



# Blog Gorana Hudeca

## Predstojeća lansiranja u Svemir (1.10.2018.)

2018.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in red. Last change 01.Oct.2018.

**Oct05.** [CZ-3B/YZ-1](#) [Beidou 3 MEO M15](#), [Beidou 3 MEO M16](#)  
Launch site: [Xichang](#), China

**Oct07.** 0222UTC [Falcon 9](#) [SAOCAM-1A](#)  
Launch site: [Vandenberg](#), USA

**Oct11.** 0819UTC [Soyuz-2 1A](#) [Soyuz MS 10 \(S57/58\)](#)  
**CDR:** Алексей Николаевич **Овчинин** (Aleksei Nikolaevich **Ovchinin**), Tyler **Hague**  
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

**Oct14.** [Zhuque-1 \(ZQ-1\)](#) [CCTV Weilai-1 \(Future 1\)](#)  
Launch site: [Wenchang](#), China

**Oct17.** 0415UTC [Atlas 5 \(551\) \(AV073\)](#) [AEHF-4](#)  
Launch site: [Cape Canaveral](#), USA

**Oct20.** 0145UTC [Ariane 5 ECA \(VA245\)](#) [BepiColombo](#) ESA and ISAS Mercury Orbiters  
Launch site: [Kourou](#), French Guiana 60

**Oct25.** [CZ-3B/YZ-1](#) [Beidou 3 MEO M17](#), [Beidou 3 MEO M18](#)  
Launch site: [Xichang](#), China

**Oct26.** 0700UTC [Pegasus-XL](#) [ICON \(Helio EX-1\)](#)  
Launch site: [Cape Canaveral](#), USA

**Oct29.** 0408UTC [H-2A \(F40\)](#) [GOSAT-2](#)  
Launch site: [Tanegashima](#), Japan

**Oct29.** [CZ-2C](#) [CFOSAT \(China-France Oceanography SATellite\)](#)  
Launch site: [Jiuquan](#), China

**Oct31.** 0053 UTC [Soyuz-2 1A](#) [Progress MS 10](#)  
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

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

Oct?? [GSLV MK III](#) D2 [GSAT-29](#)  
Oct?? [CZ-4B](#) [HY-2B Haiyang-2B](#)

?? [CZ-??](#) [CAS-5A](#), [CAS-5B](#)  
Launch site: [Jiuquan](#), China

**Nov07.** 0047UTC [Soyuz ST B/Fregat-M VS19](#) [MetOp-C](#)  
Launch site: [Kourou](#), French Guiana

**Nov15.** [Antares 230](#) [Cygnum Orb-10E](#)



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- Nov17.** [LauncherOne](#) **Test Launch**
- Nov25.** [KZ-1A](#) **Jilin 1-09**
- Nov27.** [Falcon 9 FT](#) **Dragon SpX-16**
- Nov?? [Electron](#) Outernet 1, Lemur  
Launch site: [Kaitorete Spit](#), New Zeland
- Nov?? [Falcon 9](#) Spaceflight SSO-A  
Launch site: [Vandenberg](#), USA
- Nov?? [PSLV](#) C43 HySIS  
Nov?? [Soyuz-2-1B/Fregat-M](#) [Glonass-M](#) 57  
Nov?? [CZ-2D](#) Jiading-1
- ?? [Epsilon](#) (4) Inovative Technology Demonstration Satellite – 1, OrigamiSat-1  
Launch site: [Tanegashima](#), Japan **40**
- ?? [Falcon 9](#) [Iridium Next](#) Flight 8 (x10)  
Launch site: [Vandenberg](#), USA
- Dec03.** [Delta 4-H](#) **NROL-71 KH11 17 (Cristal 17)**  
Launch site: [Vandenberg](#), USA
- Dec04.** [Ariane 5](#) VA246 **GSAT-11 / GEO-KOMPSAT-2A (GK2A, Cheollian 2A)** Launch site: [Kourou](#), French Guiana
- Dec06.** [Soyuz-2-1B/Fregat-M](#) **Meteor M-2-2, Ionosfera 3, Ionosfera 4**  
Launch site: Восточный ([Vostochniy](#)) Cosmodrome, Russia
- Dec14.** [Soyuz ST B/Fregat-MT \(VS20\)](#) **CSO 1 (Composante Spatiale Optique-1)**  
Launch site: [Kourou](#), French Guiana
- Dec15.** [Falcon 9](#) **GPS III-1**
- Dec20. 0452UTC** [Soyuz-2 1A](#) [Soyuz MS 11 \(S58/59\)](#)  
**CDR:** Олэг Дмíтриевич Кононёнко (Oleg Dmitrievich Kononenko), Anne McClain (NASA), David Saint-Jaques
- ?Dec26.** [Soyuz-2 1A / Fregat](#) **Kanopus V 5, Kanopus V 6**
- Dec?? [Electron](#) ELaNa XIX  
Launch site: [Kaitorete Spit](#), New Zeland
- Dec?? [CZ-3B/GIII](#) Chang'e-4 (Moon far side Aitken Basin lander/rover)  
Dec?? [Soyuz-2-1B/Fregat M](#) Meridian 18L  
Dec?? [PSLV](#) C44 EMIsat  
Dec?? [CZ-2D](#) GF-7 Gaofen-7  
Dec?? [CZ-11](#) CAS-6  
Dec?? [Soyuz-2-1B](#) EgyptSat A  
Dec?? [Falcon H](#) Arabsat 6A  
Dec?? [CZ-3C](#) [Beidou 3](#) G8  
Dec?? [Falcon 9](#) Es'hail 2  
Dec?? [Falcon 9](#) (SPx-DM1) Dragon v2 unmanned test



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??	<a href="#">Soyuz-2 1A</a>	<a href="#">Bars-M 3</a>	
Launch site: Плесецк ( <a href="#">Plesetsk</a> ) Cosmodrome, Russia			20
??	Minotaur-4	FORMOSAT-7 (6 sat)	
??	<a href="#">Soyuz-2 1B</a> / <a href="#">Fregat-M</a>	Neutron (Kosmos)	
??	??	Taurus-1	
Launch site: <a href="#">Taiyuan</a> , China			
??	CZ??	Tianzhi-1	
??	<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-2D</a>	SaudiSAT 5B	
??	<a href="#">KZ-1A</a>	Jilin 1-10	
??	<a href="#">KZ-1A</a>	Jilin 1-11	
??	<a href="#">KZ-1A</a>	Jilin 1-12	
??	KZ-11	Xiaoxiang-4 Jilin-1 (2A), gamma ray burst detection micro satellite, Yinhe, Xianrikui-1A, Xianrikui-1B, Yijian Duoxing	
??	<a href="#">CZ-3C</a>	Tianlian-2 TL-2	
??	<a href="#">CZ-4B</a>	ZY-3 Ziyuan-3	
??	<a href="#">CZ-2D</a>	Jilin-2 JL-2	
??	<a href="#">CZ-2D</a>	Jilin-3 JL-3	
??	CZ	Huaizong-1	
??	CZ	YG-32 <a href="#">Yaogan Weixing</a> 32	
??	<a href="#">Simorgh</a>	<a href="#">Dosti</a>	
Launch site: <a href="#">Semnan</a> , Iran			

16 + 9  
75 + 65

## 2019.

**Jan03.** [GSLV Mk II D9](#) **Chandrayaan 2**  
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

**Jan23.** [Delta IV-M \(5,4\)](#) **WGS 10**  
Jan?? [CZ-5](#) Y3 SJ-18 02 (DFH-5 platform)  
Jan?? [PSLV](#) C45 RISAT-2B  
Jan?? 1900UTC [Atlas 5](#) N22 (AV80) CST-100 Starliner (unmanned test)

?? [Falcon 9](#) PSN VI  
?? [Soyuz ST B/Fregat-MT](#) CHEOPS (Characterising ExOPlanet Satellite)  
?? [CZ-11](#) Zhuhai-1 Group-3  
?? [Ariane 5](#) ECA Hellas-Sat-4

**Feb07. 0920UTC** [Soyuz-2](#) [Progress MS 11](#)

**Feb17.** [Falcon 9](#) [Dragon SpX-17](#)



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Feb?? [Vega](#) (VV13) [Prisma](#)

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

Feb??	<a href="#">CZ-3C</a>	<a href="#">Beidou 3</a> I1Q
Feb??	<a href="#">Atlas 5</a> 551 (AV-086)	AEHF-6
Feb??	<a href="#">Proton-M/Briz-M</a>	Ямал-601
Feb??	<a href="#">PSLV</a> C46	Cartosat 3
Feb??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x10)

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

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

??	<a href="#">CZ-3B/E</a>	Apstar-6D
??	<a href="#">Ariane 5</a> ECA	Eutelsat 7C
??	<a href="#">Electron</a>	Outernet 2,3
??	<a href="#">GSLV</a> MK II F12	GSAT-7A

Mar??	<a href="#">Proton-M/Briz-M</a>	EutelSat 5 West B / MEV
Mar??	<a href="#">PSLV</a> C47	RISAT-2BR1
Mar??	<a href="#">Falcon Heavy</a>	STP-02

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

??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x32)
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a>	Glonass K2 / 13
??	<a href="#">CZ-3C</a>	<a href="#">Beidou 3</a> G1Q
??	<a href="#">CZ-3B/YZ</a> -1	<a href="#">Beidou 3</a> MEO M17, <a href="#">Beidou 3</a> MEO M18
??	<a href="#">CZ-3B/YZ</a> -1	ZX-6C Zhongxing-6C
??	<a href="#">Proton-M/Briz-M</a>	Blagovest 13

**Apr04.** [Delta IV](#) **GPS IIIA-2**

**Apr05.** [Soyuz-2 1A](#) [Soyuz MS 12 \(S59/60\)](#)

CDR: Олѐг Ива́нович **Скряпочка**, (Oleg Ivanovich **Skripotscka**), Christina **Hammock Koch**, Hazza Al **Mansouri**/Sultan Al **Nayadi**

**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](#) [Cygnus OA-11](#)

Apr?? [Falcon 9](#) (SPx-DM2) [Dragon v2](#)  
CDR: Robert **Benkhen**, Doug **Hurley** 120

Apr??	??	GOES-T
Apr??	<a href="#">CZ-3B/E</a>	Nicasat 1
Apr??	<a href="#">CZ-3C</a>	<a href="#">Beidou 3</a> I2Q
Apr??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 12

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

May??	CZ	CBERS-4A
May??	<a href="#">Ariane 5</a> ECA	EDRS-C (Hylas 3)



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June??	<a href="#">CZ-5 B</a>	Test flight	
June??	<a href="#">Falcon 9</a>	SAOCAM-1B, SAOCAM-1C	
??	<a href="#">CZ-3B/G2</a>	TECSTAR 1	
??	SSLV	??	
??	<a href="#">Soyuz ST</a> B/Fregat-MT	<a href="#">O3b</a> (FM17-20)	
??	<a href="#">GSLV</a> MK II F10	GISAT	
??	<a href="#">Ariane 5</a>	Inmarsat-5 F5	
??	<a href="#">Ariane 5</a> ECA	Eutelsat Quantum	
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	Cosmo-SkyMed Secon Gen 1	CSG-1
??	<a href="#">Ariane 5</a> ECA	Intelsat 39	
??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a> -M	Glonass K 15	
??	Minotaur 1	NROL 111	
??	<a href="#">Atlas 5</a>	AEHF 5	

**July10.** [Soyuz 2-1A](#) [Soyuz MS 13 \(S60/61\)](#)  
 CDR: **Скворцов** (Alexander **Skvortsov**), Luca **Parmitano** (ESA), Andrew **Morgan** (NASA)  
 100

July??	<a href="#">CZ-3C</a>	<a href="#">Beidou 3</a> I3Q
July??	H-2B (F9)	HTV8
July??	<a href="#">Atlas 5</a> 551	STP-03

?? [Atlas 5](#) 422 (AV082) CST-100 Starliner  
 CDR: Eric **Boe**, Chris **Ferguson**, Nicole Aunapu **Mann**

**Aug23.** [Soyuz-2 1A](#) [Soyuz 14 GVK](#)

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

Aug?? [Soyuz ST](#) B/[Fregat](#)-MT EarthCare

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

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

Late - inaugural flight - Vega-C - Kourou ZLV

**Oct11.** [Soyuz 2-1A](#) [Soyuz MS 15 \(S61/62\)](#)  
 CDR : **Тихонов** (**Tikhonov**), **Бабкин** (**Babkin**), **Cassidy**

Oct??	<a href="#">CZ-3B</a> /YZ-1	<a href="#">Beidou 3</a> MEO M19, <a href="#">Beidou 3</a> MEO M20
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
Oct??	<a href="#">Falcon 9</a>	GPS IIIA-3

?? [Ariane 5](#) JCSat 17  
 ?? [Ariane 5](#) ECA GEO-KOMPSAT-2B , Cheollian 2B

**Nov08.** [Proton-M](#) **MLM**

?? [Soyuz-2-1B](#)/[Fregat](#)-M Glonass K2 / 14 80





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??	<a href="#">Proton-M/Briz-M</a>	Blagovest 14	
??	<a href="#">Falcon 9</a>	GPS IIIA-4	
??	<a href="#">Vega</a>	Seosat (Ingenio)	
??	<a href="#">Vega</a> - C	??	
Dec??	<a href="#">CZ-3B/YZ-1</a>	<a href="#">Beidou 3</a> MEO M21, <a href="#">Beidou 3</a> MEO M22	
Dec??	<a href="#">Proton-M/Briz-M</a>	Ekspress 80, Ekspress 103	
Dec??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	CAS500-1	
??	<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	
??	<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="#">Ariane 5</a>	GSAT-30	
??	<a href="#">Vega</a>	OpSis	
??	<a href="#">Vega</a>	Falcon Eye 1	
??	<a href="#">Vega</a>	Falcon Eye 2	
??	<a href="#">Vega</a>	MN35-13 B <a href="#">Morocco EO Sat 1</a> 2	60
??	<a href="#">Proton-M/Briz-M</a>	SkyTerra 2	
??	<a href="#">Proton-M/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="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Glonass K1 / 16	
??	<a href="#">Proton-M/</a> DM-03	<a href="#">Glonass K</a>	
??	<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</a> -1B/ <a href="#">Fregat</a> M	Meridian 19L	
??	<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> -1B	Obzor R -1	40
??	<a href="#">Soyuz-2</a> 1A	Energiya-100	
??	<a href="#">Soyuz-2</a> -1B	Pion	
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Glonass K2	



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??	<a href="#">Soyuz-2-1B/Fregat</a>	Glonass K2	
??	<a href="#">Proton-M/ DM-03</a>	<a href="#">Glonass-M</a>	
??	<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-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-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	
??	<a href="#">CZ-4B</a>	HY-2C Haiyang-2C	
??	CZ	CBERS-SAR 1	20
??	??	Hainan-1 (1)	
??	??	Hainan-1 (2)	
??	??	Hainan-1 (3)	
??	<a href="#">CZ-2D</a>	SJ-12 Shijian-12 (2)	
??	<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="#">GSLV</a> MK II F11	GSAT-10A	
Launch site: <a href="#">Satish Dhawan Space Centre</a> , Sriharikota, India			
??	<a href="#">PSLV</a>	ScatSat, NovaSAR	
??	<a href="#">Safir 1 B</a>	Tadbir	
??	Safir 3A	Pars sepher	



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## 2020.

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

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

Feb?? H-2B (F10)

HTV9

Feb?? [Soyuz-2](#)

[Progress MS](#) 13

?? [Atlas 5](#) 402 CST 100 Starliner (USCV-2)

Cdr: John **Cassada**, Sunita **Williams**

?? [Proton-M/Briz-M](#) Elektro L – 3

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

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

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

DMSP-5D3 F20

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

Glonass K1 / 22

Mar?? [Atlas 5](#) 551

AFSPC-12 (WFOV (Wide Field of View Testbed missile-warning satellite))

?? [CZ-5](#)

Tian He Space Station Core Module

?? [Ariane 5](#)

Galaxy 30 / MEV-2

**Apr15.** [Soyuz 2-1A](#) [Soyuz MS 16 \(S62/63\)](#)

CDR: **Рыжиков** (Sergei Ryshikov), Thomas **Marshburn** (NASA), Soichi **Noguchi** (JAXA)

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

[Beidou 3](#) MEO M23, [Beidou 3](#) MEO M24

Apr?? Angara-1.2/AM [Gonets](#) x 3 (No 30,31,32)

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

?? [Falcon 9](#)

USCV-3 (US Commercial Vehicles)

CDR: ??(NASA), ??(NASA), ??(RF)

?? CZ7

TZ 2 Tianzhou 2 (Logistic Cargo Vehicle)

?? CZ-2F/G

SZ-12 Shenzhou-12

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

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

Progress M-UM

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

ZX-18 Zhongxing-18

June?? SLS-1

Orion (unmanned trip around the Moon) Exploration Mission 1 (Distant Retrograde Orbit (DRO) Tactical DRM)

June?? [Ariane 5](#)

MTG-S1/Sentinel-4A

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

[Beidou 3](#) G3Q

June?? [Vega\\_C](#)

Space Rider flight 1

June?? [Atlas 5](#) 551

AFSPC-8 (GSSAP 5, GSSAP 6)

**July16** [Ariane 62](#)

[Galileo-FOC FM23](#), [Galileo-FOC FM24](#)

**July17.** [Atlas 5](#) (541)

[Mars 2020 rover](#)

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





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of the 2013 Maven Scout mission and the 2005 Mars Reconnaissance Orbiter, which cost \$485 million, and more than \$720 million, respectively.

**July25. [Proton-M/Briz-M](#) **ExoMars (CM+DM)** 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?? [CZ-3C](#) [Beidou 3](#) G2Q  
 July?? [CZ-5](#) [Mars probe](#) (orbiter + lander + rover)

?? Vega-C Pleiades Neo 1, Pleiades Neo 2  
 ?? [Ariane 5](#) ViaSat 3 EMEA

Aug?? [Falcon 9](#) FT [Dragon](#) SpX-21  
 Aug?? [Soyuz-2](#) [Progress MS](#) 14

Sep?? CZ CBERS-6  
 Sep?? [Soyuz-2-1B/Fregat-M](#) Glonass K2 / 15

?? CZ-2F/G SZ-13 Shenzhou-13  
 ?? [Falcon 9](#) GPS IIIA-5

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

Oct?? Vega Proba 3  
 ?? [Atlas 5](#) 402 USCVC-4 (US Commercial Vehicles)

Nov?? [Soyuz-2](#) [Progress MS](#) 15

**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  
 ?? ?? HypsIRI  
 ?? 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



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??	<a href="#">Proton-M/</a> DM-03	<a href="#">Glonass-M/</a> K18,K19,K20
??	<a href="#">Soyuz-2-1B/</a> <a href="#">Fregat-M</a>	<a href="#">Resurs PM - 1</a>
??	<a href="#">Soyuz-2-1B/</a> <a href="#">Fregat-M</a>	Meteor M No2-3
??	<a href="#">Angara</a> 1.2	Kompsat-6
??	<a href="#">Soyuz-2-1A/</a> <a href="#">Fregat-M</a>	<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
??	??	Zond
??	??	MKA PN6 (Monika)
??	??	Картограф-ОЭ №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="#">Soyuz ST B/</a> <a href="#">Fregat-MT</a>	OneWeb smalsat (x32)
??	<a href="#">Soyuz ST B/</a> <a href="#">Fregat-MT</a>	OneWeb smalsat (x32)
??	<a href="#">Soyuz ST B/</a> <a href="#">Fregat-MT</a>	OneWeb smalsat (x32)
??	<a href="#">Vega C</a> 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



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## 2021.

Feb?? [Soyuz-2](#) [Progress MS 16](#)

**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

May?? [Atlas 5 402 / Falcon 9](#) USCV-5 (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 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)

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

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

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

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

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



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??	<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="#">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="#">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
??	<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
??	<a href="#">CZ-2F/G</a>	SZ-15 Shenzhou-15

May?? [Atlas 5 402 / Falcon 9](#) USCVC-7 (US Commercial Vehicles)

## May20. [Ariane 5ECA](#) **JUICE (JUper ICy moon Explorer)**

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

June?? Ariane 5 MTG-I2

??	Sunkar ??	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 20</a>

Aug?? H2B Phobos sample return

## Sep30. [Soyuz-2-1A](#) [Soyuz MS 20](#)

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

Dec?? [Soyuz ST B/Fregat-MT](#) 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="#">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	
<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
May??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-9 (US Commercial Vehicles)
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 23
??	<a href="#">Ariane 5</a>	MTG-S2/Sentinel-4A
<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	
Nov??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-10 (US Commercial Vehicles)
??	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

**Mar30.** [Soyuz-2-1A](#) [Soyuz MS 23](#)

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

May?? [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

?? [Soyuz-2-1B/Fregat-M](#) Resurs PM - 4

?? [Angara](#) 1.2 [Gonets](#) x 2, Gonara M



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??	<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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