



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (17.07.2016.)

2017.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in **red**. Last change **17.July.2017**.

July28. 1541UTC [Soyuz-2 1A](#) [Soyuz MS 5 \(S52/53\)](#)

CDR: Сергей Николаевич **РЯЗАНСКИЙ** (Sergei N. **Ryazansky**), Paolo **Nespoli** (ESA), Randolph J. **Bresnik**

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

July?? [CZ-3B/YZ-1](#) [Beidou 3](#) M1& M2

Launch site: [Xichang](#), China

Aug02. 0158UTC [Vega \(VV10\)](#) [Venus, OPTSAT 3000](#)

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

?Aug03. 1302UTC [Atlas 5 401 \(AV074\)](#) [TDRS-M](#)

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

Aug10. 1807UTC [Falcon 9 FT](#) [Dragon SpX-12](#)

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

Aug11. 0500UTC [H-2A 204](#) [QZS-3](#)

Launch site: [Tanegashima](#), Japan

Aug14. 0701UTC [Atlas 5 541](#) **NROL-42** [Trumpet Follow On 2](#)

Launch site: [Vandenberg](#), USA

Aug15. [Proton-M/Briz-M](#) [Blagovest \(14Ф149\)](#)

Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan **80**

Aug16. [CZ-2D](#) **ZH-1 Zhengheng 1** ([ESEM experimental satellite on Electromagnetism Monitoring](#)), **Ministar-1, Fengmaniu-1**

Aug24. 1850UTC [Falcon 9 FT](#) [Formosat 5](#)

Launch site: [Vandenberg](#), USA

Aug26. 0315UTC **Minotaur-4/Orion 38**[ORS-5](#), **SensorSat**

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

Aug28. [Falcon 9 FT](#) **OTV-5 (X-37B)**

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

Aug31. 1600UTC [Atlas 5 421 \(AV075\)](#) **NROL-52** ([Quasar 21](#))

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

Aug31. [Ariane 5 ECA \(VA239\)](#) **BSat 4a / Intelsat 37e**

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

Aug31. [Proton-M/Briz-M](#) **Amazonas 5**

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

Aug?? [PSLV-XL \(C39\)](#)IRNSS-1H



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??	Electron	Outerspace 1	
	Launch site: Kaitorete Spit , New Zeland		
??	Epsilon (Jap)	ASNARO 2	70
Sep09.	Falcon 9 FT	SES 11	
Sep12.	Soyuz-2 1A	Soyuz MS 6 (S53/54)	
	CDR: Александр Александрович МИСУРКИН (Aleksandr A. Misurkin), Mark T. Vande Hei , Joseph M. Acaba		
Sep12.	Antares 230	Cygnum Orb-8	
Sep15.	CZ-11	TY-2, 3, 4, 5 Tianyi	
Sep21. 0948UTC	Delta II 7920-10C	JPSS-1	
	Launch site: Vandenberg , USA		
Sep21.	Rokot / Briz KM	Sentinel-5 Precursor	
Sep26.	PSLV	ScatSat	
Sep30.	Proton-M/Briz-M	AsiaSat-9	
Sep??	Minotaur-C XL	SkySat 8/9/10/11/12	
	Launch site: Vandenberg , USA		
Sep??	Falcon 9 FT	Iridium Next Flight 3 (x10)	60
	Launch site: Vandenberg , USA		
Sep??	Soyuz-2-1B/Fregat-M	Glonass-M/ 56	
	Launch site: Плесецк (Plesetsk) Cosmodrome, Russia		
Sep??	CZ-2D	GF-5 Gaofen-5	
Sep??	CZ-4B	FY-3D Feng Yun-3D	
Sep??	CZ-3B/YZ-1	Beidou 3 MEO M3, Beidou 3 MEO M4	
Sep??	GSLV MK II F11	GSAT-6A	
Sep??	CZ-3B/G2	ZX-6C Zhongxing-6C	
Sep??	Vega (VV11)	MN35-13 (Morocco EO Sat 1)	
??	Rokot / Briz KM	Geo IK 2	
Oct11.	Atlas 5 (531) (AV073)	AEHF-4	
Oct12.	Soyuz-2 1A	Progress MS 7	50
Oct18.	Ariane 5 ECA (VA240)	Hylas 4 / Al Yah 3	
Oct21.	Zenit 3-SLB / DM-SLB	AngoSat	
Oct??	Falcon 9 FT	Iridium Next Flight 4 (x10)	
	Launch site: Vandenberg , USA		
Oct??	CZ-3B/YZ-1	Beidou 3 MEO M5, Beidou 3 MEO M6	
Oct??	Falcon H	Demo Flight	



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??	Falcon 9 FT	KoreaSat 5A	
??	Falcon 9 FT	SES-16	
Nov01.	Falcon 9 FT	Dragon SpX-13	
Nov09.	Atlas 5 401 (AV076)	SBIRS-GEO 4	
Nov14.	Pegasus-XL	ICON (Helio EX-1)	40
Nov28.	Soyuz-2 1A / Fregat Kanopus V 3, Kanopus V 4		
??Nov30.	CZ-5	Chang'e-5 (Sample return)	
Nov??	Ariane 5 ECA	GSAT-11	
??	Rokot / Briz KM	Gonets x 3 (No 24,25,26), Blits-M	
Launch site: Плесецк (Plesetsk) Cosmodrome, Russia			
Dec13.	Delta IV-M+ (5,2)	NROL-47 (Topaz 5)	
Launch site: Vandenberg , USA			
Dec16.	Falcon 9 FT	Bangabandhu-1	
Dec27.	Soyuz-2 1A Soyuz MS 7 (S54/55)		
CDR: Shkaplerov , Norishige Kanai , Scott Tingle			
Dec28.	PSLV	Team Indus	
Dec??	Falcon 9 FT	Iridium Next Flight 5 (x10)	
Launch site: Vandenberg , USA			
Dec??	Ariane 5 ES (VA241)	Galileo-FOC FM15 (Nicole), Galileo-FOC FM16 (Zofia), Galileo-FOC FM17 (Alexandre), Galileo-FOC FM18 (Irina)	30
Dec??	CZ-2D	GJ-3 GaoJing-3, GJ-4 GaoJing-4	
Dec??	Falcon 9 FT	Grace-FO	
Dec??	Soyuz-2 -1B/Fregat-M	Meteor M-2-1, two MKA N, Ionosfera 1, Ionosfera 2	
Dec??	CZ-3B /YZ-1	Beidou 3 MEO M7, Beidou 3 MEO M8	
Dec??	CZ-3C	Beidou 3 G8	
Dec??	Proton-M / DM 3	Kosmos	
??	Falcon 9 FT	PAZ	
??	Soyuz-2 -1B	Labirint 11	
??	Zenit 3 SL / Fregat -SB	Lybid'	
??	Soyuz-2 -1B	Pion	20
??	Angara 1.2	Kosmos	
??	CZ-3A	FY-2H Fengyun-2H	
??	CZ-2D	GF-6 Gaofen-6	
??	CZ-2	CAS-2A1, CAS-2A2	
??	CZ	YG-32 Yaogan Weixing 31	
??	CZ	YG-32 Yaogan Weixing 32	
??	CZ	Orbita-1 1	



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??	CZ-2D	SaudiSAT 5B	
??	CZ-2D	JL-3 Jilin-3	
??	??	LJ-1 Luojia-1	10
??	CZ	Huaizong-1	
??	CZ-4C	Hede-1	
??	CZ-3B/E	Alcomsat-1	
??	LS-1	LandSpace-1	
??	CZ-2D	VRSS-2 (Bolivia Remote Sensing Satellite)	

?? [CZ-2C](#) ??
Launch site: [Xichang](#), China

??	PSLV	IRNSS-1I
??	H-2A	IGS Optical-6

?? [Simorgh](#) [Dosti](#) (Nahid 1??) (Payam-e Amir Kabir??)
Launch site: [Semnan](#), Iran

10 + (14)
45 + (87)

2018.

Jan20. [Vega \(VV11\)](#) **Aeolus / ADM**

??	Soyuz-2-1B/Fregat-M	Glonass-M / 52
??	Falcon 9 FT	Telstar 18
??	Falcon 9 FT	Telstar 19

Feb09. [Soyuz-2 1A](#) **[Progress MS 8](#)** 140

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
Feb??	Ariane 5 ECA (VA242)	Azerspace 2 (Intelsat 38) / SES 12

??	Soyuz-2-1B/Fregat	Glonass K2 / 13
??	Soyuz-2-1B/Fregat-M	Meteor M-2-2, Ionosfera 3, Ionosfera 4
??	Soyuz ST B/Fregat-MT	O3b

Mar07. [Atlas 5 \(541\)](#) **GOES-S**

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

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

Mar14. [Soyuz-2 1A](#) [Soyuz MS 8 \(S55/56\)](#)
CDR: **Artemyev**, Andrew **Feustel**, Ricky **Arnold**

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



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??	Delta IV-M+(4,2)	GPS III-1	
??	GSLV MK III D2	GSAT-20	
??	SS-520-5	TRICOM 1 R	
??	KZ-1A	??	
??	KZ-1A	??	120
??	KZ-1A	??	
??	KZ-1A	??	
??	Ariane 5 ECA	Hellas-Sat-4	
??	Falcon 9 FT	SES-14 / GOLD	

?? [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.

Apr15. [Soyuz-2 1A](#) [Progress MS 9](#)

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

Apr?? [Falcon 9](#) FT [Iridium Next](#) Flight 7 (x10)

May05. [Atlas 5 401](#) **InSight**

Launch site: [Vandenberg](#), USA

May30. [Soyuz-2 1A](#) [Soyuz MS 9 \(S56/57\)](#)

CDR: Prokopyev, Jeanette J. **Epps**, Alexander **Gerst**

May??	Falcon 9	GPS IIIA-2
May??	Ariane 5 ECA	GEO-KOMPSAT-2A
May??	CZ-3B/YZ-1	Beidou 3 MEO M13, Beidou 3 MEO M14

June??	CZ	L2 Chang'e 4 communications relay satellite
June??	CZ-2C	Pakistan Remote Sensing Satellite (PRSS) 1
June??	Delta II 7320-10C	ICESat-II
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)

??	Proton-M	PTK NP	
??	Vega	TARANIS	
??	Soyuz-2 1B /Fregat-M	Glonass K1 / 15	100
??	Soyuz ST	CSO 1	
??	Vega	Prisma	
??	Proton-M/Briz-M	Kosmos	
??	Proton-M/ DM-03	Glonass-M/	??
??	Soyuz ST B/Fregat-MT	OneWeb smalsat (x10)	

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

?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x32)



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?? [Soyuz-2](#) 1B /[Fregat](#)-M Glonass K1 / 16
 ?? [Soyuz-2](#) 1B /[Fregat](#)-M Ekspress-RV1
 ?? [Falcon 9](#) FT PSN VI

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.

Sep?? [CZ-3B](#)/YZ-1 Beidou 3 MEO M15, Beidou 3 MEO M16
 Sep?? [Ariane 5](#) ECA DSN 1 (Superbird-8) **80**

?? [Soyuz-2](#) 1B /[Fregat](#)-M Glonass K1 / 17
 ?? [Ariane 5](#) ECA EDRS-C (Hylas 3)
 ?? [Ariane 5](#) ECA Intelsat 7C

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)

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 №4 **60**
 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-14
 ?? [Falcon 9](#) FT [Dragon](#) SpX-15
 ?? [Antares](#) 230 [Cygnus](#) Orb-9E



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??	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	
??	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	
??	Angara A5/ DM03	Kosmos	
??	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			
??	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	
??	??CZ-11	Fengtai Shaonian 02	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)	



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?? 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

?? [Safir 1 B](#) Tadbir
 ?? Safir 3A Pars sepher

?? Tronador II/VEX5 TBD (suborbital)
 Launch site: Puerto Belgrano, Argentina

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2019.

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

?? CZ-5 Tian He Space Station Core Module
 ?? [Soyuz ST B](#)/[Fregat](#)-MT OneWeb smalsat (x32)

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



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??	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
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
??	Antares 230	Cygnus OA-11
??	Atlas 5 552	Dream Chaser Cargo System SNC-1
??	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



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??	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
??	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	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



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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 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
 ?? ?? HypIRI
 ?? 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-2
 ?? Falcon H ViaSat 3



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??	Proton-M	HЭM-1
??	Soyuz-2	Progress MS 14
??	Soyuz-2	Progress MS 15
??	Soyuz-2	Progress MS 16
??	Soyuz-2 1a / Fregat	Luna 26 (Luna-Resurs OA)
??	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
??	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-0Э N°1
??	Vega	Sentinel-2C
??	Vega	Sentinel-3C
??	??	Biomass
??	??	Seosat-Ingenio-2
??	??	EPS-SG-b
??	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



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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)
Oct??	Sunkar	Federatsia (unmanned)
Dec??	Atlas 5 402 / Falcon 9	USCV-6 (US Commercial Vehicles)
??	SLS Block I	Europa Clipper
??	Soyuz-2	Progress MS 19
??	Soyuz-2-1B / Fregat -M	Transformable Modul TM
??	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 Vehicle)
 ?? CZ-5B Xuntian Lab module Space station module



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??	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	
Sep??	Soyuz ST B/ Fregat -MT	MetOp-SG B1	
Dec??	Atlas 5 402 / Falcon 9	USCV-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	USCV-9 (US Commercial Vehicles)	
Sep30.	Soyuz-2-1A	Sojuz MS-22	
Dec??	Atlas 5 402 / Falcon 9	USCV-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	



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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.

- ?? [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

- ?? [Vega](#) Sentinel-2A 2nd Gen

- ?? CZ SPORT (Solar Polar Orbit Radio Telescope)
- ?? CZ FY-4D Fengyun-4D
- ?? CZ5 Chang'e-6 (Moon far side sample return)

- ?? [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 (FobosGrunt 2)

- ?? ?? DYNAMIC/STP-06

- ?? CZ Asteroid (Ceres) Sample Return Mission



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?? 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](#)

?? [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 N°2

?? 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)