



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (06.03.2017.)

2017.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in **red**. Last change **06.Mar.2017**.

- Mar07. 0149UTC [Vega](#) (VV09) [Sentinel 2B](#)
Launch site: [Kourou](#), French Guiana
- Mar08. 2348UTC [Delta IV-M+](#) (5,4) [WGS 9](#)
Launch site: [Cape Canaveral](#), USA
- Mar12. 0528UTC [Falcon 9](#) FT 032 [Echostar 23](#)
Launch site: [Cape Canaveral](#), USA
- Mar16. 0100UTC [H-2A](#) [JGS 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 **130**
- Mar31. CZ-?? [CAS-4A, CAS-4B](#)
Launch site: [Taiyuan](#), China
- Mar31.** [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
- ?? [Soyuz-2-1B/Fregat-M](#) [Glonass-M](#)/ 56
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia
- ?? [CZ-4B](#) [Haiyang-1C](#) HY-1C
Launch site: [Taiyuan](#), China
- Apr04. **1447UTC** [Soyuz ST B/Fregat](#)-MT (VS17) **SES 15**
Launch site: [Kourou](#), French Guiana
- Apr09. [Falcon 9](#) [Dragon](#) SpX-11 (CRS11)
Launch site: [Cape Canaveral](#), USA
- Apr20. 0713UTC [Soyuz-2](#) 1A [Soyuz MS](#) 4 (S51/52)
CDR: Fyodor Yurichkhin, Jack D. Fischer
- Apr25. [Ariane 5](#) (VA237) [ViaSat-2](#) / [Eutelsat 172B](#)
Launch site: [Kourou](#), French Guiana
- Apr29.** [Proton-M/Briz-M](#) [EchoStar 21](#)
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan **120**



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Apr??	CZ7	Tianzhou 1	TZ 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??	Falcon 9	NROL 76	
Launch site: Cape Canaveral , USA			
Apr??	Falcon 9 FT	Intelsat 35e	
May??	PSLV C38	Cartosat-2E	
Launch site: Satish Dhawan Space Centre , Sriharikota, India			
May??	Minotaur-C XL	SkySat	8/9/10/11/12
May??	Ariane 5 ECA	GSAT-17	
May??	Ariane 5 ECA	Al Yah 3	
May??	Falcon 9 FT	Inmarsat 5 F4	
??	GSLV MK III D1	GSAT-19E	
Launch site: Satish Dhawan Space Centre , Sriharikota, India 110			
??	Ariane 5 ECA	GSAT-11	
June13.	Atlas 5 541	NROL-42 Trumpet Follow On 2	
June14.	Soyuz-2 1A	Progress MS 6	
June15.	Pegasus-XL	ICON (Helio EX-1)	
June22.	Atlas 5 (531) (AV074)	AEHF-4	
June28.	Ariane 5 ECA	EuropaSat (HellasSat 3)	
June29.	Soyuz-2 1A / Fregat M	Kanopus V I K	
Launch site: Байконур (Baikonur) Cosmodrome, Kazakhstan			
June??	Proton-M/Briz-M	Blagovest (14Φ149)	
Launch site: Байконур (Baikonur) Cosmodrome, Kazakhstan			
June??	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			
June??	CZ-3B/E	Alcomsat-1	100
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)	
June??	Falcon 9 FT	Formosat 5	
??	Falcon H	Demo Flight	
July15.	0500GMT	Minotaur-4/Orion 38ORS-5: SensorSat	
July28.	Soyuz-2 1A	Soyuz MS 5 (S52/53)	



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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	90
July??	Falcon 9 FT	KoreaSat 5A	
??	Proton-M/Briz-M	AsiaSat-9	
Aug01.	Falcon 9 FT	Dragon SpX-12	
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)	
Aug??	CZ-2D	Fengmaniu-1	
??	Epsilon (Jap)	ASNARO 2	80
??	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			
Sep23.	Delta II 7920-10C	JPSS-1	
Sep30.	Falcon Heavy	STP-02	
Sep??	CZ-2D	VRSS-2 (Bolivia Remote Sensing Satellite)	
Sep??	CZ-3B/G2	ZX-6C Zhongxing-6C	
Sep??	CZ-2D	GF-5 Gaofen-5	
Sep??	Zenit 3-SLB / DM-SLB	AngoSat	
Sep??	CZ-4B	FY-3D Feng Yun-3D	
??	Rokot / Briz KM	Gonets x 3 (No 24,25,26), Blits-M	
Launch site: Плесецк (Plesetsk) Cosmodrome, Russia			70
??	Falcon 9 FT	Es'hail 2	
??	CZ	HY-3A Haiyang-3A	
??	Falcon 9 FT	SES-16	
??	Falcon 9 FT	ORS-6	
??	Rokot / Briz KM	Geo IK 2	
??	Soyuz-2-1V / Volga	Гонец-M1	
??	PSLV	IRNSS-1H	
??	Proton-M/Briz-M	Kosmos	
??	Falcon 9 FT	BulgariaSat	
Oct01.	Antares 230	Cygnus Orb-8	60
Oct03.	Delta IV -M+(5,2)	NROL-47 (Topaz 5)	
Oct12.	Soyuz-2 1A	Progress MS 7	
Oct??	Falcon 9 FT	SAOCAM 1A	



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Oct??	Ariane 5	Hylas 4	
Oct??	CZ	Ministar-1	
Oct??	Ariane 5 ECA	EDRS-C (Hylas 3)	
Oct??	Falcon 9 FT	Dragon SpX-13	
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	50
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	
??	Proton-M/ DM 3	Electro-L N3	
??	Falcon 9 FT	Amazonas 5	
Dec16.	Falcon 9 FT	Bangabandhu-1	40
Dec??	CZ-2D	GJ-3 GaoJing-3, GJ-4 GaoJing-4	
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	
Dec??	Falcon 9 FT	Iridium Next Flight 5 (x10)	
??	Falcon 9 FT	PSN VI	
??	CZ-4B	HY-1D Haiyang-1D	
??	CZ-4B	HY-2B Haiyang-2B	
??	Soyuz-2 -1V	Kosmos 14F150 (geodesy??)	30
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	
??	Angara A5/ DM03	Kosmos	
??	Zenit 3 SL / Fregat -SB	Lybid'	
??	Proton-M/ DM-03	Glonass-M/ ??	
??	Soyuz-2 -1B	Pion	
??	Soyuz-2 -1B	Labirint 11	
??	Ariane 5 ECA	BSat 4a	
??	Ariane 5 ECA	SES 12	20
??	Ariane 5 ECA	Azerspace 2 (Intelsat 38)	



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??	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-2D	SaudiSAT 5B	
??	CZ-2D	JL-3 Jilin-3	
??	??	LJ-1 Luojia-1	
??	CZ	Tianyi	
??	CZ-4C	Hede-1	

??	CZ-3B/YZ-1	Beidou 3, Beidou 3
??	CZ-3B/YZ-1	Beidou 3, Beidou 3

?? [PSLV](#) IRNSS-1I

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

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

2 + (26)
13 + (135)

2018.

Jan?? [Vega](#) Seosat (Ingenio)

?? [Soyuz-2-1B/Fregat-M](#) [Glonass-M](#)/ 52

Feb??	Falcon 9 FT	Dragon SpX-14
Feb??	Soyuz-2 1A	Progress MS 8
Feb??	Falcon 9 FT	Iridium Next Flight 6 (x10)

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

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

Mar20. [Falcon 9](#) FT TESS



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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
 Mar?? [Soyuz ST](#) B/Fregat-MT OneWeb smalsat (x10)

?? [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

?? [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.

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?? [Falcon 9](#) Dragon v2 manned test
 May?? [Ariane 5](#) ECA [GEO-KOMPSAT-2A](#)

?? CZ-2F/G SZ-12 Shenzhou-12

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
 ?? [Vega](#) Cosmo-SkyMed Secon Gen 1 [CSG-1](#)

July01. [Soyuz-2](#) [Progress MS](#) 10

July?? [PSLV](#) Oceansat-3



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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)
??	Soyuz ST B/Fregat -MT	OneWeb smalsat (x32)
Sep30.	Soyuz-2 1A	Soyuz MS 10 (S57/58)
CDR: Геннадий Иванович Падалка (Padalka), Бабкин (Andrei Babkin), NASA probably Aunon		
Sep??	Atlas 5 402 / Falcon 9 v1.1	USCV-1 (US Commercial Vehicles)
??	Soyuz ST B/Fregat -MT	OneWeb smalsat (x32)
Oct15.	Ariane 5 ES	JWST (James Webb Space Telescope)
Oct16.	Soyuz-2	Progress MS 11
Oct31.	Atlas 5	Solar Orbiter (SoIO) (ESA)
Oct??	Falcon 9 FT	Dragon SpX-17
Oct??	Ariane 5	BepiColombo ESA and ISAS Mercury Orbiters
Oct??	Antares 230	Cygnus Orb-10
Oct??	Soyuz ST B/Fregat -M	MetOp-C
??	Proton-M/ DM-03	Glonass-M/ K16,K17,K18
??	Ariane 5 ECA	Intelsat 39
Nov30.	Soyuz-2 1A	Soyuz MS 11 (S58/59)
CDR: Кононенко (Oleg Kononenko), Serena Onnon , David Saint-Jaques (Can)		
??	Minotaur 1	NROL 111
??	Soyuz ST B/Fregat -MT	OneWeb smalsat (x32)
Nov??	SLS-1	Orion (unmanned trip around the Moon) Exploration Mission 1 (Distant Retrograde Orbit (DRO) Tactical DRM)
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
Dec??	Atlas 5 402 / Falcon 9 v1.1	USCV-2 (US Commercial Vehicles)
??	Falcon H	Circumlunar Dragon V2
??	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



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??	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
??	??	MKA PN6 (Monika)
??	??	Картограф-ОЭ №1
??	Ariane 5 ES	Galileo-FOC FM19 (Tara), Galileo-FOC FM20 (Samuel), Galileo-FOC FM21 (Anna), Galileo-FOC FM22 (Ellen)
??	Ariane 5 ECA	Intelsat 37e
??	Ariane 5 ECA	Hellas-Sat-4
??	Ariane 5 ECA	DSN 1 (Superbird-8)
??	CZ-2F/G	SZ-12 Shenzhou-12
??	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



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??	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
??		Safir 1 B	Tadbir
??		Safir 3A	Pars sepheer
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
May??	Atlas 5	402 / Falcon 9	v1.1 USCX-3 (US Commercial Vehicles)
June30.	Soyuz-2	1A	Soyuz MS 13
June??	Atlas 5	401	STP-03
June??	Ariane 5		MTG-I1
??	PSLV	C37	RISAT 1°
??	CZ-3B/G2		TECSTAR 1
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)



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??	Vega	Proba 3	
Dec??	Atlas 5 402 / Falcon 9 v1.1	USCV-4 (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	
??	Vega	Jason-CS A	
??	Vega	EarthCare	
??	Vega	OpSis	
??	Vega	VNREDSat	
??	Vega	LOTUSat	
??	Ariane 5 ECA	Jabiru 2	
??	Ariane 5	Arsat 3	
??	Ariane 5 ECA	Jabiru-1	
??	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)	



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??	CZ-2F/G	SZ-14 Shenzhou-14
??	CZ-3B/G2	ZX-18 Zhongxing-18
June??	Atlas 5 402 / Falcon 9 v1.1	USCV-5 (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
Dec??	Atlas 5 402 / Falcon 9 v1.1	USCV-6 (US Commercial Vehicles)
??	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
??	??	HyspIRI
??	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



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?? [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

June?? [Atlas 5 402 / Falcon 9 v1.1](#) [USCV-7 \(US Commercial Vehicles\)](#)

?? CZ7 TZ 5 Tianzhou 5 (Logistic Cargo Vechile)

?? 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)

Dec?? [Atlas 5 402 / Falcon 9 v1.1](#) [USCV-8 \(US Commercial Vehicles\)](#)

?? 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](#) Ekspres – RV1, RV2

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

?? [Soyuz-2-1B/Fregat-M](#) Meteor M No2-4



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??	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
??	Soyuz ST / Vega	Merlin
??	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-12

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

?? 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

Dec?? [Atlas 5 402](#) / [Falcon 9 v1.1](#) [USCV-10 \(US Commercial Vehicles\)](#)

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

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

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

?? [Proton-M/Briz-M](#) Ekspres - AMU 5

?? [Proton-M/Briz-M](#) Ekspres - AMU 6

?? [Proton-M/Briz-M](#) Ekspres - RV 4

?? [Angara](#) 1.2 [Gonets](#) x 3



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??	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
June??	Atlas 5 402 / Falcon 9 v1.1	USCV-11 (US Commercial Vehicles)
Sep30.	Soyuz-2 -1A	Sojuz MS-22
Dec??	Atlas 5 402 / Falcon 9 v1.1	USCV-12 (US Commercial Vehicles)
??	SLS Block IA II	Orion: Exploration Mission 3 (Crew to Cislunar)
??	Angara A5P	Federatsia (unmanned 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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June??	Atlas 5 402 / Falcon 9 v1.1	USCV-13 (US Commercial Vehicles)
Sep30.	Soyuz-2 -1A	Sojuz MS-24
Oct??	EELV	GOES-U
??	SLS Block IA II	Orion: Exploration Mission 4 (Crew to Cislunar)
??	Soyuz-2	Progress MS 26
??	Soyuz-2	Progress MS 27
??	Soyuz-2	Progress MS 28
??	Soyuz-2 1b	Luna28 (Luna-Grunt-1) delivering a new-generation rover for gathering, analysis and uploading of samples
??	Proton-M/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



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CZ

Chang'e-8 (Moon north pole landing)