



## Blog Gorana Hudeca

### Predstojeća lansiranja u Svemir (12.12.2016.)

2016.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in **red**. Last change **12.Dec.2016**.

Dec12. 1220UTC [Pegasus-XL](#) / L-1011 Stargazer [CYGNSS](#) (x8)  
Launch site: [Cape Canaveral](#), USA

Dec18. 1827UTC [Atlas 5](#) 431 (AV071) [JUPITER 2/EchoStar XIX](#)  
Launch site: [Cape Canaveral](#), USA

Dec19. [CZ-2D](#) [TanSat](#) (CarbonSat)  
Launch site: [Jiuquan](#), China

Dec20. 1100UTC [Epsilon 2](#) (Jap) [ERG](#) (Energization and Radiation in Geospace)  
Launch site: [Uchinoura Space Center](#), Japan

Dec20. 2030UTC [Ariane 5](#) ECA (VA234) [JCSat 15](#) / [Star One D1](#)  
Launch site: [Kourou](#), French Guiana

Dec26. [CZ-2D](#) [GJ - 1 GaoJing - 1](#) / [GJ - 2 GaoJing - 2](#)  
Launch site: [Jiuquan??](#), China

Dec28. [Proton-M/Briz-M](#) [EchoStar 21](#)  
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

Dec?? [KZ-1A](#) JL - 2 [Jilin](#) - 2  
Dec?? [CZ-3B/G2](#) [TXJSSY-2](#)

77 + (9)

2017.

Jan08. 0430UTC [Falcon 9](#) FT [Echostar 23](#)  
Launch site: [Cape Canaveral](#), USA

Jan11. 2220UTC [SS-520-4](#) [TRICOM-1](#)  
Launch site: [Uchinoura Space Center](#), Japan

Jan20. 0045UTC [Atlas 5](#) 401 (AV066) [SBIRS-GEO 3](#)  
Launch site: [Cape Canaveral](#), USA

Jan22. [Falcon 9](#) FT [Dragon](#) SpX-10  
Launch site: [Cape Canaveral](#), USA

Jan24. 0744UTC [H-2A](#) (F32) [DSN-2](#) (Kirameki 2)  
Launch site: [Tanegashima](#), Japan

Jan26. [Atlas 5](#) 401 (AV068) NROL-79  
Launch site: [Vandenberg](#), USA

Jan28. 0103UTC [Soyuz ST](#) B/Fregat-MT (VS16) Hispasat AG1 (36W-1)



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??Jan28. [Soyuz-2](#) 1A / [Fregat](#) M Kanopus V I K

Jan?? [Falcon 9](#) [Iridium Next](#) Flight 1 (x10)

Launch site: [Vandenberg](#), USA

Jan?? [Rokot / Briz KM](#) [Gonets](#) x 3 (No 24,25,26), Blits-M

Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

Jan?? [PSLV](#) XL C37 Cartosat-2D

?? [Proton-M/Briz-M](#) [Blagovest \(14Ф149\)](#)

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

?? Minotaur-C XL SkySat 8/9/10/11/12

??Feb02. [Soyuz U](#) [Progress MS](#) 5

Feb14. [Ariane 5](#) ECA (VA235) Intelsat 32e (SkyBrasil – 1) / Telkom 3S 140

Feb?? [Simorgh](#) [Dosti](#)

Launch site: [Semnan](#), Iran

?? [Soyuz-2-1V](#) Kosmos 14F150 (geodesy??)

Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

?? [Soyuz-2-1B/ Fregat](#) [Tundra 2](#)

Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

?? [Soyuz-2-1B/Fregat-M](#) [Glonass-M/](#) 56

?? [H-2A](#) IGS Radar 5

?? [Soyuz-2-1V](#) / Volga Гонец-M1

?? [Falcon 9](#) FT SES-10

?? [Soyuz-2-1B](#) Pion

?? [Soyuz-2-1B](#) Labirint 11

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

?? [Proton-M/Briz-M](#) Kosmos

?? [Soyuz-2-1B/Fregat-M](#) Meteor M-2-1, two MKA N, Ionosfera 1, Ionosfera 2

???? [Dnepr](#) 2 x [Iridium Next](#)

Launch site: ([Dombrovskiy](#)), Russia

Mar07. [Vega](#) (VV09) Sentinel 2B

Mar09.000UTC [Delta IV](#)-M+ (5,4) WGS 9

Mar17. 0200UTC [Atlas 5](#)401 [Cygnus](#) Orb-7

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

Mar21. [Ariane 5](#) ECA SGDC 1

Mar27. [Soyuz-2](#) 1A [Soyuz MS](#) 4 (S51/52)

CDR: Fyodor Yurichkhin, Jack D. Fischer

Mar31.CZ-?? [CAS-4A](#), [CAS-4B](#)



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Mar??	<a href="#">GSLV</a> MK III	D1	GSAT-19E	120
Launch site: <a href="#">Satish Dhawan Space Centre</a> , Sriharikota, India				
Mar??	<a href="#">Falcon 9</a>		NROL 76	
Mar??	<a href="#">CZ-3B/G2</a>		ZX-16 Zhongxing-16 (DFH-4E bus)	
Mar??	<a href="#">GSLV</a> MK II	F09	GSAT-9	
Mar??	<a href="#">Falcon 9</a>		<a href="#">Dragon</a> SpX-11 (CRS11)	
Mar??	<a href="#">Proton-M/Briz-M</a>		Hispasat 1f	
??	<a href="#">CZ-4B</a>		SJ-13 Shijian-13A; Shijian-13B	GEO satellite with electric propulsion system based on DFH-3B bus
??	<a href="#">CZ-4C</a>		Hede-1	
??	<a href="#">CZ-4B</a>		HY-1C Haiyang-1C	
????	<a href="#">Falcon 9</a> FT		KoreaSat 5A	
??	<a href="#">Falcon 9</a> FT		<a href="#">Iridium Next</a> Flight 2 (x10)	
??	<a href="#">CZ-4B</a>		FY-3D Feng Yun-3D	
Apr23.	1000UTC	<a href="#">PSLV</a>	C38	EMI SAT / SPADEX
Apr??	CZ7		TZ 1 Tianzhou 1 (Logistic Cargo Vehicle)	
Launch site: <a href="#">Wenchang</a> , China				
Apr??	<a href="#">Rokot / Briz KM</a>		Sentinel 2B	
Apr??	<a href="#">Ariane 5</a>		ViaSat-2	
??	<a href="#">Ariane 5</a> ECA		GSAT-17	
??	<a href="#">Ariane 5</a> ECA		Al Yah 3	
??	<a href="#">Ariane 5</a> ECA		Koreasat-7 (Mugungwa 7)	
??	<a href="#">Ariane 5</a>		Hylas 4	
May04.	<a href="#">Atlas 5</a> (531) (AV072)		AEHF-4	100
May28.	<a href="#">Soyuz-2</a> 1A	<a href="#">Soyuz MS</a> 5 (S52/53)		
CDR: Сергей Николаевич <b>РЯЗАНСКИЙ</b> (Sergei N. Ryazansky), Paolo Nespoli (ESA), Randolph J. Bresnik				
??	<a href="#">Dnepr</a>		??	
??	Minotaur-4/Orion 38		ORS-5: SensorSat	
June01.	<a href="#">Falcon 9</a> FT		<a href="#">Dragon</a> SpX-12	
June13.	<a href="#">Atlas 5</a> 541		NROL-42 Trumpet Follow On 2	
June14.	<a href="#">Soyuz-2</a> 1A		<a href="#">Progress MS</a> 6	
June15.	Pegasus-XL		ICON (Helio EX-1)	
June??	<a href="#">CZ-3B/E</a>		Alcomsat-1	
June??	<a href="#">Antares</a> 230		<a href="#">Cygnus</a> Orb-8	
June??	LS-1		LandSpace-1	
June??	<a href="#">Rokot / Briz KM</a>		Sentinel-5 Precursor	
??	<a href="#">CZ-2D</a>		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.				



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Launch site: [Jiuquan](#), China

??	<a href="#">Falcon 9</a> FT	PSN VI	
??	Falcon H	Demo Flight	
??	<a href="#">Falcon 9</a> FT	BulgariaSat	
??	<a href="#">Falcon 9</a> FT	SES-11 /EchoStar 105	
??	CZ-5	SJ-18	
??	<a href="#">Proton-M/Briz-M</a>	AsiaSat-9	
??	<a href="#">Falcon 9</a> FT	<a href="#">Iridium Next</a> Flight 3 (x10)	
July??	Zenit 3-SLB / DM-SLB	AngoSat	80
??	<a href="#">Ariane 5</a>	Eutelsat 172B	
??	<a href="#">Ariane 5</a>	SES 15	
??	<a href="#">Proton-M/ DM 3</a>	Electro-L N3	
??	<a href="#">Proton-M/Briz-M</a>	EuropaSat 3	
??	<a href="#">Dnepr</a>	Yaliny x 2	
??	<a href="#">Atlas 5</a> 551	AFSPC-11	
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Meteor M-2-2, Ionosfera 3, Ionosfera 4	
??	<a href="#">Ariane 5</a> ECA	EDRS-C (Hylas 3)	
??	<a href="#">Ariane 5</a> ECA	GSAT-11	
Aug31.	<a href="#">Atlas 5</a> 421	NROL-52	
Aug??	<a href="#">Ariane 5</a> ES (Alexandre), <a href="#">Galileo-FOC</a> FM18 (Irina)	<a href="#">Galileo-FOC</a> FM15 (Nicole), <a href="#">Galileo-FOC</a> FM16 (Zofia), <a href="#">Galileo-FOC</a> FM17	
Aug??	<a href="#">Atlas 5</a> 401	TDRS-M	
Aug??	<a href="#">Vega</a> (VV10) Venüs,	OPTSAT 3000	
??	Epsilon (Jap)	ASNARO 2	
Sep12.	<a href="#">Soyuz-2</a> 1A <a href="#">Soyuz MS</a> 6 (S53/54)		
CDR: Александр Александрович <b>МИСУРКИН</b> (Aleksandr A. Misurkin), Mark T. Vande Hei			
Sep13.	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-13	
Sep??	<a href="#">CZ-2D</a>	VRSS-2 (Bolivia Remote Sensing Satellite)	
Sep??	<a href="#">CZ-3B/G2</a>	ZX-6C Zhongxing-6C	
??	<a href="#">Falcon 9</a> FT	Es'hail 2	
??	??	HY-3A Haiyang-3A	60
??	<a href="#">Falcon 9</a> FT	<a href="#">Iridium Next</a> Flight 4 (x10)	
??	<a href="#">Falcon 9</a> FT	SES-16	
Oct12.	<a href="#">Soyuz-2</a> 1A	<a href="#">Progress MS</a> 7	
Oct??	<a href="#">Soyuz ST</a> B/Fregat-M	MetOp-C	
Oct??	<a href="#">Atlas 5</a> 401	SBIRS-GEO 4	
Oct??	<a href="#">Falcon 9</a> FT	SAOCAM 1A	
Oct??	Delta II 7920-10C	<a href="#">JPSS-1</a>	
Nov10.	Delta II 7320-10C	ICESat-II	
Nov17.	<a href="#">Antares</a> 230	<a href="#">Cygnus</a> Orb-9	



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Nov30.	<a href="#">Soyuz-2 1A</a> <a href="#">Soyuz MS 7</a> (S54/55)		
CDR: Александр Александрович <b>Скворцов</b> (Alexander Skvortsov), Norishige Kanai, Scott Tingle			
Nov??	<a href="#">Vega</a> (VV11) Aeolus		
??	<a href="#">Falcon 9</a> FT	SES-14 / GOLD	
Dec02.	<a href="#">Atlas 5</a> 402 / Falcon 9 v1.1 USCV-1 (US Commercial Vehicles)		
Dec07.	<a href="#">Atlas 5</a> 551	AFSPC-7	
Dec??	Soyuz / Vega	CSO 1	
Dec??	<a href="#">Soyuz-2-1B/Fregat</a>	Glonass K2 / 13	
Dec??	<a href="#">PSLV</a>	Cartosat-2E	
Dec??	<a href="#">CZ-2D</a>	GJ-3 GaoJing-3	
Dec??	<a href="#">Falcon 9</a> FT	TESS	
Dec??	<a href="#">Falcon 9</a> FT	Grace-FO	40
Dec??	<a href="#">PSLV</a>	Team Indus	
??	<a href="#">Falcon 9</a>	Dragon v2 unmanned test	
??	<a href="#">Falcon 9</a> FT	<a href="#">Iridium Next</a> Flight 5 (x10)	
??	<a href="#">Atlas 5</a> 401	GeoEye - 2	
??	<a href="#">Atlas 5</a>	<a href="#">Solar Orbiter</a> (SolO) (ESA)	
??	CZ-4B	HY-1D Haiyang-1D	
??	CZ-4B	HY-2B Haiyang-2B	
??	<a href="#">Dnepr</a>	<a href="#">PAZ</a>	
Launch site: ( <a href="#">Dombrovskiy</a> ), Russia			
??	<a href="#">Soyuz-2 1A</a> / Fregat	Kanopus V 3, Kanopus V 4	
??	<a href="#">Angara 1.2</a>	Kosmos	
??	<a href="#">Soyuz-2-1V</a> / Volga	Geo IK 2	
??	<a href="#">Soyuz-2-1B</a>	Persona - 3	
??	<a href="#">Angara A5/ DM03</a>	Kosmos	
??	<a href="#">Zenit 3 SL</a> /Fregat-SB	Lybid'	
??	<a href="#">Proton-M/ DM-03</a>	<a href="#">Glonass-M/</a> ??	
??	<a href="#">Vega</a>	OpSis	
??	<a href="#">Vega</a>	VNREDSat	
??	<a href="#">Vega</a>	LOTUSat	
??	<a href="#">Vega</a>	Prisma	
??	<a href="#">Ariane 5</a> ECA	BSat 4a	20
??	<a href="#">Ariane 5</a> ECA	SES 12	
??	<a href="#">Ariane 5</a> ECA	Azerspace 2 (Intelsat 38)	
??	<a href="#">Ariane 5</a> ECA	Inmarsat 5 F4	
??	<a href="#">Soyuz ST</a> B/Fregat-MT (VS17) OneWeb smalsat (x10)		
??	CZ-2F/G	SZ-12 Shenzhou-12	
??	CZ-5	Chang'e-5 (Sample return)	
??	<a href="#">CZ-2C</a>	ZH-1 Zengheng 1 (ESEM experimental satellite on Electromagnetism Monitoring)	



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??	<a href="#">CZ-3A</a>	FY-2H Fengyun-2H
??	<a href="#">CZ-2D</a>	GF-5 Gaofen-5
??	CZ	SVOM (Space-based multi-band astronomical Variable Objects Monitor)
??	<a href="#">CZ-2D</a>	GF-6 Gaofen-6
??	CZ-2	CAS-2A1, CAS-2A2
??	??	YG-32 Yaogan Weixing 31
??	??	YG-32 Yaogan Weixing 32
??	CZ?	Orbita-1 1

??	<a href="#">GSLV</a> MK II	F11 GSAT-6A
??	<a href="#">GSLV</a> MK II	F10 GISAT

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

??	<a href="#">Safir 1 B</a>	Tadbir
??	Safir 3A	Pars sepher

(25)  
(153)

2018.

Jan??	<a href="#">Vega</a>	Seosat (Ingenio)
Jan??	<a href="#">Antares</a> 230	<a href="#">Cygnus</a> Orb-10
??	<a href="#">Falcon 9</a>	Dragon v2 manned test

Feb??	<a href="#">Soyuz-2-1B/Fregat</a> -M	Glonass K2
Feb??	<a href="#">Vega</a>	CHEOPS
Feb??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-14
Feb??	<a href="#">Soyuz-2</a> 1A	<a href="#">Progress MS</a> 8

Mar15. [CZ-3B/GII](#) 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??	<a href="#">PSLV</a>	Cartosat-3
Mar??	<a href="#">Atlas 5</a> (541)	GOES-S

??	<a href="#">Soyuz ST</a> / <a href="#">Vega</a>	Merlin
??	<a href="#">Soyuz-2-1B/ Fregat</a> -M	Glonass M

??	CZ7	TZ 2 Tianzhou 2 (Logistic Cargo Vehicle)
??	<a href="#">Falcon 9</a> FT	<a href="#">Iridium Next</a> Flight 6 (x10)
??	<a href="#">Delta IV</a> -M+(4,2)	GPS III-1

Apr17. [Ariane 5](#) [BepiColombo](#) ESA and ISAS Mercury Orbiters

Apr??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-15
Apr??	<a href="#">Soyuz-2</a> 1A	<a href="#">Progress MS</a> 9



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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>Самокутјев</b> (Aleksander M. Samokutyev), Jeanette J. Epps, Alexander Gerst	
May??	<a href="#">Falcon 9</a>	GPS IIIA-2
May??	Falcon Heavy	Red Dragon
May??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a>	Solar Orbiter
??	CZ-2F/G	SZ-12 Shenzhou-12
??	<a href="#">Falcon 9</a> FT	<a href="#">Iridium Next</a> Flight 7 (x10)
June01.	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a> 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??	<a href="#">Atlas 5</a> 422	CST-100 Starliner (unmanned test)
??	<a href="#">Proton-M</a>	PTK NP
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Glonass K1 / 15
??	CZ-5	Space Station Core Module
??	<a href="#">Proton-M</a>	MLM
July01.	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 10
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)
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), NASA probably Aunon	
Sep??	<a href="#">Proton-M</a> rocket to launch Spektr-Rentgen-Gamma X-Ray observatory from Baikonur. 1900 kg Spectr-RG is a joint Russian-German X-ray observatory carrying two telescopes developed and produced by German and Russian partners. The primary instrument is German eRosita, complemented by Russian ART-XC. Main tasks of the project are studies of the sky in X-ray energy range, which can provide clues for the mystery of dark energy.	
Oct16.	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 11
Oct??	<a href="#">Ariane 5</a> ES	JWST (James Webb Space Telescope)
Oct??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-17
??	<a href="#">Proton-M</a> / DM-03	<a href="#">Glonass-M</a> /K16,K17,K18
Nov30.	<a href="#">Soyuz-2</a> 1A <a href="#">Soyuz MS</a> 11 (S58/59)	
	CDR: <b>Кононенко</b> (Kononenko), NASA, David Saint-Jaques (Can)	
Nov??	Vega	Proba 3
Nov??	SLS-1	Orion (unmanned trip around the Moon) Exploration Mission 1 (Distant Retrograde Orbit (DRO) Tactical DRM



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Dec03. [Atlas 5](#) 402 / Falcon 9 v1.1 USCV-3 (US Commercial Vehicles)

Dec?? [GSLV](#) Mk II D9 Chandrayaan 2  
 India's second mission to the moon called Chandrayaan - II is likely to be launched by GSLV MkII. The project will include a robotic vehicle that will move around on after achieving a soft landing on the moon surface in the polar region

Dec?? [Ariane 5](#) MTG-I1  
 Dec?? [CZ-3B/GIII](#) Chang'e-4 (Moon far side Aitken Basin lander/rover)  
 Dec?? [Falcon 9](#) FT [Dragon](#) SpX-18

?? [Soyuz-2-1B/Fregat-M](#) Glonass K2 / 14  
 ?? [Ariane 5](#) Heinrich Hertz

?? [Falcon 9](#) v1.2 Radarsat Constellation Mission (x3)  
 ?? [Falcon 9](#) v1.2 OHB SARah satellite (x2)  
 ?? [Falcon 9](#) v1.2 WGS 10  
 ?? Minotaur-4 FORMOSAT-7 (6 sat)  
 ?? ?? Landsat 9  
 ?? ?? AEHF 5

?? [Soyuz-2](#) 1B Progress M-UM  
 ?? [Proton-M](#) HЭM-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.

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

?? [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





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??	<a href="#">Soyuz-2-1B/Fregat</a> M	Meridian
??	<a href="#">Soyuz-2-1B/Fregat</a> -M	Smotr R №1
??	??	Zond
??	??	MKA PN6 (Monika)
??	??ЗЕНИТ-3SLБФ/ <a href="#">Fregat</a> -СБ	Электро-М №1
??	??	Картограф-ОЭ №1
??	<a href="#">Vega</a>	Jason-CS A
??	<a href="#">Vega</a>	EarthCare
??	<a href="#">Vega</a>	CSO 1
??	<a href="#">Vega</a>	Cosmo-SkyMed Secon Gen 1)
??	<a href="#">Vega</a>	Sentinel 3B
??	<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	Jabiru 2
??	<a href="#">Ariane 5</a>	Arsat 3
??	<a href="#">Ariane 5</a> ECA	Jabiru-1
??	<a href="#">Ariane 5</a> ECA	Intelsat 37e
??	<a href="#">Ariane 5</a> ECA	DSN 1 (Superbird-8)
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a>	MetOp-C
??	<a href="#">Soyuz ST</a>	TARANIS
??	CZ	HY-3B Haiyang-3B
??	<a href="#">CZ-3B/E</a>	<a href="#">Compass</a> -M6; <a href="#">Compass</a> -M7
??	<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
??	<a href="#">CZ-4B</a>	HY-2C Haiyang-2C
??	<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="#">PSLV</a> C37	RISAT 1A
??	<a href="#">GSLV</a> MK III	D2 GSAT-20
??	<a href="#">GSLV</a> MK II	F12 GSAT-7A
??	<a href="#">PSLV</a>	EnMap



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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

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

Nov?? [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



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?? 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

?? [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).



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??	??	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
??	<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)
2021.		
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
??	CZ7	TZ 5 Tianzhou 5 (Logistic Cargo Vechile)
??	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)



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??	SLS Block I	Europa Clipper
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 17
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 18
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 19
??	<a href="#">Soyuz-2</a> 1b	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</a> 1.2	<a href="#">Gonets</a> x 3
??	<a href="#">Soyuz-2-1B</a>	Obzor R -1
??	<a href="#">Angara</a> A5P/DM03	Lutch 5 – 2
??	??	Ямал GK 1
??	<a href="#">Soyuz-2-1b</a>	Bion-M No. 2
??	<a href="#">Angara</a> A5P/DM03	Enisei A-1
??	<a href="#">Vega</a>	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.	<a href="#">Soyuz-2-1A</a>	Sojuz MS-19
Apr??	<a href="#">Angara</a> A5/ DM 03	Elektro M – 1-2
??	CZ7	TZ 6 Tianzhou 6 (Logistic Cargo Vechile)
??	CZ-2F/G	SZ-16 Shenzhou-16
June??	<a href="#">Ariane</a> 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.	<a href="#">Soyuz-2-1A</a>	Sojuz MS-20
Sep??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	MetOp-SG B1



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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	
Sep30.	<a href="#">Soyuz-2</a> -1A	Sojuz MS-22	
??	SLS Block IA II	Orion: Exploration Mission 3 (Crew to Cislunar)	
??	<a href="#">Angara</a> A5P	Federatsia (unmanned 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 <a href="#">Proton/Briz-M</a> (or Angara) rocket to launch the <a href="#">Laplas-P</a> mission to orbit the moon of Jupiter Ganymede.		
??	Russia to launch a <a href="#">Luna-Grunt mission</a> (Luna-29) to return lunar soil samples from the polar 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)	
??	<a href="#">GSLV</a> MK III	Mission to Venus	



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2024

Mar30.	<a href="#">Soyuz-2</a> -1A	Sojuz MS-23
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
??	<a href="#">Proton-M</a> / DM-03	Elektro L - 5
??	??	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)

2026.

Dec17.	<a href="#">Angara</a> A5P/KVTK	A mission to Venus (Venera D) would be launched
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??	CZ	Jupiter Orbiter
??	CZ	Mars Sample Return
??	CZ	Chang'e-8 (Moon north pole landing)