



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (08.01.2018.)

2018.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in **red**. Last change **08.Jan.2018**.

Jan08. 0055UTC [Falcon 9](#) Mission 1390 - Zuma (no info about!!)

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

Jan09. 0320UTC [CZ-2D](#) GJ-1 [GaoJing-1](#) 03/04

Launch site: [Taiyuan](#), China

Jan10. 2100UTC [Delta IV-M+\(5,2\)](#) NROL-47 ([Topaz 5](#))

Launch site: [Vandenberg](#), USA

Jan11. 2300UTC [CZ-3B/YZ-1](#) [Beidou 3](#) MEO M3, [Beidou 3](#) MEO M4

Launch site: [Xichang](#), China

Jan12. 0358UTC [PSLV XL \(C40\)](#) [CartoSat 2E](#)

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

Jan13. 0713UTC [CZ-2D](#) LKW-3 Ludikancha Weixing -3

Launch site: [Jiuquan](#), China

Jan16. 2100UTC [Epsilon \(3\)](#) [ASNARO 2](#)

Launch site: [Tanegashima](#), Japan

Jan19. 0040UTC [Atlas 5 401 \(AV076\)](#) [SBIRS-GEO 4](#)

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

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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

Jan25. 2220UTC [Ariane 5 ECA \(VA241\)](#) [Al Yah 3](#) / [SES 14 GOLD](#)

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

Jan29. [CZ-2C](#) YG-30 - 4 [Yaogan Weixing 30 - 4](#)

Launch site: [Xichang](#), China

Jan30. 2123UTC [Falcon 9](#) [SES-16](#)

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

Jan30. [Falcon 9 FT](#) [PAZ](#)

Launch site: [Vandenberg](#), USA

Jan31. 0330UTC [SS-520-4](#) [Tricom-1R](#)

Launch site: [Tanegashima](#), Japan

Jan?? [Soyuz-2-1V](#) Kosmos EMKA

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

Jan?? [Electron](#) [Still Testing](#)



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Launch site: [Kaitorete Spit](#), New Zeland

Jan?? [Falcon H](#) Demo Flight

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

?? [Simorgh](#) [Dosti](#)

Launch site: [Semnan](#), Iran

?? [Unha-3](#) Kwangmyöngsöng-5

Feb01. [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

Feb11. [Soyuz-2 1A](#) [Progress MS 8](#)

Feb15. [CZ-3B/YZ-1](#) [Beidou 3 MEO M5](#), [Beidou 3 MEO M6](#)

Feb20. CZ Taurus-1

Feb25. 0400UTC [H-2A](#) [IGS Optical-6](#)

Launch site: [Tanegashima](#), Japan

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

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

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

?? [Falcon 9](#) Hispasat 30W-6 (1F) 160

Mar01. 2202UTC [Atlas 5 \(541\)](#) GOES-S

Mar01. [Soyuz ST B/Fregat-MT \(VS18\)](#) O3b

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

??Mar06. [PSLV](#) C42 Team Indus Lunar Lander/ Rover, Team Hakuto Rover

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**

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



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?? Pegasus-XL ICON ([Helio EX-1](#))
Launch site: [Kwajalein Atoll](#), USA

?? [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 140

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

Apr?? [H-2A](#) GOSAT-2
Apr?? [GSLV](#) Mk II D9 Chandrayaan 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](#) 120

June06. [Soyuz-2 1A](#) [Soyuz MS 9 \(S56/57\)](#)
CDR: Сергей Валерьевич **Прокопьев** (Sergei Valerevich **Prokopyev**), Jeanette J. **Epps**, Alexander **Gerst**

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

June?? [Rokot / Briz KMGeo IK 2](#)
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

June?? CZ L2 Chang'e 4 communications relay satellite



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June??	Falcon 9	SAOCAM 1A
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
July??	Ariane 5 ES	Galileo-FOC FM19 (Tara), Galileo-FOC FM20 (Samuel), Galileo-FOC FM21
(Anna),	Galileo-FOC FM22 (Ellen)	100
July??	Soyuz-2 -1B/ Fregat -M	Glonass-M
July??	Soyuz-2 1A	Bars-M 3
??	Falcon H	Arabsat 6A
??	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)
??	Falcon 9 (SPx-DM1)	Dragon v2 unmanned test
Aug16.	H-2B (F7)	HTV7
Aug??	Atlas 5 N22 (AV80)	CST-100 Starliner (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 80
Sep??	Proton-M / DM-03	Glonass K
Sep??	Soyuz-2 -1B	Arktika
??	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)



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??	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	
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	60
Nov??	Soyuz ST B/ Fregat -MT	OneWeb smalsat (x32)	
Nov??	Soyuz-2 1B / Fregat -M	Resurs N°4	
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)	40
Dec??	Soyuz-2-1B / Fregat -M	Glonass K	
Dec??	Soyuz-2-1B / Fregat -M	Glonass K2	
??	Ariane 5	Heinrich Hertz	



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??	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
??	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	20
??	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	
??	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	
??	Safir 1 B	Tadbir	
??	Safir 3A	Pars sepheer	
??	Tronador II/VEX5	TBD	(suborbital)
Launch site: Puerto Belgrano, Argentina			



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?? [Falcon 9](#) GiSat-1

?? [Falcon 9](#) (SPx-DM2) Dragon v2

CDR: Eric **Boe**, Sunita **Williams**

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

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

Feb?? [CZ-3C](#) Beidou 3 I1Q

Feb?? [Atlas 5](#) [Solar Orbiter](#) (SolO) (ESA)

Feb?? [Atlas 5](#) 551 (AV-086) AEHF-6

Feb?? [Falcon 9](#) GPS IIIA-2

?? [Soyuz-2-1B](#) Arktika M 1

Launch site: Восточный (Vostochniy), Cosmodrome, Russia

?? [Atlas 5](#) 422 (AV082) CST-100 Starliner

CDR: Douglas **Hurley**, Robert **Behnken**

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Mar07. [Soyuz-2 1A](#) [Soyuz MS 12 \(S59/60\)](#)

CDR: Олѐг Ива́нович **Скри́почка**, (Oleg Ivanovich **Skripotscka**), Андрѐй Николаѐвич **Ба́бкин** (Andrei Nikolaevich **Babkin**), Shannon **Walker**

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

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

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

June?? [Ariane 5](#) ES JWST (James Webb Space Telescope)



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??	PSLV	RISAT 1A	
??	CZ-3B/G2	TECSTAR 1	
??	Vega	Cosmo-SkyMed Secon Gen 1	CSG-1
??	SSLV	??	
July??	CZ-3C	Beidou 3 I3Q	60
July??	H-2B (F9)	HTV8	
??	Ariane 5	Inmarsat-5 F5	
??	Falcon 9	GPS IIIA-3	
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)	
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	
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	40
??	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	



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??	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	20
??	Proton-M/DM-03	Glonass-M/K18,K19,K20	
??	Proton-M/DM-03	Glonass-M/K21,K22,K23	
??	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	
??	Proton-M/Briz-M	Anik G2V	
??	Proton-M	PTK NP	
??	Soyuz-2-1B/Fregat M	Meridian 18L	40
??	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'	



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?? [PSLV](#) ScatSat, NovaSAR

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2020.

Jan?? [Falcon 9](#) [Dragon](#) SpX-20

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 \(S62/63\)](#)



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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)
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



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??	??	Zond
??	??	MKA PN6 (Monika)
??	??	Картораф-ОЭ №1
??	Vega	Sentinel-2C
??	Vega	Sentinel-3C
??	??	Seosat-Ingenio-2
??	??	EPS-SG-b
??	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



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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
??	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



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



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- 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)
- ?? 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)



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?? [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
 ?? [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](#)