



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (13.02.2017.)

2017.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in **red**. Last change **13.Feb2017**.

Feb14. 2139UTC [Ariane 5](#) ECA (VA235) [Intelsat 32e](#) (SkyBrasil – 1) / [Telkom 3S](#)
Launch site: [Kourou](#), French Guiana

Feb15. 0358UTC [PSLV](#) XL C37 [Cartosat-2D](#)
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

Feb18. 1501UTC [Falcon 9](#) 032 [Dragon](#) SpX-10
Launch site: [Cape Canaveral](#), USA

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

?? **KT-2A** **Tiankong-1**

Mar01. 0528UTC [Falcon 9](#) FT [Echostar 23](#) **140**
Launch site: [Cape Canaveral](#), USA

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](#)
Launch site: [Kourou](#), French Guiana

Mar08. 2348UTC [Delta IV](#)-M+(5,4) [WGS 9](#)
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

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 **130**

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



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- ?? [Soyuz-2-1B/Fregat-M](#) [Glonass-M/](#) 56
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia
- ?? [CZ-4C](#) Hede-1
?? [CZ-4B](#) HY-1C Haiyang-1C
- Apr04. [Soyuz ST B/Fregat](#)-MT (VS17) SES 15
- 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
- Apr25. [Ariane 5](#) (VA237) ViaSat-2 / Eutelsat 172B
- Apr?? CZ7 TZ 1 Tianzhou 1 (Logistic Cargo Vehicle) 120
Launch site: [Wenchang](#), China
- Apr?? [Proton-M/Briz-M](#) [EchoStar 21](#)
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan
- 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
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan
- Apr?? [Falcon 9](#) FT [Iridium Next](#) Flight 2 (x10)
- 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](#) [Blagovest \(14Ф149\)](#)
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan
?? [GSLV](#) MK III D1 GSAT-19E
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India
- ?? [Ariane 5](#) ECA GSAT-11 110
?? [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)
- June22. [Atlas 5](#) (531) (AV074) AEHF-4
- 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)



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??	Falcon H	Demo Flight	100
??	Falcon 9 FT	BulgariaSat	
??	Falcon 9 FT	SES-11 /EchoStar 105	
??	Falcon 9 FT	Inmarsat 5 F4	
??	Falcon 9 FT	Intelsat 35e	
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??	Minotaur-4/Orion 38	ORS-5: SensorSat	
July??	GSLV MK II	F11 GSAT-6A	
July??	CZ-3B /YZ-1	Beidou 3, Beidou 3	
July??	Falcon 9 FT	KoreaSat 5A	90
July??	Falcon 9 FT	Iridium Next Flight 3 (x10)	
??	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	
Aug??	Vega (VV10)	Venus, OPTSAT 3000	
Aug??	CZ-2C	ZH-1 Zengheng 1 (ESEM experimental satellite on Electromagnetism Monitoring)	
??	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	80
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??	Falcon 9 FT	Iridium Next Flight 4 (x10)	
??	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	70
??	Soyuz-2-1V / Volga	Гонец-M1	
??	PSLV	IRNSS-1H	
??	Proton-M/Briz-M	Kosmos	
Oct01.	Antares 230	Cygnus Orb-8	



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Oct12.	Soyuz-2 1A	Progress MS 7	
Oct??	Soyuz ST B/Fregat-M	MetOp-C	
Oct??	Falcon 9 FT	SAOCAM 1A	
Oct??	Delta II 7920-10C	JPSS-1	
Oct??	Ariane 5	Hylas 4	
Oct??	CZ	Ministar-1	60
Oct??	Ariane 5 ECA	EDRS-C (Hylas 3)	
Oct??	Falcon 9 FT	Dragon SpX-13	
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??	Falcon 9 FT	Iridium Next Flight 5 (x10)	
Nov??	Soyuz-2 1A / Fregat	Kanopus V 3, Kanopus V 4	
??	Ariane 5 ES	Galileo-FOC FM15 (Nicole), Galileo-FOC FM16 (Zofia), Galileo-FOC FM17	
(Alexandre), Galileo-FOC FM18 (Irina)			50
??	Falcon 9 FT	SES-14 / GOLD	
??	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??	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	40
Dec??	Vega (VV11)	Aeolus / ADM	
Dec??	Soyuz-2 -1B/Fregat-M	Meteor M-2-1, two MKA N, Ionosfera 1, Ionosfera 2	
??	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	



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??	Soyuz-2-1B	Persona – 3	30
??	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	
??	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

1 + (22)
 7 + (145)

2018.

Jan?? [Vega](#) Seosat (Ingenio)
 Jan?? [Falcon 9](#) FT [Iridium Next](#) Flight 6 (x10)



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Feb??	Soyuz-2-1B/Fregat -M	Glonass K2
Feb??	Falcon 9 FT	Dragon SpX-14
Feb??	Soyuz-2 1A	Progress MS 8
??	Soyuz-2-1B/Fregat	Glonass K2 / 13
??	Soyuz-2-1B/Fregat -M	Meteor M-2-2, Ionosfera 3, Ionosfera 4
Mar15.	CZ-3B/G11	APStar-6C
Mar30.	Soyuz-2 1A Soyuz MS 8 (S55/56)	
CDR: Сергей Прокопьев (Sergei V. Prokoryev, 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
Mar??	Falcon 9 FT	Iridium Next Flight 7 (x10)
??	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 Самокутнев (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
??	Soyuz-2-1B/ Fregat -M	Glonass K1 / 15
??	CZ-5	Space Station Core Module



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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
??	GSLV MK II	F10 GISAT
Nov30.	Soyuz-2 1A	Soyuz MS 11 (S58/59)
CDR: Конonenko (Oleg Kononenko), Serena Onnon , David Saint-Jaques (Can)		
Nov??	Vega	Proba 3
??	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



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??	??	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
??	??	MKA 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
??	Vega	Prisma
??	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)



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??	Ariane 5 ECA	Intelsat 39
??	Soyuz ST B/Fregat	MetOp-C
??	Vega	TARANIS
??	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
??	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)



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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
??	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



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??	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
??	??	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)



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??	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
??	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



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??	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. 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 Vechile)

?? 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](#) Ekspres – AMU 5

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

?? [Proton-M/Briz-M](#) Ekspres – 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



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?? 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 (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](#) 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



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?? [Soyuz-2](#) 1b Luna28 (Luna-Grunt-1) delivering a new-generation rover for gathering, analysis and uploading of samples

?? [Proton-M/Briz-M](#) Ekspres – 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)