



# Blog Gorana Hudeca

## Predstojeća lansiranja u Svemir (30.4.2018.)

2018.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in red. Last change 30.Apr.2018.

**May02.** [CZ-4B](#) [GF-5 Gaofen-5](#)  
Launch site: [Taiyuan](#), China [CZ-4B](#)

**May03.** **1605UTC** [CZ-3B/G2](#) [APStar-6C](#)  
Launch site: [Xichang](#), China

**May05.** **1105UTC** [Atlas 5 401 AV-078](#) [InSight](#)  
Launch site: [Vandenberg](#), USA

**May07.** **2003UTC** [Falcon 9](#) [Bangabandhu-1](#)  
Launch site: [Cape Canaveral](#), USA

**May19.** **2003UTC** [Falcon 9](#) [Iridium Next Flight 6 \(x5\), GRACE FO\\_1, FO\\_2](#) Launch site: [Vandenberg](#), USA

**May20.** **0904UTC** [Antares 230](#) [Cygnum Orb-9E](#)  
Launch site: [Wallops Island](#), USA

**May21.** [CZ-3B/G2](#) [L2 Chang'e 4 communications relay satellite](#)  
Launch site: [Xichang](#), China

**May24.** **0429UTC** [Falcon 9](#) [SES-12](#)  
Launch site: [Cape Canaveral](#), USA

May?? [Electron](#) [Outerspace 1, Lemur](#)  
Launch site: [Kaitorete Spit](#), New Zeland

**June06.** **1111UTC** [Soyuz-2 1A](#) [Soyuz MS 9 \(S56/57\)](#)  
CDR: Сергей Валерьевич Прокопьев (Sergei Valerevich Prokopyev), Serena [Auñón-Chancellor](#), Alexander Gerst

**June10.** [CZ-3A](#) [FY-2H Fengyun-2H](#)

**June11.** **0400UTC** [H-2A](#) [IGS Radar-6](#)

**June12.** [CZ-2D](#) [GF-6 Gaofen-6, LJ-1 Luojia-1](#)

**June13.** **1428UTC** [Pegasus-XL](#) [ICON \(Helio EX-1\)](#)  
Launch site: [Kwajalein Atoll](#), USA

**June28.** **1003UTC** [Falcon 9](#) [Dragon SpX-15](#)  
Launch site: [Cape Canaveral](#), USA

June?? [Rokot / Briz KMGeo IK 2 13L](#)  
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

June?? [CZ-2C](#) [Pakistani Remote Sensing Satellite \(PRSS\) 1](#)  
Launch site: [Taiyuan](#), China



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June??	<a href="#">Falcon 9</a>	<a href="#">Iridium Next</a> Flight 7 (x10)	120
June??	<a href="#">GSLV</a> MK III D2	GSAT-29	
June??	<a href="#">Falcon 9</a>	Telstar 19	
June??	<a href="#">CZ-3B/YZ-1</a>	<a href="#">Beidou 3</a> MEO M7, <a href="#">Beidou 3</a> MEO M8	
June??	<a href="#">Soyuz-2-1B/ Fregat-M</a>	<a href="#">Glonass-M</a> 59	
??	KZ-11	Xiaoxiang-4	
??	<a href="#">Electron</a>	ELaNa, ...	
??	KZ-1A	Jilin 1-09	
??	KZ-1A	Jilin 1-10	
??	KZ-1A	Jilin 1-11	
??	KZ-1A	Jilin 1-12	
<b>July05.</b>	<a href="#">Falcon 9</a>	<b>Spaceflight SSO-A</b>	
<b>July10.</b>	<a href="#">Soyuz-2 1A</a>	<a href="#">Progress MS 9</a>	
<b>July25. 2041UTC</b>	<a href="#">Ariane 5 ES (VA243)</a>	<a href="#">Galileo-FOC</a> FM19 (Tara), <a href="#">Galileo-FOC</a> FM20 (Samuel), <a href="#">Galileo-FOC</a> FM21 (Anna), <a href="#">Galileo-FOC</a> FM22 (Ellen)	
<b>July31. 0815UTC</b>	<b>Delta 4-H</b>	<b>Parker Solar Probe</b>	
July??	<a href="#">Soyuz-2 1A</a>	Bars-M 3	
July??	<a href="#">Falcon 9</a>	Radarsat C-1, -2, C-3	
July??	<a href="#">Falcon Heavy</a>	STP-02	
July??	<a href="#">Falcon 9</a>	Telstar 18	
July??	<a href="#">Falcon 9</a>	Telkom 4	
??	<a href="#">CZ-3B/YZ-1</a>	<a href="#">Beidou 3</a> MEO M9, <a href="#">Beidou 3</a> MEO M10	100
??	<a href="#">Ariane 5</a> ECA	GEO-KOMPSAT-2A	
<b>Aug16.</b>	<b>H-2B (F7)</b>	<b>HTV7</b>	
<b>Aug21.</b>	<a href="#">Vega (VV12)</a>	<b>Aeolus / ADM</b>	
<b>Aug30.</b>	<a href="#">Falcon 9 (SPx-DM1)</a>	<b>Dragon v2 unmanned test</b>	
Aug??	<a href="#">Ariane 5</a> ECA	<a href="#">Azerspace 2</a> (Intelsat 38)	
Launch site: <a href="#">Kourou</a> , French Guiana			
Aug??	<a href="#">CZ-3C</a>	<a href="#">Beidou 2</a> I7	
Aug??	<a href="#">CZ-11</a>	OKW-2	
Aug??	<a href="#">Falcon 9</a>	<a href="#">Iridium Next</a> Flight 8 (x10)	
??	<a href="#">PSLV</a> C42	??	
??	<a href="#">Rokot / Briz KM</a>	Rodnik	
<b>Sep12. 1246UTC</b>	<b>Delta II 7320-10C</b>	<b>ICESat-II</b>	
<b>Sep19. 0047UTC</b>	<a href="#">Soyuz ST B/Fregat-M</a>	<b>MetOp-C</b>	
<b>Sep26.</b>	<b>Delta 4-H</b>	<b>NROL-71</b>	
Sep??	<a href="#">Proton-M/ DM-03</a>	<a href="#">Glonass K</a>	
Sep??	<a href="#">Falcon 9</a>	GPS III-1	



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Sep??	<a href="#">CZ-2C</a>	CFOSAT (China-France Oceanography SATellite)	
Sep??	<a href="#">Falcon 9</a>	SAOCAM-1A, ITASAT-1	
Sep??	<a href="#">GSLV</a> MK II F12	GSAT-7A	
??	<a href="#">Ariane 5</a> ECA	Eutelsat 7C	
??	<a href="#">Falcon 9</a>	OHB SARah satellite (x2)	80
??	<a href="#">Ariane 5</a> ECA	Hellas-Sat-4	
??	<a href="#">Proton-M/Briz-M</a>	EutelSat 5 West B / MEV	
??	<a href="#">H-2A</a>	GOSAT-2	
<b>Oct05.</b>	<a href="#">Ariane 5</a>	<a href="#">BepiColombo</a> ESA and ISAS Mercury Orbiters	
<b>Oct11.</b>	<a href="#">Soyuz-2 1A</a> <a href="#">Soyuz MS 10 (S57/58)</a>		
	CDR: <b>Алексей Николаевич Овчинин (Aleksei Nikolaevich Ovchinin)</b> , <b>Tyler Hague</b>		
<b>Oct18.</b>	<a href="#">Atlas 5 (531) (AV073)</a>	<a href="#">AEHF-4</a>	
<b>Oct22.</b>	<a href="#">Proton-M/Briz-M</a>	<a href="#">Elektro L - 3</a>	
Oct??	<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		
Oct??	<a href="#">GSLV</a> Mk II D9	Chandrayaan 2	
	Launch site: <a href="#">Satish Dhawan Space Centre</a> , Sriharikota, India		
Oct??	<a href="#">CZ-3C</a>	Beidou 3 G1Q	
Oct??	<a href="#">Soyuz-2-1B/Fregat-M</a>	<a href="#">Glonass-M</a> 60	
Oct??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 10	
??	<a href="#">Ariane 5</a>	Horizon 3e	
??	<a href="#">Falcon H</a>	Arabsat 6A	
<b>Nov08.</b>	<a href="#">Antares 230</a>	<a href="#">Cygnum Orb-10E</a>	
<b>Nov18.</b>	<a href="#">Falcon 9 FT</a>	<a href="#">Dragon SpX-16</a>	
<b>Nov27.</b>	<a href="#">Atlas 5 N22 (AV80)</a>	<a href="#">CST-100 Starliner (unmanned test)</a>	
Nov??	<a href="#">Vega</a>	<a href="#">Prisma</a>	
	Launch site: <a href="#">Kourou</a> , French Guiana		
Nov??	<a href="#">CZ-5 Y3</a>	SJ-18 02 (DFH-5 platform)	
Nov??	<a href="#">Soyuz ST B/Fregat-MT</a>	OneWeb smalsat (x32)	60
??	<a href="#">Epsilon</a> (4)	Inovative Technology Demonstration Satellite - 1, OrigamiSat-1	
	Launch site: <a href="#">Tanegashima</a> , Japan		
??	Minotaur 1	NROL 111	
??	<a href="#">Falcon 9</a>	Spaceflight GTO.C	
??	<a href="#">CZ-2D</a>	GF-7 Gaofen-7	
??	<a href="#">CZ-3B/E</a>	Apstar-6D	
??	<a href="#">Falcon 9</a>	PSN VI	
<b>Dec20.</b>	<a href="#">Soyuz-2 1A</a> <a href="#">Soyuz MS 11 (S58/59)</a>		



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**CDR:** Олѐг Дмїтриевич Кононѐнко (Oleg Dmitrievich Kononenko), Anne McClain (NASA), David Saint-Jaques

## Dec31. [Falcon 9 \(SPx-DM2\)](#) Dragon v2

**CDR:** Eric Boe, Sunita Williams

Dec?? [CZ-3B/GIII](#) Chang'e-4 (Moon far side Aitken Basin lander/rover)  
 Dec?? ?? Korean Pathfinder Lunar Orbiter  
 Dec?? [Soyuz ST B/Fregat-MT](#) CHEOPS (Characterising ExOPlanet Satellite)  
 Dec?? [Soyuz ST B/Fregat-MT](#) OneWeb smalsat (x10)  
 Dec?? [Soyuz-2-1B/Fregat M](#) Meridian 18L  
 Dec?? [Soyuz-2-1B/ Fregat-M](#) Glonass K 15  
 Dec?? [Soyuz-2 1A / Fregat](#) Kanopus V 5, Kanopus V 6

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

?? [Falcon 9](#) Es'hail 2  
 ?? [Delta IV-M \(5,4\)](#) WGS 10  
 ?? Minotaur-4 FORMOSAT-7 (6 sat)  
 ?? [Atlas 5](#) AEHF 5 40

?? [Soyuz-2 1B /Fregat-M](#) Tundra 3  
 ?? [Soyuz-2 1B /Fregat-M](#) Tundra 4  
 ?? [Soyuz-2 1B /Fregat-M](#) Neutron (Kosmos)  
 ?? [Angara A5/ Briz-M](#) Kosmos

?? [Vega](#) MN35-13 B [Morocco EO Sat 1](#) 2

?? [Ariane 5](#) ECA [GSAT-11](#)

?? [CZ-3B/YZ-1](#) Beidou 3 MEO M11, Beidou 3 MEO M12  
 ?? [CZ-3B/YZ-1](#) Beidou 3 MEO M13, Beidou 3 MEO M14  
 ?? [CZ-3B/YZ-1](#) Beidou 3 MEO M15, Beidou 3 MEO M16  
 ?? [CZ-3B/YZ-1](#) Beidou 3 MEO M17, Beidou 3 MEO M18

?? ?? Taurus-1  
 Launch site: [Taiyuan](#), China

?? [CZ-2D](#) SJ-12 Shijian-12 (2)  
 ?? [CZ-2D](#) TH-2 Tianhui-2  
 ?? [CZ-2C](#) CSES-1 Earthquake electromagnetism monitor satellite  
 ?? ?? VeneSat-2  
 ?? [CZ-3B/E](#) CC-1 [Changcheng-1](#)  
 ?? CZ Deep Space Solar Observatory  
 ?? CZ-2 CAS-2A1, CAS-2A2

?? [CZ-3B/E](#) CongoSat 1

?? ?? Small Military Meteorological Satellite (x6) 20

?? CZ FY-3E Fengyun-3E  
 ?? CZ FY-4B Fengyun-4B

?? [CZ-4B](#) [Haiyang-1C](#) HY-1C



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Launch site: [Taiyuan](#), China

?? CZ-?? [CAS-4A, CAS-4B](#)

Launch site: [Taiyuan](#), China

?? CZ-4B HY-1D Haiyang-1D  
 ?? CZ-4B HY-2B Haiyang-2B

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

?? CZ Orbita-1 1  
 ?? CZ Huaizong-1  
 ?? [LS-1](#) LandSpace-1 (China)

?? [CZ-3B](#)/YZ-1 ZX-6C Zhongxing-6C  
 ?? [CZ-2D](#) SaudiSAT 5B  
 ?? CZ YG-32 [Yaogan Weixing](#) 32  
 ?? CZ?? Tianzhi-1

?? [PSLV](#) Cartosat-3

?? [Simorgh](#) [Dosti](#)

Launch site: [Semnan](#), Iran

?? [Safir 1 B](#) Tadbir  
 ?? Safir 3A Pars sepher

?? [Unha-3](#) Kwangmyŏngsŏng-5

8 + 21  
 40 + 137

## 2019.

Jan?? [Proton-M/Briz-M](#) Ямал-601

?? [Falcon 9](#) SAOCAM-1B, SAOCAM-1C  
 ?? [Soyuz-2-1B/Fregat-M](#) Meteor M-2-2, Ionosfera 3, Ionosfera 4

**Feb01.** [Falcon 9](#) [Dragon SpX-17](#)

**Feb06.** [Soyuz-2](#) [Progress MS 11](#)

Feb?? [CZ-3C](#) Beidou 3 I1Q  
 Feb?? [Atlas 5](#) 551 (AV-086) AEHF-6

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

Mar?? [Ariane 5](#) ECA GEO-KOMPSAT-2B , Cheollian 2B  
 Mar?? [Falcon 9](#) GPS IIIA-2

?? [Atlas 5](#) 422 (AV082) CST-100 Starliner

**CDR:** Douglas **Hurley**, Robert **Behnken**



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?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x32)  
 ?? [Soyuz-2-1B](#)/[Fregat](#) Glonass K2 / 13  
 ?? [Soyuz-2-1B](#) EgyptSat A  
 ?? [Soyuz ST](#) B/[Fregat](#)-MT Cosmo-SkyMed Secon Gen 1 CSG-1  
 ?? [Vega](#) TARANIS

?? [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.

Apr?? ?? GOES-T  
 Apr?? [CZ-3B/E](#) Nicasat 1  
 Apr?? [CZ-3C](#) Beidou 3 I2Q 100  
 Apr?? [Atlas 5](#) 531 [Cygnus](#) OA-11  
 Apr?? [Falcon 9](#) Dragon v2 (USCV-1) with 2 astronauts  
 Apr?? [Soyuz-2](#) [Progress MS](#) 12

May?? [Soyuz-2](#) 1A [Soyuz MS](#) 12 (S59/60)  
 CDR: Олѐг Ива́нович **Скрипочка**, (Oleg Ivanovich **Skripotscka**), Андрѐй Николаѐвич **Ба́бкин** (Andrei Nikolaevich **Babkin**), Shannon **Walker**

May?? [Atlas 5](#) 402 CST 100 Starliner (USCV-2) with 2 astronauts  
 May?? [Falcon 9](#) FT [Dragon](#) SpX-18  
 May?? CZ CBERS-4A  
 May?? [Ariane 5](#) ECA EDRS-C (Hylas 3)

June?? [Atlas 5](#) 551 STP-03  
 June?? [CZ-5](#) B Test flight

?? [PSLV](#) RISAT 1A  
 ?? [CZ-3B/G2](#) TECSTAR 1  
 ?? SSLV ??  
 ?? [Soyuz ST](#) B/[Fregat](#)-MT [O3b](#) (FM17-20)  
 ?? [GSLV](#) MK II F10 GISAT

July?? Soyuz 2-1A [Soyuz MS](#) 13 (S60/61)  
 CDR: **Скворцов** (Alexander **Skvortsov**), Luca **Parmitano** (ESA), Andrew **Morgan** (NASA)

July?? [CZ-3C](#) Beidou 3 I3Q  
 July?? H-2B (F9) HTV8

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

Aug?? [Soyuz ST](#) B/[Fregat](#)-MT EarthCare  
 Aug?? [Soyuz-2](#) [Progress MS](#) 13 80  
 Aug?? [Proton-M](#) MLM

?? [Delta IV](#) GPS IIIA-3

Sep?? [Atlas 5](#) 552 Dream Chaser Cargo System SNC-1

Oct?? Soyuz 2-1A [Soyuz MS](#) 14 (S61/62)  
 CDR: **Борисенко** (Andrei Borisenko), **Чуб**, (Nikolai Chub), Christina **Koch**

Oct?? [CZ-3B](#)/YZ-1 Beidou 3 MEO M19, Beidou 3 MEO M20



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Oct??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	<a href="#">Gonets</a> x 3 (No 27,28,29)	
Oct??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Resurs №5	
Oct??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-19	
<b>Nov14.</b>	<b><a href="#">Soyuz-2</a> 1B</b>	<b>Progress M-UM</b>	
<b>Nov29.</b>	<b><a href="#">Soyuz-2</a> 1a / <a href="#">Fregat</a></b>	<b>Luna 25 (Luna-Glob-1)</b>	
Nov??	<a href="#">Falcon 9</a>	USCV-3 (US Commercial Vehicles)	
CDR: ??(NASA), ??(NASA), ??(RF)			
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Glonass K2 / 14	
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	Blagovest 14	
??	<a href="#">Falcon 9</a>	GPS IIIA-4	
??	<a href="#">Vega</a>	Seosat (Ingenio)	
Dec??	<a href="#">CZ-3B</a> /YZ-1	Beidou 3 MEO M21, Beidou 3 MEO M22	
Dec??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	Ekspress 80, Ekspress 103	
??	<a href="#">Atlas 5</a> 551	AFSPC-7 (X-37B OTV 6)	
??	<a href="#">Falcon 9</a>	Astrium active SARah satellite	
??	<a href="#">Atlas 5</a> 551	Asteroid Retrieval Spacecraft (ARS)	60
??	??	EX-3	
??	<a href="#">Falcon 9</a>	GiSat-1	
??	<a href="#">Vega</a>	Jason-CS A	
??	<a href="#">Vega</a>	OpSis	
??	<a href="#">Vega</a>	VNREDSat	
??	<a href="#">Vega</a>	LOTUSat	
??	<a href="#">Ariane 5</a> ECA	Eutelsat Quantum	
??	<a href="#">Ariane 5</a> ECA	African Broadband Satellite	
??	<a href="#">Ariane 5</a> ECA	Intelsat 39	
??	<a href="#">Soyuz ST</a> / <a href="#">Vega</a>	MicroCarb	
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	Sentinel-1C	
??	<a href="#">Ariane 5</a>	ViaSat-3	
??	<a href="#">Ariane 5</a>	JCSat 17	
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	SkyTerra 2	
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	Luch 5M	
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	Yenisey A1	
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	<a href="#">Glonass-M</a> 61	
??	<a href="#">Proton-M</a> / DM-03	<a href="#">Glonass-M</a> / 56,57,58	
??	<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> /K18,K19,K20	40
??	<a href="#">Proton-M</a> / DM-03	<a href="#">Glonass-M</a> /K21,K22,K23	
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Glonass K1 / 16	
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	Ямал-501	
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	EutelSat	
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	IntelSat	
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> M	Meridian 19L	
??	<a href="#">Soyuz-2</a> -	Razdan 1	



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??	<a href="#">Angara 1.2</a>	Kosmos	
??	<a href="#">Proton-M/Briz-M</a>	Kosmos	
??	<a href="#">Proton-M/Briz-M</a>	Blagovest 13	
??	<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-2-1B</a>	Obzor R -1	
??	<a href="#">Soyuz-2 1A</a>	Energiya-100	
??	<a href="#">Soyuz-2-1B</a>	Pion	
??	<a href="#">Soyuz-2-1B/ Fregat-M</a>	Glonass K2	
??	<a href="#">Soyuz-2-1B/Fregat</a>	Glonass K2	
??	<a href="#">Proton-M/ DM 3</a>	Kosmos (Repei??)	
??	<a href="#">Proton-M/ DM-03</a>	<a href="#">Glonass-M</a>	20
??	<a href="#">Soyuz-2-1B</a>	Arktika	
??	<a href="#">Soyuz-2 1B /Fregat-M</a>	Resurs №4	
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Kondor-FKA n.º 1	
??	<a href="#">Soyuz ST</a>	CSO 1	
??	<a href="#">Soyuz ST B/Fregat-MT</a>	OneWeb smalsat (x32)	
??	<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	
??	CZ	Sun Fixed-Point Observation	
??	<a href="#">CZ-4B</a>	HY-2C Haiyang-2C	
??	CZ	CBERS-SAR 1	
??	??	Hainan-1 (1)	
??	??	Hainan-1 (2)	
??	??	Hainan-1 (3)	
??	<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	

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## 2020.

Jan??	<a href="#">Falcon 9</a>	<a href="#">Dragon</a> SpX-20
Feb05.	<a href="#">Atlas 5</a>	<a href="#">Solar Orbiter (SoIo) (ESA)</a>
Feb??	H-2B (F10)	HTV9





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Feb??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 14
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?? satellite))	<a href="#">Atlas 5</a> 551	AFSPC-12 (WFOV (Wide Field of View Testbed missile-warning))
??	<a href="#">CZ-5</a>	Tian He Space Station Core Module
Apr??	<a href="#">CZ-3B</a> /YZ-1	Beidou 3 MEO M23, Beidou 3 MEO M24
Apr??	Angara-1.2/AM <a href="#">Gonets</a>	x 3 (No 30,31,32)
??	CZ7	TZ 2 Tianzhou 2 (Logistic Cargo Vehicle)
??	CZ-2F/G	SZ-12 Shenzhou-12
May??	Soyuz 2-1A	<a href="#">Soyuz MS</a> 15 (S62/63)
CDR:	<b>Рыжиков</b> (Sergei Ryshikov), Jessica <b>Meir</b> (NASA), Soichi <b>Noguchi</b> (JAXA)	
May??	<a href="#">Atlas 5</a> 402	USCV-4 (US Commercial Vehicles)
May??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 15
May??	<a href="#">Ariane 5</a> ES	JWST (James Webb Space Telescope)
??	<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??	Ariane	MTG-S1/Sentinel-4A
June??	<a href="#">CZ-3C</a>	Beidou 3 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>	<a href="#">Atlas 5</a> (541)	<a href="#">Mars 2020 rover</a> NASA's exit from a joint sample-collection campaign with Europe aims to send a \$700 million mission to the red planet in 2018 or 2020. The replanned Mars mission, referred to in budget documents as Mars Next Generation, will carry a price tag that falls somewhere between that of the 2013 Maven Scout mission and the 2005 Mars Reconnaissance Orbiter, which cost \$485 million, and more than \$720 million, respectively.
<b>July24.</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 2018. A Russian-built entry, descent and landing package will shepherd the rover to the red planet's surface.
July??	<a href="#">CZ-3C</a>	Beidou 3 G2Q
July??	<a href="#">CZ-5</a>	<a href="#">Mars probe</a> (orbiter + lander + rover)
??	Vega-C	Pleiades Neo 1, Pleiades Neo 2
<b>Aug??</b>	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-21
Sep??	CZ	CBERS-6
Sep??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Glonass K2 / 15
??	CZ-2F/G	SZ-13 Shenzhou-13
??	<a href="#">Falcon 9</a>	GPS IIIA-5



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Oct?? Vega Proba 3

Nov?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-5 (US Commercial Vehicles)  
 Nov?? [Soyuz-2](#) [Progress MS](#) 16  
 Nov?? Soyuz 2-1A [Soyuz MS](#) 16 (S63/64)

**Dec15.** [Atlas 5](#) **Landsat 9**

?? 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).

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

?? [Falcon 9](#) FT [Dragon](#) SpX-22  
 ?? [Antares](#) 230 [Cygnus](#) OA-12

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

?? [Proton-M](#) HЭM-1

?? [Soyuz-2-1B/ Fregat-M](#) Glonass M 55  
 ?? [Soyuz-2-1B/Fregat-M](#) [Glonass-M/](#) 53  
 ?? [Soyuz-2-1B/Fregat](#) Glonass M/ 58  
 ?? [Soyuz-2-1B/Fregat](#) Glonass M / 59

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

?? [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

?? ?? Zond  
 ?? ?? MKA PN6 (Monika)  
 ?? ?? Картограф-0Э №1

?? [Vega](#) Sentinel-2C



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??	<a href="#">Vega</a>	Sentinel-3C
??	??	Seosat-Ingenio-2
??	??	EPS-SG-b
??	<a href="#">Ariane 5</a>	Arsat 3
??	<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.

Jan ?? Ariane 62 Galileo-FOC FM25, Galileo-FOC FM26

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

**Mar30.** [Soyuz-2-1A](#) [Soyuz MS 17](#)

Cdr: xx, Akihiko **Hoshide**, xx

Apr?? [Soyuz ST](#) B/[Fregat](#) M MarcoPolo-R

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

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

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 18](#)

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

July?? Vulcan/Minotaur 6/[Falcon 9](#) v1.1 JPSS-2

July?? [Vega](#) Biomass

**Sep30.** [Soyuz-2-1A](#) [Soyuz MS 18](#)

Sep?? [Soyuz ST](#) B/[Fregat](#)-MT MetOp-SG A1/EPS-SG-a/Sentinel-5A



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Oct??	<a href="#">Atlas 5</a> 401/ <a href="#">Falcon 9</a> v1.1	JPSS Free Flyer 2 (TSIS-2)
Nov??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-7 (US Commercial Vehicles)
??	<a href="#">Ariane 5</a>	MTG-I1
??	<a href="#">Ariane 5</a>	Heinrich Hertz
??	<a href="#">Atlas 5</a> 552	Dream Chaser Cargo System SNC-2
??	<a href="#">Falcon 9</a>	GPS IIIA-6
??	<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> 19	
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Transformable Modul TM
??	<a href="#">Soyuz-2</a> 1a / <a href="#">Fregat</a>	<a href="#">Luna 26</a> (Luna-Resurs OA)
??	<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="#">Vega</a>	Sentinel-1A 2nd Gen
??	<a href="#">Vega</a>	Space Rider
??	<a href="#">Soyuz ST</a> / <a href="#">Vega</a>	Merlin
??	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](#) 20

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)

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

??      CZ-2F/G      SZ-15 Shenzhou-15



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May??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-8 (US Commercial Vehicles)
<b>June04.</b>	<b>SLS Block I</b>	<b>Orion: Exploration Mission 2 (Crew to Cislunar) Mission)</b>
June??	<a href="#">Ariane 5</a> ECA	JUICE (JUperiter ICy moon Explorer)
June??	Ariane 5	MTG-I2
??	Sunkar ??	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 21
Aug??	H2B	Phobos sample return
<b>Sep30.</b>	<b><a href="#">Soyuz-2-1A</a></b>	<b><a href="#">Soyuz MS</a> 20</b>
Sep??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	MetOp-SG B1
Nov??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-9 (US Commercial Vehicles)
??	Sunkar Federatsia (unmaned)	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 22
??	<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="#">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="#">Ariane 5</a>	Moon's south pole samples return mission
??	<a href="#">Vega</a>	Jason-CS B
??	Ariane 5	ATHENA
??	CZ	HY-3C Haiyang-3C
<b>2023.</b>		
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 23
<b>Mar30.</b>	<b><a href="#">Soyuz-2-1A</a></b>	<b><a href="#">Soyuz MS</a> 21</b>
??	CZ7	TZ 5 Tianzhou 5 (Logistic Cargo Vechile)
??	CZ-2F/G	SZ-16 Shenzhou-16
May??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-10 (US Commercial Vehicles)



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??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 24</a>	
<b>Sep30.</b>	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS 22</a>	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 25</a>	
Nov??	<a href="#">Atlas 5 402</a> / <a href="#">Falcon 9</a>		USCV-11 (US Commercial Vehicles)
??	SLS Block IA II		Orion: Exploration Mission 3 (Crew to Cislunar)
??	Sunkar Federatsia		(unmaned 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="#">Vega</a>		Sentinel-2A 2nd Gen
??	CZ		SPORT (Solar Polar Orbit Radio Telescope)
??	CZ		FY-4D Fengyun-4D
??	<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

## 2024

<b>Mar30.</b>	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS 23</a>	
??	CZ7		TZ 6 Tianzhou 6 (Logistic Cargo Vechile)
May??	<a href="#">Atlas 5 402</a> / <a href="#">Falcon 9</a>		USCV-12 (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 26</a>	



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?? [Soyuz-2](#) [Progress MS](#) 27  
 ?? [Soyuz-2](#) [Progress MS](#) 28

?? [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  
 ?? [Soyuz-2-1B/Fregat-M](#) Resurs PM - 4  
 ?? [Angara](#) 1.2 [Gonets](#) x 2, Gonets M  
 ?? [Soyuz-2-1B/Fregat-M](#) Arktika M 4  
 ?? Ямал GK VEO 1  
 ?? [Soyuz-2-1A](#) Obzor P -1  
 ?? [Soyuz-2-1B/Fregat-M](#) Razdan - 3  
 ?? [Soyuz-2-1B/Fregat-M](#) 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)

?? [Soyuz-2-1A](#) [Soyuz MS](#) 25

?? [Soyuz-2](#) [Progress MS](#) 29

?? SLS Block I Europa Clipper

?? [Soyuz-2-1B/Fregat-M](#) Resonans 2A, 2B, MKA-PN5

?? Ямал GK VEO 2

?? Ямал GK VEO 3

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

?? [Soyuz-2-1B/Fregat-M](#) Arktika M 5

?? [Soyuz-2-1B](#) Obzor O -2

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

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

## 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)



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**2069.**

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[Interstellar mission](#)