



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (21.5.2018.)

2018.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in **red**. Last change **21.May.2018**.

May21. 0839UTC [Antares 230](#) [Cygnum Orb-9E](#)
Launch site: [Wallops Island](#), USA

May22. 1947UTC [Falcon 9](#) [Iridium Next Flight 6 \(x5\)](#), [GRACE FO_1](#), [FO_2](#) Launch site: [Vandenberg](#), USA

May31. 0429UTC [Falcon 9](#) [SES-12](#)
Launch site: [Cape Canaveral](#), USA

June06. 1112UTC [Soyuz-2 1A](#) [Soyuz MS 9 \(S56/57\)](#)
CDR: Сергей Валерьевич **Прокопьев** (Sergei Valerevich **Prokopyev**), Serena **Auñón-Chancellor**, Alexander **Gerst**
Launch site: [Байконур \(Baikonur\) Cosmodrome](#), Kazakhstan

June10. [CZ-3A](#) [FY-2H Fengyun-2H](#)

June11. 0400UTC [H-2A](#) [IGS Radar-6](#)

June13. 1428UTC [Pegasus-XL](#) [ICON \(Helio EX-1\)](#)
Launch site: [Kwajalein Atoll](#), USA

June17. [Falcon 9](#) [Telstar 19](#) 120

June17. [Soyuz-2-1B/ Fregat-M](#) [Glonass-M 59](#)
Launch site: [Плесецк \(Plesetsk\) Cosmodrome](#), Russia

June28. 1003UTC [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?? [Electron](#) [Outerspace 1](#), Lemur
Launch site: [Kaitorete Spit](#), New Zeland

June?? [GSLV MK III](#) D2 [GSAT-29](#)
June?? [CZ-3B/YZ-1](#) [Beidou 3](#) MEO M7, [Beidou 3](#) MEO M8

?? [KZ-11](#) [Xiaoxiang-4](#)
?? [Electron](#) [ELaNa](#), ...
?? [KZ-1A](#) [Jilin 1-09](#)
?? [KZ-1A](#) [Jilin 1-10](#)
?? [KZ-1A](#) [Jilin 1-11](#)
?? [KZ-1A](#) [Jilin 1-12](#)



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July02.	Falcon 9	Telstar 18	
July09. 2151UTC	Soyuz-2 1A	Progress MS 9	
	Launch site: Байконур (Baikonur) Cosmodrome, Kazakhstan		
July09.	Falcon 9	Iridium Next Flight 7 (x10)	
July25. 1124UTC	Ariane 5 ES (VA243)	Galileo-FOC FM19 (Tara) , Galileo-FOC FM20 (Samuel) , Galileo-FOC FM21 (Anna) , Galileo-FOC FM22 (Ellen)	
July31. 0815UTC	Delta 4-H	Parker Solar Probe	
July??	Soyuz-2 1A	Bars-M 3	
July??	Soyuz-2-1B/ Fregat-M	Glonass-M 56	100
??	CZ-3B/YZ-1	Beidou 3 MEO M9, Beidou 3 MEO M10	
Aug16.	H-2B (F7)	HTV7	
Aug21. 2120UTC	Vega (VV12)	Aeolus / ADM	
Aug??	Ariane 5 ECA	Azerspace 2 (Intelsat 38)	
	Launch site: Kourou , French Guiana		
Aug??	CZ-3C	Beidou 2 I7	
Aug??	CZ-11	OKW-2	
Aug??	Falcon 9	Telkom 4	
??	PSLV C42	??	
??	Rokot / Briz KM	Rodnik	
??	Falcon 9	Iridium Next Flight 8 (x10)	
??	Falcon 9	Es'hail 2	
Sep12. 1246UTC	Delta II 7320-10C	ICESat-II	
Sep19. 0047UTC	Soyuz ST B/Fregat-M	MetOp-C	
Sep26.	Delta 4-H	NROL-71	
Sep30.	Falcon 9	Spaceflight SSO-A	
Sep??	CZ-2C	CFOSAT (China-France Oceanography SATellite)	
Sep??	Falcon 9	SAOCAM-1A, ITASAT-1	
Sep??	GSLV MK II F12	GSAT-7A	
??	Ariane 5 ECA	Eutelsat 7C	
??	Falcon 9	OHB SARah satellite (x2)	80
??	Ariane 5 ECA	Hellas-Sat-4	
??	Proton-M/Briz-M	EutelSat 5 West B / MEV	
??	H-2A	GOSAT-2	
??	Ariane 5 ECA	GEO-KOMPSAT-2A (GK2A, Cheollian 2A)	
Oct05.	Ariane 5	BepiColombo ESA and ISAS Mercury Orbiters	
Oct05.	Atlas 5 (531) (AV073)	AEHF-4	



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- Oct11. 0840UTC** [Soyuz-2 1A](#) [Soyuz MS 10 \(S57/58\)](#)
CDR: Алексей Николаевич **Овчинин** (Aleksei Nikolaevich **Ovchinin**), Tyler **Hague**
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan
- Oct22.** [Proton-M/Briz-M](#) **Elektro L – 3**
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan
- Oct30.** [Falcon Heavy](#) **STP-02**
- Oct31. 0053 UTC** [Soyuz-2 1A](#) [Progress MS 10](#)
- 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
 Oct?? [Falcon 9](#) GPS III-1
- ?? [Falcon 9](#) (SPx-DM1) Dragon v2 unmanned test
- ?? [Ariane 5](#) Horizon 3e
 ?? [Falcon 9](#) Radarsat C-1, -2, C-3
 ?? [CZ-2D](#) GF-6 Gaofen-6, LJ-1 Luojia-1
- Nov08.** [Antares](#) 230 [Cygnus Orb-10E](#) 60
- Nov18.** [Falcon 9](#) FT [Dragon SpX-16](#)
- Nov27.** [Atlas 5](#) N22 (AV80) **CST-100 Starliner (unmanned test)**
- Nov?? [Vega](#) [Prisma](#)
Launch site: [Kourou](#), French Guiana
- Nov?? [CZ-5](#) Y3 SJ-18 02 (DFH-5 platform)
 Nov?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x10)
 Nov?? [Proton-M/Briz-M](#) Blagovest 13
- ?? [Epsilon](#) (4) Inovative Technology Demonstration Satellite – 1, OrigamiSat-1
Launch site: [Tanegashima](#), Japan
- ?? Minotaur 1 NROL 111
 ?? [CZ-2D](#) GF-7 Gaofen-7
 ?? [CZ-3B/E](#) Apstar-6D
 ?? [Falcon 9](#) PSN VI
- Dec13.** [Delta IV-M](#) (5,4) **WGS 10**
- Dec20. 0452UTC** [Soyuz-2 1A](#) [Soyuz MS 11 \(S58/59\)](#)
CDR: Олѐг Дмїтриевич **Кононѐнко** (Oleg Dmitrievich **Kononenko**), Anne McClain (**NASA**), David **Saint-Jaques**
- Dec31.** [Falcon 9](#) (SPx-DM2) **Dragon v2**
CDR: Eric **Boe**, Sunita **Williams**



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Dec?? [CZ-3B/GIII](#) Chang'e-4 (Moon far side Aitken Basin lander/rover)
 Dec?? [Soyuz ST B/Fregat-MT](#) CHEOPS (Characterising EXOPlanet Satellite)
 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

?? [Zenit 3 SL /Fregat-SB](#) Lybid'
 Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan 40

?? Minotaur-4 FORMOSAT-7 (6 sat)
 ?? [Atlas 5](#) AEHF 5

?? [Soyuz-2 1B /Fregat-M](#) Neutron (Kosmos)
 ?? [Angara A5/ Briz-M](#) Kosmos (Repei)

?? [Vega](#) MN35-13 B [Morocco EO Sat 1 2](#)

?? [Ariane 5](#) ECA [GSAT-11](#)

?? [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](#)
 ?? 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



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??	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	
??	PSLV	Cartosat-3	
??	Simorgh	Dosti	
Launch site: Semnan , Iran			
??	Safir 1 B	Tadbir	
??	Safir 3A	Pars sepher	
??	Unha-3	Kwangmyŏngsŏng-5	

9 + 20
45 + 127

2019.

Jan??	Proton-M/Briz-M	Ямал-601	120
??	Falcon 9	SAOCAM-1B, SAOCAM-1C	
??	Soyuz-2-1B/Fregat-M	Meteor M-2-2, Ionosfera 3, Ionosfera 4	

Feb07. 0920UTC [Soyuz-2](#) [Progress MS 11](#)

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			
??	Vega	SSMS POC (Small Spacecraft Mission Service Proof Of Concept)	
Mar??	Ariane 5 ECA	GEO-KOMPSAT-2B , Cheollian 2B	
Mar??	Falcon 9	GPS IIIA-2	
Mar??	Falcon 9	Dragon SpX-17	
??	Atlas 5 422 (AV082)	CST-100 Starliner	
CDR: Douglas Hurley , Robert Behnken			
??	Soyuz ST B/ Fregat -MT	OneWeb smalsat (x32)	
??	Soyuz-2-1B/Fregat	Glonass K2 / 13	
??	Soyuz-2-1B	EgyptSat A	
??	Soyuz ST B/ Fregat -MT	Cosmo-SkyMed Secon Gen 1 CSG-1	

?? [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.

Apr05. [Soyuz-2 1A](#) [Soyuz MS 12 \(S59/60\)](#)



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

Apr??	??	GOES-T	
Apr??	CZ-3B/E	Nicasat 1	100
Apr??	CZ-3C	Beidou 3 I2Q	
Apr??	Atlas 5 531	Cygnus OA-11	
Apr??	Falcon 9	Dragon v2 (USCV-1) with 2 astronauts	
Apr??	Soyuz-2	Progress MS 12	
May??	Atlas 5 402	CST 100 Starliner (USCV-2) with 2 astronauts	
May??	Falcon 9 FT	Dragon SpX-18	
May??	CZ	CBERS-4A	
May??	Ariane 5 ECA	EDRS-C (Hylas 3)	
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	
??	Ariane 5	Inmarsat-5 F5	
??	Ariane 5 ECA	Eutelsat Quantum	
July??	Soyuz 2-1A	Soyuz MS 13 (S60/61)	
CDR: Скворцов (Alexander Skvortsov), Luca Parmitano (ESA), Andrew Morgan (NASA)			
July??	CZ-3C	Beidou 3 I3Q	
July??	H-2B (F9)	HTV8	80
Aug28.	Soyuz-2 1A	Soyuz GVK	
Aug??	Soyuz ST B/Fregat-MT	EarthCare	
Aug??	Proton-M	MLM	
??	Delta IV	GPS IIIA-3	
Sep??	Atlas 5 552	Dream Chaser Cargo System SNC-1	
Late - inaugural flight - Vega-C - Kourou ZLV			
Oct??	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??	Falcon 9 FT	Dragon SpX-19	
??	Ariane 5	JCSat 17	
Nov14.	Soyuz-2 1B	Progress M-UM	



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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)	
??	Vega - C	??	60
Dec??	CZ-3B/YZ-1	Beidou 3 MEO M21, Beidou 3 MEO M22	
Dec??	Proton-M/Briz-M	Ekspress 80, Ekspress 103	
??	Falcon H	Arabsat 6A	
??	Atlas 5 551	AFSPC-7 (X-37B OTV 6)	
??	Falcon 9	Astrium active SARah satellite	
??	Atlas 5 551	Asteroid Retrieval Spacecraft (ARS)	
??	??	EX-3	
??	Falcon 9	GiSat-1	
??	Ariane 5 ECA	Eutelsat BB4A (African Broadband Satellite)	
??	Ariane 5 ECA	Intelsat 39	
??	Ariane 5 ECA	Star One D2	
??	Soyuz ST B/Fregat-MT	CSO 1 (Composante Spatiale Optique-1)	
??	Vega	OpSis	
??	Vega	Falcon Eye 1	
??	Vega	Falcon Eye 2	
??	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	40
??	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	
??	Soyuz-2 1B /Fregat-M	Glonass K1 / 16	
??	Proton-M/ DM-03	Glonass K	
??	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	Ямал-GK-1	
??	Proton-M/Briz-M	Anik G2V	



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??	Proton-M	PTK NP	
??	Soyuz-2-1B	Obzor R -1	
??	Soyuz-2 1A	Energiya-100	
??	Soyuz-2-1B	Pion	
??	Soyuz-2-1B / Fregat -M	Glonass K2	
??	Soyuz-2-1B / Fregat	Glonass K2	20
??	Proton-M / DM-03	Glonass-M	
??	Soyuz-2-1B	Arktika	
??	Soyuz-2 1B / Fregat -M	Resurs N°4	
??	Soyuz-2-1B / Fregat -M	Kondor-FKA n.º 1	
??	Soyuz-2 1B / Fregat -M	Tundra 3	
??	Soyuz-2 1B / Fregat -M	Tundra 4	
??	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	ScatSat, NovaSAR	
119			
2020.			
Jan??	Falcon 9	Dragon SpX-20	
Feb05.	Atlas 5	Solar Orbiter (SoI0) (ESA)	
Feb??	H-2B (F10)	HTV9	
Feb??	Soyuz-2	Progress MS 13	
??	Vega	SSMS – 2 (Small Spacecraft Mission Service)	
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))	



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??	CZ-5	Tian He Space Station Core Module
??	Ariane 5	Galaxy 30 / MEV-2
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)
??	CZ7	TZ 2 Tianzhou 2 (Logistic Cargo Vehicle)
??	CZ-2F/G	SZ-12 Shenzhou-12
??	Vega	CCERES (x3)
May??	Soyuz 2-1A	Soyuz MS 15 (S62/63)
CDR: Рыжиков (Sergei Ryshikov), Jessica Meir (NASA), Soichi Noguchi (JAXA)		
May??	Atlas 5 402	USCV-4 (US Commercial Vehicles)
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 5	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.
July??	CZ-3C	Beidou 3 G2Q
July??	CZ-5	Mars probe (orbiter + lander + rover)
??	Vega-C Pleiades Neo 1, Pleiades Neo 2	
??	Ariane 5	ViaSat 3 EMEA
Aug??	Falcon 9 FT	Dragon SpX-21
Aug??	Soyuz-2	Progress MS 14
Sep??	CZ	CBERS-6
Sep??	Soyuz-2-1B/Fregat-M	Glomass 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)



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Nov?? [Soyuz-2](#) [Progress MS 15](#)
 Nov?? Soyuz 2-1A [Soyuz MS 16 \(S63/64\)](#)

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	HЭM-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
??	Proton-M/Briz-M	Ekspress AMU 3 / Ekspress AMU 7
??	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
??	Ariane 5	Arsat 3
??	Ariane 5	ViaSat-3 Asia
??	Ariane 5 ECA	EDRS-D
??	??	Seosat-Ingenio-2



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- ?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x32)
 ?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x32)
 ?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x32)
- ?? [Vega](#) C Cosmo-SkyMed Secon Gen 2 [CSG-2](#)
- ?? [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
- ?? [PSLV](#) XL [Aditya'](#)
- ?? 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.

- Feb?? [Soyuz-2](#) [Progress MS](#) 16
- Mar30.** [Soyuz-2-1A](#) [Soyuz MS 17](#)
 Cdr: xx, Akihiko **Hoshide**, xx
- ?? [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 Vechile)
 ?? [Soyuz-2](#) [Progress MS](#) 17
 ?? CZ-2F/G SZ-14 Shenzhou-14
 ?? Ariane 62 Galileo-FOC FM25, Galileo-FOC FM26
- July?? Vulcan/Minotaur 6/[Falcon 9](#) v1.1 JPSS-2
 July?? [Vega C](#) 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)



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Nov??	Atlas 5 402 / Falcon 9	USCV-7 (US Commercial Vehicles)
??	Ariane 5	MTG-I1
??	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 18	
??	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
??	Ariane 5	Heinrich Hertz
??	Ariane 5	SES-17
??	Ariane 5	Comsat NG 1 (Syracuse 4A)
??	Soyuz ST B/ Fregat-MT	CSO 2 (Composante Spatiale Optique-2)
??	Vega C	Space Rider 2
??	Vega C	CNES/UAE Mars mission
??	Vega-C	Pleiades Neo 3, Pleiades Neo 4
??	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 19

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 19](#)

??	CZ7	TZ 4 Tianzhou 4 (Logistic Cargo Vechile)
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??	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)
May20.	Ariane 5ECA		JUICE (JU piter ICy moon Explorer)
June04.	SLS Block I		Orion: Exploration Mission 2 (Crew to Cislunar) Mission)
June??	Ariane 5		MTG-I2
??	Sunkar ??		
??	Soyuz-2		Progress MS 20
Aug??	H2B		Phobos sample return
Sep30.	Soyuz-2-1A		Soyuz MS 20
Nov??	Atlas 5	402 / Falcon 9	USCV-9 (US Commercial Vehicles)
Dec??	Soyuz ST	B/ Fregat -MT	MetOp-SG B1
Dec??	Vega	C	FLEX (Fluorescence Explorer satellite)
??	Sunkar	Federatsia (unmaned)	
??	Soyuz-2		Progress MS 21
??	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 N°2
??	Soyuz-2-		Razdan 2
??	Proton-M/Briz-M		Elektro L - 5
??	Ariane 5		Moon's south pole samples return mission
??	Ariane 5		Comsat NG 2 (Syracuse 4B)
??	Vega	C	Space Rider 3
??	Vega	C	CryoSat FO
??	CZ		HY-3C Haiyang-3C
2023.			
??	Soyuz-2		Progress MS 22



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Mar30.	<u>Soyuz-2-1A</u>	<u>Soyuz MS 21</u>
??	CZ7	TZ 5 Tianzhou 5 (Logistic Cargo Vehicle)
??	CZ-2F/G	SZ-16 Shenzhou-16
May??	<u>Atlas 5</u> 402 / <u>Falcon 9</u>	USCV-10 (US Commercial Vehicles)
??	<u>Soyuz-2</u>	<u>Progress MS 23</u>
??	<u>Ariane 5</u>	MTG-S2/Sentinel-4A
Sep30.	<u>Soyuz-2-1A</u>	<u>Soyuz MS 22</u>
??	<u>Soyuz-2</u>	<u>Progress MS 24</u>
Nov??	<u>Atlas 5</u> 402 / <u>Falcon 9</u>	USCV-11 (US Commercial Vehicles)
??	SLS Block IA II	Orion: Exploration Mission 3 (Crew to Cislunar)
??	Sunkar Federatsia (unmanned flight to ISS)	
??	A Russian <u>Proton/Briz-M</u> (or Angara) rocket to launch the <u>Laplas-P</u> mission to orbit the moon of Jupiter Ganymede.	
??	<u>Proton-M/Briz-M</u>	Ekspress – AT3, AT4
??	<u>Soyuz-2-1B/Fregat-M</u>	Resurs PM - 3
??	<u>Angara 1.2</u>	<u>Gonets</u> x 3
??	<u>Soyuz-2-1B</u>	Obzor R - 2
??	<u>Soyuz-2-1B</u>	Obzor O - 1
??	<u>Soyuz-2-1B/Fregat-M</u>	Ellips - 1
??	<u>Angara A5P/DM03</u>	Dopler 1, 2
??	<u>Soyuz-2-1B/Fregat-M</u>	Meteor M No2-5
??	<u>Soyuz-2-1B/Fregat-M</u>	Arktika M 3
??	<u>Vega C</u>	Space Rider 4
??	<u>Soyuz ST B/Fregat-MT</u>	Sentinel-1C
??	CZ	SPORT (Solar Polar Orbit Radio Telescope)
??	CZ	FY-4D Fengyun-4D
??	<u>GSLV</u> MK III	Mission to Venus
??	<u>Angara A5P/DM03</u>	Lutch 5 – 2
??	<u>Soyuz-2-1b</u>	Bion-M No. 2
??	<u>Angara A5P/DM03</u>	Lutch 5 – 3
??	??	Ямал GK 2

2024

Mar30.	<u>Soyuz-2-1A</u>	<u>Soyuz MS 23</u>
??	CZ7	TZ 6 Tianzhou 6 (Logistic Cargo Vehicle)
May??	<u>Atlas 5</u> 402 / <u>Falcon 9</u>	USCV-12 (US Commercial Vehicles)
Sep30.	<u>Soyuz-2-1A</u>	<u>Soyuz MS 24</u>



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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	25
??	Soyuz-2	Progress MS	26
??	Soyuz-2	Progress MS	27
??	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
??	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
??	CZ	Jupiter Orbiter
??	CZ	Mars Sample Return
??	CZ	Chang'e-8 (Moon north pole landing)



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?? [Angara A5/DM03](#) Bumerang (FobosGrunt 2)

2069.

?? ?? [Interstellar mission](#)