



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (3.9.2018.)

2018.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in red. Last change 03.Sep.2018.

- Sep08. 2328UTC [Falcon 9](#) [Telstar 18](#)**
Launch site: [Cape Canaveral](#), USA
- Sep10. 2232UTC [H-2B \(F7\)](#) [HTV7](#)**
Launch site: [Tanegashima](#), Japan
- Sep15. 1246UTC [Delta II 7320-10C](#) [ICESat-II](#)**
Launch site: [Vandenberg](#), USA
- Sep15. [PSLV C42](#) [SSTL-S1 & NovaSAR-S](#)**
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India
- Sep20. [KZ-1A Y08](#) [CentiSpace-1 S1](#)**
- Sep25. 2156UTC [Ariane 5 ECA \(VA243\)](#) [Azerspace 2 \(Intelsat 38\) / Horizon 3e](#)**
Launch site: [Kourou](#), French Guiana 80
- Sep26. [Delta 4-H](#) [NROL-71 KH11 17 \(Cristal 17\)](#)**
Launch site: [Vandenberg](#), USA
- Sep30. [CZ-3B/YZ-1](#) [Beidou 3 MEO M11, Beidou 3 MEO M12](#)**
- Sep?? [CZ-4B](#) [Haiyang-1C](#) HY-1C
Launch site: [Taiyuan](#), China
- Sep?? [CZ-11](#) CAS-6
- ?? [Rokot / Briz KMGeo IK 2](#) 13L
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia
- Oct06. 0700UTC [Pegasus-XL](#) [ICON \(Helio EX-1\)](#)**
Launch site: [Cape Canaveral](#), USA
- Oct07. [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 Future 1](#)**
- Oct18. 0307UTC [Atlas 5 \(551\) \(AV073\)](#) [AEHF-4](#)**
Launch site: [Cape Canaveral](#), USA
- Oct19. 0145UTC [Ariane 5 ECA \(VA245\)](#) [BepiColombo](#) ESA and ISAS Mercury Orbiters**
Launch site: [Kourou](#), French Guiana



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- Oct22.** [Proton-M/Briz-M](#) **Elektro L – 3**
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan
- Oct29.** **0408UTC** [H-2A](#) (F40) **GOSAT-2**
Launch site: [Tanegashima](#), Japan
- Oct29.** [CZ-2C](#) **CFOSAT (China-France Oceanography SATellite)**
- 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 III D2 GSAT-29
Oct?? [CZ-3B](#)/YZ-1 Beidou 3 MEO M13, Beidou 3 MEO M14
Oct?? CZ-4B HY-2B Haiyang-2B 60
- Nov07.** **0047UTC** [Soyuz ST B/Fregat-M VS19](#) **MetOp-C**
- Nov21.** [Antares 230](#) [Cygnum Orb-10E](#)
- Nov22.** [Soyuz-2-1B](#) **EgyptSat A**
- Nov30.** [Ariane 5](#) [GSAT-11](#)
- Nov?? [Electron](#) Outernet 1, Lemur
Launch site: [Kaitorete Spit](#), New Zeland
- Nov?? [Falcon 9](#) Spaceflight SSO-A
Launch site: [Vandenberg](#), USA
- Nov?? [Ariane 5](#) ECA Hellas-Sat-4
Nov?? [Falcon 9](#) (SPx-DM1) Dragon v2 unmanned test
Nov?? [Falcon 9](#) Es'hail 2
Nov?? [PSLV](#) C43 **HySIS**
Nov?? [CZ-3B](#)/YZ-1 Beidou 3 MEO M15, Beidou 3 MEO M16
Nov?? [Soyuz-2-1B/Fregat-M](#) [Glonass-M 57](#)
- ?? [Epsilon](#) (4) Inovative Technology Demonstration Satellite – 1, OrigamiSat-1
Launch site: [Tanegashima](#), Japan
- ?? [Falcon 9](#) [Iridium Next](#) Flight 8 (x10)
Launch site: [Vandenberg](#), USA
- ?? [Ariane 5](#) ECA GEO-KOMPSAT-2A (GK2A, Cheollian 2A)
- Dec01.** [Falcon 9](#) FT [Dragon SpX-16](#)
- Dec06.** [Soyuz-2-1B/Fregat-M](#) **Meteor M-2-2, Ionosfera 3, Ionosfera 4**
- Dec14.** [Soyuz ST B/Fregat-MT \(VS20\)](#) **Cosmo-SkyMed Secon Gen 1** **CSG-1**
- Dec15.** [Ariane 5](#) **GSAT-31**
- Dec15.** [Falcon 9](#) **GPS III-1** 40



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Dec20. 0452UTC [Soyuz-2 1A](#) [Soyuz MS 11 \(S58/59\)](#)
CDR: Олѣг Дмїтриевич Кононѣнко (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

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?? Minotaur 1 NROL 111
 Dec?? [Falcon Heavy](#) STP-02
 Dec?? [PSLV](#) C44 **EMIsat**

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

?? [Soyuz-2 1A](#) [Bars-M 3](#)
 Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

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

?? Minotaur-4 FORMOSAT-7 (6 sat)
 ?? [Atlas 5](#) AEHF 5
 ?? [Falcon 9](#) OHB SARah satellite (x2)

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

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

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

?? [CZ-2D](#) GF-7 Gaofen-7 **20**
 ?? CZ?? Tianzhi-1
 ?? [CZ-11](#) LOVEcho
 ?? [CZ-11](#) Fengtai Shaonian-02
 ?? [CZ-2D](#) NuSat 6, 7, 8
 ?? [CZ-2D](#) SaudiSAT 5B

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

?? KZ-11 Xiaoxiang-4

?? [CZ-3C](#) Tianlian-2 TL-2
 ?? [CZ-3C](#) [Beidou 3](#) G8
 ?? [CZ-4B](#) ZY-3 Ziyuan-3



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??	CZ-4B	HY-1D Haiyang-1D
??	CZ-2D	Jilin-2 JL-2
??	CZ-2D	Jilin-3 JL-3
??	CZ	Huaizong-1
??	CZ	YG-32 Yaogan Weixing 32

?? [Simorgh](#) [Dosti](#)
 Launch site: [Semnan](#), Iran

15 + 12
 67 + 84

2019.

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

Jan??	Falcon H	Arabsat 6A
Jan??	CZ-5 Y3	SJ-18 02 (DFH-5 platform)
Jan??	Delta IV-M (5,4)	WGS 10
Jan??	PSLV C45	RISAT-2B

?? [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

Feb07. 0920UTC [Soyuz-2](#) [Progress MS 11](#) 140

Feb??	CZ-3C	Beidou 3 I1Q
Feb??	Atlas 5 551 (AV-086)	AEHF-6
Feb??	Proton-M/Briz-M	Ямал-601
Feb??	PSLV C46	Cartosat 3

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

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

??	CZ-3B/E	Apstar-6D
??	Ariane 5 ECA	Eutelsat 7C
??	Electron	Outernet 2,3
??	GSLV MK II F12	GSAT-7A

Mar??	Falcon 9	GPS IIIA-2
Mar??	Falcon 9	Dragon SpX-17
Mar??	Soyuz ST B/ Fregat -MT	OneWeb smalsat (x10)
Mar??	Proton-M/Briz-M	EutelSat 5 West B / MEV
Mar??	PSLV C47	RISAT-2BR1

??	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

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??	Proton-M/Briz-M	Blagovest 13	
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 Cygnus OA-11		
Apr??	Falcon 9 (SPx-DM2)	Dragon v2	
	CDR: Robert Benkhen , Doug Hurley		
Apr??	??	GOES-T	
Apr??	CZ-3B/E	Nicasat 1	
Apr??	CZ-3C	Beidou 3 I2Q	
Apr??	Soyuz-2	Progress MS 12	
May07.	Falcon 9 FT	Dragon SpX-18	
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	
??	CZ-3B/G2	TECSTAR 1	
??	SSLV	??	
??	Soyuz ST B/Fregat-MT	O3b (FM17-20)	
??	GSLV MK II F10	GISAT	
??	Ariane 5	Inmarsat-5 F5	100
??	Ariane 5 ECA	Eutelsat Quantum	
??	Soyuz ST B/Fregat-MT	CSO 1 (Composante Spatiale Optique-1)	
??	Ariane 5 ECA	Intelsat 39	
??	Soyuz-2-1B/ Fregat -M	Glonass K 15	
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	
??	Atlas 5 422 (AV082)	CST-100 Starliner	
	CDR: Eric Boe , Chris Ferguson , Nicole Aunapu Mann		
Aug28.	Soyuz-2 1A	Soyuz GVK	
Aug??	Soyuz ST B/Fregat-MT	EarthCare	
??	Falcon 9	Dragon v2 (USCV-1)	
	Cdr: Victor Glover , Mike Hopkins		



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??	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	
??	Atlas 5 402	CST 100 Starliner (USCV-2)	
Cdr: John Cassada , Sunita Williams			80
??	Ariane 5	JCSat 17	
??	Ariane 5 ECA	GEO-KOMPSAT-2B , Cheollian 2B	
Nov08.	Proton-M	MLM	
??	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	
??	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	Star One D2	
??	Vega	OpSis	
??	Vega	Falcon Eye 1	60
??	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	
??	Proton-M / DM-03	Glonass-M /K21,K22,K23	
??	Soyuz-2 1B / Fregat -M	Glonass K1 / 16	
??	Proton-M / DM-03	Glonass K	



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??	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	40
??	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	
??	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	
??	CZ	CBERS-SAR 1	20
??	??	Hainan-1 (1)	
??	??	Hainan-1 (2)	
??	??	Hainan-1 (3)	
??	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	
??	CZ	FY-3E Fengyun-3E	



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?? CZ FY-4B Fengyun-4B

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

Launch site: [Taiyuan](#), China

?? CZ Orbita-1 1

?? [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

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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

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 Vechile)

?? 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?? [Soyuz-2](#) 1B Progress M-UM

?? [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.

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

Oct?? Vega Proba 3

?? [Atlas 5](#) 402 USCVC-4 (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



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??	Antares 230	Cygnus OA-12
??	Falcon H	ViaSat 3
??	Falcon 9	KPLO (Korea Pathfinder Lunar Orbiter)
??	Proton-M	НЭМ-1
??	Soyuz-2 1a / Fregat	Luna 25 (Luna-Glob-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-ОЭ №1
??	Ariane 5	Arsat 3
??	Ariane 5	ViaSat-3 Asia
??	Ariane 5 ECA	EDRS-D
??	??	Seosat-Ingenio-2
??	Soyuz ST B/ Fregat -MT	OneWeb smalsat (x32)
??	Soyuz ST B/ Fregat -MT	OneWeb smalsat (x32)
??	Soyuz ST B/ Fregat -MT	OneWeb smalsat (x32)
??	Vega C Cosmo-SkyMed Secon Gen 2	CSG-2
??	CZ-5	Chang'e-6
??	CZ	Two Meter Space Telescope
??	CZ	FY-4C Fengyun-4C
??	CZ	HY-3B Haiyang-3B
??	CZ-3B/ Palapa 1N	
??	??	Hainan-1 (4)
??	??	Hainan-1 (5)



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??	??	Hainan-1 (6)
??	??	Sanya-1 (1)
??	??	Sanya-1 (2)
??	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

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

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)

?? [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



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??	Soyuz-2-1B/Fregat-M	Resurs PM - 2
??	Soyuz-2-1B/Fregat-M	Meteor M No2-4
??	Angara 1.2	Gonets x 3
??	Proton-M/Briz-M	Ekspress-RV1, Ekspress-RV2
??	Proton-M/Briz-M	Ekspress AMU 4
??	Soyuz-2-1B/Fregat-M	Smotr R №1
??	Proton-M/Briz-M	IntelSat
??	Proton-M/Briz-M	Elektro L - 4
??	Soyuz-2-1B/Fregat-M	Arktika M 2
??	Ariane 5	Heinrich Hertz
??	Ariane 5	SES-17
??	Ariane 5	Comsat NG 1 (Syracuse 4A)
??	Soyuz ST B/Fregat-MT	CSO 2 (Composante Spatiale Optique-2)
??	Vega C	Space Rider 2
??	Vega C	CNES/UAE Mars mission
??	Vega-C	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

?? [Soyuz-2](#) [Progress MS 19](#)

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](#) Mengtian Lab module Space station module

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

May?? [Atlas 5 402 / Falcon 9](#) USCV-7 (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 ??

?? [Soyuz-2](#) [Progress MS 20](#)



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Aug??	H2B	Phobos sample return
Sep30.	Soyuz-2-1A	Soyuz MS 20
Nov??	Atlas 5 402 / Falcon 9	USCV-8 (US Commercial Vehicles)
Dec??	Soyuz ST B/ Fregat -MT	MetOp-SG B1
Dec??	Vega C	FLEX (Fluorescence Explorer satellite)
??	Sunkar Federatsia (unmaned)	
??	Soyuz-2	Progress MS 21
??	Soyuz-2 1a / Fregat	Luna 26 (Luna-Resurs OA)
??	Falcon 9	GPS IIIA-9/GPS IIIB-1
??	Falcon 9	GPS IIIA-10/GPS IIIB-2
??	Proton-M/Briz-M	Ekspress – AMU 5
??	Proton-M/Briz-M	Ekspress – AMU 6
??	Proton-M/Briz-M	Ekspress – RV 3, Ekspress – RV 4
??	Angara 1.2	Gonets x 3
??	Proton-M/Briz-M	Eutelsat
??	Proton-M/Briz-M	Intelsat
??	Soyuz-2-1B/Fregat -M	Smotr R №2
??	Soyuz-2-	Razdan 2
??	Proton-M/Briz-M	Elektro L - 5
??	Ariane 5	Moon's south pole samples return mission
??	Ariane 5	Comsat NG 2 (Syracuse 4B)
??	Vega C	Space Rider 3
??	Vega C	CryoSat FO
??	CZ	HY-3C Haiyang-3C
2023.		
??	Soyuz-2	Progress MS 22
Mar30.	Soyuz-2-1A	Soyuz MS 21
??	CZ7	TZ 5 Tianzhou 5 (Logistic Cargo Vechile)
??	CZ-2F/G	SZ-16 Shenzhou-16
May??	Atlas 5 402 / Falcon 9	USCV-9 (US Commercial Vehicles)
??	Soyuz-2	Progress MS 23
??	Ariane 5	MTG-S2/Sentinel-4A
Sep30.	Soyuz-2-1A	Soyuz MS 22
??	Soyuz-2	Progress MS 24
Nov??	Atlas 5 402 / Falcon 9	USCV-10 (US Commercial Vehicles)



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- ?? 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
- ?? [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



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?? [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

?? 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)

2069.

?? ?? [Interstellar mission](#)



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