

SPACE COMMUNICATIONS AND NAVIGATION SYMPOSIUM (B2)
Advanced Systems (1)

Author: Mr. Nikolay Sevastiyarov
Gazprom Space Systems, Russian Federation, gomenjuk@gascom.ru

Dr. Yuri Nosenko
Research Institute of Precision Instruments, Russian Federation, ums@rosaviakosmos.ru
Mr. Nikolay Testoyedov
JSC “Academician M.F. Reshetnev “Information Satellite Systems“, Russian Federation, (*email is not specified*)
Mr. Anatoly Shilov
Roscosmos, Russian Federation, (*email is not specified*)

SPACE INDUSTRY INFORMATION SYSTEMS IN THE INTERESTS OF RUSSIA’S ARCTIC
REGION DEVELOPMENT

Abstract

The presentation shows the results of a preliminary configuration of the ERS space system, using radar spacecraft and a space system of mobile broadband communication with spacecraft in the high-elliptic orbit. One of the most important fields in implementing the strategic goals and tasks of the Russian Federation in the Arctic is creating an up-to-date infrastructure for information support of economic activities. The priorities are as follows: integrated information support of the tasks of developing oil and gas deposits in the Arctic shelf and on the Northern territories of Russia, provision of a reliable functioning of the Northern Sea Route, management of air traffic, major pipeline transport by providing 24-hour services:

- all-weather radar imaging for obtaining data on ice situation and emergencies in the areas of oil and gas production and along the lines of the Northern Sea Route;
- broadband mobile communication and broadcasting for users located on the Northern territories and in the middle zone of Russia.