



# Blog Gorana Hudeca

## Predstojeća lansiranja u Svemir (16.11.2020.)

2020.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in **red**. Last change on **16.Nov.2020**.

**Nov16. 0049UTC [Falcon 9](#) [Dragon v2 \(USCV-1\)](#)**

Cdr: Michael **Hopkins**, Victor **Glover**, Soichi **Noguchi**, Shannon **Walker**

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

**Nov17. 0152UTC [Vega](#) **VV-17 Seosat (Ingenio), TARANIS****

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

**Nov18. [Falcon 9](#) **NROL-108****

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

**Nov19. 0434UTC [Electron](#) F16 **Return to sender** **Dragracer + 30 sats****

Launch site: [Kaitorete Spit](#), New Zeland **60**

**Nov21. [Falcon 9](#) **Jason – Sentinel 6A Michael Freilich****

Launch site: [Vandenberg](#), USA

**Nov23. 1955UTC [CZ-5](#) Y5 **Chang'e-5 (Sample return)****

Launch site: [Wenchang](#), China

**Nov24. [Soyuz-2 1B /Fregat-M](#) [Gonets](#) x 3 (No 30,31,32)**

Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

**Nov28. 0522UTC [Angara A5](#) **Kosmos****

Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

**Nov29. 0133UTC [Soyuz-2 ST A \(VS24\)](#) **Falcon Eye 2****

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

**Nov29. 0715UTC [H-IIA](#) **JDRS-1****

Launch site: [Tanegashima](#), Japan

Nov?? 0200UTC [Delta IV-H](#) **NROL-44**

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

Nov?? [Falcon 9](#) [Starlink](#) L15

?? [Soyuz-2 1B /Fregat-M](#) **Glonass K1 / 16**

?? [Soyuz-2 1A](#) [Bars-M](#) 3

**Dec02. 1750UTC [Falcon 9](#) [Dragon](#) SpX-21**

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

**Dec05. [CZ-3B/G3](#) **Gaofen-14****

Launch site: [Xichang](#), China

**Dec06. 0930UTC [PSLV](#) XL (C50) **GSAT 12R****

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



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**Dec09.**      [CZ-11](#)      **GECAM**

Launch site: [Xichang, China](#)

**Dec17.**      [Soyuz-2 B/Fregat-MT](#)      **OneWeb smalsat (x36)**

**Dec18.**      [Falcon 9](#)      **SpaceX Transporter-1**

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

**Dec20.**      **CZ-8**      **XJY-7**

Launch site: [Wenchang, China](#)

**Dec22.**      **Firefly Alpha first flight**

Launch site: [Vandenberg](#), USA

**Dec28.**      [Soyuz-2 ST / Fregat \(VS25\) CSO-2](#)

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

Dec??      SSLV D1      Microsat 2A      **40**

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

Dec??      [Falcon 9](#)      Turksat 5A

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

Dec??      [Falcon 9](#)      SiriusXM SX7

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

Dec??      [Delta IV-H](#)      NROL-82

Dec??      [Electron F17](#)      STP 27R

Dec??      [CZ-4C](#)      **Yaogan Weixing -31 Group-2**

??      Cosmic Girl / LauncherOne      Launch 3      ELaNaXX

Launch site: [Spaceport America](#), USA

??      ??      PACE

??      ??      EX-4

??      ??      ACE

??      ??      HypIRI

??      Antares      IMAP/STP-05

??      Rocket v3.1      DARPA Launch Challenge 3

Launch site: [Pacific spaceport complex Alaska](#), USA

??      [Soyuz-2-1A/Fregat](#)      14F01 (Neutron)

Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

??      [Soyuz-2-1V](#)      ??

??      [Soyuz-2-1B](#)      Pion

??      [Soyuz-2-](#)      Razdan 1

??      CZ-11      CAS-5A, CAS-5B, CAS-7A, CAS-/C

Launch site: [Jiuquan](#), China

??      CZ-6 LC-16      Qilu-1, Qilu-4

Launch site: [Taiyuan](#), China

??      CZ      FY-4C Fengyun-4C



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??	??	Hainan-1 (5)	20
??	??	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-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-6	HY-3A Haiyang-3A	
??	<a href="#">KZ-1A</a>	Jilin-1, Gaofen-02F	
??	CZ-4C	Gaofen-3 (02)	
??	CZ-6	2m resolution multispectral satellite	
??	<a href="#">Safir 1 B</a>	Nahid-1	

Launch site: [Semnan](#), Iran

83 + 63

## 2021.

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

Jan?? Shuang Quxian-1 SQX-1 (Y2) Fangzhou-2  
Launch site: [Jiuquan](#), China

Jan?? [GSLV](#) F10 GISAT 1  
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

Jan?? [CZ-3B/G3](#) Tiantong-1 (03)

?? [Soyuz-2](#) [Progress MS](#) 16  
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

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

?? [Ariane 5](#) ECA GSAT-20  
?? [Falcon 9](#) GPS IIIA-5 160

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

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



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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  
Feb?? [Atlas 5](#) 551 STP-03  
Feb?? [Vega](#) VV-18 Pleiades Neo 1

?? [Electron/Photon](#) CAPSTONE (Cislunar Autonomous Positioning System Technology Operations and Navigation Experiment)  
Launch site: [Wallops Island](#), USA

?? [Falcon 9](#) SiriusXM SX8  
Launch site: [Cape Canaveral](#), USA

?? [Ariane 5](#) Arsat 3  
?? [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  
?? Minotaur 1 NROL 111  
?? [Soyuz-2](#) 1B / [Fregat](#)-M Tundra (Kupol) 4

**Mar19.** [Soyuz-2](#) [Progress MS 17](#) 140

**Mar30.** [Falcon 9](#) [Dragon v2 \(USCV-2\)](#)  
Cdr: Shane **Kimbrough**, Megan **McArthur**, Akihiko **Hoshide**, Thomas **Pesquet**

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  
Mar?? [Atlas 5](#) 511 (AV-085) AFSPC-8 (GSSAP 5, GSSAP 6)

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

**Apr01.** [Soyuz-2-1A](#) [Soyuz MS 18](#)  
CDR: Олэг Вікторович **Новіцкий** (Oleg **Novitsky**), Пётр Валерьевич **Дубров** (Pyotr **Dubrov**), Сергей Владимирович **Корсаков** (Sergei **Vladimirovich Korsakov**)

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

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

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

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



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?? [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  
 ?? [GSLV](#) GSAT - 32 120

?? [PSLV](#) ScatSat, NovaSAR

?? [PSLV](#) EnMap

May?? CZ7 TZ 2 Tianzhou 2 (Logistic Cargo Vehicle)  
 May?? [Soyuz-2](#) 1A Cosmo-SkyMed Secon Gen 2 CSG-2

?? [Ariane 5](#) ViaSat 3 EMEA  
 ?? Ariane 62 Galileo-FOC FM23, Galileo-FOC FM24  
 ?? [PSLV](#) Amazonia  
 ?? [PSLV](#) HRSAT  
 ?? [PSLV](#) Cartosat-3B  
 ?? [PSLV](#) IRNSS-1J  
 ?? [CZ-2D](#) SJ-19 Shijian-19

## 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

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.

June?? [Falcon 9](#) FT [Dragon](#) SpX-23

June??. - inaugural flight - Vega-C VV-19 Lares 2  
 Launch site: [Kourou](#), French Guiana

?? 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 / 61 100  
 ?? [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





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July??	<a href="#">Antares</a> 230	<a href="#">Cygnus</a> OA-16	
??	Vega-C VV-20	Pleiades Neo 2	
Launch site:	<a href="#">Kourou</a> , French Guiana		
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	EarthCare	
??	CZ-2F/G	SZ-13 Shenzhou-13	
<b>Aug12.</b>	<b><a href="#">Falcon 9</a></b>	<b><a href="#">Dragon v2</a> USCV-3 (US Commercial Vehicles)</b>	
<b>CDR:</b>	<b>Lindgren, ??(NASA), ??(RF)</b>		
Aug??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 18	
Aug??	<a href="#">Atlas 5</a> 551	AFSPC-12 (WFOV (Wide Field of View Testbed missile-warning satellite))	
Aug??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a> -M	Meteor M No2-3	
<b>Sep14.</b>	<b><a href="#">Soyuz-2</a> 1B</b>	<b>Progress M-UM</b>	
<b>Sep16.</b>	<b><a href="#">Atlas 5</a> 552</b>	<b>Dream Chaser Cargo System SNC-1</b>	<b>80</b>
Sep??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	MetOp-SG A1/EPS-SG-a/Sentinel-5A	
Sep??	<a href="#">Falcon 9</a>	SWOT	
Sep??	<a href="#">Falcon 9</a>	OHB SARah 2/3	
??	<a href="#">Delta IV</a> -H	NROL-91	
<b>Oct01.</b>	<b><a href="#">Soyuz-2</a> 1a / <a href="#">Fregat</a></b>	<b>Luna 25 (Luna-Glob-1)</b>	
Launch site:	Восточный ( <a href="#">Vostochniy</a> ) Cosmodrome, Russia		
<b>Oct05.</b>	<b><a href="#">Soyuz-2-1A</a></b>	<b><a href="#">Soyuz MS</a> 19</b>	
<b>CDR:</b>	<b>Антон Николаевич Шкаплеров (Anton Nikolaevich Shkaplerov), Андрей Николаевич Бабкин (Andrei Babkin), Петелин</b>		
<b>Oct16.</b>	<b><a href="#">Atlas 5</a> 401</b>	<b>Lucy</b>	
<b>Oct31.</b>	<b><a href="#">Ariane 5</a> ES</b>	<b>JWST (James Webb Space Telescope)</b>	
<b>Oct31.</b>	<b><a href="#">Angara</a> 1.2</b>	<b>Kompsat-6</b>	
Oct??	<a href="#">Falcon 9</a>	<a href="#">Dragon v2</a> Axiom Crew Dragon	
Cdr:	Michael <b>Lopez-Alegria</b> , Thomas <b>Cruise</b>		
Oct??	<a href="#">Atlas 5</a> 401/ <a href="#">Falcon 9</a> v1.1	JPSS Free Flyer 2 (TSIS-2)	
Oct??	Ariane 62	CSO-3	
??	<a href="#">Falcon 9</a>	PACE	
<b>Nov17.</b>	<b><a href="#">Soyuz-2</a></b>	<b><a href="#">Progress MS</a> 19</b>	
Nov??	SLS-1	Artemis-1	Orion (unmanned trip around the Moon) Exploration Mission 1
	(Distant Retrograde Orbit (DRO) Tactical DRM)		
<b>Dec07.</b>	<b><a href="#">Atlas 5</a> 541</b>	<b>GOES-T (National Security Space Launch program)</b>	
<b>Dec08.</b>	<b><a href="#">Soyuz-2-1A</a></b>	<b><a href="#">Soyuz MS</a> 20</b>	
<b>CDR:</b>	<b>Александр Александрович Мисуркин (Alexander Alexanderovich Misurkin), xx,yy</b>		



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Dec??	<a href="#">Atlas 5</a> 402	CST 100 Starliner 1	
Cdr: Sunita <b>Williams</b> , Josh <b>Cassada</b> , Jeanette <b>Epps</b>			
Dec??	<a href="#">Vega</a> C KOMPSAT 7		
Dec??	GSLV-Mk III. Gaganyaan-3		60
Dec??	<a href="#">Falcon 9</a>	NROL-85 Intruder 13A713B	
Dec??	<a href="#">Falcon 9</a>	NROL-87	
??	<a href="#">Ariane 5</a>	MTG-I1	
??	<a href="#">Atlas 5</a> 552	Dream Chaser Cargo System SNC-2	
??	<a href="#">Atlas 5</a> 551	Asteroid Retrieval Spacecraft (ARS)	
??	<a href="#">Falcon H</a>	ViaSat 3	
??	??	Seosat-Ingenio-2	
??	<a href="#">Vega</a>	OpSis	
??	<a href="#">Vega_C</a>	CERES (x3)	
??	<a href="#">Vega</a>	SSMS - 2 (Small Spacecraft Mission Service)	
??	<a href="#">Vega</a>	Proba 3	
??	<a href="#">Falcon 9</a>	GPS IIIA-7	
??	<a href="#">Falcon 9</a>	GPS IIIA-8	
??	<a href="#">Proton-M/Briz-M</a>	Ekspress AMU 3 / Ekspress AMU 7	
??	<a href="#">Proton-M/Briz-M</a>	Ekspress AMU 4	
??	<a href="#">Soyuz-2</a> 1A	Energiya-100	
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Meteor M No2-4	
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Smotr R №1	
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Arktika M 2	
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Kondor-FKA n.º 2	40
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Resurs №5	
??	<a href="#">Angara</a> A5/ <a href="#">Briz-M</a>	Luch 5M	
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Glonass K1 / 17	
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Glonass K2 / 13	
??	<a href="#">Soyuz-2</a> -1A/ <a href="#">Fregat</a> -M	<a href="#">Gonets</a> x 6	
??	<a href="#">Soyuz-2</a> -1A/ <a href="#">Fregat</a>	Resonance 1A, Resonance 1B	RESONANCE is a project to study Earth's magnetosphere consisting of four similar satellites.
??	<a href="#">Soyuz-2</a> -1B	Lotos S1	
??	<a href="#">Soyuz-2</a> -1B	Persona	
??	<a href="#">Soyuz-2</a> -1A	Kobalt M	
??	<a href="#">Soyuz-2</a> -1A	Foton M	
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Kondor-FKA n.º 1	
??	<a href="#">Soyuz-2</a> -1B	Obzor R -1	
??	??	Zond	
??	??	MKA PN6 (Monika)	
??	??	Картограф-ОЭ №1	



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??	<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: Восточный ( <a href="#">Vostochniy</a> ) Cosmodrome, Russia		
??	<a href="#">Soyuz-2 B/Fregat</a>	OneWeb smalsat (x34)
??	<a href="#">Soyuz-2 B/Fregat</a>	OneWeb smalsat (x36)
??	<a href="#">Soyuz-2B/Fregat</a>	OneWeb smalsat (x36) <b>20</b>
??	<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</a> -MT	CSO 2 (Composante Spatiale Optique-2)
??	<a href="#">Soyuz-2 B/Fregat</a> -MT	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
??	<a href="#">Safir 1 B</a>	Tadbir
??	Safir 3A	Pars sepher

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## 2022.

Jan??	??	Solar Sentinels
Jan??	<a href="#">PSLV</a> XL	<a href="#">Aditya'</a>
??	<a href="#">CZ-5 B</a>	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),





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Mar??	<a href="#">Atlas 5</a>	NROL-107 Silentbaker
Mar??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 20</a>
Mar??	<a href="#">Proton-M/Briz-M</a>	Angosat - 2
??	CZ7	TZ 3 Tianzhou 3 (Logistic Cargo Vehicle)
??	CZ-2F/G	SZ-14 Shenzhou-14
Apr??	<a href="#">CZ-3B/G2</a>	LSTSAT (Nicasat 1)
??	CZ7	TZ 4 Tianzhou 4 (Logistic Cargo Vehicle)
??	<a href="#">CZ-5</a> B Mengtian Lab module	Space station module
??	CZ-2F/G	SZ-15 Shenzhou-15
<b>May20.</b>	<b><a href="#">Ariane 5</a>ECA</b>	<b>JUICE (JU</b> piter <b>IC</b> y moon Explorer)
<b>June04.</b>	<b>SLS Block I</b>	<b>Orion: Exploration Mission 2 (Crew to Cislunar) Mission)</b>
June??	Ariane 5	MTG-I2
June??	<a href="#">Atlas 5</a> 402	USCV-4 (US Commercial Vehicles)
??	SLS-1	Artemis-2 Orion (manned trip around the Moon)
July??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 21</a>
??	Sunkar ??	
Aug??	<a href="#">Proton-M/Briz-M</a>	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 ( <a href="#">Baikonur</a> ) Cosmodrome, Kazakhstan
Aug??	H2B	Phobos sample return
Aug??	<a href="#">Atlas 5</a> 411	SBIRS-GEO 6
Oct??	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS 22</a>
Cdr: Олег <b>Кононенко</b> (Oleg <b>Копепенко</b> ), Анна <b>Кикина</b> (Anna <b>Kikina</b> ),		
Oct??	<a href="#">Vega</a> C Biomass	
??	<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</a> B/ <a href="#">Fregat</a> -MT	MetOp-SG B1
Dec??	<a href="#">Vega</a> C	FLEX (Fluorescence Explorer satellite)
Dec??	<a href="#">Delta IV</a> -H	NROL-68
Dec??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-5 (US Commercial Vehicles)
Dec ??	Soyuz 5 / DM	??
??	Sunkar Federatsia (unmanned)	
??	<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



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??	<a href="#">Proton-M/Briz-M</a>	Elektro L - 5
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Smotr R №2
??	<a href="#">Soyuz-2-</a>	Razdan 2
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	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</a>	C CryoSat FO
??	CZ	HY-3C Haiyang-3C

## 2023.

Jan??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 23
Apr??	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS</a> 24
	Cdr: Oleg <b>Artemyev</b> , Mukhtar <b>Aymakhanov</b>	
??	CZ7	TZ 5 Tianzhou 5 (Logistic Cargo Vehicle)
??	CZ-2F/G	SZ-16 Shenzhou-16
June??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-6 (US Commercial Vehicles)
July??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 24
??	<a href="#">Ariane 5</a>	MTG-S2/Sentinel-4A
Oct??	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS</a> 25
Nov??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 25
Dec??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-7 (US Commercial Vehicles)
??	SLS Block IA II	Orion: Exploration Mission 3 (Crew to Cislunar)
??	Sunkar Federatsia (unmanned 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



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??	<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>	РТК 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 C</a> Space Rider 3	
??	<a href="#">Vega C</a> Space Rider 4	
??	<a href="#">Soyuz ST B/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</a> -1b	Bion-M No. 2
??	<a href="#">Angara</a> A5P/DM03	Lutch 5 – 3
??	??	Ямал GK 2
??	<a href="#">Soyuz-2</a> 1a / <a href="#">Fregat</a>	<a href="#">Luna 26</a> (Luna-Resurs OA)

## 2024

Jan??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 26
Feb??	<a href="#">Delta IV</a> -H	NROL-70
Mar??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 27
Apr??	<a href="#">Soyuz-2</a> -1A	<a href="#">Soyuz MS</a> 26
June??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-8 (US Commercial Vehicles)
??	CZ7	TZ 6 Tianzhou 6 (Logistic Cargo Vehicle)
Sep??	<a href="#">GSLV</a> MK III	Mangalyaan – 2 Mars Orbiter



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Oct??	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS 27</a>
Oct??	EELV	GOES-U
Dec??	<a href="#">Atlas 5 402 / Falcon 9</a>	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)
??	<a href="#">Proton-M / DM-03</a>	Spektr - UF
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Resurs PM - 4
??	<a href="#">Angara 1.2</a>	<a href="#">Gonets</a> x 2, Gonets M
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Arktika M 4
??	??	Ямал GK VEO 1
??	<a href="#">Soyuz-2-1A</a>	Obzor P -1
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Razdan - 3
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Meteor M No2-6
??	??	DYNAMIC/STP-06
??	CZ	Asteroid (Ceres) Sample Return Mission
??	<a href="#">CZ-5</a>	Chang'e-6 Moon polar area sample return
??	CZ	Xuntian (Two Meter Space Telescope)
??	Lapan	Pengorbitan-1 (RPS-01) (Indonesia)
<b>2025</b>		
June??	<a href="#">Atlas 5 402 / Falcon 9</a>	USCV-10 (US Commercial Vehicles)
??	SLS-1B Artemis-4	Orion (EM-4 Crew to Gateway with landing on Moon)
Aug??	<a href="#">Soyuz-2 1b</a>	Luna 27 (Luna-Resurs PA) Testing an adaptive landing mode with a radio-beacon; delivering a rover
Dec??	<a href="#">Atlas 5 402 / Falcon 9</a>	USCV-11 (US Commercial Vehicles)
??	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



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## 2026.

- June?? [Atlas 5](#) 402 / [Falcon 9](#) USCVC-12 (US Commercial Vehicles)
- Dec?? [Atlas 5](#) 402 / [Falcon 9](#) USCVC-13 (US Commercial Vehicles)
- ??June?? [Angara](#) A5P/KVTK A mission to Venus (*Venera D*) 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)
- ?? [Angara](#) A5/DM03 Bumerang (FobosGrunt 2)

## 2027.

- June?? [Atlas 5](#) 402 / [Falcon 9](#) USCVC-14 (US Commercial Vehicles)

## 2069.

- ?? ?? [Interstellar mission](#)