



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (16.01.2017.)

2017.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in **red**. Last change **16.Jan2017**.

Jan20. 0046UTC [Atlas 5](#) 401 (AV066) [SBIRS-GEO 3](#)
Launch site: [Cape Canaveral](#), USA

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

Jan26. 0500UTC [Falcon 9](#) FT [Echostar 23](#)
Launch site: [Cape Canaveral](#), USA

Jan27. 0100UTC [Atlas 5](#) 401 (AV068) [NROL-79](#) Intruder 12A (NOSS 3-8A) Intruder 12B (NOSS 3-8B)
Launch site: [Vandenberg](#), USA

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

Feb01. [PSLV](#) XL C37 [Cartosat-2D](#)
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

Feb02. [Proton-M/Briz-M](#) [EchoStar 21](#)
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

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

Feb14. [Ariane 5](#) ECA (VA235) Intelsat 32e (SkyBrasil – 1) / Telkom 3S
Launch site: [Kourou](#), French Guiana **150**

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

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

?? [H-2A](#) IGS Radar 5
?? [Soyuz-2-1V](#) / Volga Гонец-M1
?? [Falcon 9](#) FT SES-10
?? [Soyuz-2-1B/Fregat](#)-M [Glonass-M](#) / 56

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

Mar07. [Falcon 9](#) [Dragon](#) SpX-11 (CRS11) **140**



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- Mar08. 2335UTC [Delta IV](#)-M+(5,4) WGS 9
- Mar16. 0429UTC [Atlas 5](#)401 [Cygnus](#) Orb-7 (CRS-7)
Launch site: [Cape Canaveral](#), USA
- Mar21. [Ariane 5](#) ECA (VA236) SGDC 1 / Koreasat-7 (Mugungwa 7)
- 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
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
- ?? [Proton-M/Briz-M](#) [Blagovest \(14Φ149\)](#)
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan 130
- ?? [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
- ?? [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
- Apr23. 1000UTC [PSLV](#) C38 EMI SAT / SPADEX 120
- Apr?? CZ7 TZ 1 Tianzhou 1 (Logistic Cargo Vehicle)
Launch site: [Wenchang](#), China
- 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
- May04. [Atlas 5](#) (531) (AV072) AEHF-4
- May28. [Soyuz-2](#) 1A [Soyuz MS](#) 5 (S52/53)
CDR: Сергей Николаевич **РЯЗАНСКИЙ** (Sergei N. Ryazansky), Paolo Nespoli (ESA), Randolph J. Bresnik



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May??	Minotaur-C XL	SkySat 8/9/10/11/12	
June01.	Falcon 9 FT	Dragon SpX-12	110
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	
June??	CZ	Tianyi	
??	Soyuz-2 1A / Fregat M Kanopus V IK		
	Launch site: Байконур (Baikonur) Cosmodrome, Kazakhstan		
??	Falcon H	Demo Flight	100
??	Falcon 9 FT	BulgariaSat	
??	Falcon 9 FT	SES-11 /EchoStar 105	
??	CZ-5	SJ-18 (DFH5 bus)	
??	Proton-M/Briz-M	AsiaSat-9	
??	Falcon 9 FT	Inmarsat 5 F4	
??	Falcon 9 FT	Iridium Next Flight 3 (x10)	
??	Falcon 9 FT	Intelsat 35e	
July15.	Zenit 3-SLB / DM-SLB	AngoSat	
July??	Minotaur-4/Orion 38	ORS-5: SensorSat	
July??	GSLV MK II F11	GSAT-6A	90
??	Ariane 5	Eutelsat 172B	
??	Proton-M/ DM 3	Electro-L N3	
??	Proton-M/Briz-M	EuropaSat 3	
??	Soyuz-2-1B/Fregat-M	Meteor M-2-2, Ionosfera 3, Ionosfera 4	
??	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)	80
??	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	



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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	
??	Rokot / Briz KM	Gonets x 3 (No 24,25,26), Blits-M	
Launch site: Плесецк (Plesetsk) Cosmodrome, Russia			
??	Falcon 9 FT	Es'hail 2	
??	CZ	HY-3A Haiyang-3A	
??	Falcon 9 FT	SES-16	70
??	Falcon Heavy	STP-02	
??	Atlas 5 551	AFSPC-7	
??	Falcon 9 FT	ORS-6	
??	Soyuz-2-1V /Volga	Geo IK 2	
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)	60
Oct??	Ariane 5	Hylas 4	
Oct??	CZ	Ministar-1	
Oct??	Ariane 5 ECA	EDRS-C (Hylas 3)	
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	
Nov??	Rokot / Briz KM	Sentinel 3B	
??	Falcon 9 FT	SES-14 / GOLD	50
Dec02.	Atlas 5 402 / Falcon 9 v1.1	USCV-1 (US Commercial Vehicles)	
Dec07.	Atlas 5 551	AFSPC-11	
Dec16.	Falcon 9 FT	Bangabandhu-1	
Dec??	Soyuz / Vega	CSO 1	
Dec??	PSLV	Cartosat-2E	
Dec??	CZ-2D	GJ-3 GaoJing-3, GJ-4 GaoJing-4	
Dec??	Falcon 9 FT	TESS	
Dec??	Falcon 9 FT	Grace-FO	
Dec??	PSLV	Team Indus	
Dec??	Falcon 9 FT	Iridium Next Flight 6 (x10)	40
Dec??	CZ-5	Chang'e-5 (Sample return)	
??	Falcon 9 FT	PSN VI	



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??	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 -1B	Persona - 3	
??	Angara A5/ DM03	Kosmos	
??	Zenit 3 SL / Fregat -SB	Lybid'	30
??	Proton-M / DM-03	Glonass-M /	??
??	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)	20
??	CZ-2F/G	SZ-12 Shenzhou-12	
??	CZ-2D	Hard X-ray Modulation Telescope (HXMT)	
HXMT comprises three to four single telescopes equipped with hard X-ray detectors, instead of optical lenses, and will be used to observe space black holes.			
Launch site: Jiuquan , China			
??	CZ-2C	ZH-1 Zengheng 1 (ESEM experimental satellite on Electromagnetism Monitoring)	
??	CZ-3B/G2	ZX-16 Zhongxing-16 (DFH-4E bus)	
??	CZ-3A	FY-2H Fengyun-2H	
??	CZ-2D	GF-5 Gaofen-5	
??	CZ-2D	GF-6 Gaofen-6	
??	CZ-2	CAS-2A1, CAS-2A2	
??	CZ	YG-32 Yaogan Weixing 31	
??	CZ	YG-32 Yaogan Weixing 32	10
??	CZ	Orbita-1 1	
??	CZ-4B	HY-1D Haiyang-1D	
??	CZ-4B	HY-2B Haiyang-2B	
??	CZ-4B	FY-3D Feng Yun-3D	
??	CZ-2D	SaudiSAT 5B	
??	CZ-2D	JL-3 Jilin-3	
??	??	LJ-1 Luojia-1	
??	Tronador II/VEX5	TBD (suborbital)	
Launch site: Puerto Belgrano, Argentina			



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

1 + (24)
 4 + (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/GI](#) 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 Vechile)
 ?? [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)

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)



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??	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	Glomass-M/ K16,K17,K18
??	GSLV MK II	F10 GISAT
Nov30.	Soyuz-2 1A	Soyuz MS 11 (S58/59)
CDR: Кононенко (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.	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	Glomass 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 ПН6 (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)
??	Ariane 5 ES	Galileo-FOC FM19 (Tara), Galileo-FOC FM20 (Samuel), Galileo-FOC FM21 (Anna),
??	Galileo-FOC FM22 (Ellen)	
??	Ariane 5 ECA	Jabiru 2
??	Ariane 5	Arsat 3
??	Ariane 5 ECA	Jabiru-1
??	Ariane 5 ECA	Intelsat 37e
??	Ariane 5 ECA	DSN 1 (Superbird-8)



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??		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

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



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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
??	Soyuz-2-1B/Fregat	Glonass M/ 58
??	Soyuz-2-1B/Fregat	Glonass M / 59
??	Soyuz-2-1B/Fregat	Glonass M / 60
??	CZ	FY-3F Fengyun-3F (Batch 2)
??	CZ	FY-3 Fengyun-3 RM-2
??	CZ-4B	HY-2D Haiyang-2D
??	CZ	Sun Fixed-Point Observation
??	PSLV XL	Aditya'
2020.		
Mar30.	Soyuz 2-1A	Sojuz MS-15
Mar??	Delta IV -M	DMSP-5D3 F20
Mar??	Soyuz-2-1B/Fregat -M	Glonass K1 / 22
??	CZ7	TZ 4 Tianzhou 4 (Logistic Cargo Vechile)
??	CZ-2F/G	SZ-14 Shenzhou-14



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- ?? [CZ-3B/G2](#) ZX-18 Zhongxing-18
- June 01. [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/EPSS-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)
- Aug 05. [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
- Sep 30. Soyuz 2-1A Sojuz MS-16
- Sep?? CZ CBERS-6
 Sep?? [Soyuz-2-1B/Fregat-M](#) Glonass K2 / 15
- Dec?? [Soyuz ST B/Fregat](#) MT Euclid
 Euclid will depart Earth on a Soyuz rocket launched from French Guiana and head for the L2 Lagrange point.
- Dec?? Atlas V Landsat 9
- ?? GSLV-Mk III. Dr B N Suresh and Mr Madan Lal, Vikram Sarabhai Space Centre (VSSC) presented the concept for the manned space mission including the development of an autonomous Orbital Vehicle (4,000kg manned capsule).
- ?? ?? SWOT
 ?? ?? PACE
 ?? ?? EX-4
 ?? ?? ACE
 ?? ?? HypsIRI
 ?? 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](#) Ekspres - 103
- ?? [Soyuz-2-1B/Fregat-M](#) Arktika M 3
 ?? [Soyuz-2-1B/Fregat-M](#) Glonass K2



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?? [Soyuz-2-1B/Fregat-M](#) [Resurs PM - 1](#)
 ?? [Soyuz-2-1B/Fregat-M](#) Meteor M No2-3
 ?? [Angara 1.2](#) Kompsat-6

?? [Vega](#) Sentinel-2C
 ?? [Vega](#) Sentinel-3C
 ?? ?? Biomass
 ?? ?? Seosat-Ingenio-2
 ?? ?? EPS-SG-b

?? CZ Recoverable Moon Probes
 ?? CZ Two Meter Space Telescope
 ?? CZ FY-4C Fengyun-4C
 ?? [GSLV](#) MK III MOM-2 Follow on Mars Mission
 ?? H-IIA [Hope](#) (UAE mission to Mars)

2021.

Mar30. [Soyuz-2-1A](#) Sojuz MS-17

Apr?? [Soyuz ST B/Fregat M](#) MarcoPolo-R

May?? [Proton-M](#) / DM-03 Spektr - UF

?? CZ7 TZ 5 Tianzhou 5 (Logistic Cargo Vehicle)

?? CZ-2F/G SZ-15 Shenzhou-15

July?? Vulcan/Minotaur 6/[Falcon 9](#) v1.1 JPSS-2

Aug?? SLS Block I Orion: Exploration Mission 2 (Crew to Cislunar) Mission)

Sep30. [Soyuz-2-1A](#) Sojuz MS-18

Oct?? [Atlas 5](#) 401/[Falcon 9](#) v1.1 JPSS Free Flyer 2 (TSIS-2)

Oct?? [Angara](#) A5P Federatsia (unmanned)

?? SLS Block I Europa Clipper

?? [Soyuz-2](#) [Progress MS](#) 17

?? [Soyuz-2](#) [Progress MS](#) 18

?? [Soyuz-2](#) [Progress MS](#) 19

?? [Soyuz-2](#) 1b Luna 27 (Luna-Resurs PA) Testing an adaptive landing mode with a radio-beacon; delivering a rover

?? [Proton-M/Briz-M](#) Ekspres – 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



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??	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 Vehicle)
??	CZ-2F/G	SZ-16 Shenzhou-16
June??	Ariane 5 ECA	JUICE (JUperiter ICy moon Explorer)
June??	Ariane 5	MTG-I2
??	CZ-5B	Xuntian Lab module Space station module
Aug??	H2B	Phobos sample return
Sep30.	Soyuz-2 -1A	Sojuz MS-20
Sep??	Soyuz ST B/ Fregat -MT	MetOp-SG B1
??	Soyuz-2	Progress MS 20
??	Soyuz-2	Progress MS 21
??	Soyuz-2	Progress MS 22
??	Proton-M/Briz-M	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



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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

?? 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



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??	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
??	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)