



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (13.11.2017.)

2017.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in red. Last change 13.Nov.2017.

Nov14. 0947UTC Delta II 7920-10C [JPSS-1](#)

Launch site: [Vandenberg](#), USA

Nov15. [CZ-4C](#) FY-3 [Fengyun-3 D](#)

Launch site: [Jiuquan](#), China

Nov16. 0100UTC [Falcon 9](#) Mission 1390 - Zuma (no info about!!)

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

Nov21. CZ-6 HY-3A [Haiyang-3A](#)

Launch site: [Taiyuan](#), China

Nov25. [CZ-3B/YZ-1](#) [Beidou 3](#) MEO M3, [Beidou 3](#) MEO M4

Launch site: [Xichang](#), China

Nov28. 0541UTC [Soyuz-2-1B/Fregat-M](#) [Meteor M-2-1](#), two MKA N, Ionosfera 1, Ionosfera 2

Launch site: Восточный ([Vostochniy](#)) Cosmodrome, Russia

Nov?? [CZ-11](#) Jilin(x2), [Fengtai Shaonian 02](#)

Launch site: [Jiuquan](#), China

?? [Simorgh](#) [Dosti](#)

Launch site: [Semnan](#), Iran

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Dec01. [Soyuz-2-1B](#) Lotos-S1 14F145

Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

Dec04. 1952UTC [Falcon 9](#) [Dragon](#) SpX-13

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

Dec07. Zenit 3-SLB / DM-SLB [AngoSat](#)

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

Dec07. [Electron](#) [Still Testing](#)

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

Dec11. [CZ-3B/E](#) Alcomsat-1

Launch site: [Xichang](#), China

Dec12. [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. [PSLV](#) XL (C40) [CartoSat 2E](#)



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Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

Dec17. 0721UTC [Soyuz-2 1A](#) [Soyuz MS 7 \(S54/55\)](#)

CDR: Антон Николаевич **Шкаплеров** (Anton N. **Shkaplerov**), Norishige **Kanai**, Scott **D. Tingle**

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

Dec22. [Soyuz-2 1A](#) / [Fregat Kanopus V 3, Kanopus V 4](#)

Launch site: Восточный ([Vostochniy](#)) Cosmodrome, Russia 10

Dec23. 0126UTC [H-2A \(F37\)](#) **GCOM-C**

Launch site: [Tanegashima](#), Japan

Dec23. 0126UTC [Falcon 9](#) [Iridium Next Flight 4 \(x10\)](#)

Launch site: [Vandenberg](#), USA

Dec25. [CZ-2D](#) **GJ-1 GaoJing-1 03/04**

Dec29. [Falcon H](#) **Demo Flight**

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

Dec?? [Soyuz-2-1V](#) ??

Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

Dec?? CZ-2C CX-5 Chuangxin-5 (??YG-30 02 Yaogan Weixing -30 02)

?? [CZ-11](#) TY-2, 3, 4, 5 [Tianyi](#)

Launch site: [Jiuquan](#), 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)

?? Unha-3 Kwangmyŏngsŏng-5

16 + (4)
74 + (27)

2018.

??Jan10. [Zenit 3 SL](#) / [Fregat-SB](#) **Lybid'**

Jan10. [Rokot / Briz KM](#) [Gonets](#) x 3 (No 24,25,26), **Blits-M**

Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

Jan18. [Atlas 5 401 \(AV076\)](#) **SBIRS-GEO 4**

Jan24. [Ariane 5 ECA \(VA241\)](#) **Al Yah 3 / SES 14 GOLD**

Jan30. [Falcon 9 FT](#) **PAZ**

Jan?? [Falcon 9](#) SES-16 180

Jan?? [PSLV C41](#) **IRNSS 1-I**

?? [CZ-3B/YZ-1](#) ZX-6C Zhongxing-6C
?? [Soyuz-2-1B/Fregat-M](#) [Glonass-M/ 52](#)
?? [CZ-3A](#) FY-2H Fengyun-2H



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??	CZ-2D	GF-6 Gaofen-6
??	CZ-2D	SaudiSAT 5B
??	Falcon 9 FT	Es'hail 2
??	GSLV Mk II F8	GSAT 6A
??	CZ	YG-32 Yaogan Weixing 31
??	CZ	YG-32 Yaogan Weixing 32
??	Falcon 9	Hispasat 30W-6 (1F)

Feb01. [CZ-2D](#) **ZH-1 Zengheng 1** ([ESEM experimental satellite on Electromagnetism Monitoring](#)), **Ministar-1, Fengmaniu-1**

Feb04. [Proton-M/Briz-M](#) **Blagovest 12**
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

Feb09. [Falcon 9](#) FT **Dragon SpX-14**

Feb13. [Soyuz-2 1A](#) **Progress MS 8**

Feb20. **CZ** **Taurus-1**

Feb?? [Falcon 9](#) FT Bangabandhu-1
Feb?? [Falcon 9](#) FT SES-12

?? [Falcon 9](#) FT [Iridium Next](#) Flight 5 (x10)
Launch site: [Vandenberg](#), USA

?? Epsilon (3) ASNARO 2
Launch site: [Tanegashima](#), Japan 160

?? [Soyuz ST](#) B/Fregat-MT O3b
?? [Soyuz-2-1B](#) Pion
?? [CZ-3B/YZ-1](#) [Beidou 3](#) MEO M5, [Beidou 3](#) MEO M6
?? [H-2A](#) [IGS Optical-6](#)

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

Mar01. [Ariane 5](#) ECA (VA242) **Hylas 4, Azerspace 2 (Intelsat 38)**

Mar06. [PSLV](#) **C42** **Team Indus Lunar Lander/ Rover, Team Hakuto Rover**

Mar10. [Soyuz-2 1A](#) [Soyuz MS 8 \(S55/56\)](#)
CDR: Олег Германович **Артемьев** (Oleg G. **Artemyev**), Andrew J. **Feustel**, Ricky R. **Arnold**

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

Mar18. [Falcon 9](#) **TESS**

Mar21. [Falcon 9](#) **Iridium Next Flight 6 (x10)**

Mar?? [GSLV](#) Mk II D9 Chandrayaan 2
Mar?? [Rokot / Briz KM](#) Sentinel 3B
Mar?? CZ-2C Pakistani Remote Sensing Satellite (PRSS) 1

?? [Rokot / Briz KMGeo IK 2](#)
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia



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?? Pegasus-XL ICON ([Helio EX-1](#))
Launch site: [Kwajalein Atoll](#), USA

??	KZ-1A	??	
??	KZ-1A	??	
??	KZ-1A	??	
??	KZ-1A	??	140
??	Proton-M / DM 3	Kosmos	
??	SS-520-4	Tricom-1R	

Apr01. [Falcon 9](#) (SPx-DM1) **Dragon v2 unmanned test**

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

Apr25. [Soyuz-2 1A](#) [Soyuz MS 9](#) (S56/57)

CDR: Сергей Валерьевич **Прокопьев** (Sergei Valerevich **Prokopyev**), Jeanette J. **Epps**, Alexander **Gerst**

Apr30. **Falcon Heavy** **STP-02**

Apr??	H-2A	GOSAT-2
Apr??	Epsilon	OrigamiSat-1
Apr??	Ariane 5 ECA	DSN 1 (Superbird-8)

??	Falcon 9	Telstar 18
??	Falcon 9	Telstar 19

May01. [Antares](#) 230 [Cygnum](#) Orb-9E

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

Launch site: [Vandenberg](#), USA

May??	Ariane 5 ECA	GEO-KOMPSAT-2A
May??	Soyuz ST B/Fregat-MT	OneWeb smalsat (x10)

??	Falcon 9 FT	Iridium Next Flight 7 (x10)
??	CZ-3B/YZ-1	Beidou 3 MEO M7, Beidou 3 MEO M8

June06. [Falcon 9](#) FT [Dragon](#) SpX-15

June13. [Soyuz-2 1A](#) [Progress MS 9](#)

June??	CZ	L2 Chang'e 4 communications relay satellite	120	
June??	Falcon 9	Iridium Next Flight 8 (x5), GRACE FO_1, FO_2	June??	Falcon
	9	SAOCAM 1A		

?? [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
??	Proton-M / DM-03	Glonass-M / ??
??	Angara A5/ Briz-M	Kosmos
??	Ariane 5 ECA	Hellas-Sat-4



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??	CZ-5 Y3	SJ-18 02	
??	Vega (VV11)	Aeolus / ADM	
??	Ariane 5 ECA	GSAT-11	
??	Falcon 9	Spaceflight SSO-A	
??	GSLV MK III D2	GSAT-20	
July31.	Delta 4-H	Parker Solar Probe	
July??	PSLV	Oceansat-3	
??	Falcon H	Arabsat 6A	
??	Falcon 9	GPS IIIA-2	100
??	Falcon 9	PSN VI	
??	CZ-3B/YZ-1	Beidou 3 MEO M9, Beidou 3 MEO M10	
Aug??	Falcon 9 (SPx-DM2)	Dragon v2	
CDR: Eric Boe, Sunita Williams			
Aug??	Atlas 5 422 (AV80)	CST-100 Starliner (unmanned test)	
Aug??	CZ-3C	Beidou 2 I7	
Aug??	Delta IV -M+(4,2)	GPS III-1	
Aug??	Falcon 9 FT	Telkom 4	
Aug??	Falcon 9 FT	Dragon SpX-16	
??	Soyuz ST B/ Fregat -MT	OneWeb smalsat (x32)	
??	Soyuz-2 1B / Fregat -M	Glonass K1 / 16	
??	Atlas 5 (531) (AV073)	AEHF-4	
??	Soyuz-2 -1B/ Fregat -M	Meteor M-2-2, Ionosfera 3, Ionosfera 4	
Sep08.	Soyuz-2 1A Soyuz MS 10 (S57/58)		
CDR: Алексей Николаевич Овчинин (Aleksei Nikolaevich Ovchinin), Николай Владимирович Тихонов (Nikolai Vladimirovich Tikhonov), Tyler Hague			
Sep12.	Delta II 7320-10C	ICESat-II	
Sep15.	Delta 4-H	NROL-71	
Sep??	CZ-3B/YZ-1	Beidou 3 MEO M15, Beidou 3 MEO M16	
??	Soyuz-2 1B / Fregat -M	Glonass K1 / 17	
??	Ariane 5 ECA	EDRS-C (Hylas 3)	
??	Ariane 5 ECA	Intelsat 7C	
??	Falcon 9	Radarsat C-1, -2, C-3	80
??	Falcon 9	OHB SARah satellite (x2)	
Oct05.	Ariane 5	BepiColombo ESA and ISAS Mercury Orbiters	
Oct11.	Soyuz-2	Progress MS 10	
Oct??	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.		
Oct??	Soyuz ST B/ Fregat -M	MetOp-C	
Oct??	CZ-3C	Beidou 3 G1Q	



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Oct??	Proton-M/Briz-M	Elektro L – 3
Oct??	Antares 230	Cygnus Orb-10E
Oct??	Falcon 9	Dragon SpX-17
??	Proton-M/ DM-03	Glonass-M/ K18,K19,K20
??	Ariane 5 ECA	Intelsat 39
??	Ariane 5	Horizon 3e
??	H-2B (F7)	HTV7

Nov07. [Soyuz-2 1A](#) [Soyuz MS 11 \(S58/59\)](#)

CDR: Олѣг Дмїтриевич Кононѣнко (Oleg Dmitrievich Kononenko), Serena **Auñón-Chancellor**, David **Saint-Jaques**

Nov?? [Atlas 5](#) 422 (AV082) CST-100 Starliner
CDR: Douglas **Hurley**, Robert **Behnken**

??	Minotaur 1	NROL 111
??	Soyuz ST B/ Fregat -MT	OneWeb smalsat (x32)
??	Soyuz-2 1B / Fregat -M	Glonass K1 / 15
??	Falcon 9	Spaceflight GTO.C

Dec20. [Proton-M](#) **MLM** 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 №4
Dec??	??	Korean Pathfinder Lunar Orbiter
Dec??	Falcon 9 FT	Dragon SpX-18

??	Soyuz-2-1B/Fregat -M	Glonass K2 / 14
??	Ariane 5	Heinrich Hertz

??	Minotaur-4	FORMOSAT-7 (6 sat)
??	Delta IV -M (5,4)	WGS 10
??	Atlas 5 551	AFSPC-7
??	Atlas 5	AEHF 5

??	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
??	Proton-M/Briz-M	Anik G2V

??	Soyuz-2-1B/Fregat M	Meridian 18L	
??	Soyuz-2 1A	Bars-M 3	40
??	Soyuz-2 1A	Energiya-100	
??	Soyuz-2-1B/ Fregat -M	Glonass M 55	
??	Soyuz-2-1B	Obzor R -1	

??	Angara 1.2	Kosmos
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?? [Ariane 5](#) ES [Galileo-FOC](#) FM19 (Tara), [Galileo-FOC](#) FM20 (Samuel), [Galileo-FOC](#) FM21 (Anna), [Galileo-FOC](#) FM22 (Ellen)



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??	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-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-2D		GF-7 Gaofen-7	
??	CZ		CBERS-SAR 1	
??	CZ		Deep Space Solar Observatory	
??	CZ		CBERS-4B	
??	CZ-2		CAS-2A1, CAS-2A2	
??	CZ-3B/E		SupremeSAT-II	
??	CZ-3B/E		CongoSat 1	20
??	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	
??	CZ-3C		Beidou 3 G8	
??	CZ		Orbita-1 1	
??	??		LJ-1 Luojia-1	
??	CZ		Huaizong-1	
??	LS-1		LandSpace-1	
??	GSLV MK II	F12	GSAT-7A	
??	GSLV MK II	F10	GISAT	
??	PSLV		EnMap	
??	PSLV		ScatSat, NovaSAR	
??	Safir 1 B		Tadbir	
??	Safir 3A		Pars sepher	
??	Tronador II/VEX5	TBD	(suborbital)	
Launch site: Puerto Belgrano, Argentina				

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2019.

?? [Falcon 9](#) GiSat-1
 Jan?? [?Atlas 5](#) 531 [Cygnus](#) OA-11
 Jan?? [Falcon 9](#) Dragon v2 (USCV-1) with 2 astronauts

Feb06. [Soyuz-2](#) [Progress MS 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) 80

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

Mar07. [Soyuz-2 1A](#) [Soyuz MS 12 \(S59/60\)](#)

???CDR: ?? Павел Владимирович **ВИНОГРАДОВ** (Pavel Vladimirovich **Vinogradov**), ?? Sergei **Kud-Sverchkov**, Shannon **Walker**

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

?? [Soyuz ST B/Fregat](#)-MT OneWeb smalsat (x32)
 ?? [Soyuz-2-1B/Fregat](#) Glonass K2 / 13

Apr?? ?? GOES-T
 Apr?? [CZ-3B/E](#) Nicasat 1
 Apr?? [CZ-3C](#) Beidou 3 I2Q

?? CZ7 TZ 2 Tianzhou 2 (Logistic Cargo Vechile)

May?? [Falcon 9](#) FT [Dragon](#) SpX-19
 May?? [Atlas 5](#) 402 CST 100 Starliner (USCV-2) with 2 astronauts
 May?? [Soyuz-2](#) [Progress MS 12](#)

June?? [Atlas 5](#) 551 STP-03
 June?? [Ariane 5](#) MTG-I1
 June?? [Ariane 5](#) ES JWST (James Webb Space Telescope)

?? [PSLV](#) RISAT 1A
 ?? [CZ-3B/G2](#) TECSTAR 1
 ?? [Vega](#) Cosmo-SkyMed Secon Gen 1 CSG-1 60
 ?? [Ariane 5](#) Inmarsat-5 F5

July?? [CZ-3C](#) Beidou 3 I3Q

Aug?? [Soyuz ST B/Fregat](#)-MT EarthCare
 Aug?? [CZ-2C](#) CFOSAT (China-France Oceanography SATellite)

Sep30. [Soyuz-2 1A](#) [Soyuz MS 13 \(S60/61\)](#)

CDR: ??, Luca **Parmitano** (ESA) , Anne **McClain** (NASA)

Sep?? [Soyuz-2-1B/Fregat](#)-M Glonass K1 / 22



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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-20
Oct??	Atlas 5 552	Dream Chaser Cargo System SNC-1
Oct??	Soyuz-2	Progress MS 13

Nov14. [Soyuz-2 1B](#) **Progress M-UM**

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

Dec15. **SLS-1** **Orion (unmanned trip around the Moon) Exploration Mission 1 (Distant Retrograde Orbit (DRO) Tactical DRM)**

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 H Circumlunar Dragon V2

??	Falcon 9 v1.1	Astrium active SARah satellite	
??	Falcon 9	GPS IIIA-6	40
??	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	OpSis
??	Vega	VNREDSat
??	Vega	LOTUSat

??	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-2-1A/Fregat-M	Kondor-FKA n.º 1
??	Soyuz-2-1B/Fregat-M	Arktika M 2

??	Proton-M/Briz-M	SkyTerra 2	20
??	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



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??	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-4B	HY-2C Haiyang-2C
??	PSLV XL	Aditya'
87		
2020.		
Jan??	Falcon 9 v1.1	USCV-3 (US Commercial Vehicles)
Mar30.	Soyuz 2-1A	Soyuz MS 14 (S61/62)
Mar??	Delta IV-M	DMSP-5D3 F20
Mar??	Soyuz-2-1B/Fregat-M	Glonass K1 / 22
??	CZ-5	Tian He Space Station Core Module
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/EPS-SG-a/Sentinel-5A
July16	Ariane 62	Galileo-FOC FM23, Galileo-FOC FM24
July24.	Proton-M/Briz-M	ExoMars (CM+DM)
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



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?? 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** [Soyuz MS 15 \(S62/63\)](#)
Soichi Noguchi

Sep?? CZ CBERS-6
Sep?? [Soyuz-2-1B/Fregat-M](#) Glonass K2 / 15

?? CZ-2F/G SZ-13 Shenzhou-13
?? Vega Proba 3

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-21
?? [Falcon 9](#) FT [Dragon](#) SpX-22
?? [Antares](#) 230 [Cygnus](#) OA-12

?? Falcon H ViaSat 3

?? [Proton-M](#) HƏM-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
?? [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



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?? [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

?? [Ariane 5](#) Arsat 3

??	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)
??	H-IIA	Astro H2 (Hitomi-2), SLIM (Smart Lander for Investigating Moon)
??	H-IIA	Inmarsat-6 F1

2021.

Jan ?? Ariane 62 Galileo-FOC FM25, Galileo-FOC FM26

?? [Soyuz-2](#) [Progress MS](#) 17

Mar30. [Soyuz-2-1A](#) [Soyuz MS](#) 16

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

Sep30. [Soyuz-2-1A](#) [Soyuz MS](#) 17

Oct?? [Atlas 5](#) 401/[Falcon 9](#) v1.1 JPSS Free Flyer 2 (TSIS-2)



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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	Resurs PM - 2
??	Soyuz-2-1B/Fregat-M	Meteor M No2-4
??	Soyuz-2-1B/Fregat-M	Meteor M No3
??	Angara 1.2	Gonets x 3
??	Proton-M/Briz-M	Elektro L - 5
??	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
??	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

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

Mar17. CZ 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 18](#)

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

June01. SLS Block I Orion: Exploration Mission 2 (Crew to Cislunar) Mission)

June 4-25 - Europa Clipper (Orbiter) - ~~EELV Heavy/~~ SLS Block IB - ~~Canaveral/~~ Kennedy LC-39B (or [January 1-17, 2023](#) ~~2025~~)

June?? [Ariane 5](#)ECA JUICE (JUperiter ICy moon Explorer)
 June?? Ariane 5 MTG-I2



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June??	Atlas 5 402 / Falcon 9	USCV-7 (US Commercial Vehicles)
??	Sunkar ??	
??	Soyuz-2	Progress MS 21
Aug??	H2B	Phobos sample return
Sep30.	Soyuz-2-1A	Soyuz MS 19
Sep??	Soyuz ST B/ Fregat -MT	MetOp-SG B1
??	Sunkar Federatsia (unmaned)	
Dec??	Atlas 5 402 / Falcon 9	USCV-8 (US Commercial Vehicles)
??	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 3, Ekspress – RV 4
??	Angara 1.2	Gonets x 3
??	Soyuz-2-1B/Fregat -M	Meteor M No2-5
??	Proton-M/Briz-M	Eutelsat
??	Proton-M/Briz-M	Intelsat
??	Soyuz-2-1B/Fregat -M	Smotr R №2
??	Soyuz-2-	Razdan 2
??	Ariane 5	Moon's south pole samples return mission
??	Vega	Jason-CS B
??	Ariane 5	ATHENA
??	CZ	HY-3C Haiyang-3C
2023.		
??	Soyuz-2	Progress MS 23
Mar30.	Soyuz-2-1A	Soyuz MS 20
??	CZ7	TZ 5 Tianzhou 5 (Logistic Cargo Vechile)
??	CZ-2F/G	SZ-16 Shenzhou-16
June??	Atlas 5 402 / Falcon 9	USCV-9 (US Commercial Vehicles)
??	Soyuz-2	Progress MS 24
Sep30.	Soyuz-2-1A	Soyuz MS 21
??	Soyuz-2	Progress MS 25
Dec??	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 (unmaned flight to ISS)
- ?? 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
- ?? [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 22](#)

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

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

Sep30.

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

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](#) 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

?? [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



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??	Soyuz-2-1B/Fregat-M	Meteor MP No1
??	Soyuz-2-1A	Obzor P -1
??	Soyuz-2-1B/Fregat-M	Razdan - 3
??	??	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 24
??	Soyuz-2	Progress MS 29
??	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
??	Angara A5P/DM-03	Elektro M -1
??	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 A5P/DM03	Bumerang (FobosGrunt 2)