



## Blog Gorana Hudeca

### Predstojeća lansiranja u Svemir (20.04.2016.)

2017.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in **red**. Last change **20.Apr.2017**.

Apr20. 0713UTC [Soyuz-2](#) 1A [Soyuz MS](#) 4 (S51/52)

CDR: Fyodor Yurichkhin, Jack D. Fischer

Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

Apr20. 1140UTC CZ7 [Tianzhou 1](#) TZ 1 (Logistic Cargo Vehicle)

Launch site: [Wenchang](#), China

Apr30. 1100UTC [Falcon 9](#) [NROL 76](#)

Launch site: [Cape Canaveral](#), USA

Apr?? [Ariane 5](#) ECA (VA236) [SGDC 1](#) / [Koreasat-7](#) (Mugungwa 7)

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

**May05. 1127UTC** [GSLV](#) MK II F09 [GSAT-9](#)

Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

May15. 2320UTC [Falcon 9](#) FT [Inmarsat 5 F4](#) **120**

Launch site: [Cape Canaveral](#), USA

May29. [Proton-M/Briz-M](#) [EchoStar 21](#)

Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

May31. 2330UTC [Falcon 9](#) [Dragon](#) SpX-11 (CRS11)

Launch site: [Cape Canaveral](#), USA

May?? [Ariane 5](#) (VA237) [ViaSat-2](#) / [Eutelsat 172B](#)

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

May?? [PSLV](#) C38 [Cartosat-2E](#)

Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

**May?? 1447UTC** [Soyuz ST](#) B/[Fregat](#)-MT (VS17) [SES 15](#)

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

**June01.** [H-2A](#) QSZ-3

June13. [Atlas 5](#) 541 NROL-42 Trumpet Follow On 2

June14. [Soyuz-2](#) 1A [Progress MS](#) 6

June17. [Falcon 9](#) FT [Iridium Next](#) Flight 2 (x10)

June28. [Ariane 5](#) ECA (VA238) EuropaSat (HellasSat 3) / GSAT-17

June29. [Soyuz-2](#) 1A / [Fregat](#) M [Kanopus V](#) IK

Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

June?? [Proton-M/Briz-M](#) [Blagovest \(14Φ149\)](#) **110**



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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?? [GSLV](#) MK III D1 GSAT-19E  
 Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

June??	<a href="#">CZ-3B/E</a>	Alcomsat-1
June??	LS-1	LandSpace-1
June??	CZ-5	SJ-18 (DFH5 bus)
June??	<a href="#">CZ-2D</a>	Shaonian Xing
June??	<a href="#">Falcon 9</a> FT	Intelsat 35e
June??	<a href="#">Falcon 9</a> FT	SES 11
June??	<a href="#">Falcon 9</a> FT	BulgariaSat

July15. 0500GMT Minotaur-4/Orion 38ORS-5: SensorSat 100

July22. [Falcon 9](#) FT Formosat 5

July25. [Vega](#) (VV10) Venµs, OPTSAT 3000

July28. [Soyuz-2](#) 1A [Soyuz MS](#) 5 (S52/53)  
 CDR: Сергей Николаевич **РЯЗАНСКИЙ** (Sergei N. Ryazansky), Paolo Nespoli (ESA), Randolph J. Bresnik

July??	<a href="#">CZ-3B/YZ-1</a>	Beidou 3 MEO M1, Beidou 3 MEO M2
July??	<a href="#">Falcon 9</a> FT	KoreaSat 5A
July??	<a href="#">CZ-3B/G2</a>	ZX-9A Zhongxing-9A
July??	<a href="#">Proton-M/Briz-M</a>	Amazonas 5

Aug01. [Falcon 9](#) FT [Dragon](#) SpX-12

Aug03. 1240UTC [Atlas 5](#) 401 (AV075) TDRS-M

Aug16. [CZ-2D](#) ZH-1 Zengheng 1 (ESEM experimental satellite on Electromagnetism Monitoring)  
90

Aug24. [Falcon 9](#) FT [Iridium Next](#) Flight 3 (x10)

Aug31. [Atlas 5](#) 421 (AV076) NROL-52 (Quasar 21)

Aug??	<a href="#">CZ-2D</a>	Fengmaniu-1
Aug??	<a href="#">Rokot / Briz KM</a>	Sentinel-5 Precursor
Aug??	Pegasus-XL	ICON (Helio EX-1)
Aug??	<a href="#">Proton-M/Briz-M</a>	Kosmos

??	Epsilon (Jap)	ASNARO 2
??	<a href="#">Ariane 5</a> ECA	Al Yah 3
??	<a href="#">Ariane 5</a> ECA	BSat 4a

Sep12. [Soyuz-2](#) 1A [Soyuz MS](#) 6 (S53/54)  
 CDR: Александр Александрович **МИСУРКИН** (Aleksandr A. Misurkin), Mark T. Vande Hei, Joseph M. Acaba  
80



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Sep23.	Delta II 7920-10C	<a href="#">JPSS-1</a>	
Sep30.	Falcon Heavy	STP-02	
Sep??	<a href="#">CZ-2D</a>	VRSS-2 (Bolivia Remote Sensing Satellite)	
Sep??	<a href="#">CZ-3B/G2</a>	ZX-6C Zhongxing-6C	
Sep??	<a href="#">CZ-2D</a>	GF-5 Gaofen-5	
Sep??	Zenit 3-SLB / DM-SLB	AngoSat	
Sep??	<a href="#">CZ-4B</a>	FY-3D Feng Yun-3D	
Sep??	<a href="#">CZ-3B/YZ-1</a>	Beidou 3 MEO M3, Beidou 3 MEO M4	
Sep??	<a href="#">GSLV</a> MK II F11	GSAT-6A	
Sep??	Minotaur-C XL	SkySat 8/9/10/11/12	70
??	<a href="#">Rokot / Briz KM</a>	<a href="#">Gonets</a> x 3 (No 24,25,26), Blits-M	
Launch site: Плесецк ( <a href="#">Plesetsk</a> ) Cosmodrome, Russia			
??	<a href="#">Falcon 9</a> FT	SES-16	
??	<a href="#">Falcon 9</a> FT	ORS-6	
??	<a href="#">Rokot / Briz KM</a>	Geo IK 2	
??	<a href="#">Soyuz-2-1V</a> / Volga	Гонец-M1	
??	<a href="#">PSLV</a>	IRNSS-1H	
??	Falcon H	Demo Flight	
Oct01.	<a href="#">Antares</a> 230	<a href="#">Cygnus</a> Orb-8	
Oct11.	<a href="#">Atlas 5</a> (531) (AV074)	AEHF-4	
Oct12.	<a href="#">Soyuz-2</a> 1A	<a href="#">Progress MS</a> 7	60
Oct18.	<a href="#">Delta IV</a> -M+(5,2)	NROL-47 (Topaz 5)	
Oct26.	<a href="#">Soyuz-2</a> 1A	<a href="#">Soyuz MS</a> 7 (S54/55)	
CDR: Alexander Skvortsov, Norishige Kanai, Scott Tingle			
Oct??	<a href="#">Falcon 9</a> FT	SAOCAM 1A	
Oct??	<a href="#">Ariane 5</a>	Hylas 4	
Oct??	CZ	Ministar-1	
Oct??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-13	
Oct??	CZ-11	TY-2, 3, 4, 5 Tianyi	
Oct??	<a href="#">Falcon 9</a> FT	<a href="#">Iridium Next</a> Flight 4 (x10)	
Oct??	<a href="#">CZ-3B/YZ-1</a>	Beidou 3 MEO M5, Beidou 3 MEO M6	
Oct??	<a href="#">Proton-M/Briz-M</a>	AsiaSat-9	50
Nov09.	<a href="#">Atlas 5</a> 401 (AV078)	SBI RS-GEO 4	
Nov??	<a href="#">Falcon 9</a>	Dragon v2 unmanned test	
Nov??	<a href="#">Rokot / Briz KM</a>	Sentinel 3B	
Nov??	CZ-5	Chang'e-5 (Sample return)	
Nov??	<a href="#">Soyuz-2</a> 1A / Fregat	Kanopus V 3, Kanopus V 4	
Nov??	<a href="#">Vega</a> (VV11)	Aeolus / ADM	
??	<a href="#">Ariane 5</a> ES	<a href="#">Galileo-FOC</a> FM15 (Nicole), <a href="#">Galileo-FOC</a> FM16 (Zofia), <a href="#">Galileo-FOC</a> FM17	
(Alexandre), <a href="#">Galileo-FOC</a> FM18 (Irina)			
??	<a href="#">Falcon 9</a> FT	SES-14 / GOLD	



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??	<a href="#">Proton-M/</a> DM 3	Electro-L N3	
Dec16.	<a href="#">Falcon 9</a> FT	Bangabandhu-1	40
Dec28.	<a href="#">PSLV</a>	Team Indus	
Dec??	<a href="#">CZ-2D</a>	GJ-3 GaoJing-3, GJ-4 GaoJing-4	
Dec??	<a href="#">Falcon 9</a> FT	Grace-FO	
Dec??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Meteor M-2-1, two MKA N, Ionosfera 1, Ionosfera 2	
Dec??	<a href="#">Falcon 9</a> FT	<a href="#">Iridium Next</a> Flight 5 (x10)	
Dec??	<a href="#">CZ-3B/YZ-1</a>	Beidou 3 MEO M7, Beidou 3 MEO M8	
Dec??	<a href="#">CZ-3C</a>	Beidou 2 G8	
Dec??	<a href="#">Ariane 5</a> ECA	GSAT-11	
Dec??	<a href="#">Proton-M/</a> DM 3	Kosmos	
??	<a href="#">Falcon 9</a> FT	PSN VI	30
??	<a href="#">Falcon 9</a> FT	PAZ	
??	<a href="#">Soyuz-2-1V</a>	Kosmos 14F150 (geodesy??)	
Launch site: Плесецк ( <a href="#">Plesetsk</a> ) Cosmodrome, Russia			
??	<a href="#">Soyuz-2-1B/ Fregat</a> <a href="#">Tundra 2</a>		
Launch site: Плесецк ( <a href="#">Plesetsk</a> ) Cosmodrome, Russia			
??	<a href="#">Soyuz-2-1B/Fregat-M</a> <a href="#">Glonass-M/</a> 56		
Launch site: Плесецк ( <a href="#">Plesetsk</a> ) Cosmodrome, Russia			
??	<a href="#">Angara</a> 1.2	Kosmos	
??	<a href="#">Soyuz-2-1B</a>	Persona – 3	
??	<a href="#">Angara</a> A5/ DM03	Kosmos	
??	<a href="#">Zenit 3 SL /Fregat-SB</a>	Lybid'	
??	<a href="#">Proton-M/</a> DM-03	<a href="#">Glonass-M/</a> ??	
??	<a href="#">Soyuz-2-1B</a>	Pion	20
??	<a href="#">Soyuz-2-1B</a>	Labirint 11	
??	<a href="#">Ariane 5</a> ECA	SES 12	
??	<a href="#">Ariane 5</a> ECA	Azerspace 2 (Intelsat 38)	
??	CZ-?? <a href="#">CAS-4A, CAS-4B</a>		
Launch site: <a href="#">Taiyuan</a> , China			
??	<a href="#">CZ-3A</a>	FY-2H Fengyun-2H	
??	<a href="#">CZ-2D</a>	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	10
??	<a href="#">CZ-2D</a>	SaudiSAT 5B	
??	<a href="#">CZ-2D</a>	JL-3 Jilin-3	
??	??	LJ-1 Luojia-1	
??	CZ	Tianyi	
??	<a href="#">CZ-4C</a>	Hede-1	



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- ?? [PSLV](#) IRNSS-1I
- ?? [H-2A](#) [IGS Optical-6](#)
- ?? Tronador II/VEX5 TBD (suborbital)  
Launch site: Puerto Belgrano, Argentina
- ?? [Simorgh](#) [Dosti](#)  
Launch site: [Semnan](#), Iran

4 + (24)  
20 + (128)

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)
- Feb?? [CZ-3B/YZ-1](#) Beidou 3 MEO M9, Beidou 3 MEO M10
- Feb?? H-2B (F7) HTV7 140
- ?? [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
- ?? [Ariane 5](#) ECA EDRS-C (Hylas 3)

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

Mar30. [Soyuz-2](#) 1A [Soyuz MS](#) 8 (S55/56)  
CDR: ??, Andrew Feustel, Ricky Arnold

Mar20. [Falcon 9](#) FT TESS

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)
- Mar?? [CZ-3B/YZ-1](#) Beidou 3 MEO M11, Beidou 3 MEO M12
- ?? [Soyuz-2-1B/ Fregat-M](#) Glonass M
- ?? [Delta IV-M+\(4,2\)](#) GPS III-1
- ?? [GSLV](#) MK III D2 GSAT-20
- ?? SS-520-5 TRICOM 1 R
- ?? [GSLV](#) Mk II D9 Chandrayaan 2





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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??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-15	120
Apr??	<a href="#">Soyuz-2</a> 1A	<a href="#">Progress MS</a> 9	
Apr??	<a href="#">Falcon 9</a> FT	<a href="#">Iridium Next</a> Flight 7 (x10)	
May05.	<a href="#">Atlas 5</a> 401	InSight	
Launch site: <a href="#">Vandenberg</a> , USA			
May30.	<a href="#">Soyuz-2</a> 1A	<a href="#">Soyuz MS</a> 9 (S56/57)	
CDR: Александр Михайлович <b>Самокутяев</b> (Aleksander M. Samokutyev), Jeanette J. Epps, Alexander Gerst			
May??	<a href="#">Falcon 9</a>	GPS IIIA-2	
May??	<a href="#">Falcon 9</a>	Dragon v2 manned test	
May??	<a href="#">Ariane 5</a> ECA	GEO-KOMPSAT-2A	
May??	<a href="#">CZ-3B</a> /YZ-1	Beidou 3 MEO M13, Beidou 3 MEO M14	
June??	CZ	L2 Chang'e 4 communications relay satellite	
June??	CZ-2C	Pakistani Remote Sensing Satellite (PRSS) 1	
?June??	<a href="#">Atlas 5</a> 422	CST-100 Starliner (unmanned test)	
June??	Delta II 7320-10C	ICESat-II	
June??	<a href="#">Proton-M</a>	MLM	
??	<a href="#">Proton-M</a>	PTK NP	
??	<a href="#">Vega</a>	TARANIS	
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Glonass K1 / 15	
??	<a href="#">Soyuz ST</a>	CSO 1	
??	<a href="#">Vega</a>	Prisma	
??	<a href="#">Vega</a>	Cosmo-SkyMed Secon Gen 1	CSG-1
July01.	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 10	100
July??	<a href="#">PSLV</a>	Oceansat-3	
July??	Delta 4-H	Solar Probe Plus	
Aug??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	EarthCare	
Aug??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-16	
Aug??	<a href="#">Atlas 5</a> 422	CST-100 Starliner (manned test)	
Aug??	<a href="#">CZ-3C</a>	Beidou 2 I7	
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x32)	
Sep30.	<a href="#">Soyuz-2</a> 1A	<a href="#">Soyuz MS</a> 10 (S57/58)	
CDR: Геннадий Иванович <b>Падалка</b> (Padalka), <b>Бабкин</b> (Andrei Babkin), Nick Hague			
Sep??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a> v1.1	USCV-1 (US Commercial Vehicles)	
Sep??	<a href="#">CZ-3B</a> /YZ-1	Beidou 3 MEO M15, Beidou 3 MEO M16	
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x32)	
Oct15.	<a href="#">Ariane 5</a> ES	JWST (James Webb Space Telescope)	
Oct16.	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 11	



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Oct31.	<a href="#">Atlas 5</a>	<a href="#">Solar Orbiter</a> (SoIO) (ESA)	
Oct??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-17	
Oct??	<a href="#">Ariane 5</a>	<a href="#">BepiColombo</a> ESA and ISAS Mercury Orbiters	
Oct??	<a href="#">Antares</a> 230	<a href="#">Cygnus</a> Orb-10	
Oct??	<a href="#">Soyuz ST</a> B/Fregat-M	MetOp-C	
Oct??	<a href="#">CZ-3C</a>	Beidou 3 G1Q	
??	<a href="#">Proton-M/</a> DM-03	<a href="#">Glonass-M/</a> K16,K17,K18	80
??	<a href="#">Ariane 5</a> ECA	Intelsat 39	
??	CZ-5	Tian He Space Station Core Module	
Nov30.	<a href="#">Soyuz-2</a> 1A	Soyuz MS 11 (S58/59)	
CDR:	<b>Кононенко</b> (Oleg Kononenko), Serena Auñón-Chancellor, David Saint-Jaques (Can)		
??	Minotaur 1	NROL 111	
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x32)	
??	CZ7	TZ 2 Tianzhou 2 (Logistic Cargo Vehicle)	
Nov??	SLS-1	Orion (unmanned trip around the Moon)	Exploration Mission 1 (Distant Retrograde Orbit (DRO) Tactical DRM)
Dec??	<a href="#">CZ-3B/GIII</a>	Chang'e-4 (Moon far side Aitken Basin lander/rover)	
Dec??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-18	
Dec??	<a href="#">Vega</a>	CHEOPS	
Dec??	<a href="#">Antares</a> 230	<a href="#">Cygnus</a> OA-11	
Dec??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	v1.1 USCv-2 (US Commercial Vehicles)	
Dec??	<a href="#">CZ-3B/YZ-1</a>	Beidou 3 MEO M17, Beidou 3 MEO M18	
??	CZ-2F/G	SZ-12 Shenzhou-12	
??	Falcon H	Circumlunar Dragon V2	
??	<a href="#">Soyuz-2-1B/Fregat</a> -M	Glonass K2 / 14	
??	<a href="#">Ariane 5</a>	Heinrich Hertz	
??	<a href="#">Falcon 9</a> v1.2	Radarsat Constellation Mission (x3)	
??	<a href="#">Falcon 9</a> v1.2	OHB SARah satellite (x2)	
??	<a href="#">Falcon 9</a> v1.2	WGS 10	60
??	Minotaur-4	FORMOSAT-7 (6 sat)	
??	<a href="#">Atlas 5</a> 551	AFSPC-7	
??	??	Landsat 9	
??	??	AEHF 5	
??	<a href="#">Falcon 9</a> FT	Es'hail 2	
??	<a href="#">Soyuz-2</a> 1B	Progress M-UM	
??	<a href="#">Proton-M</a>	НЭМ-1	
??	<a href="#">Proton-M/Briz-M</a>	Ямал-501	
??	<a href="#">Soyuz-2-1B/Fregat</a> -M	Метеор-М №3	
??	<a href="#">Soyuz-2-1V</a> / Volga	Обзор-О №2	
??	<a href="#">Soyuz-2-1A/Fregat</a>	Resonance 1A, Resonance 1B	
RESONANCE is a project to study Earth's magnetosphere consisting of four similar satellites.			
??	<a href="#">Rokot / Briz KM</a>	<a href="#">Gonets</a> x 3 (No 27,28,29)	
??	<a href="#">Proton-M/Briz-M</a>	AOneSat-1	
??	<a href="#">Falcon 9</a> v1.2	Dragon v2	



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??	<a href="#">Soyuz-2-1B</a>	Arktika M 1	
Launch site: Восточный (Vostochniy), Cosmodrome, Russia			
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Arktika M	
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Arktika M 2	
??	<a href="#">Proton-M/Briz-M</a>	Ямал-601	
??	<a href="#">Proton-M/Briz-M</a>	Terrestar-2	
??	<a href="#">Proton-M/Briz-M</a>	SkyTerra 2	40
??	<a href="#">Proton-M/Briz-M</a>	EutelSat 5 West B / MEV	
??	<a href="#">Proton-M/Briz-M</a>	Elektro L - 3	
??	<a href="#">Soyuz-2-1B</a>	Lotos S1	
??	<a href="#">Soyuz-2-1B</a>	Persona	
??	<a href="#">Soyuz-2-1A</a>	Kobalt M	
??	<a href="#">Soyuz-2-1A</a>	Foton M	
??	<a href="#">Soyuz-2-1B/Fregat M</a>	Meridian	
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Smotr R №1	
??	??	Zond	
??	??	MKA PN6 (Monika)	
??	??	Картограф-ОЭ №1	
??	<a href="#">Ariane 5</a> ES	<a href="#">Galileo-FOC</a> FM19 (Tara), <a href="#">Galileo-FOC</a> FM20 (Samuel), <a href="#">Galileo-FOC</a> FM21 (Anna), <a href="#">Galileo-FOC</a> FM22 (Ellen)	
??	<a href="#">Ariane 5</a> ECA	Intelsat 37e	
??	<a href="#">Ariane 5</a> ECA	Hellas-Sat-4	
??	<a href="#">Ariane 5</a> ECA	DSN 1 (Superbird-8)	
??	<a href="#">CZ-2D</a>	SJ-12 Shijian-12 (2)	
??	<a href="#">CZ-2D</a>	TH-2 Tianhui-2	
??	<a href="#">CZ-2C</a>	CSES-1 Earthquake electromagnetism monitor satellite	
??	??	FY-3 Fengyun-3 RM-1	
??	??	VeneSat-2	20
??	<a href="#">CZ-3B/E</a>	CC-1 <a href="#">Changcheng-1</a>	
??	CZ-2D	GF-7 Gaofen-7	
??	CZ	CBERS-SAR 1	
??	CZ	Deep Space Solar Observatory	
??	CZ	CBERS-4B	
??	<a href="#">CZ-3B/E</a>	SupremeSAT-II	
??	<a href="#">CZ-3B/E</a>	CongoSat 1	
??	<a href="#">CZ-3B/E</a>	Apstar-6D	
??	??	Small Military Meteorological Satellite (x6)	
??	CZ	FY-3E Fengyun-3E	
??	CZ	FY-4B Fengyun-4B	
??	<a href="#">CZ-4B</a>	<a href="#">Haiyang-1C</a>	HY-1C
Launch site: <a href="#">Taiyuan</a> , China			
??	CZ-4B	HY-1D Haiyang-1D	
??	CZ-4B	HY-2B Haiyang-2B	





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??	<a href="#">GSLV</a> MK II	F12	GSAT-7A
??	<a href="#">GSLV</a> MK II	F10	GISAT
??	<a href="#">PSLV</a>		EnMap
??	<a href="#">Safir 1 B</a>	Tadbir	
??	Safir 3A	Pars sepher	

146

2019.

Feb??	<a href="#">CZ-3C</a>	Beidou 3 I1Q
Feb??	<a href="#">Falcon 9</a>	GPS IIIA-3
Feb??	H-2B (F9)	HTV8

Mar30. [Soyuz-2](#) 1A [Soyuz MS](#) 12  
 CDR: ??, **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??	<a href="#">CZ-3B/E</a>	Nicasat 1
Apr??	<a href="#">CZ-3C</a>	Beidou 3 I2Q

?? CZ7 TZ 3 Tianzhou 3 (Logistic Cargo Vehicle)

?? CZ-2F/G SZ-13 Shenzhou-13

May??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-19
May??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a> v1.1	USCV-3 (US Commercial Vehicles)

June30. [Soyuz-2](#) 1A Soyuz MS 13

June??	<a href="#">Atlas 5</a> 401	STP-03
June??	<a href="#">Ariane 5</a>	MTG-I1

??	<a href="#">PSLV</a>	RISAT 1A
??	<a href="#">CZ-3B/G2</a>	TECSTAR 1

July?? [CZ-3C](#) Beidou 3 I3Q

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

Sep?? [Soyuz-2-1B/Fregat-M](#) Glonass K1 / 22

?? [Falcon 9](#) FT [Dragon](#) SpX-20

Oct??	<a href="#">Atlas 5</a> 552	Dream Chaser Cargo System
Oct??	<a href="#">CZ-3B/YZ-1</a>	Beidou 3 MEO M19, Beidou 3 MEO M20

Nov29. [Soyuz-2](#) 1a / [Fregat](#) Luna 25 (Luna-Glob-1)

?? Vega Proba 3



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Dec?? [Atlas 5](#) 402 / [Falcon 9](#) v1.1 USCv-4 (US Commercial Vehicles)  
 Dec?? [CZ-3B/YZ-1](#) Beidou 3 MEO M21, Beidou 3 MEO M22

?? [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  
 ?? CZ HY-3A Haiyang-3A  
 ?? [CZ-4B](#) HY-2C Haiyang-2C

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

2020.

July?? [CZ-3C](#) Beidou 3 G2Q

Mar30. Soyuz 2-1A Sojuz MS-15

Mar?? [Delta IV-M](#) DMSP-5D3 F20



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Mar??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glonass K1 / 22
Apr??	<a href="#">CZ-3B/YZ-1</a>	Beidou 3 MEO M23, Beidou 3 MEO M24
??	CZ7	TZ 4 Tianzhou 4 (Logistic Cargo Vehicle)
??	CZ-2F/G	SZ-14 Shenzhou-14
??	<a href="#">CZ-3B/G2</a>	ZX-18 Zhongxing-18
June??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a> v1.1	USCV-5 (US Commercial Vehicles)
June??	Ariane	MTG-S1/Sentinel-4A
June??	<a href="#">CZ-3C</a>	Beidou 3 G3Q
??	<a href="#">Soyuz ST B/Fregat-MT</a>	MetOp-SG A1/EPS-SG-a/Sentinel-5A
??	<a href="#">Proton-M/Briz-M</a>	ExoMars (CM+DM)
July??	Atlas V (541)	<a href="#">Mars 2020 rover</a> 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	<a href="#">Mars probe</a> (orbiter + lander + rover)
Aug05.	<a href="#">Proton-M/Briz-M</a>	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??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glonass K2 / 15
Dec??	<a href="#">Soyuz ST B/Fregat</a> 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??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a> 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
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 14



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??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 15
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 16
??	<a href="#">Soyuz-2</a> 1a / <a href="#">Fregat</a>	<a href="#">Luna 26</a> (Luna-Resurs OA)
??	<a href="#">Proton-M/Briz-M</a>	Ekspress - 103
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Arktika M 3
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glonass K2
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	<a href="#">Resurs PM - 1</a>
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Meteor M No2-3
??	<a href="#">Angara</a> 1.2	Kompsat-6
??	<a href="#">Vega</a>	Sentinel-2C
??	<a href="#">Vega</a>	Sentinel-3C
??	??	Biomass
??	??	Seosat-Ingenio-2
??	??	EPS-SG-b
??	CZ	Recoverable Moon Probes
??	CZ	Two Meter Space Telescope
??	CZ	FY-4C Fengyun-4C
??	<a href="#">GSLV</a> MK III	MOM-2 Follow on Mars Mission
??	H-IIA	<a href="#">Hope</a> (UAE mission to Mars)
??	CZ	HY-3B Haiyang-3B
2021.		
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 17
Mar30.	<a href="#">Soyuz-2</a> -1A	Sojuz MS-17
Apr??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> M	MarcoPolo-R
May??	<a href="#">Proton-M</a> / DM-03	Spektr - UF
June??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-7 (US Commercial Vehicles)
??	CZ7	TZ 5 Tianzhou 5 (Logistic Cargo Vechile)
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 18
??	CZ-2F/G	SZ-15 Shenzhou-15
July??	Vulcan/Minotaur 6/ <a href="#">Falcon 9</a> v1.1	JPSS-2
Aug??	SLS Block I	Orion: Exploration Mission 2 (Crew to Cislunar) Mission)
Sep30.	<a href="#">Soyuz-2</a> -1A	Sojuz MS-18
Oct??	<a href="#">Atlas 5</a> 401/ <a href="#">Falcon 9</a> v1.1	JPSS Free Flyer 2 (TSIS-2)
Oct??	<a href="#">Angara</a> A5P	Federatsia (unmaned)
Dec??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-8 (US Commercial Vehicles)
??	SLS Block I	Europa Clipper
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 19



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??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Transformable Modul	TM
??	<a href="#">Soyuz-2 1b</a>	Luna 27 (Luna-Resurs PA)	Testing an adaptive landing mode with a radio-beacon; delivering a rover
??	<a href="#">Proton-M/Briz-M</a>	Ekspress – RV1, RV2	
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Resurs PM - 2	
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Meteor M No2-4	
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Meteor M No2-5	
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Meteor M No3	
??	<a href="#">Angara 1.2</a>	<a href="#">Gonets</a> x 3	
??	<a href="#">Soyuz-2-1B</a>	Obzor R -1	
??	<a href="#">Angara A5P/DM03</a>	Lutch 5 – 2	
??	??	Ямал GK 1	
??	<a href="#">Soyuz-2-1b</a>	Bion-M No. 2	
??	<a href="#">Angara A5P/DM03</a>	Enisei A-1	
??	<a href="#">Vega</a>	Sentinel-1A 2nd Gen	
??	<a href="#">Soyuz ST / Vega</a>	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.	<a href="#">Soyuz-2-1A</a>	Sojuz MS-19	
Apr??	<a href="#">Angara A5/ DM 03</a>	Elektro M – 1-2	
??	CZ7	TZ 6 Tianzhou 6 (Logistic Cargo Vehicle)	
??	CZ-2F/G	SZ-16 Shenzhou-16	
June??	<a href="#">Ariane 5ECA</a>	JUICE (JUperiter ICy moon Explorer)	
June??	<a href="#">Ariane 5</a>	MTG-I2	
June??	<a href="#">Atlas 5 402 / Falcon 9</a>	USCV-9 (US Commercial Vehicles)	
??	CZ-5B	Xuntian Lab module	Space station module
Aug??	H2B	Phobos sample return	
Sep30.	<a href="#">Soyuz-2-1A</a>	Sojuz MS-20	
Sep??	<a href="#">Soyuz ST B/Fregat-MT</a>	MetOp-SG B1	
Dec??	<a href="#">Atlas 5 402 / Falcon 9</a>	USCV-10 (US Commercial Vehicles)	





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??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 20	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 21	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 22	
??	<a href="#">Proton-M/Briz-M</a>		Ekspress – AMU 5
??	<a href="#">Proton-M/Briz-M</a>		Ekspress – AMU 6
??	<a href="#">Proton-M/Briz-M</a>		Ekspress – RV 4
??	<a href="#">Angara</a> 1.2		<a href="#">Gonets</a> x 3
??	<a href="#">Angara</a> A5P/DM03		Lutch 5 – 3
??	??		Ямал GK 2
??	<a href="#">Ariane 5</a>		Moon's south pole samples return mission
??	<a href="#">Vega</a>		Jason-CS B
??	Ariane 5		ATHENA

?? CZ HY-3C Haiyang-3C

2023.

Mar30.	<a href="#">Soyuz-2</a> -1A		Sojuz MS-21
June??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>		USCV-11 (US Commercial Vehicles)
Sep30.	<a href="#">Soyuz-2</a> -1A		Sojuz MS-22
Dec??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>		USCV-12 (US Commercial Vehicles)
??	SLS Block IA II		Orion: Exploration Mission 3 (Crew to Cislunar)
??	<a href="#">Angara</a> A5P		Federatsia (unmaned flight to ISS)
??	<a href="#">Angara</a> A5P		Federatsia (Light 14t – 2 man to ISS)
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 23	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 24	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 25	

?? A Russian [Proton/Briz-M](#) (or Angara) rocket to launch the [Laplas-P](#) mission to orbit the moon of Jupiter Ganymede.

regions of the Moon back to Earth.

??	<a href="#">Proton-M/Briz-M</a>		Ekspress – AT3, AT4
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Resurs	PM - 3
??	<a href="#">Angara</a> 1.2		<a href="#">Gonets</a> x 3
??	<a href="#">Soyuz-2</a> -1B		Obzor R -2
??	<a href="#">Soyuz-2</a> -1B		Obzor O -1
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Ellips	- 1
??	<a href="#">Angara</a> A5P/DM03		Dopler 1, 2
??	<a href="#">Vega</a>		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)



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??	<a href="#">GSLV</a> MK III	Mission to Venus
2024		
Mar30.	<a href="#">Soyuz-2</a> -1A	Sojuz MS-23
June??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-13 (US Commercial Vehicles)
Sep30.	<a href="#">Soyuz-2</a> -1A	Sojuz MS-24
Oct??	EELV	GOES-U
??	SLS Block IA II	Orion: Exploration Mission 4 (Crew to Cislunar)
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 26
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 27
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 28
??	<a href="#">Soyuz-2</a> 1b	Luna28 (Luna-Grunt-1) delivering a new-generation rover for gathering, analysis and uploading of samples
??	<a href="#">Proton-M/Briz-M</a>	Ekspress – AMU 9
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Resurs PM - 4
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Meteor MP No1
??	<a href="#">Angara</a> 1.2	<a href="#">Gonets</a> x 2, Gonets M
??	<a href="#">Angara</a> A5P/DM03	Lutch 5 – 4
??	??	Ямал GK 3
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Arktika M 4
??	<a href="#">Angara</a> 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)
??	<a href="#">Soyuz-2</a> -1A	Sojuz MS-25
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 29
??	<a href="#">Angara</a> 1.2	<a href="#">Gonets</a> x 3
??	<a href="#">Soyuz-2</a> -1B	Obzor O -2
??	<a href="#">Soyuz-2</a> -1b	Bion-M No. 3
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Arktika M 5
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Ellips - 2
??	<a href="#">Angara</a> A5P/KVTK	Enisei A-2
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Resonans 2A, 2B, MKA-PN5
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Smotr R №2
??	CZ	Chang'e-7 (Moon south pole landing)



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2026.

June??      [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)