



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (09.01.2017.)

2017.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in **red**. Last change **09.Jan2017**.

Jan10.	2220UTC	SS-520-4	TRICOM-1	160
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	
Launch site: Cape Canaveral , USA				
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				
??		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	



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??	Proton-M/Briz-M	Kosmos	140
??	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??	GSLV MK II F09	GSAT-9	
	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)	
	Launch site: Wenchang , China		
Apr??	Rokot / Briz KM	Sentinel 2B	120
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	



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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

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

?? [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

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

Aug?? [Vega](#) (VV10) Venµs, OPTSAT 3000 80

Aug?? [Falcon 9](#) FT [Iridium Next](#) Flight 4 (x10)

?? Epsilon (Jap) ASNARO 2

Sep12. [Soyuz-2](#) 1A [Soyuz MS](#) 6 (S53/54)



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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 60
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
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
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 40



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??	Atlas 5 401	GeoEye - 2	
??	Atlas 5	Solar Orbiter (SolO) (ESA)	
??	CZ-4B	HY-1D Haiyang-1D	
??	CZ-4B	HY-2B Haiyang-2B	
??	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	
??	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	20
??	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)	
??	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	
??	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	



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

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

(25)
(163)

2018.

Jan?? [Vega](#) Seosat (Ingenio)
Jan?? [Antares](#) 230 [Cygnum](#) 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 Vehicle)
?? [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

May30. [Soyuz-2](#) 1A [Soyuz MS](#) 9 (S56/57)
CDR: Александр Михайлович **Самокутяев** (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



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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
??	GSLV MK II	F10 GISAT
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)
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



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??	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	НЭМ-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
??	??	МКА ПН6 (Monika)
??	??Зенит-3SLБФ/ Fregat -СБ	Электро-М №1
??	??	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



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??	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

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



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



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- ?? [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
 ?? 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](#) Ekspres - 103
- ?? [Soyuz-2-1B/Fregat-M](#) Arktika M 3



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??	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 (unmaned)
??	SLS Block I	Europa Clipper
??	Soyuz-2	Progress MS 17
??	Soyuz-2	Progress MS 18
??	Soyuz-2	Progress MS 19
??	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 – 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



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??	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.	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 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
??	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



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2023.

Mar30.
Sep30.

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

Sojuz MS-21
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](#) 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

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



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??	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)