



# Blog Gorana Hudeca

## Predstojeća lansiranja u Svemir (21.10.2019.)

2019.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in **red**. Last change on **21.Oct 2019**.

Oct?? [Soyuz-2-1A/Fregat](#) 14F01 (Neutron)  
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

Oct?? Kuaizhou-1A [KZ-1A](#) (Y11) **Jilin 1 Gaofen-02A**  
Launch site: [Jiuquan](#), China

**Nov02. 1359UTC** [Antares 230](#) [Cygnum OA-12](#)  
Launch site: [Wallops Island, USA](#)

**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?? [Falcon 9](#) Anasis II  
Nov?? [CZ-4B](#) GF-7 Gaofen-7  
Nov?? [Falcon 9](#) Starlink v1 Flight **3**  
Nov?? [KZ-1A](#) (Y7) **KL-Alpha**  
Nov?? [CZ-3B/YZ-1](#) [Beidou 3 MEO M19](#), [Beidou 3 MEO M20](#)

?? [Electron](#) Dove / Flock-y  
?? [CZ-3A](#) [Beidou 3 I3Q](#) **40**

**Dec01.** [Soyuz-2](#) [Progress MS 13](#)

**Dec04. 1800UTC** [Falcon 9 FT](#) [Dragon SpX-19](#)  
Launch site: [Cape Canaveral](#), USA

**Dec05.** [Soyuz-2-1B/Fregat-M](#) **Glonass M 59**  
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

**Dec15.** [Falcon 9](#) **JCsat 18**  
Launch site: [Cape Canaveral](#), USA

**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



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<b>Dec19.</b>	<a href="#">Soyuz-2-/Fregat-MT</a>	<b>OneWeb smalsat (x34)</b>
Launch site: <a href="#">Kourou</a> , French Guiana		
<b>Dec20.</b>	<a href="#">CZ-5 Y3</a>	<b>SJ-20 (DFH-5 platform)</b>
Launch site: <a href="#">Wenchang</a> , China		
<b>Dec24.</b>	<a href="#">Proton-M/Briz-M</a>	<b>Elektro L – 3</b>
Launch site: Байконур ( <a href="#">Baikonur</a> ) Cosmodrome, Kazakhstan		
Dec??	Cosmic Girl / LauncherOne	Test Launch
Launch site: <a href="#">Spaceport America</a> , USA		
Dec??	<a href="#">Soyuz-2-1B/Fregat</a>	Glonass 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</a> MK II F12	GISAT -1
Dec??	<a href="#">CZ-4B</a>	CBERS-4 <sup>o</sup> A
Dec??	<a href="#">CZ-2D</a>	ETRSS-1 (Ethiopian multi-spectral Remote Sensing Satellite)
??	<a href="#">Falcon 9</a>	SiriusXM SX7
??	<a href="#">Astra Space</a>	NLSat-1
Launch site: Kodiak, USA <span style="float: right;">20</span>		
??	<a href="#">Soyuz-2-</a>	Razdan 1
??	<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</a> -M	Tundra 4
??	<a href="#">Soyuz-2-1B/Fregat</a> M	Meridian 19L
??	CZ	FY-4B Fengyun-4B
??	<a href="#">CZ-2C</a>	HY-1D Haiyang-1D
??	<a href="#">CZ-4B</a>	HY-2C Haiyang-2C
??	CZ-6A	HY-2D Haiyang-3A
??	CZ	CBERS-SAR 1
??	CZ-??	<a href="#">CAS-4A, CAS-4B</a>
Launch site: <a href="#">Taiyuan</a> , 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)
??	<a href="#">KZ-1A</a>	Jilin 1-11
??	<a href="#">KZ-1A</a>	Jilin 1-12
??	Kuaizhou-1A ( <a href="#">KZ-1A</a> )	Hainan-1 (1), Hainan-1 (2), Hainan-1 (3) 40
??	<a href="#">CZ-11</a>	Fengtai Shaonian-02



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?? [CZ-3B/E](#) Apstar-6D  
Launch site: [Xichang](#), China

?? [H-IIA](#) IGS Optical-7  
?? [H-IIA](#) JDRS-1

10 + 7  
70 + 53

## 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

?? [PSLV](#) C48 - XL RISAT-2BR1  
?? [PSLV](#) RISAT\_1A  
?? [PSLV](#) IRNSS-1J  
?? [PSLV](#) RISAT-2BR2  
?? [GSLV](#) GISAT -2  
?? [PSLV](#) HRSAT

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

**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

?? [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](#) 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

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



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Mar??	<a href="#">Falcon 9</a> (SPx-DM2)	<a href="#">Dragon v2</a>	
CDR: Robert <b>Benkhen</b> , Doug <b>Hurley</b>			
Mar??	<a href="#">Delta IV-</a>	DMSP-5D3 F20	
Mar??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glonass K1 / 22	120
Mar??	<a href="#">Atlas 5</a> 551 (AV-086)	AEHF-6	
??	<a href="#">Safir 1 B</a>	Nahid-1	
Launch site: <a href="#">Semnan</a> , Iran			
??	<a href="#">Ariane 5</a>	Galaxy 30 / MEV-2	
??	<a href="#">Ariane 5</a> ECA	GEO-KOMPSAT-2B , Cheollian 2B	
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glonass M 60	
?? - inaugural flight - Vega-C - Kourou ZLV			
??	<a href="#">Vega</a>	OpSis	
??	<a href="#">Proton-M/Briz-M</a>	Inmarsat-6 F2	
??	<a href="#">Atlas 5</a> 551	Asteroid Retrieval Spacecraft (ARS)	
??	??	EX-3	
<b>Apr16.</b>	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 14</a>	
<b>Apr17.</b>	<a href="#">Soyuz 2-1A</a>	<a href="#">Soyuz MS 16 (S63/64)</a>	
CDR: Николай Владимирович <b>Тихонов</b> (Nikolai <b>Tikhonov</b> ), Андрей Николаевич <b>Бабкин</b> (Andrei <b>Babkin</b> ), Christopher John <b>Cassidy</b>			
Apr??	<a href="#">CZ-3B/YZ-1</a>	<a href="#">Beidou 3</a> MEO M23, <a href="#">Beidou 3</a> MEO M24	
Apr??	<a href="#">CZ-5</a> B	Test flight	
??	<a href="#">Vega</a> CCERES (x3)		
??	<a href="#">Vega</a>	SSMS – 2 (Small Spacecraft Mission Service)	
May??	<a href="#">Falcon 9</a>	<a href="#">Dragon v2</a> (USCV-1)	
Cdr: Victor <b>Glover</b> , Mike <b>Hopkins</b> , Soichi <b>Noguchi</b>			
May??	Ariane 62	CSO-2	
May??	<a href="#">H-2B</a> (F10)	<a href="#">HTV9</a>	
May??	<a href="#">Falcon 9</a>	GPS IIIA-4	
June??	<a href="#">Ariane 5</a>	MTG-S1/Sentinel-4A	
June??	<a href="#">CZ-3C</a>	<a href="#">Beidou 3</a> G3Q	100
June??	Vega_C	Space Rider flight 1	
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)	
??	<a href="#">CZ-2C</a>	Yaogan Weixing – 30 Group 6	
<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)	



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**July25.** [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.

July??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glomass 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	
Aug??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-21	
Aug??	<a href="#">Atlas 5</a> 551	NROL-111	
Sep??	CZ	CBERS-6	
Sep??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glomass K2 / 14	80
Sep??	<a href="#">Falcon 9</a>	GPS IIIA-5	
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	

**Oct21.** **Soyuz 2-1A** [Soyuz MS 17 \(S63/64\)](#)  
 CDR: Анатолій Алексєевич **Иванішин (Ivanishin)**, Иван Викторович **Вагнер (Vagner)**, ??

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	

**Nov06.** [Proton-M](#) **MLM**  
 Nov?? [Atlas 5](#) 402 CST 100 Starliner (USCV-2)  
 Cdr: John **Cassada**, Sunita **Williams**,

Nov?? [Soyuz-2](#) [Progress MS](#) 15  
 Nov?? [Soyuz-2](#) 1B /[Fregat-M](#) Resurs N°4

**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??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 17	
??	??	PACE	60
??	??	EX-4	
??	??	ACE	
??	??	HyspIRI	
??	Antares	IMAP/STP-05	





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??	<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/Fregat-M</a>	Meteor M No2-3	
??	<a href="#">Angara</a> 1.2	Kompsat-6	
??	<a href="#">Soyuz-2-1A/Fregat-M</a>	<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	
??	<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	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/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="#">Angara</a> 1.2	Kosmos	
??	Angara-1.2/AM <a href="#">Gonets</a> x 3 (No 30,31,32)		
??	<a href="#">Zenit 3 SL /Fregat-SB</a>	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	
??	<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		



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??	<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 Shijian-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 18</a>
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-Сверчкóв**

## 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)
May??	<a href="#">Falcon 9</a>	<a href="#">Dragon v2</a> USCV-3 (US Commercial Vehicles)
CDR: <b>Lindgren</b> , ??(NASA), ??(RF)		

??	<a href="#">CZ-5B</a> Y2	Tian He Space Station Core Module
??	CZ-2F/G	SZ-13 Shenzhou-13
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	CAS500-1



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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.

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: Олэг Вікторович **Новіцкий**, Пётр 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  
?? [Falcon 9](#) GPS IIIA-8

?? [Soyuz-2](#) [Progress MS](#) 20  
?? [Soyuz-2-1B/Fregat](#)-M Transformable Modul TM

?? [Proton-M](#) HЭM-1  
?? [Proton-M/Briz-M](#) Ekspress AMU 3 / Ekspress AMU 7





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??	<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 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

## 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.



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<b>Mar30.</b>	<b><a href="#">Soyuz-2-1A</a></b>	<b><a href="#">Soyuz MS 19</a></b>
Mar??	<a href="#">Atlas 5</a>	NROL-107 Silentbaker
??	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 5ECA</a></b>	<b>JUICE (JUperiter ICy moon Explorer)</b>
May??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-5 (US Commercial Vehicles)
<b>June04.</b>	<b>SLS Block I</b>	<b>Orion: Exploration Mission 2 (Crew to Cislunar) Mission)</b>
June??	Ariane 5	MTG-I2
??	Sunkar ??	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 20</a>
Aug??	H2B	Phobos sample return
Aug??	<a href="#">Atlas 5</a> 411	SBIRS-GEO 6
<b>Sep30.</b>	<b><a href="#">Soyuz-2-1A</a></b>	<b><a href="#">Soyuz MS 20</a></b>
Nov??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-6 (US Commercial Vehicles)
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
??	Sunkar Federatsia (unmaned)	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 21</a>
??	<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>	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="#">Angara</a> 1.2	<a href="#">Gonets</a> x 3
??	<a href="#">Proton-M/Briz-M</a>	Eutelsat
??	<a href="#">Proton-M/Briz-M</a>	Intelsat
??	<a href="#">Soyuz-2-1B/Fregat</a> -M	Smotr R №2
??	<a href="#">Soyuz-2-</a>	Razdan 2
??	<a href="#">Proton-M/Briz-M</a>	Elektro L - 5
??	<a href="#">Soyuz-2-1B/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)



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?? [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

?? CZ Chang'e-7 (Moon south pole landing)

?? [GSLV](#) MK III Shukrayaan (Venus orbiter)

?? [Angara](#) A5P/DM03 Lutch 5 – 2

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

?? [Angara](#) A5P/DM03 Lutch 5 – 3



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??	??	Ямал GK 2
??	<a href="#">Soyuz-2 1a</a> / <a href="#">Fregat</a>	<a href="#">Luna 26</a> (Luna-Resurs OA)
<b>2024</b>		
Jan??	<a href="#">Delta IV-H</a>	NROL-70
<b>Mar30.</b>	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS 23</a>
May??	<a href="#">Atlas 5 402</a> / <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 5 402</a> / <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 1b</a>	<a href="#">Luna 27</a> (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-2-1B/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
??	Lapan	Pengorbitan-1 (RPS-01) (Indonesia)
<b>2025</b>		
May??	<a href="#">Atlas 5 402</a> / <a href="#">Falcon 9</a>	USCV-11 (US Commercial Vehicles)
Nov??	<a href="#">Atlas 5 402</a> / <a href="#">Falcon 9</a>	USCV-12 (US Commercial Vehicles)



## Blog Gorana Hudeca

??	SLS Block IA II	Orion: Exploration Mission 5 (Crew to Cislunar)
??	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS 25</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.

May??	<a href="#">Atlas 5 402 / Falcon 9</a>	USCV-13 (US Commercial Vehicles)
Nov??	<a href="#">Atlas 5 402 / Falcon 9</a>	USCV-14 (US Commercial Vehicles)
June??	<a href="#">Angara A5P/KVTK</a>	A mission to Venus ( <i>Venera D</i> ) would be launched
??	CZ	Jupiter Orbiter
??	CZ	Mars Sample Return
??	CZ	Chang'e-8 (Moon north pole landing)
??	<a href="#">Angara A5/DM03</a>	Bumerang (FobosGrunt 2)

### 2069.

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