



# Blog Gorana Hudeca

## Predstojeća lansiranja u Svemir (12.10.2020.)

2020.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in **red**. Last change on **12.Oct.2020**.

**Oct14. 0545UTC Soyuz 2-1A Soyuz MS 17 (S63/64)**  
 CDR: Сергей Николаевич **Рыжиков** (Sergey **Ryzhikov**), Сергей Владимирович **Кудь-Сверчков** (Sergey **Kud-Sverchkov**), Kathleen **Rubins**  
 Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

**Oct14. CZ-6A Satellogic (1-13)**  
 Launch site: [Taiyuan](#), China

**Oct16. 0200UTC Delta IV-H NROL-44**  
 Launch site: [Cape Canaveral](#), USA **80**

**Oct20. 2114UTC Electron F15 Planet, Canon Electronics**

**Oct21. 2200UTC Shuang Quxian-1 (Y2) Fangzhou-2**  
 Launch site: [Jiuquan](#), China

**Oct25. Soyuz-2-1B/Fregat-M Glonass K1 / 15L**  
 Launch site: [Плесецк \(Plesetsk\)](#) Cosmodrome, Russia

**Oct25. Falcon 9 NROL-108**

**Oct29. H-IIA JDRS-1**

**Oct31. 0640UTC Falcon 9 Dragon v2 (USCV-1)**  
 Cdr: Michael **Hopkins**, Victor **Glover**, Soichi **Noguchi**, Shannon **Walker**  
 Launch site: [Cape Canaveral](#), USA

**Oct31. CZ-6 LC-16 – Qilu-1, Qilu-4**  
 Launch site: [Taiyuan](#), China

Oct?? GX-1 Gushenxing-1 (Ceres-1) ??Two small satellites  
 Launch site: [Jiuquan](#), China

Oct?? 0100UTC [Falcon 9](#) GPS IIIA-4  
 Launch site: [Cape Canaveral](#), USA

Oct?? [CZ-3B/](#) Yaogan Weixing-30 Group-07  
 Oct?? [Atlas 5](#) 551 AFSPC-8 (GSSAP 5, GSSAP 6)  
 Oct?? [Atlas 5](#) 531 NROL-101  
 Oct?? CZ-6 2m resolution multispectral satellite

**Oct?? Falcon 9 Starlink L13**

?? Cosmic Girl / LauncherOne Launch 3 ELaNaXX  
 Launch site: [Spaceport America](#), USA

?? [Soyuz-2 B /Fregat-M](#) CAS500-1; +



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- ?? [Soyuz-2](#) 1A [Bars-M](#) 3
- Nov03. 0133UTC** [Soyuz-2](#) ST A (VS24) **Falcon Eye 2**  
Launch site: [Kourou](#), French Guiana
- Nov03.** [CZ-6](#) (Y5) **QI-1; QL-4**  
Launch site: [Taiyuan](#), China
- Nov06.** [Falcon 9](#) **SiriusXM SX7** 60
- Nov10. 1945UTC** [Falcon 9](#) **Jason – Sentinel 6A Michael Freilich**  
Launch site: [Cape Canaveral](#), USA
- Nov15.** [Falcon 9](#) **Dragon SpX-21**  
Launch site: [Cape Canaveral](#), USA
- Nov15.** [PSLV](#) (C49) **RISAT-2BR2 + 4 Kleos + 4 Spiresats**  
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India
- Nov16.** [Soyuz-2](#) 1B / [Fregat-M](#) **Gonets x 3 (No 30,31,32)**  
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia
- Nov18.** [Vega](#) VV-17 **Seosat (Ingenio), TARANIS**  
Launch site: [Kourou](#), French Guiana
- Nov24.** [CZ-5](#) Y5 **Chang'e-5 (Sample return)**  
Launch site: [Wenchang](#), China
- Nov24.** [Angara](#) A5 **Kosmos**  
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia
- Nov30.** [Falcon 9](#) **Turksat 5A**  
Launch site: [Cape Canaveral](#), USA
- Nov?? Firefly Alpha first flight  
Launch site: [Vandenberg](#), USA
- Nov?? CZ-6 HY-3A Haiyang-3A  
Nov?? [Electron](#) F16 STP 27R
- ?? Minotaur 1 NROL 111  
?? [Soyuz-2](#) 1B / [Fregat-M](#) Glonass K1 / 16  
?? [KZ-1A](#) Jilin-1, Gaofen-02F  
?? CZ-4C Gaofen-3 (02)
- Dec11.** [Soyuz-2](#) [Progress](#) MS 16  
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan
- Dec14.** [Soyuz-2](#) ST / [Fregat](#) (VS25) **CSO-2**  
Launch site: [Kourou](#), French Guiana
- Dec15.** [Falcon 9](#) **SpaceX Transporter-1**  
Launch site: [Cape Canaveral](#), USA
- Dec17.** [Soyuz-2](#) B / [Fregat-MT](#) **OneWeb smalsat (x36)** 40



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Dec20.	CZ-8	Taihu -1
Dec??	SSLV D1	Microsat 2A
Launch site: <a href="#">Satish Dhawan Space Centre</a> , Sriharikota, India		
Dec??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Tundra (Kupol) 4
Dec??	<a href="#">Delta IV</a> -H	NROL-82
Dec??	<a href="#">PSLV</a> XL (C50)	GSAT 12R
??	??	PACE
??	??	EX-4
??	??	ACE
??	??	HyspIRI
??	Antares	IMAP/STP-05
??	<a href="#">Atlas 5</a> 551	STP-03
??	<a href="#">Atlas 5</a> 551	AFSPC-12 (WFOV (Wide Field of View Testbed missile-warning satellite))
??	Rocket v3.1	DARPA Launch Challenge 3
Launch site: <a href="#">Pacific spaceport complex Alaska</a> , USA		
??	<a href="#">Soyuz-2-1A</a> / <a href="#">Fregat</a>	14F01 (Neutron)
Launch site: Плесецк ( <a href="#">Plesetsk</a> ) Cosmodrome, Russia		
??	<a href="#">Soyuz-2-1V</a>	??
??	<a href="#">Soyuz-2-1B</a>	Pion
??	<a href="#">Soyuz-2-</a>	Razdan 1
??	CZ	FY-4C Fengyun-4C
??	??	Hainan-1 (5)
??	??	Hainan-1 (6)
??	??	Sanya-1 (1)
??	??	Sanya-1 (2)
??	CZ	FY-3F Fengyun-3F (Batch 2)
??	CZ	FY-3 Fengyun-3 RM-2
??	<a href="#">CZ-2D</a>	SJ-19 Shijian-19
??	<a href="#">CZ-11</a>	Fengtai Shaonian-02
??	<a href="#">CZ-2D</a>	CAS 6
??	CZ	CBERS-SAR 1
??	CZ-4C	FY-3E Fengyun-3E
??	CZ	CBERS-6
??	<a href="#">KZ-1A</a>	GeeSat-1A; GeeSat-1B
??	??	EX-3
??	JL-1 (Y2)	Yizheng-1, Yizheng-2 two 0,9 m resolution satelites
??	??	Xidian -1
??	CZ-11	CAS-5A, CAS-5B, CAS-7A, CAS-/C
Launch site: <a href="#">Jiuquan</a> , China		
??	<a href="#">GSLV</a> F10	GISAT 1

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Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

?? [Safir 1 B](#) Nahid-1

Launch site: [Semnan](#), Iran

?? [Safir 1 B](#) Tadbir

?? Safir 3A Pars sepher

71 + 82

2021.

**Jan04.** [Atlas 5 422 \(AV082\)](#) CST-100 Starliner unmaned test

Jan?? [Vega](#) VV-18 ??

?? [Ariane 5](#) ECA GSAT-20

?? [Falcon 9](#) GPS IIIA-5

?? [CZ-3B/G3](#) Tiantong-1 (02)

**Feb25.** [Falcon 9](#) FT [Dragon](#) SpX-22

**Feb28.** [Falcon H](#) AFSPC-44

**Feb??** [Soyuz-2-1B](#) / [Fregat](#) [Arktika-M No1](#)

Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

Feb?? [Antares](#) 230 [Cygnus](#) OA-15

Feb?? [Falcon 9](#) SARah 1

Feb?? [Ariane 5](#) ECA Eutelsat Quantum / Star One D2

?? [Electron](#)/Photon CAPSTONE (Cislunar Autonomous Positioning System Technology Operations and Navigation Experiment)

Launch site: [Wallops Island](#), USA

?? - inaugural flight - Vega-C VV-19 Lares 2

Launch site: [Kourou](#), French Guiana

?? [Falcon 9](#) SiriusXM SX8

Launch site: [Cape Canaveral](#), USA

?? [Ariane 5](#) Arsat 3 140

?? [Ariane 5](#) ViaSat-3 Asia

?? [Ariane 5](#) ECA EDRS-D

?? [CZ-3B/G3](#) FY-4B Fengyun-4B

?? SSLV D2 Demo 2

?? [H-IIA](#) Astro H2 (Hitomi-2), SLIM (Smart Lander for Investigating Moon)

?? [H-IIA](#) 204 Inmarsat-6 F1

**Mar19.** [Soyuz-2](#) [Progress MS 17](#)

**Mar30.** [Falcon 9](#) [Dragon v2 \(USCV-2\)](#)

Cdr: Shane **Kimbrough**, Megan **McArthur**, Akihiko **Hoshide**, Thomas **Pesquet**



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Mar?? [Atlas 5](#) 411 SBIRS-GEO 5  
 Mar?? [Soyuz-2 B/Fregat](#)-MT OneWeb smalsat (x32)  
 Mar?? [GSLV](#) MK II Chandrayan-3  
 Mar?? [CZ-5B](#) Y2 Tian He Space Station Core Module

?? Vega-C VV-20 Pleiades Neo 1, Pleiades Neo 2  
 Launch site: [Kourou](#), French Guiana

?? GSLV-Mk III. Gaganyaan-1 Dr B N Suresh and Mr Madan Lal, Vikram Sarabhai Space Centre (VSSC) presented the concept for the manned space mission including the development of an autonomous Orbital Vehicle (4,000kg manned capsule).

?? [Soyuz-2 ST](#) Galileo-FOC FM23, Galileo-FOC FM24  
 Launch site: [Kourou](#), French Guiana

**Apr01.** [Soyuz-2-1A](#) [Soyuz MS 18](#)  
 CDR: Олэг Вікторович **Новіцкий** (Oleg **Novitsky**), Пётр Валерьевич **Дубров** (Pyotr **Dubrov**), Андрей Иванович **Борисенко** (Andrei Ivanovich **Borisenko**), ??Mark **Vande Hei**

**Apr08.** [Atlas 5](#) **Landsat 9**

**Apr20.** [Proton-M](#) **MLM**  
 Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

Apr?? [Falcon 9](#) IXPE (Imaging X-ray Polarimetry Explorer) **120**

?? [Soyuz-2](#) 1B /[Fregat](#)-M Resurs №4

?? [GSLV](#) MK II F11 GSAT-10A  
 Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

?? [PSLV](#) Oceansat-3A  
 ?? [PSLV](#) RISAT\_1A  
 ?? [GSLV](#) MK II F12 GISAT -2  
 ?? [CZ-3B/G3](#) Tiantong-1 (03)  
 ?? [GSLV](#) GSAT - 32

?? [PSLV](#) ScatSat, NovaSAR

?? [PSLV](#) EnMap

May?? CZ7 TZ 2 Tianzhou 2 (Logistic Cargo Vechile)

?? [Ariane 5](#) ViaSat 3 EMEA  
 ?? Ariane 62 Galileo-FOC FM23, Galileo-FOC FM24  
 ?? [PSLV](#) Amazonia  
 ?? [PSLV](#) HRSAT  
 ?? [PSLV](#) Cartosat-3B  
 ?? [PSLV](#) IRNSS-1J

**June22.** [Falcon 9](#) **DART (Double Asteroid Redirection Test)**

June?? [Atlas 5](#) 422 (AV083) CST-100 Starliner  
 CDR: Michael **Fincke**, Chris **Ferguson**, Nicole Aunapu **Mann**  
 Launch site: [Cape Canaveral](#), USA



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June?? [Soyuz ST B/Fregat](#) MT Euclid  
 Euclid will depart Earth on a Soyuz rocket launched from French Guiana and head for the L2 Lagrange point.  
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June?? [Falcon 9](#) FT [Dragon](#) SpX-23

?? Ariane 62 Galileo-FOC FM25, Galileo-FOC FM26  
 ?? [Soyuz-2](#) 1B /[Fregat](#)-M Tundra (Kupol) 5  
 ?? [Soyuz-2](#) 1B /[Fregat](#)-M Tundra (Kupol) 6  
 ?? [Soyuz-2](#)-1B/[Fregat](#)-M Glonass M / 61  
 ?? [Falcon 9](#) GPS IIIA-6

?? [Soyuz-2](#) 1A [Bars-M](#) 4  
 ?? [Angara](#) A5/ DM 03(Persei) Kosmos  
 ?? [Soyuz-2](#)-1V ??  
 ?? [Soyuz-2](#)-1V ??  
 ?? [Angara](#) 1.2 Kosmos

July?? CZ-2F/G SZ-12 Shenzhou-12

July?? Vulcan/Minotaur 6/[Falcon 9](#) v1.1 JPSS-2  
 July?? [Vega](#) C Biomass  
 July?? GSLV-Mk III. Gaganyaan-2

?? [Soyuz ST](#) B/[Fregat](#)-MT EarthCare  
 ?? CZ-2F/G SZ-13 Shenzhou-13

**Aug12. [Falcon 9](#) [Dragon v2](#) USCV-3 (US Commercial Vehicles)**  
**CDR: Lindgren, ??(NASA), ??(RF)**

Aug?? [Soyuz-2](#) [Progress MS](#) 18

**Sep14. [Soyuz-2](#) 1B [Progress M-UM](#) 80**

**Sep16. [Atlas 5](#) 552 [Dream Chaser Cargo System SNC-1](#)**

Sep?? [Soyuz ST](#) B/[Fregat](#)-MT MetOp-SG A1/EPS-SG-a/Sentinel-5A  
 Sep?? [Falcon 9](#) SWOT  
 Sep?? [Falcon 9](#) OHB SARah 2/3

?? [Delta IV](#)-H NROL-91

**Oct01. [Soyuz-2](#) 1a / [Fregat](#) [Luna 25 \(Luna-Glob-1\)](#)**  
 Launch site: Восточный ([Vostochniy](#)) Cosmodrome, Russia

**Oct05. [Soyuz-2](#)-1A [Soyuz MS](#) 19**  
 CDR: Антон Николаевич **Шкаплеров** (Anton Nikolaevich **Shkaplerov**), Андрей Николаевич **Бабкин** (Andrei **Babkin**), Сергей Владимирович **Корсаков** (Sergei Vladimirovich **Korsakov**)

**Oct16. [Atlas 5](#) 401 [Lucy](#)**

**Oct31. [Ariane 5](#) ES [JWST \(James Webb Space Telescope\)](#)**

**Oct31. [Angara](#) 1.2 [Kompsat-6](#)**



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Oct?? [Falcon 9](#) [Dragon v2](#) Axiom Crew Dragon  
 Cdr: Michael **Lopez-Alegria**, Thomas **Cruise**

Oct?? [Atlas 5](#) 401/[Falcon 9](#) v1.1 JPSS Free Flyer 2 (TSIS-2)  
 Oct?? Ariane 62 CSO-3  
 Oct?? [Antares](#) 230 [Cygnus](#) OA-16

?? [Falcon 9](#) PACE

**Nov17.** [Soyuz-2](#) [Progress MS 19](#)

Nov?? SLS-1 Artemis-1 Orion (unmanned trip around the Moon) Exploration Mission 1  
 (Distant Retrograde Orbit (DRO) Tactical DRM)

**Dec07.** [Atlas 5](#) 541 **GOES-T (National Security Space Launch program)**

**Dec08.** [Soyuz-2-1A](#) [Soyuz MS 20](#)  
 CDR: Александр Александрович **Мисуркин** (Alexander Alexanderovich **Misurkin**), xx,yy

Dec?? [Atlas 5](#) 402 CST 100 Starliner 1  
 Cdr: Sunita **Williams**, Josh **Cassada**, Jeanette **Epps**

Dec?? [Vega](#) C KOMPSAT 7  
 Dec?? GSLV-Mk III. Gaganyaan-3 60  
 Dec?? [Falcon 9](#) NROL-85 Intruder 13A713B  
 Dec?? [Falcon 9](#) NROL-87

?? [Ariane 5](#) MTG-I1

?? [Atlas 5](#) 552 Dream Chaser Cargo System SNC-2  
 ?? [Atlas 5](#) 551 Asteroid Retrieval Spacecraft (ARS)  
 ?? [Falcon H](#) ViaSat 3

?? ?? Seosat-Ingenio-2  
 ?? [Vega](#) OpSis  
 ?? [Vega](#) C CERES (x3)  
 ?? [Vega](#) SSMS – 2 (Small Spacecraft Mission Service)  
 ?? [Vega](#) Proba 3  
 ?? [Vega](#) C Cosmo-SkyMed Secon Gen 2 CSG-2

?? [Falcon 9](#) GPS IIIA-7  
 ?? [Falcon 9](#) GPS IIIA-8

?? [Proton-M/Briz-M](#) Ekspres AMU 3 / Ekspres AMU 7  
 ?? [Proton-M/Briz-M](#) Ekspres AMU 4

?? [Soyuz-2](#) 1A Energiya-100

?? [Soyuz-2](#)-1B/[Fregat](#)-M Meteor M No2-4  
 ?? [Soyuz-2](#)-1B/[Fregat](#)-M Smotr R №1  
 ?? [Soyuz-2](#)-1B/[Fregat](#)-M Arktika M 2 40  
 ?? [Soyuz-2](#)-1B/[Fregat](#)-M Kondor-FKA n.º 2  
 ?? [Soyuz-2](#) 1B /[Fregat](#)-M Resurs №5

?? [Angara](#) A5/ [Briz-M](#) Luch 5M



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??	<a href="#">Soyuz-2 1B /Fregat-M</a>	Glonass K1 / 17
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glonass K2 / 13
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Meteor M No2-3
??	<a href="#">Soyuz-2-1A/Fregat-M</a>	<a href="#">Gonets</a> x 6
??	<a href="#">Soyuz-2-1A/Fregat</a>	Resonance 1A, Resonance 1B RESONANCE is a project to study Earth's magnetosphere consisting of four similar satellites.
??	<a href="#">Soyuz-2-1B</a>	Lotos S1
??	<a href="#">Soyuz-2-1B</a>	Persona
??	<a href="#">Soyuz-2-1A</a>	Kobalt M
??	<a href="#">Soyuz-2-1A</a>	Foton M
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Kondor-FKA n.º 1
??	<a href="#">Soyuz-2-1B</a>	Obzor R -1
??	??	Zond
??	??	MKA PN6 (Monika)
??	??	Картограф-ОЭ №1
??	<a href="#">Soyuz ST B/Fregat</a> (VS26)	OneWeb smalsat (x34)
Launch site: <a href="#">Kourou</a> , French Guiana		
??	<a href="#">Soyuz-2 B/Fregat</a>	OneWeb smalsat (x36)
Launch site: <a href="#">Восточный (Vostochniy)</a> Cosmodrome, Russia		
??	<a href="#">Soyuz-2 B/Fregat</a>	OneWeb smalsat (x34) <b>20</b>
??	<a href="#">Soyuz-2 B/Fregat</a>	OneWeb smalsat (x36)
??	<a href="#">Soyuz-2B/Fregat</a>	OneWeb smalsat (x36)
??	<a href="#">Soyuz-2 B/Fregat</a>	OneWeb smalsat (x36)
??	<a href="#">Soyuz-2 B/Fregat</a>	OneWeb smalsat (x34)
??	<a href="#">Soyuz-2 B/Fregat</a>	OneWeb smalsat (x34)
??	<a href="#">Ariane 5</a>	Heinrich Hertz
??	<a href="#">Ariane 5</a>	SES-17
??	<a href="#">Ariane 5</a>	Comsat NG 1 (Syracuse 4A)
??	<a href="#">Soyuz ST B/Fregat-MT</a>	CSO 2 (Composante Spatiale Optique-2)
??	<a href="#">Soyuz-2 B/Fregat-MT</a>	OneWeb smalsat (x32)
??	Ariane 62	OneWeb
Launch site: <a href="#">Kourou</a> , French Guiana		
??	<a href="#">Vega C</a> CNES/UAE Mars mission	
??	<a href="#">Vega-C</a> Pleiades Neo 3, Pleiades Neo 4	
??	<a href="#">CZ-3B/G2</a>	TCSTAR 1
??	CZ	Venus Global Sensing Probe
??	CZ	FY-3G Fengyun-3G (Batch 2)
??	??	Sansha-1 (1)
??	??	Sansha-1 (2)
??	CZ-4B	HY-3B Haiyang-3B





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## 2022.

Jan?? ?? Solar Sentinels  
 Jan?? [PSLV](#) XL [Aditya'](#)

?? [CZ-5 B](#) Wentian Lab module Space station module

**Mar17.CZ3** Asteroid rendezvous and touchdown Rendezvous with the asteroid Apophis on 18 March 2023, entering its orbit. After 220 days, the probe will depart and then proceed toward asteroid 2002EX11. Flyby is expected on 6 October 2025 at a 9.8 km/s speed. Third and final leg of its journey, the probe will make a rendezvous with asteroid 1996FG3 on 1 January 2027 and enter its orbit. After 180 days, the probe will eventually make landing on its surface on 30 June 2027.

**Mar18.Soyuz-2-1A** [Soyuz MS 21](#)  
 CDR: Николай Чуб (Nikolai Aleksandrovich Chub),

Mar?? [Atlas 5](#) NROL-107 Silentbaker  
 Mar?? [Soyuz-2](#) [Progress MS 20](#)  
 Mar?? [Proton-M/Briz-M](#) Angosat - 2

?? CZ7 TZ 3 Tianzhou 3 (Logistic Cargo Vehicle)  
 ?? CZ-2F/G SZ-14 Shenzhou-14

Apr?? [CZ-3B/G2](#) LSTSAT (Nicasat 1)

?? CZ7 TZ 4 Tianzhou 4 (Logistic Cargo Vehicle)  
 ?? [CZ-5 B](#) Mengtian Lab module Space station module  
 ?? CZ-2F/G SZ-15 Shenzhou-15

**May20. Ariane 5ECA JUICE (JU)piter (IC)y moon Explorer)**

**June04. SLS Block I Orion: Exploration Mission 2 (Crew to Cislunar) Mission)**

June?? Ariane 5 MTG-I2  
 June?? [Atlas 5](#) 402 USCV-4 (US Commercial Vehicles)

?? SLS-1 Artemis-2 Orion (manned trip around the Moon)

July?? [Soyuz-2](#) [Progress MS 21](#)

?? Sunkar ??

Aug?? [Proton-M/Briz-M](#) ExoMars (CM+DM) An ESA exobiology rover equipped with a deep drill developed by Astrium Satellites in the United Kingdom will launch in 2020. A Russian-built entry, descent and landing package will shepherd the rover to the red planet's surface.  
 Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

Aug?? H2B Phobos sample return  
 Aug?? [Atlas 5](#) 411 SBIRS-GEO 6

Oct?? [Soyuz-2-1A](#) [Soyuz MS 22](#)  
 Cdr: Олег Кононенко (Oleg Koponenko), Анна Кикина (Anna Kikina),

Oct?? [Vega](#) C Biomass



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??	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS 23</a>
Cdr: <b>Прокопьев,</b>		
Nov??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 22</a>
Dec??	<a href="#">Soyuz ST B</a> / <a href="#">Fregat</a> -MT	MetOp-SG B1
Dec??	<a href="#">Vega C</a>	FLEX (Fluorescence Explorer satellite)
Dec??	<a href="#">Delta IV-H</a>	NROL-68
Dec??	<a href="#">Atlas 5 402</a> / <a href="#">Falcon 9</a>	USCV-5 (US Commercial Vehicles)
Dec ??	Soyuz 5 / DM	??
??	Sunkar Federatsia (unmaned)	
??	<a href="#">Falcon 9</a>	GPS IIIA-9/GPS IIIB-1
??	<a href="#">Falcon 9</a>	GPS IIIA-10/GPS IIIB-2
??	<a href="#">Proton-M/Briz-M</a>	Elektro L - 4
??	<a href="#">Proton-M/Briz-M</a>	Elektro L - 5
??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a> -M	Smotr R №2
??	<a href="#">Soyuz-2-</a>	Razdan 2
??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a> -M	Resurs PM - 1
??	<a href="#">Ariane 5</a>	Moon's south pole samples return mission
??	<a href="#">Ariane 5</a>	Comsat NG 2 (Syracuse 4B)
??	Vega_CSpace Rider flight 1	
??	Vega_CSpace Rider flight 2	
??	<a href="#">Vega C</a> CryoSat FO	
??	CZ	Xuntian (Two Meter Space Telescope)
??	CZ	HY-3C Haiyang-3C

## 2023.

Jan??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 23</a>
Apr??	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS 24</a>
Cdr: Oleg <b>Artemyev</b> , Mukhtar <b>Aymakhanov</b>		
??	CZ7	TZ 5 Tianzhou 5 (Logistic Cargo Vechile)
??	CZ-2F/G	SZ-16 Shenzhou-16
June??	<a href="#">Atlas 5 402</a> / <a href="#">Falcon 9</a>	USCV-6 (US Commercial Vehicles)
July??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 24</a>
??	<a href="#">Ariane 5</a>	MTG-S2/Sentinel-4A
Oct??	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS 25</a>
Nov??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 25</a>
Dec??	<a href="#">Atlas 5 402</a> / <a href="#">Falcon 9</a>	USCV-7 (US Commercial Vehicles)



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??	SLS Block IA II	Orion: Exploration Mission 3 (Crew to Cislunar)
??	Sunkar Federatsia (unmaned flight to ISS)	
??	A Russian <a href="#">Proton/Briz-M</a> (or Angara) rocket to launch the <a href="#">Laplas-P</a> mission to orbit the moon of Jupiter Ganymede.	
??	<a href="#">Proton-M/Briz-M</a>	Ekspress – AT3, AT4
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Resurs PM - 3
??	<a href="#">Angara</a> 1.2	<a href="#">Gonets</a> x 3
??	<a href="#">Soyuz-2-1B</a>	Obzor R -2
??	<a href="#">Soyuz-2-1B</a>	Obzor O -1
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Ellips - 1
??	<a href="#">Angara</a> A5P/DM03	Dopler 1, 2
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Meteor M No2-5
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Arktika M 3
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Resurs PM - 2
??	<a href="#">Proton-M/Briz-M</a>	Space Drone x2
??	<a href="#">Proton-M/Briz-M</a>	Inmarsat-6 F2
??	<a href="#">Proton-M/Briz-M</a>	Kosmos
??	<a href="#">Proton-M</a>	НЭМ-1
??	<a href="#">Proton-M/Briz-M</a>	Ekspress – AMU 5
??	<a href="#">Proton-M/Briz-M</a>	Ekspress – AMU 6
??	<a href="#">Proton-M/Briz-M</a>	Ekspress – RV 3, Ekspress – RV 4
??	<a href="#">Proton-M/Briz-M</a>	Yenisey A1
??	<a href="#">Proton-M/Briz-M</a>	Ямал-501
??	<a href="#">Proton-M/Briz-M</a>	Ямал-GK-1
??	<a href="#">Proton-M</a>	PTK NP
??	<a href="#">Proton-M/Briz-M</a>	Ekspress-RV1, Ekspress-RV2
??	<a href="#">Proton-M/Briz-M</a>	Anik G2V
??	<a href="#">Proton-M/Briz-M</a>	Luch-5VM 1
??	<a href="#">Proton-M/Briz-M</a>	Luch-5VM 2
??	<a href="#">Ariane 5</a> VA254	MTG-S1/Sentinel-4A
	Launch site: <a href="#">Kourou</a> , French Guiana	
??	<a href="#">Vega</a> C Space Rider 3	
??	<a href="#">Vega</a> C Space Rider 4	
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	Sentinel-1C
??	CZ	SPORT (Solar Polar Orbit Radio Telescope)
??	CZ	FY-4D Fengyun-4D
??	CZ	Chang'e-7 (Moon south pole landing)
??	CZ-3B/G2	Palapa N1R
??	<a href="#">GSLV</a> MK III	Shukrayaan (Venus orbiter)
??	<a href="#">Angara</a> A5P/DM03	Lutch 5 – 2
??	<a href="#">Soyuz-2-1b</a>	Bion-M No. 2
??	<a href="#">Angara</a> A5P/DM03	Lutch 5 – 3
??	??	Ямал GK 2



# Blog Gorana Hudeca

?? [Soyuz-2](#) 1a / [Fregat](#) [Luna 26](#) (Luna-Resurs OA)

## 2024

Jan?? [Soyuz-2](#) [Progress MS](#) 26

Feb?? [Delta IV-H](#) NROL-70

Mar?? [Soyuz-2](#) [Progress MS](#) 27

Apr?? [Soyuz-2](#)-1A [Soyuz MS](#) 26

June?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-8 (US Commercial Vehicles)

?? CZ7 TZ 6 Tianzhou 6 (Logistic Cargo Vehicle)

Sep?? [GSLV](#) MK III Mangalyaan – 2 Mars Orbiter

Oct?? [Soyuz-2](#)-1A [Soyuz MS](#) 27

Oct?? EELV GOES-U

Dec?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-9 (US Commercial Vehicles)

?? SLS-1 Artemis-3 Orion (EM-3 Crew to Gateway with landing on Moon)

?? Sunkar Federatsia (Light 14t – 2 man to ISS)

?? [Proton-M](#) / DM-03 Spektr - UF

?? [Soyuz-2](#)-1B/[Fregat](#)-M Resurs PM - 4

?? [Angara](#) 1.2 [Gonets](#) x 2, Gonets M

?? [Soyuz-2](#)-1B/[Fregat](#)-M Arktika M 4

?? Ямал GK VEO 1

?? [Soyuz-2](#)-1A Obzor P -1

?? [Soyuz-2](#)-1B/[Fregat](#)-M Razdan - 3

?? [Soyuz-2](#)-1B/[Fregat](#)-M Meteor M No2-6

?? ?? DYNAMIC/STP-06

?? CZ Asteroid (Ceres) Sample Return Mission

?? [CZ-5](#) Chang'e-6 Moon polar area sample return

?? Lapan Pengorbitan-1 (RPS-01) (Indonesia)

## 2025

June?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-10 (US Commercial Vehicles)

?? SLS-1B Artemis-4 Orion (EM-4 Crew to Gateway with landing on Moon)

Aug?? [Soyuz-2](#) 1b Luna 27 (Luna-Resurs PA) Testing an adaptive landing mode with a radio-beacon; delivering a rover

Dec?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-11 (US Commercial Vehicles)



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??	SLS Block IA II	Orion: Exploration Mission 5 (Crew to Cislunar)
??	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS 28</a>
??	SLS Block I	Europa Clipper
??	<a href="#">Soyuz-2 1b</a>	Luna28 (Luna-Grunt-1) delivering a new-generation rover for gathering, analysis and uploading of samples
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Resonans 2A, 2B, MKA-PN5
??	??	Ямал GK VEO 2
??	??	Ямал GK VEO 3
??	<a href="#">Angara 1.2</a>	<a href="#">Gonets</a> x 3
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Arktika M 5
??	<a href="#">Soyuz-2-1B</a>	Obzor O -2
??	<a href="#">Soyuz-2-1B</a>	Bion-M No. 3

## 2026.

June??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-12 (US Commercial Vehicles)
Dec??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-13 (US Commercial Vehicles)
??June??	<a href="#">Angara</a> A5P/KVTK	A mission to Venus ( <i>Venera D</i> ) would be launched
??	SLS-1B Artemis-5	Orion (EM-5 Crew to Gateway with landing on Moon)
??	SLS-1B Artemis-6	Orion (EM-6 Crew to Gateway with landing on Moon)
??	CZ	Jupiter Orbiter
??	CZ	Mars Sample Return
??	CZ	Chang'e-8 (Moon north pole landing)
??	<a href="#">Angara</a> A5/DM03	Bumerang (FobosGrunt 2)

## 2027.

June??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-14 (US Commercial Vehicles)
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## 2069.

??	??	<a href="#">Interstellar mission</a>
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