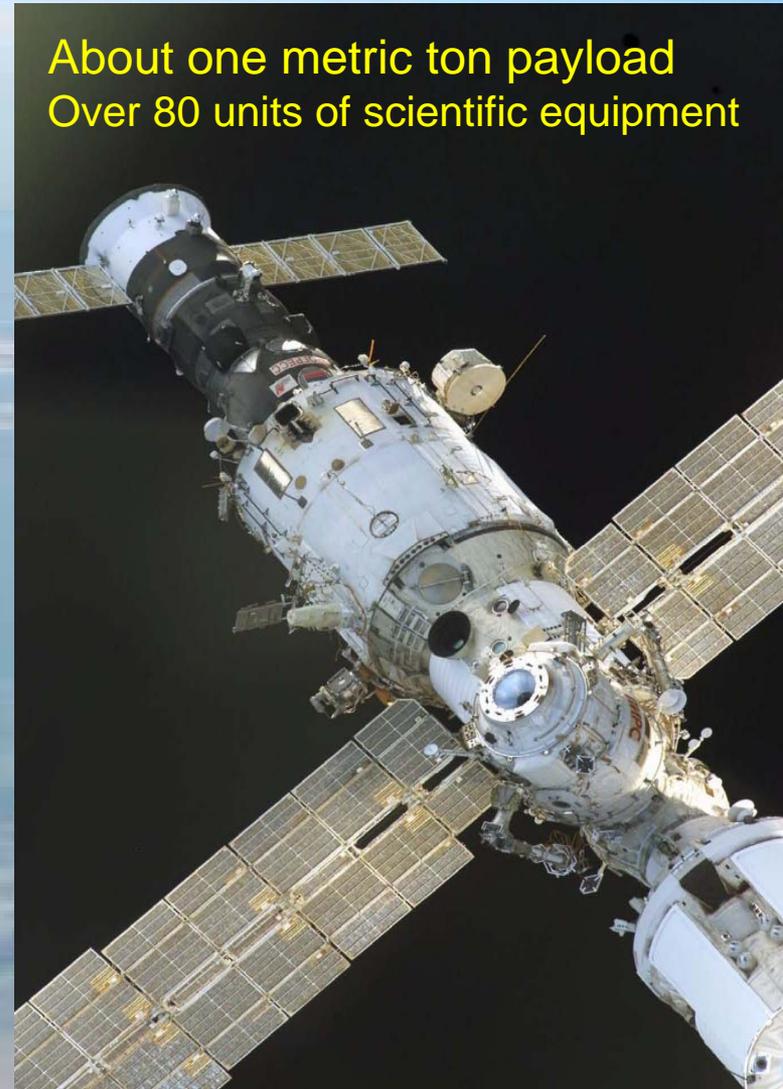


ISS AS A TEST-BED FOR SCIENTIFIC IDEAS AND ADVANCED TECHNOLOGIES

ISS facilitates development of a near-earth infrastructure, suggesting broad-band of utilization options, including:

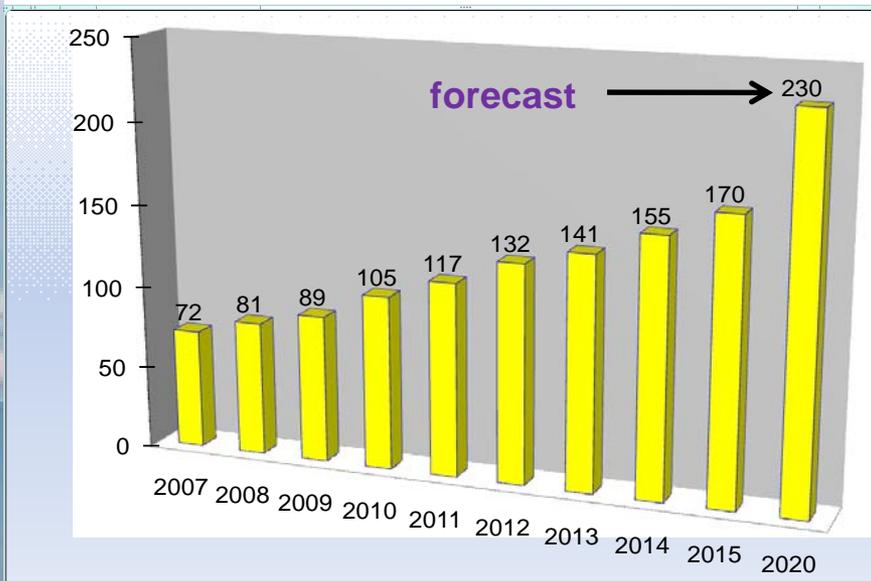
- Gaining experience of human continuous life and work in space in the multinational community
- Testing and processing living organisms and materials under space conditions for future production of unique samples with unattainable for ground manufacturing properties
- Realization of research in various areas of science and engineering sensitive to the specific conditions of the ISS (variable microgravity, space vacuum and radiation, extraordinary big spatial and power opportunities at LEO etc)
- Elaboration and testing of technologies for future exploration projects
- Routine work by orders of state and private customers.

About one metric ton payload
Over 80 units of scientific equipment



ISS AS A TEST-BED FOR SCIENTIFIC IDEAS AND ADVANCED TECHNOLOGIES

Long-Term Program of Experiments on the ISS RS



Research areas

1. Physical and chemical processes and materials under microgravity conditions
2. Geophysics and near-earth space research
3. Human life science and biology
4. Earth remote sensing
5. Solar system investigation
6. Space biotechnology
7. Technical investigation and experiments
8. Astrophysics and fundamental physical problems
9. Investigation of physical conditions on the ISS orbit
10. Education and popularization of space research activity

Hundreds of scientists and engineers are involved

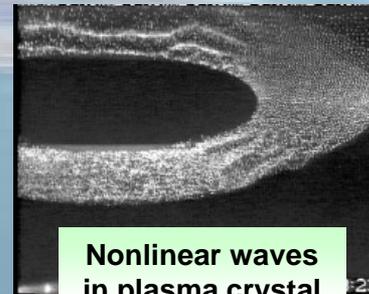


Weightless adaptation

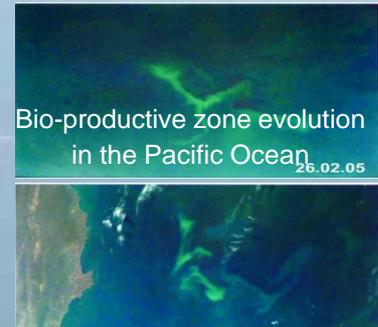


Plant biology

Space crops



Nonlinear waves in plasma crystal



Bio-productive zone evolution in the Pacific Ocean

Study of ocean bioproductivity and space fish finding



High quality protein crystals of insulin



Water and soil pollution cleaning

And much more investigations...