



Interview with Valeriy V Pimenov department of ROSCOSMOS (Russian NASA)



ROSCOSMOS

Which will be the next missions to space of Roscosmos ?

Yesterday (23 March 2007) was decided, that the 15-th crew to International Space Station (ISS) will be:

Feodor Yurchikhin – the commander of ISS-15,

Oleg Kotov – the engineer of ISS-15,

Charls Simony – the “guest-member” of expedition.

Start of SOUZ-10 to the ISS is planned on 7 April 2007.

You can see photos of Simony training at:

<http://www.roscosmos.ru/NewsDoSele.asp?NEWSID=2115>

If they are evaluating the possibility of life of human beings on another planet?

The same day (23 March 2007) ROSCOSMOS-top-management discussed with the head of German-Space-Agency some future plans about space-observatory (on-orbit telescope) “Spectrum-XR” (X-Ray). It will be “exclusively ours” (Russian with some German equipment) device. Americans is NOT participated, and the “space-platform” and launch-jet is also ours.

Science program of this space-observatory is next:

- Up to 1 million (!) of new galactic (!) will be detected.
- Up to 100 thousands of galactic-conglomerates be detected.
- Tests of “dark matter” distribution in universe will be done.

And a lot of other science experiments.

Observatory will be launched at 2011 year to the orbit of 600 km from Earth (angle 28 grad if started from Baikonur or angle 5 grad if started from Kuru). Germans supply main telescope “eROSITA” (600 kg, diameter 1.3 meter, height 2.6 meter, cost 43 million EU) be made by Trede, Caice, Siemens.

England will supply other telescope “Lobster” (also X-Ray, but on other principles, cost 25 million EU). In development of this telescope Italy is also participated.

Russia will also supply smaller XR-telescopes (“ART”).

In 2001 year Americans send to Mars the automatic station “Mars Odyssey”. It is a kind of “Mars-satellite”, which had given a lot of data about Mars.

As we have expected – “no water, and practically no oxygen in air”. And the “air” itself (mostly hydrogen and methane) – is too thin to protect against anything (lost of heat by nights, meteors, etc).

So, it is practically “no difference” – to try to live on Mars – or try to live on Moon. Or just to live on orbital-space-stations.

And, I think, it will be "the natural way of evolution" for the "living out of Earth". First we should learn how to live on space-stations without "external supply". I mean that it should be developed some "greenhouse" on orbit. Ok, possibly it will be more easy to develop such "greenhouses" on firm ground – I mean on the Moon. But it is already "unessential details" – because, as far as I know, today is NOT exists even "prototypes" of such systems. So, until such systems will be developed (in no less then 50 years) – the Mankind have to try to fight with global overheating with "local means". Simplest – by creating "conditioned environment" – up to "street survival suite". By the way, the helmet of this "anti-heat-suite" will be very convenient place to set computer-display there...

I am not sure – did I am joking or making serious propositions.

But if such conditioned helmets with computers will become "fashionable" – I am surely will buy one...

One of the alternative means of fighting the excessive heat from Sun – spread over the Earth (from the satellites) some "powder", which will "reflect-back" some part of the Sun-rays. Do you ever heard about "nuclear winter"? The same conditions (but without nuclear explosions :O) – we can reach by spreading those "powder". There is several detailed-enough projects of this kind – but of course none of them was "taken seriously" yet – meaning some "parliament hearing" and so on.

Are you ready to "present" this project to your parliament?

And I, from my side, am ready to connect you with one of our "inventors" in this field... (I am not joking, possibly).

Here, in Russian, this project will not "have success" – because our main problem is "too cold winter" or too much "polar regions", etc.



Considering all these catastrophic predicting on our planet of climate change which will occur in the next 80 years?

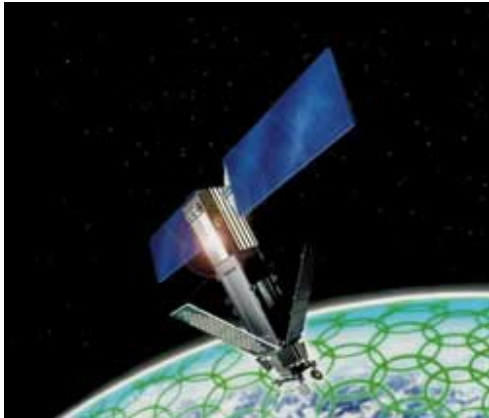


About some other science programs in space. ROSCOSMOS and ESA (European Space Agency) reached agreement about common "nearest future" space-projects. It will be:

- Common use and exchange of data from "Envisat" (ESA) and "Resurs-DK" (Russian) – to help in Earth-monitoring.
- Developing common standards of data from orbital systems "Galileo" (ESA) and "Glonass" (RSA) – having in mind to reach "unification" of both systems.
- Our (RSA) science-participation in ESA-mission to Mercury (we will supply some science equipment). And our participation in ESA program "Ecsomars".
- It was stated that "we reached agreement with ESA about coordination in developing the space flight of next generation" (no other comments was given).

4) A lot of science-researches was done (and will be done) by RSA (ROSCOSMOS) on-board of ISS (International Space Station). Nearest-years researches includes 317 (!) science-programs in a fields:

- developing of new materials;



- Geo-physics (of Earth) researches (from orbit);
- medico-biological researches;
- monitoring of ecology;
- support of automated "expeditions" to other planets;
- astronomy;
- cosmic-rays analysis;
- educational programs.

For example, 1 Feb 2007 one of ours X-Ray-detector ("Conus-Wind") has detected VERY STRONG burst of gamma-rays from the nearest to us galactic "Andromeda" (2 million light-years). Proposedly, it was result of "activity" of very strong "neutron star" with enormously strong magnetic field ($\sim 10^{15}$ Gauss). Only one of such "burst" give the energy 10 times greater then ALL stars of our galaxy (in 1 second). Of course we do not have detailed explanation of the reasons of such "activity".

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