



## Blog Gorana Hudeca

### Predstojeća lansiranja u Svemir (31.12.2018.)

2018.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in red. Last change 31.Dec.2018.

**Dec30. 2322UTC [Delta 4-H](#) NROL-71 [KH11](#) 17 (Cristal 17)**  
Launch site: [Vandenberg](#), USA

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2019.

**Jan07. 1453UTC [Falcon 9](#) [Iridium Next Flight 8](#) (x10)**  
Launch site: [Vandenberg](#), USA

**Jan17. 0050UTC [Epsilon](#) (4) RAPIS-1 (RAPid Innovative payload demonstration Satellite 1), [OrigamiSat-1](#)**  
Launch site: [Tanegashima](#), Japan

**Jan18. 0100UTC [Falcon 9](#) (SPx-DM1) [Dragon v2](#) unmanned test**  
Launch site: [Cape Canaveral](#), USA

**Jan25. 2340UTC [Delta IV-M](#) (5,4) WGS 10**  
Launch site: [Cape Canaveral](#), USA

**Jan31. [GSLV](#) Mk II D9 [Chandrayaan 2](#)**  
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

Jan?? [PSLV](#) C44 EMIsat  
Jan?? [Electron/Curie](#) Outernet 1,2,3  
Jan?? [CZ-11](#) ??

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

**Feb05. [Ariane 5](#) ECA VA247 [Hellas-Sat-4,SGS1 \(SaudiGeoSat1\) / GSAT 31](#)**  
Launch site: [Kourou](#), French Guiana

**Feb07. 1647UTC [Soyuz-2-1B](#) [EgyptSat A](#)**  
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

**Feb13. 1415UTC [Falcon 9](#) PSN VI**  
Launch site: [Cape Canaveral](#), USA

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

Feb?? [CZ-3A](#) [Beidou 3](#) I1Q  
Feb?? [PSLV](#) C46 Cartosat 3  
Feb?? [Soyuz ST B/Fregat-MT](#) (VS21) OneWeb smalsat (x6)

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



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Launch site: Восточный ([Vostochniy](#)) Cosmodrome, Russia **140**

?? LauncherOne Test Launch

Launch site: [Spaceport America](#), USA

?? [CZ-3B/E](#) Apstar-6D  
 ?? [Ariane 5](#) ECA Eutelsat 7C  
 ?? [Electron](#) Outernet 2,3  
 ?? [Soyuz-2-1B/Fregat](#) M Meridian 18L  
 ?? [PSLV](#) C45 RISAT-2B

**Mar01. 0242UTC [Soyuz-2 1A](#) [Soyuz MS 12 \(S59/60\)](#)**

CDR: Алексей Николаевич **Овчинин**, (Aleksey Nikolayevich **Ovchinin**), Christina **Hammock Koch**, Tyler N. **Hague**

**Mar28. [Soyuz-2](#) [Progress MS 11](#)**

Mar?? [Falcon 9](#) [Dragon](#) SpX-17

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

Mar?? [Vega](#) (VV14) [Prisma](#)

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

Mar?? [PSLV](#) C47 RISAT-2BR1  
 Mar?? [Atlas 5](#) N22 (AV80) CST-100 Starliner (unmanned test)  
 Mar?? [Falcon H](#) Arabsat 6A

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

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

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

?? [Soyuz-2-1B/Fregat](#) Glonass M/ 58  
 ?? [CZ-3B/G2](#) ZX-18 Zhongxing-18

**Apr11. [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.**

**Apr17. [Antares 230](#) [Cygnum OA-11](#) **120****  
 Launch site: [Wallops Island](#), USA

Apr?? [Soyuz-2-1B/Fregat-M](#) Meteor M-2-2, Ionosfera 3, Ionosfera 4  
 Launch site: Восточный ([Vostochniy](#)) Cosmodrome, Russia

Apr?? ?? GOES-T  
 Apr?? [CZ-3A](#) [Beidou 3](#) I2Q  
 Apr?? [CZ-2D](#) SJ-19 Shijan-19  
 Apr?? [Falcon Heavy](#) STP-02, FORMOSAT-7 (6 sat)  
 Apr?? [Soyuz ST](#) B/Fregat-MT [O3b](#) (FM17-20)



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<b>May07.</b>	<b><a href="#">Falcon 9</a></b>	<b><a href="#">Dragon SpX-18</a></b>
May??	<a href="#">Ariane 5</a> ECA	EDRS-C (Hylas 3)
May??	<a href="#">Proton-M/Briz-M</a>	Ямал-601
May??	<a href="#">Ariane 5</a>	GSAT-30
May??	<a href="#">Proton-M/Briz-M</a>	EutelSat 5 West B / MEV

**June18. 0100UTC**      **[Falcon 9 \(SPx-DM2\)](#)**   **[Dragon v2](#)**  
**CDR:** Robert **Benkhen**, Doug **Hurley**

June??	<a href="#">Delta IV</a>	GPS IIIA-2	
June??	<a href="#">CZ-11</a> - SL	CAS 6	
??	<a href="#">CZ-3B/G2</a>	TCSTAR 1	
??	SSLV	??	
??	<a href="#">GSLV</a> MK II    F10	GISAT	
??	<a href="#">Ariane 5</a>	Inmarsat-5 F5	
??	<a href="#">Ariane 5</a> ECA	Intelsat 39	
??	Minotaur 1	NROL 111	100
??	<a href="#">Proton-M/Briz-M</a>	Blagovest 14	
??	<a href="#">Falcon 9</a>	Amos 17	
??	CZ-4B	CBERS-4° A	
??	<a href="#">CZ-11</a>	Zhuhai-1 Group-3	
??	<a href="#">CZ-5</a> Y3	SJ-20 (DFH-5 platform)	

**July06. Soyuz FG**      **[Soyuz MS 13 \(S60/61\)](#)**  
**CDR:** Александр Александрович **Скворцов** (Alexander **Skvortsov**), Luca **Parmitano** (ESA), Andrew **Morgan** (NASA)

**July31. [Soyuz-2](#)      [Progress MS 12](#)**

July??	<a href="#">CZ-3A</a>	<a href="#">Beidou 3</a> I3Q
July??	H-2B (F9)	HTV8
July??	<a href="#">Atlas 5</a> 551	STP-03
July??	<a href="#">Atlas 5</a>	AEHF 5
July??	<a href="#">Vega</a> SSMS POC (Small Spacecraft Mission Service Proof Of Concept)	
Aug??	<a href="#">Atlas 5</a> 422 (AV082)    CST-100 Starliner	

**CDR:** Eric **Boe**, Chris **Ferguson**, Nicole Aunapu **Mann**

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

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

**Sep12. [Soyuz-2 1A](#)      [Soyuz 14 GVK](#)**

Sep??	<a href="#">Atlas 5</a> 552	Dream Chaser Cargo System SNC-1
Sep??	<a href="#">Ariane 5</a> ECA	GSAT-20
??	<a href="#">Atlas 5</a> 551 (AV-086)	AEHF-6
??	<a href="#">CZ-5</a> B      Test flight	

Late - inaugural flight - Vega-C - Kourou ZLV

**Oct01. [Antares 230](#)      [Cygnum OA-12](#)**



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

**Oct15.** [Falcon 9 FT](#) [Dragon SpX-19](#)

**Oct18.** [Soyuz-2-1A](#) [Soyuz MS 15 \(S61/62\)](#)  
CDR : Олэг Ива́нович **Скри́почка**, (Oleg Ivanovich **Skripotscka**), Christopher J. **Cassidy**,  
**Al Mansouri**

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

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)

?? [Ariane 5](#) JCSat 17  
?? [Ariane 5](#) ECA GEO-KOMPSAT-2B , Cheollian 2B  
?? [Ariane 5](#) ECA Eutelsat Quantum  
?? [Falcon 9](#) SAOCAM-1B, SAOCAM-1C  
?? [Kuaizhou-1A](#) Hainan-1 (1), Hainan-1 (2), Hainan-1 (3)  
?? [CZ-6A](#) ??

**Nov30.** [Proton-M](#) **MLM**

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

?? [Vega](#) Seosat (Ingenio)  
?? [Vega](#) - C ??

**Dec02.** [Soyuz-2](#) [Progress MS 13](#)

**Dec??** [Atlas 5](#) 402 CST 100 Starliner (USCV-2) **60**  
Cdr: John **Cassada**, Sunita **Williams**

Dec?? [CZ-3B/YZ-1](#) [Beidou 3](#) MEO M21, [Beidou 3](#) MEO M22  
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-3

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

?? [Falcon 9](#) Astrium active 3x SARah satellite  
?? [Atlas 5](#) 551 Asteroid Retrieval Spacecraft (ARS)  
?? ?? EX-3  
?? [Falcon 9](#) GiSat-1  
?? [Falcon 9](#) OHB SARah satellite (x2)

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

?? [Vega](#) OpSis  
?? [Vega](#) Falcon Eye 1  
?? [Vega](#) Falcon Eye 2



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??	<a href="#">Proton-M/Briz-M</a>	SkyTerra 2	
??	<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	40
??	<a href="#">Proton-M/Briz-M</a>	IntelSat	
??	<a href="#">Soyuz-2-1B/Fregat M</a>	Meridian 19L	
??	<a href="#">Soyuz-2-</a>	Razdan 1	
??	<a href="#">Angara 1.2</a>	Kosmos	
??	<a href="#">Angara A5/ Briz-M</a>	Kosmos (Repei)	
??	<a href="#">Proton-M/Briz-M</a>	Kosmos	
??	<a href="#">Proton-M/Briz-M</a>	Ямал-GK-1	
??	<a href="#">Proton-M/Briz-M</a>	Anik G2V	
??	<a href="#">Proton-M</a>	PTK NP	
??	<a href="#">Soyuz-2 1A</a>	Energiya-100	
??	<a href="#">Soyuz-2-1B</a>	Pion	
??	<a href="#">Soyuz-2-1B</a>	Arktika	
??	<a href="#">Soyuz-2 1B /Fregat-M</a>	Tundra 3	
??	<a href="#">Soyuz-2 1B /Fregat-M</a>	Tundra 4	
??	<a href="#">Rokot / Briz KMGeo IK 2</a>	13L	
Launch site: Плесецк ( <a href="#">Plesetsk</a> ) Cosmodrome, Russia			
??	<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	20
??	<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			
??	<a href="#">KZ-1A</a>	Jilin 1-09	
Launch site: <a href="#">Jiuquan</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-4B</a>	ZY-2D Ziyuan-2D	
Launch site: <a href="#">Taiyuan</a> , China			



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??	<a href="#">CZ-2D</a>	GF-7 Gaofen-7
??	<a href="#">CZ-11</a>	Fengtai Shaonian-02
??	<a href="#">CZ-11</a>	Lingque 1,2
??	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-3C</a>	Tianlian-2 TL-2
??	<a href="#">CZ-3B/YZ-1</a>	ZX-6C Zhongxing-6C
??	<a href="#">GSLV MK II F11</a>	GSAT-10A
Launch site: <a href="#">Satish Dhawan Space Centre</a> , Sriharikota, India		
??	<a href="#">PSLV</a>	ScatSat, NovaSAR
??	<a href="#">Simorgh</a>	<b>Nahid-1</b>
Launch site: <a href="#">Semnan</a> , Iran		
??	<a href="#">Safir 1 B</a>	Tadbir
??	Safir 3A	Pars sepher

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## 2020.

Jan??	<a href="#">Falcon 9</a>	<a href="#">Dragon</a> SpX-20
Jan??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x32)
<b>Feb05.</b>	<a href="#">Atlas 5</a>	<a href="#">Solar Orbiter (Solo)</a> (ESA)
Feb??	H-2B (F10)	HTV9
??	<a href="#">Vega</a>	SSMS – 2 (Small Spacecraft Mission Service)
Mar??	<a href="#">Delta IV</a> -M	DMSP-5D3 F20
Mar??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	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
??	<a href="#">Ariane 5</a>	Galaxy 30 / MEV-2
<b>Apr15.</b>	<b><a href="#">Soyuz 2-1A</a></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> ),		
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</a> -M	CAS500-1
??	CZ7	TZ 2 Tianzhou 2 (Logistic Cargo Vehicle)
??	CZ-2F/G	SZ-12 Shenzhou-12
??	<a href="#">Vega</a> CCERES (x3)	



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May??	<a href="#">Soyuz-2</a> 1B	Progress M-UM
May??	<a href="#">Ariane 62</a>	CSO-2
May??	<a href="#">Falcon 9</a>	GPS IIIA-4
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)
<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>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-3C</a>	<a href="#">Beidou 3</a> G2Q
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>	USCV-3 (US Commercial Vehicles)
CDR: ??(NASA), ??(NASA), ??(RF)		
Aug??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-21
Aug??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 14
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
??	CZ-2F/G	SZ-13 Shenzhou-13
<b>Oct21.</b>	<b><a href="#">Soyuz 2-1A</a></b>	<b><a href="#">Soyuz MS 17 (S63/64)</a></b>
CDR: <b>Иванишин (Ivanishin), Вагнер (Vagner), Bowen</b>		
Oct??	Vega	Proba 3
Nov??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 15
<b>Dec15.</b>	<b><a href="#">Atlas 5</a></b>	<b>Landsat 9</b>
??	GSLV-Mk III.	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).
??	??	PACE
??	??	EX-4
??	??	ACE



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??	??	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="#">Proton-M</a>	HƏM-1
??	<a href="#">Proton-M</a> / DM-03	<a href="#">Glonass-M</a> /59,60,61
??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a> -M	Glonass K1 15
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Glonass K1 / 16
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Glonass K1 / 17
??	<a href="#">Proton-M</a> / DM-03	<a href="#">Glonass-M</a> /K118,K119,K120
??	<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>	AOneSat-1
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	Terrestar-2
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	SkyTerra 2
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	Ekspress AMU 3 / Ekspress AMU 7
??	<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
??	<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
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Resurs N°4
??	??	Zond
??	??	MKA PN6 (Monika)
??	??	Картограф-ОЭ N°1
??	<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</a> C Cosmo-SkyMed Secon Gen 2	CSG-2
??	<a href="#">CZ-5</a>	Chang'e-6
??	CZ	Two Meter Space Telescope
??	CZ	FY-4C Fengyun-4C
??	CZ	HY-3B Haiyang-3B
??	<a href="#">CZ-3B</a> / Palapa 1N	





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??	??	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

## 2021.

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

Feb?? [Soyuz-2](#) [Progress MS](#) 16  
 Feb?? [Falcon 9](#) GPS IIIA-6

**Mar30.** [Soyuz-2-1A](#) [Soyuz MS 18](#)  
 Cdr: xx, Akihiko **Hoshide**, xx

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

?? [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](#) 17  
 ?? 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)

?? [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

Oct?? [Atlas 5](#) 401/[Falcon 9](#) v1.1 JPSS Free Flyer 2 (TSIS-2)  
 Oct?? [Ariane 62](#) [CSO-3](#)



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Dec??	<a href="#">Vega</a> C	KOMPSAT 7
??	<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> 18
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Transformable Modul TM
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Resurs PM - 2
??	<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/Briz-M</a>	Ekspress-RV1, Ekspress-RV2
??	<a href="#">Proton-M/Briz-M</a>	Ekspress AMU 4
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	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</a> -1B/ <a href="#">Fregat</a> -M	Arktika M 2
??	<a href="#">Proton-M/DM-03</a>	<a href="#">Glonass-M/K21,K22,K23</a>
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Kondor-FKA n.º 2
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Resurs №5
??	<a href="#">Angara</a> A5/ <a href="#">Briz-M</a>	Luch 5M
??	<a href="#">Ariane 5</a>	Heinrich Hertz
??	<a href="#">Ariane 5</a>	SES-17
??	<a href="#">Ariane 5</a>	Comsat NG 1 (Syracuse 4A)
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	CSO 2 (Composante Spatiale Optique-2)
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x32)
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	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</a> 402 / <a href="#">Falcon 9</a>	USCV-6 (US Commercial Vehicles)
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 19

**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



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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.

<b>Mar30.</b>	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS 19</a>
??	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>	<a href="#">Ariane 5ECA</a>	<b>JUICE (JU</b> pter <b>ICy</b> moon Explorer)
<b>Apr??</b>	<a href="#">CZ-3B/G2</a>	<b>LSTSAT</b> (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>Sep30.</b>	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS 20</a>
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="#">Soyuz-2</a> 1a / <a href="#">Fregat</a>	<a href="#">Luna 26</a> (Luna-Resurs OA)
??	<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	<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



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?? CZ HY-3C Haiyang-3C

## 2023.

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

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

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

?? 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

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

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

?? [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.

?? [Soyuz-2 1b](#) Luna 27 (Luna-Resurs PA) Testing an adaptive landing mode with a radio-beacon; delivering a rover

?? [Proton-M/Briz-M](#) Ekspress – 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

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

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

?? CZ SPORT (Solar Polar Orbit Radio Telescope)

?? CZ FY-4D Fengyun-4D

?? [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



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## 2024

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	Luna28 (Luna-Grunt-1) delivering a new-generation rover for gathering, analysis and uploading of samples
??	<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
??	Lapan	Pengorbitan-1 (RPS-01) (Indonesia)

## 2025

??	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/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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??	<a href="#">Soyuz-2-1B</a>	Obzor O -2
??	<a href="#">Soyuz-2-1B</a>	Bion-M No. 3
??	CZ	Chang'e-7 (Moon south pole landing)

### 2026.

June??	<a href="#">Angara</a> A5P/KVTK	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</a> A5/DM03	Bumerang (FobosGrunt 2)

### 2069.

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