



# Blog Gorana Hudeca

## Predstojeća lansiranja u Svemir (25.2.2019.)

2019.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in **red**. Last change **25.Feb.2019.**

**Feb27. 2137UTC** [Soyuz ST B/Fregat-MT \(VS21\)](#) **OneWeb smalsat (x6)**  
Launch site: [Kourou](#), French Guiana

**Feb28. 0745UTC** [Electron/Curie](#) **DARPA R3D2**  
Launch site: [Kaitorete Spit](#), New Zeland

Feb?? [CZ-3C](#) [Beidou 3 2G8](#)

**Mar02. 0748UTC** [Falcon 9 \(SPx-DM1\)](#) [Dragon v2](#) **unmanned test**  
Launch site: [Cape Canaveral](#), USA

**Mar09.** [CZ-3B/G2](#) **ZX 6C**

**Mar13. 2258UTC** [Delta IV-M \(5,4\)](#) **WGS 10**  
Launch site: [Cape Canaveral](#), USA

**Mar14. 1914UTC** [Soyuz-2 1A](#) [Soyuz MS 12 \(S59/60\)](#)  
CDR: Алексей Николаевич **Овчинин**, (Aleksey Nikolayevich **Оvchinin**), Christina **Hammock Koch**, Tyler N. **Hague**  
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

**Mar15. 0150UTC** [Vega \(VV14\)](#) [Prisma](#)  
Launch site: [Kourou](#), French Guiana

**Mar21 .** [PSLV C45](#) **EMIsat**  
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

**Mar25.OS-M1 Lingque 1**  
Launch site: [Jiuquan](#), China

**Mar26.Soyuz ST B/Fregat-MT** [O3b \(FM17-20\)](#) **120**  
Launch site: [Kourou](#), French Guiana

Mar?? [Falcon H](#) **Arabsat 6A**  
Launch site: [Cape Canaveral](#), USA

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

Mar?? [Falcon 9](#) **Radarsat C-1, -2, C-3**  
Launch site: [Vandenberg](#), USA

Mar?? [CZ-3C](#) **Tianlian-2 TL-2**

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

?? [Electron](#) **Outernet 2,3**



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?? [Soyuz-2-1B/Fregat](#) M Meridian 18L  
 ?? [CZ-3A](#) [Beidou 3](#) I1Q

**Apr04. 1101UTC** [Soyuz-2](#) [Progress MS 11](#)

**Apr05. CZ?? CAS-7A, CAS-7B**

**Apr17. 2046UTC** [Antares 230](#) [Cygnus OA-11](#)

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

**Apr25. 0930UTC** [Falcon 9](#) [Dragon SpX-17](#)

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

Apr?? [GSLV](#) Mk II D9 Chandrayaan 2  
 Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

Apr?? ?? GOES-T  
 Apr?? [CZ-3A](#) [Beidou 3](#) I2Q  
 Apr?? [CZ-2D](#) SJ-19 Shijian-19  
 Apr?? [Falcon Heavy](#) STP-02, FORMOSAT-7 (6 sat)  
 Apr?? [Proton-M/Briz-M](#) Blagovest 14  
 Apr?? [PSLV](#) C46 CARTOSAT-3

?? [Soyuz-2](#) 1A [Bars-M](#) 3  
 Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia 100

?? [Vega](#) Falcon Eye 1

May?? [Atlas 5](#) N22 (AV80) CST-100 Starliner (unmanned test)

May?? [Rokot / Briz KM](#) [Gonets](#) x 3 (No 24,25,26), Blits-M  
 Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

May?? [Proton-M/Briz-M](#) EutelSat 5 West B / MEV  
 May?? [Soyuz-2-1B/Fregat](#) Glonass M/ 58  
 May?? [Ariane 5](#) ECA Intelsat 39  
 May?? [PSLV](#) C47 RISAT-2BR1

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

?? [Falcon 9](#) SARah 1

**June21.** [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.

**June22.** [CZ-4B](#) [ZY-2D Ziyuan-2D](#)

Launch site: [Taiyuan](#), China

**June27.** [Atlas 5](#) [AEHF 5](#)

June?? [Soyuz-2-1B](#) Arktika M 1  
 Launch site: Восточный ([Vostochniy](#)) Cosmodrome, Russia



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June??	<a href="#">CZ-11</a> - SL	CAS 6	
June??	<a href="#">Proton-M/Briz-M</a>	Ямал-601	
June??	<a href="#">Ariane 5</a>	GSAT-30	
June??	<a href="#">Ariane 5</a> ECA	Eutelsat 7C	
??	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="#">CZ-3B/G2</a>	TCSTAR 1	
??	<a href="#">GSLV</a> MK II F10	GISAT	80
??	<a href="#">Falcon 9</a>	Amos 17	
??	<a href="#">CZ-11</a>	Zhuhai-1 Group-3	
??	<a href="#">Soyuz-2-1V</a>	??	
<b>July06.</b>	<b>Soyuz FG</b>	<b>Soyuz MS 13 (S60/61)</b>	
CDR: Александр Александрович <b>Скворцов</b> (Alexander <b>Skvortsov</b> ), Luca <b>Parmitano</b> (ESA), Andrew <b>Morgan</b> (NASA)			
<b>July08.</b>	<b>Falcon 9</b>	<b>Dragon SpX-18</b>	
<b>July31.</b>	<b>Soyuz-2</b>	<b>Progress MS 12</b>	
July??	<a href="#">Falcon 9</a> (SPx-DM2)	<a href="#">Dragon v2</a>	
CDR: Robert <b>Benkhen</b> , Doug <b>Hurley</b>			
July??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Meteor M-2-2, Ionosfera 3, Ionosfera 4	
Launch site: Восточный ( <a href="#">Vostochniy</a> ) Cosmodrome, Russia			
July??	<a href="#">Vega</a>	SSMS POC (Small Spacecraft Mission Service Proof Of Concept)	
July??	<a href="#">Ariane 5</a> ECA	EDRS-C (Hylas 3)	
July??	<a href="#">Delta IV</a>	GPS IIIA-2	
July??	<a href="#">CZ-3A</a>	<a href="#">Beidou 3</a> I3Q	
July??	<a href="#">CZ-5</a> Y3	SJ-20 (DFH-5 platform)	
<b>Aug22.</b>	<b>Soyuz-2 1A</b>	<b>Soyuz 14 GVK</b>	
<b>Aug27.</b>	<b>Atlas 5 422 (AV082)</b>	<b>CST-100 Starliner</b>	
CDR: Michael <b>Fincke</b> , Chris <b>Ferguson</b> , Nicole Aunapu <b>Mann</b>			
Aug??	<a href="#">Zenit 3 SL</a> / <a href="#">Fregat</a> -SB	Lybid'	
Launch site: Байконур ( <a href="#">Baikonur</a> ) Cosmodrome, Kazakhstan			
Aug??	SSLV D1	??Two defence sats	
??	<a href="#">CZ-3B/E</a>	Apstar-6D	
<b>Sep25.</b>	<b>Soyuz-2-1A</b>	<b>Soyuz MS 15 (S61/62)</b>	
CDR : Олэг Ива́нович <b>Скри́почка</b> , (Oleg Ivanovich <b>Skripotscka</b> ), Christopher J. <b>Cassidy</b> , <b>Al Mansouri</b>			
Sep??	H-2B (F9)	HTV8	60
??	<a href="#">Atlas 5</a> 551 (AV-086)	AEHF-6	
??	<a href="#">Ariane 5</a>	Inmarsat-5 F5	
??	<a href="#">Falcon 9</a>	JCsat 18	



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**Oct15.**      [Soyuz ST B/Fregat-MT](#)      **Cosmo-SkyMed Secon Gen 1**      **CSG-1 / CHEOPS**  
**(Characterising ExOPlanet Satellite)**

**Oct19.**      [Antares 230](#)      [Cygnus OA-12](#)

Oct??      [CZ-3B/YZ-1](#)      [Beidou 3](#) MEO M19, [Beidou 3](#) MEO M20  
 Oct??      [Soyuz-2](#) 1B /[Fregat](#)-M      [Gonets](#) x 3 (No 27,28,29)  
 Oct??      [Falcon 9](#)      GPS IIIA-3  
 Oct??      [Ariane 5](#) ECA      GSAT-20  
 Oct??      [Atlas 5](#) 551      STP-03

??      CZ-4B      CBERS-4° A

??      [Ariane 5](#)      JCSat 17  
 ??      [Ariane 5](#) ECA      GEO-KOMPSAT-2B , Cheollian 2B  
 ??      [Ariane 5](#) ECA      Eutelsat Quantum  
 ??      [Falcon 9](#)      SAOCOM-1B, SAOCOM-1C  
 ??      Kuaizhou-1A      Hainan-1 (1), Hainan-1 (2), Hainan-1 (3)  
 ??      CZ-6A      Satellogic (1-13)  
 ??      [Vega](#)      Seosat (Ingenio)  
 ??      Minotaur 1      NROL 111  
 ??      [Falcon 9](#)      SiriusXM SX7      40

**Dec04.**      [Falcon 9](#) FT      [Dragon SpX-19](#)

**Dec20.**      [Soyuz-2](#)      [Progress MS 13](#)

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

Dec??      [Proton-M/Briz-M](#)      Ekspress 80, Ekspress 103  
 Dec??      [Soyuz-2](#) 1B /[Fregat](#)-M      CAS500-1  
 Dec??      [Soyuz-2](#)-1B/[Fregat](#)      Glonass K2 / 13  
 Dec??      [Falcon 9](#)      GPS IIIA-4  
 Dec??      [CZ-3B/YZ-1](#)      [Beidou 3](#) MEO M21, [Beidou 3](#) MEO M22  
 Dec??      [Angara](#) A5/ DM3      Kosmos (Persei)

??      [Atlas 5](#) 551      AFSPC-7 (X-37B OTV 6)

??      [Atlas 5](#) 551      Asteroid Retrieval Spacecraft (ARS)  
 ??      ??      EX-3

??      [Ariane 5](#) ECA      Eutelsat BB4A (African Broadband Satellite)  
 ??      [Ariane 5](#) ECA      Star One D2

??      [Vega](#)      OpSis

??      [Soyuz-2](#)-      Razdan 1

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

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

??      [Soyuz-2](#)-1B      Pion

??      [Soyuz-2](#) 1B /[Fregat](#)-M      Tundra 3      20



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- ?? [Soyuz-2](#) 1B /[Fregat](#)-M Tundra 4
- ?? [Rokot / Briz KMGEO IK 2](#) 13L  
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia
- ?? [CZ-5](#) Chang'e-5 (Sample return)
- ?? CZ-7 New generation manned spacecraft
- ?? CZ FY-3E Fengyun-3E  
?? 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-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/G2](#) ZX-18 Zhongxing-18
- ?? [GSLV](#) MK II F11 GSAT-10A  
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India
- ?? [PSLV](#) ScatSat, NovaSAR

2 + 17  
9 + 130

## 2020.

- Jan?? [Falcon 9](#) [Dragon](#) SpX-20  
Jan?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x32)

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

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

- Feb?? H-2B (F10) HTV9  
Feb?? [CZ-3B/YZ-1](#) [Beidou 3](#) 2GQ  
Feb?? [Soyuz-2](#) [Progress MS](#) 14

- ?? [Vega](#) SSMS - 2 (Small Spacecraft Mission Service)  
?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x32)  
?? [Vega](#) Falcon Eye 2



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??	<a href="#">CZ-5 B</a>	Test flight	
Mar??	<a href="#">Delta IV-M</a>		DMSP-5D3 F20
Mar??	<a href="#">Soyuz-2-1B/Fregat-M</a>		Glonass K1 / 22
Mar??	<a href="#">Atlas 5</a> 551		AFSPC-12 (WFOV (Wide Field of View Testbed missile-warning satellite))
??	<a href="#">CZ-5</a>	Tian He Space Station Core Module	100
??	<a href="#">Ariane 5</a>	Galaxy 30 / MEV-2	
<b>Apr15.</b>	<b>Soyuz 2-1A</b>	<b><a href="#">Soyuz MS 16 (S62/63)</a></b>	
CDR: Николай Владимирович <b>Тихонов</b> (Nikolai <b>Tikhonov</b> ), Андрей Николаевич <b>Бабкин</b> (Andrei <b>Babkin</b> ), <b>Hoshide</b>			
Apr??	<a href="#">CZ-3B/YZ-1</a>	<a href="#">Beidou 3</a> MEO M23, <a href="#">Beidou 3</a> MEO M24	
Apr??	Angara-1.2/AM <a href="#">Gonets</a>	x 3 (No 30,31,32)	
Apr??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat-M</a>	CAS500-1	
??	CZ7	TZ 2 Tianzhou 2 (Logistic Cargo Vehicle)	
??	CZ-2F/G	SZ-12 Shenzhou-12	
??	<a href="#">Vega</a>	CCERES (x3)	
May??	<a href="#">Soyuz-2</a> 1B	Progress M-UM	
May??	Ariane 62	CSO-2	
??	<a href="#">Proton-M</a>	MLM	
June??	<a href="#">Atlas 5</a> 402	CST 100 Starliner (USCV-2)	
Cdr: John <b>Cassada</b> , Sunita <b>Williams</b>			
June??	SLS-1	Orion (unmanned trip around the Moon) Exploration Mission 1 (Distant Retrograde Orbit (DRO) Tactical DRM)	
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	
<b>July16</b>	<b>Ariane 62</b>	<b>Galileo-FOC FM23, Galileo-FOC FM24</b>	
<b>July17.</b>	<b><a href="#">Atlas 5</a></b> (541)	<b><a href="#">Mars 2020 rover</a></b>	<b>80</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="#">CZ-5</a>	<a href="#">Mars probe</a> (orbiter + lander + rover)	
July??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glonass K2 / 14	
July??	<a href="#">Soyuz-2-1B</a>	Arktika-M	
??	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	



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

**Oct21. Soyuz 2-1A [Soyuz MS 17 \(S63/64\)](#)**  
 CDR: **Иванишин (Ivanishin), Вагнер (Vagner), Bowen**

Oct??	Vega	Proba 3
??	<a href="#">Proton-M/Briz-M</a>	Elektro L – 3

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

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

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

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

??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-22
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??	<a href="#">Falcon H</a>	ViaSat 3
??	<a href="#">Falcon 9</a>	KPLO (Korea Pathfinder Lunar Orbiter)

??	<a href="#">Soyuz-2-1B/ <a href="#">Fregat-M</a></a>	Glonass K1 15
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat-M</a>	Glonass K1 / 16
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat-M</a>	Glonass K1 / 17

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

??	<a href="#">Proton-M/Briz-M</a>	AOneSat-1	
??	<a href="#">Proton-M/Briz-M</a>	Terrestar-2	
??	<a href="#">Proton-M/Briz-M</a>	SkyTerra 2	
??	<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	40
??	<a href="#">Proton-M/Briz-M</a>	EutelSat	



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??	<a href="#">Proton-M/Briz-M</a>	Ямал-GK-1	
??	<a href="#">Proton-M</a>	PTK NP	
??	<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	
??	<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="#">Soyuz-2-1B/Fregat M</a>	Meridian 19L	
??	<a href="#">Angara 1.2</a>	Kosmos	
??	<a href="#">Ariane 5</a>	Arsat 3	
??	<a href="#">Ariane 5</a>	ViaSat-3 Asia	
??	<a href="#">Ariane 5</a> ECA	EDRS-D	
??	??	Seosat-Ingenio-2	
??	<a href="#">Vega C</a>	Cosmo-SkyMed Secon Gen 2	CSG-2 20
??	CZ	Two Meter Space Telescope	
??	CZ	FY-4C Fengyun-4C	
??	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 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	





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## 2021.

Jan?? [Atlas 5](#) 402 USCVC-4 (US Commercial Vehicles)

Feb?? [Soyuz-2](#) [Progress MS](#) 18

Feb?? [Falcon 9](#) GPS IIIA-6

Feb?? [Falcon H](#) [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](#)

?? [CZ-5](#) B Wentian Lab module Space station module

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.

?? CZ7 TZ 3 Tianzhou 3 (Logistic Cargo Vehicle)

?? [Soyuz-2](#) [Progress MS](#) 19

?? CZ-2F/G SZ-14 Shenzhou-14

?? 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

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

**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

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

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

Oct?? Ariane 62 CSO-3

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>	H3M-1
??	<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="#">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 №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
Feb??	<a href="#">Atlas 5 402 / Falcon 9</a>	USCV-6 (US Commercial Vehicles)
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 21</a>

**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](#)



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??	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>Ariane 5ECA</b>	<b>JUICE (JUPiter ICy moon Explorer)</b>
Apr??	<a href="#">CZ-3B/G2</a>	LSTSAT (Nicasat 1)
<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> 402 / <a href="#">Falcon 9</a>	USCV-7 (US Commercial Vehicles)
<b>Aug??</b>	<b><a href="#">Atlas 5</a> 411</b>	<b>SBIRS-GEO 6</b>
<b>Sep30.</b>	<b><a href="#">Soyuz-2-1A</a></b>	<b><a href="#">Soyuz MS 20</a></b>
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)
??	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 N°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	<a href="#">Resurs PM - 1</a>
??	<a href="#">Angara</a> A5/ <a href="#">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</a> C	Space Rider 3
??	<a href="#">Vega</a> C	CryoSat FO
??	CZ	HY-3C Haiyang-3C

**2023.**



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??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 22</a>	
Feb??	<a href="#">Atlas 5 402</a> / <a href="#">Falcon 9</a>		USCV-8 (US Commercial Vehicles)
<b>Mar30.</b>	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS 21</a>	
??	CZ7	TZ 5 Tianzhou 5 (Logistic Cargo Vehicle)	
??	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	
Aug??	<a href="#">Atlas 5 402</a> / <a href="#">Falcon 9</a>		USCV-9 (US Commercial Vehicles)
<b>Sep30.</b>	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS 22</a>	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 24</a>	
??	SLS Block IA II		Orion: Exploration Mission 3 (Crew to Cislunar)
??	Sunkar Federatsia (unmanned flight to ISS)		
??	A Russian <a href="#">Proton/Briz-M</a> (or Angara) rocket to launch the <a href="#">Laplas-P</a> mission to orbit the moon of Jupiter Ganymede.		
??	<a href="#">Proton-M/Briz-M</a>		Ekspress – AT3, AT4
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Resurs PM - 3	
??	<a href="#">Angara 1.2</a>	<a href="#">Gonets</a> x 3	
??	<a href="#">Soyuz-2-1B</a>	Obzor R -2	
??	<a href="#">Soyuz-2-1B</a>	Obzor O -1	
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Ellips - 1	
??	<a href="#">Angara A5P/DM03</a>	Dopler 1, 2	
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Meteor M No2-5	
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Arktika M 3	
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Resurs PM - 2	
??	<a href="#">Vega C</a>	Space Rider 4	
??	<a href="#">Soyuz ST B/Fregat-MT</a>	Sentinel-1C	
??	CZ	SPORT (Solar Polar Orbit Radio Telescope)	
??	CZ	FY-4D Fengyun-4D	
??	CZ	Chang'e-7 (Moon south pole landing)	
??	<a href="#">GSLV MK III</a>		Mission to Venus
??	<a href="#">Angara A5P/DM03</a>		Lutch 5 – 2
??	<a href="#">Soyuz-2-1b</a>		Bion-M No. 2
??	<a href="#">Angara A5P/DM03</a>		Lutch 5 – 3
??	??		Ямал GK 2
??	<a href="#">Soyuz-2 1a</a> / <a href="#">Fregat</a>		<a href="#">Luna 26</a> (Luna-Resurs OA)

**2024**



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Feb??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-10 (US Commercial Vehicles)
<b>Mar30.</b>	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS 23</a>
??	CZ7	TZ 6 Tianzhou 6 (Logistic Cargo Vehicle)
Aug??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-11 (US Commercial Vehicles)
<b>Sep30.</b>	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS 24</a>
Oct??	EELV	GOES-U
??	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-2-1B/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>		
??	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</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



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

## 2026.

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](#)