



# Blog Gorana Hudeca

## Predstojeća lansiranja u Svemir (17.6.2019.)

2019.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in red. Last change 17. June 2019.

**June20. 2143UTC Ariane 5 ECA VA248 Eutelsat 7C / DirecTV 16**  
Launch site: [Kourou](#), French Guiana

**June21. 1217UTC Proton-M** rocket to launch **Spektr-Rentgen-Gamma X-Ray** observatory from Baikonur. 1900 kg Spectr-RG is a joint Russian-German X-ray observatory carrying two telescopes developed and produced by German and Russian partners. The primary instrument is German eRosita, complemented by Russian ART-XC. Main tasks of the project are studies of the sky in X-ray energy range, which can provide clues for the mystery of dark energy.  
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

**June23. Jielong-1 JL-1 Tianqi-2, CAS-7B/BP-1P**  
Launch site: [Jiuquan](#), China

**June25. 0330UTC Falcon Heavy STP-02, FORMOSAT-7 (6 sat)**  
Launch site: [Cape Canaveral](#), USA

**June27. 1227UTC Atlas 5 AEHF 5**  
Launch site: [Cape Canaveral](#), USA

June?? [CZ-4B](#) ZY-2D Ziyuan-2D  
Launch site: [Taiyuan](#), China

June?? [CZ-2D](#) SJ-19 Shijian-19  
June?? [Electron](#) "Make it rain" Prometheus (x2), ACRUX-1, **BlackSky Global-3**, **2xSpaceBEE**

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

?? Pegasus-XL ICON ([Helio EX-1](#))  
??Launch site: [Cape Canaveral](#), USA

?? [CZ-3B/G2](#) TCSTAR 1 100  
?? [CZ-11](#) Zhuhai-1 Group-3  
?? [Soyuz-2-1V](#) ??  
?? [Soyuz-2-1B/Fregat M](#) Meridian 18L

**July05. 0541UTC Soyuz-2-1B/Fregat-M Meteor M-2-2, Ionosfera 3, Ionosfera 4**  
Launch site: Восточный ([Vostochniy](#)) Cosmodrome, Russia

**July06. 0153GMT Vega VV15 Falcon Eye 1**  
Launch site: [Kourou](#), French Guiana

**July14. 2121UTC GSLV Mk III D3 Chandrayaan 2**  
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

**July15. 2137UTC Proton-M/Briz-M Blagovest 4**



# Blog Gorana Hudeca

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

**July20. 1628UTC Soyuz FG Soyuz MS 13 (S60/61)**  
 CDR: Александр Александрович Скворцов (Alexander Skvortsov), Luca Parmitano (ESA), Andrew Morgan (NASA)

**July21. 2332UTC Falcon 9 Dragon SpX-18**  
 Launch site: [Cape Canaveral](#), USA

**July24. 1930UTC Ariane 5 ECA VA249 Intelsat 39 / EDRS-C (Hylas 3)**  
 Launch site: [Kourou](#), French Guiana

**July25. 1500UTC Delta IV GPS IIIA-2**  
 Launch site: [Cape Canaveral](#), USA

**July31. 1231UTC Soyuz-2 Progress MS 12**

July?? [KZ-1A](#) ??  
 Launch site: [Jiuquan](#), China

July?? Hyperbola-1 SQX-1 7 satellites  
 Launch site: [Jiuquan](#), China

July?? [CZ-3A](#) [Beidou 3 I3Q](#)  
 July?? [PSLV](#) C48 - XL [RISAT-2BR1](#)

**Aug17. 1300UTC Atlas 5 N22 (AV80) CST-100 Starliner (unmanned test)**  
 Launch site: [Cape Canaveral](#), USA

**Aug22. Soyuz-2 1A Soyuz 14 GVK**

Aug?? [Zenit 3 SL /Fregat](#)-SB Lybid'  
 Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

Aug?? [Falcon 9](#) Amos 17  
 Launch site: [Cape Canaveral](#), USA 80

Aug?? SSLV D1 Two defence sats  
 Aug?? [PSLV](#) C47 CARTOSAT-3, NEMO-AM  
 Aug?? [Electron](#) KSM-1,KSM-2,KSM-3 (Kleos Scouting Mission)

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

**Sep01. Cosmic Girl / LauncherOne Test Launch**  
 Launch site: [Spaceport America](#), USA

**Sep02. Vega SSMS POC (Small Spacecraft Mission Service Proof Of Concept)**

**Sep11. H-2B (F9) HTV8**

**Sep21. Falcon 9 (SPx-DM2) Dragon v2**  
 CDR: Robert Benkhen, Doug Hurley

**Sep25. Soyuz-2-1A Soyuz MS 15 (S61/62)**  
 CDR : Олэг Ива́нович Скри́почка, (Oleg Ivanovich Skripotscka), ??Christopher J. Cassidy, Hazzaa Al Mansouri

Sep?? [GSLV](#) MK II F12 GISAT -1



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??	<a href="#">Atlas 5</a> 551 (AV-086)	AEHF-6
??	<a href="#">Ariane 5</a>	Inmarsat-5 F5 (GX-5)
??	<a href="#">Falcon 9</a>	JCSat 18
??	<a href="#">Electron</a>	BlackSky Global 4
??	<a href="#">Electron</a>	Dove / Flock-y
<b>Oct15.</b>	<b><a href="#">Soyuz ST B/Fregat-MT</a></b>	<b>Cosmo-SkyMed Secon Gen 1</b>
	<b>(Characterising ExOPlanet Satellite)</b>	<b>CSG-1 / CHEOPS</b>
<b>Oct19.</b>	<b><a href="#">Antares</a> 230</b>	<b><a href="#">Cygnus</a> OA-12</b>
Oct??	<a href="#">CZ-3B/YZ-1</a>	<a href="#">Beidou 3</a> MEO M19, <a href="#">Beidou 3</a> MEO M20
Oct??	<a href="#">Falcon 9</a>	GPS IIIA-3
Oct??	<a href="#">Atlas 5</a> 551	STP-03 <span style="float: right;">60</span>
Oct??	SSLV D2	Demo 2
Oct??	<a href="#">PSLV</a>	RISAT-2BR2
Oct??	<a href="#">Proton-M/Briz-M</a>	EutelSat 5 West B / MEV
??	CZ-4B	CBERS-4° A
<b>Nov01.</b>	<b><a href="#">Atlas 5</a> 422 (AV082) CST-100 Starliner</b>	
	CDR: Michael <b>Fincke</b> , Chris <b>Ferguson</b> , Nicole Aunapu <b>Mann</b>	
<b>Nov20.</b>	<b><a href="#">Proton-M/Briz-M</a></b>	<b>Elektro L – 3</b>
	Launch site: Байконур ( <a href="#">Baikonur</a> ) Cosmodrome, Kazakhstan	
<b>Nov20.</b>	<b><a href="#">Soyuz ST B/Fregat-MT</a></b>	<b>OneWeb smalsat (x32)</b>
Nov??	<a href="#">Vega</a>	Falcon Eye 2
Nov??	<a href="#">GSLV</a>	GISAT -2
Nov??	<a href="#">CZ-2D</a>	ETRSS-1 (Ethiopian multi-spectral Remote Sensing Satellite)
??	<a href="#">Ariane 5</a>	JCSat 17
??	Kuaizhou-1A	Hainan-1 (1), Hainan-1 (2), Hainan-1 (3)
??	CZ-6A	Satellite (1-13)
??	Minotaur 1	NROL 111
??	<a href="#">Falcon 9</a>	SiriusXM SX7
??	Minotaur IV	NROL 129
<b>Dec04.</b>	<b><a href="#">Falcon 9</a> FT</b>	<b><a href="#">Dragon</a> SpX-19</b>
<b>Dec05.</b>	<b><a href="#">Soyuz ST B/Fregat-MT</a></b>	<b>OneWeb smalsat (x32)</b>
<b>Dec20.</b>	<b><a href="#">Soyuz-2</a></b>	<b><a href="#">Progress MS</a> 13</b>
??Dec??	<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> <span style="float: right;">40</span>	
Dec??	<a href="#">Rokot / Briz KM</a>	<a href="#">Gonets</a> x 3 (No 24,25,26), Blits-M
	Launch site: Плесецк ( <a href="#">Plesetsk</a> ) Cosmodrome, Russia	
Dec??	<a href="#">Proton-M/Briz-M</a>	Ekspress 80, Ekspress 103
Dec??	<a href="#">Soyuz-2 1B /Fregat-M</a>	CAS500-1
Dec??	<a href="#">Soyuz-2-1B/Fregat</a>	Glonass K2 / 13
Dec??	<a href="#">Falcon 9</a>	GPS IIIA-4



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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="#">Angara</a> A5/ <a href="#">Briz M</a>	Kosmos	
Dec??	<a href="#">CZ-5</a> Y3	SJ-20 (DFH-5 platform)	
??	<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="#">Ariane 5</a> ECA	Eutelsat BB4A (African Broadband Satellite)	
??	<a href="#">Ariane 5</a> ECA	Star One D2	
??	<a href="#">Vega</a>	OpSis	
??	<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	Pion	
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Tundra 3	
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Tundra 4	20
??	<a href="#">Rokot / Briz KMGeo IK 2</a>	13L	
Launch site: Плесецк ( <a href="#">Plesetsk</a> ) Cosmodrome, Russia			
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Glonass K1 15	
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> M	Meridian 19L	
??	<a href="#">CZ-5</a>	Chang'e-5 (Sample return)	
??	CZ-7	New generation manned spacecraft	
??	CZ	FY-3E Fengyun-3E	
??	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	
??	<a href="#">CZ-3A</a>	<a href="#">Beidou 3</a> I2Q	
??	CZ	CBERS-SAR 1	
??	CZ-??	<a href="#">CAS-4A, CAS-4B</a>	
Launch site: <a href="#">Taiyuan</a> , China			
??	<a href="#">KZ-1A</a>	Jilin 1-10	
??	<a href="#">KZ-1A</a>	Jilin 1-11	
??	<a href="#">KZ-1A</a>	Jilin 1-12	
??	<a href="#">CZ-2D</a>	GF-7 Gaofen-7	
??	<a href="#">CZ-11</a>	Fengtai Shaonian-02	



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?? [CZ-3B/G2](#) ZX-18 Zhongxing-18

7 + 11  
33 + 110

## 2020.

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

?? - inaugural flight - Vega-C - Kourou ZLV

?? [Falcon 9](#) SAOCOM-1B, SAOCOM-1C

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

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

Feb?? H-2B (F10)

HTV9

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

[Beidou 3 2GQ](#)

120

Feb?? [Soyuz-2](#)

[Progress MS 14](#)

Feb?? [GSLV](#)

GSAT - 32

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

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

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

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

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

?? [CZ-5](#) B Test flight

?? [Ariane 5](#) ECA Eutelsat Quantum

?? [Ariane 5](#) ECA GSAT 30

**Mar20.** [Soyuz 2-1A](#) [Soyuz MS 16 \(S62/63\)](#)

CDR: Николай Владимирович **Тихонов** (Nikolai **Tikhonov**), Андрей Николаевич

**Бабкин** (Andrei **Babkin**), Hoshide

Mar?? [Delta IV](#)-M 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))

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

?? [Ariane 5](#) Galaxy 30 / MEV-2

?? [Ariane 5](#) ECA GEO-KOMPSAT-2B , Cheollian 2B

?? [Soyuz-2](#)-1B/[Fregat](#)-M Glonass M 59

?? [Soyuz-2](#)-1B/[Fregat](#)-M Glonass M 60

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?? [Soyuz-2](#) 1B /[Fregat](#)-M CAS500-1 100

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

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

?? [Vega](#) CCERES (x3)

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



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May??	Ariane 62	CSO-2	
June??	<a href="#">Atlas 5</a> 402	CST 100 Starliner (USCV-2)	
	Cdr: John <b>Cassada</b> , Sunita <b>Williams</b>		
June??	<a href="#">Ariane 5</a>	MTG-S1/Sentinel-4A	
June??	<a href="#">CZ-3C</a>	<a href="#">Beidou 3</a> G3Q	
June??	Vega_C	Space Rider flight 1	
June??	<a href="#">Atlas 5</a> 551	AFSPC-8 (GSSAP 5, GSSAP 6)	
June??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 15	
??	<a href="#">Vega</a>	Seosat (Ingenio)	
<b>July16</b>	<b>Ariane 62</b>	<b>OneWeb</b>	
<b>July17.</b>	<a href="#">Atlas 5</a> (541)	<a href="#">Mars 2020 rover</a>	
<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="#">CZ-5</a>	<a href="#">Mars probe</a> (orbiter + lander + rover)	
July??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glonass K2 / 14	
??	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	
Sep??	CZ	CBERS-6	80
Sep??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glonass K2 / 15	
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)	
??	CZ-2F/G	SZ-13 Shenzhou-13	
??	<a href="#">Soyuz-2-1B</a>	Arktika-M	
<b>Oct21.</b>	<b>Soyuz 2-1A</b>	<b><a href="#">Soyuz MS 17 (S63/64)</a></b>	
	CDR: <b>Иванишин (Ivanishin)</b> , <b>Вагнер (Vagner)</b> , <b>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)	
??	<a href="#">Falcon 9</a>	SARah 1	
??	<a href="#">Angara</a> A5/ DM 03(Persei)	Kosmos	
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	
??	SLS-1	Orion (unmanned trip around the Moon)	Exploration Mission 1 (Distant Retrograde Orbit (DRO) Tactical DRM)
??	<a href="#">Proton-M</a>	MLM	



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

Dec?? [Soyuz-2](#) [Progress MS](#) 17 **60**

?? ?? PACE  
 ?? ?? EX-4  
 ?? ?? ACE  
 ?? ?? HypIRI  
 ?? Antares IMAP/STP-05

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

?? [Falcon H](#) ViaSat 3  
 ?? [Falcon 9](#) KPLO (Korea Pathfinder Lunar Orbiter)

?? [Soyuz-2](#) 1B /[Fregat](#)-M Glonass K1 / 16  
 ?? [Soyuz-2](#) 1B /[Fregat](#)-M Glonass K1 / 17

?? [Soyuz-2-1B](#)/[Fregat](#)-M Meteor M No2-3  
 ?? [Angara](#) 1.2 Kompsat-6  
 ?? [Soyuz-2-1A](#)/[Fregat](#)-M [Gonets](#) x 6

?? [Proton-M](#)/[Briz-M](#) AOneSat-1  
 ?? [Proton-M](#)/[Briz-M](#) Terrestar-2  
 ?? [Proton-M](#)/[Briz-M](#) SkyTerra 2  
 ?? [Proton-M](#)/[Briz-M](#) Ekspress AMU 3 / Ekspress AMU 7  
 ?? [Proton-M](#)/[Briz-M](#) Yenisey A1  
 ?? [Proton-M](#)/[Briz-M](#) Ямал-501  
 ?? [Proton-M](#)/[Briz-M](#) EutelSat **40**  
 ?? [Proton-M](#)/[Briz-M](#) Ямал-GK-1  
 ?? [Proton-M](#) PTK NP

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

?? [Soyuz-2-1B](#) Lotos S1  
 ?? [Soyuz-2-1B](#) Persona  
 ?? [Soyuz-2-1A](#) Kobalt M  
 ?? [Soyuz-2-1A](#) Foton M

?? [Soyuz-2-1B](#)/[Fregat](#)-M Kondor-FKA n.º 1  
 ?? [Soyuz-2-1B](#) Obzor R -1  
 ?? ?? Zond  
 ?? ?? MKA PN6 (Monika)  
 ?? ?? Картограф-ОЭ №1

?? [Angara](#) 1.2 Kosmos

?? [Ariane 5](#) Arsat 3



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??	<a href="#">Ariane 5</a>	ViaSat-3 Asia	
??	<a href="#">Ariane 5</a> ECA	EDRS-D	
??	??	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	20
??	CZ	HY-3B Haiyang-3B	
??	<a href="#">CZ-3B/</a> Palapa 1N		
??	??	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="#">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="#">GSLV</a> MK III	MOM-2 Follow on Mars Mission	
??	<a href="#">PSLV</a>	EnMap	
??	<a href="#">PSLV</a> XL	<a href="#">Aditya'</a>	
??	H-IIA	<a href="#">Hope</a> (UAE mission to Mars)	
??	H-IIA	Astro H2 (Hitomi-2), SLIM (Smart Lander for Investigating Moon)	
??	H-IIA	Inmarsat-6 F1	
??	<a href="#">Safir 1 B</a>	Tadbir	
??	Safir 3A	Pars sepher	

126

## 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: xx, Akihiko **Hoshide**, xx

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

Mar?? [Atlas 5](#) 411 SBIRS-GEO 5

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





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Apr??	Ariane 62	Galileo-FOC FM23, Galileo-FOC FM24
??	<a href="#">CZ-5 B</a>	Wentian Lab module    Space station module
June??	<a href="#">Soyuz ST B</a> / <a href="#">Fregat</a>	MT Euclid
	Euclid will depart Earth on a Soyuz rocket launched from French Guiana and head for the L2 Lagrange point.	
June??	<a href="#">Falcon 9</a>	DART (Double Asteroid Redirection Test)
??	CZ7	TZ 3 Tianzhou 3 (Logistic Cargo Vehicle)
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 19
??	CZ-2F/G	SZ-14 Shenzhou-14
??	Ariane 62	Galileo-FOC FM25, Galileo-FOC FM26
July??	Vulcan/Minotaur 6/ <a href="#">Falcon 9</a> v1.1	JPSS-2
July??	<a href="#">Vega</a> C	Biomass
July??	<a href="#">Soyuz-2</a> 1a / <a href="#">Fregat</a>	Luna 25 (Luna-Glob-1)
July??	GSLV-Mk III.    Gaganyaan-2	
??	<a href="#">Soyuz ST B</a> / <a href="#">Fregat</a> -MT	EarthCare
<b>Sep30.</b>	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS 18</a>
Sep??	<a href="#">Soyuz ST B</a> / <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
<b>Oct16.</b>	<a href="#">Atlas 5</a> 401	<b>Lucy</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
Oct??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-5 (US Commercial Vehicles)
Dec??	<a href="#">Vega</a> C	KOMPSAT 7
Dec??	GSLV-Mk III.    Gaganyaan-3	
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="#">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</a> -1B/ <a href="#">Fregat</a> -M	Transformable Modul    TM
??	<a href="#">Proton-M</a>	HƏM-1
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Meteor M No2-4
??	<a href="#">Angara</a> 1.2	<a href="#">Gonets</a> x 3
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	Ekspress-RV1, Ekspress-RV2
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	Ekspress AMU 4
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Smotr R №1
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	IntelSat



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??	<a href="#">Proton-M/Briz-M</a>	Elektro L - 4
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Arktika M 2
??	<a href="#">Proton-M/ DM-03</a>	<a href="#">Glonass-M/K21,K22,K23</a>
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Kondor-FKA n.º 2
??	<a href="#">Soyuz-2 1B /Fregat-M</a>	Resurs N°5
??	<a href="#">Angara A5/ 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 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
??	CZ	Venus Global Sensing Probe
??	CZ	FY-3G Fengyun-3G (Batch 2)
??	??	Sansha-1 (1)
??	??	Sansha-1 (2)

## 2022.

Jan??      ??      Solar Sentinels

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

**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

Apr??      [Atlas 5](#) 402 / [Falcon 9](#)      USCV-6 (US Commercial Vehicles)

??      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)**

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

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

June??      Ariane 5      MTG-I2

??      Sunkar ??



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??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 20</a>	
Aug??	H2B	Phobos sample return	
Oct??	<a href="#">Atlas 5 402</a> / <a href="#">Falcon 9</a>	USCV-7 (US Commercial Vehicles)	
Aug??	<a href="#">Atlas 5 411</a>	SBIRS-GEO 6	
<b>Sep30.</b>	<b><a href="#">Soyuz-2-1A</a></b>	<b><a href="#">Soyuz MS 20</a></b>	
Dec??	<a href="#">Soyuz ST B</a> / <a href="#">Fregat</a> -MT	MetOp-SG B1	
Dec??	<a href="#">Vega C</a>	FLEX (Fluorescence Explorer satellite)	
??	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 1.2</a>	<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="#">Angara A5/ Briz-M</a>	Luch 5M	
??	<a href="#">Ariane 5</a>	Moon's south pole samples return mission	
??	<a href="#">Ariane 5</a>	Comsat NG 2 (Syracuse 4B)	
??	<a href="#">Vega C</a>	Space Rider 3	
??	<a href="#">Vega C</a>	CryoSat FO	
??	CZ	HY-3C Haiyang-3C	
<b>2023.</b>			
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 22</a>	
<b>Mar30.</b>	<b><a href="#">Soyuz-2-1A</a></b>	<b><a href="#">Soyuz MS 21</a></b>	
Apr??	<a href="#">Atlas 5 402</a> / <a href="#">Falcon 9</a>	USCV-8 (US Commercial Vehicles)	
??	CZ7	TZ 5 Tianzhou 5 (Logistic Cargo Vechile)	
??	CZ-2F/G	SZ-16 Shenzhou-16	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 23</a>	
??	<a href="#">Ariane 5</a>	MTG-S2/Sentinel-4A	



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## Sep30.

[Soyuz-2-1A](#)

[Soyuz MS 22](#)

Oct?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-9 (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 Mission to Venus

?? [Angara](#) A5P/DM03 Lutch 5 – 2

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

?? [Angara](#) A5P/DM03 Lutch 5 – 3

?? ?? Ямал GK 2

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

## 2024

### Mar30.

[Soyuz-2-1A](#)

[Soyuz MS 23](#)

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

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

### Sep30.

[Soyuz-2-1A](#)

[Soyuz MS 24](#)

Oct?? EELV GOES-U

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

?? SLS Block IA II Orion: Exploration Mission 4 (Crew to Cislunar)



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??	Sunkar	Federatsia (Light 14t – 2 man to ISS)
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 25
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 26
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 27
??	<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-2-1B/Fregat-M</a>	Resurs PM - 4
??	<a href="#">Angara</a> 1.2	<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>		
Apr??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-12 (US Commercial Vehicles)
Oct??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-13 (US Commercial Vehicles)
??	SLS Block IA II	Orion: Exploration Mission 5 (Crew to Cislunar)
??	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS</a> 25
??	SLS Block I	Europa Clipper
??	<a href="#">Soyuz-2</a> 1b	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</a> 1.2	<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
<b>2026.</b>		
Apr??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-14 (US Commercial Vehicles)
June??	<a href="#">Angara</a> A5P/KVTK	A mission to Venus ( <i>Venera D</i> ) would be launched



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Oct??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-15 (US Commercial Vehicles)
??	CZ	Jupiter Orbiter
??	CZ	Mars Sample Return
??	CZ	Chang'e-8 (Moon north pole landing)
??	<a href="#">Angara</a> A5/DM03	Bumerang (FobosGrunt 2)

### 2069.

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