



# Blog Gorana Hudeca

## Predstojeća lansiranja u Svemir (30.9.2019.)

2019.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in **red**. Last change on **30.Sep 2019**.

**Oct09. 1017UTC**    **Proton-M/Briz-M**    **EutelSat 5 West B / MEV**

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

**Oct10. 0125UTC**    **Pegasus-XL**    **ICON ([Helio EX-1](#))**

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

**Oct15.**    **[PSLV](#) C47**    **CARTOSAT-3, NEMO-AM**    , **FUSE**

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

**Oct17.**    **[Falcon 9](#)**    **Starlink v1 Flight 1**

**Oct28.**    **[Atlas 5](#) N22 (AV80)**    **CST-100 Starliner (unmanned test)**

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

**Oct29. 1520UTC**    **[Antares](#) 230**    **[Cygnum](#) OA-12**    **60**

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

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

Oct??    **[Astra Space](#)**    NSLSat-1

Launch site: Kodiak, USA

**Oct??**    **[Electron](#)**    ATL-1; FossaSat\_1, itd

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

**Oct??**    **[KZ-1A](#) (Y11)**    ??

Launch site: [Jiuquan](#), China

Oct??    **[KZ-1A](#) (Y9?)**    Xingyun-2 1,2

Oct??    **[CZ-3A](#)**    **[Beidou 3](#) I3Q**

**Oct??**    **[CZ-2C](#)**    **Yaogan Weixing – 30 Group 6**

??    **[Electron](#)**    Dove / Flock-y

??    **[Soyuz-2-1V](#)**    ??Rodnik S

**Nov04.**    **[Falcon 9](#)**    **Starlink v1 Flight 2**

**Nov11.**    **[Falcon 9](#)**    **JCsat 18**

**Nov19.**    **[Electron](#)**    **ElaNa; Andesite**

**Nov22.**    **[Ariane 5](#)**    **Inmarsat-5 F5**    **(GX-5)**

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

Nov??    **[Rokot / Briz KM](#)**    **[Gonets](#) x 3 (No 24,25,26), Blits-M**

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



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Nov??	<a href="#">CZ-2D</a>	ETRSS-1 (Ethiopian multi-spectral Remote Sensing Satellite)	
Nov??	<a href="#">Falcon 9</a>	Anasis II	
Nov??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glomass K1 15 (59?)	
Nov??	<a href="#">CZ-4B</a>	CBERS-4° A	
??	Kuaizhou-1A ( <a href="#">KZ-1A</a> )	Hainan-1 (1), Hainan-1 (2), Hainan-1 (3)	
??	<a href="#">Falcon 9</a>	SiriusXM SX7	40
??	Minotaur IV	NROL 129	
<b>Dec04.</b>	<a href="#">Falcon 9 FT</a>	<a href="#">Dragon SpX-19</a>	
<b>Dec06.</b>	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 13</a>	
<b>Dec17.</b>	<a href="#">Soyuz ST B/Fregat-MT</a> (Characterising ExOPlanet Satellite)	Cosmo-SkyMed Secon Gen 1	CSG-1 / CHEOPS
<b>Dec19.</b>	<a href="#">Soyuz-2-/Fregat-MT</a> Launch site: <a href="#">Kourou</a> , French Guiana	OneWeb smalsat (x34)	
<b>Dec20.</b>	<a href="#">CZ-5 Y3</a> Launch site: <a href="#">Wenchang</a> , China	SJ-20 (DFH-5 platform)	
<b>Dec30.</b>	<a href="#">Atlas 5 422 (AV082) CST-100 Starliner</a> CDR: Michael <b>Fincke</b> , Chris <b>Ferguson</b> , Nicole Aunapu <b>Mann</b>		
<b>Dec30.</b>	<a href="#">Falcon 9 (SPx-DM2)</a> CDR: Robert <b>Benkhen</b> , Doug <b>Hurley</b>	<a href="#">Dragon v2</a>	
Dec??	<a href="#">Proton-M/Briz-M</a>	Elektro L – 3	
Launch site:	<a href="#">Baikonur</a> (Baikonur) Cosmodrome, Kazakhstan		
Dec??	Cosmic Girl / LauncherOne	Test Launch	
Launch site:	<a href="#">Spaceport America</a> , USA		
Dec??	<a href="#">Soyuz-2-1B/Fregat</a>	Glomass K2 / 13	
Dec??	<a href="#">CZ-3B/YZ-1</a>	<a href="#">Beidou 3</a> MEO M21, <a href="#">Beidou 3</a> MEO M22	
Dec??	<a href="#">Soyuz-2-1B</a>	Pion	
Dec??	SSLV D1	Two defence sats	
Dec??	<a href="#">CZ-2D</a>	CAS 6	
Dec??	<a href="#">GSLV MK II</a> F12	GISAT -1	
??	<a href="#">Atlas 5</a> 551	AFSPC-7 (X-37B OTV 6)	
??	<a href="#">Atlas 5</a> 551	Asteroid Retrieval Spacecraft (ARS)	
??	??	EX-3	
??	<a href="#">Soyuz-2-</a>	Razdan 1	20
??	<a href="#">Proton-M/Briz-M</a>	Kosmos	
??	<a href="#">Soyuz-2</a> 1A	Energiya-100	
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat-M</a>	Tundra 4	
??	<a href="#">Soyuz-2-1B/Fregat</a> M	Meridian 19L	



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?? CZ FY-4B Fengyun-4B

?? [CZ-2C](#) HY-1D Haiyang-1D

?? [CZ-4B](#) HY-2C Haiyang-2C

?? CZ-6A HY-2D Haiyang-3A

?? CZ CBERS-SAR 1

?? CZ-?? [CAS-4A, CAS-4B](#)

Launch site: [Taiyuan](#), China

?? KZ-11 Xiaoxiang-4 Jilin-1 (2A), gamma ray burst detection micro satellite, Yinhe, Xianrikui-1A, Xianrikui-1B, Yijian Duoxing, Xingyun-1 (01,02)

?? [KZ-1A](#) Jilin 1-10

?? [KZ-1A](#) Jilin 1-11

?? [KZ-1A](#) Jilin 1-12

?? [CZ-2D](#) GF-7 Gaofen-7

?? [CZ-11](#) Fengtai Shaonian-02

?? [CZ-3B/E](#) Apstar-6D

Launch site: [Xichang](#), China

?? [H-IIA](#) IGS Optical-7

?? [H-IIA](#) JDRS-1

10 + 7

65 + 65

## 2020.

**Jan15.** [Ariane 5](#) ECA [Eutelsat BB4A](#) (African Broadband Satellite) [GSAT 30](#)

Jan?? [Falcon 9](#) [Dragon](#) SpX-20

Jan?? [Falcon 9](#) GPS IIIA-3

Jan?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x32)

?? [Vega](#) SSMS POC (Small Spacecraft Mission Service Proof Of Concept)

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

?? [PSLV](#) C48 - XL RISAT-2BR1

?? [PSLV](#) RISAT\_1A

?? [PSLV](#) IRNSS-1J

?? [PSLV](#) RISAT-2BR2

?? [GSLV](#) GISAT -2

?? [PSLV](#) HRSAT

**Feb05.** [Atlas 5](#) [Solar Orbiter](#) (SoIo) (ESA) 140

**Feb07.** [Antares](#) 230 [Cygnum](#) OA-13

Feb?? [CZ-3B/YZ-1](#) [Beidou 3](#) 2GQ



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Feb?? [GSLV](#) GSAT - 32  
 Feb?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x32)  
 Feb?? [Falcon 9](#) SAOCOM-1B, SAOCOM-1C

?? [Soyuz-2](#) 1A [Bars-M](#) 3  
 Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x32)  
 ?? [Ariane 5](#) ECA Eutelsat Quantum  
 ?? SSLV D2 Demo 2  
 ?? [Proton-M/Briz-M](#) Ekspress 80, Ekspress 103  
 ?? [Soyuz-2](#)-1B/ [Fregat](#)-M Glonass M 59  
 ?? [Vega](#) Falcon Eye 2  
 ?? [Angara](#) A5/ Briz M Kosmos  
 ?? CZ-4C FY-3E Fengyun-3E  
 ?? [Ariane 5](#) JCSat 17

**Mar20.Soyuz 2-1A [Soyuz MS 16 \(S62/63\)](#)**  
 CDR: Николай Владимирович **Тихонов (Nikolai Tikhonov)**, Андрей Николаевич **Бабкин (Andrei Babkin)**, Hoshide

Mar?? [Delta IV-](#) DMSP-5D3 F20  
 Mar?? [Soyuz-2](#)-1B/[Fregat](#)-M Glonass K1 / 22  
 Mar?? [Atlas 5](#) 551 AFSPC-12 (WFOV (Wide Field of View Testbed missile-warning satellite)) **120**  
 Mar?? [Atlas 5](#) 551 (AV-086) AEHF-6

?? [Safir 1 B](#) Nahid-1  
 Launch site: [Semnan](#), Iran

?? [Ariane 5](#) Galaxy 30 / MEV-2  
 ?? [Ariane 5](#) ECA GEO-KOMPSAT-2B , Cheollian 2B  
 ?? [Soyuz-2](#)-1B/[Fregat](#)-M Glonass M 60  
 ?? - inaugural flight - Vega-C - Kourou ZLV  
 ?? [Vega](#) OpSis  
 ?? [Proton-M/Briz-M](#) Inmarsat-6 F2

**Apr16. [Soyuz-2](#) [Progress MS 14](#)**

Apr?? [CZ-3B](#)/YZ-1 [Beidou 3](#) MEO M23, [Beidou 3](#) MEO M24  
 Apr?? Angara-1.2/AM [Gonets](#) x 3 (No 30,31,32)  
 Apr?? [CZ-5](#) B Test flight

?? [Vega](#) CCERES (x3)  
 ?? [Vega](#) SSMS - 2 (Small Spacecraft Mission Service)

May?? [Falcon 9](#) [Dragon v2](#) (USCV-1)  
 Cdr: Victor **Glover**, Mike **Hopkins**, Soichi **Noguchi**

May?? Ariane 62 CSO-2  
 May?? [H-2B](#) (F10) [HTV9](#)  
 May?? [Falcon 9](#) GPS IIIA-4

June?? [Ariane 5](#) MTG-S1/Sentinel-4A  
 June?? [CZ-3C](#) [Beidou 3](#) G3Q **100**  
 June?? Vega\_C Space Rider flight 1



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June??	<a href="#">Atlas 5</a> 551	AFSPC-8 (GSSAP 5, GSSAP 6)	
June??	<a href="#">Delta IV-H</a>	NROL-44	
June??	<a href="#">Ariane 5</a> ECA	GSAT-20	
??	<a href="#">Vega</a>	Seosat (Ingenio)	
<b>July15.</b>	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 15</a>	
<b>July16</b>	<b>Ariane 62</b>	<b>OneWeb</b>	
<b>July17. 1300UTC</b>	<a href="#">Atlas 5</a> (541)	<a href="#">Mars 2020 rover</a>	
<b>July23.</b>	<a href="#">CZ-5</a> Y4	<a href="#">Mars probe</a> (orbiter + lander + rover)	
<b>July25.</b>	<a href="#">Proton-M/Briz-M</a>	<b>ExoMars (CM+DM)</b> 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.	
July??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glonass K2 / 14	
July??	<a href="#">Soyuz-2-1B / Fregat</a>	Arktika-M	
July??	CZ-6A	Satellologic (1-13)	
??	Vega-C Pleiades Neo 1, Pleiades Neo 2		
??	<a href="#">Ariane 5</a>	ViaSat 3 EMEA	
Aug??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-21	
Aug??	<a href="#">Atlas 5</a> 551	<a href="#">NROL-111</a>	
Sep??	CZ	CBERS-6	
Sep??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glonass K2 / 15	
Sep??	<a href="#">Falcon 9</a>	GPS IIIA-5	80
Sep??	<a href="#">Atlas 5</a> 552	Dream Chaser Cargo System SNC-1	
Sep??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 16	
Sep??	??	GOES-T (National Security Space Launch program)	
Sep??	<a href="#">Delta IV-H</a>	NROL-82	
<b>Oct21.</b>	<b>Soyuz 2-1A</b>	<a href="#">Soyuz MS 17 (S63/64)</a>	
	CDR: <b>Иванишин (Ivanishin), Вагнер (Vagner), Christopher J. Cassidy</b>		
Oct??	Vega	Proba 3	
Oct??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat-M</a>	<a href="#">Gonets</a> x 3 (No 27,28,29)	
Oct??	CZ-5B Y1	New generation manned spacecraft	
??	<a href="#">Falcon 9</a>	SARah 1	
??	<a href="#">Angara</a> A5/ DM 03(Persei)	Kosmos	
<b>Nov06.</b>	<a href="#">Proton-M</a>	<b>MLM</b>	
Nov??	<a href="#">Atlas 5</a> 402	CST 100 Starliner (USCV-2)	
	Cdr: John <b>Cassada</b> , Sunita <b>Williams</b> ,		
Nov??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 15	
Nov??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat-M</a>	Resurs N°4	
??	SLS-1	Orion (unmanned trip around the Moon)	Exploration Mission 1 (Distant Retrograde Orbit (DRO) Tactical DRM



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**Dec04.**      [CZ-5](#)    **Y5**      **Chang'e-5 (Sample return)**

**Dec15.**      [Atlas 5](#)      **Landsat 9**

Dec?? 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).

Dec??      [Soyuz-2](#)      [Progress MS](#) 17

??	??	PACE	60
??	??	EX-4	
??	??	ACE	
??	??	HyspIRI	
??	Antares	IMAP/STP-05	

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

??	<a href="#">Falcon H</a>	ViaSat 3
??	<a href="#">Falcon 9</a>	KPLO (Korea Pathfinder Lunar Orbiter)

??	<a href="#">Atlas 5</a> 551	STP-03
??	Minotaur 1	NROL 111

??      [Soyuz-2](#) 1B      Progress M-UM

??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Glonass K1 / 16
??	<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	Meteor M No2-3
??	<a href="#">Angara</a> 1.2	Kompsat-6
??	<a href="#">Soyuz-2</a> -1A/ <a href="#">Fregat</a> -M	<a href="#">Gonets</a> x 6

??	<a href="#">Proton-M/Briz-M</a>	Anik G2V
??	<a href="#">Proton-M/Briz-M</a>	Space Drone x2
??	<a href="#">Proton-M/Briz-M</a>	Luch-5VM 1
??	<a href="#">Proton-M/Briz-M</a>	Luch-5VM 2

??      [Soyuz-2](#)-1A/[Fregat](#)      Resonance 1A, Resonance 1B      RESONANCE is a project to study Earth's magnetosphere consisting of four similar satellites.      40

??	<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

??      [Angara](#) 1.2      Kosmos

??      [Zenit 3 SL](#) /[Fregat](#)-SB      Lybid'



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

??	<a href="#">Ariane 5</a>	Arsat 3	
??	<a href="#">Ariane 5</a>	ViaSat-3 Asia	
??	<a href="#">Ariane 5</a> ECA	EDRS-D	
??	<a href="#">Ariane 5</a> ECA	Star One D2	
??	??	Seosat-Ingenio-2	
??	<a href="#">Vega</a> C Cosmo-SkyMed Secon Gen 2	CSG-2	
??	CZ	Two Meter Space Telescope	
??	CZ	FY-4C Fengyun-4C	
??	CZ	HY-3B Haiyang-3B	20
??	<a href="#">CZ-3B/</a> Palapa 1N		
??	<a href="#">CZ-11</a>	CAS 5, 5B	
??	??	Hainan-1 (4)	
??	??	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 Shijan-19	
??	<a href="#">GSLV</a> MK II F11	GSAT-10A	

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

??	<a href="#">PSLV</a>	ScatSat, NovaSAR	
??	<a href="#">PSLV</a>	EnMap	
??	<a href="#">PSLV</a> XL	<a href="#">Aditya'</a>	
??	<a href="#">H-IIA</a>	<a href="#">Hope</a> (UAE mission to Mars)	
??	<a href="#">H-IIA</a>	Astro H2 (Hitomi-2), SLIM (Smart Lander for Investigating Moon)	
??	<a href="#">H-IIA</a>	Inmarsat-6 F1	
??	<a href="#">Safir 1 B</a>	Tadbir	
??	Safir 3A	Pars sepher	

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## 2021.

Feb??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 18
Feb??	<a href="#">Falcon 9</a>	GPS IIIA-6
Feb??	<a href="#">Falcon H</a>	AFSPC-44

**Mar30.**      [Soyuz-2-1A](#)                      [Soyuz MS](#) 18



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Cdr: **Рыжиков, Кудь-Сверчков**

**Mar31. Ariane 5 ES**

**JWST (James Webb Space Telescope)**

Mar?? [Atlas 5](#) 411

SBIRS-GEO 5

Apr?? Ariane 62

Galileo-FOC FM23, Galileo-FOC FM24

Apr?? [Falcon 9](#)

IXPE (Imaging X-ray Polarimetry Explorer)

May?? [Falcon 9](#)

[Dragon v2](#) USCV-3 (US Commercial Vehicles)

CDR: **Lindgren**, ??(NASA), ??(RF)

?? [CZ-5B](#) Y2 Tian He Space Station Core Module

?? CZ-2F/G SZ-13 Shenzhou-13

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

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](#)

DART (Double Asteroid Redirection Test)

?? CZ7

TZ 2 Tianzhou 2 (Logistic Cargo Vehicle)

?? CZ-2F/G

SZ-12 Shenzhou-12

?? [Soyuz-2](#)

[Progress MS](#) 19

?? Ariane 62

Galileo-FOC FM25, Galileo-FOC FM26

July?? Vulcan/Minotaur 6/[Falcon 9](#) v1.1 JPSS-2

July?? [Vega](#) C Biomass

July?? [Soyuz-2](#) 1a / [Fregat](#) Luna 25 (Luna-Glob-1)

July?? GSLV-Mk III. Gaganyaan-2

?? [Soyuz ST](#) B/[Fregat](#)-MT EarthCare

**Sep30. [Soyuz-2-1A](#)**

**[Soyuz MS 18](#)**

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

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

**Lucy**

Oct?? [Atlas 5](#) 401/[Falcon 9](#) v1.1 JPSS Free Flyer 2 (TSIS-2)

Oct?? Ariane 62 CSO-3

Nov?? [Atlas 5](#) 402 USCV-4 (US Commercial Vehicles)

Dec?? [Vega](#) C KOMPSAT 7

Dec?? GSLV-Mk III. Gaganyaan-3

Dec?? [Falcon 9](#) NROL-85 Intruder 13A713B

Dec?? [Falcon 9](#) NROL-87

?? [Ariane 5](#)

MTG-I1





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??	<a href="#">Atlas 5</a> 552	Dream Chaser Cargo System SNC-2
??	<a href="#">Falcon 9</a>	GPS IIIA-7
??	<a href="#">Falcon 9</a>	GPS IIIA-8
??	<a href="#">Soyuz-2</a> <a href="#">Progress MS</a> 20	
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Transformable Modul    TM
??	<a href="#">Proton-M</a>	НЭМ-1
??	<a href="#">Proton-M/Briz-M</a>	Ekspress AMU 3 / Ekspress AMU 7
??	<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>	EutelSat
??	<a href="#">Proton-M/Briz-M</a>	Ямал-GK-1
??	<a href="#">Proton-M</a>	PTK NP
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Meteor M No2-4
??	<a href="#">Angara</a> 1.2	<a href="#">Gonets</a> x 3
??	<a href="#">Proton-M/Briz-M</a>	Ekspress-RV1, Ekspress-RV2
??	<a href="#">Proton-M/Briz-M</a>	Ekspress AMU 4
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Smotr R №1
??	<a href="#">Proton-M/Briz-M</a>	IntelSat
??	<a href="#">Proton-M/Briz-M</a>	Elektro L - 4
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Arktika M 2
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Kondor-FKA n.º 2
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat-M</a>	Resurs №5
??	<a href="#">Angara</a> A5/ <a href="#">Briz-M</a>	Luch 5M
??	<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</a> B/ <a href="#">Fregat-MT</a>	CSO 2 (Composante Spatiale Optique-2)
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat-MT</a>	OneWeb smalsat (x32)
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat-MT</a>	OneWeb smalsat (x32)
??	<a href="#">Vega C</a> Space Rider 2	
??	<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)

## 2022.

Jan??	??	Solar Sentinels
??	<a href="#">Soyuz-2</a> <a href="#">Progress MS</a> 21	
??	<a href="#">CZ-5</a> B	Wentian Lab module    Space station module



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**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.

**Mar30.** [Soyuz-2-1A](#) [Soyuz MS 19](#)

Mar?? [Atlas 5](#) NROL-107 Silentbaker  
 ?? 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)**

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

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

June?? Ariane 5 MTG-I2  
 ?? Sunkar ??  
 ?? [Soyuz-2](#) [Progress MS 20](#)  
 Aug?? H2B Phobos sample return  
 Aug?? [Atlas 5](#) 411 SBIRS-GEO 6

**Sep30.** [Soyuz-2-1A](#) [Soyuz MS 20](#)

Nov?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-6 (US Commercial Vehicles)  
 Dec?? [Soyuz ST B](#)/[Fregat](#)-MT MetOp-SG B1  
 Dec?? [Vega C](#) FLEX (Fluorescence Explorer satellite)  
 Dec?? [Delta IV-H](#) NROL-68  
 ?? Sunkar Federatsia (unmaned)  
 ?? [Soyuz-2](#) [Progress MS 21](#)  
 ?? [Falcon 9](#) GPS IIIA-9/GPS IIIB-1  
 ?? [Falcon 9](#) GPS IIIA-10/GPS IIIB-2  
 ?? [Proton-M/Briz-M](#) Ekspress – AMU 5  
 ?? [Proton-M/Briz-M](#) Ekspress – AMU 6  
 ?? [Proton-M/Briz-M](#) Ekspress – RV 3, Ekspress – RV 4  
 ?? [Angara 1.2](#) [Gonets](#) x 3  
 ?? [Proton-M/Briz-M](#) Eutelsat  
 ?? [Proton-M/Briz-M](#) Intelsat  
 ?? [Soyuz-2-1B/Fregat-M](#) Smotr R №2



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?? [Soyuz-2-](#) Razdan 2  
 ?? [Proton-M/Briz-M](#) Elektro L - 5  
 ?? [Soyuz-2-1B/Fregat-M](#) Resurs PM - 1

?? [Ariane 5](#) Moon's south pole samples return mission  
 ?? [Ariane 5](#) Comsat NG 2 (Syracuse 4B)

?? [Vega](#) C Space Rider 3  
 ?? [Vega](#) C CryoSat FO

?? CZ HY-3C Haiyang-3C

## 2023.

?? [Soyuz-2](#) [Progress MS 22](#)

**Mar30.** [Soyuz-2-1A](#) [Soyuz MS 21](#)

May?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-7 (US Commercial Vehicles)

?? CZ7 TZ 5 Tianzhou 5 (Logistic Cargo Vehicle)  
 ?? CZ-2F/G SZ-16 Shenzhou-16

?? [Soyuz-2](#) [Progress MS 23](#)  
 ?? [Ariane 5](#) MTG-S2/Sentinel-4A

**Sep30.** [Soyuz-2-1A](#) [Soyuz MS 22](#)

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

?? [Soyuz-2](#) [Progress MS 24](#)

?? SLS Block IA II Orion: Exploration Mission 3 (Crew to Cislunar)

?? Sunkar Federatsia (unmanned flight to ISS)

?? A Russian [Proton/Briz-M](#) (or Angara) rocket to launch the [Laplas-P](#) mission to orbit the moon of Jupiter Ganymede.

?? [Proton-M/Briz-M](#) Ekspres – AT3, AT4

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

?? [Angara](#) 1.2 [Gonets](#) x 3

?? [Soyuz-2-1B](#) Obzor R -2

?? [Soyuz-2-1B](#) Obzor O -1

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

?? [Angara](#) A5P/DM03 Dopler 1, 2

?? [Soyuz-2-1B/Fregat-M](#) Meteor M No2-5

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

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

?? [Vega](#) C Space Rider 4

?? [Soyuz ST](#) B/[Fregat-MT](#) Sentinel-1C

?? CZ SPORT (Solar Polar Orbit Radio Telescope)

?? CZ FY-4D Fengyun-4D



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??	CZ	Chang'e-7 (Moon south pole landing)
??	<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)
<b>2024</b>		
Jan??	<a href="#">Delta IV</a> -H	NROL-70
<b>Mar30.</b>	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS 23</a>
May??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-9 (US Commercial Vehicles)
??	CZ7	TZ 6 Tianzhou 6 (Logistic Cargo Vehicle)
<b>Sep30.</b>	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS 24</a>
Sep??	<a href="#">GSLV</a> MK III	Mangalyaan – 2 Mars Orbiter
Oct??	EELV	GOES-U
Nov??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-10 (US Commercial Vehicles)
??	SLS Block IA II	Orion: Exploration Mission 4 (Crew to Cislunar)
??	Sunkar	Federatsia (Light 14t – 2 man to ISS)
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 25</a>
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 26</a>
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 27</a>
??	<a href="#">Soyuz-2</a> 1b	Luna 27 (Luna-Resurs PA) Testing an adaptive landing mode with a radio-beacon; delivering a rover
??	<a href="#">Proton-M</a> / DM-03	Spektr - UF
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Resurs PM - 4
??	<a href="#">Angara</a> 1.2	<a href="#">Gonets</a> x 2, Gonets M
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Arktika M 4
??	??	Ямал GK VEO 1
??	<a href="#">Soyuz-2</a> -1A	Obzor P -1
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Razdan - 3
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	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



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

## 2025

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

Nov?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-12 (US Commercial Vehicles)

?? SLS Block IA II Orion: Exploration Mission 5 (Crew to Cislunar)

?? [Soyuz-2](#)-1A [Soyuz MS](#) 25

?? SLS Block I Europa Clipper

?? [Soyuz-2](#) 1b Luna28 (Luna-Grunt-1) delivering a new-generation rover for gathering, analysis and uploading of samples

?? [Soyuz-2](#)-1B/[Fregat](#)-M Resonans 2A, 2B, MKA-PN5

?? ?? Ямал GK VEO 2

?? ?? Ямал GK VEO 3

?? [Angara](#) 1.2 [Gonets](#) x 3

?? [Soyuz-2](#)-1B/[Fregat](#)-M Arktika M 5

?? [Soyuz-2](#)-1B Obzor O -2

?? [Soyuz-2](#)-1B Bion-M No. 3

## 2026.

May?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-13 (US Commercial Vehicles)

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

June?? [Angara](#) A5P/KVTK A mission to Venus (*Venera D*) would be launched

?? CZ Jupiter Orbiter

?? CZ Mars Sample Return

?? CZ Chang'e-8 (Moon north pole landing)

?? [Angara](#) A5/DM03 Bumerang (FobosGrunt 2)

## 2069.

?? ?? [Interstellar mission](#)