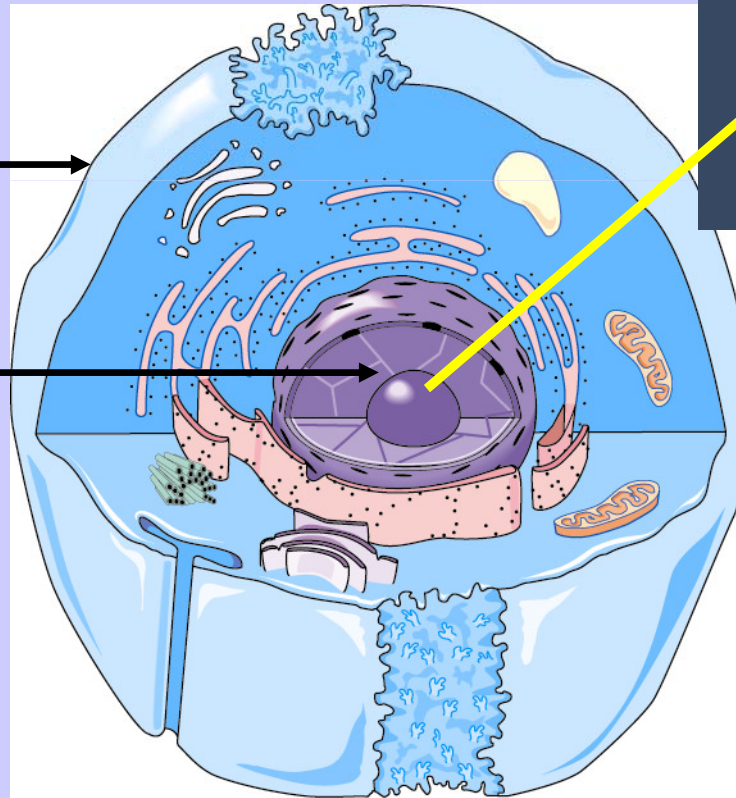
# the electric bridge



Cell biology:

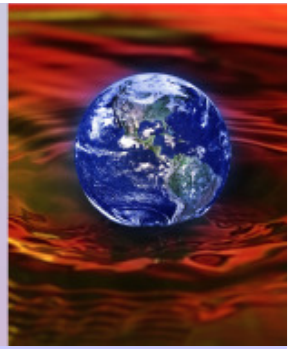
Wall &  
Membrane

Nucleus





# the electric bridge



**Cell biology (current scientific point of view):**

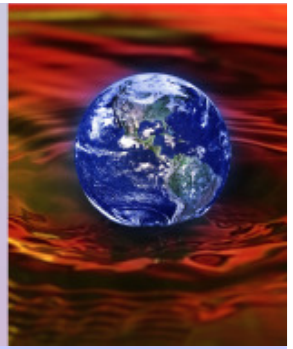
**It is by the DNA that most of our physical features are determined,  
hence the enormous interest in the search for the “human genome.”**

**The “genetic point of view” plays a dominant role in both biology and academic physical medicine.**

**The “genetic point of view” sometimes interferes with the field of psychology too.**



# the electric bridge



## Ageless Wisdom

**Time and Space are but states of consciousness.**

**(AAB, Telepathy and the Etheric Vehicle, p10)**

**There is no gravitation in the Newtonian sense, but only magnetic attraction and repulsion...**

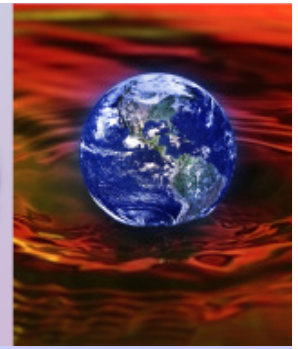
**it is by their magnetism that the planets of the solar system have their motions regulated in their respective orbits by the still more powerful magnetism of the sun, not by their weight or gravitation.**

**(HPB, Isis Unveiled, p271)**





# the electric bridge



## Ageless Wisdom

**Believing but in the law of mutual magneto-electric attraction and repulsion... come to the conclusion that 'universal gravitation is a weak force,' utterly incapable of accounting for even one small portion of the phenomena of motion.**

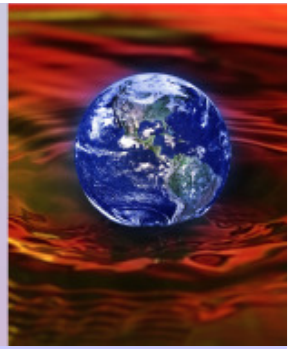
**(HPB, Collected Writings, V, p152/53)**

**The earth is a magnetic body; in fact, as some scientists have found, it is one vast magnet, as Paracelsus affirmed some 300 years ago. It is charged with one form of electricity — let us call it positive — which it evolves continuously by spontaneous action, in its interior or centre of motion.**

**(HPB, Isis Unveiled, I, p xxiv)**



# the electric bridge

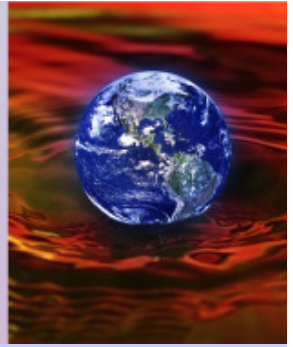


**Ageless Wisdom** (Oliver Lodge, Evolution and Creation, 1926)

1. **Æther full of intrinsic circulation**
2. **Everything flows, nothing is stagnant.**
3. **Fusing of specks of æther into electric charges.**
4. **Cohering of these charges to constitute atoms of matter.**
5. **Agglomeration of matter into clouds endowed with rotation.**
6. **Gradual increase of rotating speed until masses emit rays which break into great stars of high temperature, the radiation loss from which makes them shrink into compacter stars from whence are born the germs of life.**
7. **Stars loose their substance, shrink, darken and perhaps ultimately disappear, leaving once more Æther and Radiation so that the whole process can conceivably begin again.**



# the electric bridge



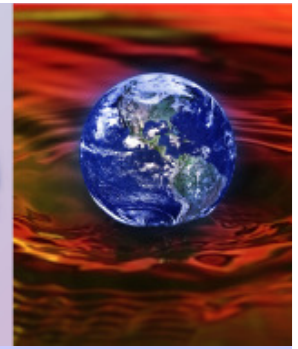
## Ageless Wisdom

Sir Oliver Lodge in “Evolution and Creation” (1926) concludes:

**Matter tends to be swallowed up by electricity again.**



# the electric bridge



## Ageless Wisdom

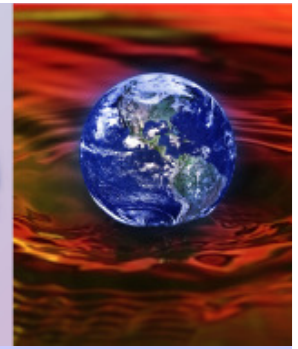
Fire by friction is to be somewhat understood by the scientists of the world, and we are harnessing to our needs the fire which heats, which gives light, and which produces motion. This is in the *physical sense* of the words.

One of the imminent discoveries will be the integrating power of electricity as it produces the cohesion within all forms and sustains all form life during the cycle of manifested existence.

(AAB, Esoteric Psychology, I-373)



# the electric bridge



## Ageless Wisdom

It produces also the coming together of atoms and of the organisms within forms, so constructing that which is needed to express the life principle.

... This will be released in fuller measure during the Aquarian age, through the agency of the seventh ray.

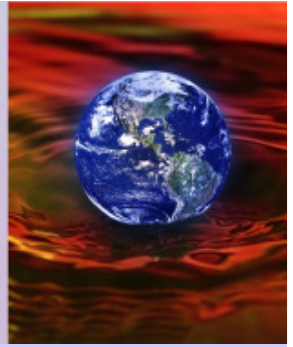
One of its earliest effects will be the increase of the understanding of brotherhood and its really scientific basis.

(AAB, Esoteric Psychology, I-374)





# the electric bridge



## Ageless Wisdom

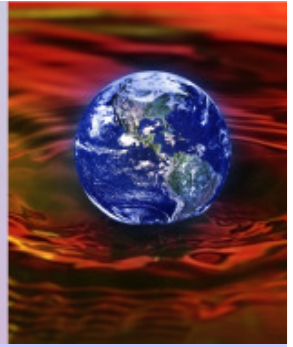
The etheric body is the next aspect of the world substance to be studied by scientists and investigators.

The time will be hastened if thinking men and women can formulate intelligent ideas anent this interesting subject.

(AAB, A Treatise on White Magic, 76)



# the electric bridge

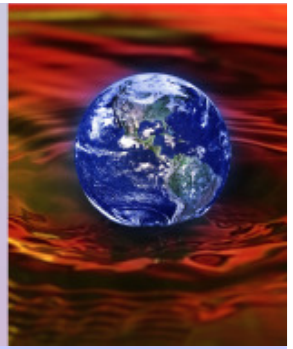


First Logos	Second Logos	Third Logos
Shiva	Vishnu	Brahma
Will	Love-Wisdom	Active Intelligence
↓	⤿	↻
Linear motion	Spiral motion	Circular motion

(AAB, Cosmic Fire, 142-145)



# the electric bridge



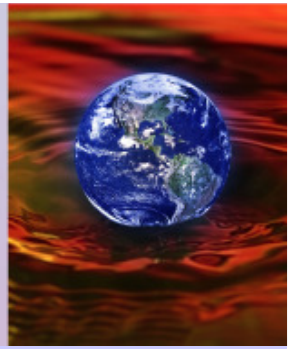
## Ageless Wisdom

From the smallest particle to the largest galactic formation, a web of electrical circuitry connects and unifies all of nature, organizing galaxies, energizing stars, giving birth to planets and, on our own world, controlling weather and animating biological organisms.

There are no isolated islands in an electric universe.



# the electric bridge



## Ageless Wisdom

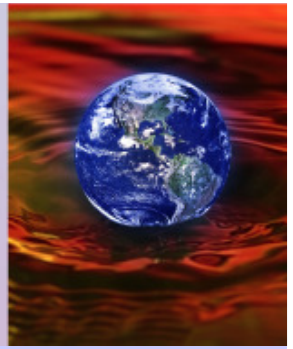
From the smallest particle to the largest galactic formation, a web of electrical circuitry connects and unifies all of nature, organizing galaxies, energizing stars, giving birth to planets and, on our own world, controlling weather and animating biological organisms.

There are no isolated islands in an electric universe.

(David Talbott and Wallace Thornhill, 2005)



# the electric bridge



## The electric universe

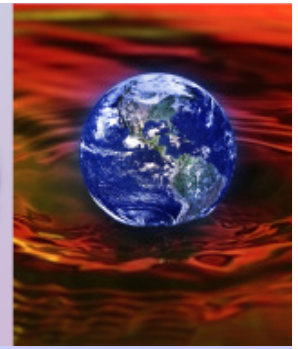
### Pioneers of the electric universe:

- ❖ Christian Birkeland (Norway, 1876-1917).
- ❖ Irving Langmuir (USA, 1881-1957, Nobel prize 1932)
- ❖ Hannes Alfvén (Sweden, 1908-1995, Nobel prize 1950)
  
- ❖ Anthony Perratt.
  
- ❖ Donald Scott, David Talbott, Wallace Thornhill.  
[www.thunderbolts.info](http://www.thunderbolts.info)





# the electric bridge



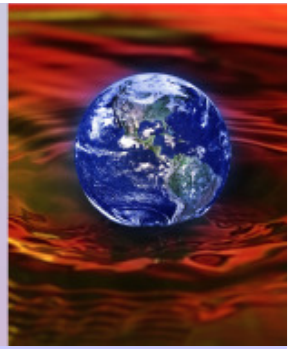
## The electric universe

### Basic assumptions:

- ❖ Space is not empty but filled with plasma.
- ❖ Celestial bodies are not electrically neutral but charged, including our Sun, planets, etc.
- ❖ Interactions between bodies are mainly electro-magnetic (the electro-magnetic force is much, much stronger than gravity -  $10^{39}$ ).
- ❖ Steady-state model: no begin, no end.
- ❖ No Big Bang.
- ❖ No need for black holes, dark matter, dark energy,... .



# the electric bridge



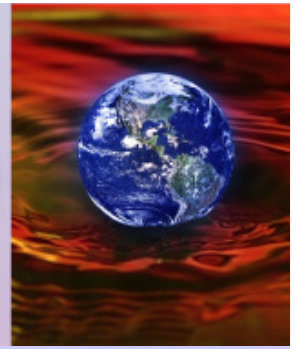
## The electric universe

### Plasma:

- ❖ A neon tube is filled with plasma.
- ❖ State of matter less dense than gas (solid, liquid, gas, plasma).
- ❖ Electrically quasi-neutral.
- ❖ Part of the electrons move freely, dissociated from nucleus, i.e. not bound to atoms.
- ❖ Within a plasma different bodies tend to form cells, separated by a wall (double layer).



# the electric bridge



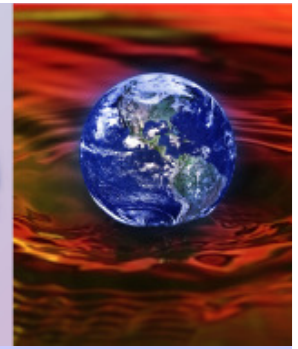
## The electric universe

### Plasma:

- ❖ Phases of plasma include (increasing electric tension):
  - Dark: non-emitting.
  - Glowing: radiating light.
  - Arcs: lightning, thunderbolts.
- ❖ Plasma physics the same in the laboratory and in the universe.
- ❖ Only on a cosmic scale processes can take much longer time.



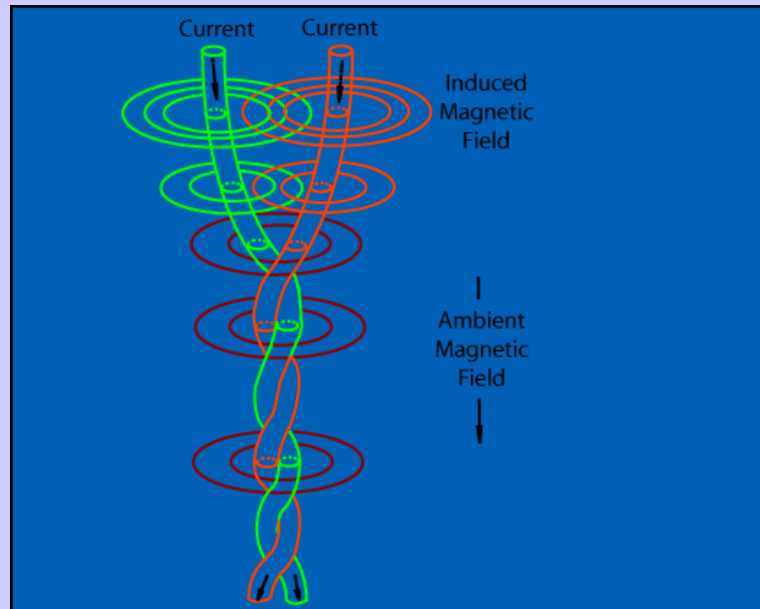
# the electric bridge



## The electric universe

### Plasma:

- ❖ Electric charges tend to form filaments and currents (Birkeland currents) in a twisted (spiral!) way:

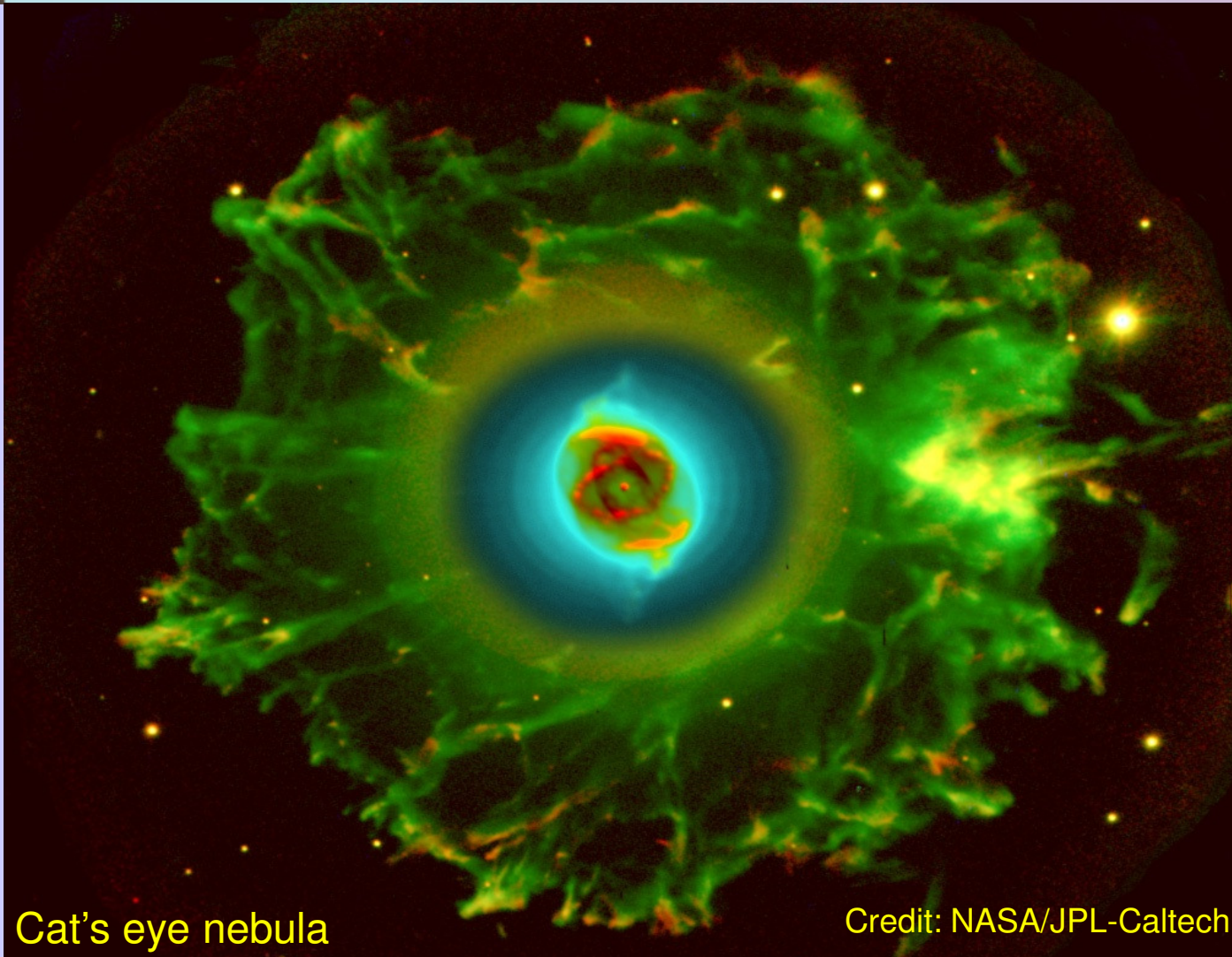
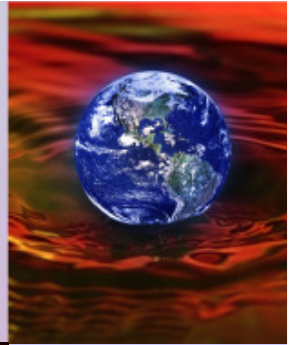






# the electric bridge

Galaxies



Cat's eye nebula

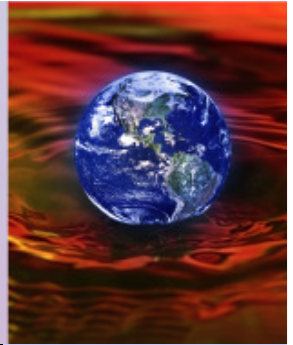
Credit: NASA/JPL-Caltech





# the electric bridge

Galaxies



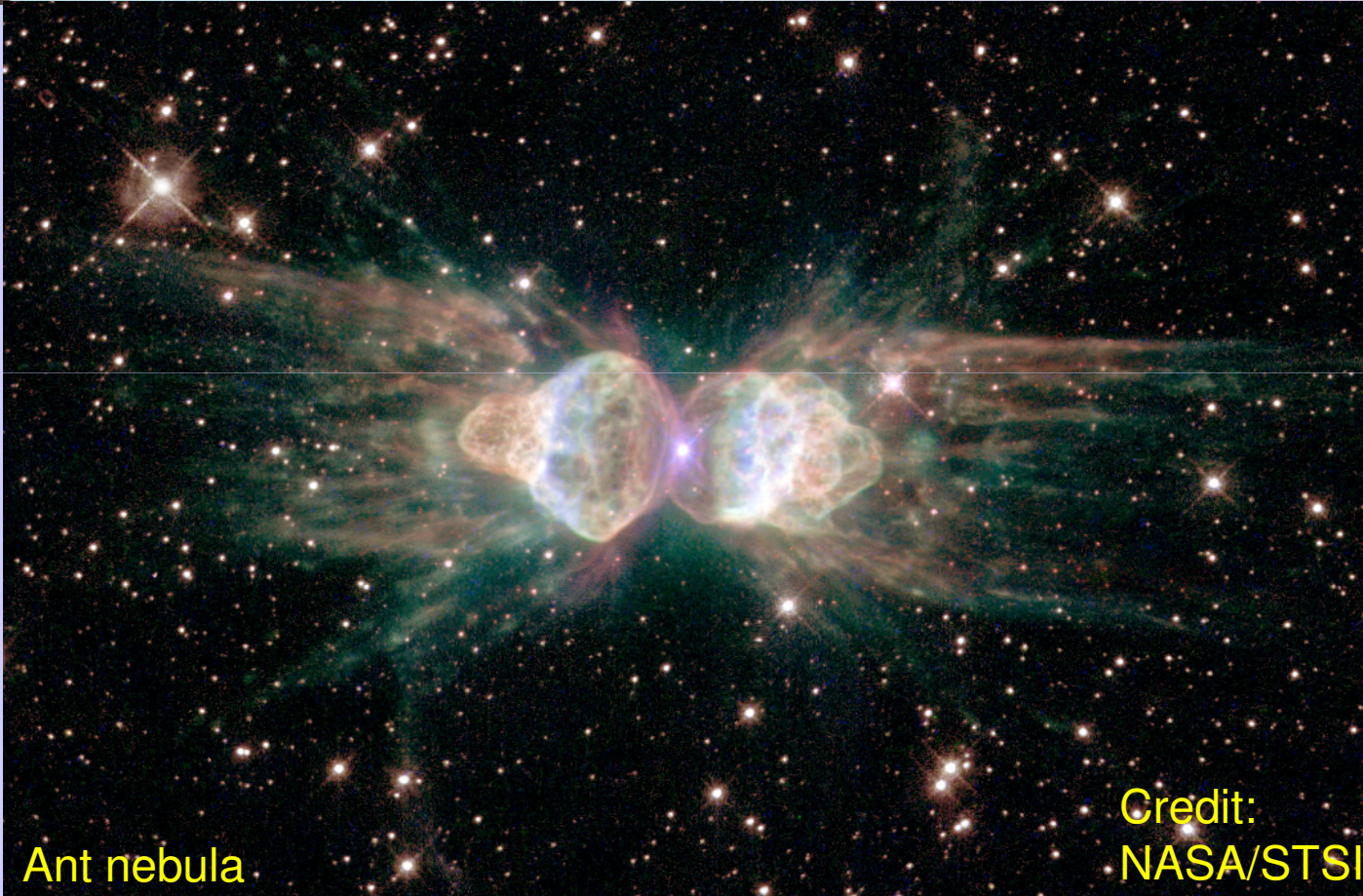
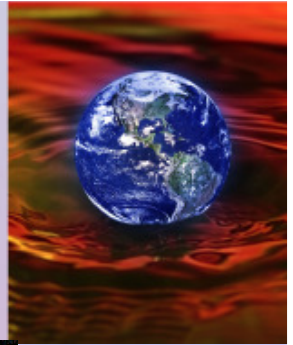
Cat's eye nebula

Credit: NASA/JPL-Caltech



# the electric bridge

Galaxies



Ant nebula

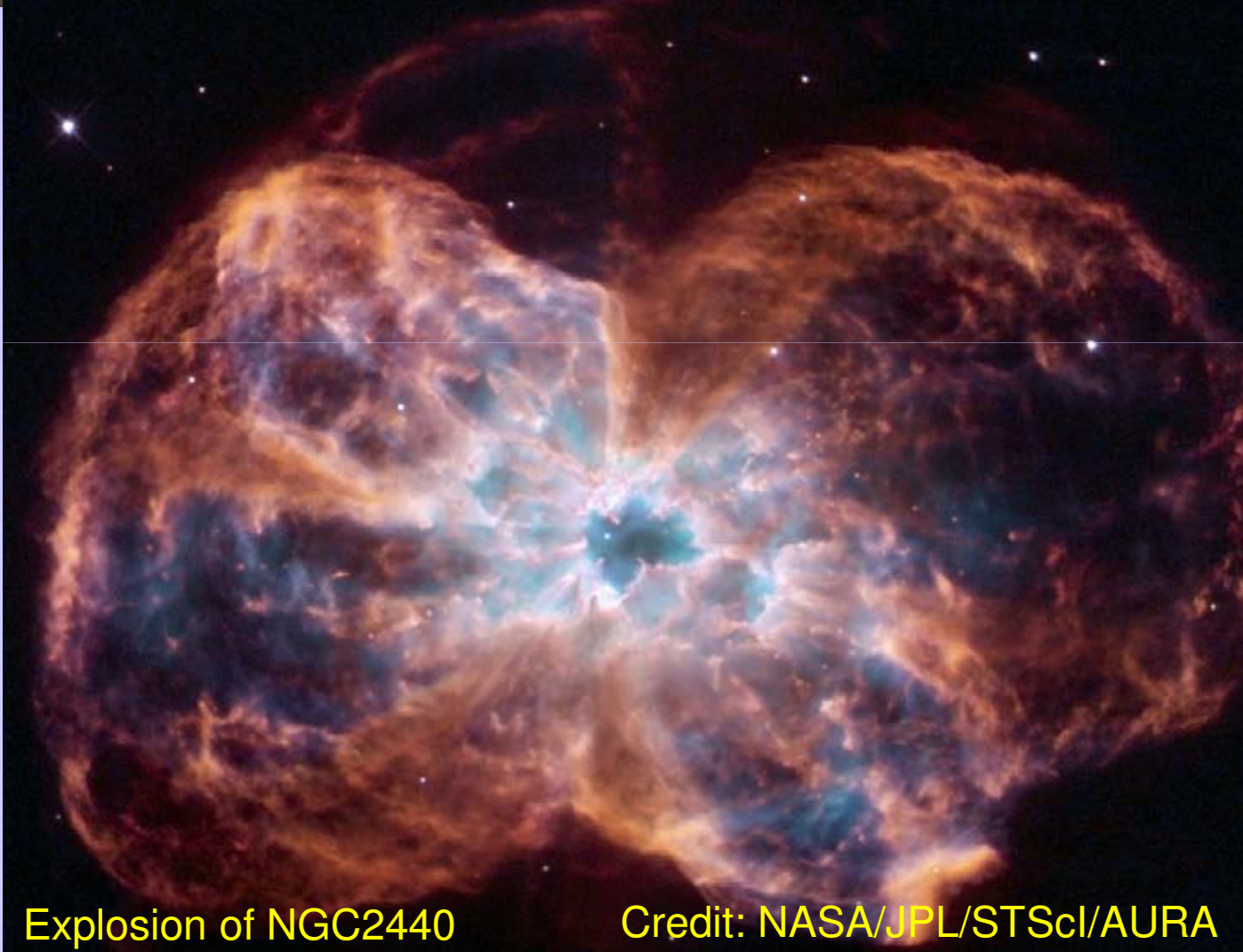
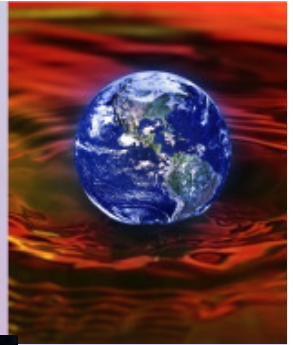
Credit:  
NASA/STSI





# the electric bridge

Galaxies



Explosion of NGC2440

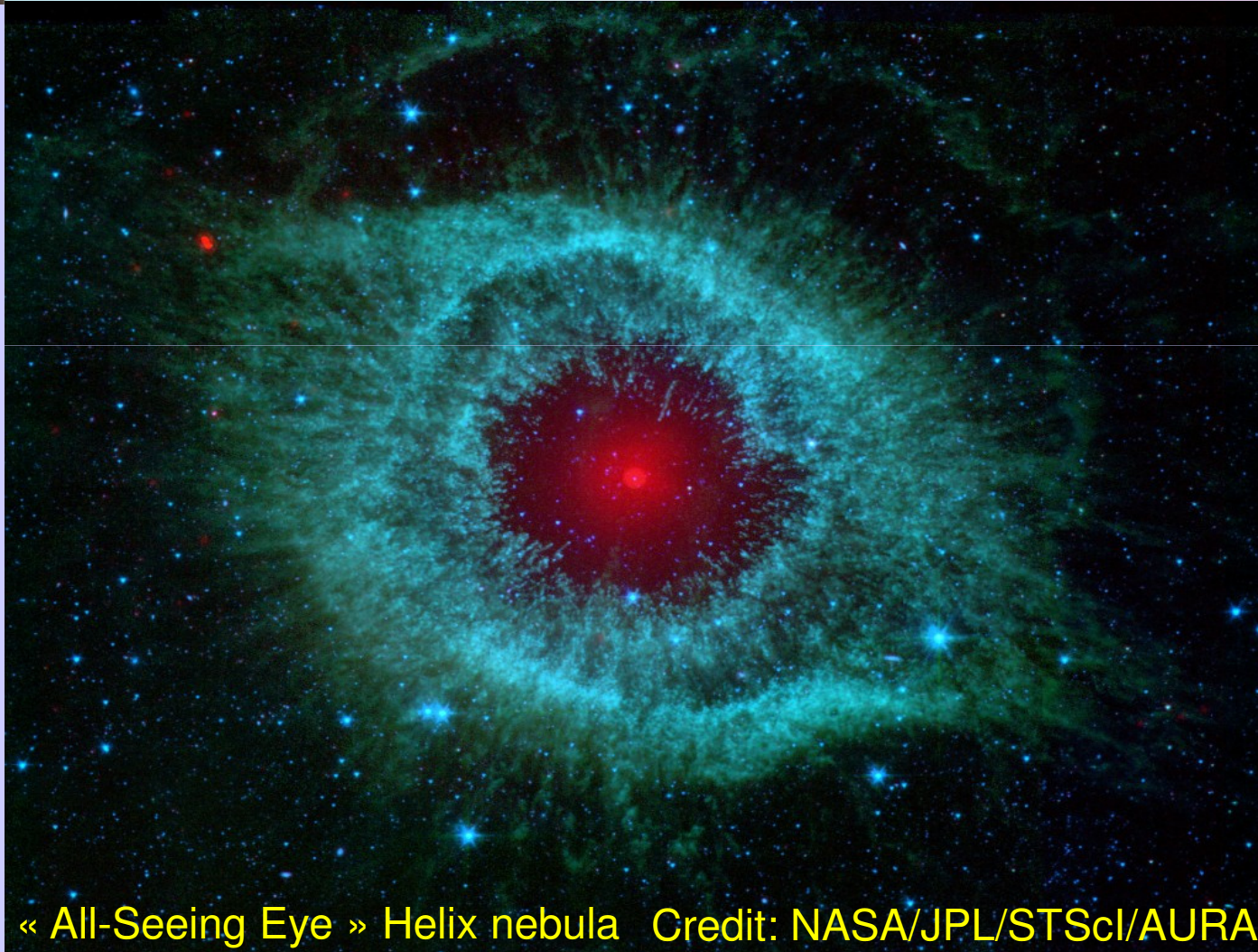
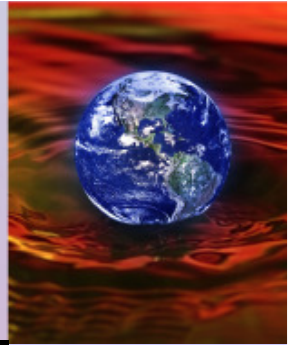
Credit: NASA/JPL/STScI/AURA





# the electric bridge

Galaxies



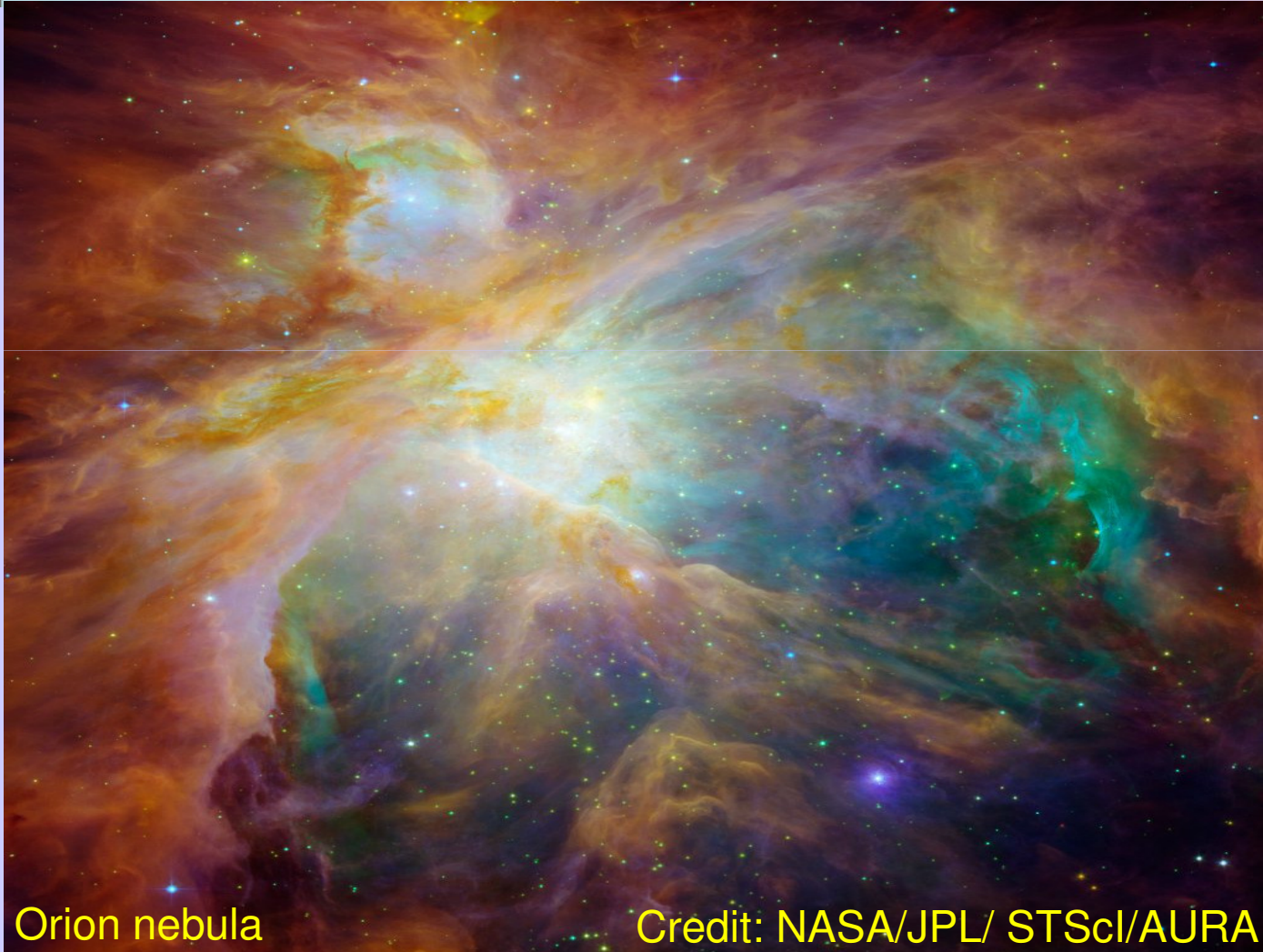
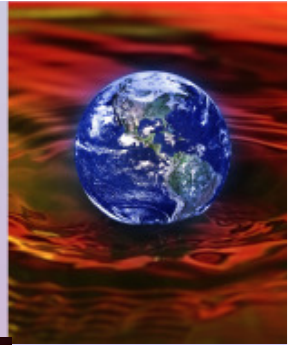
« All-Seeing Eye » Helix nebula Credit: NASA/JPL/STScI/AURA





# the electric bridge

Galaxies



Orion nebula

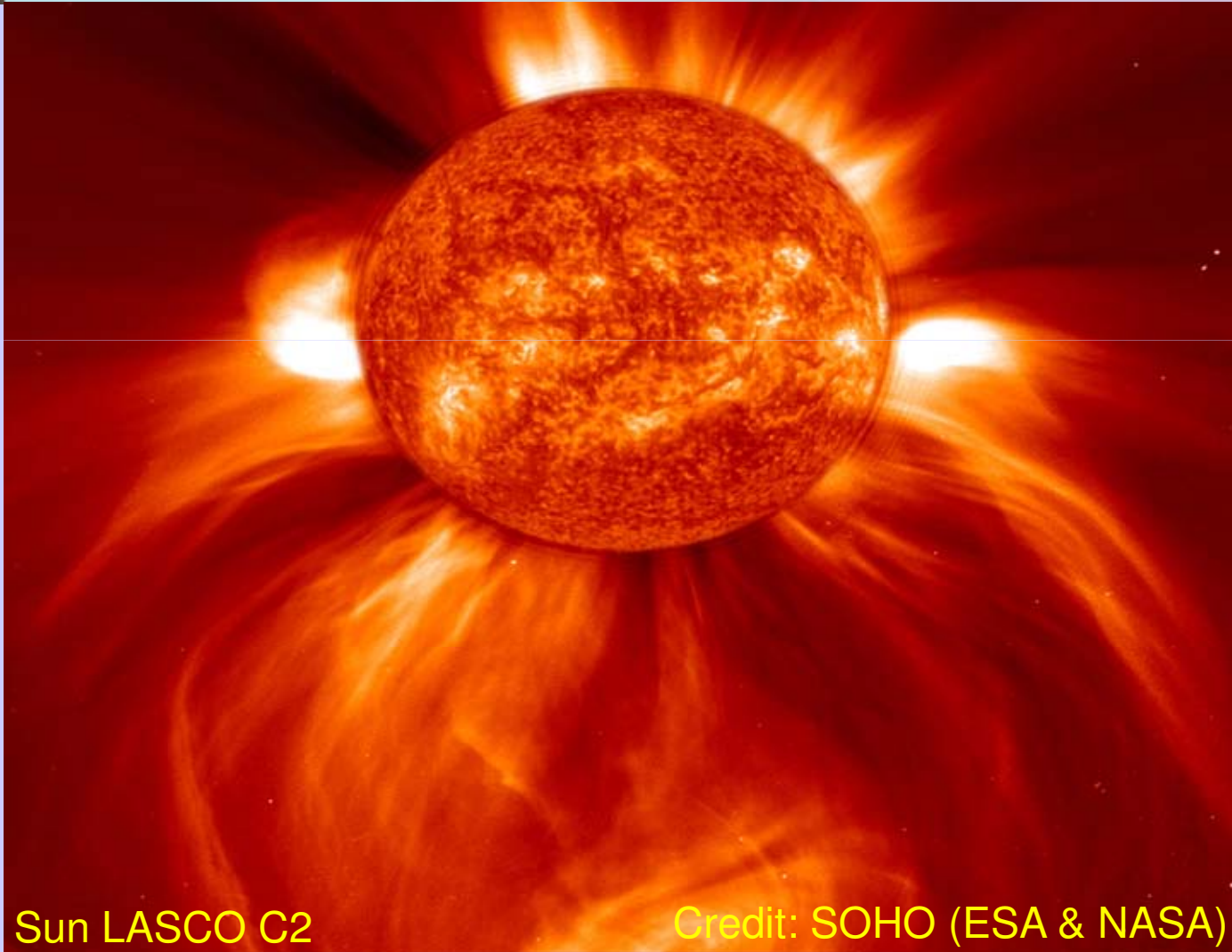
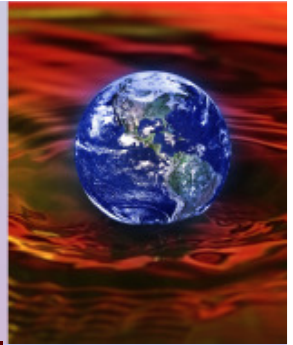
Credit: NASA/JPL/ STScI/AURA





# the electric bridge

The Sun



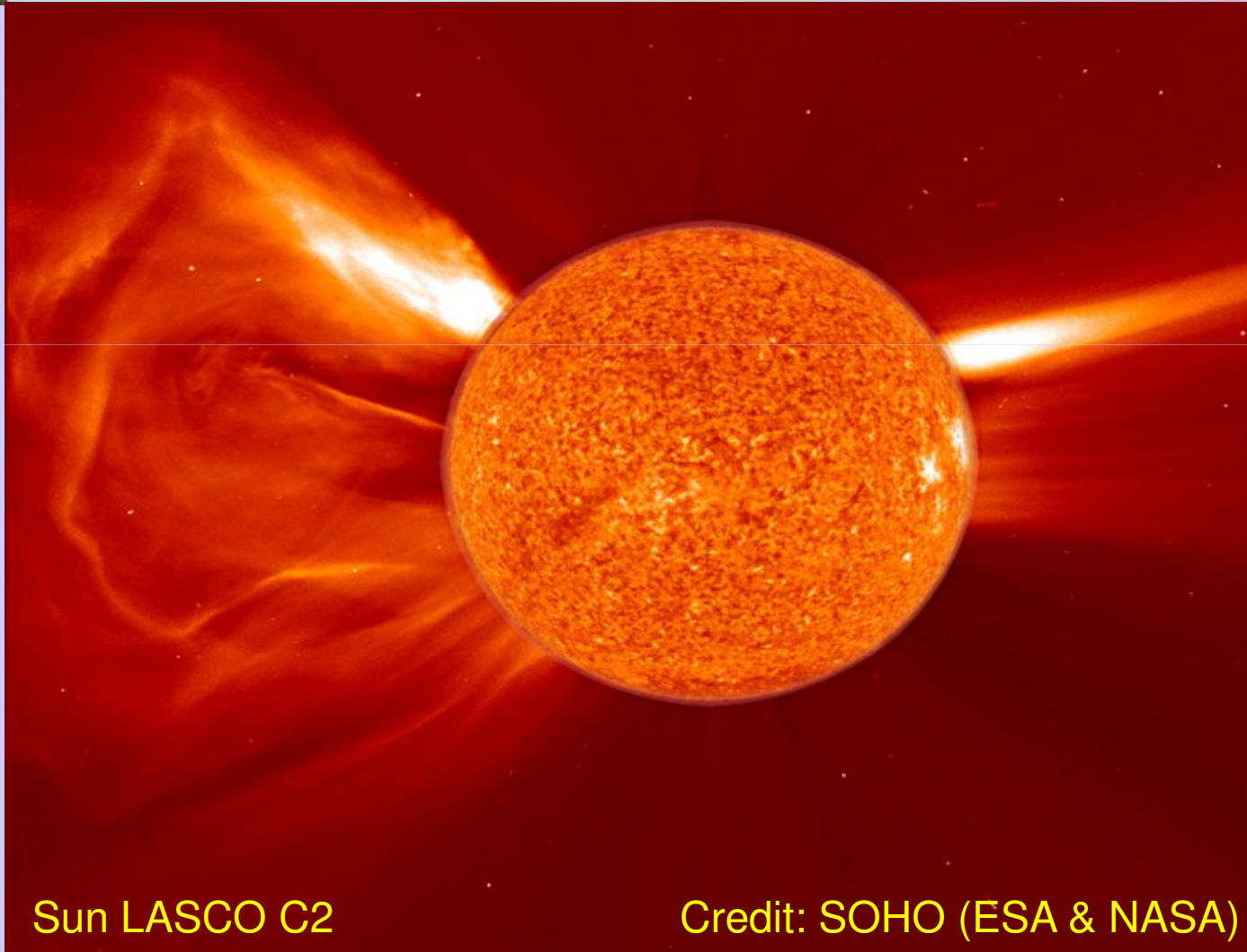
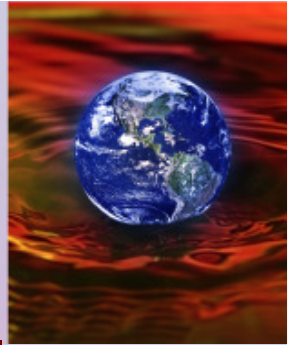
Sun LASCO C2

Credit: SOHO (ESA & NASA)



# the electric bridge

The Sun



Sun LASCO C2

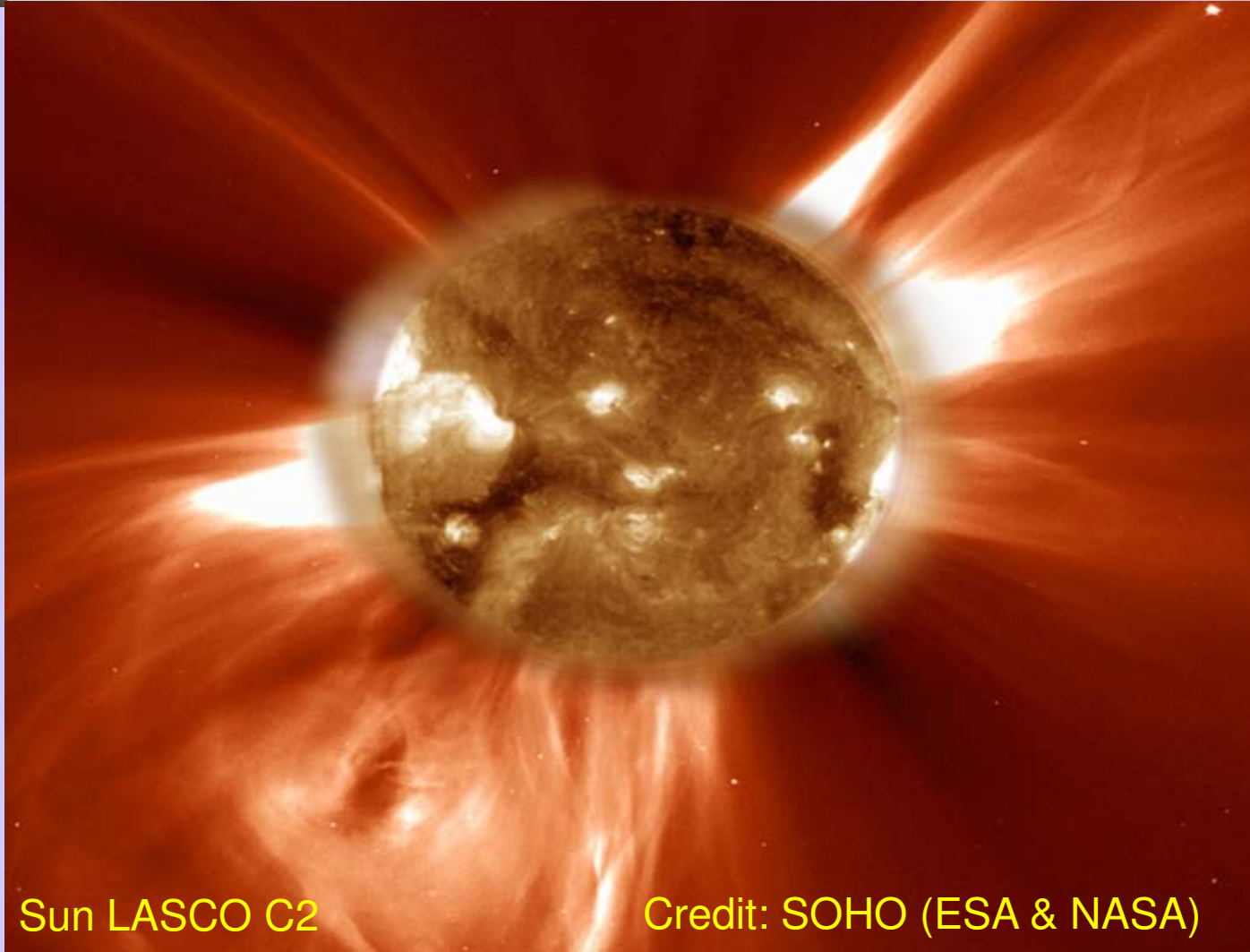
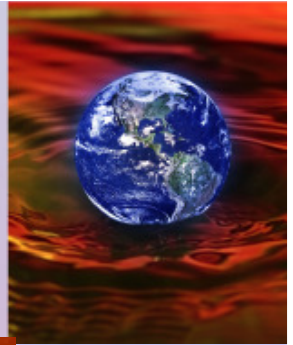
Credit: SOHO (ESA & NASA)





# the electric bridge

The Sun



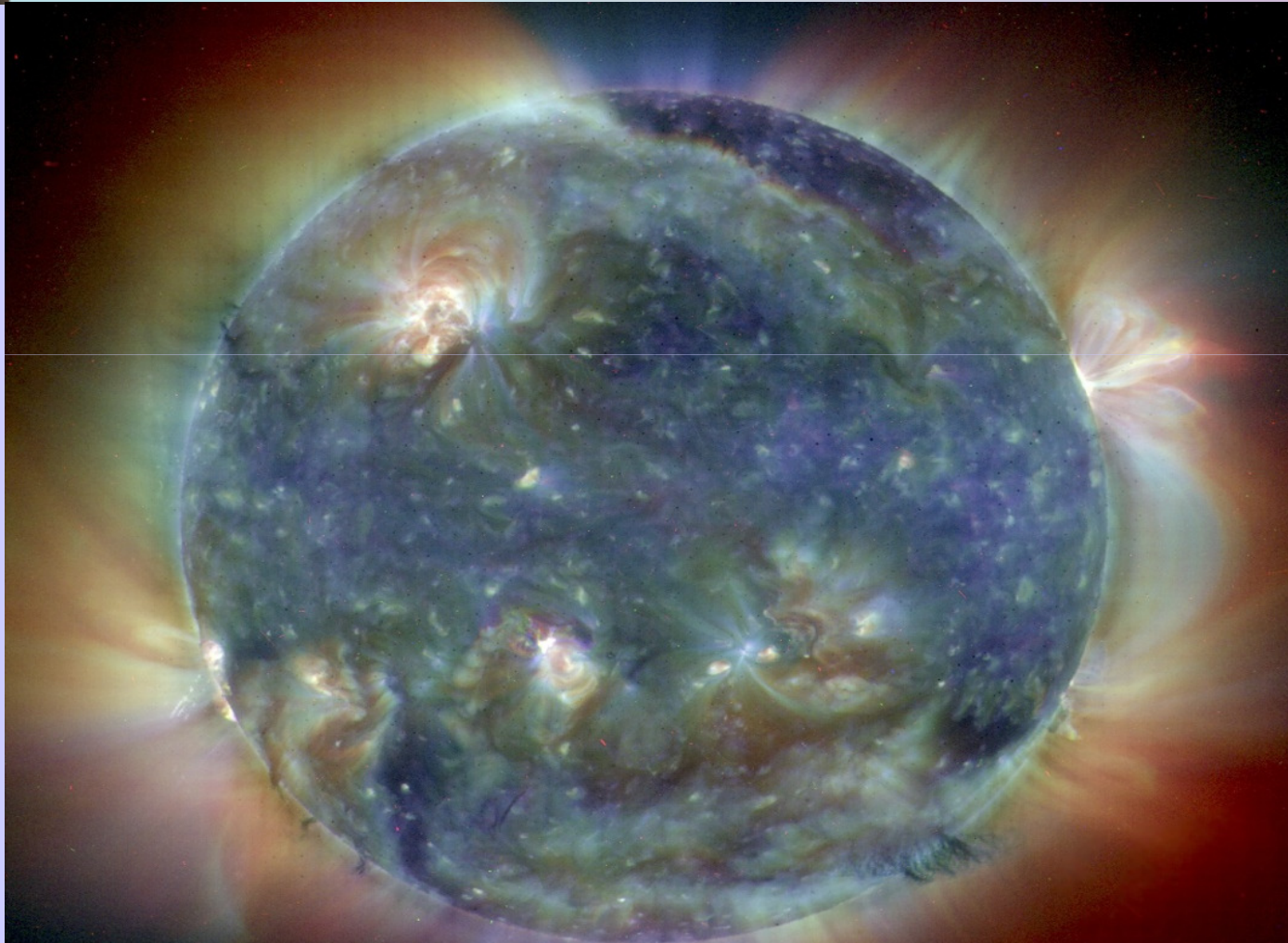
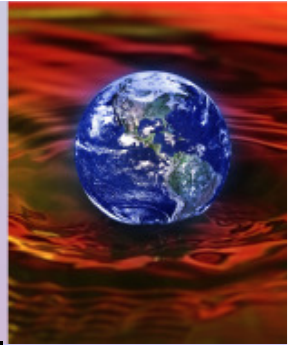
Sun LASCO C2

Credit: SOHO (ESA & NASA)



# the electric bridge

The Sun



Sun at different wavelengths

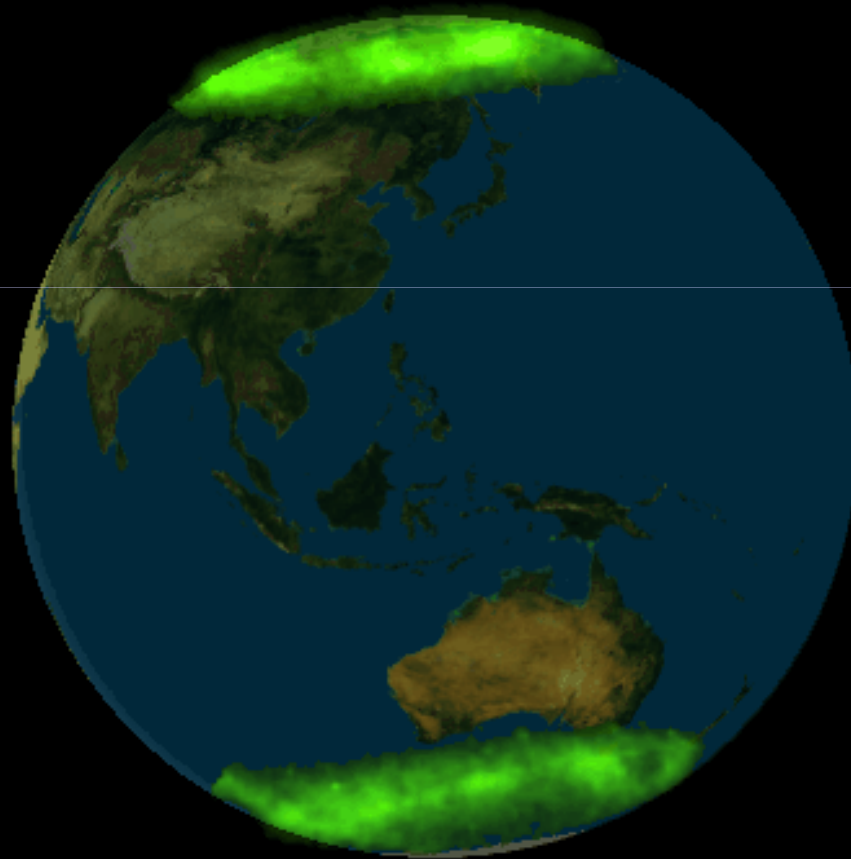
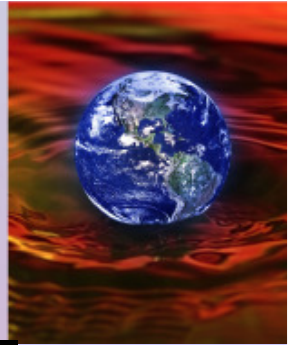
Credit: SA./NASA/SOHO





# the electric bridge

Planet Earth



North & South Aurora

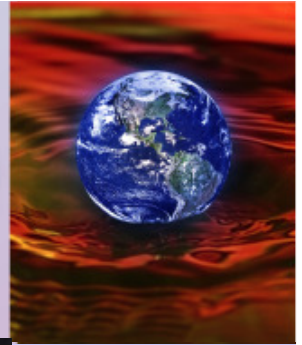
Credit: NASA





# the electric bridge

The Earth



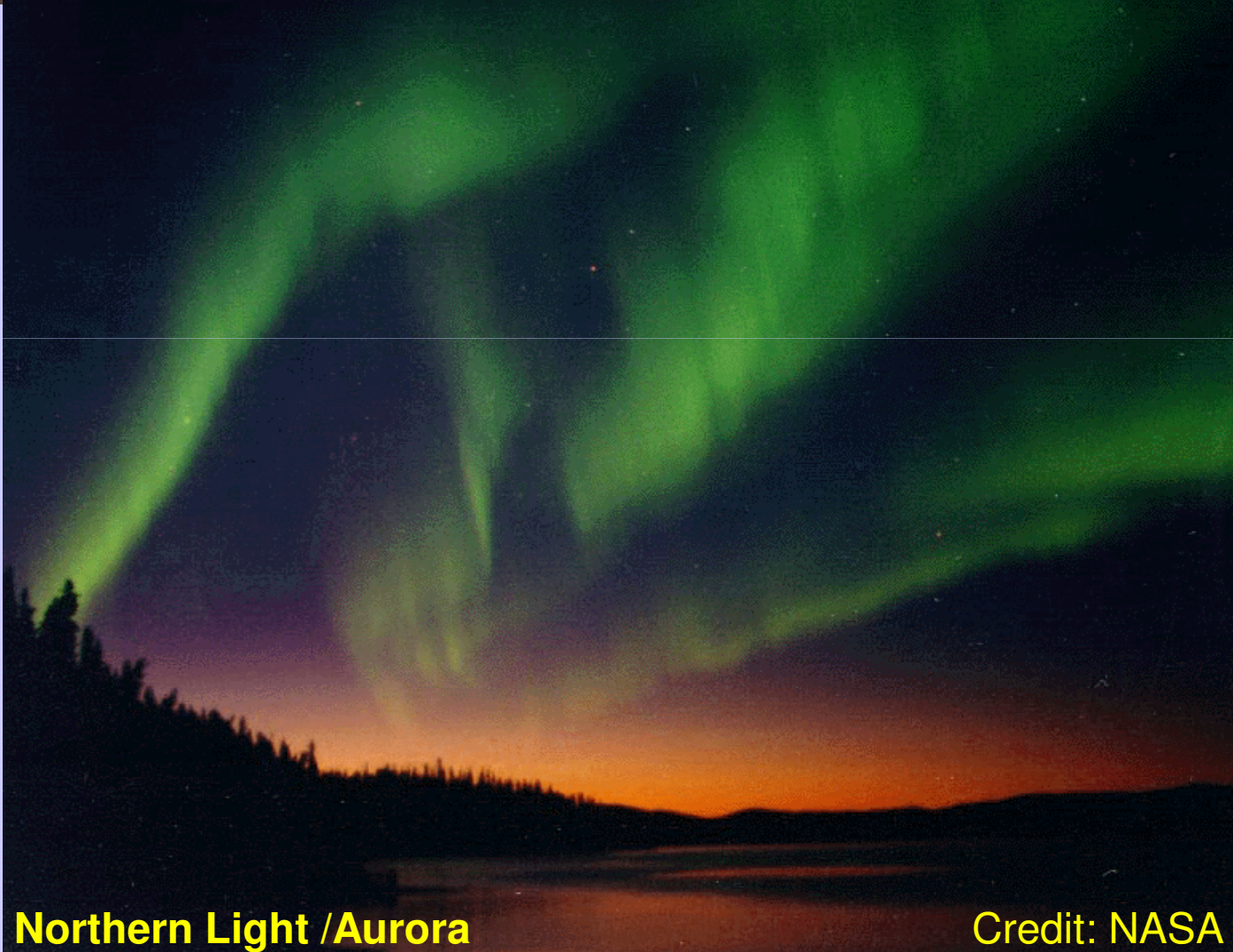
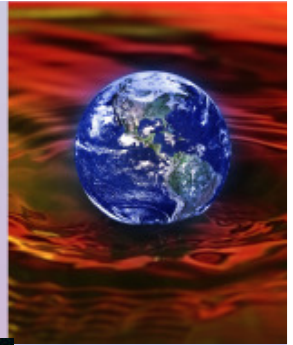
Northern Light /Aurora

Credit: NASA



# the electric bridge

The Earth



**Northern Light /Aurora**

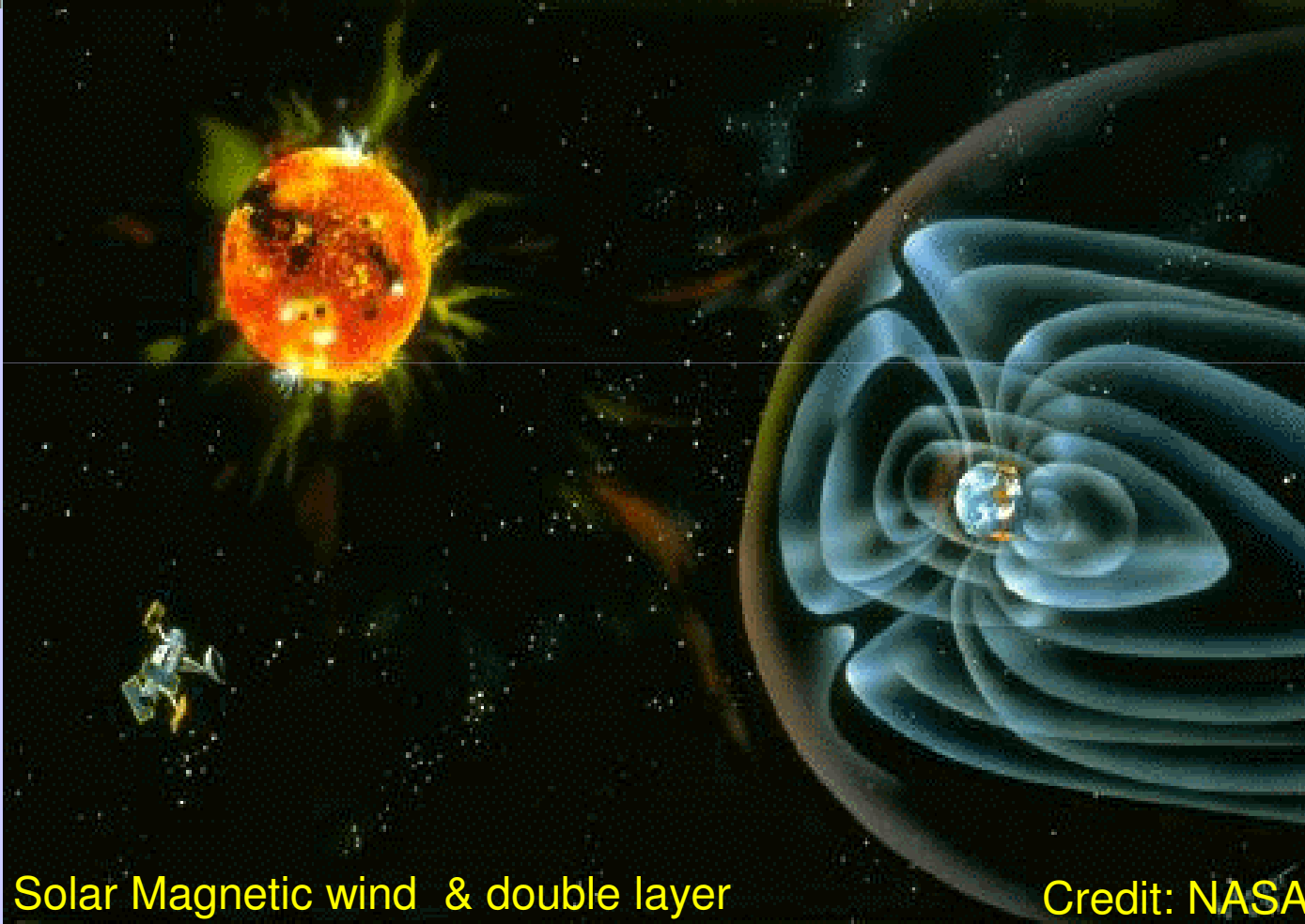
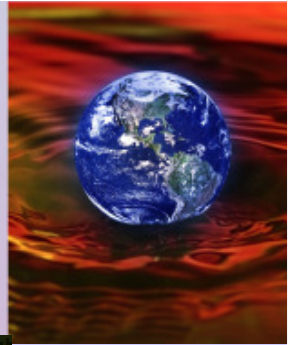
**Credit: NASA**





# the electric bridge

Planet Earth



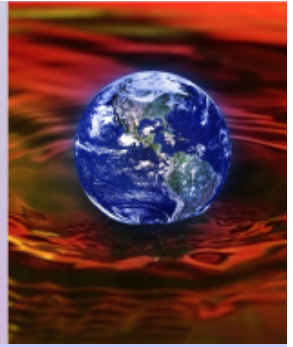
Solar Magnetic wind & double layer

Credit: NASA



# the electric bridge

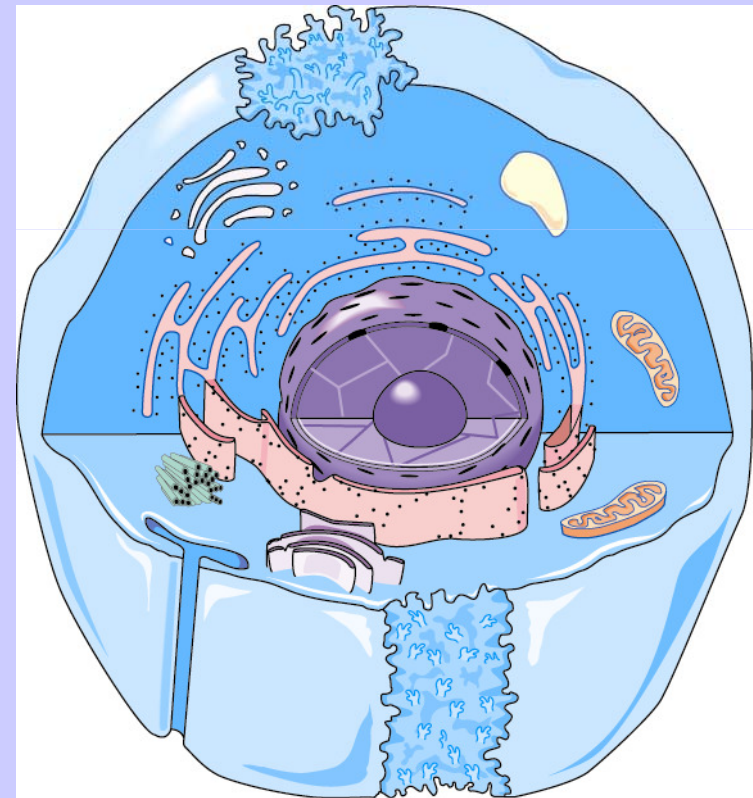
## Cells



We are used to think of the cell as:

- ❖ Nucleus
- ❖ Cytoplasm
- ❖ Membrane
- ❖ Wall

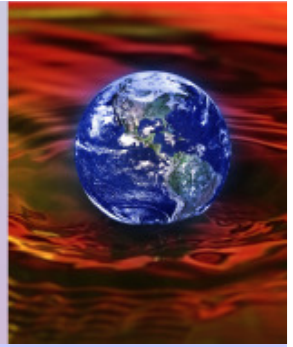
where the nucleus contains the chromosomes which are composed largely of DNA. Because DNA is thought to be the determining factor, we also believe the nucleus to be the 'brain' of the cell.



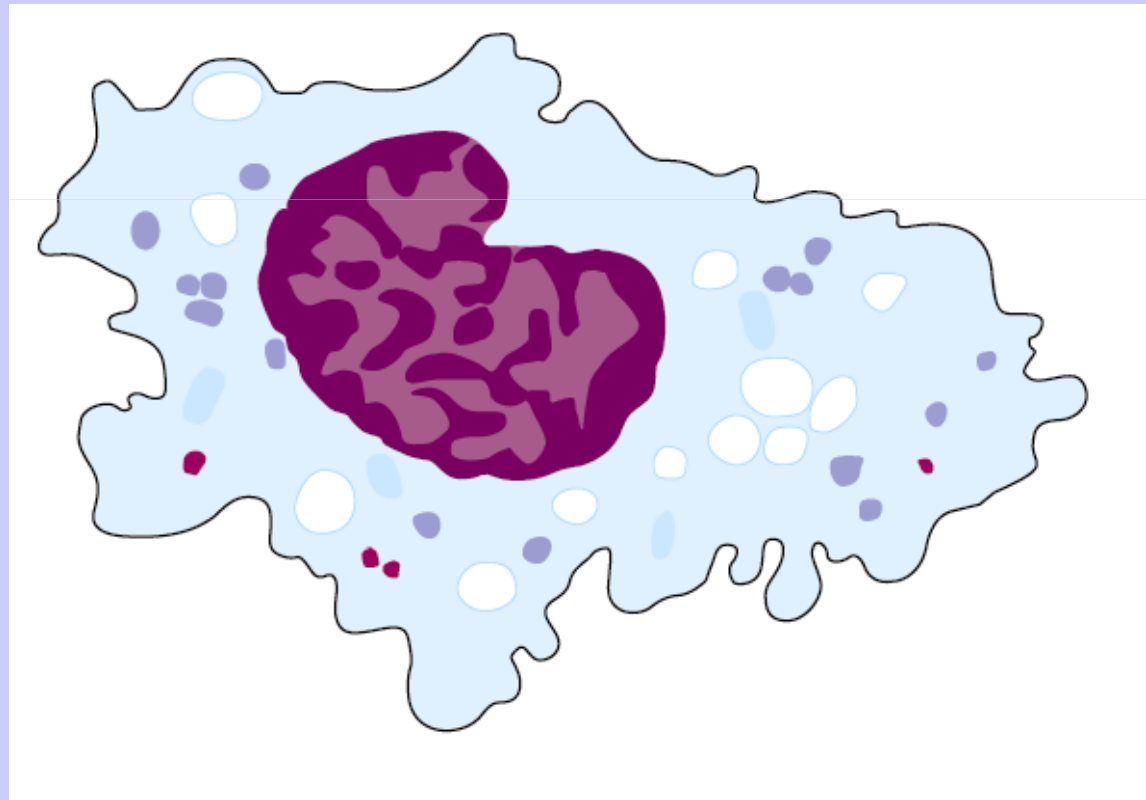


# the electric bridge

## Cells



**A simplified cross section of a cell, with nucleus, cytoplasm and membrane.**

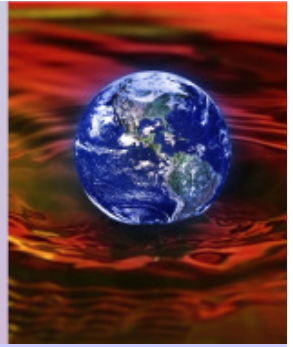




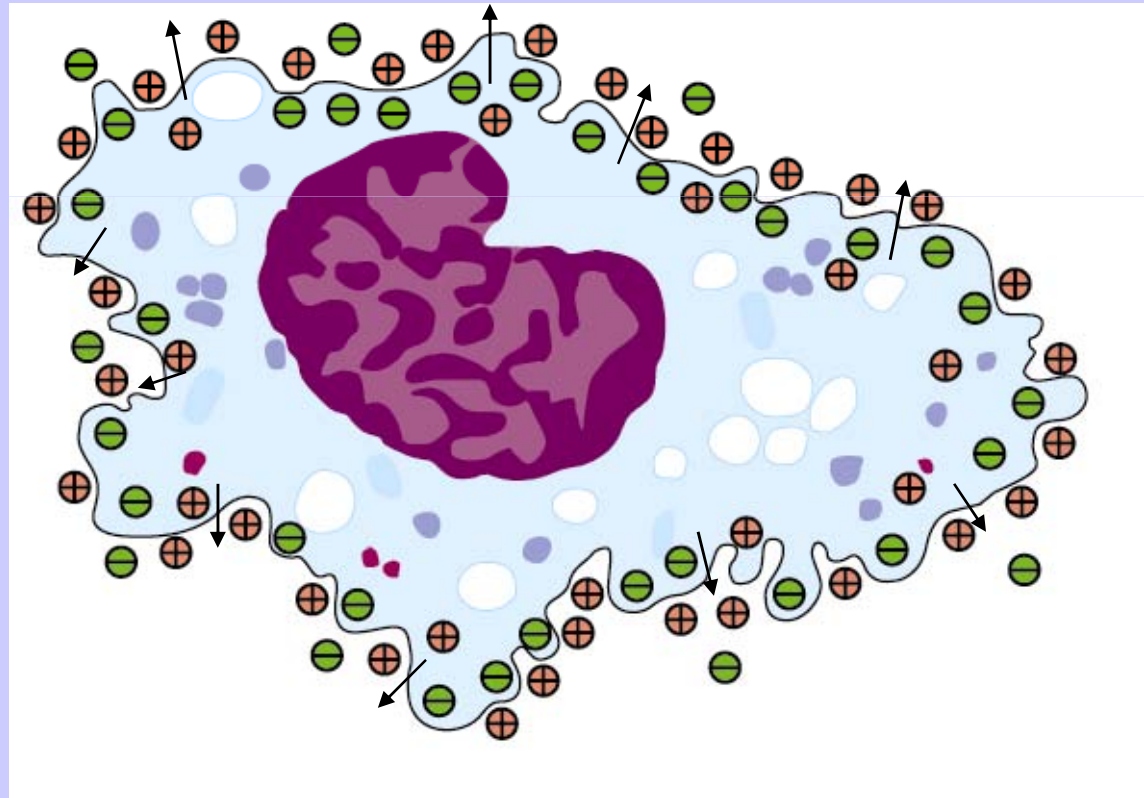


# the electric bridge

## Cells



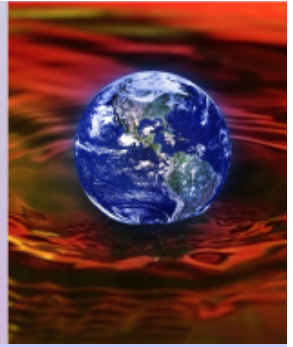
Through the cell membrane positively charged particles are mechanically, actively transported to the outside, whereas negatively charged particles stay on the inside of the membrane. Hence an electric potential.



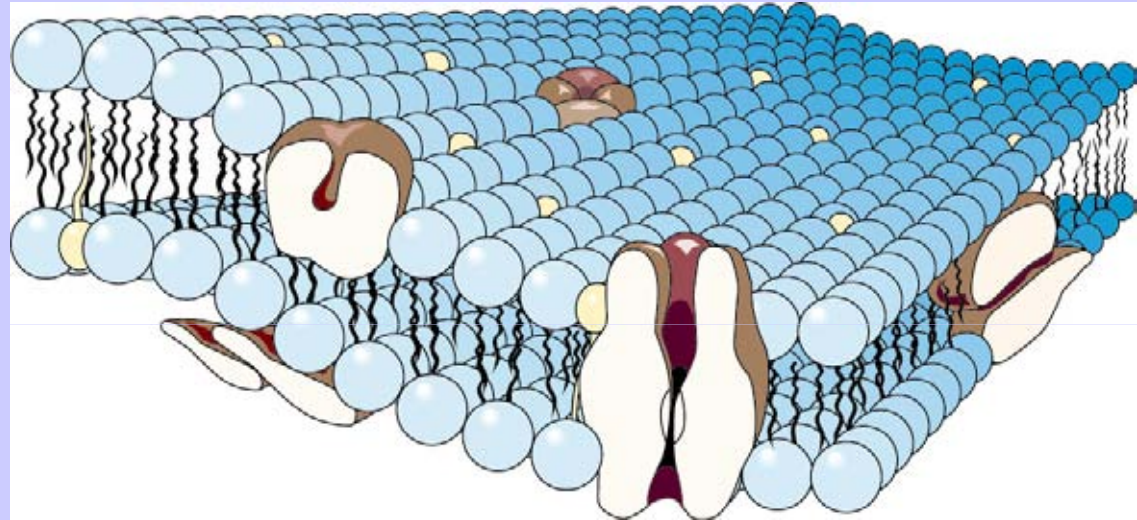


# the electric bridge

## Cells



The cell membrane contains special cells, called receptors which can selectively respond to other cells, called effectors, in the environment, thus telling the DNA how to behave.



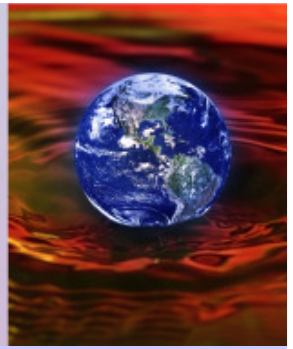
Each second for each cell membrane there are approximately 10,000 biochemical reactions.

The study of these phenomena is called “*epigenetics*.”



# the electric bridge

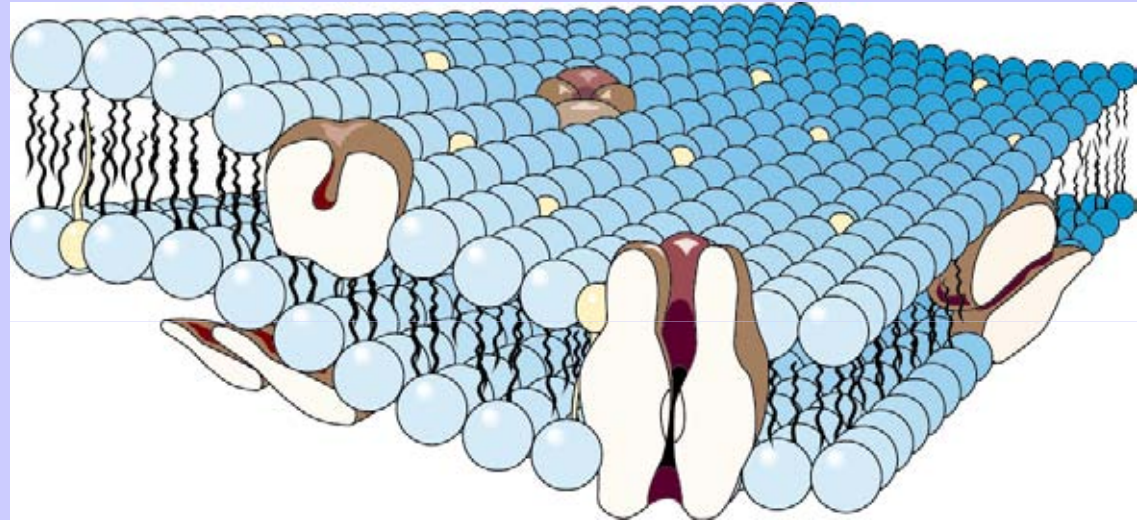
## Cells



**The cell membrane plays a much more important role:**

**It is the interface with the environment.**

**This environment determines how a gene**



**and its composing DNA will behave.**

**And not the other way around!**

**If we want to compare the nucleus with the “brain” of the cell, we can compare the membrane with the “soul” of the cell.**

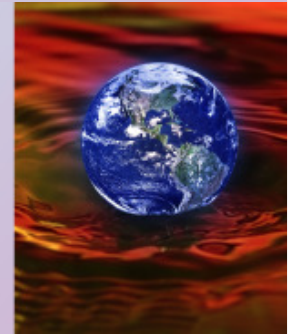
**This comes close to the morphogenetic fields of Rupert Sheldrake.**



# **the electric bridge**



## **between 2 worlds**



**There are no isolated islands in an electric universe. (D. Talbott & W. Thornhill)**

**... This will be released in fuller measure during the Aquarian age, through the agency of the seventh ray.**

**One of its earliest effects will be the increase of the understanding of brotherhood and its really scientific basis.**

**(AAB, Esoteric Psychology, I-374)**

**When a human crisis and a hierarchical crisis coincide,  
an hour of opportunity emerges.**

**Let the group respond.**