



## Blog Gorana Hudeca

### Predstojeća lansiranja u Svemir (23.01.2017.)

2017.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in **red**. Last change **23.Jan2017**.

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

Jan28. 0103UTC [Soyuz ST B/Fregat](#)-MT (VS16) [Hispasat AG1](#) (36W-1)  
Launch site: [Kourou](#), French Guiana

Jan30. 0500UTC [Falcon 9](#) FT [Echostar 23](#)  
Launch site: [Cape Canaveral](#), USA

Feb08. **0259UTC** [PSLV](#) XL C37 [Cartosat-2D](#)  
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

Feb08. 1855UTC [Falcon 9](#) 032 [Dragon](#) SpX-10  
Launch site: [Cape Canaveral](#), USA

**Feb09. 0100UTC** [Atlas 5](#) 401 (AV068) [NROL-79](#) Intruder 12A (NOSS 3-8A) Intruder 12B (NOSS 3-8B)  
Launch site: [Vandenberg](#), USA

Feb12. [Proton-M/Briz-M](#) [EchoStar 21](#)  
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

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

Feb21. [Soyuz U](#) [Progress MS 5](#)  
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan **150**

**Feb22.** [Falcon 9](#) FT SES-10  
**Launch site: [Cape Canaveral](#), USA**

?? [Soyuz-2-1V](#) Kosmos 14F150 (geodesy??)  
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

?? [Soyuz-2-1B/Fregat](#) [Tundra 2](#)  
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

?? [H-2A](#) IGS Radar 5  
?? [Soyuz-2-1V](#) / Volga Гонец-M1  
?? [Soyuz-2-1B/Fregat](#)-M [Glonass-M](#) / 56

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

Mar08. 2335UTC [Delta IV](#)-M+ (5,4) WGS 9

Mar16. 0429UTC [Atlas 5](#) 401 [Cygnus](#) Orb-7 (CRS-7) **140**  
Launch site: [Cape Canaveral](#), USA



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

Mar31. CZ-?? CAS-4A, CAS-4B

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

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

Mar?? [Falcon 9](#) NROL 76  
Mar?? [Proton-M/Briz-M](#) Hispasat 1f  
Mar?? [Falcon 9](#) [Dragon](#) SpX-11 (CRS11)

?? [Proton-M/Briz-M](#) [Blagovest \(14Φ149\)](#)  
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan  
?? [Simorgh](#) [Dosti](#)

Launch site: [Semnan](#), Iran  
?? [CZ-4B](#) SJ-13 Shijian-13A; Shijian-13B GEO satellite with electric propulsion system

based on DFH-3B bus  
?? [CZ-4C](#) Hede-1 130  
?? [CZ-4B](#) HY-1C Haiyang-1C  
?? [Falcon 9](#) FT KoreaSat 5A

?? [Soyuz-2-1B](#) Pion  
?? [Soyuz-2-1B](#) Labirint 11  
?? [Proton-M/Briz-M](#) Kosmos  
?? [Soyuz-2-1B/Fregat-M](#) Meteor M-2-1, two MKA N, Ionosfera 1, Ionosfera 2

Apr04. [Soyuz ST](#) B/[Fregat](#)-MT (VS17) SES 15

Apr22. [Soyuz-2](#) 1A [Soyuz MS](#) 4 (S51/52)  
CDR: Fyodor Yurichkhin, Jack D. Fischer

Apr23. 1000UTC [PSLV](#) C38 EMI SAT / SPADEX

Apr?? CZ7 TZ 1 Tianzhou 1 (Logistic Cargo Vehicle)  
Launch site: [Wenchang](#), China 120

Apr?? [Ariane 5](#) ViaSat-2  
Apr?? [Falcon 9](#) FT [Iridium Next](#) Flight 2 (x10)

?? [Ariane 5](#) ECA GSAT-17  
?? [Ariane 5](#) ECA Al Yah 3  
?? [Soyuz-2-1B/Fregat-M](#) [Glonass-M/](#) 52

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

June01. [Falcon 9](#) FT [Dragon](#) SpX-12

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

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

June15. Pegasus-XL ICON (Helio EX-1) 110



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June22.	<a href="#">Atlas 5</a> (531) (AV072)	AEHF-4	
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	
June??	CZ	Tianyi	
??	<a href="#">Soyuz-2</a> 1A / <a href="#">Fregat</a> M <a href="#">Kanopus V</a> IK		
Launch site: Байконур ( <a href="#">Baikonur</a> ) Cosmodrome, Kazakhstan			
??	Falcon H	Demo Flight	
??	<a href="#">Falcon 9</a> FT	BulgariaSat	
??	<a href="#">Falcon 9</a> FT	SES-11 /EchoStar 105	100
??	CZ-5	SJ-18 (DFH5 bus)	
??	<a href="#">Proton-M/Briz-M</a>	AsiaSat-9	
??	<a href="#">Falcon 9</a> FT	Inmarsat 5 F4	
??	<a href="#">Falcon 9</a> FT	<a href="#">Iridium Next</a> Flight 3 (x10)	
??	<a href="#">Falcon 9</a> FT	Intelsat 35e	
July15.	Zenit 3-SLB / DM-SLB	AngoSat	
July16.	<a href="#">CZ-2C</a>	ZH-1 Zengheng 1 (ESEM experimental satellite on Electromagnetism Monitoring)	
July28.	<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			
July??	Minotaur-4/Orion 38	ORS-5: SensorSat	
July??	<a href="#">GSLV</a> MK II F11	GSAT-6A	90
July??	<a href="#">CZ-3B/YZ-1</a>	<a href="#">Beidou 3</a> , <a href="#">Beidou 3</a>	
??	<a href="#">Ariane 5</a>	Eutelsat 172B	
??	<a href="#">Proton-M/</a> DM 3	Electro-L N3	
??	<a href="#">Proton-M/Briz-M</a>	EuropaSat 3	
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Meteor M-2-2, Ionosfera 3, Ionosfera 4	
??	<a href="#">Ariane 5</a> ECA	GSAT-11	
Aug03.	<a href="#">Atlas 5</a> 401	TDRS-M	
Aug31.	<a href="#">Atlas 5</a> 421	NROL-52	
Aug??	<a href="#">Vega</a> (VV10) Venµs,	OPTSAT 3000	
Aug??	<a href="#">Falcon 9</a> FT	<a href="#">Iridium Next</a> Flight 4 (x10)	80
??	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	
Sep??	<a href="#">Soyuz-2</a> 1A / Fregat	Kanopus V 3, Kanopus V 4	



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??	<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	Es'hail 2	
??	CZ	HY-3A Haiyang-3A	
??	<a href="#">Falcon 9</a> FT	SES-16	70
??	Falcon Heavy	STP-02	
??	<a href="#">Falcon 9</a> FT	ORS-6	
??	<a href="#">Soyuz-2-1V</a> /Volga	Geo IK 2	
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>	
Oct??	<a href="#">Falcon 9</a> FT	<a href="#">Iridium Next</a> Flight 5 (x10)	
Oct??	<a href="#">Ariane 5</a>	Hylas 4	60
Oct??	CZ	Ministar-1	
Oct??	<a href="#">Ariane 5</a> ECA	EDRS-C (Hylas 3)	
Nov10.	Delta II 7320-10C	ICESat-II	
Nov17.	<a href="#">Antares</a> 230	<a href="#">Cygnus</a> Orb-9	
Nov30.	<a href="#">Soyuz-2</a> 1A	<a href="#">Soyuz MS</a> 7 (S54/55)	
CDR: Александр Александрович <b>Скворцов</b> (Alexander Skvortsov), Norishige Kanai, Scott Tingle			
Nov??	<a href="#">Vega</a> (VV11) Aeolus		
Nov??	<a href="#">Falcon 9</a>	Dragon v2 unmanned test	
Nov??	<a href="#">Rokot / Briz KM</a>	Sentinel 3B	
??	<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	50
Dec02.	<a href="#">Atlas 5</a> 402 / Falcon 9 v1.1	USCV-1 (US Commercial Vehicles)	
Dec16.	<a href="#">Falcon 9</a> FT	Bangabandhu-1	
Dec??	Soyuz / Vega	CSO 1	
Dec??	<a href="#">PSLV</a>	Cartosat-2E	
Dec??	<a href="#">CZ-2D</a>	GJ-3 GaoJing-3, GJ-4 GaoJing-4	
Dec??	<a href="#">Falcon 9</a> FT	TESS	
Dec??	<a href="#">Falcon 9</a> FT	Grace-FO	
Dec??	<a href="#">PSLV</a>	Team Indus	
Dec??	<a href="#">Falcon 9</a> FT	<a href="#">Iridium Next</a> Flight 6 (x10)	
Dec??	CZ-5	Chang'e-5 (Sample return)	40
??	<a href="#">Falcon 9</a> FT	PSN VI	
??	<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	



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??	CZ-4B	HY-2B Haiyang-2B	
??	<a href="#">Angara 1.2</a>	Kosmos	
??	<a href="#">Soyuz-2-1B</a>	Persona – 3	
??	<a href="#">Angara A5/ DM03</a>	Kosmos	
??	<a href="#">Zenit 3 SL /Fregat-SB</a>	Lybid'	
??	<a href="#">Proton-M/ DM-03</a>	<a href="#">Glonass-M/</a>	??
??	<a href="#">Soyuz-2-1B/Fregat</a>	Glonass K2 / 13	30
??	<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	
??	<a href="#">Ariane 5</a> ECA	SES 12	
??	<a href="#">Ariane 5</a> ECA	Azerspace 2 (Intelsat 38)	
??	<a href="#">Soyuz ST B/Fregat-MT (VS17) OneWeb smalsat (x10)</a>		
??	CZ-2F/G	SZ-12 Shenzhou-12	20
??	<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.			
Launch site: <a href="#">Jiuquan</a> , China			
??	<a href="#">CZ-3B/G2</a>	ZX-16 Zhongxing-16 (DFH-4E bus)	
??	<a href="#">CZ-3A</a>	FY-2H Fengyun-2H	
??	<a href="#">CZ-2D</a>	GF-5 Gaofen-5	
??	<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	
??	<a href="#">CZ-4B</a>	HY-1D Haiyang-1D	10
??	<a href="#">CZ-4B</a>	HY-2B Haiyang-2B	
??	<a href="#">CZ-4B</a>	FY-3D Feng Yun-3D	
??	<a href="#">CZ-2D</a>	SaudiSAT 5B	
??	<a href="#">CZ-2D</a>	JL-3 Jilin-3	
??	??	LJ-1 Luojia-1	
??	<a href="#">CZ-3B/YZ-1</a>	Beidou 3, Beidou 3	
??	<a href="#">CZ-3B/YZ-1</a>	Beidou 3, Beidou 3	
??	Tronador II/VEX5	TBD (suborbital)	
Launch site: Puerto Belgrano, Argentina			
??	<a href="#">Safir 1 B</a>	Tadbir	
??	Safir 3A	Pars sepher	





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1 + (24)  
5 + (158)

2018.

Jan?? [Vega](#) Seosat (Ingenio)  
Jan?? [Antares](#) 230 [Cygnus](#) Orb-10

Feb?? [Soyuz-2-1B/Fregat](#) -M Glonass K2  
Feb?? [Vega](#) CHEOPS  
Feb?? [Falcon 9](#) FT [Dragon](#) SpX-14  
Feb?? [Soyuz-2](#) 1A [Progress MS](#) 8  
Feb?? [Falcon 9](#) FT [Iridium Next](#) Flight 7 (x10)

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

Mar30. [Soyuz-2](#) 1A [Soyuz MS](#) 8 (S55/56)  
CDR: Сергей **Прокопьев** (Sergei V. Prokopyev), Олег Германович **Артемьев** (Oleg G. Artmyev), Andrew Feustel

Mar?? [PSLV](#) Cartosat-3  
Mar?? [Atlas 5](#) (541) GOES-S  
Mar?? [Atlas 5](#) 551 AFSPC-11

?? [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?? Falcon Heavy Red Dragon  
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)

?? [Proton-M](#) PTK NP  
?? [Soyuz-2-1B/ Fregat](#)-M Glonass K1 / 15

?? CZ-5 Space Station Core Module  
?? [Proton-M](#) MLM



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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 B</a> / <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)
Sept30.	<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		
Sept??	<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
Oct??	<a href="#">Ariane 5</a>	<a href="#">BepiColombo</a> ESA and ISAS Mercury Orbiters
??	<a href="#">Proton-M</a> / DM-03	<a href="#">Glonass-M</a> /K16,K17,K18
??	<a href="#">GSLV</a> MK II	F10 GISAT
Nov30.	<a href="#">Soyuz-2</a> 1A	Soyuz MS 11 (S58/59)
CDR: <b>Кононенко</b> (Kononenko), NASA, 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.	<a href="#">Atlas 5</a>	402 / Falcon 9 v1.1 USCV-3 (US Commercial Vehicles)
Dec??	<a href="#">GSLV</a> 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??	<a href="#">Ariane 5</a>	MTG-I1
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
??	<a href="#">Soyuz-2-1B</a> / <a href="#">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
??	Minotaur-4	FORMOSAT-7 (6 sat)



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??	<a href="#">Atlas 5</a> 551	AFSPC-7
??	??	Landsat 9
??	??	AEHF 5
??	<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
??	<a href="#">Soyuz-2.1B</a>	Arktika M 1
Launch site: Восточный (Vostochniy), Cosmodrome, Russia		
??	<a href="#">Soyuz-2-1B/Fregat</a> -M	Arktika M
??	<a href="#">Soyuz-2-1B/Fregat</a> -M	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
??	<a href="#">Proton-M/Briz-M</a>	EutelSat 5 West B / MEV
??	<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</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="#">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="#">Vega</a>	TARANIS





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??	CZ	HY-3B Haiyang-3B
??	<a href="#">CZ-3B/E</a>	<a href="#">Compass-M6</a> ; <a href="#">Compass-M7</a>
??	<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

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



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Sep??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glonass K1 / 22
??	<a href="#">Falcon 9</a> FT <a href="#">Dragon</a> SpX-20	
Oct??	<a href="#">Atlas 5</a> 552	Dream Chaser Cargo System
Nov29.	<a href="#">Soyuz-2</a> 1a / <a href="#">Fregat</a>	Luna 25 (Luna-Glob-1)
Dec02.	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a> v1.1	USCV-5 (US Commercial Vehicles)
??	<a href="#">Falcon 9</a> v1.1	Astrium active SARah satellite
??	<a href="#">Falcon 9</a>	GPS IIIA-6
??	<a href="#">Falcon 9</a> v1.2	GPS IIIA-7
??	<a href="#">Falcon 9</a> v1.2	GPS IIIA-8
??	<a href="#">Delta IV-M+(4,2)/ <a href="#">Atlas 5</a> 421</a>	GPS IIIA-9/GPS IIIB-1
??	<a href="#">Delta IV-M+(4,2)/ <a href="#">Atlas 5</a> 421</a>	GPS IIIA-10/GPS IIIB-2
??	<a href="#">Atlas 5</a> 551	Asteroid Retrieval Spacecraft (ARS)
??	??	EX-3
??	??	AEHF-6
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 12
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 13
??	<a href="#">Proton-M/Briz-M</a>	Elektro L - 5
??	<a href="#">Soyuz ST</a> / <a href="#">Vega</a>	MicroCarb
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	Sentinel-1C
??	<a href="#">Ariane 5</a>	ViaSat-3
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	<a href="#">Glonass-M/</a> 53
??	<a href="#">Soyuz-2-1B/Fregat</a>	Glonass M/ 58
??	<a href="#">Soyuz-2-1B/Fregat</a>	Glonass M / 59
??	<a href="#">Soyuz-2-1B/Fregat</a>	Glonass M / 60
??	CZ	FY-3F Fengyun-3F (Batch 2)
??	CZ	FY-3 Fengyun-3 RM-2
??	<a href="#">CZ-4B</a>	HY-2D Haiyang-2D
??	CZ	Sun Fixed-Point Observation
??	<a href="#">PSLV</a> XL <a href="#">Aditya'</a>	
2020.		
Mar30.	Soyuz 2-1A	Sojuz MS-15
Mar??	<a href="#">Delta IV-M</a>	DMSP-5D3 F20
Mar??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glonass K1 / 22
??	CZ7	TZ 4 Tianzhou 4 (Logistic Cargo Vechile)
??	CZ-2F/G	SZ-14 Shenzhou-14
??	<a href="#">CZ-3B/G2</a>	ZX-18 Zhongxing-18
June01.	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a> v1.1	USCV-6 (US Commercial Vehicles)



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June??	Ariane	MTG-S1/Sentinel-4A
??	<a href="#">Soyuz ST B/Fregat</a> -MT	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
??	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
??	<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



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??	<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 Vehicle)
??	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 (unmanned)
??	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</a> -1B/ <a href="#">Fregat</a> -M	Resurs PM - 2
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Meteor M No2-4
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Meteor M No2-5
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Meteor M No3
??	<a href="#">Angara</a> 1.2	<a href="#">Gonets</a> x 3
??	<a href="#">Soyuz-2</a> -1B	Obzor R -1
??	<a href="#">Angara</a> A5P/DM03	Lutch 5 – 2
??	??	Ямал GK 1
??	<a href="#">Soyuz-2</a> -1b	Bion-M No. 2
??	<a href="#">Angara</a> A5P/DM03	Enisei A-1
??	<a href="#">Vega</a>	Sentinel-1A 2nd Gen



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??	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</a> -1A	Sojuz MS-19
Apr??	<a href="#">Angara</a> A5/ DM 03	Elektro M – 1-2
??	CZ7	TZ 6 Tianzhou 6 (Logistic Cargo Vehicle)
??	CZ-2F/G	SZ-16 Shenzhou-16
June??	<a href="#">Ariane 5</a> 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.	<a href="#">Soyuz-2</a> -1A	Sojuz MS-20
Sep??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	MetOp-SG B1
??	<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.    [Soyuz-2](#)-1A    Sojuz MS-21





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- Sep30.      [Soyuz-2](#)-1A                      Sojuz MS-22
- ??            SLS Block IA II                              Orion: Exploration Mission 3 (Crew to Cislunar)
- ??            [Angara](#)A5P                              Federatsia (unmaned flight to ISS)  
 ??            [Angara](#)A5P                              Federatsia (Light 14t – 2 man to ISS)
- ??            [Soyuz-2](#)                              [Progress MS](#) 23  
 ??            [Soyuz-2](#)                              [Progress MS](#) 24  
 ??            [Soyuz-2](#)                              [Progress MS](#) 25
- ??            A Russian [Proton/Briz-M](#) (or Angara) rocket to launch the [Laplas-P](#) mission to orbit the moon of Jupiter Ganymede.
- ??            Russia to launch a [Luna-Grunt mission](#) (Luna-29) to return lunar soil samples from the polar regions of the Moon back to Earth.
- ??            [Proton-M/Briz-M](#)                              Ekspres – AT3, AT4  
 ??            [Soyuz-2](#)-1B/[Fregat](#)-M                      Resurs PM - 3  
 ??            [Angara](#) 1.2                                      [Gonets](#) x 3  
 ??            [Soyuz-2](#)-1B                                      Obzor R -2  
 ??            [Soyuz-2](#)-1B                                      Obzor O -1  
 ??            [Soyuz-2](#)-1B/[Fregat](#)-M                      Ellips - 1  
 ??            [Angara](#) A5P/DM03                              Dopler 1, 2
- ??            [Vega](#)                                      Sentinel-2A 2nd Gen
- ??            CZ                                      SPORT (Solar Polar Orbit Radio Telescope)  
 ??            CZ                                      FY-4D Fengyun-4D  
 ??            CZ5                                      Chang'e-6 (Moon far side sample return)
- ??            [GSLV](#) MK III                              Mission to Venus
- 2024
- Mar30.      [Soyuz-2](#)-1A                      Sojuz MS-23
- Sep30.      [Soyuz-2](#)-1A                      Sojuz MS-24
- Oct??      EELV                              GOES-U
- ??            SLS Block IA II                              Orion: Exploration Mission 4 (Crew to Cislunar)
- ??            [Soyuz-2](#)                              [Progress MS](#) 26  
 ??            [Soyuz-2](#)                              [Progress MS](#) 27  
 ??            [Soyuz-2](#)                              [Progress MS](#) 28
- ??            [Soyuz-2](#) 1b                      Luna28 (Luna-Grunt-1)                      delivering a new-generation rover for gathering, analysis and uploading of samples
- ??            [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



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??	<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-2-1B/Fregat-M</a>	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-2-1A</a>	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-2-1B</a>	Obzor O -2
??	<a href="#">Soyuz-2-1b</a>	Bion-M No. 3
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Arktika M 5
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Ellips - 2
??	<a href="#">Angara</a> A5P/KVTK	Enisei A-2
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Resonans 2A, 2B, MKA-PN5
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	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
??	CZ	Jupiter Orbiter
??	CZ	Mars Sample Return
??	CZ	Chang'e-8 (Moon north pole landing)