



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (20.11.2017.)

2017.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in red. Last change 20.Nov.2017.

- Nov21.** **CZ-6** **HY-3A Haiyang-3A**
Launch site: [Taiyuan](#), China
- Nov 24. 1810UTC** **CZ-2C** **CX-5 Chuangxin-5 (YG-30 02 Yaogan Weixing -30 02)**
Launch site: [Xichang](#), China
- 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 20
- Dec01.** **Soyuz-2-1B** **Lotos-S1 14F145**
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia
- Dec04. 1952UTC** **Falcon 9** **Dragon SpX-13**
Launch site: [Cape Canaveral](#), USA
- Dec07.** **Zenit 3-SLB / DM-SLB** **AngoSat**
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan
- 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 10
- Dec23. 0126UTC** **Falcon 9** **Iridium Next Flight 4 (x10)**
Launch site: [Vandenberg](#), USA



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Dec25. 0100UTC SS-520-4

Tricom-1R

Launch site: [Tanegashima](#), Japan

Dec25. CZ-2D

GJ-1 GaoJing-1 03/04

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

??

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

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

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

Launch site: [Xichang](#), China

?? [Falcon 9](#)

Mission 1390 - Zuma (no info about!!)

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

?? Unha-3

Kwangmyŏngsŏng-5

16 + (4)

76 + (23)

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

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?? [PSLV](#) C41

IRNSS 1-I

180

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

GSAT 6A

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

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

?? [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 31

?? 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



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- Feb04.** [Proton-M/Briz-M](#) **Blagovest 12**
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan
- Feb09.** [Falcon 9](#) FT [Dragon](#) SpX-14
- Feb13.** [Soyuz-2 1A](#) [Progress MS 8](#)
- Feb20.** **CZ** **Taurus-1**
- Feb?? [Falcon 9](#) FT Bangabandhu-1
Feb?? [Falcon 9](#) FT SES-12
- ?? [Falcon 9](#) FT [Iridium Next](#) Flight 5 (x10)
Launch site: [Vandenberg](#), USA
- ?? Epsilon (3) ASNARO 2
Launch site: [Tanegashima](#), Japan
- ?? [Soyuz ST](#) B/[Fregat](#)-MT O3b 160
?? [Soyuz-2](#)-1B Pion
?? [CZ-3B](#)/YZ-1 [Beidou 3](#) MEO M5, [Beidou 3](#) MEO M6
?? [H-2A](#) [IGS Optical-6](#)
- 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
- ?? [Rokot / Briz KM](#) Geo IK 2
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia
- ?? Pegasus-XL ICON ([Helio EX-1](#))
Launch site: [Kwajalein Atoll](#), USA
- ?? KZ-1A ??
?? KZ-1A ??
?? KZ-1A ??
?? KZ-1A ??
?? [Proton-M](#)/ DM 3 Kosmos 140
- Apr01.** [Falcon 9](#) (SPx-DM1) **Dragon v2 unmanned test**



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

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
 May?? [Soyuz ST](#) B/Fregat-MT OneWeb smalsat (x10)

?? [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](#)

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 **120**
 June?? [Falcon 9](#) SAOCAM 1A

?? [GSLV](#) MK II F11 GSAT-10A
 Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

?? [Proton-M](#) PTK NP
 ?? [Vega](#) TARANIS
 ?? [Soyuz ST](#) CSO 1
 ?? [Vega](#) Prisma
 ?? [Proton-M/Briz-M](#) Kosmos
 ?? [Proton-M/ DM-03](#) [Glonass-M/](#) ??
 ?? [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-20

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

July?? [PSLV](#) Oceansat-3



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?? Falcon H Arabsat 6A
 ?? [Falcon 9](#) GPS IIIA-2
 ?? [Falcon 9](#) PSN VI 100
 ?? [CZ-3B/YZ-1](#) Beidou 3 MEO M9, Beidou 3 MEO M10

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 Glonass K1 / 16
 ?? [Atlas 5](#) (531) (AV073) AEHF-4
 ?? [Soyuz-2](#)-1B/[Fregat](#)-M Meteor M-2-2, Ionosfera 3, Ionosfera 4

Sep08. [Soyuz-2 1A](#) [Soyuz MS 10 \(S57/58\)](#)

CDR: Алексей Николаевич Овчинин (Aleksei Nikolaevich Ovchinin), Николай Владимирович Тихонов (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

?? [Soyuz-2](#) 1B/[Fregat](#)-M Glonass K1 / 17
 ?? [Ariane 5](#) ECA EDRS-C (Hylas 3)
 ?? [Ariane 5](#) ECA Intelsat 7C 80
 ?? [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 Spektr-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

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



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?? [Ariane 5](#) ECA Intelsat 39
 ?? [Ariane 5](#) Horizon 3e

Nov07. [Soyuz-2 1A](#) [Soyuz MS 11 \(S58/59\)](#)

CDR: Олѐг Дмїтриевич Кононѐнко (Oleg Dmitrievich Kononenko), Serena **Auñón-Chancellor**, David **Saint-Jaques**

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)
 ?? [Soyuz-2](#) 1B /[Fregat](#)-M Glonass K1 / 15
 ?? [Falcon 9](#) Spaceflight GTO.C

Dec20. [Proton-M](#) **MLM** 60

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

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

?? [Soyuz-2](#) 1A / [Fregat](#) Kanopus V 5, Kanopus V 6
 ?? [Proton-M/Briz-M](#) EutelSat 5 West B / MEV
 ?? [Proton-M/Briz-M](#) Kosmos

?? [Proton-M/Briz-M](#) Ямал-601
 ?? [Proton-M/Briz-M](#) Ямал-GK-1
 ?? [Proton-M/Briz-M](#) EgyptSat 3
 ?? [Proton-M/Briz-M](#) Anik G2V

?? [Soyuz-2-1B/Fregat](#) M Meridian 18L
 ?? [Soyuz-2](#) 1A Bars-M 3 40
 ?? [Soyuz-2](#) 1A Energiya-100
 ?? [Soyuz-2-1B/ Fregat](#)-M Glonass M 55
 ?? [Soyuz-2-1B](#) Obzor R -1

?? [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)



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??	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	
??	CZ-3B/E	CongoSat 1	20
??	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
??	PSLV		ScatSat, NovaSAR
??	Safir 1 B	Tadbir	
??	Safir 3A	Pars sepheer	
??	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



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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
??	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 Vechile)	
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)			
Sep??	Soyuz-2-1B/Fregat -M	Glonass K1 / 22	
Oct??	CZ-3B/YZ-1	Beidou 3 MEO M19, Beidou 3 MEO M20	
Oct??	Soyuz-2 1B /Fregat -M	Gonets x 3 (No 27,28,29)	
Oct??	Soyuz-2 1B /Fregat -M	Resurs №5	
Oct??	Falcon 9 FT	Dragon SpX-20	
Oct??	Atlas 5 552	Dream Chaser Cargo System SNC-1	
Oct??	Soyuz-2	Progress MS 13	



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Nov14.	Soyuz-2 1B	Progress M-UM	
Nov29.	Soyuz-2 1a / Fregat	Luna 25 (Luna-Glob-1)	
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/Briz-M	Ямал-501	
??	Proton-M/Briz-M	EutelSat	
??	Proton-M/Briz-M	IntelSat	
??	Soyuz-2-1B / Fregat M	Meridian 19L	
??	Soyuz-2-	Razdan 1	
??	Soyuz-2-1B / Fregat -M	Glonass-M/ 53	
??	Soyuz-2-1B / Fregat	Glonass M/ 58	
??	Soyuz-2-1B / Fregat	Glonass M / 59	
??	Soyuz-2-1B / Fregat	Glonass M / 60	



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??	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
??	PSLV XL	Aditya'

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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)
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)
Aug05.	Proton-M/Briz-M	ExoMars An ESA exobiology rover equipped with a deep drill developed by Astrium Satellites in the United Kingdom will launch in 2018. A Russian-built entry, descent and landing package will shepherd the rover to the red planet's surface.



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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	Arktika M 3
??	Soyuz-2-1B/Fregat-M	Glonass K2
??	Soyuz-2-1B/Fregat-M	Resurs PM - 1
??	Soyuz-2-1B/Fregat-M	Meteor M No2-3
??	Angara 1.2	Kompsat-6
??	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



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??	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)
??	Atlas 5 552	Dream Chaser Cargo System SNC-2
??	SLS Block I	Europa Clipper



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??	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 - ~~Canaverat/~~ 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)
 ?? Sunkar ??
 ?? [Soyuz-2](#) [Progress MS 21](#)



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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)
??	Sunkar Federatsia (unmaned flight to ISS)	



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?? 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 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-2-1B/Fregat-M	Meteor MP No1
??	Soyuz-2-1A	Obzor P -1
??	Soyuz-2-1B/Fregat-M	Razdan - 3



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??	??	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 A5P/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)