



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (6.8.2018.)

2018.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in **red**. Last change **06.Aug.2018**. **Next one on 21.Aug.!!! (This year)**

Aug07. 0519UTC	Falcon 9	Telkom 4
Launch site: Cape Canaveral , USA		
Aug11. 0748UTC	Delta 4-H	Parker Solar Probe
Launch site: Cape Canaveral , USA		
Aug21. 2120UTC	Vega (VV12)	Aeolus / ADM
Launch site: Kourou , French Guiana		
Aug24. 0333UTC	Falcon 9	Telstar 18
Launch site: Cape Canaveral , USA		
Aug25.	CZ-3B/YZ-1	Beidou 3 MEO M9, Beidou 3 MEO M10
Aug??	CZ-11	Zhuhai-1 Group-3
??	Rokot / Briz KMGeo IK 2 13L	
Launch site: Плесецк (Plesetsk) Cosmodrome, Russia		
??	Electron	Outernet 1, Lemur
Launch site: Kaitorete Spit , New Zeland		
??	Soyuz-2 1A	Bars-M 3
Launch site: Плесецк (Plesetsk) Cosmodrome, Russia		
??	KZ-11	Xiaoxiang-4
Sep05. 2120UTC	Ariane 5 ECA (VA243)	Azerspace 2 (Intelsat 38) / Horizon 3e
Launch site: Kourou , French Guiana		
Sep05.	Falcon 9	SAOCAM-1A
Launch site: Vandenberg , USA		
Sep10. 2232UTC	H-2B (F7)	HTV7
Sep15. 1246UTC	Delta II 7320-10C	ICESat-II
Launch site: Vandenberg , USA		
Sep24. 0800UTC	Pegasus-XL	ICON (Helio EX-1)
Launch site: Cape Canaveral , USA		
Sep26.	Delta 4-H	NROL-71 KH11 17 (Cristal 17)
Launch site: Vandenberg , USA		
Sep??	CZ-11	CAS-6
Sep??	PSLV C42	SSTL-S1 & NovaSAR-S
		80
??	Electron	ELaNa XIX



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

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

Oct01. [H-2A](#) (F40) **GOSAT-2**

Oct04. [Atlas 5](#) (551) (AV073) **AEHF-4**

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

Oct18. **ZQ-1** **CCTVSat**

Oct19. 0145UTC [Ariane 5](#) ECA (VA245) [BepiColombo](#) ESA and ISAS Mercury Orbiters

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

Oct22. [Proton-M/Briz-M](#) **Elektro L – 3**

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

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?? [Falcon 9](#) Spaceflight SSO-A

Launch site: [Vandenberg](#), USA

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

Oct?? [Falcon 9](#) GPS III-1

Oct?? [PSLV](#) Cartosat-3

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

?? [Falcon 9](#) [Iridium Next](#) Flight 8 (x10)

Launch site: [Vandenberg](#), USA

60

?? [Electron](#) Outernet 2,3

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

Nov07. **0047UTC** [Soyuz ST B/Fregat-M](#) VS19 **MetOp-C**

Nov21. [Antares](#) 230 [Cygnus](#) Orb-10E

Nov29. [Falcon 9](#) FT [Dragon](#) SpX-16

Nov?? [Falcon 9](#) Radarsat C-1, -2, C-3

Launch site: [Vandenberg](#), USA

Nov?? [Soyuz-2-1B](#) EgyptSat A

Nov?? [Proton-M/Briz-M](#) Blagovest 13

Nov?? [GSLV](#) MK II F12 GSAT-7A



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Nov??	Ariane 5 ECA	Hellas-Sat-4	
Nov??	Falcon 9 (SPx-DM1)	Dragon v2 unmanned test	
??	Epsilon (4)	Inovative Technology Demonstration Satellite – 1, OrigamiSat-1	
Launch site:	Tanegashima , Japan		
??	CZ-2D	GF-7 Gaofen-7	
??	Ariane 5 ECA	GEO-KOMPSAT-2A (GK2A, Cheollian 2A)	
??	Ariane 5	GSAT-11	
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??	CZ-3B/GIII	Chang'e-4 (Moon far side Aitken Basin lander/rover)	
Dec??	Soyuz-2-1B/Fregat M	Meridian 18L	
Dec??	Soyuz-2-1B/ Fregat-M	Glonass K 15	
Dec??	Minotaur 1	NROL 111	
Dec??	Soyuz ST B/Fregat-MT	(VS20) Cosmo-SkyMed Secon Gen 1 CSG-1	
Dec??	Falcon Heavy	STP-02	
??	Zenit 3 SL /Fregat-SB	Lybid'	
Launch site:	Байконур (Baikonur) Cosmodrome, Kazakhstan		
??	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	
??	CZ-3B/YZ-1	Beidou 3 MEO M11, Beidou 3 MEO M12	
??	CZ-3B/YZ-1	Beidou 3 MEO M13, Beidou 3 MEO M14	
??	CZ-3B/YZ-1	Beidou 3 MEO M15, Beidou 3 MEO M16	
??	??	Taurus-1	
Launch site:	Taiyuan , China		
??	CZ-2D	SJ-12 Shijian-12 (2)	
??	CZ-2D	TH-2 Tianhui-2	
??	CZ-2C	CSES-1 Earthquake electromagnetism monitor satellite	20
??	??	VeneSat-2	
??	CZ-3B/E	CC-1 Changcheng-1	
??	CZ	Deep Space Solar Observatory	
??	CZ-2	CAS-2A1, CAS-2A2	



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?? [CZ-3B/E](#) CongoSat 1
 ?? ?? Small Military Meteorological Satellite (x6)
 ?? CZ FY-3E Fengyun-3E
 ?? CZ FY-4B Fengyun-4B

?? [CZ-4B](#) [Haiyang-1C](#) HY-1C
 Launch site: [Taiyuan](#), China

?? CZ-?? [CAS-4A, CAS-4B](#)
 Launch site: [Taiyuan](#), China

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

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

?? [CZ-2D](#) SaudiSAT 5B
 ?? CZ YG-32 [Yaogan Weixing](#) 32
 ?? CZ?? Tianzhi-1

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

14 + 13
 63 + 96

2019.

Jan?? [Proton-M/Briz-M](#) Ямал-601
 Jan?? [Falcon H](#) Arabsat 6A
 Jan?? [CZ-5 Y3](#) SJ-18 02 (DFH-5 platform)

?? [Atlas 5](#) N22 (AV80) CST-100 Starliner (unmanned test)

?? [Falcon 9](#) PSN VI
 ?? [Soyuz ST B/Fregat-MT](#) CHEOPS (Characterising ExOPlanet Satellite)

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 120

?? [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



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??	CZ-3B/E	Apstar-6D
??	Ariane 5 ECA	Eutelsat 7C
Mar??	Falcon 9	GPS IIIA-2
Mar??	Falcon 9	Dragon SpX-17
Mar??	Soyuz ST B/ Fregat -MT	OneWeb smalsat (x10)
??	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
??	CZ-3C	Beidou 3 G8

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	100
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

??	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)
??	Ariane 5 ECA	Intelsat 39

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



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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	80
Aug??	Soyuz ST B/Fregat -MT	EarthCare	
??	Falcon 9	Dragon v2 (USCV-1) with 2 astronauts	
	Cdr: Victor Glover, Mike Hopkins		
??	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 №5	
Oct??	Falcon 9 FT	Dragon SpX-19	
??	Atlas 5 402	CST 100 Starliner (USCV-2)	
	Cdr: John Cassada, Sunita Williams		
??	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	60
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	



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??	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	
??	CZ	CBERS-SAR 1	



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?? ?? 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

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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

?? [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

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



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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 USCV-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
 ?? [Antares](#) 230 [Cygnus](#) OA-12

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



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??	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)
??	??	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

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-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](#) USCVC-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

?? [Soyuz-2-1B](#)/[Fregat](#)-M Resurs PM - 2
 ?? [Soyuz-2-1B](#)/[Fregat](#)-M Meteor M No2-4
 ?? [Angara](#) 1.2 [Gonets](#) x 3



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??	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 (JUpter 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](#)

Aug?? H2B Phobos sample return

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

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



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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)
??	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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??	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 (<i>Venera D</i>) 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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