



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (20.02.2017.)

2017.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in **red**. Last change **20.Feb2017**.

Feb22. 0558UTC [Soyuz U](#) [Progress MS 5](#)
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

Feb28. 0527UTC [Falcon 9](#) FT [Echostar 23](#)
Launch site: [Cape Canaveral](#), USA

?? KT-2A (**DF 41 ICBM + two busters at start**) Tiankong-1
Launch site: [Jiuquan](#), China

Mar01. [Atlas 5](#) 401 (AV068) [NROL-79](#) Intruder 12A (NOSS 3-8A) Intruder 12B (NOSS 3-8B)
Launch site: [Vandenberg](#), USA

Mar07. 0149UTC [Vega](#) (VV09) [Sentinel 2B](#) **140**
Launch site: [Kourou](#), French Guiana

Mar08. 2348UTC [Delta IV](#)-M+ (5,4) [WGS 9](#)
Launch site: [Cape Canaveral](#), USA

Mar16. 0100UTC [H-2A](#) [IGS Radar 5](#)
Launch site: [Tanegashima](#), Japan

Mar20. 0256UTC [Atlas 5](#) 401 [Cygnus](#) Orb-7 (CRS-7)
Launch site: [Cape Canaveral](#), USA

Mar21. [Ariane 5](#) ECA (VA236) [SGDC 1](#) / [Koreasat-7](#) (Mugungwa 7)
Launch site: [Kourou](#), French Guiana

Mar31. CZ-?? [CAS-4A](#), [CAS-4B](#)
Launch site: [Taiyuan](#), China

Mar?? [GSLV](#) MK II F09 [GSAT-9](#)
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

Mar?? [Falcon 9](#) FT [SES-10](#)
Launch site: [Cape Canaveral](#), USA

Mar?? [Falcon 9](#) NROL 76
Launch site: [Cape Canaveral](#), USA

?? [Simorgh](#) [Dosti](#)
Launch site: [Semnan](#), Iran

?? [Soyuz-2-1B/Fregat](#)-M [Glonass-M](#)/ 56
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia **130**

?? [CZ-4C](#) Hede-1
?? [CZ-4B](#) HY-1C Haiyang-1C



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Apr04.	Soyuz ST B/Fregat -MT (VS17)	SES 15	
	Launch site: Kourou, French Guiana		
Apr09.	Falcon 9	Dragon SpX-11 (CRS11)	
Apr20.	0713UTC Soyuz-2 1A Soyuz MS 4 (S51/52)		
	CDR: Fyodor Yurichkhin, Jack D. Fischer		
Apr23.	1000UTC PSLV C38	EMISAT / SPADEX	
	Launch site: Satish Dhawan Space Centre, Sriharikota, India		
Apr25.	Ariane 5 (VA237)	ViaSat-2 / Eutelsat 172B	
	Launch site: Kourou, French Guiana		
Apr??	CZ7	TZ 1 Tianzhou 1 (Logistic Cargo Vehicle)	
	Launch site: Wenchang, China		
Apr??	CZ-3B/G2	SJ-13 Shijian-13A; Shijian-13B GEO satellite with electric propulsion system based on DFH-3B bus	
Apr??	Soyuz-2 1A / Fregat M Kanopus V IK		120
	Launch site: Байконур (Baikonur) Cosmodrome, Kazakhstan		
May??	Minotaur-C XL	SkySat 8/9/10/11/12	
May??	Ariane 5 ECA	GSAT-17	
May??	Ariane 5 ECA	Al Yah 3	
May??	Proton-M/Briz-M	EchoStar 21	
	Launch site: Байконур (Baikonur) Cosmodrome, Kazakhstan		
??	GSLV MK III D1	GSAT-19E	
	Launch site: Satish Dhawan Space Centre, Sriharikota, India		
??	Ariane 5 ECA	GSAT-11	
??	Ariane 5 ECA	EuropaSat (HellasSat 3)	
June13.	Atlas 5 541	NROL-42 Trumpet Follow On 2	
June14.	Soyuz-2 1A	Progress MS 6	
June15.	Pegasus-XL	ICON (Helio EX-1)	110
June22.	Atlas 5 (531) (AV074)	AEHF-4	
June??	Proton-M/Briz-M	Blagovest (14Φ149)	
	Launch site: Байконур (Baikonur) Cosmodrome, Kazakhstan		
June??	CZ-3B/E	Alcomsat-1	
June??	LS-1	LandSpace-1	
June??	Rokot / Briz KM	Sentinel-5 Precursor	
June??	CZ-5	SJ-18 (DFH5 bus)	
June??	Falcon 9 FT	Iridium Next Flight 2 (x10)	
??	Falcon H	Demo Flight	
??	Falcon 9 FT	BulgariaSat	
??	Falcon 9 FT	SES-11 /EchoStar 105	100
??	Falcon 9 FT	Inmarsat 5 F4	



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??	Falcon 9 FT	Intelsat 35e	
July15.	0500GMT	Minotaur-4/Orion 38ORS-5: SensorSat	
July15.	Zenit 3-SLB / DM-SLB	AngoSat	
July28.	Soyuz-2 1A Soyuz MS 5 (S52/53)		
CDR: Сергей Николаевич РЯЗАНСКИЙ (Sergei N. Ryazansky), Paolo Nespoli (ESA), Randolph J. Bresnik			
July??	GSLV MK II F11	GSAT-6A	
July??	CZ-3B /YZ-1	Beidou 3, Beidou 3	
July??	Falcon 9 FT	KoreaSat 5A	
??	Proton-M/Briz-M	AsiaSat-9	
Aug01.	Falcon 9 FT	Dragon SpX-12	90
Aug03.	Atlas 5 401 (AV075)	TDRS-M	
Aug31.	Atlas 5 421 (AV076)	NROL-52 (Quasar 21)	
Aug??	Vega (VV10) Venus, OPTSAT 3000		
Aug??	CZ-2C	ZH-1 Zengheng 1 (ESEM experimental satellite on Electromagnetism Monitoring)	
Aug??	Falcon 9 FT	Iridium Next Flight 3 (x10)	
??	Epsilon (Jap)	ASNARO 2	
??	Proton-M/Briz-M	Hispasat 1f	
Sep12.	Soyuz-2 1A Soyuz MS 6 (S53/54)		
CDR: Александр Александрович МИСУРКИН (Aleksandr A. Misurkin), Mark T. Vande Hei			
Sep30.	Falcon Heavy	STP-02	
Sep??	CZ-2D	VRSS-2 (Bolivia Remote Sensing Satellite)	80
Sep??	CZ-3B/G2	ZX-6C Zhongxing-6C	
Sep??	CZ-2D	GF-5 Gaofen-5	
??	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 9 FT	ORS-6	
??	Soyuz-2-1V /Volga	Geo IK 2	
??	Soyuz-2-1V / Volga	Гонец-M1	
??	PSLV	IRNSS-1H	70
??	Proton-M/Briz-M	Kosmos	
Oct01.	Antares 230	Cygnus Orb-8	
Oct12.	Soyuz-2 1A	Progress MS 7	
Oct??	Soyuz ST B/Fregat-M	MetOp-C	
Oct??	Falcon 9 FT	SAOCAM 1A	



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Oct??	Delta II 7920-10C	JPSS-1	
Oct??	Ariane 5	Hylas 4	
Oct??	CZ	Ministar-1	
Oct??	Ariane 5 ECA	EDRS-C (Hylas 3)	
Oct??	Falcon 9 FT	Dragon SpX-13	60
Oct??	CZ-11	TY-2, 3, 4, 5 Tianyi	
Oct??	Falcon 9 FT	Iridium Next Flight 4 (x10)	
Nov09.	Atlas 5 401 (AV078)	SBI RS-GEO 4	
Nov30.	Soyuz-2 1A Soyuz MS 7 (S54/55)		
	CDR: Александр Александрович Скворцов (Alexander Skvortsov), Norishige Kanai, Scott Tingle		
Nov??	Falcon 9	Dragon v2 unmanned test	
Nov??	Rokot / Briz KM	Sentinel 3B	
Nov??	CZ-5	Chang'e-5 (Sample return)	
Nov??	Soyuz-2 1A / Fregat	Kanopus V 3, Kanopus V 4	
??	Ariane 5 ES (Alexandre), Galileo-FOC FM18 (Irina)	Galileo-FOC FM15 (Nicole), Galileo-FOC FM16 (Zofia), Galileo-FOC FM17	
??	Falcon 9 FT	SES-14 / GOLD	50
??	Proton-M / DM 3	Electro-L N3	
Dec02.	Atlas 5 402 / Falcon 9 v1.1 USCV-1 (US Commercial Vehicles)		
Dec16.	Falcon 9 FT	Bangabandhu-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??	Vega (VV11) Aeolus / ADM		
Dec??	Soyuz-2-1B /Fregat-M	Meteor M-2-1, two MKA N, Ionosfera 1, Ionosfera 2	40
Dec??	Falcon 9 FT	Iridium Next Flight 5 (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	
??	Soyuz-2-1V	Kosmos 14F150 (geodesy??)	
	Launch site: Плесецк (Plesetsk) Cosmodrome, Russia		
??	Soyuz-2-1B / Fregat Tundra 2		
	Launch site: Плесецк (Plesetsk) Cosmodrome, Russia		
??	Angara 1.2	Kosmos	
??	Soyuz-2-1B	Persona - 3	30
??	Angara A5/ DM03	Kosmos	
??	Zenit 3 SL / Fregat -SB	Lybid'	
??	Proton-M / DM-03	Glonass-M / ??	



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??	Soyuz-2-1B	Pion
??	Soyuz-2-1B	Labirint 11
??	Soyuz-2-1B/Fregat-M	Glonass-M/ 52
??	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) 20	

?? [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-3B/G2	ZX-16 Zhongxing-16 (DFH-4E bus)	
??	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	
??	CZ-4B	HY-1D Haiyang-1D	
??	CZ-4B	HY-2B Haiyang-2B	10
??	CZ-4B	FY-3D Feng Yun-3D	
??	CZ-2D	SaudiSAT 5B	
??	CZ-2D	JL-3 Jilin-3	
??	??	LJ-1 Luojia-1	
??	CZ	Tianyi	
??	CZ-3B/YZ-1	Beidou 3, Beidou 3	
??	CZ-3B/YZ-1	Beidou 3, Beidou 3	

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

??	Safir 1 B	Tadbir
??	Safir 3A	Pars sepher

2 + (21)
10 + (144)

2018.

Jan??	Vega	Seosat (Ingenio)
Feb??	Soyuz-2-1B/Fregat -M	Glonass K2
Feb??	Falcon 9 FT	Dragon SpX-14
Feb??	Soyuz-2 1A	Progress MS 8
Feb??	Falcon 9 FT	Iridium Next Flight 6 (x10)



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??	Soyuz-2-1B/Fregat	Glonass K2 / 13
??	Soyuz-2-1B/Fregat-M	Meteor M-2-2, Ionosfera 3, Ionosfera 4
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??	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.	
Mar??	PSLV	Cartosat-3
Mar??	Atlas 5 (541)	GOES-S
Mar??	Atlas 5 551	AFSPC-11
Mar??	Antares 230	Cygnus Orb-9
??	Soyuz-2-1B/ Fregat-M	Glonass M
??	CZ7	TZ 2 Tianzhou 2 (Logistic Cargo Vehicle)
??	Delta IV-M+(4,2)	GPS III-1
??	GSLV MK III D2	GSAT-20
Apr??	Falcon 9 FT	Dragon SpX-15
Apr??	Soyuz-2 1A	Progress MS 9
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: Александр Михайлович Самокутяев (Aleksander M. Samokutyev), Jeanette J. Epps, Alexander Gerst		
May??	Falcon 9	GPS IIIA-2
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)
June??	Delta II 7320-10C	ICESat-II
June??	Proton-M	MLM
??	Proton-M	PTK NP
??	Vega	TARANIS
??	Soyuz-2 1B / Fregat-M	Glonass K1 / 15
??	CZ-5	Space Station Core Module
??	Soyuz ST	CSO 1
??	Vega	Prisma



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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		
Oct15.	Ariane 5 ES	JWST (James Webb Space Telescope)
Oct16.	Soyuz-2	Progress MS 11
Oct??	Falcon 9 FT	Dragon SpX-17
Oct??	Ariane 5	BepiColombo ESA and ISAS Mercury Orbiters
Oct??	Antares 230	Cygnus Orb-10
??	Proton-M / DM-03	Glonass-M /K16,K17,K18
Nov30.	Soyuz-2 1A	Soyuz MS 11 (S58/59)
CDR: Кононенко (Oleg Kononenko), Serena Onnon , David Saint-Jaques (Can)		
??	Minotaur 1	NROL 111
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
Dec??	Vega	CHEOPS
Dec??	Antares 230	Cygnus OA-11
??	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)
??	Atlas 5 551	AFSPC-7
??	??	Landsat 9
??	??	AEHF 5
??	Soyuz-2 1B	Progress M-UM



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??	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 PN6 (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	OpSis
??	Vega	VNREDSat
??	Vega	LOTUSat
??	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)
??	Ariane 5 ECA	Intelsat 39
??	Soyuz ST B/ Fregat	MetOp-C
??	CZ-2F/G	SZ-12 Shenzhou-12



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??	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
??	GSLV MK II	F12 GSAT-7A
??	GSLV MK II	F10 GISAT
??	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

June?? [Atlas 5](#) 401 STP-03

?? [PSLV](#) C37 RISAT 1A

Sep30. [Soyuz-2](#) 1A Soyuz MS 14



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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)
??	Vega	Proba 3
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
??	Ariane 5	JCSat 17
??	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 Vehicle)
??	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
??	Soyuz ST / Vega	Merlin
??	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



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??	??	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.	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 5ECA	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. [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](#) 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
??	??	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)