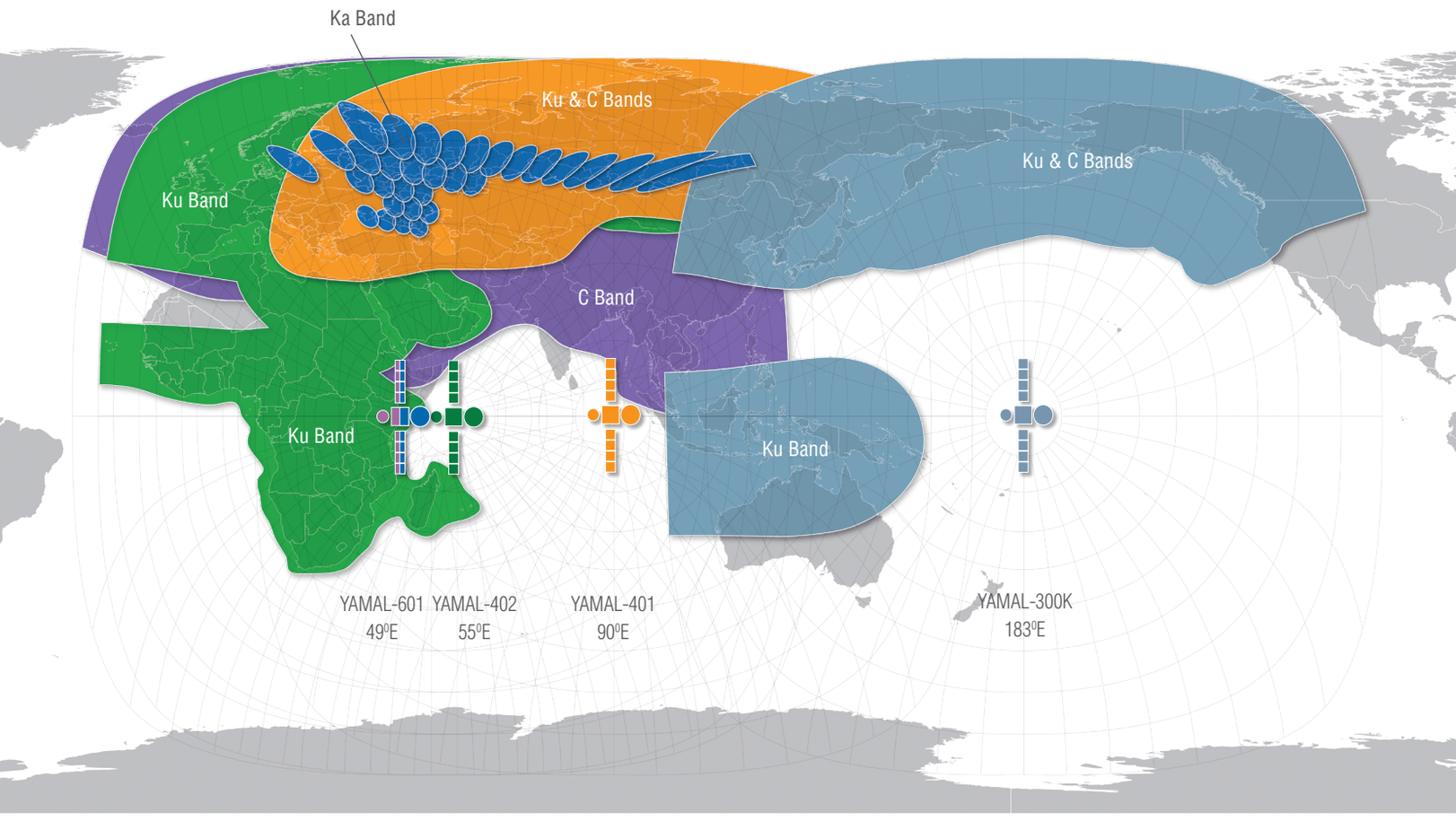
GAZPROM SPACE SYSTEMS

SPACE INFRASTRUCTURE

Gazprom Space Systems' space infrastructure consists of Yamal satellites orbital constellation, Mission Control Center and TT&C facilities.

The space fleet of the company consists of Yamal-601, Yamal-300K, Yamal-401 and Yamal-402 satellites.



ORBITAL CONSTELLATION AND
COVERAGE ZONE OF YAMAL SYSTEM

Yamal-601 was launched into orbit on 30 May, 2019. The satellite operates in 49° East orbital slot. The wide coverage zone of Yamal-601 C-Band enables to provide services over the most part of Eastern Hemisphere. The new Ka-band Beams covering the most densely populated part of Russia.

Yamal-300K was launched on 3 November 2012 into the orbital slot 90° East. In 2015 the satellite was relocated to the position 183° East. There are three fixed beams on the satellite covering the Far East, north of the Pacific Ocean and the West Coast of North America. The steerable Beam is pointed over Australia and Oceania.

Yamal-401 was launched on 15 December 2014 into position 90° East. There are C-band Beam and two Ku-band Beams covering almost the entire territory of Russia and neighboring countries.

Yamal-402 was launched on 8 December 2012 and positioned to 55° East. The antennas of Yamal-402 are forming four fixed Beams: Russian, Northern, European, Southern and one steerable. The coverage zones: Russia, CIS countries, almost whole Europe, part of the Middle East and Sub-Saharan Africa.

The main facilities of the satellite ground control complex, including the Mission Control Center and TT&C stations, are located at the Telecommunications Center (Shchelkovo, Moscow region). The Back-up Control Center is based in Pereslavl-Zalessky, the Eastern Control Station – in Khabarovsk.

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