



# Blog Gorana Hudeca

## Predstojeća lansiranja u Svemir (27.6.2018.)

2018.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in **red**. Last change **27.June.2018**.

**June29. 0942UTC** [Falcon 9](#) [Dragon SpX-15](#)

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

**July09. 2151UTC** [Soyuz-2 1A](#) [Progress MS 9](#)

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

**July19. 0550UTC** [Falcon 9](#) [Telstar 19](#)

**July19.** [CZ-3C](#) **Beidou 2 I7**

**July20.** [Falcon 9](#) [Iridium Next Flight 7 \(x10\)](#)

**July21.** [CZ-2C](#) [Pakistani Remote Sensing Satellite \(PRSS\) 1](#)

Launch site: [Taiyuan](#), China

**July25. 1124UTC** [Ariane 5 ES \(VA243\)](#) [Galileo-FOC FM19 \(Tara\)](#), [Galileo-FOC FM20 \(Samuel\)](#), [Galileo-FOC FM21 \(Anna\)](#), [Galileo-FOC FM22 \(Ellen\)](#)

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

**July??** [Electron](#) Outerspace 1, Lemur

Launch site: [Kaitorete Spit](#), New Zeland

**??** [Rokot / Briz KMGeo IK 2](#) 13L

Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

July?? [Soyuz-2 1A](#) Bars-M 3

July?? [Soyuz-2-1B/ Fregat-M](#) [Glonass-M](#) 56

July?? [GSLV MK III](#) D2 GSAT-29

?? KZ-11 Xiaoxiang-4

**Aug04. 0757UTC** **Delta 4-H** **Parker Solar Probe**

**Aug21. 2120UTC** [Vega \(VV12\)](#) **Aeolus / ADM**

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

Aug?? [Ariane 5](#) ECA [Azerspace 2](#) (Intelsat 38)

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

100

Aug?? [CZ-11](#) OKW-2

Aug?? [Falcon 9](#) Telkom 4

Aug?? [Falcon 9](#) Es'hail 2

Aug?? [Falcon 9](#) Telstar 18

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

?? Pegasus-XL ICON ([Helio EX-1](#))

Launch site: [Kwajalein Atoll](#), USA



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?? [CZ-3B/YZ-1](#) [Beidou 3](#) MEO M7, [Beidou 3](#) MEO M8  
Launch site: [Xichang](#), China

?? [PSLV](#) C42 ??  
?? [Rokot / Briz KM](#) Rodnik  
?? [Electron](#) ELaNa, ...  
?? [CZ-3B/YZ-1](#) Beidou 3 MEO M9, Beidou 3 MEO M10

?? KZ-1A Jilin 1-09  
?? KZ-1A Jilin 1-10  
?? KZ-1A Jilin 1-11  
?? KZ-1A Jilin 1-12

**Sep12. 1246UTC Delta II 7320-10C ICESat-II**

**Sep26. Delta 4-H NROL-71 KH11 17 (Cristal 17)**  
**Sep30. [Falcon 9](#) Spaceflight SSO-A**

Sep?? [CZ-2C](#) CFOSAT (China-France Oceanography SATellite)  
Sep?? [Falcon 9](#) SAOCAM-1A, ITASAT-1 **80**  
Sep?? [GSLV](#) MK II F12 GSAT-7A  
Sep?? [CZ-11](#) CAS-6  
Sep?? H-2B (F7) HTV7

?? [Ariane 5](#) ECA Eutelsat 7C  
?? [Falcon 9](#) OHB SARah satellite (x2)  
?? [Ariane 5](#) ECA Hellas-Sat-4  
?? [Ariane 5](#) ECA GEO-KOMPSAT-2A (GK2A, Cheollian 2A)

**Oct05. [Ariane 5](#) ECA [BepiColombo](#) ESA and ISAS Mercury Orbiters**  
Launch site: [Kourou](#), French Guiana

**Oct05. [Atlas 5](#) (531) (AV073) AEHF-4**

**Oct06. [Soyuz ST B](#)/Fregat-M MetOp-C**

**Oct11. 0840UTC [Soyuz-2 1A](#) [Soyuz MS 10](#) (S57/58)**  
**CDR: Алексей Николаевич Овчинин (Aleksei Nikolaevich Ovchinin), Tyler Hague**  
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

**Oct22. [Proton-M/Briz-M](#) Elektro L – 3**  
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

**Oct30. [Falcon Heavy](#) STP-02**

**Oct31. 0053 UTC [Soyuz-2 1A](#) [Progress MS 10](#)**

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

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

Oct?? [Soyuz-2-1B/Fregat-M](#) [Glonass-M](#) 60  
Oct?? [Falcon 9](#) GPS III-1



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??	<a href="#">Falcon 9</a> (SPx-DM1)	Dragon v2 unmanned test	
??	<a href="#">Ariane 5</a>	Horizon 3e	60
??	<a href="#">H-2A</a> (F40)	GOSAT-2	
??	<a href="#">Falcon 9</a>	<a href="#">Iridium Next</a> Flight 8 (x10)	
<b>Nov07.</b>	<a href="#">Falcon 9</a>	<b>Radarsat C-1, -2, C-3</b>	
<b>Nov18.</b>	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-16	
<b>Nov21.</b>	<a href="#">Antares</a> 230	<a href="#">Cygnus</a> Orb-10E	
<b>Nov27.</b>	<a href="#">Atlas 5</a> N22 (AV80)	<b>CST-100 Starliner (unmanned test)</b>	
Nov??	<a href="#">Vega</a>	<a href="#">Prisma</a>	
Launch site: <a href="#">Kourou</a> , French Guiana			
Nov??	<a href="#">CZ-5</a> Y3	SJ-18 02 (DFH-5 platform)	
Nov??	<a href="#">Proton-M/Briz-M</a>	Blagovest 13	
Nov??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	Cosmo-SkyMed Secon Gen 1 CSG-1	
??	<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="#">CZ-2D</a>	GF-7 Gaofen-7	
??	<a href="#">CZ-3B/E</a>	Apstar-6D	
<b>Dec06.</b>	<a href="#">Soyuz-2-1B/Fregat</a> -M	<b>Meteor M-2-2, Ionosfera 3, Ionosfera 4</b>	
<b>Dec13.</b>	<a href="#">Delta IV</a> -M (5,4)	<b>WGS 10</b>	
<b>Dec20. 0452UTC</b>	<a href="#">Soyuz-2</a> 1A	<a href="#">Soyuz MS</a> 11 (S58/59)	
<b>CDR:</b> Олэг Дмíтриевич Кононѐнко (Oleg Dmitrievich Kononenko), Anne McClain (NASA), David Saint-Jaques			
<b>Dec26.</b>	<a href="#">Soyuz-2</a> 1A / <a href="#">Fregat</a>	<b>Kanopus V 5, Kanopus V 6</b>	
<b>Dec31.</b>	<a href="#">Falcon 9</a> (SPx-DM2)	<b>Dragon v2</b>	
<b>CDR:</b> Eric Boe, Sunita Williams			
Dec??	<a href="#">CZ-3B/GIII</a>	Chang'e-4 (Moon far side Aitken Basin lander/rover)	40
Dec??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	CHEOPS (Characterising ExOPlanet Satellite)	
Dec??	<a href="#">Soyuz-2-1B/Fregat</a> M	Meridian 18L	
Dec??	<a href="#">Soyuz-2-1B/Fregat</a> -M	Glonass K 15	
Dec??	<a href="#">Soyuz-2-1B</a>	EgyptSat A	
Dec??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x10)	
??	<a href="#">Zenit 3 SL</a> / <a href="#">Fregat</a> -SB	Lybid'	
Launch site: Байконур ( <a href="#">Baikonur</a> ) Cosmodrome, Kazakhstan			
??	Minotaur-4	FORMOSAT-7 (6 sat)	
??	<a href="#">Atlas 5</a>	AEHF 5	
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Neutron (Kosmos)	
??	<a href="#">Angara</a> A5/ <a href="#">Briz-M</a>	Kosmos (Repei)	



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??	<a href="#">Vega</a>	MN35-13 B <a href="#">Morocco EO Sat 1 2</a>	
??	<a href="#">CZ-3B/YZ-1</a>	Beidou 3 MEO M11, Beidou 3 MEO M12	
??	<a href="#">CZ-3B/YZ-1</a>	Beidou 3 MEO M13, Beidou 3 MEO M14	
??	<a href="#">CZ-3B/YZ-1</a>	Beidou 3 MEO M15, Beidou 3 MEO M16	
??	??	Taurus-1	
Launch site: <a href="#">Taiyuan</a> , China			
??	<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>	20
??	CZ	Deep Space Solar Observatory	
??	CZ-2	CAS-2A1, CAS-2A2	
??	<a href="#">CZ-3B/E</a>	CongoSat 1	
??	??	Small Military Meteorological Satellite (x6)	
??	CZ	FY-3E Fengyun-3E	
??	CZ	FY-4B Fengyun-4B	
??	<a href="#">CZ-4B</a>	<a href="#">Haiyang-1C</a>	HY-1C
Launch site: <a href="#">Taiyuan</a> , China			
??	CZ-??	<a href="#">CAS-4A, CAS-4B</a>	
Launch site: <a href="#">Taiyuan</a> , China			
??	CZ-4B	HY-1D Haiyang-1D	
??	CZ-4B	HY-2B Haiyang-2B	
??	<a href="#">CZ-3C</a>	<a href="#">Beidou 3 G8</a>	
??	CZ	Orbita-1 1	
??	CZ	Huaizong-1	
??	<a href="#">LS-1</a>	LandSpace-1 (China)	
??	<a href="#">CZ-2D</a>	SaudiSAT 5B	
??	CZ	YG-32 <a href="#">Yaogan Weixing</a> 32	
??	CZ??	Tianzhi-1	
??	<a href="#">PSLV</a>	Cartosat-3	
??	<a href="#">Simorgh</a>	<a href="#">Dosti</a>	
Launch site: <a href="#">Semnan</a> , Iran			
11 + 16			
54 + 115			

## 2019.

Jan?? [Proton-M/Briz-M](#) Ямал-601



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?? [Falcon 9](#) SAOCAM-1B, SAOCAM-1C  
 ?? [Falcon 9](#) PSN VI 120

**Feb07. 0920UTC** [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

?? [Vega](#) SSMS POC (Small Spacecraft Mission Service Proof Of Concept)  
 ?? [Proton-M/Briz-M](#) EutelSat 5 West B / MEV

Mar?? [Ariane 5](#) ECA GEO-KOMPSAT-2B , Cheollian 2B  
 Mar?? [Falcon 9](#) GPS IIIA-2  
 Mar?? [Falcon 9](#) [Dragon](#) SpX-17

?? [Atlas 5](#) 422 (AV082) CST-100 Starliner  
**CDR:** Douglas **Hurley**, Robert **Behnken**

?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x32)  
 ?? [Soyuz-2-1B/Fregat](#) Glonass K2 / 13  
 ?? [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

?? [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.

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

**CDR:** Олѐг Ива́нович **Скри́почка**, (Oleg Ivanovich **Skripotscka**), Christina Hammock **Koch**

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

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



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??	<a href="#">Ariane 5</a>	Inmarsat-5 F5	
??	<a href="#">Ariane 5</a> ECA	Eutelsat Quantum	
July??	Soyuz 2-1A	<a href="#">Soyuz MS</a> 13 (S60/61)	
CDR:	<b>Скворцов</b> (Alexander <b>Skvortsov</b> ), Luca <b>Parmitano</b> (ESA), Andrew <b>Morgan</b> (NASA)		
July??	<a href="#">CZ-3C</a>	Beidou 3 I3Q	
July??	H-2B (F9)	HTV8	
<b>Aug28.</b>	<b><a href="#">Soyuz-2</a> 1A</b>	<b>Soyuz GVK</b>	
Aug??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	EarthCare	80
??	<a href="#">Delta IV</a>	GPS IIIA-3	
Sep??	<a href="#">Atlas 5</a> 552	Dream Chaser Cargo System SNC-1	
Late - inaugural flight - Vega-C - Kourou ZLV			
Oct??	Soyuz 2-1A	<a href="#">Soyuz MS</a> 14 (S61/62)	
??CDR:	<b>Борисенко</b> (Andrei Borisenko), <b>Чуб</b> , (Nikolai Chub), Christina <b>Koch</b>		
Oct??	<a href="#">CZ-3B</a> /YZ-1	Beidou 3 MEO M19, Beidou 3 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	
??	<a href="#">Ariane 5</a>	JCSat 17	
<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)		
Nov??	<a href="#">Proton-M</a>	MLM	
??	<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)	
??	<a href="#">Vega</a> - C	??	
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	
Dec??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	CAS500-1	60
Dec??	<a href="#">Falcon H</a>	Arabsat 6A	
??	<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)	
??	??	EX-3	
??	<a href="#">Falcon 9</a>	GiSat-1	
??	<a href="#">Ariane 5</a> ECA	Eutelsat BB4A (African Broadband Satellite)	
??	<a href="#">Ariane 5</a> ECA	Intelsat 39	
??	<a href="#">Ariane 5</a> ECA	Star One D2	



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?? [Soyuz ST B/Fregat](#)-MT CSO 1 (Composante Spatiale Optique-1)

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

?? [Proton-M/Briz-M](#) SkyTerra 2  
 ?? [Proton-M/Briz-M](#) Luch 5M  
 ?? [Proton-M/Briz-M](#) Yenisey A1  
 ?? [Soyuz-2](#) 1B /[Fregat](#)-M [Glonass-M](#) 61  
 ?? [Proton-M/](#) DM-03 [Glonass-M/](#) 56,57,58  
 ?? [Soyuz-2](#) 1B /[Fregat](#)-M Glonass K1 / 17  
 ?? [Proton-M/](#) DM-03 [Glonass-M/](#)K18,K19,K20 40  
 ?? [Proton-M/](#) DM-03 [Glonass-M/](#)K21,K22,K23  
 ?? [Soyuz-2](#) 1B /[Fregat](#)-M Glonass K1 / 16  
 ?? [Proton-M/](#) DM-03 [Glonass K](#)

?? [Proton-M/Briz-M](#) Ямал-501  
 ?? [Proton-M/Briz-M](#) EutelSat  
 ?? [Proton-M/Briz-M](#) IntelSat

?? [Soyuz-2-1B/Fregat](#) M Meridian 19L  
 ?? [Soyuz-2-](#) Razdan 1

?? [Angara](#) 1.2 Kosmos

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

?? [Proton-M/Briz-M](#) Ямал-GK-1  
 ?? [Proton-M/Briz-M](#) Anik G2V  
 ?? [Proton-M](#) PTK NP

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

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

?? [Soyuz-2-1B/ Fregat](#)-M Glonass K2  
 ?? [Soyuz-2-1B/Fregat](#) Glonass K2  
 ?? [Proton-M/](#) DM-03 [Glonass-M](#)  
 ?? [Soyuz-2-1B](#) Arktika 20  
 ?? [Soyuz-2](#) 1B /[Fregat](#)-M Resurs №4  
 ?? [Soyuz-2-1B/Fregat](#)-M Kondor-FKA n.º 1  
 ?? [Soyuz-2](#) 1B /[Fregat](#)-M Tundra 3  
 ?? [Soyuz-2](#) 1B /[Fregat](#)-M Tundra 4

?? [CZ-5](#) 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  
 ?? [CZ-4B](#) HY-2D Haiyang-2D  
 ?? CZ Sun Fixed-Point Observation  
 ?? [CZ-4B](#) HY-2C Haiyang-2C



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?? CZ CBERS-SAR 1

?? ?? Hainan-1 (1)

?? ?? Hainan-1 (2)

?? ?? Hainan-1 (3)

?? [GSLV](#) MK II F11 GSAT-10A

Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

?? [PSLV](#) ScatSat, NovaSAR

?? [Safir 1 B](#) Tadbir

?? Safir 3A Pars sepher

?? [Unha-3](#) Kwangmyŏngsŏng-5

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## 2020.

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

**Feb05.** [Atlas 5](#) [Solar Orbiter \(SoI0\)](#) (ESA)

Feb?? H-2B (F10)

HTV9

Feb?? [Soyuz-2](#)

[Progress MS](#) 13

?? [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

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

Progress M-UM

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

?? CZ7

TZ 2 Tianzhou 2 (Logistic Cargo Vehicle)

?? CZ-2F/G

SZ-12 Shenzhou-12

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

May?? Soyuz 2-1A

[Soyuz MS](#) 15 (S62/63)

CDR: **Рыжиков** (Sergei Ryshikov), Jessica **Meir** (NASA), Soichi **Noguchi** (JAXA)

May?? [Atlas 5](#) 402

USCV-4 (US Commercial Vehicles)

May?? [Ariane 5](#) ES

JWST (James Webb Space Telescope)

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

ZX-18 Zhongxing-18





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

**July24. [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

Oct?? Vega Proba 3

Nov?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-5 (US Commercial Vehicles)  
 Nov?? [Soyuz-2](#) [Progress MS](#) 15  
 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



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??	<a href="#">Falcon H</a>	ViaSat 3
??	<a href="#">Falcon 9</a>	KPLO (Korea Pathfinder Lunar Orbiter)
??	<a href="#">Proton-M</a>	HЭM-1
??	<a href="#">Soyuz-2-1B/ Fregat-M</a>	Glonass M 55
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	<a href="#">Glonass-M/ 53</a>
??	<a href="#">Soyuz-2-1B/Fregat</a>	Glonass M/ 58
??	<a href="#">Soyuz-2-1B/Fregat</a>	Glonass M / 59
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	<a href="#">Resurs PM - 1</a>
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Meteor M No2-3
??	<a href="#">Angara 1.2</a>	Kompsat-6
??	<a href="#">Soyuz-2-1A/Fregat-M</a>	<a href="#">Gonets</a> x 6
??	<a href="#">Proton-M/Briz-M</a>	AOneSat-1
??	<a href="#">Proton-M/Briz-M</a>	Terrestar-2
??	<a href="#">Proton-M/Briz-M</a>	SkyTerra 2
??	<a href="#">Proton-M/Briz-M</a>	Ekspress AMU 3 / Ekspress AMU 7
??	<a href="#">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
??	??	Zond
??	??	MKA PN6 (Monika)
??	??	Картораф-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/Fregat-MT</a>	OneWeb smalsat (x32)
??	<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> 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/ Palapa</a> 1N	
??	??	Hainan-1 (4)
??	??	Hainan-1 (5)
??	??	Hainan-1 (6)
??	??	Sanya-1 (1)
??	??	Sanya-1 (2)



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- ?? [GSLV](#) MK III MOM-2 Follow on Mars Mission
- ?? [PSLV](#) EnMap
- ?? [PSLV](#) XL [Aditya'](#)
- ?? H-IIA [Hope](#) (UAE mission to Mars)
- ?? H-IIA Astro H2 (Hitomi-2), SLIM (Smart Lander for Investigating Moon)
- ?? H-IIA Inmarsat-6 F1

## 2021.

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

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

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

?? [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](#) 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

**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-7 (US Commercial Vehicles)

?? [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](#) 1a / [Fregat](#) [Luna 26](#) (Luna-Resurs OA)

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

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



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??	<a href="#">Angara 1.2</a>	<a href="#">Gonets</a> x 3
??	<a href="#">Proton-M/Briz-M</a>	Ekspress-RV1, Ekspress-RV2
??	<a href="#">Proton-M/Briz-M</a>	Ekspress AMU 4
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Smotr R №1
??	<a href="#">Proton-M/Briz-M</a>	IntelSat
??	<a href="#">Proton-M/Briz-M</a>	Elektro L - 4
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Arktika M 2
??	<a href="#">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>	Xuntian Lab module Space station module
??	CZ-2F/G	SZ-15 Shenzhou-15

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

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

## 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](#)



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Nov??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-9 (US Commercial Vehicles)
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</a> 21
??	<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</a> -1B/ <a href="#">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="#">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-10 (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-11 (US Commercial Vehicles)
??	SLS Block IA II	Orion: Exploration Mission 3 (Crew to Cislunar)



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?? Sunkar Federatsia (unmaned flight to ISS)

?? A Russian [Proton/Briz-M](#) (or Angara) rocket to launch the [Laplas-P](#) mission to orbit the moon of Jupiter Ganymede.

?? [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

## 2024

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

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

May?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-12 (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, Gonets M

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



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??	??	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 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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