



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (02.01.2017.)

2017.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in **red**. Last change **02.Jan2017**.

- Jan04. 1515UTC [CZ-3B/G2](#) [TXJSSY-2](#)
Launch site: [Xichang](#), China
- Jan06. 0400UTC [KZ-1A](#) JL – 2 [Jilin – 2](#)
Launch site: [Jiuquan](#), China
- Jan07. 2036UTC [Falcon 9](#) [Iridium Next](#) Flight 1 (x10)
Launch site: [Vandenberg](#), USA
- Jan10. 2220UTC [SS-520-4](#) [TRICOM-1](#)
Launch site: [Uchinoura Space Center](#), Japan
- Jan16. 0350UTC [Falcon 9](#) FT [Echostar 23](#)
Launch site: [Cape Canaveral](#), USA
- Jan20. 0046UTC [Atlas 5](#) 401 (AV066) [SBIRS-GEO 3](#) **160**
Launch site: [Cape Canaveral](#), USA
- Jan20. [GSLV](#) MK II F09 [GSAT-9](#)
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India
- Jan24. 0744UTC [H-2A](#) (F32) [DSN-2](#) (Kirameki 2)
Launch site: [Tanegashima](#), Japan
- Jan27. 0100UTC [Atlas 5](#) 401 (AV068) [NROL-79](#) [Intruder 12A \(NOSS 3-8A\)](#) [Intruder 12B \(NOSS 3-8B\)](#)
Launch site: [Vandenberg](#), USA
- Jan27. [PSLV](#) XL C37 [Cartosat-2D](#)
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India
- Jan28. 0103UTC [Soyuz ST](#) B/[Fregat](#)-MT (VS16) [Hispasat AG1](#) (36W-1)
Launch site: [Kourou](#), French Guiana
- Jan31. [Proton-M/Briz-M](#) [EchoStar 21](#)
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan
- Feb14. [Ariane 5](#) ECA (VA235) [Intelsat 32e \(SkyBrasil – 1\)](#) / [Telkom 3S](#)
Launch site: [Kourou](#), French Guiana
- Feb21. [Soyuz U](#) [Progress MS 5](#)
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan
- Feb?? [Simorgh](#) [Dosti](#)
Launch site: [Semnan](#), Iran
- Feb?? [Falcon 9](#) FT [Dragon](#) SpX-10
Launch site: [Cape Canaveral](#), USA



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??	Soyuz-2-1V	Kosmos 14F150 (geodesy??)	
Launch site:	Плесецк (Plesetsk)	Cosmodrome, Russia	
??	Soyuz-2-1B/ Fregat	Tundra 2	
Launch site:	Плесецк (Plesetsk)	Cosmodrome, Russia	
??	H-2A	IGS Radar 5	
??	Soyuz-2-1V / Volga	Гонец-M1	
??	Falcon 9 FT	SES-10	
??	Soyuz-2-1B	Pion	
??	Soyuz-2-1B	Labirint 11	140
??	Proton-M/Briz-M	Kosmos	
??	Soyuz-2-1B/Fregat-M	Meteor M-2-1, two MKA N, Ionosfera 1, Ionosfera 2	
Mar07.	Vega (VV09)	Sentinel 2B	
Launch site:	Kourou , French Guiana		
Mar09.0000UTC	Delta IV -M+(5,4)	WGS 9	
Mar17. 0200UTC	Atlas 5 401	Cygnus Orb-7 (CRS-7)	
Launch site:	Cape Canaveral , USA		
Mar21.	Ariane 5 ECA (VA236)	SGDC 1	
Mar27.	Soyuz-2 1A Soyuz MS 4 (S51/52)		
CDR:	Fyodor Yurichkhin, Jack D. Fischer		
Mar31.CZ-??	CAS-4A, CAS-4B		
Mar??	GSLV MK III D1	GSAT-19E	
Launch site:	Satish Dhawan Space Centre , Sriharikota, India		
Mar??	Falcon 9	NROL 76	
Mar??	Falcon 9	Dragon SpX-11 (CRS11)	
Mar??	Proton-M/Briz-M	Hispasat 1f	
??	Proton-M/Briz-M	Blagovest (14Φ149)	
Launch site:	Байконур (Baikonur)	Cosmodrome, Kazakhstan	
??	CZ-4B	SJ-13 Shijian-13A; Shijian-13B	GEO satellite with electric propulsion system based on DFH-3B bus
??	CZ-4C	Hede-1	
??	CZ-4B	HY-1C Haiyang-1C	
??	Falcon 9 FT	KoreaSat 5A	
Apr04.	Soyuz ST B/ Fregat -MT (VS17)	SES 15	
Apr23. 1000UTC	PSLV C38	EMI SAT / SPADEX	
Apr??	CZ7	TZ 1 Tianzhou 1 (Logistic Cargo Vehicle)	120
Launch site:	Wenchang , China		
Apr??	Rokot / Briz KM	Sentinel 2B	



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Apr??	Ariane 5	ViaSat-2	
Apr??	Falcon 9 FT	Iridium Next Flight 2 (x10)	
??	Ariane 5 ECA	GSAT-17	
??	Ariane 5 ECA	Al Yah 3	
??	Ariane 5 ECA	Koreasat-7 (Mugungwa 7)	
??	Soyuz-2-1B/Fregat-M	Glonass-M/ 52	
May04.	Atlas 5 (531) (AV072)	AEHF-4	
May28.	Soyuz-2 1A Soyuz MS 5 (S52/53)		
	CDR: Сергей Николаевич РЯЗАНСКИЙ (Sergei N. Ryazansky), Paolo Nespoli (ESA), Randolph J. Bresnik		
May??	Minotaur-C XL	SkySat 8/9/10/11/12	
June01.	Falcon 9 FT	Dragon SpX-12	
June13.	Atlas 5 541	NROL-42 Trumpet Follow On 2	
June14.	Soyuz-2 1A	Progress MS 6	
June15.	Pegasus-XL	ICON (Helio EX-1)	
June??	CZ-3B/E	Alcomsat-1	
June??	Antares 230	Cygnus Orb-8	
June??	LS-1	LandSpace-1	
June??	Rokot / Briz KM	Sentinel-5 Precursor	
June??	CZ	Tianyi	
??	Soyuz-2 1A / Fregat M Kanopus V IK		
	Launch site: Байконур (Baikonur) Cosmodrome, Kazakhstan		
??	Falcon H	Demo Flight	100
??	Falcon 9 FT	BulgariaSat	
??	Falcon 9 FT	SES-11 /EchoStar 105	
??	CZ-5	SJ-18 (DFH5 bus)	
??	Proton-M/Briz-M	AsiaSat-9	
??	Falcon 9 FT	Inmarsat 5 F4	
??	Falcon 9 FT	Iridium Next Flight 3 (x10)	
??	Falcon 9 FT	Intelsat 35e	
July15.	Zenit 3-SLB / DM-SLB	AngoSat	
July??	Minotaur-4/Orion 38	ORS-5: SensorSat	
??	Ariane 5	Eutelsat 172B	
??	Proton-M/ DM 3	Electro-L N3	
??	Proton-M/Briz-M	EuropaSat 3	
??	Soyuz-2-1B/Fregat-M	Meteor M-2-2, Ionosfera 3, Ionosfera 4	
??	Ariane 5 ECA	EDRS-C (Hylas 3)	
??	Ariane 5 ECA	GSAT-11	
Aug03.	Atlas 5 401	TDRS-M	
Aug31.	Atlas 5 421	NROL-52	



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Aug?? [Ariane 5](#) ES [Galileo-FOC](#) FM15 (Nicole), [Galileo-FOC](#) FM16 (Zofia), [Galileo-FOC](#) FM17 (Alexandre), [Galileo-FOC](#) FM18 (Irina)

Aug?? [Vega](#) (VV10) Venus, OPTSAT 3000
Aug?? [Falcon 9](#) FT [Iridium Next](#) Flight 4 (x10)

?? Epsilon (Jap) ASNARO 2 80

Sep12. [Soyuz-2](#) 1A [Soyuz MS](#) 6 (S53/54)
CDR: Александр Александрович **МИСУРКИН** (Aleksandr A. Misurkin), Mark T. Vande Hei

Sep13. [Falcon 9](#) FT [Dragon](#) SpX-13

Sep?? [CZ-2D](#) VRSS-2 (Bolivia Remote Sensing Satellite)
Sep?? [CZ-3B/G2](#) ZX-6C Zhongxing-6C
Sep?? [Soyuz-2](#) 1A / Fregat Kanopus V 3, Kanopus V 4

?? [Rokot / Briz KM](#) [Gonets](#) x 3 (No 24,25,26), Blits-M
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

?? [Falcon 9](#) FT Es'hail 2
?? [CZ](#) HY-3A Haiyang-3A
?? [Falcon 9](#) FT SES-16
?? [Falcon Heavy](#) [STP-02](#)
?? [Atlas 5](#) 551 AFSPC-7
?? [Falcon 9](#) FT [ORS-6](#)
?? [Soyuz-2-1V](#) /Volga Geo IK 2

Oct12. [Soyuz-2](#) 1A [Progress MS](#) 7

Oct?? [Soyuz ST](#) B/Fregat-M MetOp-C
Oct?? [Atlas 5](#) 401 SBIRS-GEO 4
Oct?? [Falcon 9](#) FT SAOCAM 1A
Oct?? Delta II 7920-10C [JPSS-1](#)
Oct?? [Falcon 9](#) FT [Iridium Next](#) Flight 5 (x10)
Oct?? [Ariane 5](#) Hylas 4
Oct?? [CZ](#) [Ministar-1](#)

Nov10. Delta II 7320-10C ICESat-II 60

Nov17. [Antares](#) 230 [Cygnus](#) Orb-9

Nov30. [Soyuz-2](#) 1A [Soyuz MS](#) 7 (S54/55)
CDR: Александр Александрович **Скворцов** (Alexander Skvortsov), Norishige Kanai, Scott Tingle

Nov?? [Vega](#) (VV11) Aeolus
Nov?? [Falcon 9](#) Dragon v2 unmanned test

?? [Falcon 9](#) FT SES-14 / GOLD

Dec02. [Atlas 5](#) 402 / Falcon 9 v1.1 USCV-1 (US Commercial Vehicles)

Dec07. [Atlas 5](#) 551 AFSPC-11

Dec16. [Falcon 9](#) FT [Bangabandhu-1](#)



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Dec??	Soyuz / Vega	CSO 1	
Dec??	PSLV	Cartosat-2E	
Dec??	CZ-2D	GJ-3 GaoJing-3, GJ-4 GaoJing-4	
Dec??	Falcon 9 FT	TESS	
Dec??	Falcon 9 FT	Grace-FO	
Dec??	PSLV	Team Indus	
Dec??	Falcon 9 FT	Iridium Next Flight 6 (x10)	
??	Falcon 9 FT	PSN VI	
??	Atlas 5 401	GeoEye - 2	
??	Atlas 5	Solar Orbiter (SolO) (ESA)	
??	CZ-4B	HY-1D Haiyang-1D	
??	CZ-4B	HY-2B Haiyang-2B	40
??	Angara 1.2	Kosmos	
??	Soyuz-2-1B	Persona - 3	
??	Angara A5/ DM03	Kosmos	
??	Zenit 3 SL / Fregat -SB	Lybid'	
??	Proton-M / DM-03	Glonass-M /	??
??	Soyuz-2-1B / Fregat -M	Glonass-M / 56	
??	Soyuz-2-1B / Fregat	Glonass K2 / 13	

Байконур планируется провести 15 пусков, с Плесецка шесть и еще два с Восточного

??	Vega	OpSis
??	Vega	VNREDSat
??	Vega	LOTUSat
??	Vega	Prisma
??	Ariane 5 ECA	BSat 4a
??	Ariane 5 ECA	SES 12
??	Ariane 5 ECA	Azerspace 2 (Intelsat 38)
??	Soyuz ST B/ Fregat -MT (VS17)	OneWeb smalsat (x10)
??	CZ-2F/G	SZ-12 Shenzhou-12
??	CZ-5	Chang'e-5 (Sample return)

?? [CZ-2D](#) Hard X-ray Modulation Telescope (HXMT)
 HXMT comprises three to four single telescopes equipped with hard X-ray detectors, instead of optical lenses, and will be used to observe space black holes.
 Launch site: [Jiuquan](#), China

?? [CZ-2C](#) ZH-1 Zengheng 1 (ESEM experimental satellite on Electromagnetism Monitoring)
20

?? [CZ-3B/G2](#) ZX-16 Zhongxing-16 (DFH-4E bus)

??	CZ-3A	FY-2H Fengyun-2H
??	CZ-2D	GF-5 Gaofen-5
??	CZ-2D	GF-6 Gaofen-6
??	CZ-2	CAS-2A1, CAS-2A2



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?? CZ YG-32 Yaogan Weixing 31
 ?? CZ YG-32 Yaogan Weixing 32
 ?? CZ Orbita-1 1

?? [CZ-4B](#) HY-1D Haiyang-1D
 ?? [CZ-4B](#) HY-2B Haiyang-2B
 ?? [CZ-4B](#) FY-3D Feng Yun-3D

?? [CZ-2D](#) SaudiSAT 5B
 ?? [CZ-2D](#) JL-3 Jilin-3

?? ?? LJ-1 Luojia-1

?? [GSLV](#) MK II F11 GSAT-6A
 ?? [GSLV](#) MK II F10 GISAT

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

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

(25)
 (162)

2018.

Jan?? [Vega](#) Seosat (Ingenio)
 Jan?? [Antares](#) 230 [Cygnus](#) Orb-10

Feb?? [Soyuz-2-1B/Fregat](#) -M Glonass K2
 Feb?? [Vega](#) CHEOPS
 Feb?? [Falcon 9](#) FT [Dragon](#) SpX-14
 Feb?? [Soyuz-2](#) 1A [Progress MS](#) 8
 Feb?? [Falcon 9](#) FT [Iridium Next](#) Flight 7 (x10)

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

Mar30. [Soyuz-2](#) 1A [Soyuz MS](#) 8 (S55/56)
 CDR: Сергей **Прокопьев** (Sergei V. Prokopyev, Олег Германович **Артемьев** (Oleg G. Artmyev), Andrew Feustel

Mar?? [PSLV](#) Cartosat-3
 Mar?? [Atlas 5](#) (541) GOES-S

?? [Soyuz ST / Vega](#) Merlin
 ?? [Soyuz-2-1B/ Fregat](#)-M Glonass M

?? CZ7 TZ 2 Tianzhou 2 (Logistic Cargo Vechile)
 ?? [Delta IV](#)-M+(4,2) GPS III-1

Apr?? [Falcon 9](#) FT [Dragon](#) SpX-15
 Apr?? [Soyuz-2](#) 1A [Progress MS](#) 9

May05. [Atlas 5](#) 401 InSight
 Launch site: [Vandenberg](#), USA



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May30.	Soyuz-2 1A	Soyuz MS 9 (S56/57)	
CDR: Александр Михайлович Самокутьев (Aleksander M. Samokutyev), Jeanette J. Epps, Alexander Gerst			
May??	Falcon 9		GPS IIIA-2
May??	Falcon Heavy		Red Dragon
May??	Soyuz ST B/ Fregat		Solar Orbiter
May??	Falcon 9		Dragon v2 manned test
??	CZ-2F/G		SZ-12 Shenzhou-12
June01.	Atlas 5 402 / Falcon 9 v1.1	USCV-2 (US Commercial Vehicles)	
June??	CZ	L2 Chang'e 4 communications relay satellite	
June??	CZ-2C	Pakistani Remote Sensing Satellite (PRSS) 1	
June??	Atlas 5 422	CST-100 Starliner (unmanned test)	
??	Proton-M		PTK NP
??	Soyuz-2-1B / Fregat-M		Glonass K1 / 15
??	CZ-5	Space Station Core Module	
??	Proton-M		MLM
July01.	Soyuz-2	Progress MS 10	
July??	PSLV	Oceansat-3	
July??	Delta 4-H	Solar Probe Plus	
Aug??	Soyuz ST B/ Fregat -MT	EarthCare	
Aug??	Falcon 9 FT	Dragon SpX-16	
Aug??	Atlas 5 422	CST-100 Starliner (manned test)	
Sep30.	Soyuz-2 1A	Soyuz MS 10 (S57/58)	
CDR: Геннадий Иванович Падалка (Padalka), Бабкин (Andrei Babkin), NASA probably Aunon			
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.	
Oct16.	Soyuz-2	Progress MS 11	
Oct??	Ariane 5 ES	JWST (James Webb Space Telescope)	
Oct??	Falcon 9 FT	Dragon SpX-17	
Oct??	Ariane 5	BepiColombo ESA and ISAS Mercury Orbiters	
??	Proton-M / DM-03		Glonass-M /K16,K17,K18
Nov30.	Soyuz-2 1A	Soyuz MS 11 (S58/59)	
CDR: Кононенко (Kononenko), NASA, David Saint-Jaques (Can)			
Nov??	Vega	Proba 3	
Nov??	SLS-1	Orion (unmanned trip around the Moon) Exploration Mission 1 (Distant Retrograde Orbit (DRO) Tactical DRM	



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Dec03. [Atlas 5](#) 402 / Falcon 9 v1.1 USCV-3 (US Commercial Vehicles)

Dec?? [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 surface in the polar region

Dec?? [Ariane 5](#) MTG-I1

Dec?? [CZ-3B/GIII](#) Chang'e-4 (Moon far side Aitken Basin lander/rover)

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

?? [Soyuz-2-1B/Fregat-M](#) Glonass K2 / 14

?? [Ariane 5](#) Heinrich Hertz

?? [Falcon 9](#) v1.2 Radarsat Constellation Mission (x3)

?? [Falcon 9](#) v1.2 OHB SARah satellite (x2)

?? [Falcon 9](#) v1.2 WGS 10

?? Minotaur-4 FORMOSAT-7 (6 sat)

?? ?? Landsat 9

?? ?? AEHF 5

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

?? [Proton-M](#) HЭM-1

?? [Proton-M/Briz-M](#) Ямал-501

?? [Soyuz-2-1B/Fregat-M](#) Метеор-М №3

?? [Soyuz-2-1V](#) / Volga Обзор-О №2

?? [Soyuz-2-1A/Fregat](#) Resonance 1A, Resonance 1B

RESONANCE is a project to study Earth's magnetosphere consisting of four similar satellites.

?? [Rokot / Briz KM](#) [Gonets](#) x 3 (No 27,28,29)

?? [Proton-M/Briz-M](#) AOneSat-1

?? [Falcon 9](#) v1.2 Dragon v2

?? Soyuz-2.1B Arktika M 1

Launch site: Восточный (Vostochniy), Cosmodrome, Russia

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

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

?? [Proton-M/Briz-M](#) Ямал-601

?? [Proton-M/Briz-M](#) Terrestar-2

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

?? [Proton-M/Briz-M](#) EutelSat 5 West B / MEV

?? [Soyuz-2-1B](#) Lotos S1

?? [Soyuz-2-1B](#) Persona

?? [Soyuz-2-1A](#) Kobalt M

?? [Soyuz-2-1A](#) Foton M

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

?? [Soyuz-2-1B/Fregat-M](#) Smotr R №1

?? ?? Zond

?? ?? MKA PN6 (Monika)

?? ??ЗЕНИТ-3СЛБФ/[Fregat](#)-СБ Электро-М №1



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??	??	Картограф-ОЭ №1
??	Vega	Jason-CS A
??	Vega	EarthCare
??	Vega	CSO 1
??	Vega	Cosmo-SkyMed Secon Gen 1)
??	Vega	Sentinel 3B
??	Ariane 5 ES	Galileo-FOC FM19 (Tara), Galileo-FOC FM20 (Samuel), Galileo-FOC FM21 (Anna),
??	Galileo-FOC FM22 (Ellen)	
??	Ariane 5 ECA	Jabiru 2
??	Ariane 5	Arsat 3
??	Ariane 5 ECA	Jabiru-1
??	Ariane 5 ECA	Intelsat 37e
??	Ariane 5 ECA	DSN 1 (Superbird-8)
??	Soyuz ST B/ Fregat	MetOp-C
??	Soyuz ST	TARANIS
??	CZ	HY-3B Haiyang-3B
??	CZ-3B/E	Compass-M6 ; Compass-M7
??	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-4B	HY-2C Haiyang-2C
??	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-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
??	PSLV C37	RISAT 1A
??	GSLV MK III	D2 GSAT-20
??	GSLV MK II	F12 GSAT-7A
??	PSLV	EnMap

2019.

Mar30. [Soyuz-2](#) 1A [Soyuz MS](#) 12

CDR: **Волков** (Volkov), **Кудь-Сверчков/Матвеев** (Serguei Kud'-Sverchkov/Denis Matveev), NASA

?? [Proton-M](#)/ DM3 3xGlonass K2 / K19, K20, K21



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Apr??	??	GOES-T
Apr??	Epsilon SLIM (Smart Lander for Investigating Moon)	
Apr??	CZ-3B/E	Nicasat 1
??	CZ7	TZ 3 Tianzhou 3 (Logistic Cargo Vehicle)
??	CZ-2F/G	SZ-13 Shenzhou-13
May??	Falcon 9 FT	Dragon SpX-19
June01.	Atlas 5 402 / Falcon 9 v1.1	USCV-4 (US Commercial Vehicles)
June30.	Soyuz-2 1A	Soyuz MS 13
June??	Atlas 5 401	STP-03
Sep30.	Soyuz-2 1A	Soyuz MS 14
Sep??	Soyuz-2-1B/Fregat -M	Glonass K1 / 22
??	Falcon 9 FT	Dragon SpX-20
Oct??	Atlas 5 552	Dream Chaser Cargo System
Nov29.	Soyuz-2 1a / Fregat	Luna 25 (Luna-Glob-1)
Dec02.	Atlas 5 402 / Falcon 9 v1.1	USCV-5 (US Commercial Vehicles)
??	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
??	Soyuz-2	Progress MS 12
??	Soyuz-2	Progress MS 13
??	Proton-M/Briz-M	Elektro L - 5
??	Soyuz ST / Vega	MicroCarb
??	Soyuz ST B/ Fregat -MT	Sentinel-1C
??	Ariane 5	ViaSat-3
??	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



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?? [PSLV](#) XL [Aditya'](#)

2020.

Mar30. Soyuz 2-1A Sojuz MS-15

Mar?? [Delta IV-M](#) DMSP-5D3 F20
Mar?? [Soyuz-2-1B/Fregat-M](#) Glonass K1 / 22

?? CZ7 TZ 4 Tianzhou 4 (Logistic Cargo Vehicle)

?? CZ-2F/G SZ-14 Shenzhou-14

?? [CZ-3B/G2](#) ZX-18 Zhongxing-18

June01. [Atlas 5](#) 402 / [Falcon 9](#) v1.1 USCV-6 (US Commercial Vehicles)

June?? Ariane MTG-S1/Sentinel-4A

?? [Soyuz ST B/Fregat-MT](#) MetOp-SG A1/EPS-SG-a/Sentinel-5A
?? [Proton-M/Briz-M](#) ExoMars (CM+DM)

July?? Atlas V (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.

?? 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.

?? CZ-5B Wentian Lab module Space station module

Sep30. Soyuz 2-1A Sojuz MS-16

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

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.

Dec?? Atlas V 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



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??	Antares	IMAP/STP-05
??	Falcon H	ViaSat 3
??	Soyuz-2	Progress MS 14
??	Soyuz-2	Progress MS 15
??	Soyuz-2	Progress MS 16
??	Soyuz-2 1a / Fregat	Luna 26 (Luna-Resurs OA)
??	Proton-M/Briz-M	Ekspress - 103
??	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
??	Vega	Sentinel-2C
??	Vega	Sentinel-3C
??	??	Biomass
??	??	Seosat-Ingenio-2
??	??	EPS-SG-b
??	CZ	Recoverable Moon Probes
??	CZ	Two Meter Space Telescope
??	CZ	FY-4C Fengyun-4C
??	GSLV MK III	MOM-2 Follow on Mars Mission
??	H-IIA	Hope (UAE mission to Mars)
2021.		
Mar30.	Soyuz-2 -1A	Sojuz MS-17
Apr??	Soyuz ST B/ Fregat M	MarcoPolo-R
May??	Proton-M / DM-03	Spektr - UF
??	CZ7	TZ 5 Tianzhou 5 (Logistic Cargo Vehicle)
??	CZ-2F/G	SZ-15 Shenzhou-15
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??	Angara A5P	Federatsia (unmanned)
??	SLS Block I	Europa Clipper
??	Soyuz-2	Progress MS 17
??	Soyuz-2	Progress MS 18
??	Soyuz-2	Progress MS 19



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?? [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 – RV1, 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
 ?? ?? Ямал GK 1
 ?? [Soyuz-2-1b](#) Bion-M No. 2
 ?? [Angara](#) A5P/DM03 Enisei A-1

?? [Vega](#) Sentinel-1A 2nd Gen

?? CZ Venus Global Sensing Probe
 ?? CZ FY-3G Fengyun-3G (Batch 2)

2022.

Jan?? ?? Solar Sentinals

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 Sojuz MS-19

Apr?? [Angara](#) A5/ DM 03 Elektro M – 1-2

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

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

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

June?? Ariane 5 MTG-I2

?? CZ-5B Xuntian Lab module Space station module

Aug?? H2B Phobos sample return

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

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

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

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

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



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??	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
Sep30.	Soyuz-2 -1A	Sojuz MS-22
??	SLS Block IA II	Orion: Exploration Mission 3 (Crew to Cislunar)
??	Angara A5P	Federatsia (unmaned flight to ISS)
??	Angara A5P	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.

?? Russia to launch a [Luna-Grunt mission](#) (Luna-29) to return lunar soil samples from the polar regions of the Moon back to Earth.

??	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
??	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
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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/Briz-M	Ekspress – 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
??	Proton-M / DM-03	Elektro L - 5
??	??	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
??	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 №2
??	CZ	Chang'e-7 (Moon south pole landing)
2026.		
Dec17.	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)



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