



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (25.12.2017.)

2017.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in red. Last change 25.Dec.2017.

Dec26. 1900UTC Zenit 3-SLB / DM-SLB [AngoSat](#)

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

Dec27. [CZ-2C](#) CX-5 Chuangxin-5 (Yaogan 30-03 (3 sats))

Launch site: [Xichang](#), China

Dec28. 0330UTC SS-520-4 [Tricom-1R](#)

Launch site: [Tanegashima](#), Japan

18
88 + (3)

2018.

Jan05. [Falcon 9](#) Mission 1390 - Zuma (no info about!!)

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

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

Launch site: [Taiyuan](#), China

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

Launch site: [Vandenberg](#), USA

Jan10. [PSLV](#) XL (C40) [CartoSat 2E](#)

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

Jan16. 2100UTC Epsilon (3) ASNARO 2

Launch site: [Tanegashima](#), Japan

Jan17. [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

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

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

Jan25. [Ariane 5](#) ECA (VA241) AI Yah 3 / SES 14 GOLD

Jan26. [Soyuz-2](#) 1A / Fregat [Kanopus V](#) 3, Kanopus V 4

Launch site: Восточный ([Vostochniy](#)) Cosmodrome, Russia

Jan30. [Falcon 9](#) FT PAZ 180

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

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



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

Jan?? [Soyuz-2-1V](#) Kosmos EMKA
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

Jan?? [Electron](#) [Still Testing](#)
Launch site: [Kaitorete Spit](#), New Zeland

Jan?? [CZ-3B/YZ-1](#) [Beidou 3](#) MEO M3, [Beidou 3](#) MEO M4
Launch site: [Xichang](#), China

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

?? [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
?? Unha-3 Kwangmyŏngsŏng-5

Feb01. [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](#)

Feb20. **CZ** **Taurus-1**

Feb?? [Falcon 9](#) FT SES-12
Feb?? [GSLV](#) Mk II F8 GSAT 6A

?? [Falcon 9](#) FT [Iridium Next](#) Flight 5 (x10)
Launch site: [Vandenberg](#), USA

?? [Soyuz-2-1B](#) Pion
?? [CZ-3B/YZ-1](#) [Beidou 3](#) MEO M5, [Beidou 3](#) MEO M6 160
?? [H-2A](#) [IGS Optical-6](#)
?? [PSLV](#) XL (C41) IRNSS I
?? [Soyuz-2-1B/Fregat-M](#) [Glonass-M/](#) 59
?? [Falcon 9](#) FT Es'hail 2
?? [Falcon 9](#) Hispasat 30W-6 (1F)

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

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

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**

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



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Mar20. [Falcon 9](#)

TESS

Mar22. [Proton-M/Briz-M](#)

Blagovest 12

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

Mar??	GSLV	Mk II D9	Chandrayaan 2
Mar??	Rokot / Briz KM		Sentinel 3B
Mar??	CZ-2C		Pakistani Remote Sensing Satellite (PRSS) 1
Mar??	Falcon 9	FT	Bangabandhu-1

?? [Rokot / Briz KM](#) [Geo IK 2](#)

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

?? Pegasus-XL [ICON \(Helio EX-1\)](#)

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

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??	KZ-1A	??
??	KZ-1A	??
??	KZ-1A	??
??	KZ-1A	??
??	Proton-M/	DM 3 Kosmos

Apr01. [Falcon 9 \(SPx-DM1\)](#) **Dragon v2 unmanned test**

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

Apr18. [Atlas 5 551 \(AV81\)](#) **AFSPC-11**

Apr30. **Falcon Heavy** **STP-02**

Apr?? [H-2A](#) GOSAT-2

?? [Rokot / Briz KM](#) [Gonets](#) x 3 (No 24,25,26), Blits-M

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

??	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

??	Falcon 9	FT	Iridium Next Flight 7 (x10)
??	CZ-3B/YZ-1		Beidou 3 MEO M7, Beidou 3 MEO M8

June06. [Falcon 9](#) FT [Dragon SpX-15](#)

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June06. [Soyuz-2 1A](#) [Soyuz MS 9 \(S56/57\)](#)

CDR: Сергей Валерьевич **Прокопьев** (Sergei Valerevich **Прокопьев**), Jeanette J. **Epps**, Alexander **Gerst**



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June??	CZ	L2 Chang'e 4 communications relay satellite
June??	Falcon 9	SAOCAM 1A
??	Proton-M	PTK NP
??	Vega	TARANIS
??	Soyuz ST	CSO 1
??	Vega	Prisma
??	Proton-M/Briz-M	Kosmos
??	Angara A5/ Briz-M	Kosmos
??	Ariane 5 ECA	GSAT-11
??	Falcon 9	Spaceflight SSO-A
??	GSLV MK III D2	GSAT-29
??	Ariane 5 ECA	Azerspace 2 (Intelsat 38)
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)		
??	Falcon H	Arabsat 6A
??	Falcon 9	PSN VI
??	CZ-3B/YZ-1	Beidou 3 MEO M9, Beidou 3 MEO M10 100
??	Soyuz ST B/Fregat-MT	OneWeb smalsat (x10)
??	Ariane 5 ECA	GEO-KOMPSAT-2A
??	Falcon 9	Iridium Next Flight 8 (x10)
Aug??	Falcon 9 (SPx-DM2)	Dragon v2
CDR: Eric Boe, Sunita Williams		
Aug??	Atlas 5 N22 (AV80)	CST-100 Starliner (unmanned test)
Aug??	CZ-3C	Beidou 2 I7
Aug??	Falcon 9 FT	Telkom 4
Aug??	Falcon 9 FT	Dragon SpX-16
Aug??	H-2B (F7)	HTV7
??	Soyuz ST B/Fregat-MT	OneWeb smalsat (x32)
??	Soyuz-2-1B/Fregat-M	Meteor M-2-2, Ionosfera 3, Ionosfera 4
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
Sep17.	Soyuz ST B/Fregat-M	MetOp-C
Sep??	CZ-3B/YZ-1	Beidou 3 MEO M15, Beidou 3 MEO M16
??	Zenit 3 SL /Fregat-SB	Lybid'
Launch site: Байконур (Baikonur) Cosmodrome, Kazakhstan		
??	Ariane 5 ECA	EDRS-C (Hylas 3)



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??	Ariane 5 ECA	Intelsat 7C	
??	Falcon 9	Radarsat C-1, -2, C-3	80
??	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??	Proton-M/Briz-M	Elektro L – 3	
Oct??	Antares 230	Cygnus Orb-10E	
Oct??	Falcon 9	Dragon SpX-17	
??	Ariane 5 ECA	Intelsat 39	
??	Ariane 5	Horizon 3e	
??	Soyuz-2-1B/ Fregat-M	Glonass M 60	
Nov01.	Delta IV-M (5,4)	WGS 10	
Nov15.	Soyuz-2 1A	Soyuz MS 11 (S58/59)	
CDR:	Олэг Дмíтриевич Кононёнко (Oleg Dmitrievich Kononenko), Serena Auñón-Chancellor , David Saint-Jaques		
Nov??	Atlas 5 422 (AV082)	CST-100 Starliner	
CDR:	Douglas Hurley , Robert Behnken		
??	Epsilon (4)	Inovative Technology Demonstration Satellite – 1, OrigamiSat-1	
??	Launch site: Tanegashima , Japan		
??	Minotaur 1	NROL 111	
??	Soyuz ST B/Fregat-MT	OneWeb smalsat (x32)	60
??	Falcon 9	Spaceflight GTO.C	
??	Soyuz-2 1A / Fregat	Kanopus V 5, Kanopus V 6	
??	Soyuz-2-1B/ Fregat-M	Glonass M 61	
??	Proton-M/Briz-M	Blagovest 13	
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??	Soyuz-2 1B / Fregat-M	Resurs N°4	
Dec??	??	Korean Pathfinder Lunar Orbiter	
Dec??	Falcon 9 FT	Dragon SpX-18	
Dec??	Soyuz ST B/Fregat-MT	CHEOPS (Characterising ExOPlanet Satellite)	
??	Ariane 5	Heinrich Hertz	
??	Minotaur-4	FORMOSAT-7 (6 sat)	
??	Atlas 5	AEHF 5	
??	Proton-M/Briz-M	EutelSat 5 West B / MEV	
??	Proton-M/Briz-M	Kosmos	



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??	Proton-M/Briz-M	Ямал-601	
??	Proton-M/Briz-M	Ямал-GK-1	
??	Proton-M/Briz-M	EgyptSat 3	
??	Proton-M/Briz-M	Anik G2V	40
??	Soyuz-2-1B/Fregat M	Meridian 18L	
??	Soyuz-2 1A	Bars-M 3	
??	Soyuz-2 1A	Energiya-100	
??	Soyuz-2-1B	Obzor R -1	
??	Soyuz-2 1B /Fregat-M	Glonass K1 / 15	
??	Angara 1.2	Kosmos	
??	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-2D	GF-7 Gaofen-7	
??	CZ	CBERS-SAR 1	
??	CZ	Deep Space Solar Observatory	
??	CZ	CBERS-4B	
??	CZ-2	CAS-2A1, CAS-2A2	
??	CZ-3B/E	SupremeSAT-II	20
??	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	
??	CZ-3C	Beidou 3 G8	
??	CZ	Orbita-1 1	
??	??	LJ-1 Luojia-1	
??	CZ	Huaizong-1	
??	LS-1	LandSpace-1	
??	GSLV MK II	F12 GSAT-7A	



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?? [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.

?? [Falcon 9](#) GiSat-1
 Jan?? ?[Atlas 5](#) 531 [Cygnus](#) OA-11
 Jan?? [Falcon 9](#) Dragon v2 (USCV-1) with 2 astronauts

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

Feb?? [CZ-3C](#) Beidou 3 I1Q
 Feb?? H-2B (F9) HTV8
 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 80

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

?? CZ7 TZ 2 Tianzhou 2 (Logistic Cargo Vehicle)

May?? [Falcon 9](#) FT [Dragon](#) SpX-19
 May?? [Atlas 5](#) 402 CST 100 Starliner (USCV-2) with 2 astronauts
 May?? [Soyuz-2](#) [Progress MS 12](#)



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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
July??	CZ-3C	Beidou 3 I3Q	
??	Ariane 5	Inmarsat-5 F5	60
??	Falcon 9	GPS IIIA-3	
Aug??	Soyuz ST B/ Fregat -MT	EarthCare	
Aug??	CZ-2C	CFOSAT (China-France Oceanography SATellite)	
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??	Falcon 9 FT	Dragon SpX-20	
Oct??	Atlas 5 552	Dream Chaser Cargo System SNC-1	
Oct??	Soyuz-2	Progress MS 13	
Nov14.	Soyuz-2 1B	Progress M-UM	
Nov29.	Soyuz-2 1a / Fregat	Luna 25 (Luna-Glob-1)	
??	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	
??	Soyuz-2-1A/Fregat-M	Kondor-FKA n.º 1	
??	Proton-M/Briz-M	SkyTerra 2	
??	Proton-M/Briz-M	Ekspress AMU 3 / Ekspress AMU 7	
??	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 / 16	
??	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	
??	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

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2020.

Jan?? [Falcon 9](#) v1.1 USCVC-3 (US Commercial Vehicles)

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



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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?? 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

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
 ?? ?? HypsIRI
 ?? Antares IMAP/STP-05



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??	Atlas 5 402	USCV-4 (US Commercial Vehicles)
??	Falcon 9 FT	Dragon SpX-19
??	Falcon 9 FT	Dragon SpX-21
??	Falcon 9 FT	Dragon SpX-22
??	Antares 230	Cygnus OA-12
??	Falcon H	ViaSat 3
??	Falcon 9	KPLO (Korea Pathfinder Lunar Orbiter)
??	Proton-M	НЭМ-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
??	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	



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??	??	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

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

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

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

?? [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



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??	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

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
June??	Atlas 5 402 / Falcon 9	USCV-7 (US Commercial Vehicles)

??	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

?? Sunkar Federatsia (unmaned)



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Dec??	Atlas 5 402 / Falcon 9	USCV-8 (US Commercial Vehicles)
??	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 Vehicle)
 ?? CZ-2F/G SZ-16 Shenzhou-16

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

?? [Soyuz-2](#) [Progress MS](#) 24

Sep30. [Soyuz-2-1A](#) [Soyuz MS](#) 21

?? [Soyuz-2](#) [Progress MS](#) 25

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

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

?? Sunkar Federatsia (unmanned 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](#) Ekspress – AT3, AT4
 ?? [Soyuz-2-1B/Fregat-M](#) Resurs PM - 3
 ?? [Angara](#) 1.2 [Gonets](#) x 3



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??	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 Vehicle)
June??	Atlas 5 402 / Falcon 9	USCV-11 (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
??	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



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?? 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**