



## **Propagation of life beyond the Earth**

O. Potashko

Ukrainian Astrobiology Association, Kiev, Ukraine (potashko@mail.ru)

It has been postulated that necessary condition for existence of life on a heavenly body is presence of an atmosphere.

Arising life we may find on a heavenly body with forming atmosphere, disappearing life - on an object with vanishing atmosphere.

It appears from this - Venus, Mars, Jupiter, Saturn, Titan[1], Uranium have to be habitable.

Io may serve as a planet with arising life, Moon and Mercury - as planets with a disappearing life.

If a planet is carrier of bio-life - period of flourishing life is relatively small[2].

So, usually we would see habitable planet having primitive forms of life.

Normal state of a planet is ice age as we watch on Titan and Mars.

Ice age may follow by overheating period - Venus case.

This principle we may apply to search life on planets beyond Solar System.

1. Life On Titan: Theorem Of Existence O.Potashko

<http://www.cosis.net/abstracts/COSPAR04/03982/COSPAR04-A-03982.pdf>

2. Planetary cycles of life O.Potashko in: 3-d Astrobiology Science

Conference Astrobiology, NASA, Mar.28 to Apr. 1, 2004, Int. Journal of Astrobiology, Suppl., 2004, <http://www.astrobio.net/news/article894.html>