



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (27.03.2017.)

2017.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in **red**. Last change **27.Mar.2017**.

Mar28. 2031UTC [Ariane 5](#) ECA (VA236) [SGDC 1](#) / [Koreasat-7](#) (Mugungwa 7)
Launch site: [Kourou](#), French Guiana

Mar29. 2058UTC [Falcon 9](#) FT [SES-10](#)
Launch site: [Cape Canaveral](#), USA

Mar30. [Atlas 5](#) 401 [Cygnus](#) Orb-7 (CRS-7)
Launch site: [Cape Canaveral](#), USA

?? [Soyuz-2-1B/Fregat-M](#) [Glonass-M](#)/ 56
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

Apr11. 1447UTC [Soyuz ST B/Fregat-MT](#) (VS17) [SES 15](#)
Launch site: [Kourou](#), French Guiana

Apr15. [PSLV](#) C38 [Cartosat-2E](#)
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

Apr16. [Falcon 9](#) [NROL 76](#)
Launch site: [Cape Canaveral](#), USA

Apr20. 0713UTC [Soyuz-2](#) 1A [Soyuz MS](#) 4 (S51/52)
CDR: Fyodor Yurichkhin, Jack D. Fischer
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

Apr23. 1020UTC CZ7 [Tianzhou 1](#) TZ 1 (Logistic Cargo Vechile)
Launch site: [Wenchang](#), China

Apr25. [Ariane 5](#) (VA237) [ViaSat-2](#) / [Eutelsat 172B](#) **120**
Launch site: [Kourou](#), French Guiana

Apr30. 2316UTC [Falcon 9](#) FT [Inmarsat 5 F4](#)
Launch site: [Cape Canaveral](#), USA

Apr?? [CZ-3B/G2](#) SJ-13 Shijian-13A; Shijian-13B (GEO ZX-16 Zhongxing-16 satellite with electric propulsion system based on DFH-3B bus)

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

May?? [Falcon 9](#) [Dragon](#) SpX-11 (CRS11)
Launch site: [Cape Canaveral](#), USA

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

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

?? [Falcon 9](#) FT Intelsat 35e



Blog Gorana Hudeca

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
June17.	Falcon 9 FT	Iridium Next Flight 2 (x10)	
June28.	Ariane 5 ECA (VA238)	EuropaSat (HellasSat 3) / GSAT-17	
June29.	Soyuz-2 1A / Fregat M	Kanopus V IK	
Launch site: Байконур (Baikonur) Cosmodrome, Kazakhstan			
June29.	Atlas 5 (531) (AV074)	AEHF-4	
June??	Proton-M/Briz-M	Blagovest (14Φ149)	
Launch site: Байконур (Baikonur) Cosmodrome, Kazakhstan			
June??	CZ-2D	Hard X-ray Modulation Telescope (HXMT)	
HXMT comprises three to four single telescopes equipped with hard X-ray detectors, instead of optical lenses, and will be used to observe space black holes.			
Launch site: Jiuquan , China			
June??	GSLV MK III D1	GSAT-19E	
Launch site: Satish Dhawan Space Centre , Sriharikota, India			
June??	CZ-3B/E	Alcomsat-1	
June??	LS-1	LandSpace-1	
June??	Rokot / Briz KM	Sentinel-5 Precursor	100
June??	CZ-5	SJ-18 (DFH5 bus)	
June??	CZ-2D	Shaonian Xing	
??	Falcon 9 FT	SES 11	
July15.	0500GMT	Minotaur-4/Orion 38ORS-5: SensorSat	
July22.	Falcon 9 FT	Formosat 5	
July25.	Vega (VV10)	Venµs, OPTSAT 3000	
July28.	Soyuz-2 1A Soyuz MS 5 (S52/53)		
CDR: Сергей Николаевич РЯЗАНСКИЙ (Sergei N. Ryazansky), Paolo Nespoli (ESA), Randolph J. Bresnik			
July??	GSLV MK II F11	GSAT-6A	
July??	CZ-3B/YZ-1	Beidou 3 MEO M1, Beidou 3 MEO M2	
July??	Falcon 9 FT	KoreaSat 5A	90
July??	CZ-3B/G2	ZX-9A Zhongxing-9A	
??	Proton-M/Briz-M	AsiaSat-9	
Aug01.	Falcon 9 FT	Dragon SpX-12	
Aug03.	1240UTC	Atlas 5 401 (AV075)	TDRS-M
Aug24.	Falcon 9 FT	Iridium Next Flight 3 (x10)	



Blog Gorana Hudeca

Aug31.	Atlas 5 421 (AV076)	NROL-52 (Quasar 21)	
Aug??	CZ-2D	ZH-1 Zengheng 1 (ESEM experimental satellite on Electromagnetism Monitoring)	
Aug??	CZ-2D	Fengmaniu-1	
??	Epsilon (Jap)	ASNARO 2	
??	Proton-M/Briz-M	Amazonas 5	80
??	Ariane 5 ECA	Al Yah 3	
??	Ariane 5 ECA	GSAT-11	
??	Ariane 5 ECA	BSat 4a	
Sep12.	Soyuz-2 1A Soyuz MS 6 (S53/54)		
CDR: Александр Александрович МИСУРКИН (Aleksandr A. Misurkin), Mark T. Vande Hei, Joseph M. Acaba			
Sep23.	Delta II 7920-10C	JPSS-1	
Sep30.	Falcon Heavy	STP-02	
Sep??	CZ-2D	VRSS-2 (Bolivia Remote Sensing Satellite)	
Sep??	CZ-3B/G2	ZX-6C Zhongxing-6C	
Sep??	CZ-2D	GF-5 Gaofen-5	
Sep??	Zenit 3-SLB / DM-SLB	AngoSat	70
Sep??	CZ-4B	FY-3D Feng Yun-3D	
Sep??	CZ-3B /YZ-1	Beidou 3 MEO M3, Beidou 3 MEO M4	
??	Rokot / Briz KM	Gonets x 3 (No 24,25,26), Blits-M	
Launch site: Плесецк (Plesetsk) Cosmodrome, Russia			
??	Falcon 9 FT	SES-16	
??	Falcon 9 FT	ORS-6	
??	Rokot / Briz KM	Geo IK 2	
??	Soyuz-2-1V / Volga	Гонец-M1	
??	PSLV	IRNSS-1H	
??	Proton-M/Briz-M	Kosmos	
??	Falcon 9 FT	BulgariaSat	60
??	Falcon H	Demo Flight	
Oct01.	Antares 230	Cygnum Orb-8	
Oct12.	Soyuz-2 1A	Progress MS 7	
Oct18.	Delta IV -M+ (5,2)	NROL-47 (Topaz 5)	
Oct??	Falcon 9 FT	SAOCAM 1A	
Oct??	Ariane 5	Hylas 4	
Oct??	CZ	Ministar-1	
Oct??	Falcon 9 FT	Dragon SpX-13	
Oct??	CZ-11	TY-2, 3, 4, 5 Tianyi	
Oct??	Falcon 9 FT	Iridium Next Flight 4 (x10)	50
Oct??	CZ-3B /YZ-1	Beidou 3 MEO M5, Beidou 3 MEO M6	
Nov09.	Atlas 5 401 (AV078)	SBI RS-GEO 4	



Blog Gorana Hudeca

Nov30.	Soyuz-2 1A	Soyuz MS 7 (S54/55)	
CDR: ??, Norishige Kanai, Scott Tingle			
Nov??	Falcon 9	Dragon v2 unmanned test	
Nov??	Rokot / Briz KM	Sentinel 3B	
Nov??	CZ-5	Chang'e-5 (Sample return)	
Nov??	Soyuz-2 1A / Fregat	Kanopus V 3, Kanopus V 4	
Nov??	Vega (VV11)	Aeolus / ADM	
??	Ariane 5 ES	Galileo-FOC FM15 (Nicole), Galileo-FOC FM16 (Zofia), Galileo-FOC FM17 (Alexandre), Galileo-FOC FM18 (Irina)	
??	Falcon 9 FT	SES-14 / GOLD	40
??	Proton-M / DM 3	Electro-L N3	
Dec16.	Falcon 9 FT	Bangabandhu-1	
Dec28.	PSLV	Team Indus	
Dec??	CZ-2D	GJ-3 GaoJing-3, GJ-4 GaoJing-4	
Dec??	Falcon 9 FT	Grace-FO	
Dec??	Soyuz-2 -1B/Fregat-M	Meteor M-2-1, two MKA N, Ionosfera 1, Ionosfera 2	
Dec??	Falcon 9 FT	Iridium Next Flight 5 (x10)	
Dec??	CZ-3B /YZ-1	Beidou 3 MEO M7, Beidou 3 MEO M8	
Dec??	CZ-3C	Beidou 2 G8	
??	Falcon 9 FT	PSN VI	30
??	Falcon 9 FT	PAZ	
??	Ariane 5 ECA	EDRS-C (Hylas 3)	
??	Soyuz-2 -1V	Kosmos 14F150 (geodesy??)	
Launch site: Плесецк (Plesetsk) Cosmodrome, Russia			
??	Soyuz-2 -1B/ Fregat	Tundra 2	
Launch site: Плесецк (Plesetsk) Cosmodrome, Russia			
??	Angara 1.2	Kosmos	
??	Soyuz-2 -1B	Persona – 3	
??	Angara A5/ DM03	Kosmos	
??	Zenit 3 SL / Fregat -SB	Lybid'	
??	Proton-M / DM-03	Glonass-M / ??	
??	Soyuz-2 -1B	Pion	20
??	Soyuz-2 -1B	Labirint 11	
??	Ariane 5 ECA	SES 12	
??	Ariane 5 ECA	Azerspace 2 (Intelsat 38)	
??	CZ-??	CAS-4A , CAS-4B	
Launch site: Taiyuan , China			
??	CZ-3A	FY-2H Fengyun-2H	
??	CZ-2D	GF-6 Gaofen-6	
??	CZ-2	CAS-2A1, CAS-2A2	
??	CZ	YG-32 Yaogan Weixing 31	



Blog Gorana Hudeca

?? CZ YG-32 Yaogan Weixing 32
 ?? CZ Orbita-1 1 10

?? [CZ-2D](#) SaudiSAT 5B
 ?? [CZ-2D](#) JL-3 Jilin-3

?? ?? LJ-1 Luojia-1
 ?? CZ Tianyi
 ?? [CZ-4C](#) Hede-1

?? [PSLV](#) IRNSS-1I

?? [H-2A](#) [IGS Optical-6](#)
 ?? [H-2A](#) QSZ-3

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

?? [Simorgh](#) [Dosti](#)
 Launch site: [Semnan](#), Iran

3 + (25)
 17 + (129)

2018.

Jan?? [Vega](#) Seosat (Ingenio)

?? [Soyuz-2-1B/Fregat-M](#) [Glonass-M/](#) 52 140

Feb?? [Falcon 9](#) FT [Dragon](#) SpX-14
 Feb?? [Soyuz-2](#) 1A [Progress MS](#) 8
 Feb?? [Falcon 9](#) FT [Iridium Next](#) Flight 6 (x10)
 Feb?? [CZ-3B/YZ-1](#) Beidou 3 MEO M9, Beidou 3 MEO M10

?? [Soyuz-2-1B/Fregat](#) Glonass K2 / 13
 ?? [Soyuz-2-1B/Fregat-M](#) Meteor M-2-2, Ionosfera 3, Ionosfera 4
 ?? [Soyuz ST](#) B/Fregat-MT O3b

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

Mar20. [Falcon 9](#) FT TESS

Mar?? [Proton-M](#) rocket to launch Spektr-Rentgen-Gamma X-Ray observatory from Baikonur. 1900 kg Spectr-RG is a joint Russian-German X-ray observatory carrying two telescopes developed and produced by German and Russian partners. The primary instrument is German eRosita, complemented by Russian ART-XC. Main tasks of the project are studies of the sky in X-ray energy range, which can provide clues for the mystery of dark energy.

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



Blog Gorana Hudeca

Mar??	Antares 230	Cygnus Orb-9	
Mar??	Soyuz ST B/ Fregat -MT	OneWeb smalsat (x10)	
Mar??	CZ-3B /YZ-1	Beidou 3 MEO M11, Beidou 3 MEO M12	
??	Soyuz-2 -1B/ Fregat -M	Glonass M	
??	Delta IV -M+(4,2)	GPS III-1	
??	GSLV MK III D2	GSAT-20	120
??	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.			
Apr??	Falcon 9 FT	Dragon SpX-15	
Apr??	Soyuz-2 1A	Progress MS 9	
Apr??	Falcon 9 FT	Iridium Next Flight 7 (x10)	
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 9	Dragon v2 manned test	
May??	Ariane 5 ECA	GEO-KOMPSAT-2A	
May??	CZ-3B /YZ-1	Beidou 3 MEO M13, Beidou 3 MEO M14	
June??	CZ	L2 Chang'e 4 communications relay satellite	
June??	CZ-2C	Pakistani Remote Sensing Satellite (PRSS) 1	
?June??	Atlas 5 422	CST-100 Starliner (unmanned test)	
June??	Delta II 7320-10C	ICESat-II	
June??	Proton-M	MLM	
??	Proton-M	PTK NP	
??	Vega	TARANIS	
??	Soyuz-2 1B / Fregat -M	Glonass K1 / 15	
??	Soyuz ST	CSO 1	
??	Vega	Prisma	100
??	Vega	Cosmo-SkyMed Secon Gen 1	CSG-1
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)	
Aug??	CZ-3C	Beidou 2 I7	
??	Soyuz ST B/ Fregat -MT	OneWeb smalsat (x32)	
Sep30.	Soyuz-2 1A	Soyuz MS 10 (S57/58)	



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CDR: Геннадий Иванович **Падалка** (Padalka), **Бабкин** (Andrei Babkin), NASA probably Aunon

Sep?? [Atlas 5](#) 402 / [Falcon 9](#) v1.1 USCV-1 (US Commercial Vehicles)
 Sep?? [CZ-3B/YZ-1](#) Beidou 3 MEO M15, Beidou 3 MEO M16
 ?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x32)
 Oct15. [Ariane 5](#) ES JWST (James Webb Space Telescope)
 Oct16. [Soyuz-2](#) [Progress MS](#) 11
 Oct31. [Atlas 5](#) [Solar Orbiter](#) (SoIO) (ESA)
 Oct?? [Falcon 9](#) FT [Dragon](#) SpX-17
 Oct?? [Ariane 5](#) [BepiColombo](#) ESA and ISAS Mercury Orbiters
 Oct?? [Antares](#) 230 [Cygnus](#) Orb-10
 Oct?? [Soyuz ST](#) B/[Fregat](#)-M MetOp-C 80
 Oct?? [CZ-3C](#) Beidou 3 G1Q

?? [Proton-M](#)/ DM-03 [Glonass-M](#)/K16,K17,K18
 ?? [Ariane 5](#) ECA Intelsat 39
 ?? CZ-5 Tian He Space Station Core Module

Nov30. [Soyuz-2](#) 1A Soyuz MS 11 (S58/59)
 CDR: **Конonenko** (Oleg Kononenko), Serena Onnon, David Saint-Jaques (Can)

?? Minotaur 1 NROL 111
 ?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x32)
 ?? CZ7 TZ 2 Tianzhou 2 (Logistic Cargo Vehicle)

Nov?? SLS-1 Orion (unmanned trip around the Moon) Exploration Mission 1 (Distant Retrograde Orbit (DRO) Tactical DRM

Dec?? [CZ-3B/GIII](#) Chang'e-4 (Moon far side Aitken Basin lander/rover)
 Dec?? [Falcon 9](#) FT [Dragon](#) SpX-18
 Dec?? [Vega](#) CHEOPS
 Dec?? [Antares](#) 230 [Cygnus](#) OA-11
 Dec?? [Atlas 5](#) 402 / [Falcon 9](#) v1.1 USCV-2 (US Commercial Vehicles)
 Dec?? [CZ-3B/YZ-1](#) Beidou 3 MEO M17, Beidou 3 MEO M18

?? CZ-2F/G SZ-12 Shenzhou-12
 ?? Falcon H Circumlunar Dragon V2
 ?? [Soyuz-2-1B](#)/[Fregat](#)-M Glonass K2 / 14
 ?? [Ariane 5](#) Heinrich Hertz

?? [Falcon 9](#) v1.2 Radarsat Constellation Mission (x3) 60
 ?? [Falcon 9](#) v1.2 OHB SARah satellite (x2)
 ?? [Falcon 9](#) v1.2 WGS 10
 ?? Minotaur-4 FORMOSAT-7 (6 sat)
 ?? [Atlas 5](#) 551 AFSPC-7
 ?? ?? Landsat 9
 ?? ?? AEHF 5
 ?? [Falcon 9](#) FT Es'hail 2

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



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??	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	40
??	Proton-M/Briz-M	SkyTerra 2	
??	Proton-M/Briz-M	EutelSat 5 West B / MEV	
??	Proton-M/Briz-M	Elektro L - 3	
??	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	
??	??	MKA PN6 (Monika)	
??	??	Картограф-ОЭ №1	
??	Ariane 5 ES	Galileo-FOC FM19 (Tara), Galileo-FOC FM20 (Samuel), Galileo-FOC FM21 (Anna), Galileo-FOC FM22 (Ellen)	
??	Ariane 5 ECA	Intelsat 37e	
??	Ariane 5 ECA	Hellas-Sat-4	
??	Ariane 5 ECA	DSN 1 (Superbird-8)	
??	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	20
??	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	



Blog Gorana Hudeca

?? ?? Small Military Meteorological Satellite (x6)

?? CZ FY-3E Fengyun-3E
 ?? CZ FY-4B Fengyun-4B

?? [CZ-4B](#) [Haiyang-1C](#) HY-1C
 Launch site: [Taiyuan](#), China

?? CZ-4B HY-1D Haiyang-1D
 ?? CZ-4B HY-2B Haiyang-2B

?? [GSLV](#) MK II F12 GSAT-7A
 ?? [GSLV](#) MK II F10 GISAT
 ?? [PSLV](#) EnMap

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

2019.

Feb?? [CZ-3C](#) Beidou 3 I1Q
 Feb?? [Falcon 9](#) [GPS IIIA-3](#)

Mar30. [Soyuz-2](#) 1A [Soyuz MS](#) 12
 CDR: ??, **Кудь-Сверчков/Матвеев** (Serguei Kud'-Sverchkov/Denis Matveev), NASA

?? [Proton-M](#)/ DM3 3xGlonass K2 / K19, K20, K21

Apr?? ?? GOES-T
 Apr?? Epsilon SLIM (Smart Lander for Investigating Moon)
 Apr?? [CZ-3B/E](#) Nicasat 1
 Apr?? [CZ-3C](#) Beidou 3 I2Q

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

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

May?? [Falcon 9](#) FT [Dragon](#) SpX-19
 May?? [Atlas 5](#) 402 / [Falcon 9](#) v1.1 USCv-3 (US Commercial Vehicles)

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

June?? [Atlas 5](#) 401 STP-03
 June?? [Ariane 5](#) MTG-I1

?? [PSLV](#) RISAT 1A
 ?? [CZ-3B/G2](#) TECSTAR 1

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

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

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



Blog Gorana Hudeca

??	Falcon 9 FT	Dragon SpX-20
Oct??	Atlas 5 552	Dream Chaser Cargo System
Oct??	CZ-3B /YZ-1	Beidou 3 MEO M19, Beidou 3 MEO M20
Nov29.	Soyuz-2 1a / Fregat	Luna 25 (Luna-Glob-1)
??	Vega	Proba 3
Dec??	Atlas 5 402 / Falcon 9 v1.1	USCV-4 (US Commercial Vehicles)
Dec??	CZ-3B /YZ-1	Beidou 3 MEO M21, Beidou 3 MEO M22
??	Falcon 9 v1.1	Astrium active SARah satellite
??	Falcon 9	GPS IIIA-6
??	Falcon 9 v1.2	GPS IIIA-7
??	Falcon 9 v1.2	GPS IIIA-8
??	Delta IV -M+(4,2)/ Atlas 5 421	GPS IIIA-9/GPS IIIB-1
??	Delta IV -M+(4,2)/ Atlas 5 421	GPS IIIA-10/GPS IIIB-2
??	Atlas 5 551	Asteroid Retrieval Spacecraft (ARS)
??	??	EX-3
??	??	AEHF-6
??	Vega	Jason-CS A
??	Vega	EarthCare
??	Vega	OpSis
??	Vega	VNREDSat
??	Vega	LOTUSat
??	Ariane 5 ECA	Jabiru 2
??	Ariane 5	Arsat 3
??	Ariane 5 ECA	Jabiru-1
??	Soyuz-2	Progress MS 12
??	Soyuz-2	Progress MS 13
??	Proton-M / Briz-M	Elektro L - 5
??	Soyuz ST / Vega	MicroCarb
??	Soyuz ST B/ Fregat -MT	Sentinel-1C
??	Ariane 5	ViaSat-3
??	Ariane 5	JCSat 17
??	Soyuz-2 -1B/ Fregat -M	Glonass-M / 53
??	Soyuz-2 -1B/ Fregat	Glonass M/ 58
??	Soyuz-2 -1B/ Fregat	Glonass M / 59
??	Soyuz-2 -1B/ Fregat	Glonass M / 60
??	CZ	FY-3F Fengyun-3F (Batch 2)
??	CZ	FY-3 Fengyun-3 RM-2
??	CZ-4B	HY-2D Haiyang-2D
??	CZ	Sun Fixed-Point Observation
??	CZ	HY-3A Haiyang-3A
??	CZ-4B	HY-2C Haiyang-2C
??	PSLV XL	Aditya'



Blog Gorana Hudeca

2020.

July??	CZ-3C	Beidou 3 G2Q
Mar30.	Soyuz 2-1A	Sojuz MS-15
Mar??	Delta IV-M	DMSP-5D3 F20
Mar??	Soyuz-2-1B/Fregat-M	Glonass K1 / 22
Apr??	CZ-3B/YZ-1	Beidou 3 MEO M23, Beidou 3 MEO M24
??	CZ7	TZ 4 Tianzhou 4 (Logistic Cargo Vehicle)
??	CZ-2F/G	SZ-14 Shenzhou-14
??	CZ-3B/G2	ZX-18 Zhongxing-18
June??	Atlas 5 402 / Falcon 9 v1.1	USCV-5 (US Commercial Vehicles)
June??	Ariane	MTG-S1/Sentinel-4A
June??	CZ-3C	Beidou 3 G3Q
??	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
 Dec?? [Atlas 5](#) 402 / [Falcon 9](#) v1.1 USCV-6 (US Commercial Vehicles)

?? GSLV-Mk III. Dr B N Suresh and Mr Madan Lal, Vikram Sarabhai Space Centre (VSSC) presented the concept for the manned space mission including the development of an autonomous Orbital Vehicle (4,000kg manned capsule).

?? ?? SWOT
 ?? ?? PACE



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??	??	EX-4
??	??	ACE
??	??	HyspIRI
??	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)
??	CZ	HY-3B Haiyang-3B
2021.		
??	Soyuz-2	Progress MS 17
Mar30.	Soyuz-2 -1A	Sojuz MS-17
Apr??	Soyuz ST B/ Fregat M	MarcoPolo-R
May??	Proton-M / DM-03	Spektr - UF
June??	Atlas 5 402 / Falcon 9	USCV-7 (US Commercial Vehicles)
??	CZ7	TZ 5 Tianzhou 5 (Logistic Cargo Vechile)
??	Soyuz-2	Progress MS 18
??	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



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Oct??	Atlas 5 401/ Falcon 9 v1.1	JPSS Free Flyer 2 (TSIS-2)
Oct??	Angara A5P	Federatsia (unmaned)
Dec??	Atlas 5 402 / Falcon 9	USCV-8 (US Commercial Vehicles)
??	SLS Block I	Europa Clipper
??	Soyuz-2	Progress MS 19
??	Soyuz-2 -1B/ Fregat -M	Transformable Modul TM
??	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
??	Soyuz ST / Vega	Merlin
??	CZ	Venus Global Sensing Probe
??	CZ	FY-3G Fengyun-3G (Batch 2)
2022.		
Jan??	??	Solar Sentinals
Mar17.	CZ3	Asteroid rendezvous and touchdown Rendezvous with the asteroid Apophis on 18 March 2023, entering its orbit. After 220 days, the probe will depart and then proceed toward asteroid 2002EX11. Flyby is expected on 6 October 2025 at a 9.8 km/s speed. Third and final leg of its journey, the probe will make a rendezvous with asteroid 1996FG3 on 1 January 2027 and enter its orbit. After 180 days, the probe will eventually make landing on its surface on 30 June 2027.
Mar30.	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 5ECA	JUICE (JUperiter ICy moon Explorer)
June??	Ariane 5	MTG-I2
June??	Atlas 5 402 / Falcon 9	USCV-9 (US Commercial Vehicles)
??	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
Dec??	Atlas 5 402 / Falcon 9	USCV-10 (US Commercial Vehicles)
??	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
June??	Atlas 5 402 / Falcon 9	USCV-11 (US Commercial Vehicles)
Sep30.	Soyuz-2 -1A	Sojuz MS-22
Dec??	Atlas 5 402 / Falcon 9	USCV-12 (US Commercial Vehicles)
??	SLS Block IA II	Orion: Exploration Mission 3 (Crew to Cislunar)
??	Angara A5P	Federatsia (unmanned 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.	
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



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??	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
June??	Atlas 5 402 / Falcon 9	USCV-13 (US Commercial Vehicles)
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
??	??	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



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??	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.		
June??	Angara A5P/KVTK	A mission to Venus (Venera D) would be launched
??	CZ	Jupiter Orbiter
??	CZ	Mars Sample Return
??	CZ	Chang'e-8 (Moon north pole landing)