

# Kosmos 2516

**Kosmos 2516** (Russian: Космос 2516 meaning *Space 2516*) is a Russian military satellite launched in 2016 as part of the GLONASS satellite navigation system.

This satellite is a GLONASS-M satellite, also known as Uragan-M, and is numbered Uragan-M No. 753.<sup>[4]</sup>

Kosmos 2516 was launched from Site 43/4 at Plesetsk Cosmodrome in northern Russia. A Soyuz-2-1b carrier rocket with a Fregat upper stage was used to perform the launch which took place at 08:44 UTC on 29 May 2016. The launch successfully placed the satellite into a Medium Earth orbit. It subsequently received its Kosmos designation, and the international designator 2016-032A. The United States Space Command assigned it the Satellite Catalog Number 41554.<sup>[1]</sup>

The satellite is in orbital plane 2, in orbital slot 11.<sup>[5]</sup>

Kosmos 2516 experienced a depressurization event in November 2020, which permanently disabled the satellite after four years in service. GLONASS-K 15 (No. 705), launched on 25 October 2020, was repurposed as its replacement.<sup>[2]</sup>

## Kosmos 2516



Glonass-M satellite model

<b>Mission type</b>	Navigation
<b>Operator</b>	<u>Russian Aerospace Defence Forces</u>
<b>COSPAR ID</b>	2016-032A <sup>[1]</sup>
<b>SATCAT no.</b>	41554 <sup>[1]</sup>
<b>Website</b>	<u>GLONASS status (https://web.archive.org/web/20130504220156/http://www.glonass-ianc.rsa.ru/en/GLONASS/)</u>
<b>Mission duration</b>	Planned: 7 years Actual: 4 years, 5 months <sup>[2]</sup>
<b>Spacecraft properties</b>	
<b>Spacecraft</b>	GLONASS No. 753
<b>Spacecraft type</b>	<u>Uragan-M</u>
<b>Manufacturer</b>	<u>Reshetnev ISS</u> <sup>[3]</sup>
<b>Launch mass</b>	1,414 kilograms (3,117 lb) <sup>[3]</sup>
<b>Dry mass</b>	250 kg <sup>[3]</sup>
<b>Dimensions</b>	1.3 metres (4 ft 3 in) diameter <sup>[3]</sup>
<b>Start of mission</b>	
<b>Launch date</b>	May 29, 2016, 08:44 UTC

<b>Rocket</b>	<u>Soyuz-2.1b/Fregat</u> <sup>[3][4]</sup>
<b>Launch site</b>	<u>Plesetsk 43/4</u>
<b>Contractor</b>	Russian Aerospace Defence Forces
<b>End of mission</b>	
<b>Last contact</b>	November 2020 <sup>[2]</sup>
<b>Orbital parameters</b>	
<b>Reference system</b>	<u>Geocentric</u>
<b>Regime</b>	<u>Medium Earth orbit</u>
<b>Semi-major axis</b>	25,508 km (15,850 mi) <sup>[1]</sup>
<b>Eccentricity</b>	0.0011362 <sup>[1]</sup>
<b>Perigee altitude</b>	19,159 km (11,905 mi) <sup>[1]</sup>
<b>Apogee altitude</b>	19,101 km (11,869 mi) <sup>[1]</sup>
<b>Inclination</b>	64.70 degrees <sup>[1]</sup>
<b>Period</b>	675.7 minutes <sup>[1]</sup>
<b>Epoch</b>	30 January 2017

## See also

- 2016 in spaceflight
- List of Kosmos satellites (2501–2750)
- List of R-7 launches (2015–19)



## References

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