



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (27.11.2017.)

2017.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in red. Last change 27.Nov.2017.

Nov28. 0541UTC Soyuz-2-1B/Fregat-M Meteor M-2-1, two MKA N, Ionosfera 1, Ionosfera 2

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

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

Launch site: [Semnan](#), Iran

Dec02. 1030UTC Soyuz-2-1B Lotos-S1 14F145

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

Dec02. CZ-2D YG-31 Yaogan Weixing 31

Launch site: [Jiuquan](#), China

Dec04. 1953UTC Falcon 9 Dragon SpX-13

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

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Dec07. Electron Still Testing

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

Dec11. CZ-3B/E Alcomsat-1

Launch site: [Xichang](#), China

Dec12. 1836UTC 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

Dec17. 0721UTC Soyuz-2 1A Soyuz MS 7 (S54/55)

CDR: Антон Николаевич Шкаплеров (Anton N. **Shkaplerov**), Norishige **Kanai**, Scott **D. Tingle**

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

Dec22. Soyuz-2 1A / Fregat Kanopus V 3, Kanopus V 4

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

Dec23. 0126UTC H-2A (F37) GCOM-C

Launch site: [Tanegashima](#), Japan

Dec23. 0126UTC Falcon 9 Iridium Next Flight 4 (x10)

Launch site: [Vandenberg](#), USA

Dec25. 0100UTC SS-520-4 Tricom-1R

Launch site: [Tanegashima](#), Japan

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Dec25. CZ-2D GJ-1 GaoJing-1 03/04

Dec26. Zenit 3-SLB / DM-SLB AngoSat



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

Dec27. [Soyuz-2-1V](#) ??

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

??Dec29. [Falcon H](#) **Demo Flight**

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

Dec30. [PSLV XL \(C40\)](#) [CartoSat 2E](#)

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

Dec?? [CZ-3B/YZ-1](#)

[Beidou 3](#) MEO M3, [Beidou 3](#) MEO M4

Launch site: [Xichang](#), China

Dec?? CZ-2C

CX-5 Chuangxin-5

Launch site: [Xichang](#), China

Dec?? [Falcon 9](#)

Mission 1390 - Zuma (no info about!!)

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

?? Unha-3 Kwangmyŏngsŏng-5

16 + (5)

78 + (24)

2018.

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

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Jan18. [Atlas 5](#) 401 (AV076)

SBIRS-GEO 4

Jan18. [Ariane 5](#) ECA (VA241)

Al Yah 3 / SES 14 GOLD

Jan30. [Falcon 9](#) FT

PAZ

Jan?? [Falcon 9](#)

SES-16

Jan?? [GSLV](#) Mk II F8

GSAT 6A

?? [CZ-3B/YZ-1](#) ZX-6C Zhongxing-6C

?? [Soyuz-2-1B/Fregat-M](#) [Glonass-M/ 59](#)

?? [CZ-3A](#) FY-2H Fengyun-2H

?? [CZ-2D](#) GF-6 Gaofen-6

?? [CZ-2D](#) SaudiSAT 5B

?? [Falcon 9](#) FT Es'hail 2

?? CZ YG-32 Yaogan Weixing 32

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

Feb01. [CZ-2D](#) ZH-1 Zengheng 1 ([ESEM experimental satellite on Electromagnetism Monitoring](#)), Ministar-1, Fengmaniu-1, GomX-4B, GomX-4A

Feb09. **1600UTC** [Falcon 9](#) FT [Dragon](#) SpX-14

Feb13. [Soyuz-2](#) 1A

[Progress](#) MS 8



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Feb20. CZ Taurus-1

Feb?? [Proton-M/Briz-M](#) Blagovest 12
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

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

?? [Falcon 9](#) FT [Iridium Next](#) Flight 5 (x10)
Launch site: [Vandenberg](#), USA 160

?? Epsilon (3) ASNARO 2
Launch site: [Tanegashima](#), Japan

?? [Soyuz ST](#) B/[Fregat](#)-MT O3b
?? [Soyuz-2](#)-1B Pion
?? [CZ-3B](#)/YZ-1 [Beidou 3](#) MEO M5, [Beidou 3](#) MEO M6
?? [H-2A](#) [IGS Optical-6](#)
?? [PSLV](#) XL (C41) IRNSS I
?? [CZ-2C](#) [Yaogan 30-03](#) (3 sats)

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

Mar01. [Ariane 5](#) ECA (VA242) [Hylas 4](#), [Azerspace 2](#) (Intelsat 38)

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

Mar10. [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

Mar18. [Falcon 9](#) TESS

Mar21. [Falcon 9](#) [Iridium Next](#) Flight 6 (x10)

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 140

?? KZ-1A ??
?? KZ-1A ??
?? KZ-1A ??
?? KZ-1A ??
?? [Proton-M](#)/ DM 3 Kosmos

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

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



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Apr25. [Soyuz-2 1A](#) [Soyuz MS 9 \(S56/57\)](#)
CDR: Сергей Валерьевич **Прокопьев** (Sergei Valerevich **Прокопьев**), Jeanette J. **Epps**, Alexander **Gerst**

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

Apr?? [H-2A](#) GOSAT-2
 Apr?? Epsilon OrigamiSat-1
 Apr?? [Ariane 5](#) ECA DSN 1 (Superbird-8)

?? [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](#)

May05. [Atlas 5 401](#) **InSight**
 Launch site: [Vandenberg](#), USA

May?? [Ariane 5](#) ECA GEO-KOMPSAT-2A

?? [Falcon 9](#) FT [Iridium Next](#) Flight 7 (x10)
 ?? [CZ-3B/YZ-1](#) [Beidou 3](#) MEO M7, [Beidou 3](#) MEO M8 **120**

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

June13. [Soyuz-2 1A](#) [Progress MS 9](#)

June?? CZ L2 Chang'e 4 communications relay satellite
 June?? [Falcon 9](#) [Iridium Next](#) Flight 8 (x5), GRACE FO_1, FO_2
 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 Hellas-Sat-4
 ?? CZ-5 Y3 SJ-18 02
 ?? [Vega](#) (VV11) Aeolus / ADM
 ?? [Ariane 5](#) ECA GSAT-11
 ?? [Falcon 9](#) Spaceflight SSO-A
 ?? [GSLV](#) MK III D2 GSAT-29

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

July?? [PSLV](#) [Cartosat-3](#)
July?? [Atlas 5](#) (531) (AV073) AEHF-4 **100**

?? Falcon H Arabsat 6A
 ?? [Falcon 9](#) GPS IIIA-2
 ?? [Falcon 9](#) PSN VI
 ?? [CZ-3B/YZ-1](#) Beidou 3 MEO M9, Beidou 3 MEO M10



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??	Soyuz ST B/Fregat-MT	OneWeb smalsat (x10)	
Aug??	Falcon 9 (SPx-DM2)	Dragon v2	
CDR:	Eric Boe , Sunita Williams		
Aug??	Atlas 5 422 (AV80)	CST-100 Starliner (unmanned test)	
Aug??	CZ-3C	Beidou 2 I7	
Aug??	Delta IV -M+(4,2)	GPS III-1	
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	
Sep08.	Soyuz-2 1A Soyuz MS 10 (S57/58)		
CDR:	Алексе́й Николае́вич Овчинин (Aleksei Nikolaevich Ovchinin), Никола́й Влади́мирович Тихо́нов (Nikolai Vladimirovich Tikhonov), Tyler Hague		
Sep12.	Delta II 7320-10C ICESat-II		
Sep15.	Delta 4-H NROL-71		
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)	80
??	Ariane 5 ECA	Intelsat 7C	
??	Falcon 9	Radarsat C-1, -2, C-3	
??	Falcon 9	OHB SARah satellite (x2)	
Oct05.	Ariane 5	BepiColombo ESA and ISAS Mercury Orbiters	
Oct11.	Soyuz-2	Progress MS 10	
Oct??	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.		
Oct??	Soyuz ST B/Fregat-M	MetOp-C	
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	
Nov07.	Soyuz-2 1A Soyuz MS 11 (S58/59)		
CDR:	Оле́г Дми́триевич Кононе́нко (Oleg Dmitrievich Kononenko), Serena Auñón-Chancellor , David Saint-Jaques		



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

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

?? Minotaur 1 NROL 111
 ?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x32)
 ?? [Falcon 9](#) Spaceflight GTO.C
 ?? [Soyuz-2](#) 1A / [Fregat](#) Kanopus V 5, Kanopus V 6 **60**
 ?? [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 №4
 Dec?? ?? Korean Pathfinder Lunar Orbiter
 Dec?? [Falcon 9](#) FT [Dragon](#) SpX-18

?? [Ariane 5](#) Heinrich Hertz

?? Minotaur-4 FORMOSAT-7 (6 sat)
 ?? [Delta IV](#)-M (5,4) WGS 10
 ?? [Atlas 5](#) 551 AFSPC-7
 ?? [Atlas 5](#) AEHF 5

?? [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
 ?? [Proton-M/Briz-M](#) Anik G2V

?? [Soyuz-2](#)-1B/[Fregat](#) M Meridian 18L **40**
 ?? [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

?? [Ariane 5](#) ES [Galileo-FOC](#) FM19 (Tara), [Galileo-FOC](#) FM20 (Samuel), [Galileo-FOC](#) FM21 (Anna),
[Galileo-FOC](#) FM22 (Ellen)

?? [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



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??	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
 ?? [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

29
 180

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?? [Falcon 9](#) GPS IIIA-3
 Feb?? H-2B (F9) HTV8
 Feb?? [Atlas 5](#) [Solar Orbiter](#) (SolO) (ESA) 80



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

Launch site: Восточный (Vostochniy), Cosmodrome, Russia

Mar07. Soyuz-2 1A Soyuz MS 12 (S59/60)

?? CDR: ?? Павел Владимирович **ВИНОГРАДОВ** (Pavel Vladimirovich **Vinogradov**), ?? Sergei **Kud-Sverchkov**, 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?? ?? 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

June?? [Atlas 5](#) 551 STP-03
June?? [Ariane 5](#) MTG-I1
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 60
?? [Ariane 5](#) Inmarsat-5 F5

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

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: ??, 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 N°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**



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Dec15. SLS-1 Orion (unmanned trip around the Moon) Exploration Mission 1 (Distant Retrograde Orbit (DRO) Tactical DRM

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 H	Circumlunar Dragon V2	
??	Falcon 9 v1.1	Astrium active SARah satellite	
??	Falcon 9	GPS IIIA-6	40
??	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	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	
??	Ariane 5	ViaSat-3	
??	Ariane 5	JCSat 17	
??	Soyuz-2-1A / Fregat -M	Kondor-FKA n.º 1	
??	Soyuz-2-1B / Fregat -M	Arktika M 2	
??	Proton-M/Briz-M	SkyTerra 2	20
??	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	
??	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)	



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?? 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

?? [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 USCV-3 (US Commercial Vehicles)

Mar30. **Soyuz 2-1A** [Soyuz MS 14 \(S61/62\)](#)

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

?? [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

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)



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Sep30. Soyuz 2-1A Soyuz MS 15 (S62/63)

Soichi Noguchi

Sep??	CZ	CBERS-6
Sep??	Soyuz-2-1B/Fregat-M	Glonass K2 / 15
??	CZ-2F/G	SZ-13 Shenzhou-13
??	Vega	Proba 3

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
??	??	HyspIRI
??	Antares	IMAP/STP-05
??	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
??	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	Arktika M 3
??	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



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?? [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

?? [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

?? [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)

?? 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

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

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

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



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??	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	Resurs PM - 2
??	Soyuz-2-1B/Fregat-M	Meteor M No2-4
??	Soyuz-2-1B/Fregat-M	Meteor M No3
??	Angara 1.2	Gonets x 3
??	Proton-M/Briz-M	Elektro L - 5
??	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
??	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

?? [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

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

June01. SLS Block I Orion: Exploration Mission 2 (Crew to Cislunar) Mission)

June 4-25 - Europa Clipper (Orbiter) - ~~EELV Heavy~~ SLS Block IB - ~~Canaveral~~ Kennedy LC-39B (or [January 1-17, 2023](#) 2025)

June?? [Ariane](#) 5ECA JUICE (JUperiter ICy moon Explorer)
 June?? Ariane 5 MTG-I2
 June?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-7 (US Commercial Vehicles)



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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
??	Sunkar Federatsia (unmaned)	
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
??	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
??	Soyuz-2-1B/Fregat -M	Meteor M No2-5
??	Proton-M/Briz-M	Eutelsat
??	Proton-M/Briz-M	Intelsat
??	Soyuz-2-1B/Fregat -M	Smotr R №2
??	Soyuz-2-	Razdan 2
??	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
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)



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

?? [Vega](#) Sentinel-2A 2nd Gen

?? CZ SPORT (Solar Polar Orbit Radio Telescope)
 ?? CZ FY-4D Fengyun-4D

?? [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)

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-2-1B/Fregat-M](#) Meteor MP No1



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??	Soyuz-2-1A	Obzor P -1
??	Soyuz-2-1B/Fregat-M	Razdan - 3
??	??	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
??	Angara A%/DM-03	Elektro M -1
??	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)
??	Angara A5P/DM03	Bumerang (FobosGrunt 2)