



# Blog Gorana Hudeca

## Predstojeća lansiranja u Svemir (30.7.2018.)

2018.

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

<b>July31. 0305UTC</b>	<b>CZ-4C</b>	<b>Gaofen-11 (?)</b>
Launch site: <a href="#">Taiyuan</a> , China		
July??	<a href="#">Soyuz-2</a> 1A	<a href="#">Bars-M</a> 3
Launch site: Плесецк ( <a href="#">Plesetsk</a> ) Cosmodrome, Russia		
<b>Aug04. 0519UTC</b>	<b>Falcon 9</b>	<b>Telkom 4</b>
Launch site: <a href="#">Cape Canaveral</a> , USA		
<b>Aug11. 0748UTC</b>	<b>Delta 4-H</b>	<b>Parker Solar Probe</b>
Launch site: <a href="#">Cape Canaveral</a> , USA		
<b>Aug18. 0335UTC</b>	<b>Falcon 9</b>	<b>Telstar 18</b>
Launch site: <a href="#">Cape Canaveral</a> , USA		
<b>Aug21. 2120UTC</b>	<b>Vega (VV12)</b>	<b>Aeolus / ADM</b>
Launch site: <a href="#">Kourou</a> , French Guiana		
Aug??	<a href="#">CZ-11</a>	OKW-2
??	<a href="#">Rokot / Briz KMGeo IK 2</a> 13L	
Launch site: Плесецк ( <a href="#">Plesetsk</a> ) Cosmodrome, Russia		
??	<a href="#">Electron</a>	Outernet 1, Lemur
Launch site: <a href="#">Kaitorete Spit</a> , New Zeland		
??	<a href="#">KZ-11</a>	<a href="#">Xiaoxiang-4</a>
<b>Sep05. 2120UTC</b>	<b>Ariane 5 ECA (VA243)</b>	<b>Azerspace 2 (Intelsat 38) / Horizon 3e</b>
Launch site: <a href="#">Kourou</a> , French Guiana		
<b>Sep05.</b>	<b>Falcon 9</b>	<b>SAOCAM-1A, ITASAT-1</b>
Launch site: <a href="#">Vandenberg</a> , USA		
<b>Sep10. 2232UTC</b>	<b>H-2B (F7)</b>	<b>HTV7</b>
<b>Sep12. 1246UTC</b>	<b>Delta II 7320-10C</b>	<b>ICESat-II</b>
Launch site: <a href="#">Vandenberg</a> , USA		
<b>??Sep16.</b>	<b>Falcon 9 (SPx-DM1)</b>	<b>Dragon v2 unmanned test</b>
<b>Sep24. 0800UTC</b>	<b>Pegasus-XL</b>	<b>ICON (<a href="#">Helio EX-1</a>)</b>
Launch site: <a href="#">Cape Canaveral</a> , USA		
<b>Sep26.</b>	<b>Delta 4-H</b>	<b>NROL-71 KH11 17 (Cristal 17)</b>
Launch site: <a href="#">Vandenberg</a> , USA		
Sep??	<a href="#">CZ-11</a>	CAS-6
Sep??	<a href="#">Falcon 9</a>	Es'hail 2



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Sep??	<a href="#">PSLV</a> C42	<a href="#">SSTL-S1 &amp; NovaSAR-S</a>	
??	<a href="#">Electron</a> <a href="#">ELaNa XIX</a>		
	Launch site: <a href="#">Kaitorete Spit</a> , New Zeland		
??	<a href="#">CZ-3B</a> /YZ-1	Beidou 3 MEO M9, Beidou 3 MEO M10	80
??	KZ-1A	Jilin 1-09	
??	KZ-1A	Jilin 1-10	
??	KZ-1A	Jilin 1-11	
??	KZ-1A	Jilin 1-12	
<b>Oct01.</b>	<a href="#">H-2A</a> (F40)	<b>GOSAT-2</b>	
<b>Oct04.</b>	<a href="#">Atlas 5</a> (551) (AV073)	<b>AEHF-4</b>	
<b>Oct11. 0840UTC</b>	<a href="#">Soyuz-2 1A</a> <a href="#">Soyuz MS 10 (S57/58)</a>		
	<b>CDR:</b> Алексей Николаевич <b>Овчинин</b> (Aleksei Nikolaevich <b>Ovchinin</b> ), Tyler <b>Hague</b>		
	Launch site: Байконур ( <a href="#">Baikonur</a> ) Cosmodrome, Kazakhstan		
<b>Oct19. 0145UTC</b>	<a href="#">Ariane 5</a> ECA (VA245)	<a href="#">BepiColombo</a> ESA and ISAS Mercury Orbiters	
	Launch site: <a href="#">Kourou</a> , French Guiana		
<b>Oct22.</b>	<a href="#">Proton-M/Briz-M</a>	<b>Elektro L – 3</b>	
	Launch site: Байконур ( <a href="#">Baikonur</a> ) Cosmodrome, Kazakhstan		
<b>Oct31. 0053 UTC</b>	<a href="#">Soyuz-2 1A</a>	<a href="#">Progress MS 10</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="#">Falcon 9</a>	Spaceflight SSO-A	
	Launch site: <a href="#">Vandenberg</a> , USA		
Oct??	<a href="#">Soyuz-2-1B/Fregat-M</a>	<a href="#">Glonass-M</a> 60	
Oct??	<a href="#">Falcon 9</a>	GPS III-1	
Oct??	<a href="#">PSLV</a>	Cartosat-3	
Oct??	<a href="#">GSLV</a> MK III D2	GSAT-29	
Oct??	<a href="#">CZ-2C</a>	CFOSAT (China-France Oceanography SATellite)	
??	<a href="#">Falcon 9</a>	<a href="#">Iridium Next</a> Flight 8 (x10)	
	Launch site: <a href="#">Vandenberg</a> , USA		
??	<a href="#">Electron</a>	<a href="#">Outernet 2,3</a>	
<b>Nov07.</b>	<b>0047UTC</b> <a href="#">Soyuz ST B/Fregat-M</a> VS19	<b>MetOp-C</b>	60
<b>Nov07.</b>	<a href="#">Falcon 9</a>	<b>Radarsat C-1, -2, C-3</b>	
	Launch site: <a href="#">Vandenberg</a> , USA		
<b>Nov21.</b>	<a href="#">Antares</a> 230	<a href="#">Cygnum</a> Orb-10E	
<b>??Nov27.</b>	<a href="#">Atlas 5</a> N22 (AV80)	<b>CST-100 Starliner (unmanned test)</b>	
<b>Nov29.</b>	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-16	



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Nov??	<a href="#">CZ-5 Y3</a>	SJ-18 02 (DFH-5 platform)
Nov??	<a href="#">Soyuz-2-1B</a>	EgyptSat A
Nov??	<a href="#">Proton-M/Briz-M</a>	Blagovest 13
Nov??	<a href="#">GSLV MK II</a> F12	GSAT-7A
Nov??	<a href="#">Falcon Heavy</a>	STP-02
Nov??	<a href="#">Ariane 5</a> ECA	Hellas-Sat-4

?? [Epsilon](#) (4) Inovative Technology Demonstration Satellite – 1, OrigamiSat-1  
Launch site: [Tanegashima](#), Japan

??	<a href="#">CZ-2D</a>	GF-7 Gaofen-7
??	<a href="#">Ariane 5</a> ECA	Eutelsat 7C
??	<a href="#">Ariane 5</a> ECA	GEO-KOMPSAT-2A (GK2A, Cheollian 2A)
??	<a href="#">Ariane 5</a>	<a href="#">GSAT-11</a>

**Dec06.** [Soyuz-2-1B/Fregat-M](#) **Meteor M-2-2, Ionosfera 3, Ionosfera 4**

**Dec13.** [Delta IV-M \(5,4\)](#) **WGS 10**

**Dec20. 0452UTC** [Soyuz-2 1A](#) [Soyuz MS 11 \(S58/59\)](#)

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

**Dec26.** [Soyuz-2 1A / Fregat](#) **Kanopus V 5, Kanopus V 6**

Dec?? [Vega](#) (VV13) [Prisma](#)  
Launch site: [Kourou](#), French Guiana 40

Dec??	<a href="#">CZ-3B/GIII</a>	Chang'e-4 (Moon far side Aitken Basin lander/rover)
Dec??	<a href="#">Soyuz-2-1B/Fregat M</a>	Meridian 18L
Dec??	<a href="#">Soyuz-2-1B/ Fregat-M</a>	Glonass K 15
Dec??	Minotaur 1	NROL 111
Dec??	<a href="#">Soyuz ST B/Fregat-MT</a> (VS20)	Cosmo-SkyMed Secon Gen 1 CSG-1
??	<a href="#">Zenit 3 SL /Fregat-SB</a>	Lybid'

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

??	Minotaur-4	FORMOSAT-7 (6 sat)
??	<a href="#">Atlas 5</a>	AEHF 5
??	<a href="#">Falcon 9</a>	OHB SARah satellite (x2)

??	<a href="#">Soyuz-2 1B /Fregat-M</a>	Neutron (Kosmos)
??	<a href="#">Angara A5/ Briz-M</a>	Kosmos (Repei)

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

??	<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: [Taiyuan](#), 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 <span style="float: right;">20</span>



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??	<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	
??	??	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</a> G8	
??	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="#">Simorgh</a>	<a href="#">Dosti</a>	
Launch site: <a href="#">Semnan</a> , Iran			

14 + 13  
62 + 101

## 2019.

Jan??	<a href="#">Proton-M/Briz-M</a>	Ямал-601
Jan??	<a href="#">Falcon H</a>	Arabsat 6A
??	<a href="#">Falcon 9</a>	PSN VI
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	CHEOPS (Characterising ExOPlanet Satellite)

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

**Feb22.**    [Atlas 5](#) 422 (AV082) CST-100 Starliner  
CDR: Douglas Hurley, Robert Behnken, XX YY (Nasa)

Feb??	<a href="#">CZ-3C</a>	Beidou 3 I1Q
Feb??	<a href="#">Atlas 5</a> 551 (AV-086)	AEHF-6

??    [Soyuz-2](#)-1B    Arktika M 1  
Launch site: Восточный (Vostochniy), Cosmodrome, Russia                      120



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

?? [Vega](#) SSMS POC (Small Spacecraft Mission Service Proof Of Concept)  
?? [Proton-M/Briz-M](#) EutelSat 5 West B / MEV  
?? [CZ-3B/E](#) Apstar-6D

Mar?? [Falcon 9](#) GPS IIIA-2  
Mar?? [Falcon 9](#) [Dragon](#) SpX-17  
Mar?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x10)

?? [Falcon 9](#) (SPx-DM2) Dragon v2  
**CDR:** Eric **Boe**, Sunita **Williams**

?? [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

**Apr05.** [Soyuz-2 1A](#) [Soyuz MS 12 \(S59/60\)](#)  
CDR: Олѐг Ива́нович **Скри́почка**, (Oleg Ivanovich **Skripotscka**), Christina Hammock **Koch**, UAE astronaut

**Apr11.** [Proton-M](#) rocket to launch **Spektr-Rentgen-Gamma X-Ray** observatory from Baikonur. 1900 kg Spectr-RG is a joint Russian-German X-ray observatory carrying two telescopes developed and produced by German and Russian partners. The primary instrument is German eRosita, complemented by Russian ART-XC. Main tasks of the project are studies of the sky in X-ray energy range, which can provide clues for the mystery of dark energy.

**Apr17.** [Antares 230](#) [Cygnum OA-11](#)

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

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

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

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

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  
?? [Ariane 5](#) Inmarsat-5 F5  
?? [Ariane 5](#) ECA Eutelsat Quantum  
?? [Soyuz ST](#) B/[Fregat](#)-MT CSO 1 (Composante Spatiale Optique-1)



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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

**Aug28.** [Soyuz-2 1A](#) **Soyuz GVK** 80

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

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

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

Late - inaugural flight - Vega-C - Kourou ZLV

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

Oct?? [Soyuz-2 1B /Fregat](#)-M [Gonets](#) x 3 (No 27,28,29)

Oct?? [Soyuz-2 1B /Fregat](#)-M Resurs N°5

Oct?? [Falcon 9](#) FT [Dragon](#) SpX-19

?? [Ariane 5](#) JCSat 17

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

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

Nov?? [Falcon 9](#) USCV-3 (US Commercial Vehicles)

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

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

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

?? [Falcon 9](#) GPS IIIA-4

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

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

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

Dec?? [Proton-M/Briz-M](#) Ekspress 80, Ekspress 103

Dec?? [Soyuz-2 1B /Fregat](#)-M CAS500-1 60

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

?? [Falcon 9](#) Astrium active SARah satellite

?? [Atlas 5](#) 551 Asteroid Retrieval Spacecraft (ARS)

?? ?? EX-3

?? [Falcon 9](#) GiSat-1

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

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

?? [Ariane 5](#) ECA Star One D2

?? [Vega](#) OpSis

?? [Vega](#) Falcon Eye 1

?? [Vega](#) Falcon Eye 2



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??	<a href="#">Proton-M/Briz-M</a>	SkyTerra 2	
??	<a href="#">Proton-M/Briz-M</a>	Luch 5M	
??	<a href="#">Proton-M/Briz-M</a>	Yenisey A1	
??	<a href="#">Soyuz-2 1B /Fregat-M</a>	<a href="#">Glonass-M</a> 61	
??	<a href="#">Proton-M/ DM-03</a>	<a href="#">Glonass-M/</a>	56,57,58
??	<a href="#">Soyuz-2 1B /Fregat-M</a>	Glonass K1 / 17	
??	<a href="#">Proton-M/ DM-03</a>	<a href="#">Glonass-M/K18,K19,K20</a>	
??	<a href="#">Proton-M/ DM-03</a>	<a href="#">Glonass-M/K21,K22,K23</a>	40
??	<a href="#">Soyuz-2 1B /Fregat-M</a>	Glonass K1 / 16	
??	<a href="#">Proton-M/ DM-03</a>	<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-2-1B/Fregat M</a>	Meridian 19L	
??	<a href="#">Soyuz-2-</a>	Razdan 1	
??	<a href="#">Angara 1.2</a>	Kosmos	
??	<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-2-1B</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-03</a>	<a href="#">Glonass-M</a>	
??	<a href="#">Soyuz-2-1B</a>	Arktika	
??	<a href="#">Soyuz-2 1B /Fregat-M</a>	Resurs №4	20
??	<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="#">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)	



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?? [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 \(SolO\) \(ESA\)](#)

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

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?? [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)





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**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.

**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??	<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	
??	<a href="#">Ariane 5</a>	ViaSat 3 EMEA
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
Oct??	Vega	Proba 3
Nov??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-5 (US Commercial Vehicles)
Nov??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 15
Nov??	Soyuz 2-1A	<a href="#">Soyuz MS</a> 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
??	??	HyspIRI
??	Antares	IMAP/STP-05
??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-22
??	<a href="#">Antares</a> 230	<a href="#">Cygnus</a> OA-12
??	<a href="#">Falcon H</a>	ViaSat 3
??	<a href="#">Falcon 9</a>	KPLO (Korea Pathfinder Lunar Orbiter)
??	<a href="#">Proton-M</a>	H3M-1
??	<a href="#">Soyuz-2</a> 1a / <a href="#">Fregat</a>	Luna 25 (Luna-Glob-1)



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??	<a href="#">Soyuz-2-1B/ Fregat</a> -M	Glonass M 55
??	<a href="#">Soyuz-2-1B/ Fregat</a> -M	<a href="#">Glonass-M/</a> 53
??	<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</a> -M	<a href="#">Resurs PM - 1</a>
??	<a href="#">Soyuz-2-1B/ Fregat</a> -M	Meteor M No2-3
??	<a href="#">Angara</a> 1.2	Kompsat-6
??	<a href="#">Soyuz-2-1A/ Fregat</a> -M	<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</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x32)
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x32)
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x32)
??	<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>



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?? 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

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

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

May?? [Atlas 5](#) 402 / [Falcon 9](#) USCVC-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](#) USCVC-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](#)-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="#">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
??	CZ-2F/G	SZ-15 Shenzhou-15

May?? [Atlas 5 402 / Falcon 9](#) USC8 (US Commercial Vehicles)

## 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

??	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](#) USC9 (US Commercial Vehicles)

Dec??	<a href="#">Soyuz ST B/Fregat-MT</a>	MetOp-SG B1
Dec??	<a href="#">Vega C</a>	FLEX (Fluorescence Explorer satellite)

?? Sunkar Federatsia (unmanned)



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??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 21</a>	
??	<a href="#">Soyuz-2 1a</a> / <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 1.2</a>	<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="#">Ariane 5</a>	Moon's south pole samples return mission	
??	<a href="#">Ariane 5</a>	Comsat NG 2 (Syracuse 4B)	
??	<a href="#">Vega C</a>	Space Rider 3	
??	<a href="#">Vega C</a>	CryoSat FO	
??	CZ	HY-3C Haiyang-3C	

## 2023.

??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 22</a>	
<b>Mar30.</b>	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS 21</a>	
??	CZ7	TZ 5 Tianzhou 5 (Logistic Cargo Vehicle)	
??	CZ-2F/G	SZ-16 Shenzhou-16	
May??	<a href="#">Atlas 5 402</a> / <a href="#">Falcon 9</a>	USCV-10 (US Commercial Vehicles)	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 23</a>	
??	<a href="#">Ariane 5</a>	MTG-S2/Sentinel-4A	
<b>Sep30.</b>	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS 22</a>	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 24</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	(unmanned flight to ISS)	

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

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



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??	<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 C</a>	Space Rider 4
??	<a href="#">Soyuz ST B/Fregat-MT</a>	Sentinel-1C
??	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

### Mar30.

[Soyuz-2-1A](#)

[Soyuz MS 23](#)

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

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

?? ?? 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



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??	??	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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