



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (21.08.2016.)

2017.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in red. Last change 21.Aug.2017.

Aug24. 1850UTC [Falcon 9 FT](#) [Formosat 5](#)

Launch site: [Vandenberg](#), USA

Aug26. 0315UTC [Minotaur-4/Orion 38](#)[ORS-5](#), [SensorSat](#)

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

Aug31. [PSLV-XL \(C39\)](#) [IRNSS-1H](#)

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

Sep05. 2151UTC [Ariane 5 ECA \(VA239\)](#) [BSat 4a](#) / [Intelsat 37e](#)

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

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Sep06. [Soyuz-2-1B/Fregat-M](#) [Glonass-M/ 52](#)

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

Sep06. [CZ-2D](#) [VRSS-2](#) (Bolivia Remote Sensing Satellite)

Sep07. [Falcon 9 FT](#) [OTV-5 \(X-37B\)](#)

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

Sep11. 0701UTC [Atlas 5 541](#) [NROL-42 Trumpet Follow On 2](#)

Launch site: [Vandenberg](#), USA

Sep12. 2117UTC [Soyuz-2 1A](#) [Soyuz MS 6 \(S53/54\)](#)

CDR: Александр Александрович [МИСУРКИН](#) (Aleksandr A. Misurkin), Mark T. [Vande Hei](#), Joseph M. [Acaba](#)

Sep15. [CZ-11](#) [TY-2, 3, 4, 5 Tianyi](#)

Sep18. [Proton-M/Briz-M](#) [Amazonas 5](#)

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

Sep25. 1600UTC [Atlas 5 421 \(AV075\)](#) [NROL-52 \(Quasar 21\)](#)

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

??Sep28. 1850UTC [Proton-M/Briz-M](#) [AsiaSat-9](#)

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

Sep30. 1330UTC [Falcon 9 FT](#) [Iridium Next Flight 3 \(x10\)](#)

Launch site: [Vandenberg](#), USA

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Sep?? [CZ-3B/YZ-1](#) [Beidou 3 M1& M2](#)

Launch site: [Xichang](#), China

Sep?? [CZ-2D](#) [ZH-1 Zengheng 1 \(ESEM experimental satellite on Electromagnetism Monitoring\)](#),
Ministar-1, Fengmaniu-1

Sep?? [GSLV MK II F11](#) [GSAT-10A](#)



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

Sep??	CZ-2D	GF-5 Gaofen-5
Sep??	CZ-4B	FY-3D Feng Yun-3D
Sep??	CZ-3B/YZ-1	Beidou 3 MEO M3, Beidou 3 MEO M4
Sep??	CZ-3B/G2	ZX-6C Zhongxing-6C

??	Rokot / Briz KM	Geo IK 2
??	Epsilon (Jap)	ASNARO 2

Oct09. [Rokot / Briz KM](#) **Sentinel-5 Precursor** 50

Oct12. [Soyuz-2 1A](#) [Progress MS 7](#)

Oct12. **Delta II 7920-10C** [JPSS-1](#)
Launch site: [Vandenberg](#), USA

Oct17. 2137UTC **Minotaur-C XL** **SkySat 8/9/10/11/12**
Launch site: [Vandenberg](#), USA

Oct?? [Electron](#) Outerspace 1
Launch site: [Kaitorete Spit](#), New Zeland

Oct?? [Falcon 9](#) FT SES 11
Launch site: [Cape Canaveral](#), USA

Oct?? [CZ-3B/YZ-1](#) [Beidou 3](#) MEO M5, [Beidou 3](#) MEO M6

??	Falcon 9 FT	KoreaSat 5A
??	Falcon 9 FT	SES-16

Nov08. 0100UTC [Vega](#) (VV11) **MN35-13 (Morocco EO Sat 1)**
Launch site: [Kourou](#), French Guiana

Nov10. [Antares 230](#) [Cygnus](#) Orb-8 40

Nov14. 1528UTC **Pegasus-XL** **ICON (Helio EX-1)**

Nov28. [Soyuz-2-1B/Fregat-M](#) **Meteor M-2-1, two MKA N, Ionosfera 1, Ionosfera 2**

Nov?? [Falcon 9](#) FT [Iridium Next](#) Flight 4 (x10)
Launch site: [Vandenberg](#), USA

Nov??	Zenit 3-SLB / DM-SLB	AngoSat
Nov??	PSLV XL (C40)	IRNSS-1I
Nov??	CZ-11	Jilin(x2), Fengtai Shaonian 02

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

Dec12. 1830UTC [Ariane 5](#) ES (VA240) [Galileo-FOC](#) FM15 (Nicole), [Galileo-FOC](#) FM16 (Zofia),
[Galileo-FOC](#) FM17 (Alexandre), [Galileo-FOC](#) FM18 (Irina)
Launch site: [Kourou](#), French Guiana

Dec13. [Delta IV-M+\(5,2\)](#) **NROL-47 (Topaz 5)**
Launch site: [Vandenberg](#), USA



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Dec16.	Falcon 9 FT	Bangabandhu-1	30
Dec22.	Soyuz-2 1A / Fregat Kanopus V 3, Kanopus V 4		
Dec27.	Soyuz-2 1A	Soyuz MS 7 (S54/55)	
	CDR: Shkapterov , Norishige Kanai , Scott Tingle		
??Dec28.	PSLV	Team Indus	
Dec??	CZ-2D	GJ-3 GaoJing-3, GJ-4 GaoJing-4	
Dec??	CZ-3B /YZ-1	Beidou 3 MEO M7, Beidou 3 MEO M8	
Dec??	CZ-3C	Beidou 3 G8	
Dec??	Falcon H	Demo Flight	
Dec??	Falcon 9 FT	Dragon SpX-13	
??	Falcon 9 FT	PAZ	
??	Soyuz-2-1B	Labirint 11	20
??	Soyuz-2-1B	Pion	
??	Angara 1.2	Kosmos	
??	Proton-M/Briz-M	Blagovest 12	
??	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	
??	CZ	Orbita-1 1	
??	CZ-2D	SaudiSAT 5B	10
??	??	LJ-1 Luojia-1	
??	CZ	Huaizong-1	
??	CZ-4C	Hede-1	
??	CZ-3B/E	Alcomsat-1	
??	LS-1	LandSpace-1	
??	CZ-2C	??	
	Launch site: Xichang , China		
??	CZ-6	Jilin-1-04 (Lingqiao 1-04), Jilin-1-05 (Lingqiao 1-05), Jilin-1-06 (Lingqiao 1-06), Jilin-1-07 (Lingqiao 1-07)	
??	H-2A	IGS Optical-6	
??	Simorgh	Dosti	(Nahid 1??) (Payam-e Amir Kabir??)
	Launch site: Semnan , Iran		
	11 + (11)		
	51 + (74)		

2018.

Jan18. [Atlas 5](#) 401 (AV076) **SBIRS-GEO 4**



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Jan20.	Vega (VV11)	Aeolus / ADM
??	Falcon 9 FT	Iridium Next Flight 5 (x10)
	Launch site: Vandenberg , USA	
??	Soyuz-2-1B/Fregat-M	Glonass-M/ 52
??	Falcon 9 FT	Telstar 18
??	Falcon 9 FT	Telstar 19
??	PSLV	ScatSat
Feb09.	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
Feb??	H-2B (F7)	HTV7
Feb??	Falcon 9 FT	Dragon SpX-14 140
??	Soyuz-2-1B/Fregat-M	Meteor M-2-2, Ionosfera 3, Ionosfera 4
??	Soyuz ST B/Fregat-MT	O3b
??	Zenit 3 SL /Fregat-SB	Lybid'
Mar01.	Atlas 5 (541)	GOES-S
Mar09.	Falcon 9 (SPx-DM1)	Dragon v2 unmanned test
Mar09.	Soyuz-2 1A	Soyuz MS 8 (S55/56)
	CDR: Artemyev , Andrew Feustel , Ricky Arnold	
Mar15.	CZ-3B/GII	APStar-6C
Mar19.	Antares 230	Cygnum Orb-9E
Mar??	GSLV Mk II D9	Chandrayaan 2
	India's second mission to the moon called <i>Chandrayaan - II</i> 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.	
Mar??	PSLV	Cartosat-3
Mar??	CZ-3B/YZ-1	Beidou 3 MEO M11, Beidou 3 MEO M12
Mar??	Rokot / Briz KM	Sentinel 3B
Mar??	Falcon 9 FT	SAOCAM 1A
??	GSLV MK III D2	GSAT-20
??	SS-520-5	TRICOM 1 R
??	KZ-1A	??
??	KZ-1A	??
??	KZ-1A	??
??	KZ-1A	??
??	Ariane 5 ECA	Hellas-Sat-4 120
??	Falcon 9 FT	SES-14 / GOLD
??	Ariane 5 ECA	Hylas 4 / Al Yah 3
??	Ariane 5 ECA	Azerspace 2 (Intelsat 38) / SES 12
??	Ariane 5 ECA	GSAT-11
??	Proton-M/ DM 3	Kosmos
Apr18.	Atlas 5 551 (AV81)	AFSPC-11



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Apr27. [Soyuz-2 1A](#) [Soyuz MS 9 \(S56/57\)](#)

CDR: Prokopyev, Jeanette J. Epps, Alexander Gerst

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

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

Launch site: [Vandenberg](#), USA

May?? [Ariane 5](#) ECA GEO-KOMPSAT-2A
 May?? [CZ-3B](#)/YZ-1 Beidou 3 MEO M13, Beidou 3 MEO M14

June27. [Soyuz-2 1A](#) [Progress MS 9](#)

June?? CZ L2 Chang'e 4 communications relay satellite
 June?? CZ-2C Pakistani Remote Sensing Satellite (PRSS) 1
 June?? [Falcon 9](#) FT [Iridium Next](#) Flight 8 (x5), GRACE FO_1, FO_2
 June?? [Falcon 9](#) FT TESS
 June?? [Atlas 5](#) 422 (AV80) CST-100 Starliner (unmanned test)

?? [Proton-M](#) PTK NP
 ?? [Vega](#) TARANIS
 ?? [Soyuz ST](#) CSO 1 100
 ?? [Vega](#) Prisma
 ?? [Proton-M/Briz-M](#) Kosmos
 ?? [Proton-M](#)/ DM-03 [Glonass-M](#)/ ??
 ?? [Soyuz ST](#) B/Fregat-MT OneWeb smalsat (x10)
 ?? [Angara](#) A5/ [Briz-M](#) Kosmos

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

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

Aug?? [CZ-3C](#) Beidou 2 I7
 Aug?? [Soyuz-2](#) [Progress MS](#) 10
 Aug?? [Delta IV](#)-M+(4,2) GPS III-1

?? [Soyuz ST](#) B/Fregat-MT OneWeb smalsat (x32)
 ?? [Soyuz-2](#) 1B /[Fregat](#)-M Glonass K1 / 16
 ?? [Soyuz-2](#) 1B /[Fregat](#)-M Ekspress-RV1
 ?? [Falcon 9](#) FT PSN VI
 ?? [Atlas 5](#) (531) (AV073) AEHF-4

Sep12. **Delta II 7320-10C** **ICESat-II**

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

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

CDR: Алексей Овчинин (Aleksei Ovchinin), Nick Hague, Ricky Arnold

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.



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Sep??	CZ-3B/YZ-1	Beidou 3 MEO M15, Beidou 3 MEO M16
Sep??	Ariane 5 ECA	DSN 1 (Superbird-8)
??	Soyuz-2 1B / Fregat -M	Glonass K1 / 17
??	Ariane 5 ECA	EDRS-C (Hylas 3)
??	Ariane 5 ECA	Intelsat 7C
??	Falcon 9	GPS IIIA-2
Oct05.	Ariane 5	BepiColombo ESA and ISAS Mercury Orbiters
Oct15.	Ariane 5 ES	JWST (James Webb Space Telescope)
Oct16.	Soyuz-2	Progress MS 11
Oct??	Soyuz ST B/ Fregat -M	MetOp-C
Oct??	CZ-3C	Beidou 3 G1Q
Oct??	Proton-M/Briz-M	Elektro L - 3
??	Proton-M/ DM-03	Glonass-M /K18,K19,K20
??	Ariane 5 ECA	Intelsat 39
??	Ariane 5	Horizon 3e
??	Falcon 9 FT	ORS-6
Nov25.	Proton-M	MLM
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) 60
??	Soyuz-2 1B / Fregat -M	Glonass K1 / 15
Dec??	CZ-3B/GIII	Chang'e-4 (Moon far side Aitken Basin lander/rover)
Dec??	CZ-3B/YZ-1	Beidou 3 MEO M17, Beidou 3 MEO M18
Dec??	Soyuz-2 1B / Fregat -M	Resurs N°4
Dec??	??	Korean Pathfinder Lunar Orbiter
??	Falcon 9 (SPx-DM2)	Dragon v2 manned test
??	Atlas 5 422 (AV082)	CST-100 Starliner (manned test)
??	Falcon H	Circumlunar Dragon V2
??	Falcon 9 FT	Dragon SpX-15
??	Antares 230	Cygnus Orb-10E
??	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 H	Arabsat 6A
??	Falcon Heavy	STP-02



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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	
??	Proton-M/Briz-M	Ямал-601	
??	Proton-M/Briz-M	Ямал-GK-1	
??	Proton-M/Briz-M	EgyptSat 3	
??	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	
??	Soyuz-2-1B/ Fregat-M	Glonass M 55	
??	Dnepr	UniSat-7	
Launch site: (Dombrovskiy), Russia			
??	Ariane 5 ES	Galileo-FOC FM19 (Tara) , Galileo-FOC FM20 (Samuel) , Galileo-FOC FM21 (Anna) , Galileo-FOC FM22 (Ellen)	
??	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-3B/E	CC-1 Changcheng-1	20
??	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	
??	CZ-4B	Haiyang-1C	HY-1C
Launch site: Taiyuan , China			
??	CZ-??	CAS-4A , CAS-4B	
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	



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?? Safir 3A Pars sepher

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

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2019.

Jan?? [Atlas 5](#) 531 [Cygnus](#) OA-11

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

?? [Soyuz-2-1B](#) Arktika M 1
Launch site: Восточный (Vostochniy), Cosmodrome, Russia

Mar30. [Soyuz-2 1A](#) [Soyuz MS 12](#)
CDR: **Vinogradov, Tikhonov, Shannon Walker**

Mar?? [Soyuz-2](#) [Progress MS 12](#)
Mar?? [Vega](#) Seosat (Ingenio)
Mar?? [Ariane 5](#) ECA GEO-KOMPSAT-2B , Cheollian 2B

?? CZ-5 Tian He Space Station Core Module
?? [Soyuz ST B/Fregat-MT](#) OneWeb smalsat (x32)
?? [Soyuz-2-1B/Fregat](#) Glonass K2 / 13

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)

June?? [Atlas 5](#) 551 STP-03
June?? [Ariane 5](#) MTG-I1

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

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

Aug?? [Soyuz ST B/Fregat-MT](#) EarthCare

Sep30. [Soyuz-2 1A](#) [Soyuz MS 13](#)
CDR: ??, Luca **Parmitano** (ESA) , Anne **McClain** (NASA)

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

Oct?? [CZ-3B/YZ-1](#) Beidou 3 MEO M19, Beidou 3 MEO M20
Oct?? [Soyuz-2 1B /Fregat-M](#) [Gonets](#) x 3 (No 27,28,29)
Oct?? [Soyuz-2 1B /Fregat-M](#) Resurs N°5



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Nov29.	Soyuz-2 1a / Fregat	Luna 25 (Luna-Glob-1)
Nov?? Orbit (DRO) Tactical DRM	SLS-1	Orion (unmanned trip around the Moon) Exploration Mission 1 (Distant Retrograde)
??	Vega	Proba 3
Dec??	CZ-3B/YZ-1	Beidou 3 MEO M21, Beidou 3 MEO M22
Dec??	Proton-M/Briz-M	Ekspress 80, Ekspress 103
Dec??	Proton-M/Briz-M	Elektro L - 4
??	Falcon 9 v1.1	USCV-1 (US Commercial Vehicles)
??	Atlas 5 402	USCV-2 (US Commercial Vehicles)
??	Falcon 9 FT	Dragon SpX-16
??	Falcon 9 FT	Dragon SpX-17
??	Falcon 9 FT	Dragon SpX-18
??	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
??	Vega	Cosmo-SkyMed Secon Gen 1 CSG-1
??	Ariane 5 ECA	Jabiru 2
??	Ariane 5	Arsat 3
??	Ariane 5 ECA	Jabiru-1
??	Ariane 5 ECA	Eutelsat Quantum
??	Ariane 5 ECA	African Broadband Satellite
??	Soyuz ST / Vega	MicroCarb
??	Soyuz ST B/ Fregat -MT	Sentinel-1C
??	Ariane 5	ViaSat-3
??	Ariane 5	JCSat 17
??	Soyuz-2	Progress MS 13
??	Soyuz-2-1A/Fregat -M	Kondor-FKA n.º 1
??	Soyuz-2-1B/Fregat -M	Arktika M 2
??	Proton-M/Briz-M	SkyTerra 2
??	Proton-M/Briz-M	Ekspress AMU 4
??	Proton-M/Briz-M	Ekspress AMU 3 / Ekspress AMU 7
??	Proton-M/Briz-M	Luch 5M



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??	Proton-M/Briz-M	Yenisey A1
??	Proton-M/Briz-M	Ямал-501
??	Proton-M/Briz-M	EutelSat
??	Proton-M/Briz-M	IntelSat
??	Soyuz-2-1B/Fregat M	Meridian 19L
??	Soyuz-2-	Razdan 1
??	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-5	Chang'e-5 (Sample return)
??	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'
2020.		
Jan??	Falcon 9 v1.1	USCV-3 (US Commercial Vehicles)
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
Apr??	Angara-1.2/AM	Gonets x 3 (No 30,31,32)
??	CZ-5B	Wentian Lab module Space station module
??	CZ-2F/G	SZ-12 Shenzhou-12
??	CZ-3B/G2	ZX-18 Zhongxing-18
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)
July16	Ariane 64	??

July?? [Atlas 5](#) (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.



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July?? [CZ-3C](#) Beidou 3 G2Q

?? 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

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

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**

?? 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
??	Atlas 5 402	USCV-4 (US Commercial Vehicles)
??	Falcon 9 FT	Dragon SpX-19
??	Falcon 9 FT	Dragon SpX-20
??	Falcon 9 FT	Dragon SpX-21
??	Antares 230	Cygnus OA-12
??	Atlas 5 552	Dream Chaser Cargo System SNC-1
??	Falcon H	ViaSat 3
??	Proton-M	H3M-1
??	Soyuz-2	Progress MS 14
??	Soyuz-2	Progress MS 15
??	Soyuz-2	Progress MS 16
??	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
??	Proton-M/Briz-M	Elektro L - 5
??	Soyuz-2-1A/Fregat-M	Gonets x 6



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?? [Proton-M/Briz-M](#) AOneSat-1
 ?? [Proton-M/Briz-M](#) Terrestar-2
 ?? [Proton-M/Briz-M](#) SkyTerra 2

?? [Soyuz-2-1A/Fregat](#) Resonance 1A, Resonance 1B
 RESONANCE is a project to study Earth's magnetosphere consisting of four similar satellites.

?? [Soyuz-2-1B](#) Lotos S1
 ?? [Soyuz-2-1B](#) Persona
 ?? [Soyuz-2-1A](#) Kobalt M
 ?? [Soyuz-2-1A](#) Foton M

?? ?? Zond
 ?? ?? MKA PN6 (Monika)
 ?? ?? Картограф-ОЭ №1

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

?? CZ5 Chang'e-6
 ?? CZ Two Meter Space Telescope
 ?? CZ FY-4C Fengyun-4C
 ?? CZ HY-3B Haiyang-3B
 ?? [CZ-3B/](#) Palapa 1N

?? [GSLV](#) MK III MOM-2 Follow on Mars Mission

?? H-IIA [Hope](#) (UAE mission to Mars)

2021.

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

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

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

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

?? CZ7 TZ 3 Tianzhou 3 (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?? Sunkar Federatsia (unmanned)



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Dec??	Atlas 5 402 / Falcon 9	USCV-6 (US Commercial Vehicles)
??	Atlas 5 552	Dream Chaser Cargo System SNC-2
??	SLS Block I	Europa Clipper
??	Soyuz-2	Progress MS 19
??	Soyuz-2 -1B/ Fregat -M	Transformable Modul TM
??	Soyuz-2 1a / Fregat	Luna 26 (Luna-Resurs OA)
??	Soyuz-2 1B / Fregat -M	Ekspress-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
??	Soyuz-2 -1b	Bion-M No. 2
??	Vega	Sentinel-1A 2nd Gen
??	Vega	Space Rider
??	Soyuz ST / Vega	Merlin
??	CZ	Venus Global Sensing Probe
??	CZ	FY-3G Fengyun-3G (Batch 2)

2022.

Jan?? ?? Solar Sentinels

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 4 Tianzhou 4 (Logistic Cargo Vehicle)
 ?? CZ-5B Xuntian Lab module Space station module
 ?? 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-7 (US Commercial Vehicles)

Aug?? H2B Phobos sample return

Sep30. [Soyuz-2-1A](#) [Sojuz MS-20](#)

Sep?? [Soyuz ST](#) B/[Fregat](#)-MT MetOp-SG B1



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Dec?? [Atlas 5](#) 402 / [Falcon 9](#) USCVC-8 (US Commercial Vehicles)

?? [Soyuz-2](#) [Progress MS](#) 20
 ?? [Soyuz-2](#) [Progress MS](#) 21
 ?? [Soyuz-2](#) [Progress MS](#) 22

?? [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 – AMU 5
 ?? [Proton-M/Briz-M](#) Ekspres – AMU 6
 ?? [Proton-M/Briz-M](#) Ekspres – 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**

?? CZ7 TZ 5 Tianzhou 5 (Logistic Cargo Vehicle)
 ?? CZ-2F/G SZ-16 Shenzhou-16

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

Sep30. [Soyuz-2-1A](#) **Sojuz MS-22**

Dec?? [Atlas 5](#) 402 / [Falcon 9](#) USCVC-10 (US Commercial Vehicles)

?? SLS Block IA II Orion: Exploration Mission 3 (Crew to Cislunar)

?? Sunkar Federatsia (unmanned flight to ISS)
 ?? Sunkar 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](#) Ekspres – AT3, AT4
 ?? [Soyuz-2-1B/Fregat-M](#) Resurs PM - 3
 ?? [Angara](#) 1.2 [Gonets](#) x 3
 ?? [Soyuz-2-1B](#) Obzor R -2
 ?? [Soyuz-2-1B](#) Obzor O -1
 ?? [Soyuz-2-1B/Fregat-M](#) Ellips - 1
 ?? [Angara](#) A5P/DM03 Dopler 1, 2



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??	Vega	Sentinel-2A 2nd Gen
??	CZ	SPORT (Solar Polar Orbit Radio Telescope)
??	CZ	FY-4D Fengyun-4D
??	GSLV MK III	Mission to Venus

2024

Mar30. [Soyuz-2-1A](#) **Sojuz MS-23**

??	CZ7	TZ 6 Tianzhou 6 (Logistic Cargo Vehicle)
June??	Atlas 5 402 / Falcon 9	USCV-11 (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 / DM-03	Spektr - UF
??	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



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??	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 N°2
??	CZ	Chang'e-7 (Moon south pole landing)

2026.

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