



# Blog Gorana Hudeca

## Predstojeća lansiranja u Svemir (28.10.2019.)

2019.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in **red**. Last change on **28.Oct 2019**.

**Oct29. 0345UTC** **Kuaizhou-1A** **KZ-1A** (Y11) **Jilin 1 Gaofen-02A**

Launch site: [Jiuquan](#), China

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

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

**Nov02. 1359UTC** **Antares** 230 **Cygnus** OA-12

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

**Nov04. 0925UTC** **KZ-1A** (Y7) **KL-Alpha**

Launch site: [Jiuquan](#), China

**Nov07.** **CZ-3A** **Beidou 3** **IGSO-3**

Launch site: [Xichang](#), China

**Nov16.** **PSLV** C47 **CARTOSAT-3, NEMO-AM** , FUSE

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

**Nov22.** **Ariane 5** **Inmarsat-5 F5 (GX-5), TIBA 1**

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

**Nov29.** **Rokot / Briz KM** **Gonets** x 3 (No 24,25,26), **Blits-M**

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

Nov?? [Falcon 9](#) Starlink v1 Flight 2

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

Nov?? [CZ-4B](#) GF-7 Gaofen-7

Nov?? [Falcon 9](#) Starlink v1 Flight 3

Nov?? [CZ-3B/YZ-1](#) [Beidou 3](#) MEO M19, [Beidou 3](#) MEO M20 40

?? [Electron](#) **ATL-1, Discovery, FossaSat-1, NOOR-1A, NOOR-1B, SMOG-P, TRSi Sat**

**Dec02.** **Soyuz-2-1B/Fregat-M** **Glonass M 59**

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

**Dec04. 1800UTC** **Falcon 9** FT **Dragon** SpX-19

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

**Dec06.** **Soyuz-2-1A** **Progress MS** 13

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

**Dec15.** **Falcon 9** **JCsat 18**

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



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**Dec17. 0854UTC [Soyuz ST B/Fregat-MT](#) Cosmo-SkyMed Secon Gen 1CSG-1 / CHEOPS**  
**(Characterising ExOPlanet Satellite)**

**Dec17. 1245UTC [Atlas 5 N22 \(AV80\)](#) CST-100 Starliner (unmanned test)**  
 Launch site: [Cape Canaveral](#), USA

**Dec19. [Soyuz-2-/Fregat-MT](#) OneWeb smalsat (x34)**  
 Launch site: [Kourou](#), French Guiana

**Dec20. [CZ-5 Y3](#) SJ-20 (DFH-5 platform)**  
 Launch site: [Wenchang](#), China

**Dec24. [Proton-M/Briz-M](#) Elektro L – 3**  
 Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

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

Dec??	<a href="#">Soyuz-2-1B/Fregat</a>		Glonass K2 / 13
Dec??	<a href="#">CZ-3B/YZ-1</a>		Beidou 3 MEO M21, Beidou 3 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
Dec??	<a href="#">CZ-4B</a>		CBERS-4° A
Dec??	<a href="#">CZ-2D</a>		ETRSS-1 (Ethiopian multi-spectral Remote Sensing Satellite)

?? [Astra Space](#) NSLSat-1  
 Launch site: Kodiak, USA 20

?? [Soyuz-2-](#) Razdan 1

?? [Proton-M/Briz-M](#) Kosmos

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

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

?? [Soyuz-2-1B/Fregat](#) M Meridian 19L

?? 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 1-11

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



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??	Kuaizhou-1A ( <a href="#">KZ-1A</a> )	Hainan-1 (1), Hainan-1 (2), Hainan-1 (3)
??	<a href="#">CZ-11</a>	Fengtai Shaonian-02
??	<a href="#">CZ-3B/E</a>	Apstar-6D
Launch site: <a href="#">Xichang</a> , China		
??	<a href="#">H-IIA</a>	IGS Optical-7
??	<a href="#">H-IIA</a>	JDRS-1

10 + 5  
70 + 51

## 2020.

**Jan15.** [Ariane 5](#) ECA **Eutelsat BB4A (African Broadband Satellite); GSAT 30**  
**Jan21.** [Electron](#) **ElaNa; Andesite**

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

??	<a href="#">PSLV</a> C48 - XL	RISAT-2BR1
??	<a href="#">PSLV</a>	RISAT_1A
??	<a href="#">PSLV</a>	IRNSS-1J
??	<a href="#">PSLV</a>	RISAT-2BR2
??	<a href="#">GSLV</a>	GISAT -2
??	<a href="#">PSLV</a>	HRSAT

**Feb05.** [Atlas 5](#) [Solar Orbiter \(Solo\)](#) (ESA)

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

**Feb15.** **Minotaur IV** **NROL 129**

Feb?? [CZ-3B/YZ-1](#) [Beidou 3](#) 2GQ  
Feb?? [GSLV](#) GSAT - 32  
Feb?? [Soyuz ST B/Fregat](#)-MT OneWeb smalsat (x32)  
Feb?? [Falcon 9](#) SAOCOM-1B, SAOCOM-1C **140**

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

?? [Atlas 5](#) 422 (AV082) CST-100 Starliner  
CDR: Michael **Fincke**, Chris **Ferguson**, Nicole Aunapu **Mann**

?? [Soyuz ST B/Fregat](#)-MT OneWeb smalsat (x32)  
?? [Ariane 5](#) ECA Eutelsat Quantum  
?? SSLV D2 Demo 2  
?? [Proton-M/Briz-M](#) Ekspres 80, Ekspres 103  
?? [Soyuz-2-1B/ Fregat](#)-M Glonass M 59  
?? [Vega](#) Falcon Eye 2  
?? [Angara](#) A5/ Briz M Kosmos



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?? CZ-4C FY-3E Fengyun-3E  
 ?? [Ariane 5](#) JCSat 17  
 ?? [Falcon 9](#) Anasis II  
 ?? [Falcon 9](#) SiriusXM SX7

## Mar01. [Falcon 9](#) [Dragon SpX-20](#)

Mar?? [Falcon 9](#) (SPx-DM2) [Dragon v2](#)  
 CDR: Robert **Benkhen**, Doug **Hurley**

Mar?? [Delta IV-](#) DMSP-5D3 F20  
 Mar?? [Soyuz-2-1B/Fregat-M](#) Glonass K1 / 22  
 Mar?? [Atlas 5](#) 551 (AV-086) AEHF-6

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

?? [Ariane 5](#) Galaxy 30 / MEV-2 120  
 ?? [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  
 ?? [Atlas 5](#) 551 Asteroid Retrieval Spacecraft (ARS)  
 ?? ?? EX-3

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

**Apr17. Soyuz 2-1A [Soyuz MS 16 \(S63/64\)](#)**  
 CDR: Николай Владимирович **Тихонов** (Nikolai **Tikhonov**), Андрей Николаевич **Бабкин** (Andrei **Babkin**), Christopher John **Cassidy**

Apr?? [CZ-3B/YZ-1](#) [Beidou 3](#) MEO M23, [Beidou 3](#) MEO M24  
 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  
 June?? Vega\_C Space Rider flight 1 100  
 June?? [Atlas 5](#) 551 AFSPC-8 (GSSAP 5, GSSAP 6)  
 June?? [Delta IV-H](#) NROL-44  
 June?? [Ariane 5](#) ECA GSAT-20

?? [Vega](#) Seosat (Ingenio)  
 ?? [CZ-2C](#) Yaogan Weixing – 30 Group 6

## July15. [Soyuz-2](#) [Progress MS 15](#)



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<b>July16</b>	<b>Ariane 62</b>	<b>OneWeb</b>	
<b>July17. 1300UTC</b>	<b><a href="#">Atlas 5</a> (541)</b>	<b><a href="#">Mars 2020 rover</a></b>	
<b>July23.</b>	<b><a href="#">CZ-5</a> Y4</b>	<b><a href="#">Mars probe</a> (orbiter + lander + rover)</b>	
<b>July25.</b>	<b><a href="#">Proton-M/Briz-M</a></b>	<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	Satellogic (1-13)	
??	Vega-C Pleiades Neo 1, Pleiades Neo 2		
??	<a href="#">Ariane 5</a>	ViaSat 3 EMEA	
<b>Aug05.</b>	<b><a href="#">Falcon 9</a> FT</b>	<b><a href="#">Dragon SpX-21</a></b>	
Aug??	<a href="#">Atlas 5</a> 551	NROL-111	
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>Oct14.</b>	<b><a href="#">Soyuz 2-1A</a></b>	<b><a href="#">Soyuz MS 17 (S63/64)</a></b>	
CDR: Анатолій Алексеевич <b>Иванішин (Ivanishin)</b> , Иван Викторович <b>Вагнер (Vagner)</b> , <b>Stephen Bowen</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>	<b><a href="#">Proton-M</a></b>	<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 №4	
<b>Dec04.</b>	<b><a href="#">CZ-5</a> Y5</b>	<b>Chang'e-5 (Sample return)</b>	
<b>Dec15.</b>	<b><a href="#">Atlas 5</a></b>	<b>Landsat 9</b>	
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??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 17	





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??	??	PACE	
??	??	EX-4	60
??	??	ACE	
??	??	HyspIRI	
??	Antares	IMAP/STP-05	
??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> 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	
??	<a href="#">Atlas 5</a> 551	AFSPC-12 (WFOV (Wide Field of View Testbed missile-warning satellite))	
??	<a href="#">Atlas 5</a> 551	AFSPC-7 (X-37B OTV 6)	
??	<a href="#">Soyuz-2</a> 1B	Progress M-UM	
??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a> -M	Meteor M No2-3	
??	<a href="#">Angara</a> 1.2	Kompsat-6	
??	<a href="#">Soyuz-2-1A</a> / <a href="#">Fregat</a> -M	<a href="#">Gonets</a> x 6	
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	Anik G2V	
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	Space Drone x2	
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	Luch-5VM 1	
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	Luch-5VM 2	
??	<a href="#">Soyuz-2-1A</a> / <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-2-1B</a>	Lotos S1	40
??	<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</a> / <a href="#">Fregat</a> -M	Kondor-FKA n.º 1	
??	<a href="#">Soyuz-2-1B</a>	Obzor R -1	
??	??	Zond	
??	??	MKA PN6 (Monika)	
??	??	Картограф-ОЭ №1	
??	<a href="#">Angara</a> 1.2	Kosmos	
??	Angara-1.2/AM <a href="#">Gonets</a> x 3 (No 30,31,32)		
??	<a href="#">Zenit 3 SL</a> / <a href="#">Fregat</a> -SB	Lybid'	
Launch site: Байконур ( <a href="#">Baikonur</a> ) 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	



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??	<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: <a href="#">Satish Dhawan Space Centre</a> , 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](#)  
 Cdr: Сергей Николаевич **Рыжиков**, Сергей Владимирович **Кудь-Сверчков**

## Mar31. [Ariane 5](#) ES **JWST (James Webb Space Telescope)**

Mar??	<a href="#">Atlas 5</a> 411	SBIRS-GEO 5
Apr??	Ariane 62	Galileo-FOC FM23, Galileo-FOC FM24
Apr??	<a href="#">Falcon 9</a>	IXPE (Imaging X-ray Polarimetry Explorer)



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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)

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

?? 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](#)  
 CDR: Олѐг Вікторович **Новіцкий**, Пѐтр Валерьевич **Дубров**

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

?? [Atlas 5](#) 552 Dream Chaser Cargo System SNC-2

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





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??	<a href="#">Falcon 9</a>	GPS IIIA-8
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 20</a>
??	<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>	РТК NP
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Meteor M No2-4
??	<a href="#">Angara 1.2</a>	<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 1B /Fregat-M</a>	Resurs №5
??	<a href="#">Angara A5/ Briz-M</a>	Luch 5M
??	<a href="#">Soyuz-2 1B /Fregat-M</a>	Glonass K1 / 16
??	<a href="#">Soyuz-2 1B /Fregat-M</a>	Glonass K1 / 17
??	<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 ST B/Fregat-MT</a>	OneWeb smalsat (x32)
??	<a href="#">Soyuz ST B/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 21</a>
??	<a href="#">CZ-5 B</a>	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 ICy 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](#)