



## Blog Gorana Hudeca

### Predstojeća lansiranja u Svemir (24.12.2018.)

2018.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in red. Last change 24.Dec.2018.

**Dec24. 1646UTC CZ-3C TJS 3**

Launch site: [Xichang](#), China

**Dec27. 0207UTC Soyuz-2 1A / Fregat Kanopus V 5, Kanopus V 6**

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

**Dec29. CZ-2D Hongyan-1**

Launch site: [Jiuquan](#), China

**Dec30. 0157UTC Delta 4-H NROL-71 KH11 17 (Cristal 17)**

Launch site: [Vandenberg](#), USA

21  
109 + 4

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](#) Zhuhai-1 Group-3

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

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

**Feb05. Ariane 5 ECA VA247 Hellas-Sat-4,SGS1 (SaudiGeoSat1) / GSAT 31**

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



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**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-3C](#) [Beidou 3](#) I1Q  
Feb?? [PSLV](#) C46 Cartosat 3  
Feb?? [Soyuz ST](#) B/[Fregat](#)-MT (VS21) OneWeb smalsat (x6) 160

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

?? 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

?? [CZ-3C](#) [Beidou 3](#) G1Q  
?? [CZ-3B/YZ-1](#) [Beidou 3](#) MEO M17, [Beidou 3](#) MEO M18  
?? [CZ-3B/YZ-1](#) ZX-6C Zhongxing-6C  
?? [CZ-5](#) Y3 SJ-18 02 (DFH-5 platform) 140  
?? [Soyuz-2-1B/Fregat](#) Glonass M/ 58

**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



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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](#)

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-3B/E](#)                                      Nicasat 1

Apr??              [CZ-3C](#)                                      [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)

**May07.**      [Falcon 9](#)                                      [Dragon SpX-18](#)

May??              [Ariane 5](#) ECA                                      EDRS-C (Hylas 3)

May??              [Proton-M/Briz-M](#)                                      Ямал-601

May??              [Ariane 5](#)                                      GSAT-30

May??              [Proton-M/Briz-M](#)                                      EutelSat 5 West B / MEV

**June18. 0100UTC**                                      [Falcon 9 \(SPx-DM2\)](#) [Dragon v2](#)

**CDR:** Robert **Benkhen**, Doug **Hurley**

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

June??              [Delta IV](#)                                      GPS IIIA-2

June??              [CZ-11 - SL](#)                                      CAS 6

??                      [CZ-3B/G2](#)                                      TECSTAR 1

??                      SSLV                                      ??

??                      [GSLV MK II](#)                                      F10                                      GISAT                                      120

??                      [Ariane 5](#)                                      Inmarsat-5 F5

??                      [Ariane 5](#) ECA                                      Intelsat 39

??                      Minotaur 1                                      NROL 111

??                      [Proton-M/Briz-M](#)                                      Blagovest 14

??                      [Falcon 9](#)                                      Amos 17

??                      CZ-4B                                      CBERS-4° A

**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??              [CZ-3C](#)                                      [Beidou 3](#) I3Q

July??              H-2B (F9)                                      HTV8

July??              [Atlas 5](#) 551                                      STP-03

July??              [Atlas 5](#)                                      AEHF 5

July??              [Vega](#)                                      SSMS POC (Small Spacecraft Mission Service Proof Of Concept)

Aug??              [Atlas 5](#) 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



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Aug??	<a href="#">Falcon 9</a>	Dragon v2 (USCV-1)	
		Cdr: Victor <b>Glover</b> , Mike <b>Hopkins</b>	
<b>Sep12.</b>	<a href="#">Soyuz-2 1A</a>	<b>Soyuz 14 GVK</b>	
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	100
Late - inaugural flight - Vega-C - Kourou ZLV			
<b>Oct01.</b>	<a href="#">Antares 230</a>	<a href="#">Cygnum OA-12</a>	
<b>Oct03.</b>	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS 15 (S61/62)</a>	
	CDR : Олѐг Ива́нович <b>Скрѝпочка</b> , (Oleg Ivanovich <b>Skripotscka</b> ), Christopher J. <b>Cassidy</b> , <b>Al Mansouri</b>		
<b>Oct15.</b>	<a href="#">Soyuz ST B/Fregat-MT</a>	<b>Cosmo-SkyMed Secon Gen 1</b>	<b>CSG-1 / CHEOPS</b>
	<b>(Characterising ExOPlanet Satellite)</b>		
<b>Oct15.</b>	<a href="#">Falcon 9</a> FT	<a href="#">Dragon SpX-19</a>	
Oct??	<a href="#">Proton-M/Briz-M</a>	Elektro L – 3	
	Launch site: Байконур ( <a href="#">Baikonur</a> ) Cosmodrome, Kazakhstan		
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="#">Soyuz-2</a> 1B / <a href="#">Fregat-M</a>	<a href="#">Gonets</a> x 3 (No 27,28,29)	
Oct??	<a href="#">Falcon 9</a>	GPS IIIA-3	
??	<a href="#">Ariane 5</a>	JCSat 17	
??	<a href="#">Ariane 5</a> ECA	GEO-KOMPSAT-2B , Cheollian 2B	
??	<a href="#">Ariane 5</a> ECA	Eutelsat Quantum	
??	<a href="#">Falcon 9</a>	SAOCAM-1B, SAOCAM-1C	
<b>Nov30.</b>	<a href="#">Proton-M</a>	<b>MLM</b>	
<b>Nov??</b>	<a href="#">Soyuz ST B/Fregat-MT</a>	OneWeb smalsat (x32)	
??	<a href="#">Falcon 9</a>	GPS IIIA-4	
??	<a href="#">Vega</a>	Seosat (Ingenio)	
??	<a href="#">Vega</a> - C	??	
<b>Dec02.</b>	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 13</a>	
Dec??	<a href="#">CZ-3B/YZ-1</a>	<a href="#">Beidou 3</a> MEO M21, <a href="#">Beidou 3</a> MEO M22	80
Dec??	<a href="#">Proton-M/Briz-M</a>	Ekspress 80, Ekspress 103	
Dec??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat-M</a>	CAS500-1	
Dec??	<a href="#">Soyuz-2-1B/Fregat</a>	Glomass K2 / 13	
??	<a href="#">Atlas 5</a> 551	AFSPC-7 (X-37B OTV 6)	
??	<a href="#">Falcon 9</a>	Astrium active 3x SARah satellite	
??	<a href="#">Atlas 5</a> 551	Asteroid Retrieval Spacecraft (ARS)	
??	??	EX-3	
??	<a href="#">Falcon 9</a>	GiSat-1	



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??	<a href="#">Falcon 9</a>	OHB SARah satellite (x2)	
??	<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="#">Vega</a>	Falcon Eye 1	
??	<a href="#">Vega</a>	Falcon Eye 2	
??	<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	
??	<a href="#">Proton-M/Briz-M</a>	IntelSat	
??	<a href="#">Soyuz-2-1B/Fregat</a> M	Meridian 19L	60
??	<a href="#">Soyuz-2-</a>	Razdan 1	
??	<a href="#">Angara</a> 1.2	Kosmos	
??	<a href="#">Angara</a> A5/ <a href="#">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</a> 1A	Energiya-100	
??	<a href="#">Soyuz-2-1B</a>	Pion	
??	<a href="#">Soyuz-2-1B</a>	Arktika	
??	<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	
??	<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-3F Fengyun-3F (Batch 2)	
??	CZ	FY-3 Fengyun-3 RM-2	
??	<a href="#">CZ-4B</a>	HY-2D Haiyang-2D	
??	<a href="#">CZ-2C</a>	HY-1D Haiyang-1D	
??	CZ	Sun Fixed-Point Observation	40
??	<a href="#">CZ-4B</a>	HY-2C Haiyang-2C	
??	CZ	CBERS-SAR 1	
??	??	Hainan-1 (1)	
??	??	Hainan-1 (2)	
??	??	Hainan-1 (3)	
??	<a href="#">CZ-2D</a>	SJ-12 Shijian-12 (2)	



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??	<a href="#">CZ-2D</a>	TH-2 Tianhui-2	
??	<a href="#">CZ-2C</a>	CSES-1 Earthquake electromagnetism monitor satellite	
??	??	VeneSat-2	
??	<a href="#">CZ-3B/E</a>	CC-1 <a href="#">Changcheng-1</a>	
??	CZ	Deep Space Solar Observatory	
??	CZ-2	CAS-2A1, CAS-2A2	
??	<a href="#">CZ-3B/E</a>	CongoSat 1	
??	CZ	FY-3E Fengyun-3E	
??	CZ	FY-4B Fengyun-4B	
??	CZ-??	<a href="#">CAS-4A, CAS-4B</a>	
Launch site: <a href="#">Taiyuan</a> , China			
??	CZ	Orbita-1 1	
??	<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	20
??	<a href="#">KZ-1A</a>	Jilin 1-12	
??	??	Taurus-1	
Launch site: <a href="#">Taiyuan</a> , China			
??	<a href="#">CZ-4B</a>	ZY-2D Ziyuan-2D	
Launch site: <a href="#">Taiyuan</a> , China			
??	<a href="#">CZ-11</a>	LOVEcho	
??	<a href="#">CZ-11</a>	Fengtai Shaonian-02	
??	<a href="#">CZ-2D</a>	NuSat 6, 7, 8	
??	<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-2D</a>	Jilin-2 JL-2	
??	<a href="#">CZ-2D</a>	Jilin-3 JL-3	
??	CZ	Huaizong-1	
??	<a href="#">CZ-2D</a>	GF-7 Gaofen-7	
??	<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>	<a href="#">Dosti</a>	
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>	<b><a href="#">Atlas 5</a></b>	<b><a href="#">Solar Orbiter (SoIO)</a> (ESA)</b>
Feb??	<a href="#">Atlas 5</a> 402	CST 100 Starliner (USCV-2)
Cdr: John <b>Cassada</b> , Sunita <b>Williams</b>		
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-2-1B</a> / <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</a> /YZ-1	<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)	
May??	<a href="#">Soyuz-2</a> 1B	Progress M-UM
??	<a href="#">CZ-3B/G2</a>	ZX-18 Zhongxing-18
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><a href="#">Ariane 62</a></b>	<b><a href="#">Galileo-FOC FM23</a>, <a href="#">Galileo-FOC FM24</a></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.



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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
??	CZ-2F/G	SZ-13 Shenzhou-13
??	<a href="#">Falcon 9</a>	GPS IIIA-5
<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
??	??	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>	НЭМ-1
??	<a href="#">Proton-M/ DM-03</a>	<a href="#">Glonass-M/59,60,61</a>
??	<a href="#">Soyuz-2-1B/ Fregat-M</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="#">Proton-M/ DM-03</a>	<a href="#">Glonass-M/K118,K119,K120</a>
??	<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





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??	<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="#">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
??	<a href="#">Soyuz-2 1B /Fregat-M</a>	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	
??	??	Hainan-1 (4)
??	??	Hainan-1 (5)
??	??	Hainan-1 (6)
??	??	Sanya-1 (1)
??	??	Sanya-1 (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.

Feb??	<a href="#">Atlas 5</a> 402	USCV-4 (US Commercial Vehicles)
Feb??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 16



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**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](#)                      USCV-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)

Dec??                      [Vega](#) C KOMPSAT 7

??                      [Ariane 5](#)                      MTG-I1

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

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

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

??                      [Falcon 9](#)                      GPS IIIA-8

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

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

??                      [Soyuz-2](#)-1B/[Fregat](#)-M Resurs PM - 2

??                      [Soyuz-2](#)-1B/[Fregat](#)-M Meteor M No2-4

??                      [Angara](#) 1.2                      [Gonets](#) x 3

??                      [Proton-M/Briz-M](#)                      Ekspress-RV1, Ekspress-RV2

??                      [Proton-M/Briz-M](#)                      Ekspress AMU 4

??                      [Soyuz-2](#)-1B/[Fregat](#)-M Smotr R №1

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

??                      [Proton-M/Briz-M](#)                      Elektro L - 4

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

??                      [Proton-M/](#) DM-03                      [Glonass-M](#)/K21,K22,K23

??                      [Soyuz-2](#)-1B/[Fregat](#)-M                      Kondor-FKA n.º 2

??                      [Soyuz-2](#) 1B /[Fregat](#)-M Resurs №5



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??	<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 19</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](#)

??	CZ7	TZ 4 Tianzhou 4 (Logistic Cargo Vehicle)
??	<a href="#">CZ-5 B</a>	Mengtian Lab module Space station module
??	CZ-2F/G	SZ-15 Shenzhou-15

## May20. [Ariane 5ECA](#) [JUICE \(JUPiter ICy moon Explorer\)](#)

## June04. [SLS Block I](#) [Orion: Exploration Mission 2 \(Crew to Cislunar\) Mission](#)

June??	Ariane 5	MTG-I2
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??	Sunkar ??	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 20</a>

Aug??	H2B	Phobos sample return
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Aug??	<a href="#">Atlas 5 402 / Falcon 9</a>	USCV-7 (US Commercial Vehicles)
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## Sep30. [Soyuz-2-1A](#) [Soyuz MS 20](#)

Dec??	<a href="#">Soyuz ST B/Fregat-MT</a>	MetOp-SG B1
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Dec??	<a href="#">Vega</a> C	FLEX (Fluorescence Explorer satellite)
??	Sunkar Federatsia (unmaned)	
??	<a href="#">Soyuz-2</a> <a href="#">Progress MS</a> 21	
??	<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-M</a>	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-M</a>	<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
<b>2023.</b>		
??	<a href="#">Soyuz-2</a> <a href="#">Progress MS</a> 22	
Feb??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-8 (US Commercial Vehicles)
<b>Mar30.</b>	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS</a> 21
??	CZ7	TZ 5 Tianzhou 5 (Logistic Cargo Vechile)
??	CZ-2F/G	SZ-16 Shenzhou-16
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 23
??	<a href="#">Ariane 5</a>	MTG-S2/Sentinel-4A
Aug??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-9 (US Commercial Vehicles)
<b>Sep30.</b>	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS</a> 22
??	<a href="#">Soyuz-2</a> <a href="#">Progress MS</a> 24	
??	SLS Block IA II	Orion: Exploration Mission 3 (Crew to Cislunar)
??	Sunkar Federatsia (unmaned flight to ISS)	



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- ?? 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](#) 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
- ?? [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
- 2024**
- Feb?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-10 (US Commercial Vehicles)
- Mar30.** [Soyuz-2-1A](#) [Soyuz MS 23](#)
- ?? CZ7 TZ 6 Tianzhou 6 (Logistic Cargo Vehicle)
- Aug?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-11 (US Commercial Vehicles)
- Sep30.** [Soyuz-2-1A](#) [Soyuz MS 24](#)
- Oct?? EELV GOES-U
- ?? SLS Block IA II Orion: Exploration Mission 4 (Crew to Cislunar)
- ?? Sunkar Federatsia (Light 14t – 2 man to ISS)
- ?? [Soyuz-2](#) [Progress MS](#) 25  
 ?? [Soyuz-2](#) [Progress MS](#) 26  
 ?? [Soyuz-2](#) [Progress MS](#) 27
- ?? [Soyuz-2](#) 1b Luna28 (Luna-Grunt-1) delivering a new-generation rover for gathering, analysis and uploading of samples
- ?? [Proton-M](#) / DM-03 Spektr - UF



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??	<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
??	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</a> 25
??	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 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
??	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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