



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (04.09.2017.)

2017.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in red. Last change 04.Sep.2017.

Sep05. 2151UTC [Ariane 5 ECA \(VA239\)](#) [BSat 4a / Intelsat 37e](#)
Launch site: [Kourou](#), French Guiana

Sep07. [Falcon 9 FT](#) [OTV-5 \(X-37B\)](#) 70
Launch site: [Cape Canaveral](#), USA

Sep11. 1923UTC [Proton-M/Briz-M](#) [Amazonas 5](#)
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

Sep12. 2117UTC [Soyuz-2 1A](#) [Soyuz MS 6 \(S53/54\)](#)
CDR: Александр Александрович **МИСУРКИН** (Aleksandr A. Misurkin), Mark T. **Vande Hei**, Joseph M. **Acaba**
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

Sep14. 0701UTC [Atlas 5 541](#) [NROL-42 Trumpet Follow On 2](#)
Launch site: [Vandenberg](#), USA

Sep15. [CZ-11](#) [TY-2, 3, 4, 5 Tianyi](#)
Launch site: [Jiuquan](#), China

Sep22. [Soyuz-2-1B/Fregat-M](#) [Glonass-M/ 52](#)
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

Sep28. 1600UTC [Atlas 5 421 \(AV075\)](#) [NROL-52 \(Quasar 21\)](#)
Launch site: [Cape Canaveral](#), USA

Sep28. 1850UTC [Proton-M/Briz-M](#) [AsiaSat-9](#)
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

Sep?? [CZ-2D](#) ZH-1 Zengheng 1 ([ESEM experimental satellite on Electromagnetism Monitoring](#)),
Ministar-1, Fengmaniu-1

Sep?? [CZ-2D](#) [VRSS-2](#) (Bolivia Remote Sensing Satellite)
Launch site: [Jiuquan](#), China

Sep?? [CZ-2D](#) GF-5 Gaofen-5 60
Sep?? [CZ-4B](#) FY-3D Feng Yun-3D
Sep?? [CZ-3B/G2](#) ZX-6C Zhongxing-6C

?? [CZ-3B/YZ-1](#) [Beidou 3](#) M1& M2
Launch site: [Xichang](#), China

?? [Rokot / Briz KM](#) Geo IK 2

Oct04. 1306UTC [Falcon 9 FT](#) [Iridium Next Flight 3 \(x10\)](#)
Launch site: [Vandenberg](#), USA

Oct09. 2200UTC [H-2A](#) [QZS-4](#)



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Oct12.	0935UTC	Soyuz-2 1A	Progress MS 7	
Oct12.		Rokot / Briz KM	Sentinel-5 Precursor	
Oct17.	2137UTC	Minotaur-C XL	SkySat 8/9/10/11/12	
		Launch site: Vandenberg , USA		
Oct??		Electron	Outerspace 1	
		Launch site: Kaitorete Spit , New Zeland		50
Oct??		Falcon 9 FT	SES 11	
		Launch site: Cape Canaveral , USA		
Nov08.	0100UTC	Vega (VV11)	MN35-13 (Morocco EO Sat 1)	
		Launch site: Kourou , French Guiana		
Nov10.	0947UTC	Delta II 7920-10C	JPSS-1	
		Launch site: Vandenberg , USA		
Nov10.		Antares 230	Cygnus Orb-8	
Nov14.	1528UTC	Pegasus-XL	ICON (Helio EX-1)	
Nov28.		Soyuz-2-1B/Fregat-M	Meteor M-2-1, two MKA N, Ionosfera 1, Ionosfera 2	
Nov??		Falcon 9 FT	Iridium Next Flight 4 (x10)	
		Launch site: Vandenberg , USA		
Nov??		PSLV XL (C40)	IRNSS-1I	
Nov??		CZ-11	Jilin(x2), Fengtai Shaonian 02	
Nov??		Falcon 9 FT	KoreaSat 5A	40
??		Rokot / Briz KM	Gonets x 3 (No 24,25,26), Blits-M	
		Launch site: Плесецк (Plesetsk) Cosmodrome, Russia		
Dec07.		Zenit 3-SLB / DM-SLB	AngoSat	
Dec12.	1830UTC	Ariane 5 ES (VA240)	Galileo-FOC FM15 (Nicole), Galileo-FOC FM16 (Zofia), Galileo-FOC FM17 (Alexandre), Galileo-FOC FM18 (Irina)	
		Launch site: Kourou , French Guiana		
Dec13.		Delta IV-M+(5,2)	NROL-47 (Topaz 5)	
		Launch site: Vandenberg , USA		
Dec16.		Falcon 9 FT	Bangabandhu-1	
Dec17.	0721UTC	Soyuz-2 1A	Soyuz MS 7 (S54/55)	
		CDR: Shkaplerov , Norishige Kanai , Scott Tingle		
Dec17.		Falcon 9 FT	Dragon SpX-13	
Dec22.		Soyuz-2 1A / Fregat Kanopus V 3, Kanopus V 4		
Dec??		CZ-2D	GJ-3 GaoJing-3, GJ-4 GaoJing-4	
Dec??		Falcon H	Demo Flight	30



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Dec??	Falcon 9 FT	SES-16	
Dec??	GSLV Mk II F8	GSAT 6A	
Dec??	Proton-M/Briz-M	Blagovest 12	
??	Falcon 9 FT	PAZ	
??	Soyuz-2-1B	Labirint 11	
??	Soyuz-2-1B	Pion	
??	CZ-3A	FY-2H Fengyun-2H	
??	CZ-2D	GF-6 Gaofen-6	
??	CZ-2	CAS-2A1, CAS-2A2	
??	CZ	YG-32 Yaogan Weixing 31	20
??	CZ	YG-32 Yaogan Weixing 32	
??	CZ	Orbita-1 1	
??	CZ-2D	SaudiSAT 5B	
??	??	LJ-1 Luojia-1	
??	CZ	Huaizong-1	
??	CZ-4C	Hede-1	
??	CZ-3B/E	Alcomsat-1	
??	LS-1	LandSpace-1	
??	CZ-2C	??	
Launch site: Xichang , China			
??	CZ-6	Jilin-1-04 (Lingqiao 1-04), Jilin-1-05 (Lingqiao 1-05), Jilin-1-06 (Lingqiao 1-06), Jilin-1-07 (Lingqiao 1-07)	10
??	CZ-3B/YZ-1	Beidou 3 MEO M3, Beidou 3 MEO M4	
??	CZ-3B/YZ-1	Beidou 3 MEO M5, Beidou 3 MEO M6	
??	CZ-3B/YZ-1	Beidou 3 MEO M7, Beidou 3 MEO M8	
??	CZ-3C	Beidou 3 G8	
??	Epsilon (Jap)	ASNARO 2	
??	H-2A	GCOM-C	
??	H-2A	IGS Optical-6	
??	SS-520-4	Tricom-1R	
??	Simorgh	Dosti (Nahid 1??) (Payam-e Amir Kabir??)	
Launch site: Semnan , Iran			
12 + (10)			
54 + (71)			

2018.

Jan18.	Atlas 5 401 (AV076)	SBIRS-GEO 4
Jan20.	Vega (VV11)	Aeolus / ADM
Jan26.	Falcon 9 FT	Dragon SpX-14
??	Falcon 9 FT	Iridium Next Flight 5 (x10)



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Launch site: [Vandenberg](#), USA

?? [Soyuz-2-1B/Fregat-M](#) [Glonass-M/ 52](#)
 ?? [Falcon 9](#) FT Telstar 18
 ?? [Falcon 9](#) FT Telstar 19
 ?? [PSLV](#) ScatSat

Feb09. [Soyuz-2 1A](#) [Progress MS 8](#)

Feb?? [Falcon 9](#) FT [Iridium Next](#) Flight 6 (x10)
 Feb?? [CZ-3B/YZ-1](#) Beidou 3 MEO M9, Beidou 3 MEO M10
 Feb?? H-2B (F7) HTV7

?? [Soyuz-2-1B/Fregat-M](#) Meteor M-2-2, Ionosfera 3, Ionosfera 4
 ?? [Soyuz ST B/Fregat-MT](#) O3b **140**
 ?? [Zenit 3 SL /Fregat-SB](#) Lybid'
 ?? [PSLV](#) Team Indus

Mar01. [Atlas 5 \(541\)](#) [GOES-S](#)

Mar09. [Falcon 9 \(SPx-DM1\)](#) [Dragon v2](#) unmanned test

**Mar09. [Soyuz-2 1A](#) [Soyuz MS 8 \(S55/56\)](#)
 CDR: [Artemyev](#), Andrew [Feustel](#), Ricky [Arnold](#)**

Mar15. [CZ-3B/GII](#) [APStar-6C](#)

Mar19. [Antares 230](#) [Cygnum Orb-9E](#)

Mar?? [GSLV](#) Mk II D9 Chandrayaan 2
 India's second mission to the moon called *Chandrayaan - II* is likely to be launched by GSLV MkII. The project will include a robotic vehicle that will move around on after achieving a soft landing on the moon.

Mar?? [PSLV](#) Cartosat-3
 Mar?? [CZ-3B/YZ-1](#) Beidou 3 MEO M11, Beidou 3 MEO M12
 Mar?? [Rokot / Briz KM](#) Sentinel 3B
 Mar?? [Falcon 9](#) FT SAOCAM 1A

?? [GSLV](#) MK III D2 GSAT-20
 ?? KZ-1A ??
 ?? KZ-1A ??
 ?? KZ-1A ??
 ?? KZ-1A ??
 ?? [Falcon 9](#) FT **SES-12**
 ?? [Ariane 5](#) ECA Hylas 4 / Al Yah 3
 ?? [Ariane 5](#) ECA Azerspace 2 (Intelsat 38) / **SES 14 GOLD**
 ?? [Ariane 5](#) ECA GSAT-11 **120**
 ?? [Proton-M/ DM 3](#) Kosmos

Apr18. [Atlas 5 551 \(AV81\)](#) [AFSPC-11](#)

**Apr27. [Soyuz-2 1A](#) [Soyuz MS 9 \(S56/57\)](#)
 CDR: [Prokopyev](#), Jeanette J. [Epps](#), Alexander [Gerst](#)**

Apr?? [Falcon 9](#) FT [Iridium Next](#) Flight 7 (x10)
 Apr?? [H-2A](#) GOSAT-2



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Apr??	Epsilon	OrigamiSat-1		
May05.	Atlas 5 401	InSight		
Launch site: Vandenberg , USA				
May??	Ariane 5 ECA	GEO-KOMPSAT-2A		
May??	CZ-3B/YZ-1	Beidou 3 MEO M13, Beidou 3 MEO M14		
June27.	Soyuz-2 1A	Progress MS 9		
June??	CZ	L2 Chang'e 4 communications relay satellite		
June??	CZ-2C	Pakistani Remote Sensing Satellite (PRSS) 1		
June??	Falcon 9 FT	Iridium Next Flight 8 (x5), GRACE FO_1, FO_2		
June??	Falcon 9 FT	TESS		
June??	Atlas 5 422 (AV80)	CST-100 Starliner (unmanned test)		
??	GSLV MK II F11	GSAT-10A		
Launch site: Satish Dhawan Space Centre , Sriharikota, India				
??	Proton-M	PTK NP		
??	Vega	TARANIS		
??	Soyuz ST	CSO 1		
??	Vega	Prisma		
??	Proton-M/Briz-M	Kosmos		100
??	Proton-M/ DM-03	Glonass-M/	??	
??	Soyuz ST B/Fregat-MT	OneWeb smalsat (x10)		
??	Angara A5/ Briz-M	Kosmos		
??	Ariane 5 ECA	Hellas-Sat-4		
July31.	Delta 4-H	Parker Solar Probe		
July??	PSLV	Oceansat-3		
July??	Falcon 9 FT	Radarsat C-1, -2, C-3		
Aug??	CZ-3C	Beidou 2 I7		
Aug??	Soyuz-2	Progress MS 10		
Aug??	Delta IV-M+(4,2)	GPS III-1		
??	Soyuz ST B/Fregat-MT	OneWeb smalsat (x32)		
??	Soyuz-2 1B /Fregat-M	Glonass K1 / 16		
??	Soyuz-2 1B /Fregat-M	Ekspress-RV1		
??	Falcon 9 FT	PSN VI		
??	Atlas 5 (531) (AV073)	AEHF-4		
Sep12.	Delta II 7320-10C	ICESat-II		
Sep15.	Delta 4-H	NROL-71		
Sep30.	Soyuz-2 1A	Soyuz MS 10 (S57/58)		
CDR: Алексей Овчинин (Aleksei Ovchinin), Nick Hague , Ricky Arnold				

Sep?? [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.



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Sep??	CZ-3B/YZ-1	Beidou 3 MEO M15, Beidou 3 MEO M16	80
Sep??	Ariane 5 ECA	DSN 1 (Superbird-8)	
??	Soyuz-2 1B / Fregat -M	Glonass K1 / 17	
??	Ariane 5 ECA	EDRS-C (Hylas 3)	
??	Ariane 5 ECA	Intelsat 7C	
??	Falcon 9	GPS IIIA-2	
Oct05.	Ariane 5	BepiColombo ESA and ISAS Mercury Orbiters	
Oct15.	Ariane 5 ES	JWST (James Webb Space Telescope)	
Oct16.	Soyuz-2	Progress MS 11	
Oct??	Soyuz ST B/ Fregat -M	MetOp-C	
Oct??	CZ-3C	Beidou 3 G1Q	
Oct??	Proton-M/Briz-M	Elektro L - 3	
??	Proton-M/ DM-03	Glonass-M /K18,K19,K20	
??	Ariane 5 ECA	Intelsat 39	
??	Ariane 5	Horizon 3e	
??	Falcon 9 FT	ORS-6	
Nov25.	Proton-M	MLM	
Nov30.	Soyuz-2 1A	Soyuz MS 11 (S58/59)	
CDR: Кононенко (Oleg Kononenko), Serena Auñón-Chancellor, David Saint-Jaques (Can)			
??	Minotaur 1	NROL 111	
??	Soyuz ST B/ Fregat -MT	OneWeb smalsat (x32)	
??	Soyuz-2 1B / Fregat -M	Glonass K1 / 15	60
Dec??	CZ-3B/GIII	Chang'e-4 (Moon far side Aitken Basin lander/rover)	
Dec??	CZ-3B/YZ-1	Beidou 3 MEO M17, Beidou 3 MEO M18	
Dec??	Soyuz-2 1B / Fregat -M	Resurs N°4	
Dec??	??	Korean Pathfinder Lunar Orbiter	
??	Falcon 9 (SPx-DM2)	Dragon v2 manned test	
??	Atlas 5 422 (AV082)	CST-100 Starliner (manned test)	
??	Falcon H	Circumlunar Dragon V2	
??	Falcon 9 FT	Dragon SpX-15	
??	Antares 230	Cygnus Orb-10E	
??	Soyuz-2-1B/Fregat -M	Glonass K2 / 14	
??	Ariane 5	Heinrich Hertz	
??	Falcon 9 v1.2	OHB SARah satellite (x2)	
??	Falcon 9 v1.2	WGS 10	
??	Minotaur-4	FORMOSAT-7 (6 sat)	
??	Atlas 5 551	AFSPC-7	
??	??	AEHF 5	
??	Falcon 9 FT	Es'hail 2	
??	Falcon H	Arabsat 6A	
??	Falcon Heavy	STP-02	



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??	Soyuz-2 1B	Progress M-UM	40
??	Soyuz-2 1A / Fregat	Kanopus V 5, Kanopus V 6	
??	Proton-M/Briz-M	EutelSat 5 West B / MEV	
??	Proton-M/Briz-M	Kosmos	
??	Proton-M/Briz-M	Ямал-601	
??	Proton-M/Briz-M	Ямал-GK-1	
??	Proton-M/Briz-M	EgyptSat 3	
??	Soyuz-2 -1B/ Fregat -M	Smotr R №1	
??	Soyuz-2 -1B/ Fregat M	Meridian 18L	
??	Soyuz-2 1A	Bars-M 3	
??	Soyuz-2 1A	Energiya-100	
??	Soyuz-2 -1B/ Fregat -M	Glonass M 55	
??	Dnepr	UniSat-7	
Launch site: (Dombrovskiy), Russia			
??	Angara 1.2	Kosmos	
??	Ariane 5 ES	Galileo-FOC FM19 (Tara), Galileo-FOC FM20 (Samuel), Galileo-FOC FM21 (Anna), Galileo-FOC FM22 (Ellen)	
??	CZ-2D	SJ-12 Shijian-12 (2)	
??	CZ-2D	TH-2 Tianhui-2	
??	CZ-2C	CSES-1 Earthquake electromagnetism monitor satellite	
??	??	FY-3 Fengyun-3 RM-1	
??	??	VeneSat-2	
??	CZ-3B/E	CC-1 Changcheng-1	20
??	CZ-2D	GF-7 Gaofen-7	
??	CZ	CBERS-SAR 1	
??	CZ	Deep Space Solar Observatory	
??	CZ	CBERS-4B	
??	CZ-3B/E	SupremeSAT-II	
??	CZ-3B/E	CongoSat 1	
??	CZ-3B/E	Apstar-6D	
??	??	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	
??	GSLV MK II	F12	GSAT-7A
??	GSLV MK II	F10	GISAT
??	PSLV		EnMap



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?? [Safir 1 B](#) Tadbir
 ?? Safir 3A Pars sepher
 ?? Tronador II/VEX5 TBD (suborbital)
 Launch site: Puerto Belgrano, Argentina

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2019.

Jan?? [Atlas 5](#) 531 [Cygnum](#) OA-11
 Feb?? [CZ-3C](#) Beidou 3 I1Q
 Feb?? [Falcon 9](#) GPS IIIA-3
 Feb?? H-2B (F9) HTV8
 Feb?? [Atlas 5](#) [Solar Orbiter](#) (SolO) (ESA)

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

Mar30. [Soyuz-2 1A](#) [Soyuz MS 12](#)
 CDR: **Vinogradov**, **Tikhonov**, Shannon **Walker**

Mar?? [Soyuz-2](#) [Progress MS 12](#)
 Mar?? [Vega](#) Seosat (Ingenio)
 Mar?? [Ariane 5](#) ECA GEO-KOMPSAT-2B , Cheollian 2B
 ?? CZ-5 Tian He Space Station Core Module
 ?? [Soyuz ST B/Fregat](#)-MT OneWeb smalsat (x32)
 ?? [Soyuz-2-1B/Fregat](#) Glonass K2 / 13

Apr?? ?? GOES-T
 Apr?? Epsilon SLIM (Smart Lander for Investigating Moon)
 Apr?? [CZ-3B/E](#) Nicasat 1
 Apr?? [CZ-3C](#) Beidou 3 I2Q
 ?? CZ7 TZ 2 Tianzhou 2 (Logistic Cargo Vehicle)

June?? [Atlas 5](#) 551 STP-03
 June?? [Ariane 5](#) MTG-I1
 ?? [PSLV](#) RISAT 1A
 ?? [CZ-3B/G2](#) TECSTAR 1
 July?? [CZ-3C](#) Beidou 3 I3Q
 Aug?? [Soyuz ST B/Fregat](#)-MT EarthCare

Sep30. [Soyuz-2 1A](#) [Soyuz MS 13](#)
 CDR: ??, Luca **Parmitano** (ESA) , Anne **McClain** (NASA)

Sep?? [Soyuz-2-1B/Fregat](#)-M Glonass K1 / 22
 Oct?? [CZ-3B/YZ-1](#) Beidou 3 MEO M19, Beidou 3 MEO M20



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Oct?? [Soyuz-2](#) 1B / [Fregat](#)-M [Gonets](#) x 3 (No 27,28,29)
 Oct?? [Soyuz-2](#) 1B / [Fregat](#)-M Resurs №5

Nov29. [Soyuz-2](#) 1a / [Fregat](#) Luna 25 (Luna-Glob-1)

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

?? Vega Proba 3

Dec?? [CZ-3B](#)/YZ-1 Beidou 3 MEO M21, Beidou 3 MEO M22
 Dec?? [Proton-M](#)/[Briz-M](#) Ekspress 80, Ekspress 103
 Dec?? [Proton-M](#)/[Briz-M](#) Elektro L - 4

?? [Falcon 9](#) v1.1 USCV-1 (US Commercial Vehicles)
 ?? [Atlas 5](#) 402 USCV-2 (US Commercial Vehicles)

?? [Falcon 9](#) FT [Dragon](#) SpX-16
 ?? [Falcon 9](#) FT [Dragon](#) SpX-17
 ?? [Falcon 9](#) FT [Dragon](#) SpX-18

?? [Falcon 9](#) v1.1 Astrium active SARah satellite
 ?? [Falcon 9](#) GPS IIIA-6
 ?? [Falcon 9](#) v1.2 GPS IIIA-7
 ?? [Falcon 9](#) v1.2 GPS IIIA-8
 ?? [Delta IV](#)-M+(4,2)/ [Atlas 5](#) 421 GPS IIIA-9/GPS IIIB-1
 ?? [Delta IV](#)-M+(4,2)/ [Atlas 5](#) 421 GPS IIIA-10/GPS IIIB-2
 ?? [Atlas 5](#) 551 Asteroid Retrieval Spacecraft (ARS)
 ?? ?? EX-3
 ?? ?? AEHF-6

?? [Vega](#) Jason-CS A
 ?? [Vega](#) EarthCare
 ?? [Vega](#) OpSis
 ?? [Vega](#) VNREDSat
 ?? [Vega](#) LOTUSat
 ?? [Vega](#) Cosmo-SkyMed Secon Gen 1 CSG-1

?? [Ariane 5](#) ECA Jabiru 2
 ?? [Ariane 5](#) Arsat 3
 ?? [Ariane 5](#) ECA Jabiru-1
 ?? [Ariane 5](#) ECA Eutelsat Quantum
 ?? [Ariane 5](#) ECA African Broadband Satellite

?? [Soyuz ST](#) / [Vega](#) MicroCarb
 ?? [Soyuz ST](#) B/[Fregat](#)-MT Sentinel-1C
 ?? [Ariane 5](#) ViaSat-3
 ?? [Ariane 5](#) JCSat 17

?? [Soyuz-2](#) [Progress MS](#) 13

?? [Soyuz-2](#)-1A/[Fregat](#)-M Kondor-FKA n.º 1
 ?? [Soyuz-2](#)-1B/[Fregat](#)-M Arktika M 2

?? [Proton-M](#)/[Briz-M](#) SkyTerra 2
 ?? [Proton-M](#)/[Briz-M](#) Ekspress AMU 4



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??	Proton-M/Briz-M	Ekspress AMU 3 / Ekspress AMU 7
??	Proton-M/Briz-M	Luch 5M
??	Proton-M/Briz-M	Yenisey A1
??	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
??	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	Glonass M / 60
??	CZ-5	Chang'e-5 (Sample return)
??	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	HY-3A Haiyang-3A
??	CZ-4B	HY-2C Haiyang-2C
??	PSLV XL	Aditya'

2020.

Jan??	Falcon 9 v1.1	USCV-3 (US Commercial Vehicles)
Mar30.	Soyuz 2-1A	Sojuz MS-15
Mar??	Delta IV-M	DMSP-5D3 F20
Mar??	Soyuz-2-1B/Fregat-M	Glonass K1 / 22
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)
??	CZ-5B	Wentian Lab module
??	CZ-2F/G	Space station module
??		SZ-12 Shenzhou-12
??	CZ-3B/G2	ZX-18 Zhongxing-18
June??	Ariane	MTG-S1/Sentinel-4A
June??	CZ-3C	Beidou 3 G3Q
??	Soyuz ST B/Fregat-MT	MetOp-SG A1/EP-SG-a/Sentinel-5A
??	Proton-M/Briz-M	ExoMars (CM+DM)
July16	Ariane 64	??

July?? [Atlas 5](#) (541) [Mars 2020 rover](#) NASA's exit from a joint sample-collection campaign with Europe aims to send a \$700 million mission to the red planet in 2018 or 2020. The replanned Mars mission, referred to in budget documents as Mars Next Generation, will carry a price tag that falls somewhere between that



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

July?? [CZ-3C](#) Beidou 3 G2Q
 ?? CZ 5 [Mars probe](#) (orbiter + lander + rover)

Aug05. [Proton-M/Briz-M](#) **ExoMars** 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.

Sep30. **Soyuz 2-1A** **Sojuz MS-16**
 Sep?? CZ CBERS-6
 Sep?? [Soyuz-2-1B/Fregat-M](#) Glonass K2 / 15
 ?? CZ-2F/G SZ-13 Shenzhou-13

Dec?? [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.

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
??	Atlas 5 402	USCV-4 (US Commercial Vehicles)
??	Falcon 9 FT	Dragon SpX-19
??	Falcon 9 FT	Dragon SpX-20
??	Falcon 9 FT	Dragon SpX-21
??	Antares 230	Cygnus OA-12
??	Atlas 5 552	Dream Chaser Cargo System SNC-1
??	Falcon H	ViaSat 3
??	Proton-M	HЭM-1
??	Soyuz-2	Progress MS 14
??	Soyuz-2	Progress MS 15
??	Soyuz-2	Progress MS 16
??	Soyuz-2-1B/Fregat-M	Arktika M 3
??	Soyuz-2-1B/Fregat-M	Glonass K2
??	Soyuz-2-1B/Fregat-M	Resurs PM - 1
??	Soyuz-2-1B/Fregat-M	Meteor M No2-3
??	Angara 1.2	Kompsat-6
??	Proton-M/Briz-M	Elektro L - 5



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??	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
??	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
??	Vega	Sentinel-2C
??	Vega	Sentinel-3C
??	??	Biomass
??	??	Seosat-Ingenio-2
??	??	EPS-SG-b
??	CZ5	Chang'e-6
??	CZ	Two Meter Space Telescope
??	CZ	FY-4C Fengyun-4C
??	CZ	HY-3B Haiyang-3B
??	CZ-3B/ Palapa 1N	
??	GSLV MK III	MOM-2 Follow on Mars Mission
??	H-IIA	Hope (UAE mission to Mars)
2021.		
??	Soyuz-2	Progress MS 17
Mar30.	Soyuz-2-1A	Sojuz MS-17
Apr??	Soyuz ST B/ Fregat M	MarcoPolo-R
June??	Atlas 5 402 / Falcon 9	USCV-5 (US Commercial Vehicles)
??	CZ7	TZ 3 Tianzhou 3 (Logistic Cargo Vehicle)
??	Soyuz-2	Progress MS 18
??	CZ-2F/G	SZ-14 Shenzhou-14
July??	Vulcan/Minotaur 6/ Falcon 9 v1.1	JPSS-2
Aug??	SLS Block I	Orion: Exploration Mission 2 (Crew to Cislunar) Mission)
Sep30.	Soyuz-2-1A	Sojuz MS-18
Oct??	Atlas 5 401/ Falcon 9 v1.1	JPSS Free Flyer 2 (TSIS-2)



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Oct??	Sunkar	Federatsia (unmaned)
Dec??	Atlas 5 402 / Falcon 9	USCV-6 (US Commercial Vehicles)
??	Atlas 5 552	Dream Chaser Cargo System SNC-2
??	SLS Block I	Europa Clipper
??	Soyuz-2	Progress MS 19
??	Soyuz-2 -1B/ Fregat -M	Transformable Modul TM
??	Soyuz-2 1a / Fregat	Luna 26 (Luna-Resurs OA)
??	Soyuz-2 1B / Fregat -M	Ekspress-RV2
??	Soyuz-2 -1B/ Fregat -M	Resurs PM - 2
??	Soyuz-2 -1B/ Fregat -M	Meteor M No2-4
??	Soyuz-2 -1B/ Fregat -M	Meteor M No2-5
??	Soyuz-2 -1B/ Fregat -M	Meteor M No3
??	Angara 1.2	Gonets x 3
??	Soyuz-2 -1B	Obzor R -1
??	Angara A5P/DM03	Lutch 5 - 2
??	Soyuz-2 -1b	Bion-M No. 2
??	Vega	Sentinel-1A 2nd Gen
??	Vega	Space Rider
??	Soyuz ST / Vega	Merlin
??	CZ	Venus Global Sensing Probe
??	CZ	FY-3G Fengyun-3G (Batch 2)

2022.

Jan?? ?? Solar Sentinels

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](#) Sojuz MS-19

Apr??	Angara A5/ DM 03	Elektro M - 1-2
??	CZ7	TZ 4 Tianzhou 4 (Logistic Cargo Vechile)
??	CZ-5B	Xuntian Lab module Space station module
??	CZ-2F/G	SZ-15 Shenzhou-15
June??	Ariane 5 ECA	JUICE (JUperiter ICy moon Explorer)
June??	Ariane 5	MTG-I2
June??	Atlas 5 402 / Falcon 9	USCV-7 (US Commercial Vehicles)

Aug?? H2B Phobos sample return

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



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Sep?? [Soyuz ST B/Fregat](#)-MT MetOp-SG B1

Dec?? [Atlas 5](#) 402 / [Falcon 9](#) USC8V-8 (US Commercial Vehicles)

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

?? [Soyuz-2](#) [Progress MS](#) 21

?? [Soyuz-2](#) [Progress MS](#) 22

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

?? [Proton-M/Briz-M](#) Ekspress – AMU 5

?? [Proton-M/Briz-M](#) Ekspress – AMU 6

?? [Proton-M/Briz-M](#) Ekspress – RV 4

?? [Angara](#) 1.2 [Gonets](#) x 3

?? [Angara](#) A5P/DM03 Lutch 5 – 3

?? ?? Ямал GK 2

?? [Ariane 5](#) Moon's south pole samples return mission

?? [Vega](#) Jason-CS B

?? Ariane 5 ATHENA

?? CZ HY-3C Haiyang-3C

2023.

Mar30. [Soyuz-2-1A](#) [Sojuz MS-21](#)

?? CZ7 TZ 5 Tianzhou 5 (Logistic Cargo Vehicle)

?? CZ-2F/G SZ-16 Shenzhou-16

June?? [Atlas 5](#) 402 / [Falcon 9](#) USC8V-9 (US Commercial Vehicles)

Sep30. [Soyuz-2-1A](#) [Sojuz MS-22](#)

Dec?? [Atlas 5](#) 402 / [Falcon 9](#) USC8V-10 (US Commercial Vehicles)

?? SLS Block IA II Orion: Exploration Mission 3 (Crew to Cislunar)

?? Sunkar Federatsia (unmanned flight to ISS)

?? Sunkar Federatsia (Light 14t – 2 man to ISS)

?? [Soyuz-2](#) [Progress MS](#) 23

?? [Soyuz-2](#) [Progress MS](#) 24

?? [Soyuz-2](#) [Progress MS](#) 25

?? 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



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??	Soyuz-2-1B/Fregat-M	Ellips - 1
??	Angara A5P/DM03	Dopler 1, 2
??	Vega	Sentinel-2A 2nd Gen
??	CZ	SPORT (Solar Polar Orbit Radio Telescope)
??	CZ	FY-4D Fengyun-4D
??	GSLV MK III	Mission to Venus

2024

Mar30.

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

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

June?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-11 (US Commercial Vehicles)

Sep30.

[Soyuz-2-1A](#) **Sojuz MS-24**

Oct?? EELV GOES-U

?? SLS Block IA II Orion: Exploration Mission 4 (Crew to Cislunar)

?? [Soyuz-2](#) [Progress MS](#) 26
 ?? [Soyuz-2](#) [Progress MS](#) 27
 ?? [Soyuz-2](#) [Progress MS](#) 28

?? [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

?? [Proton-M/Briz-M](#) Ekspres – AMU 9

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

?? [Soyuz-2-1B/Fregat-M](#) Meteor MP No1

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

?? [Angara](#) A5P/DM03 Lutch 5 – 4

?? ?? Ямал GK 3

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

?? [Angara](#) A5P/DM03 Bumerang (Fobara Grunt 2)

?? ?? 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](#) Sojuz MS-25

?? [Soyuz-2](#) [Progress MS](#) 29



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??	Angara 1.2	Gonets x 3
??	Soyuz-2-1B	Obzor O -2
??	Soyuz-2-1b	Bion-M No. 3
??	Soyuz-2-1B/Fregat-M	Arktika M 5
??	Soyuz-2-1B/Fregat-M	Ellips - 2
??	Angara A5P/KVTK	Enisei A-2
??	Soyuz-2-1B/Fregat-M	Resonans 2A, 2B, MKA-PN5
??	Soyuz-2-1B/Fregat-M	Smotr R №2
??	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)