

# ECOLOGY AND ECOLOGIST MOVEMENT IN THE DISPUTED QUESTION ON EARTH'S GLOBAL HEATING



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## Introduction

Now days there is a political dispute, using *ecological* arguments, between *Ecologist Movement* and their *opponents* concerning the fight against Earth' Global Heating. *Opponents* claim Global Heating's cause to be of cosmic origin and thus any fight against it is nonsense.

**Ecology** = "domain of knowledge concerning Nature's economy – investigating all relations between animals and the inorganic or organic medium they are living in" (Huxley). Men aren't involved.

**Ecologist** = partisan of applying Ecology knowledge to Culture development. (Protection of Nature).

Out of these two terms two adjectives derivate: **ecologic** ( result of Ecology) and **ecologist** (trait induced by the Ecologist Movement). Occasionally **ecologic** is used (erroneously) instead of **ecologist**, producing complications to the dispute.

## On Ecology

In present Ecology acts as a fundamental systemic science aiming to discover knowledge useful to human kind sustainability.

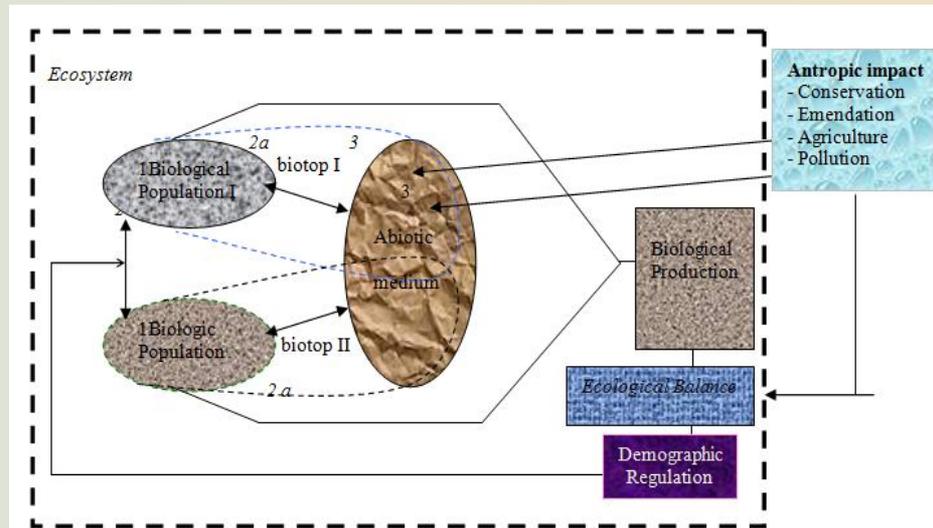
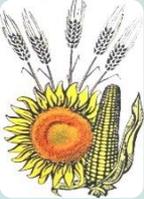


Fig.1. Ecosystem

Ecosystems work controlled by their own laws which can't be changed by human creativity.



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## On Ecology

Out off *Ecosystems'* activity *biological production* (energy, organic substance, beings) result – see Fig 2 and Fig. 3.

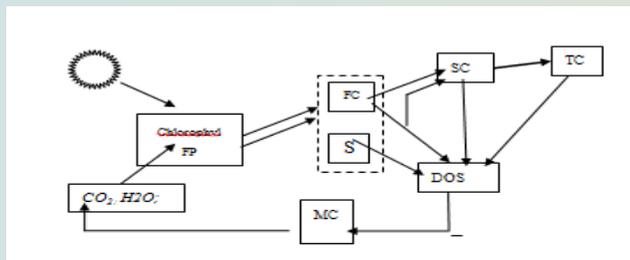


Fig.2 Primary Trophic Net

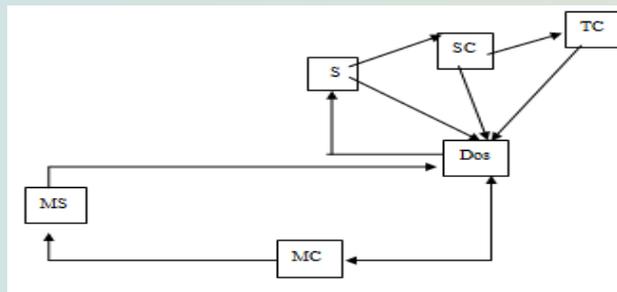


Fig.3 Secondary Trophic Net

The main quantitative laws of biological production are: a) the Growth Factor Law (Mitscherlich) and b) the Law of Minimum (Lieblig).

## On Ecology

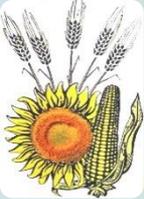
Initiations of Primary Trophic Nets start using *mineral* substances ( $CO_2$ ,  $H_2O$ , N). Resulted organisms are *plants*. The Secondary Trophic Nets initiate using *Dead Organic Substances (DOS)* synthesized by the former nets. Resulted organism are also *plants*, because they are *immobile*, as well.

Both Nets finish with the mineralization of DOS by aerobic microorganisms, resulting  $CO_2$ ,  $H_2O$  and N, or  $CH_4$  if the last fermentation was anaerobic.

The Trophic Chains composing the Trophic Nets allow trophic relations of biological species to demographically regulate their suitable state for the *Ecological Balance of the Nature*.

Antropic impact is a permanent risk to *Ecosystems* Through pollution, amendments or Culture extension.

In Ecology acts a single actor the Scientific Research and it has a single target the living substance, performing metabolism, in the Nature. **Ecology** is a basic science intending **to discover** new knowledge about living beings in Nature just to be known, without any interest for transmitting them to Culture.



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## On Ecology Movement

The **Ecologist Movement** is a social, uncoordinated action intending to protect the **Ecological Balance** in the Nature against *antropic impact* induced by Culture.

*Ecologist Movement's* actors act based on knowledge offered by *Ecology*. They are many and of divers social statuses from *individual persons* and *Private Associations without patrimonial interest*, to *Political Parties* or *Public Authorities* (Ministers of Medium, of Waters or of Forests)

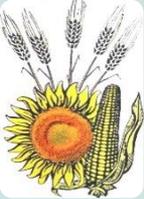
**Political parties** are the most active actors of the movement. They fight for power and goals excuse means. Par consequence of their activities in many governments a **Medium Protection Minister** is included by other parties in power.

There is a peculiar relation between **the Ecologist Movement** and **Food and Agriculture Organization (FAO) of ONU**. **FAO** being in charge with the world food security was nominated to monitor effects on Nature of Biological Diversity Convention signed in Rio de Janeiro (1992).

## On the Nature's protection

Ecologist targets concerning Nature's protection have in view to prevent:

- Global heating caused by increasing the atmosphere concentration of greenhouse effect gazes ( $\text{CO}_2$ ,  $\text{CH}_4$ , ClFC, NO) through reduction of fossil fuel(coals, petroleum, gazes) consume ( $\text{CO}_2$ ); less anaerobic fermentation ( $\text{CH}_4$ ); using Air liquid in freezing industries (ClFC); organic amendments of soil (NO).
- Land desertification by pollution on dead organic substances (DOS). Means to act: *sanitary trashholds* and *slurry ramps*.
- Soon discover of ecologic misbalance in Nature *by monitoring animal biodiversity*.
- Temperate the demographic increase of humankind to reduce the agriculture pressure for land using social measures as *birth control* and *family planning*.



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## *On the Ecologists' skidding*

Ecologist concept is antropic thus it might commit mistakes.

Examples:

-National Geographic , a precious journal, published some years ago, a referee claiming high milk production in cattle induces greater emission of CH<sub>4</sub> and contributes to the Global Heating of Earth.

- The phenomenon being due to feed cows on diets containing much concentrate feedstuffs. Soon after a group of 6 specialists in animal nutrition published a paper informing that in their experiments on fattening young calves for baby beef, diets containing 90% concentrate feed doesn't increased CH<sub>4</sub> emission.

- One Ecologist from New Zealand promised immunization cattle against bacteria performing rumen anaerobic fermentation. Seem to be a joke or a *fake news*. Immunization is an inner body process, since rumen is an external cavity of the body.

## *Concluding*

- ECOLOGY is the science of Nature's economy without any antropic involvement. Its actors are BIOLOGISTS.
- ECOLOGIST MOVEMENT is the hope of ECONOMISTS to get through Nature's protection a human social development leading to the sustainability of the humankind species.
- GLOBAL HEATING OF TERRA to be caused by cosmic phenomenon is almost certain. Arguments in these respect (Milankovitch's Theory of Clime) are the oval orbit of Earth's rotation around Sun (giving a different distance of 5 millions km between perigee and apogee positions of the planet), the change ( $21.8^{\circ} \leftrightarrow 24.4^{\circ}$ ) in the incidence angle of the planet axis to the orbit plan of planet rotation and the precession caused larger oceanic surface in the South hemisphere of the planet. They produce cycles of 100,000 – 413,000 years, in the orbit case, 41,000 years in case of axis angle and 19,000 – 24,000 years in case of hemisphere precession. They cased variation of Global Temperature before Agriculture was invented.
- Nevertheless NATURE PROTECTION mustn't be leaved.

**NATURE GIVES THE SOURCE FOR CULTURE.**