



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (15.05.2017.)

2017.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in red. Last change 15.May.2017.

May15. 2320UTC [Falcon 9](#) FT [Inmarsat 5 F4](#)
Launch site: [Cape Canaveral](#), USA

May18. 1154UTC [Soyuz ST A/Fregat](#)-MT (VS17) [SES 15](#)
Launch site: [Kourou](#), French Guiana

May25. 0633UTC [Soyuz-2-1B/ Fregat](#) [Tundra 2](#)
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

May?? [CZ-2C](#) ??
Launch site: [Xichang](#), China

June01. 0020UTC [H-2A 202 \(F34\)](#) [QSZ-2](#)
Launch site: [Tanegashima](#), Japan

June01. 2155UTC [Falcon 9](#) [Dragon](#) SpX-11 (CRS11)
Launch site: [Cape Canaveral](#), USA

June01. 2345UTC [Ariane 5 \(VA237\)](#) [ViaSat-2](#) / [Eutelsat 172B](#)
Launch site: [Kourou](#), French Guiana

June05. [GSLV MK III](#) D1 [GSAT-19E](#)
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

June13. [CZ-3B/G2](#) [ZX-9A Zhongxing-9A](#) 110

June14. 0920UTC [Soyuz-2 1A](#) [Progress MS 6](#)
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

June15. [Falcon 9 FT \(resused B1029\)](#) [BulgariaSat](#)
Launch site: [Cape Canaveral](#), USA

June28. 2145UTC [Ariane5](#) ECA (VA238) [EuropaSat \(HellasSat 3\)/GSAT-17](#) Launch site: [Kourou](#), French Guiana

June29. 2002UTC [Falcon 9](#) FT [Iridium Next](#) Flight 2 (x10)
Launch site: [Vandenberg](#), USA

June?? [Proton-M/Briz-M](#) [Blagovest \(14Φ149\)](#)



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

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

June??	CZ-3B/E	Alcomsat-1	
June??	LS-1	LandSpace-1	100
June??	CZ-5	SJ-18 (DFH5 bus)	
June??	CZ-2D	Shaonian Xing	

July14. 0636UTC [Soyuz-2 1A](#) / [Fregat M](#) [Kanopus V IK](#)
 Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

July15. 0500GMT [Minotaur-4/Orion 38](#) **ORS-5: SensorSat**

July15. [CZ-3B/YZ-1](#) [Beidou 3 M1& M2](#)
 Launch site: [Xichang](#), China

July22. [Falcon 9](#) FT **Formosat 5**

July25. [Vega](#) (VV10) **Venus, OPTSAT 3000**

July28. 1541UTC [Soyuz-2 1A](#) [Soyuz MS 5](#) (S52/53)
 CDR: Сергей Николаевич **РЯЗАНСКИЙ** (Sergei N. **Ryazansky**), Paolo **Nespoli** (ESA), Randolph J. **Bresnik**

July??	Falcon 9 FT	KoreaSat 5A	
July??	Proton-M/Briz-M	Amazonas 5	90
July??	Falcon 9 FT	SES 11	
July??	Falcon 9 FT	Intelsat 35e	

Aug01. [Falcon 9](#) FT [Dragon](#) SpX-12

Aug03. 1240UTC [Atlas 5](#) 401 (AV074) **TDRS-M**

Aug14. [Atlas 5](#) 541 **NROL-42 Trumpet Follow On 2**

Aug16. [CZ-2D](#) **ZH-1 Zengheng 1** (ESEM experimental satellite on Electromagnetism Monitoring), **Ministar-1**



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Aug24.	Falcon 9 FT	Iridium Next Flight 3 (x10)	
	Launch site: Vandenberg , USA		
Aug31.	Atlas 5 421 (AV075)	NROL-52 (Quasar 21)	
Aug??	CZ-2D	Fengmaniu-1	
Aug??	Pegasus-XL	ICON (Helio EX-1)	80
Aug??	Proton-M/Briz-M	Kosmos	
??	Epsilon (Jap)	ASNARO 2	
??	Ariane 5 ECA	Al Yah 3	
??	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		
Sep12.	Antares 230	Cygnus Orb-8	
Sep21.	0948UTC Delta II 7920-10C	JPSS-1	
Sep??	CZ-2D	VRSS-2 (Bolivia Remote Sensing Satellite)	
Sep??	CZ-3B/G2	ZX-6C Zhongxing-6C	
Sep??	CZ-2D	GF-5 Gaofen-5	70
Sep??	Zenit 3-SLB / DM-SLB	AngoSat	
Sep??	CZ-4B	FY-3D Feng Yun-3D	
Sep??	CZ-3B/YZ-1	Beidou 3 MEO M3, Beidou 3 MEO M4	
Sep??	GSLV MK II F11	GSAT-6A	
Sep??	Minotaur-C XL	SkySat 8/9/10/11/12	
Sep??	CZ-11	Fengtai Shaonian 02	
Sep??	Rokot / Briz KM	Sentinel-5 Precursor	
??	Rokot / Briz KM	Gonets x 3 (No 24,25,26), Blits-M	
	Launch site: Плесецк (Plesetsk) Cosmodrome, Russia		
??	Falcon 9 FT	SES-16	
??	Rokot / Briz KM	Geo IK 2	60
??	PSLV	IRNSS-1H	
Oct11.	Atlas 5 (531)	(AV073)	AEHF-4
Oct12.	Soyuz-2 1A	Progress MS 7	
Oct18.	Delta IV -M+(5,2)	NROL-47 (Topaz 5)	
Oct??	Falcon 9 FT	SAOCAM 1A	



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Oct??	Ariane 5	Hylas 4	
Oct??	CZ-11	TY-2, 3, 4, 5 Tianyi	
Oct??	Falcon 9 FT	Iridium Next Flight 4 (x10)	
Oct??	CZ-3B/YZ-1	Beidou 3 MEO M5, Beidou 3 MEO M6	
Oct??	Proton-M/Briz-M	AsiaSat-9	50
Oct??	Falcon H	Demo Flight	
Nov01.	Falcon 9 FT	Dragon SpX-13	
Nov09.	Atlas 5 401 (AV076)	SBIRS-GEO 4	
Nov??	Falcon 9	Dragon v2 unmanned test	
Nov??	Rokot / Briz KM	Sentinel 3B	
Nov??	CZ-5	Chang'e-5 (Sample return)	
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	
??	Proton-M/ DM 3	Electro-L N3	40
Dec16.	Falcon 9 FT	Bangabandhu-1	
Dec27.	Soyuz-2 1A Soyuz MS 7 (S54/55)		
CDR: Shkaplerov , Norishige Kanai , Scott Tingle			
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 3 G8	
Dec??	Ariane 5 ECA	GSAT-11	30
Dec??	Proton-M/ DM 3	Kosmos	
Dec??	Soyuz-2 1A / Fregat	Kanopus V 3, Kanopus V 4	
??	Falcon 9 FT	PSN VI	
??	Falcon 9 FT	PAZ	
??	Falcon Heavy	STP-02	
??	Soyuz-2-1V	Kosmos 14F150 (geodesy??)	
Launch site: Плесецк (Plesetsk) Cosmodrome, Russia			
??	Soyuz-2-1B/Fregat-M	Glonass-M/ 56	



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

??	Proton-M/ DM-03	Glonass-M/ ??	
??	Soyuz-2-1B	Labirint 11	
??	Zenit 3 SL /Fregat-SB	Lybid'	20
??	Soyuz-2-1B	Pion	
??	Angara 1.2	Kosmos	
??	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	
??	CZ	YG-32 Yaogan Weixing 32	10
??	CZ	Orbita-1 1	
??	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	
??	Simorgh	Dosti (Nahid 1??) (Payam-e Amir Kabir??)	

Launch site: [Semnan](#), Iran

5 + (23)
25 + (118)

2018.

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

??	Soyuz-2-1B/Fregat-M	Glonass-M/ 52
??	Falcon 9 FT	Telstar 18
??	Falcon 9 FT	Telstar 19



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Feb??	Falcon 9 FT	Dragon SpX-14	
Feb??	Soyuz-2 1A	Progress MS 8	140
Feb??	Falcon 9 FT	Iridium Next Flight 6 (x10)	
Feb??	CZ-3B/YZ-1	Beidou 3 MEO M9, Beidou 3 MEO M10	
Feb??	H-2B (F7)	HTV7	
??	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	
??	Ariane 5 ECA	EDRS-C (Hylas 3)	

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

Mar20. [Falcon 9](#) FT **TESS**

Mar30. [Soyuz-2](#) 1A [Soyuz MS 8](#) (S55/56)
CDR: **Artemyev**, Andrew **Feustel**, Ricky **Arnold**

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 5 551	AFSPC-11
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 55	
??	Delta IV-M+(4,2)	GPS III-1	
??	GSLV MK III D2	GSAT-20	
??	SS-520-5	TRICOM 1 R	120
??	KZ-1A	??	
??	KZ-1A	??	
??	KZ-1A	??	
??	KZ-1A	??	

?? [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??	Falcon 9 FT	Iridium Next Flight 7 (x10)



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May05. [Atlas 5 401](#) **InSight**

Launch site: [Vandenberg](#), USA

May30. [Soyuz-2 1A](#) [Soyuz MS 9 \(S56/57\)](#)

CDR: Prokopyev, 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??	Falcon 9 FT	Iridium Next Flight 8 (x5) , GRACE FO_1 , FO_2	
June??	Soyuz-2 1A	Progress MS 9	
??	Proton-M	PTK NP	100
??	Vega	TARANIS	
??	Soyuz-2 1B / Fregat-M	Glonass K1 / 15	
??	Soyuz ST	CSO 1	
??	Vega	Prisma	
??	Vega	Cosmo-SkyMed Secon Gen 1	CSG-1

July31. **Delta 4-H** **Solar Probe Plus**

July?? [PSLV](#) Oceansat-3
 July?? [Falcon 9](#) FT [Radarsat C-1, -2, C-3](#)

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
 Aug?? [Proton-M](#) MLM

?? [Soyuz ST](#) B/[Fregat-MT](#) OneWeb smalsat (x32)
 ?? [Soyuz-2](#) 1B / [Fregat-M](#) Glonass K1 / 16
 ?? [Soyuz-2](#) 1B / [Fregat-M](#) Ekspress-RV1

Sep15. **Delta 4-H** **NROL-71**

Sep30. [Soyuz-2 1A](#) [Soyuz MS 10 \(S57/58\)](#)

CDR: Ovchinin, Nick Hague

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 80



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?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x32)
 ?? [Soyuz-2](#) 1B /[Fregat](#)-M Glonass K1 / 17

Oct15. [Ariane](#) **5 ES **JWST (James Webb Space Telescope)****

Oct16. [Soyuz-2](#) [Progress MS](#) 11

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
 Oct?? [CZ-3C](#) Beidou 3 G1Q
 Oct?? [Soyuz-2](#) [Progress MS](#) 11

?? [Proton-M/](#) DM-03 [Glonass-M](#)/K18,K19,K20
 ?? [Ariane 5](#) ECA Intelsat 39
 ?? [Ariane 5](#) Horizon 3e
 ?? [Falcon 9](#) FT ORS-6
 ?? [Atlas 5](#) (541) GOES-S

Nov30. [Soyuz-2](#) 1A [Soyuz MS](#) 11 (S58/59)

CDR: Кононенко (Oleg Kononenko), Serena Auñón-Chancellor, David Saint-Jaques (Can)

?? Minotaur 1 NROL 111
 ?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x32)

Dec?? [CZ-3B/GIII](#) Chang'e-4 (Moon far side Aitken Basin lander/rover)
 Dec?? [Falcon 9](#) FT [Dragon](#) SpX-18 **60**
 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
 Dec?? [Soyuz-2](#) 1B /[Fregat](#)-M Resurs №4
 Dec?? ?? Korean Pathfinder Lunar Orbiter

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

?? [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
 ?? ?? AEHF 5
 ?? [Falcon 9](#) FT Es'hail 2
 ?? [Falcon 9](#) v1.2 Dragon v2
 ?? [Falcon H](#) Arabsat 6A



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??	Soyuz-2 1B	Progress M-UM	
??	Soyuz-2 1A / Fregat	Kanopus V 5, Kanopus V 6	
??	Proton-M/Briz-M	EutelSat 5 West B / MEV	
??	Proton-M/Briz-M	Kosmos	40
??	Proton-M/Briz-M	Elektro L - 3	
??	Soyuz-2 -1B	Arktika M 1	
Launch site: Восточный (Vostochniy), Cosmodrome, Russia			
??	Proton-M/Briz-M	Ямал-601	
??	Proton-M/Briz-M	Ямал-GK-1	
??	Proton-M/Briz-M	Ekspress 80, Ekspress 100	
??	Proton-M/Briz-M	EgyptSat 3	
??	Angara A5/ DM03	Kosmos	
??	Soyuz-2 -1B/ Fregat -M	Smotr R №1	
??	Soyuz-2 -1B/ Fregat M	Meridian 18L	
??	Soyuz-2 1A	Bars-M 3	
??	Soyuz-2 1A	Energiya-100	
??	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	
??	??	Small Military Meteorological Satellite (x6)	
??	CZ	FY-3E Fengyun-3E	



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

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2019.

- Feb?? [CZ-3C](#) Beidou 3 I1Q
Feb?? [Falcon 9](#) GPS IIIA-3
Feb?? H-2B (F9) HTV8
Feb?? [Atlas 5](#) [Solar Orbiter](#) (Solo) (ESA)

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
?? CZ-5 Tian He Space Station Core Module
- 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 2 Tianzhou 2 (Logistic Cargo Vehicle)
?? CZ-2F/G SZ-12 Shenzhou-12
- 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](#)



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



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??	??	Zond
??	??	MKA PN6 (Monika)
??	??	Картограф-0Э №1
??	Proton-M	НЭМ-1
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
??	CZ-5B	Wentian Lab module Space station module
??	CZ7	TZ 3 Tianzhou 3 (Logistic Cargo Vehicle)
??	CZ-2F/G	SZ-13 Shenzhou-13
??	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/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.

Sep30. **Soyuz 2-1A** **Sojuz MS-16**

Sep?? CZ CBERS-6
 Sep?? [Soyuz-2-1B/Fregat-M](#) Glonass K2 / 15



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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.

Dec15. [Atlas 5](#) **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
??	??	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



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?? 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 4 Tianzhou 4 (Logistic Cargo Vehicle)

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

?? CZ-2F/G SZ-14 Shenzhou-14

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)

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](#) 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



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??	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

??	CZ-5B	Xuntian Lab module	Space station module
??	CZ7	TZ 5 Tianzhou 5 (Logistic Cargo Vehicle)	
??	CZ-2F/G	SZ-15 Shenzhou-15	

June?? [Ariane 5](#)ECA JUICE (JUperiter ICy moon Explorer)

June?? Ariane 5 MTG-I2

June?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-9 (US Commercial Vehicles)

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



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??	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
??	CZ7	TZ 6 Tianzhou 6 (Logistic Cargo Vehicle)
??	CZ-2F/G	SZ-16 Shenzhou-16
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.	
??	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



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?? 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



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??	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.

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)