



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (16.4.2018.)

2018.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in red. Last change 16.Apr.2018.

- Apr16. 2232UTC** [Falcon 9](#) [TESS](#)
Launch site: [Cape Canaveral](#), USA 140
- Apr18. 2212UTC** [Proton-M/Briz-M](#) [Blagovest 12](#)
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan
- Apr20. 0030UTC** [Electron](#) **Outerspace 1, Lemur**
Launch site: [Kaitorete Spit](#), New Zeland
- Apr25. 1757UTC** [Rokot / Briz KM](#) [Sentinel 3B](#)
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia
- May02.** **CZ-4B** **GF-5** [Gaofen-5](#)
Launch site: [Taiyuan](#), China
- May04.** [Falcon 9](#) [Bangabandhu-1](#)
Launch site: [Cape Canaveral](#), USA
- May05. 1105UTC** [Atlas 5](#) 401 AV-078 [InSight](#)
Launch site: [Vandenberg](#), USA
- May06.** [CZ-3B/G2](#) [APStar-6C](#)
Launch site: [Xichang](#), China
- May19. 2003UTC** [Falcon 9](#) [Iridium Next](#) Flight 6 (x5), GRACE FO_1, FO_2 Launch site: [Vandenberg](#), USA
- May20.** [Antares](#) 230 [Cygnum](#) Orb-9E
Launch site: [Wallops Island](#), USA
- May21.** [CZ-3B/G2](#) **L2 Chang'e 4 communications relay satellite**
Launch site: [Xichang](#), China
- May25.** [Ariane 5 ECA](#) (VA243) [GSAT-11](#), [Azerspace 2](#) (Intelsat 38)
Launch site: [Kourou](#), French Guiana
- May30.** [Vega](#) [Prisma](#)
Launch site: [Kourou](#), French Guiana
- May?? [Falcon 9](#) SES-12
Launch site: [Cape Canaveral](#), USA
- May?? [Soyuz-2-1B/ Fregat](#)-M Glonass M 59
May?? [CZ-3B/YZ-1](#) [Beidou 3](#) MEO M7, [Beidou 3](#) MEO M8
May?? [Electron](#) ELaNa, ...
- ?? KZ-1A Jilin 1-09
?? KZ-1A Jilin 1-10



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??	KZ-1A	Jilin 1-11	
??	KZ-1A	Jilin 1-12	120
June06.	Soyuz-2 1A Soyuz MS 9 (S56/57)		
CDR:	Сергей Валерьевич Прокопьев (Sergei Valerevich Prokopyev), Serena Auñón-Chancellor, Alexander Gerst		
June10.	CZ-3A	FY-2H Fengyun-2H	
June11.	0400UTC H-2A	IGS Radar-6	
June12.	CZ-2D	GF-6 Gaofen-6, LJ-1 Luojia-1	
June13.	1428UTC Pegasus-XL	ICON (Helio EX-1)	
Launch site: Kwajalein Atoll , USA			
June28.	Falcon 9	Dragon SpX-15	
Launch site: Cape Canaveral , USA			
June??	Rokot / Briz KMGeo IK 2	13L	
Launch site: Плесецк (Plesetsk) Cosmodrome, Russia			
June??	CZ-2C	Pakistani Remote Sensing Satellite (PRSS) 1	
Launch site: Taiyuan , China			
June??	Falcon 9	Iridium Next Flight 7 (x10)	
June??	GSLV MK III D2	GSAT-29	
June??	Falcon 9	Telstar 19	
??	KZ-11	Xiaoxiang-4	
??	Angara A5/ Briz-M	Kosmos	
July05.	Falcon 9	Spaceflight SSO-A	
July10.	Soyuz-2 1A	Progress MS 9	
July31.	0815UTC Delta 4-H	Parker Solar Probe	
July??	Ariane 5 ES (VA244)	Galileo-FOC FM19 (Tara), Galileo-FOC FM20 (Samuel), Galileo-FOC	
FM21 (Anna), Galileo-FOC FM22 (Ellen)			
July??	Soyuz-2 1A	Bars-M 3	
July??	Falcon 9	Radarsat C-1, -2, C-3	
July??	Falcon Heavy	STP-02	100
??	CZ-11	Zhuhai-1	
Launch site: Jiuquan , China			
??	CZ-3B/YZ-1	Beidou 3 MEO M9, Beidou 3 MEO M10	
??	Ariane 5 ECA	GEO-KOMPSAT-2A	
??	Falcon 9	Telstar 18	
??	Falcon 9	Telkom 4	
Aug16.	H-2B (F7)	HTV7	
Aug30.	Atlas 5 N22 (AV80)	CST-100 Starliner (unmanned test)	



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Aug30. [Falcon 9](#) (SPx-DM1) **Dragon v2 unmanned test**

Aug?? [CZ-3C](#) Beidou 2 I7
 Aug?? [CZ-11](#) OKW-2
 Aug?? [Falcon 9](#) [Iridium Next](#) Flight 8 (x10)

?? [PSLV](#) C42 ??

Sep12. 1246UTC **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**

Sep17. [Soyuz ST B/Fregat-M](#) **MetOp-C**

Sep26. **Delta 4-H NROL-71**

Sep?? [Proton-M/ DM-03](#) [Glonass K](#)
 Sep?? [Falcon 9](#) GPS III-1
 Sep?? [CZ-2C](#) CFOSAT (China-France Oceanography SATellite)
 Sep?? [Vega](#) (VV12) Aeolus / ADM 80
 Sep?? [Falcon 9](#) SAOCAM-1A, ITASAT-1

?? [Ariane 5](#) ECA Eutelsat 7C
 ?? [Falcon 9](#) OHB SARah satellite (x2)
 ?? [Ariane 5](#) ECA Hellas-Sat-4
 ?? [Proton-M/Briz-M](#) EutelSat 5 West B / MEV
 ?? [H-2A](#) GOSAT-2

Oct05. [Ariane 5](#) [BepiColombo](#) ESA and ISAS Mercury Orbiters

Oct11. [Soyuz-2](#) [Progress MS 10](#)

Oct18. [Atlas 5 \(531\) \(AV073\)](#) **AEHF-4**

Oct22. [Proton-M/Briz-M](#) **Elektro L – 3**

Oct?? [Atlas 5](#) 422 (AV082) CST-100 Starliner
CDR: Douglas **Hurley**, Robert **Behnken**

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

Oct?? [GSLV](#) Mk II D9 Chandrayaan 2
 Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

Oct?? [CZ-3C](#) Beidou 3 G1Q
 Oct?? [Soyuz-2-1B/Fregat-M](#) [Glonass-M](#) 60

?? [Ariane 5](#) Horizon 3e
 ?? [Falcon H](#) Arabsat 6A

Nov08. [Antares 230](#) [Cygnum Orb-10E](#)

Nov18. [Falcon 9](#) FT [Dragon SpX-16](#)



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Nov?? [Delta IV](#)-M (5,4) WGS 10 60
 Nov?? [CZ-5](#) Y3 SJ-18 02 (DFH-5 platform)
 Nov?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x32)

?? [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
 ?? [Falcon 9](#) PSN VI

Dec31. [Falcon 9](#) (SPx-DM2) Dragon v2
CDR: Eric **Boe**, Sunita **Williams**

Dec?? [Soyuz-2](#) 1A [Soyuz MS](#) 11 (S58/59)
CDR: Олѐг Дмїтриевич Кононѐнко (Oleg Dmitrievich **Kononenko**), Anne McClain (**NASA**), David **Saint-Jaques**

Dec?? [CZ-3B](#)/GIII Chang'e-4 (Moon far side Aitken Basin lander/rover)
 Dec?? ?? Korean Pathfinder Lunar Orbiter
 Dec?? [Soyuz ST](#) B/[Fregat](#)-MT CHEOPS (Characterising ExOPlanet Satellite)
 Dec?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x10)
 Dec?? [Soyuz-2](#)-1B/[Fregat](#) M Meridian 18L
 Dec?? [Soyuz-2](#)-1B/ [Fregat](#)-M Glonass K 15
 Dec?? [Soyuz-2](#) 1A / [Fregat](#) Kanopus V 5, Kanopus V 6
 Dec?? [Soyuz-2](#)-1B/[Fregat](#)-M Meteor M-2-2, Ionosfera 3, Ionosfera 4

?? [Zenit 3 SL](#) /[Fregat](#)-SB Lybid'
 Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

?? [Falcon 9](#) Es'hail 2 40

?? [Soyuz-2](#) 1B /[Fregat](#)-M Tundra 3
 ?? [Soyuz-2](#) 1B /[Fregat](#)-M Tundra 4
 ?? [Soyuz-2](#) 1B /[Fregat](#)-M Neutron (Kosmos)

?? 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-3B](#)/YZ-1 Beidou 3 MEO M15, Beidou 3 MEO M16
 ?? [CZ-3B](#)/YZ-1 Beidou 3 MEO M17, Beidou 3 MEO M18

?? ?? Taurus-1
 Launch site: [Taiyuan](#), China

?? [CZ-2D](#) SJ-12 Shijian-12 (2)
 ?? [CZ-2D](#) TH-2 Tianhui-2
 ?? [CZ-2C](#) CSES-1 Earthquake electromagnetism monitor satellite
 ?? ?? VeneSat-2
 ?? [CZ-3B/E](#) CC-1 [Changcheng-1](#)



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??	CZ	Deep Space Solar Observatory	
??	CZ-2	CAS-2A1, CAS-2A2	
??	CZ-3B/E	CongoSat 1	
??	??	Small Military Meteorological Satellite (x6)	20
??	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	
??	CZ	Huaizong-1	
??	LS-1	LandSpace-1 (China)	
??	CZ-3B/YZ-1	ZX-6C Zhongxing-6C	
??	CZ-2D	SaudiSAT 5B	
??	CZ	YG-32 Yaogan Weixing 32	
??	CZ??	Tianzhi-1	
??	GSLV MK II	F12	GSAT-7A
??	Simorgh	Dosti	
Launch site: Semnan , Iran			
??	Safir 1 B	Tadbir	
??	Safir 3A	Pars sepher	
??	Unha-3	Kwangmyŏngsŏng-5	
??	Tronador II/VEX5	TBD (suborbital)	
Launch site: Puerto Belgrano, Argentina			

7 + 22
36 + 140

2019.

Jan??	Proton-M/Briz-M	Ямал-601	120
??	Falcon 9	SAOCAM-1B, SAOCAM-1C	
Feb01.	Falcon 9	Dragon SpX-17	
Feb06.	Soyuz-2	Progress MS 11	



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Feb?? [CZ-3C](#) Beidou 3 I1Q
Feb?? [Atlas 5](#) 551 (AV-086) AEHF-6

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

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

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

Mar?? [Ariane 5](#) ECA GEO-KOMPSAT-2B , Cheollian 2B
Mar?? [Falcon 9](#) GPS IIIA-2

?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x32)
?? [Soyuz-2-1B](#)/[Fregat](#) Glonass K2 / 13
?? [Ariane 5](#) ECA EDRS-C (Hylas 3)
?? [Soyuz-2-1B](#) EgyptSat A
?? [Soyuz ST](#) B/[Fregat](#)-MT Cosmo-SkyMed Secon Gen 1 CSG-1
?? [Vega](#) TARANIS

?? [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-11 100
Apr?? [Falcon 9](#) Dragon v2 (USCV-1) with 2 astronauts
Apr?? [Soyuz-2](#) [Progress MS 12](#)

May?? Soyuz 2-1A [Soyuz MS 13 \(S60/61\)](#)
CDR: **Скворцов** (Alexander **Skvortsov**), Luca **Parmitano** (ESA), Andrew **Morgan** (NASA)

May?? [Atlas 5](#) 402 CST 100 Starliner (USCV-2) with 2 astronauts
May?? [Falcon 9](#) FT [Dragon](#) SpX-18
May?? CZ CBERS-4A

June?? [Atlas 5](#) 551 STP-03
June?? [CZ-5](#) B Test flight

?? [PSLV](#) RISAT 1A
?? [CZ-3B/G2](#) TECSTAR 1
?? SSLV ??
?? [Soyuz ST](#) B/[Fregat](#)-MT [O3b](#) (FM17-20)
?? [GSLV](#) MK II F10 GISAT
?? [PSLV](#) Cartosat-3

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

?? [Ariane 5](#) Inmarsat-5 F5

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



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Aug??	Soyuz-2	Progress MS 13	
Aug??	Proton-M	MLM	80
??	Delta IV	GPS IIIA-3	
Sep??	Soyuz 2-1A	Soyuz MS 14 (S61/62)	
CDR: Борисенко (Andrei Borisenko), Чуб ,(Nikolai Chub), Christina Koch			
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??	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)	
CDR: ??(NASA), ??(NASA), ??(RF)			
??	Soyuz-2 -1B/ Fregat -M	Glonass K2 / 14	
??	Proton-M / Briz-M	Blagovest 14	
??	Falcon 9	GPS IIIA-4	
??	Vega	Seosat (Ingenio)	
Dec??	CZ-3B/YZ-1	Beidou 3 MEO M21, Beidou 3 MEO M22	
Dec??	Proton-M / Briz-M	Ekspress 80, Ekspress 103	
??	Atlas 5 551	AFSPC-7 (X-37B OTV 6)	
??	Falcon 9	Astrium active SARah satellite	
??	Atlas 5 551	Asteroid Retrieval Spacecraft (ARS)	
??	??	EX-3	60
??	Falcon 9	GiSat-1	
??	Vega	Jason-CS A	
??	Vega	OpSis	
??	Vega	VNREDSat	
??	Vega	LOTUSat	
??	Ariane 5 ECA	Eutelsat Quantum	
??	Ariane 5 ECA	African Broadband Satellite	
??	Ariane 5 ECA	Intelsat 39	
??	Soyuz ST / Vega	MicroCarb	
??	Soyuz ST B/ Fregat -MT	Sentinel-1C	
??	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	
??	Soyuz-2 1B / Fregat -M	Glonass M 61	
??	Proton-M / DM-03	Glonass-M /	56,57,58
??	Soyuz-2 1B / Fregat -M	Glonass K1 / 17	
??	Proton-M / DM-03	Glonass-M /K18,K19,K20	



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??	Proton-M/ DM-03	Glonass-M/K21,K22,K23	40
??	Soyuz-2 1B /Fregat-M	Glomass K1 / 16	
??	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 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	Anik G2V	
??	Proton-M	PTK NP	
??	Soyuz-2-1B	Obzor R -1	
??	Soyuz-2 1A	Energiya-100	
??	Soyuz-2-1B	Pion	
??	Soyuz-2-1B/ Fregat-M	Glomass K2	
??	Soyuz-2-1B/Fregat	Glomass K2	
??	Proton-M/ DM 3	Kosmos (Repei??)	
??	Proton-M/ DM-03	Glonass-M	
??	Soyuz-2-1B	Arktika	20
??	Soyuz-2 1B /Fregat-M	Resurs №4	
??	Soyuz-2-1B/Fregat-M	Kondor-FKA n.º 1	
??	Proton-M/Briz-M	Ekspress AMU 3 / Ekspress AMU 7	
??	Soyuz ST	CSO 1	
??	Soyuz ST B/Fregat-MT	OneWeb smalsat (x32)	
??	CZ-5	Chang'e-5 (Sample return)	
??	CZ-7	New generation manned spacecraft	
??	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	
??	CZ	CBERS-SAR 1	
??	??	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

120

2020.

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

Feb05. [Atlas 5](#) [Solar Orbiter \(SoLO\)](#) (ESA)

Feb?? H-2B (F10) HTV9
Feb?? [Soyuz-2](#) [Progress MS](#) 14

Mar30. [Soyuz 2-1A](#) [Soyuz MS 15 \(S62/63\)](#)
CDR: **Рыжиков** (Sergei Ryshikov), Jessica **Meir** (NASA), Soichi **Noguchi** (JAXA)

Mar?? [Delta IV](#)-M DMSP-5D3 F20
Mar?? [Soyuz-2-1B/Fregat](#)-M Glonass K1 / 22
Mar?? [Atlas 5](#) 551 AFSPC-12 (WFOV (Wide Field of View Testbed missile-warning satellite))

?? [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)
Apr?? [Falcon 9](#) FT [Dragon](#) SpX-21

?? CZ7 TZ 2 Tianzhou 2 (Logistic Cargo Vehicle)
?? CZ-2F/G SZ-12 Shenzhou-12

May?? [Atlas 5](#) 402 USCV-4 (US Commercial Vehicles)
May?? [Soyuz-2](#) [Progress MS](#) 15
May?? [Ariane 5](#) ES JWST (James Webb Space Telescope)

?? [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
June?? [Atlas 5](#) 551 AFSPC-8 (GSSAP 5, GSSAP 6)

July16 [Ariane 62](#) [Galileo-FOC FM23, Galileo-FOC FM24](#)

July17. [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.

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.



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July??	CZ-3C	Beidou 3 G2Q
July??	CZ-5	Mars probe (orbiter + lander + rover)
??		Vega-C Pleiades Neo 1, Pleiades Neo 2
Sep30.	Soyuz 2-1A	Soyuz MS 16 (S63/64)
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)
Nov??	Soyuz-2	Progress MS 16
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	H3M-1
??	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.		



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??	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
??	CZ-5	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
??	PSLV	EnMap
??	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 17](#)

Cdr: xx, Akihiko **Hoshide**, xx

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

?? [CZ-5 B](#) Wentian Lab module Space station module

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)



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??	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 18
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
??	Ariane 5	Heinrich Hertz
??	Atlas 5 552	Dream Chaser Cargo System SNC-2
??	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.



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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 19](#)

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

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

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

June?? [Ariane 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 20](#)

Sep?? [Soyuz ST](#) B/[Fregat](#)-MT MetOp-SG B1

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

?? Sunkar Federatsia (unmanned)

?? [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](#) Ekspres – AMU 5
 ?? [Proton-M/Briz-M](#) Ekspres – AMU 6
 ?? [Proton-M/Briz-M](#) Ekspres – RV 3, Ekspres – 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.



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??	Soyuz-2	Progress MS 23	
Mar30.	Soyuz-2-1A	Soyuz MS 21	
??	CZ7	TZ 5 Tianzhou 5 (Logistic Cargo Vehicle)	
??	CZ-2F/G	SZ-16 Shenzhou-16	
May??	Atlas 5 402 / Falcon 9	USCV-10 (US Commercial Vehicles)	
??	Soyuz-2	Progress MS 24	
Sep30.	Soyuz-2-1A	Soyuz MS 22	
??	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 (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	
??	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 23	
??	CZ7	TZ 6 Tianzhou 6 (Logistic Cargo Vehicle)	
May??	Atlas 5 402 / Falcon 9	USCV-12 (US Commercial Vehicles)	



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Sep30.

[Soyuz-2-1A](#)

[Soyuz MS 24](#)

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	
??	Lapan	Pengorbitan-1 (RPS-01) (Indonesia)	

2025

??	SLS Block IA II		Orion: Exploration Mission 5 (Crew to Cislunar)
??	Soyuz-2-1A	Soyuz MS 25	
??	Soyuz-2	Progress MS 29	
??	SLS Block I	Europa Clipper	
??	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 (<i>Venera D</i>) would be launched
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??	CZ	Jupiter Orbiter	
??	CZ	Mars Sample Return	
??	CZ	Chang'e-8 (Moon north pole landing)	
??	Angara	A5/DM03	Bumerang (FobosGrunt 2)

2069.

??	??	Interstellar mission
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