



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (26.12.2016.)

2016.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in **red**. Last change **26.Dec.2016**.

Dec27. **0330UTC** [CZ-2D](#) [GJ – 1 GaoJing – 1 / GJ – 2 GaoJing – 2](#), BY70-1
Launch site: [Taiyuan](#), China

Dec30. **1515UTC** [CZ-3B/G2](#) [TXJSSY-2](#)
Launch site: [Xichang](#), China

84 + (2)

2017.

Jan07. **2036UTC** [Falcon 9](#) [Iridium Next](#) Flight 1 (x10)
Launch site: [Vandenberg](#), 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

Jan20. [GSLV](#) MK II F09 [GSAT-9](#)
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

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

Jan27. **0100UTC** [Atlas 5](#) 401 (AV068) [NROL-79](#)
Launch site: [Vandenberg](#), USA

Jan27. [PSLV](#) XL C37 [Cartosat-2D](#)
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

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

??Jan28. [Soyuz-2](#) 1A / [Fregat](#) M [Kanopus V](#) I K
Launch site: [Байконур \(Baikonur\) Cosmodrome](#), Kazakhstan

Jan?? [Rokot / Briz KM](#) [Gonets](#) x 3 (No 24,25,26), [Blits-M](#)
Launch site: [Плесецк \(Plesetsk\) Cosmodrome](#), Russia

Jan?? [Falcon 9](#) FT [Echostar 23](#)
Launch site: [Cape Canaveral](#), USA

Jan?? [KZ-1A](#) JL – 2 [Jilin](#) – 2



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Launch site: [Jiuquan](#), China

??Feb02. [Soyuz U](#) [Progress MS 5](#) 140

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

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

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

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

Launch site: [Semnan](#), Iran

Feb?? [Proton-M/Briz-M](#) [EchoStar 21](#)

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

?? [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

?? [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

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

Mar09.0000UTC [Delta IV](#)-M+ (5,4) WGS 9

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

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

Mar21. [Ariane 5](#) ECA (VA236) SGDC 1

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

CDR: Fyodor Yurichkhin, Jack D. Fischer

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

Mar?? [GSLV](#) MK III D1 GSAT-19E 120

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

Mar?? [Falcon 9](#) NROL 76

Mar?? [CZ-3B/G2](#) ZX-16 Zhongxing-16 (DFH-4E bus)

Mar?? [Falcon 9](#) [Dragon](#) SpX-11 (CRS11)

Mar?? [Proton-M/Briz-M](#) Hispasat 1f

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

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



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?? [CZ-4B](#) SJ-13 Shijian-13A; Shijian-13B GEO satellite with electric propulsion system based on DFH-3B bus
 ?? [CZ-4C](#) Hede-1
 ?? [CZ-4B](#) HY-1C Haiyang-1C
 ?? [Falcon 9](#) FT KoreaSat 5A
 ?? [CZ-4B](#) FY-3D Feng Yun-3D

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

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

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

Apr?? [Rokot / Briz KM](#) Sentinel 2B
 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
 ?? [Ariane 5](#) ECA Koreasat-7 (Mugungwa 7)

May04. [Atlas 5](#) (531) (AV072) AEHF-4 **100**

May28. [Soyuz-2](#) 1A [Soyuz MS](#) 5 (S52/53)
 CDR: Сергей Николаевич **РЯЗАНСКИЙ** (Sergei N. Ryazansky), Paolo Nespoli (ESA), Randolph J. Bresnik

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)

June?? [CZ-3B/E](#) Alcomsat-1
 June?? [Antares](#) 230 [Cygnus](#) Orb-8
 June?? LS-1 LandSpace-1
 June?? [Rokot / Briz KM](#) Sentinel-5 Precursor

?? [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

?? Falcon H Demo Flight
 ?? [Falcon 9](#) FT BulgariaSat
 ?? [Falcon 9](#) FT SES-11 /EchoStar 105
 ?? CZ-5 SJ-18
 ?? [Proton-M/Briz-M](#) AsiaSat-9
 ?? [Falcon 9](#) FT Inmarsat 5 F4
 ?? [Falcon 9](#) FT [Iridium Next](#) Flight 3 (x10)

July15. Zenit 3-SLB / DM-SLB AngoSat



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July??	Minotaur-4/Orion 38	ORS-5: SensorSat	80
??	Ariane 5	Eutelsat 172B	
??	Proton-M/ DM 3	Electro-L N3	
??	Proton-M/Briz-M	EuropaSat 3	
??	Atlas 5 551	AFSPC-11	
??	Soyuz-2-1B/Fregat-M	Meteor M-2-2, Ionosfera 3, Ionosfera 4	
??	Ariane 5 ECA	EDRS-C (Hylas 3)	
??	Ariane 5 ECA	GSAT-11	
Aug03.	Atlas 5 401	TDRS-M	
Aug31.	Atlas 5 421	NROL-52	
Aug??	Ariane 5 ES (Alexandre), Galileo-FOC FM18 (Irina)	Galileo-FOC FM15 (Nicole), Galileo-FOC FM16 (Zofia), Galileo-FOC FM17	
Aug??	Vega (VV10) Venµs,	OPTSAT 3000	
Aug??	Falcon 9 FT	Iridium Next Flight 4 (x10)	
??	Epsilon (Jap)	ASNARO 2	
Sep12.	Soyuz-2 1A Soyuz MS 6 (S53/54)		
CDR: Александр Александрович МИСУРКИН (Aleksandr A. Misurkin), Mark T. Vande Hei			
Sep13.	Falcon 9 FT	Dragon SpX-13	
Sep??	CZ-2D	VRSS-2 (Bolivia Remote Sensing Satellite)	
Sep??	CZ-3B/G2	ZX-6C Zhongxing-6C	
Sep??	Soyuz-2 1A / Fregat	Kanopus V 3, Kanopus V 4	
??	Falcon 9 FT	Es'hail 2	
??	??	HY-3A Haiyang-3A	60
??	Falcon 9 FT	SES-16	
Oct12.	Soyuz-2 1A	Progress MS 7	
Oct??	Soyuz ST B/Fregat-M	MetOp-C	
Oct??	Atlas 5 401	SBIRS-GEO 4	
Oct??	Falcon 9 FT	SAOCAM 1A	
Oct??	Delta II 7920-10C	JPSS-1	
Oct??	Falcon 9 FT	Iridium Next Flight 5 (x10)	
Oct??	Ariane 5	Hylas 4	
Nov10.	Delta II 7320-10C	ICESat-II	
Nov17.	Antares 230	Cygnus Orb-9	
Nov30.	Soyuz-2 1A Soyuz MS 7 (S54/55)		
CDR: Александр Александрович Скворцов (Alexander Skvortsov), Norishige Kanai, Scott Tingle			
Nov??	Vega (VV11) Aeolus		
Nov??	Falcon 9	Dragon v2 unmanned test	
??	Falcon 9 FT	SES-14 / GOLD	



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Dec02.	Atlas 5	402 / Falcon 9 v1.1 USCV-1 (US Commercial Vehicles)	
Dec07.	Atlas 5	551	AFSPC-7
Dec??	Soyuz / Vega		CSO 1
Dec??	PSLV		Cartosat-2E
Dec??	CZ-2D		GJ-3 GaoJing-3
Dec??	Falcon 9	FT	TESS
Dec??	Falcon 9	FT	Grace-FO
Dec??	PSLV		Team Indus
Dec??	Falcon 9	FT	Iridium Next Flight 6 (x10)
??	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
??	Angara	1.2	Kosmos
??	Soyuz-2-1V	/ Volga	Geo IK 2
??	Soyuz-2-1B		Persona - 3
??	Angara	A5/ DM03	Kosmos
??	Zenit 3 SL	/ Fregat -SB	Lybid'
??	Proton-M	/ DM-03	Glonass-M / ??
??	Soyuz-2-1B / Fregat -M		Glonass-M / 56
??	Soyuz-2-1B / Fregat		Glonass K2 / 13
??	Vega		OpSis
??	Vega		VNREDSat
??	Vega		LOTUSat
??	Vega		Prisma
??	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)
??	CZ-2F/G		SZ-12 Shenzhou-12
??	CZ-5		Chang'e-5 (Sample return)
??	CZ-2C		ZH-1 Zengheng 1 (ESEM experimental satellite on Electromagnetism Monitoring)
??	CZ-3A		FY-2H Fengyun-2H
??	CZ-2D		GF-5 Gaofen-5
??	CZ		SVOM (Space-based multi-band astronomical Variable Objects Monitor)
??	CZ-2D		GF-6 Gaofen-6
??	CZ-2		CAS-2A1, CAS-2A2
??	??		YG-32 Yaogan Weixing 31
??	??		YG-32 Yaogan Weixing 32
??	CZ?		Orbita-1 1

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?? [GSLV](#) MK II F11 GSAT-6A
?? [GSLV](#) MK II F10 GISAT

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

?? [Safir 1 B](#) Tadbir
?? Safir 3A Pars sepher

(25)
(153)

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/G1I](#) 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?? [PSLV](#) Cartosat-3
Mar?? [Atlas 5](#) (541) GOES-S

?? [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 **Самокутяев** (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)



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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
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		
Sep??	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.
Oct16.	Soyuz-2	Progress MS 11
Oct??	Ariane 5 ES	JWST (James Webb Space Telescope)
Oct??	Falcon 9 FT	Dragon SpX-17
Oct??	Ariane 5	BepiColombo ESA and ISAS Mercury Orbiters
??	Proton-M/ DM-03	Glonass-M/K16,K17,K18
Nov30.	Soyuz-2 1A	Soyuz MS 11 (S58/59)
CDR: Кононенко (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)
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



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??	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	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
??	??	МКА 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	Sentinel 3B
??	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



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??	Ariane 5	ECA Intelsat 37e
??	Ariane 5	ECA DSN 1 (Superbird-8)
??	Soyuz ST	B/ Fregat MetOp-C
??	Soyuz ST	TARANIS
??	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

начало года – Космос (Глонасс-K2 №13) [блок K3c] – Союз-2-1Б/Фрегат-М – Плесецк (или 2019)
 начало года – Космос (Глонасс-М) – Союз-2-1Б/Фрегат-М – Плесецк (или не позже 25 ноября)

первый квартал – Космос (Глонасс-K1 №15) [блок K4c] – Союз-2-1Б/Фрегат-М – Плесецк
 первый квартал – Космос (Глонасс-K1 №16) [блок K5c] – Союз-2-1Б/Фрегат-М – Плесецк

второй квартал – Космос (Глонасс-K1 №17) [блок K6c] – Союз-2-1Б/Фрегат-М – Плесецк

третий квартал – Космос (Глонасс-K1 №18, 19, 20) [блок K7] – Протон-М/ДМ-03 – Байконур
 четвертый квартал – Космос (Глонасс-K2 №14) [блок K8c] – Союз-2-1Б/Фрегат-М – Плесецк (или 2019)
 не позже 25 ноября – Космос (Глонасс-М) – Союз-2-1Б/Фрегат-М – Плесецк

Beginning of year - Kosmos (Glonass-K2 n.º 13) [block K3s] – Soyuz-2-1B/Fregat-M – Plesetsk (Or 2019)
 Beginning of the year - Kosmos (Glonass n.º 55) - Soyuz-2-1B/Fregat-M – Plesetsk
 First quarter - Kosmos (Glonass-K1 n.º 15) [block K4s] – Soyuz-2-1B/Fregat-M – Plesetsk
 First quarter - Kosmos (Glonass-K1 n.º 16) [block K5s] – Soyuz-2-1B/Fregat-M – Plesetsk
 Second quarter - Kosmos (Glonass-K1 n.º 17) [block K6s] – Soyuz-2-1B/Fregat-M – Plesetsk
 Third quarter - Kosmos (Glonass-K1 n.º 18, 19, 20) [block K7] – Proton-M/DM-03 – Baikonur
 Fourth quarter – Kosmos (Glonass-K2 n.º 14) [block K8s] – Soyuz-2-1B/Fregat-M – Plesetsk (Or 2019)
 TBD - Glonass-K1 n.º 21, 22, 23 - Proton-M/Briz-M (TBD) - Baikonur (TBD) (or 2019)



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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

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

?? [Soyuz-2-1B/Fregat-M](#) [Glonass-M/](#) 53



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?? [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'](#)

ПО – Глонасс-К2 – Союз-2-1Б/Фрегат-М – Плесецк
 TBD - GLONASS-K2 - Soyuz-2-1B/Fregat-M – Plesetsk

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/EP-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.



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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
 ?? ?? HypIRI
 ?? Antares IMAP/STP-05

?? Falcon H ViaSat 3

?? [Soyuz-2](#) [Progress MS](#) 14
 ?? [Soyuz-2](#) [Progress MS](#) 15
 ?? [Soyuz-2](#) [Progress MS](#) 16

?? [Soyuz-2](#) 1a / [Fregat](#) [Luna 26](#) (Luna-Resurs OA)

?? [Proton-M/Briz-M](#) Ekspress - 103

?? [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)



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Sep30.	Soyuz-2 -1A	Sojuz MS-18
Oct??	Atlas 5 401/ Falcon 9 v1.1	JPSS Free Flyer 2 (TSIS-2)
Oct??	Angara A5P	Federatsia (unmaned)
??	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
??	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



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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	Ekspress – AMU 5
??	Proton-M/Briz-M	Ekspress – AMU 6
??	Proton-M/Briz-M	Ekspress – 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
??	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 (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	Ekspress – AT3, AT4
??	Soyuz-2 -1B/ Fregat -M	Resurs PM - 3
??	Angara 1.2	Gonets x 3
??	Soyuz-2 -1B	Obzor R -2
??	Soyuz-2 -1B	Obzor O -1
??	Soyuz-2 -1B/ Fregat -M	Ellips - 1
??	Angara A5P/DM03	Dopler 1, 2
??	Vega	Sentinel-2A 2nd Gen



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??	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	Ekspress – AMU 9
??	Soyuz-2 -1B/ Fregat -M	Resurs PM - 4
??	Soyuz-2 -1B/ Fregat -M	Meteor MP No1
??	Angara 1.2	Gonets x 2, Gonets M
??	Angara A5P/DM03	Lutch 5 – 4
??	Proton-M / DM-03	Elektro L - 5
??	??	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



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- ?? 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)