



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (15.01.2018.)

2018.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in red. Last change 15.Jan.2018.

Jan16. 2100UTC [Epsilon \(3\)](#) [ASNARO 2](#)
Launch site: [Tanegashima](#), Japan

Jan19. 0040UTC [Atlas 5 401 \(AV076\)](#) [SBIRS-GEO 4](#)
Launch site: [Cape Canaveral](#), USA

Jan19. [CZ-11](#) TY-2, 3, 4, 5 [Tianyi](#) Jilin-1-04 (Lingqiao 1-04), Jilin-1-05 (Lingqiao 1-05), Jilin-1-06 (Lingqiao 1-06), Jilin-1-07 (Deqing-1), Jilin-1-08, Quantutong-1 (QTT-1), Kepler (CubeSat-3U)
Launch site: [Jiuquan](#), China 180

Jan20. 0130UTC [Electron](#) [Still Testing](#)
Launch site: [Kaitorete Spit](#), New Zeland

Jan25. 2220UTC [Ariane 5 ECA \(VA241\)](#) [Al Yah 3 / SES 14 GOLD](#)
Launch site: [Kourou](#), French Guiana

Jan25. [Falcon H](#) Demo Flight
Launch site: [Cape Canaveral](#), USA

Jan26. [CZ-2C](#) YG-30 - 4 [Yaogan Weixing 30 - 4](#)
Launch site: [Xichang](#), China

Jan30. 2123UTC [Falcon 9](#) [SES-16](#)
Launch site: [Cape Canaveral](#), USA

Jan31. 0330UTC [SS-520-4](#) [Tricom-1R](#)
Launch site: [Tanegashima](#), Japan

Feb01. 0207UTC [Soyuz-2 1A / Fregat Kanopus V 3, Kanopus V 4](#)
Launch site: Восточный ([Vostochniy](#)) Cosmodrome, Russia

Feb02. [CZ-2D](#) ZH-1 Zengheng 1 ([ESEM experimental satellite on Electromagnetism Monitoring](#)), [Ministar-1](#), [Fengmaniu-1](#), GomX-4B, GomX-4A

Feb10. [Falcon 9 FT](#) [PAZ](#)
Launch site: [Vandenberg](#), USA

Feb11. 0858UTC [Soyuz-2 1A](#) [Progress MS 8](#)
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

Feb15. [CZ-3B/YZ-1](#) [Beidou 3 MEO M5, Beidou 3 MEO M6](#)
Launch site: [Xichang](#), China

Feb20. CZ Taurus-1

Feb25. 0400UTC [H-2A](#) [IGS Optical-6](#)
Launch site: [Tanegashima](#), Japan



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Feb28. 1528UTC Pegasus-XL ICON (Helio EX-1)

Launch site: [Kwajalein Atoll](#), USA

Feb28. Soyuz-2-1V Kosmos EMKA

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

?? [Falcon 9](#) Hispasat 30W-6 (1F)

Mar01. 2202UTC Atlas 5 (541) GOES-S

Mar01. Soyuz ST B/Fregat-MT (VS18) O3b

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

Mar13. Falcon 9 FT Dragon SpX-14

Mar15. Soyuz-2 1A Soyuz MS 8 (S55/56)

CDR: Олег Германович Артемьев (Oleg G. Artemyev), Andrew J. Feustel, Ricky R. Arnold

Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan 160

Mar15. CZ-3B/GII APStar-6C

Mar15. Proton-M/Briz-M Blagovest 12

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

Mar16. Ariane 5 ECA (VA242) Hylas 4, DSN 1 (Superbird-8)

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

??**Mar20. Falcon 9 TESS**

Mar?? [CZ-2C](#) Pakistani Remote Sensing Satellite (PRSS) 1

Mar?? [Falcon 9](#) FT Bangabandhu-1

Mar?? LS-1 LandSpace-1 (China)

Mar?? [Soyuz-2](#) 1B /[Fregat](#)-M Glonass K1 / 16

Mar?? [Falcon 9](#) FT SES-12

?? [Falcon 9](#) FT [Iridium Next](#) Flight 5 (x10)

Launch site: [Vandenberg](#), USA

?? KZ-1A ??

?? KZ-1A ??

?? KZ-1A ??

?? KZ-1A ??

?? [Proton-M](#)/ DM 3 Kosmos

?? [GSLV](#) Mk II F8 GSAT 6A

?? [PSLV](#) XL (C41) IRNSS I

Apr06. Rokot / Briz KM Sentinel 3B

Apr12. Atlas 5 551 (AV81) AFSPC-11

Apr14. Falcon 9 Iridium Next Flight 6 (x5), GRACE FO_1, FO_2

Launch site: [Vandenberg](#), USA 140

Apr?? [GSLV](#) Mk II D9 Chandrayaan 2

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



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Apr??	H-2A	GOSAT-2
Apr??	CZ-4B	GF-5 Gaofen-5
Apr??	Soyuz-2-1B/Fregat	Glonass K2
??	Falcon 9	Telstar 18
??	Falcon 9	Telstar 19
May01.	Antares 230	Cygnum Orb-9E
May01.	Vega (VV12)	Aeolus / ADM
May05.	Atlas 5 401	InSight
Launch site: Vandenberg , USA		
May??	Falcon 9	GPS III-1
May??	Soyuz-2-1B/ Fregat-M	Glonass M
??	Falcon 9 FT	Iridium Next Flight 7 (x10)
??	CZ-3B/YZ-1	Beidou 3 MEO M7, Beidou 3 MEO M8
??	CZ-3B/E	SupremeSAT-II
??	Falcon 9	Spaceflight SSO-A
??	Falcon 9 FT	Telkom 4
June06.	Falcon 9 FT	Dragon SpX-15
June06.	Soyuz-2 1A Soyuz MS 9 (S56/57)	
CDR: Сергей Валерьевич Прокопьев (Sergei Valerevich Прокопьев), Jeanette J. Epps, Alexander Gerst		
June30.	Falcon 9	SAOCAM-1A, ITASAT-1
June??	Rokot / Briz KM	Gonets x 3 (No 24,25,26), Blits-M
Launch site: Плесецк (Plesetsk) Cosmodrome, Russia 120		
June??	Rokot / Briz KMGeo IK 2	
Launch site: Плесецк (Plesetsk) Cosmodrome, Russia		
June??	CZ-3B/G2	L2 Chang'e 4 communications relay satellite
June??	??	Tianzhi-1
June??	CZ-7	New generation manned spacecraft
June??	Soyuz-2 1B /Fregat-M	Glonass K1
??	Vega	TARANIS
??	Vega	Prisma
??	Ariane 5 ECA	GSAT-11
??	GSLV MK III D2	GSAT-29
??	Ariane 5 ECA	Azerspace 2 (Intelsat 38)
??	KZ-11	Xiaoxiang-4
??	Falcon 9 FT	Es'hail 2
??	Falcon Heavy	STP-02
July10.	Soyuz-2 1A	Progress MS 9
July31.	Delta 4-H	Parker Solar Probe
July??	PSLV	Cartosat-3



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July??	Ariane 5 ES	Galileo-FOC FM19 (Tara), Galileo-FOC FM20 (Samuel), Galileo-FOC FM21	
(Anna),	Galileo-FOC FM22 (Ellen)		
July??	Soyuz-2-1B/Fregat-M	Glonass-M	
July??	Soyuz-2 1A	Bars-M 3	
??	Falcon H	Arabsat 6A	100
??	Falcon 9	PSN VI	
??	CZ-3B/YZ-1	Beidou 3 MEO M9, Beidou 3 MEO M10	
??	Ariane 5 ECA	GEO-KOMPSAT-2A	
??	Falcon 9	Iridium Next Flight 8 (x10)	
Aug16.	H-2B (F7)	HTV7	
Aug19.	Soyuz ST B/Fregat-MT	OneWeb smalsat (x32)	
Aug27.	Atlas 5 N22 (AV80)	CST-100 Starliner (unmanned test)	
Aug27.	Falcon 9 (SPx-DM1)	Dragon v2 unmanned test	
Aug??	CZ-3C	Beidou 2 I7	
Aug??	CZ-2C	CFOSAT (China-France Oceanography SATellite)	
Aug??	CZ-11	OKW-2	
Aug??	Soyuz-2 1B / Fregat-M	Glonass M	
Aug??	Soyuz-2 1A	Energiya-100	
Aug??	Proton-M/ DM-03	Glonass-M	
Sep12.	Delta II 7320-10C	ICESat-II	
Sep14.	Soyuz-2 1A	Soyuz MS 10 (S57/58)	
CDR:	Алексей Николаевич Овчинин (Aleksei Nikolaevich Ovchinin), Николай Владимирович Тихонов (Nikolai Vladimirovich Tikhonov), Tyler Hague		
Sep15.	Delta 4-H	NROL-71	
Sep??	CZ-3B/YZ-1	Beidou 3 MEO M15, Beidou 3 MEO M16	
Sep??	Proton-M/ DM-03	Glonass K	
Sep??	Soyuz-2-1B	Arktika	80
??	Ariane 5 ECA	EDRS-C (Hylas 3)	
??	Ariane 5 ECA	Intelsat 7C	
??	Falcon 9	Radarsat C-1, -2, C-3	
??	Falcon 9	OHB SARah satellite (x2)	
??	CZ-5 Y3	SJ-18 02	
??	Ariane 5 ECA	Hellas-Sat-4	
Oct05.	Ariane 5	BepiColombo ESA and ISAS Mercury Orbiters	
Oct11.	Soyuz-2	Progress MS 10	
Oct18.	Atlas 5 (531) (AV073)	AEHF-4	
Oct??	CZ-3C	Beidou 3 G1Q	
Oct??	Soyuz-2 1B / Fregat-M	Glonass M	
Oct??	Soyuz-2 1A / Fregat	Kanopus V 5, Kanopus V 6	
??	Ariane 5 ECA	Intelsat 39	
??	Ariane 5	Horizon 3e	



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Nov01.	Delta IV-M (5,4)	WGS 10
Nov08.	Antares 230	Cygnum Orb-10E
Nov15.	Soyuz-2 1A Soyuz MS 11 (S58/59)	
CDR:	Олэг Дмїтриевич Кононєнко (Oleg Dmitrievich Kononenko), Serena Auñón-Chancellor , David Saint-Jaques	
Nov16.	Falcon 9 FT	Dragon SpX-16
Nov??	Atlas 5 422 (AV082)	CST-100 Starliner
CDR:	Douglas Hurley , Robert Behnken	
Nov??	Soyuz-2 1B /Fregat-M	Resurs №4 60
Nov??	Soyuz-2-1B/Fregat-M	Meteor M-2-2, Ionosfera 3, Ionosfera 4
Nov??	Soyuz-2-1B/Fregat-M	Kondor-FKA n.º 1
Nov??	Proton-M/Briz-M	Ekspress AMU 3 / Ekspress AMU 7
??	Epsilon (4)	Inovative Technology Demonstration Satellite – 1, OrigamiSat-1
Launch site: Tanegashima , Japan		
??	Minotaur 1	NROL 111
??	Falcon 9	Spaceflight GTO.C
??	CZ-2D	GF-7 Gaofen-7
??	CZ-3B/E	Apstar-6D
Dec20.	Proton-M	MLM
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??	??	Korean Pathfinder Lunar Orbiter
Dec??	Soyuz ST B/Fregat-MT	CHEOPS (Characterising ExOPlanet Satellite)
Dec??	Soyuz ST B/Fregat-M	MetOp-C
Dec??	Proton-M/Briz-M	Elektro L – 3
Dec??	Proton-M/Briz-M	EutelSat 5 West B / MEV
Dec??	Proton-M/Briz-M	Ямал-601
Dec??	Soyuz ST B/Fregat-MT	OneWeb smalsat (x10)
Dec??	Soyuz-2-1B/ Fregat-M	Glonass K
Dec??	Soyuz-2-1B/ Fregat-M	Glonass K2 40
??	Ariane 5	Heinrich Hertz
??	Minotaur-4	FORMOSAT-7 (6 sat)
??	Atlas 5	AEHF 5
??	Vega	MN35-13 B Morocco EO Sat 1 2
??	CZ-3B/YZ-1	Beidou 3 MEO M11, Beidou 3 MEO M12
??	CZ-3B/YZ-1	Beidou 3 MEO M13, Beidou 3 MEO M14
??	CZ-2D	SJ-12 Shijian-12 (2)
??	CZ-2D	TH-2 Tianhui-2
??	CZ-2C	CSES-1 Earthquake electromagnetism monitor satellite
??	??	VeneSat-2
??	CZ-3B/E	CC-1 Changcheng-1



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??	CZ	CBERS-SAR 1	
??	CZ	Deep Space Solar Observatory	
??	CZ	CBERS-4B	
??	CZ-2	CAS-2A1, CAS-2A2	
??	CZ-3B/E	CongoSat 1	
??	??	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	20
??	CZ-??	CAS-4A, CAS-4B	
Launch site:	Taiyuan ,	China	
??	CZ-4B	HY-1D Haiyang-1D	
??	CZ-4B	HY-2B Haiyang-2B	
??	CZ-3C	Beidou 3	G8
??	CZ	Orbita-1 1	
??	??	LJ-1 Luojia-1	
??	CZ	Huaizong-1	
??	CZ-3B/YZ-1	ZX-6C Zhongxing-6C	
??	CZ-3A	FY-2H Fengyun-2H	
??	CZ-2D	GF-6 Gaofen-6	
??	CZ-2D	SaudiSAT 5B	
??	CZ	YG-32 Yaogan Weixing	32
??	GSLV MK II	F12	GSAT-7A
??	GSLV MK II	F10	GISAT
??	PSLV		EnMap
??	Simorgh	Dosti	
Launch site:	Semnan ,	Iran	
??	Safir 1 B	Tadbir	
??	Safir 3A	Pars sepher	
??	Unha-3		Kwangmyŏngsŏng-5
??	Tronador II/VEX5	TBD	(suborbital)
Launch site:	Puerto Belgrano,	Argentina	

1 + 28
6 + 182

2019.

??	Falcon 9	GiSat-1
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?? [Falcon 9](#) (SPx-DM2) Dragon v2
CDR: Eric Boe, Sunita Williams

Feb01. [Falcon 9](#) [Dragon SpX-17](#)

Feb06. [Soyuz-2](#) [Progress MS 11](#) 100

Feb?? [CZ-3C](#) Beidou 3 I1Q
 Feb?? [Atlas 5](#) [Solar Orbiter](#) (Solo) (ESA)
 Feb?? [Atlas 5](#) 551 (AV-086) AEHF-6
 Feb?? [Delta IV](#) GPS IIIA-2

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

Mar07. [Soyuz-2 1A](#) [Soyuz MS 12 \(S59/60\)](#)
 CDR: Олѐг Ива́нович **Скри́почка**, (Oleg Ivanovich **Skripotcka**), Андрѐй Николаѐвич **Ба́бкин** (Andrei Nikolaevich **Babkin**), Shannon **Walker**

Mar?? [Ariane 5](#) ECA GEO-KOMPSAT-2B , Cheollian 2B

?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x32)
 ?? [Soyuz-2-1B](#)/[Fregat](#) Glonass K2 / 13

Apr?? [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.

Apr?? ?? GOES-T
 Apr?? [CZ-3B/E](#) Nicasat 1
 Apr?? [CZ-3C](#) Beidou 3 I2Q
 Apr?? [Atlas 5](#) 531 [Cygnus](#) OA-11

?? CZ7 TZ 2 Tianzhou 2 (Logistic Cargo Vehicle)
 ?? [Falcon 9](#) Dragon v2 (USCV-1) with 2 astronauts

May?? [Atlas 5](#) 402 CST 100 Starliner (USCV-2) with 2 astronauts
 May?? [Soyuz-2](#) [Progress MS](#) 12
 May?? [Falcon 9](#) FT [Dragon](#) SpX-18 80

June?? [Atlas 5](#) 551 STP-03
 June?? [Ariane 5](#) ES JWST (James Webb Space Telescope)

?? [PSLV](#) RISAT 1A
 ?? [CZ-3B/G2](#) TECSTAR 1
 ?? [Vega](#) Cosmo-SkyMed Secon Gen 1 CSG-1
 ?? SSLV ??

July?? [CZ-3C](#) Beidou 3 I3Q
 July?? H-2B (F9) HTV8

?? [Ariane 5](#) Inmarsat-5 F5
 ?? [Falcon 9](#) GPS IIIA-3



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

Sep30. [Soyuz-2 1A](#) [Soyuz MS 13 \(S60/61\)](#)

CDR: Александр Александрович **Скворцов** (Aleksandr Aleksandrovich **Skvortsov**), Luca **Parmitano** (ESA), Anne **McClain** (NASA)

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 №5

Oct?? [Atlas 5 552](#) Dream Chaser Cargo System SNC-1

Oct?? [Soyuz-2](#) [Progress MS 13](#)

Oct?? [Falcon 9](#) FT [Dragon](#) SpX-19

Nov14. [Soyuz-2 1B](#) [Progress M-UM](#)

Nov29. [Soyuz-2 1a](#) / [Fregat](#) [Luna 25 \(Luna-Glob-1\)](#) 60

Nov?? [Falcon 9](#) USCV-3 (US Commercial Vehicles)

?? [Soyuz-2-1B](#)/[Fregat](#)-M Glonass K2 / 14

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

?? [Falcon 9](#) GPS IIIA-4

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

Dec?? [CZ-3B/YZ-1](#) Beidou 3 MEO M21, Beidou 3 MEO M22

Dec?? [Proton-M](#)/[Briz-M](#) Ekspress 80, Ekspress 103

?? [Falcon H](#) Circumlunar Dragon V2

?? [Atlas 5 551](#) AFSPC-7 (X-37B OTV 6)

?? [Falcon 9](#) Astrium active SARah satellite

?? [Atlas 5 551](#) Asteroid Retrieval Spacecraft (ARS)

?? ?? EX-3

?? [Vega](#) Jason-CS A

?? [Vega](#) OpSis

?? [Vega](#) VNREDSat

?? [Vega](#) LOTUSat

?? [Ariane 5](#) ECA Eutelsat Quantum

?? [Ariane 5](#) ECA African Broadband Satellite

?? [Soyuz ST](#) / [Vega](#) MicroCarb

?? [Soyuz ST](#) B/[Fregat](#)-MT Sentinel-1C 40

?? [Ariane 5](#) ViaSat-3

?? [Ariane 5](#) JCSat 17

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

?? [Proton-M](#)/[Briz-M](#) Luch 5M

?? [Proton-M](#)/[Briz-M](#) Yenisey A1

?? [Proton-M](#)/ DM-03 [Glonass-M](#)/ 56,57,58

?? [Soyuz-2 1B](#) /[Fregat](#)-M Glonass K1 / 17

?? [Proton-M](#)/ DM-03 [Glonass-M](#)/K18,K19,K20

?? [Proton-M](#)/ DM-03 [Glonass-M](#)/K21,K22,K23



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??	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	
??	Angara A5/ Briz-M	Kosmos	
??	Angara 1.2	Kosmos	
??	Proton-M/Briz-M	Kosmos	
??	Proton-M/Briz-M	Blagovest 13	
??	Proton-M/Briz-M	Ямал-GK-1	
??	Proton-M/Briz-M	EgyptSat 3	20
??	Proton-M/Briz-M	Anik G2V	
??	Proton-M	PTK NP	
??	Soyuz-2-1B/Fregat M	Meridian 18L	
??	Soyuz-2-1B	Obzor R -1	
??	Soyuz-2-1B	Pion	
??	Soyuz ST	CSO 1	
??	Soyuz ST B/Fregat-MT	OneWeb smalsat (x32)	
??	Zenit 3 SL /Fregat-SB	Lybid'	
Launch site: Байконур (Baikonur) Cosmodrome, Kazakhstan			
??	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-4B	HY-2C Haiyang-2C	
??	??	Hainan-1 (1)	
??	??	Hainan-1 (2)	
??	??	Hainan-1 (3)	
??	GSLV MK II F11	GSAT-10A	
Launch site: Satish Dhawan Space Centre , Sriharikota, India			
??	PSLV XL	Aditya'	
??	PSLV	ScatSat, NovaSAR	
103			
2020.			
Jan??	Falcon 9	Dragon SpX-20	



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Feb??	H-2B (F10)	HTV9
Feb??	Falcon 9 FT	Dragon SpX-21
Mar30.	Soyuz 2-1A	Soyuz MS 14 (S61/62)
	Soichi Noguchi	
Mar??	Delta IV -M	DMSP-5D3 F20
Mar??	Soyuz-2 -1B/ Fregat -M	Glonass K1 / 22
??	CZ-5	Tian He Space Station Core Module
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
May??	Atlas 5 402	USCV-4 (US Commercial Vehicles)
??	CZ-3B / G2	ZX-18 Zhongxing-18
June??	SLS-1	Orion (unmanned trip around the Moon) Exploration Mission 1 (Distant Retrograde Orbit (DRO) Tactical DRM)
June??	Ariane	MTG-S1/Sentinel-4A
June??	CZ-3C	Beidou 3 G3Q
June??	Vega_C	Space Rider flight 1
July16	Ariane 62	Galileo-FOC FM23, Galileo-FOC FM24
July24.	Proton-M/Briz-M	ExoMars (CM+DM) 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.
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.
July??	CZ-3C	Beidou 3 G2Q
??	CZ 5	Mars probe (orbiter + lander + rover)
??	Vega-C Pleiades Neo 1, Pleiades Neo 2	
Sep30.	Soyuz 2-1A	Soyuz MS 15 (S62/63)
Sep??	CZ	CBERS-6
Sep??	Soyuz-2 -1B/ Fregat -M	Glonass K2 / 15
??	CZ-2F/G	SZ-13 Shenzhou-13
??	Falcon 9	GPS IIIA-5
Oct??	Vega	Proba 3
Nov??	Atlas 5 402 / Falcon 9	USCV-5 (US Commercial Vehicles)



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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
??	??	HyspIRI
??	Antares	IMAP/STP-05
??	Falcon 9 FT	Dragon SpX-22
??	Antares 230	Cygnus OA-12
??	Falcon H	ViaSat 3
??	Falcon 9	KPLO (Korea Pathfinder Lunar Orbiter)
??	Proton-M	HƏM-1
??	Soyuz-2	Progress MS 14
??	Soyuz-2	Progress MS 15
??	Soyuz-2	Progress MS 16
??	Soyuz-2-1B/ Fregat-M	Glonass M 55
??	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-M	Resurs PM - 1
??	Soyuz-2-1B/Fregat-M	Meteor M No2-3
??	Angara 1.2	Kompsat-6
??	Soyuz-2-1A/Fregat-M	Gonets x 6
??	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
??	??	Seosat-Ingenio-2
??	??	EPS-SG-b



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??	Ariane 5	Arsat 3
??	CZ5	Chang'e-6
??	CZ	Two Meter Space Telescope
??	CZ	FY-4C Fengyun-4C
??	CZ	HY-3B Haiyang-3B
??	CZ-3B/ Palapa	1N
??	??	Hainan-1 (4)
??	??	Hainan-1 (5)
??	??	Hainan-1 (6)
??	??	Sanya-1 (1)
??	??	Sanya-1 (2)
??	GSLV MK III	MOM-2 Follow on Mars Mission
??	H-IIA	Hope (UAE mission to Mars)
??	H-IIA	Astro H2 (Hitomi-2), SLIM (Smart Lander for Investigating Moon)
??	H-IIA	Inmarsat-6 F1

2021.

Jan ?? Ariane 62 Galileo-FOC FM25, Galileo-FOC FM26

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

Mar30. [Soyuz-2-1A](#) [Soyuz MS](#) 16

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

May?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-6 (US Commercial Vehicles)

June?? [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.

?? 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

July?? [Vega](#) Biomass

Sep30. [Soyuz-2-1A](#) [Soyuz MS](#) 17

Sep?? [Soyuz ST](#) B/[Fregat](#)-MT MetOp-SG A1/EPS-SG-a/Sentinel-5A

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

Nov?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-7 (US Commercial Vehicles)

?? [Ariane 5](#) MTG-I1

?? [Atlas 5](#) 552 Dream Chaser Cargo System SNC-2



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??	SLS Block I	Europa Clipper
??	Falcon 9	GPS IIIA-6
??	Falcon 9	GPS IIIA-7
??	Falcon 9	GPS IIIA-8
??	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	Resurs PM - 2
??	Soyuz-2-1B/Fregat-M	Meteor M No2-4
??	Angara 1.2	Gonets x 3
??	Proton-M/Briz-M	Ekspress-RV1, Ekspress-RV2
??	Proton-M/Briz-M	Ekspress AMU 4
??	Soyuz-2-1B/Fregat-M	Smotr R №1
??	Proton-M/Briz-M	IntelSat
??	Proton-M/Briz-M	Elektro L - 4
??	Soyuz-2-1B/Fregat-M	Arktika M 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)
??	??	Sansha-1 (1)
??	??	Sansha-1 (2)

2022.

Jan?? ?? Solar Sentinels

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

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](#) [Soyuz MS 18](#)

?? CZ7 TZ 4 Tianzhou 4 (Logistic Cargo Vehicle)
 ?? CZ-5B Xuntian Lab module Space station module
 ?? CZ-2F/G SZ-15 Shenzhou-15

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

June04. **SLS Block I Orion: Exploration Mission 2 (Crew to Cislunar) Mission)**

June?? [Ariane 5ECA](#) JUICE (JUperiter ICy moon Explorer)
 June?? Ariane 5 MTG-I2



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??	Sunkar ??	
??	Soyuz-2	Progress MS 21
Aug??	H2B	Phobos sample return
Sep30.	Soyuz-2-1A	Soyuz MS 19
Sep??	Soyuz ST B / Fregat -MT	MetOp-SG B1
Nov??	Atlas 5 402 / Falcon 9	USCV-9 (US Commercial Vehicles)
??	Sunkar Federatsia (unmaned)	
??	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
??	Falcon 9	GPS IIIA-9/GPS IIIB-1
??	Falcon 9	GPS IIIA-10/GPS IIIB-2
??	Proton-M/Briz-M	Ekspress – AMU 5
??	Proton-M/Briz-M	Ekspress – AMU 6
??	Proton-M/Briz-M	Ekspress – RV 3, Ekspress – RV 4
??	Angara 1.2	Gonets x 3
??	Proton-M/Briz-M	Eutelsat
??	Proton-M/Briz-M	Intelsat
??	Soyuz-2-1B / Fregat -M	Smotr R №2
??	Soyuz-2-	Razdan 2
??	Proton-M/Briz-M	Elektro L - 5
??	Ariane 5	Moon's south pole samples return mission
??	Vega	Jason-CS B
??	Ariane 5	ATHENA
??	CZ	HY-3C Haiyang-3C
2023.		
??	Soyuz-2	Progress MS 23
Mar30.	Soyuz-2-1A	Soyuz MS 20
??	CZ7	TZ 5 Tianzhou 5 (Logistic Cargo Vechile)
??	CZ-2F/G	SZ-16 Shenzhou-16
May??	Atlas 5 402 / Falcon 9	USCV-10 (US Commercial Vehicles)
??	Soyuz-2	Progress MS 24
Sep30.	Soyuz-2-1A	Soyuz MS 21
??	Soyuz-2	Progress MS 25
Nov??	Atlas 5 402 / Falcon 9	USCV-11 (US Commercial Vehicles)



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- ?? SLS Block IA II Orion: Exploration Mission 3 (Crew to Cislunar)
- ?? Sunkar Federatsia (unmaned flight to ISS)
- ?? 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
- ?? [Soyuz-2-1B/Fregat-M](#) Meteor M No2-5
- ?? [Soyuz-2-1B/Fregat-M](#) Arktika M 3
- ?? [Vega](#) Sentinel-2A 2nd Gen
- ?? CZ SPORT (Solar Polar Orbit Radio Telescope)
- ?? CZ FY-4D Fengyun-4D
- ?? [GSLV](#) MK III Mission to Venus
- ?? [Angara](#) A5P/DM03 Lutch 5 – 2
- ?? [Soyuz-2-1b](#) Bion-M No. 2
- ?? [Angara](#) A5P/DM03 Lutch 5 – 3
- ?? ?? Ямал GK 2
- 2024**
- Mar30.** [Soyuz-2-1A](#) [Soyuz MS 22](#)
- ?? CZ7 TZ 6 Tianzhou 6 (Logistic Cargo Vechile)
- May?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-12 (US Commercial Vehicles)
- Sep30.** [Soyuz-2-1A](#) [Soyuz MS 23](#)
- Oct?? EELV GOES-U
- ?? SLS Block IA II Orion: Exploration Mission 4 (Crew to Cislunar)
- ?? Sunkar Federatsia (Light 14t – 2 man to ISS)
- ?? [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
- ?? [Soyuz-2-1B/Fregat-M](#) Resurs PM - 4



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?? [Angara 1.2](#) [Gonets](#) x 2, Gonets M
 ?? [Soyuz-2-1B/Fregat-M](#) Arktika M 4
 ?? ?? Ямал GK VEO 1
 ?? [Soyuz-2-1A](#) Obzor P -1
 ?? [Soyuz-2-1B/Fregat-M](#) Razdan - 3
 ?? [Soyuz-2-1B/Fregat-M](#) Meteor M No2-6

?? ?? 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](#) [Soyuz MS](#) 24
 ?? [Soyuz-2](#) [Progress MS](#) 29
 ?? [Soyuz-2-1B/Fregat-M](#) Resonans 2A, 2B, MKA-PN5
 ?? ?? Ямал GK VEO 2
 ?? ?? Ямал GK VEO 3
 ?? [Angara 1.2](#) [Gonets](#) x 3
 ?? [Soyuz-2-1B/Fregat-M](#) Arktika M 5
 ?? [Soyuz-2-1B](#) Obzor O -2
 ?? [Soyuz-2-1b](#) Bion-M No. 3
 ?? 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)
 ?? [Angara](#) A5P/DM03 Bumerang (FobosGrunt 2)

2069.

?? ?? [Interstellar mission](#)