

**National System
of Satellite Communication
and Broadcast of the Republic of Belarus**



"**BELINTERSAT**" is a complex consisting of a modern geostationary communication satellite "BELINTERSAT-1" and the Center for Space Communication "Stankovo".

The satellite "**BELINTERSAT-1**" is located on the geostationary orbit at position 51.5 ° East, is equipped with 38 transponders with 15 years effective life term and covers Europe, Asia and Africa.

Center for Space Communications "**Stankovo**" consists of the Ground Control Station (GCS) and Teleport with Satellite Control Center (SCC), Communications Operation Control Center (COCC) and Ground Application System (GAS).



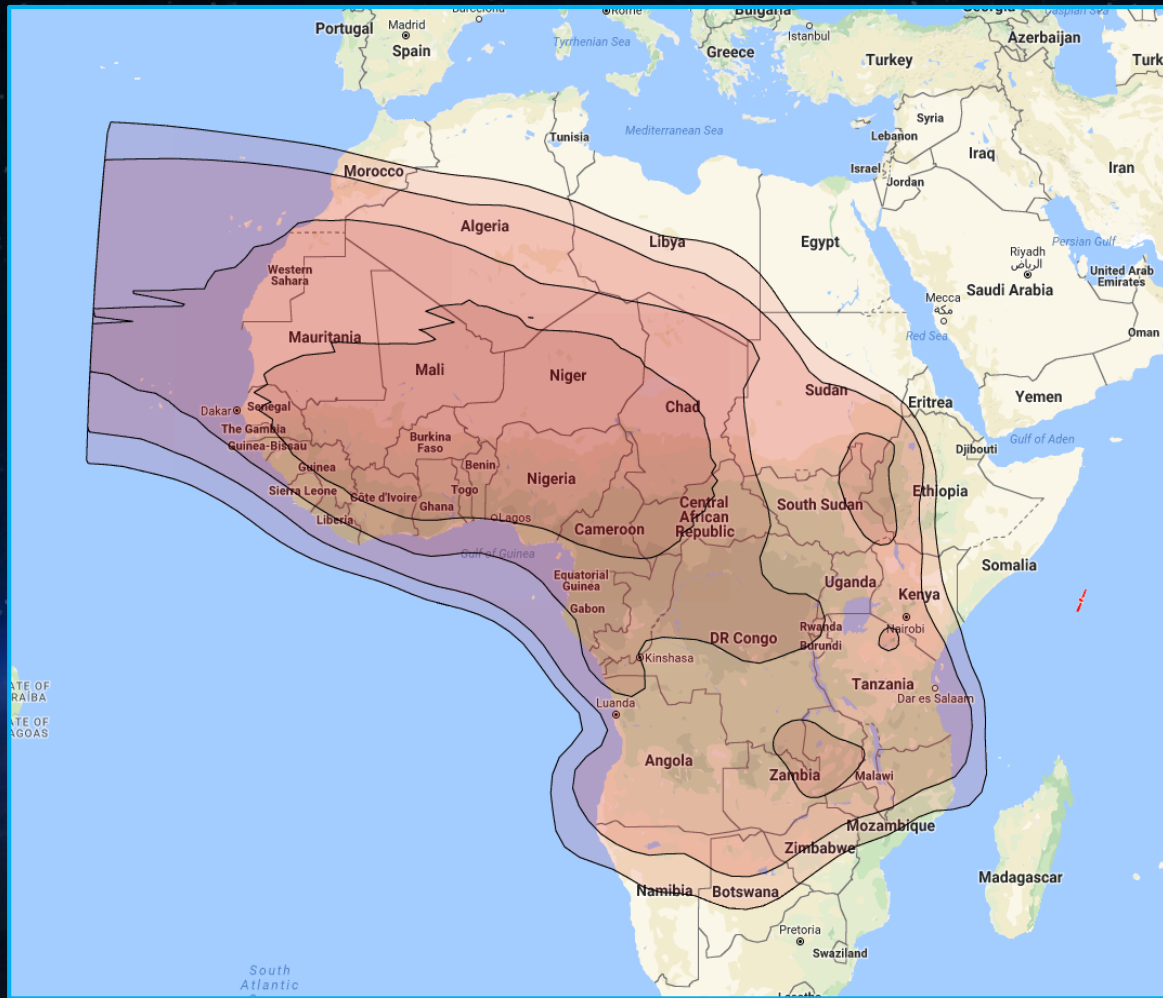
General information about the BELINTERSAT-1 satellite

Satellite name	BELINTERSAT-1
Orbital position	51,5° East
Launch date and launch center	January 2016, Xichang (XSLC), China
Payload	C-band: 20 x 36 MHz Ku-band: 14 x 36 MHz, 4 x 54 MHz
Service areas	Europe, Africa, Asia
Service lifetime	15 years

Beams	Band	Bandwidth	Polarization
African	C-	36 MHz	CL/CR
East	C-	36 MHz	CL/CR
African*	Ku-	36 MHz	V/H
European	Ku-	54 and 36 MHz	V/H

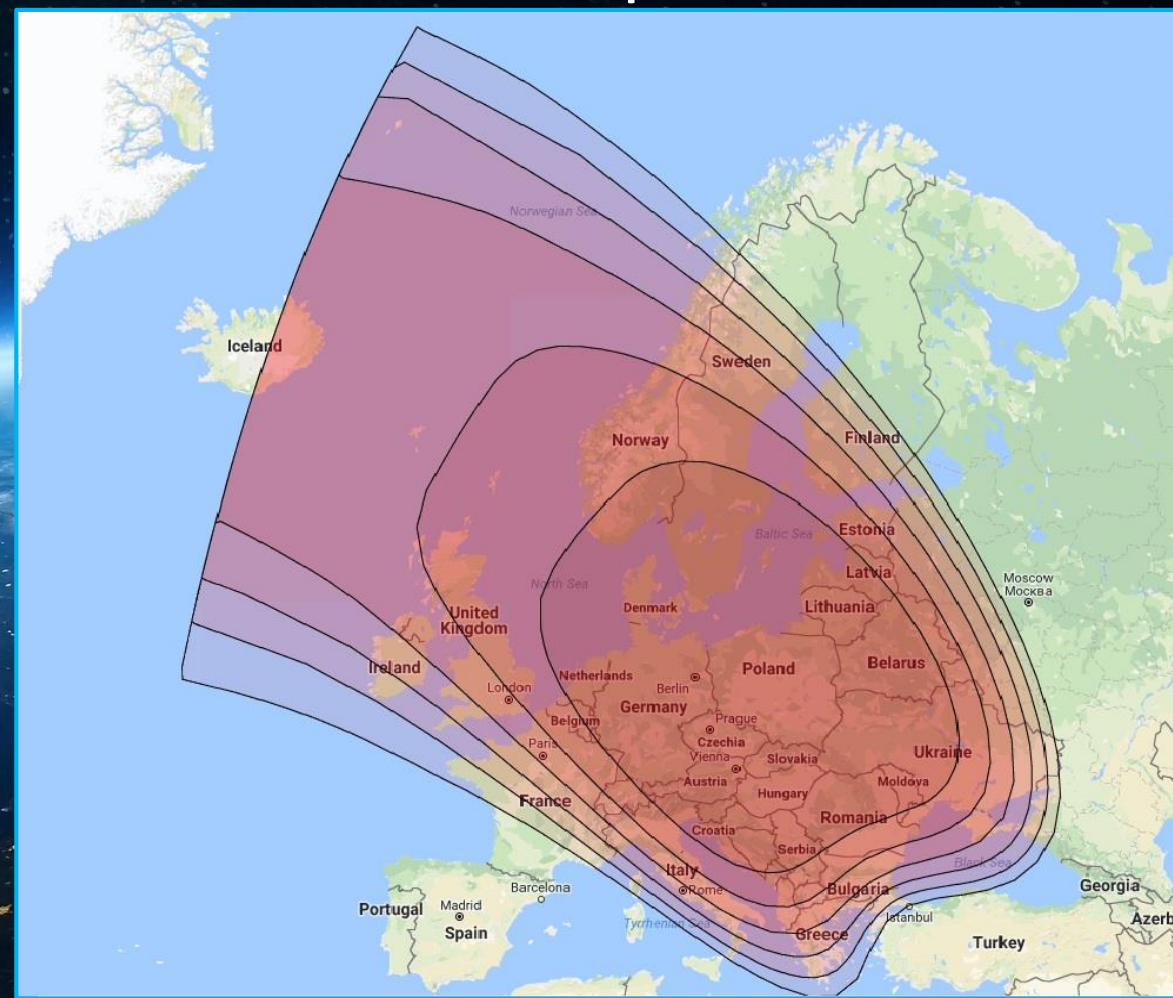
*transponders could be cross-strapped to European beam (uplink in European beam, downlink in African beam)

Ku-band. African beam.



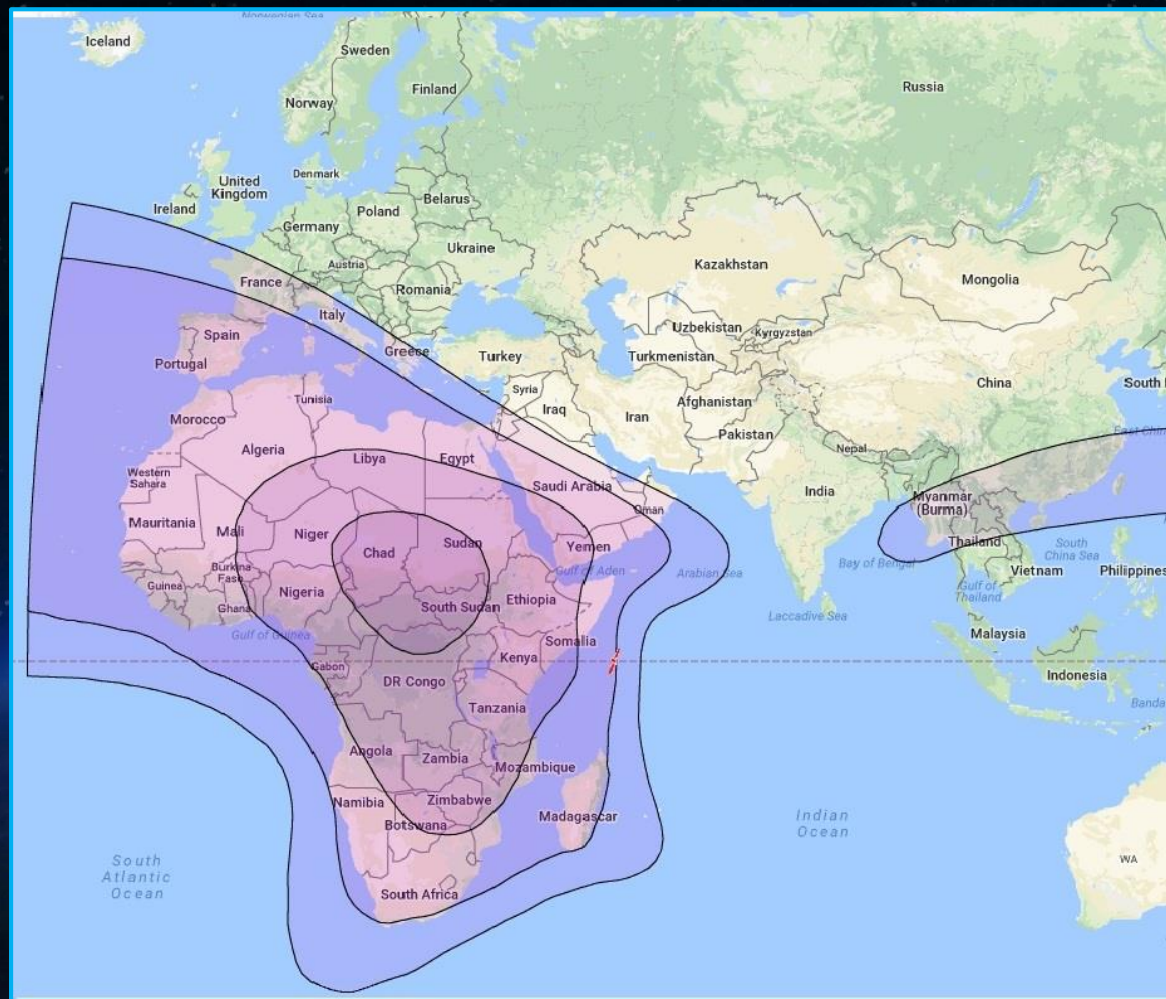
- **UL: 14000 – 14500 MHz DL: 10950 – 11200 MHz**
- **Polarization: V/H (linear)**

Ku-band. European beam.



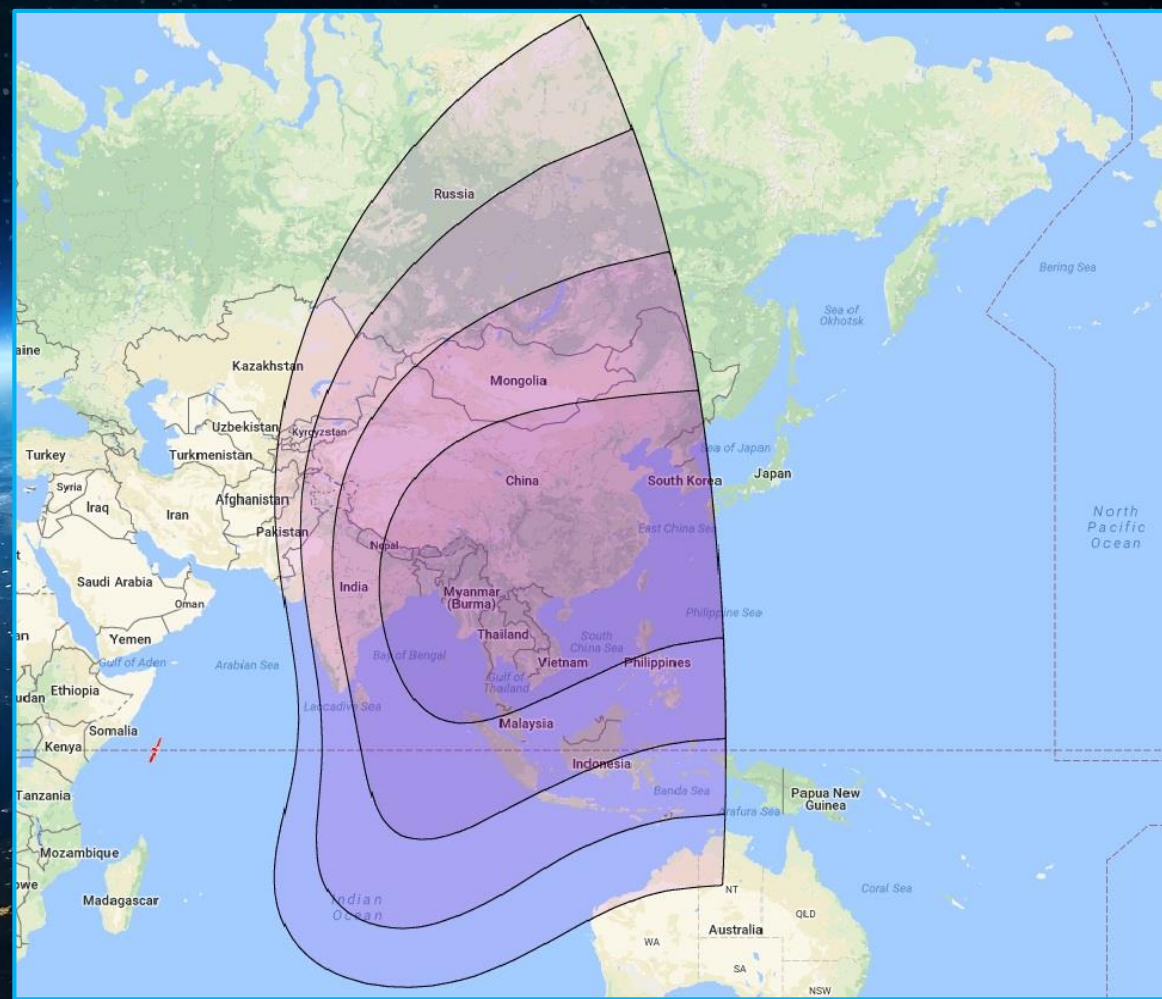
- **UL: 12750 – 12125 MHz DL: 10825 - 10950 , 11200 – 11450 MHz**
- **Polarization: V/H (linear)**

C-band. African Beam.



- UL: 5850 – 6450 МГц DL: 3600 – 4200 МГц
- Polarization: CL/CR (circular)

C-band. East beam.



- UL: 5850 – 6450 MHz DL: 3600 - 4200 MHz
- Polarization : CL/CR (circular)

Belintersat Ground Control Station and Teleport

Central Control Station and Teleport is located 40 km from Minsk

Mirror diameter, m	Band	Type	Comment
13	C	TX/RX	BELINTERSAT-1 satellite control (full-circle)
13	C	TX/RX	Work in C-band
11	C	TX/RX	VSAT networks, the platform Gilat SEllc
11	Ku	TX	Broadcasting Station for TV channels
9	Ku	TX/RX	VSAT networks, iDirect Evolution platform
9	Ku	TX/RX	VSAT networks, the platform Gilat SEll

We work with satellites in orbital positions from 20° W to 80° E

Ground Control Station



Antennas



We provide services:

- Satellite capacity lease in C- and Ku-bands (short term / long term)
- Delivery-on-demand for live broadcasting (occasional use)
- Distribution of television channels (Asia, Africa, Europe; “cross-strap” Asia-Africa, Africa - Europe)
- Satellite Internet (from Europe to Africa; “cross-strap” Asia-Africa, Europe - Africa)
- Organization of communication channels based on VSAT-networks (video remote monitoring)
- CSM in C and Ku bands
- Collocation of antennas and equipment



BELINTERSAT

by NSSC

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