



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (26.3.2018.)

2018.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in red. Last change 26.Mar.2018.

Mar29. 1126UTC [GSLV Mk II F8](#) [GSAT 6A](#)
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

Mar29. 1419UTC [Falcon 9](#) [Iridium Next Flight 5 \(x10\)](#)
Launch site: [Vandenberg](#), USA

Mar29. Soyuz-2-1V [Kosmos EMKA](#)
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

Mar29. CZ-3B/YZ-1 [Beidou 3 MEO M5](#), [Beidou 3 MEO M6](#)
Launch site: [Xichang](#), China

Mar?? [CZ-2C](#) [Pakistani Remote Sensing Satellite \(PRSS\) 1](#)
Launch site: [Taiyuan](#), China

Mar?? [CZ-11](#) Zhuhai-1

Apr02. 2030UTC [Falcon 9](#) [Dragon SpX-14](#)
Launch site: [Cape Canaveral](#), USA

Apr05. 2134UTC [Ariane 5 ECA \(VA242\)](#) [Hylas 4](#), [DSN 1 \(Superbird-8\)](#)
Launch site: [Kourou](#), French Guiana

Apr12. 2200UTC [Atlas 5 551 \(AV-079\)](#) [AFSPC-11](#)
Launch site: [Cape Canaveral](#), USA

Apr12. [PSLV XL \(C41\)](#) [IRNSS I](#)
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

Apr16. 2232UTC [Falcon 9](#) [TESS](#)
Launch site: [Cape Canaveral](#), USA

Apr19. [Proton-M/Briz-M](#) [Blagovest 12](#)
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

Apr21. [CZ-3B/G2](#) [APStar-6C](#)
Launch site: [Xichang](#), China 140

Apr25. [Rokot / Briz KM](#) [Sentinel 3B](#)
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

Apr28. [Falcon 9](#) [Iridium Next Flight 6 \(x5\)](#), [GRACE FO_1](#), [FO_2](#)
Launch site: [Vandenberg](#), USA

Apr?? [Falcon 9](#) [Bangabandhu-1](#)
Launch site: [Cape Canaveral](#), USA

Apr?? [CZ-4B](#) GF-5 Gaofen-5



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?? [Epsilon](#) ??

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

??	KZ-1A	Jilin 1-09
??	KZ-1A	Jilin 1-10
??	KZ-1A	Jilin 1-11
??	KZ-1A	Jilin 1-12

May05. 1105UTC [Atlas 5](#) 401 AV-078 InSight

Launch site: [Vandenberg](#), USA

May09. [Antares](#) 230 [Cygnum](#) Orb-9E

May18. [Ariane 5](#) ECA (VA243) GSAT-11, Azerspace 2 (Intelsat 38)

Launch site: [Kourou](#), French Guiana

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

May?? [PSLV](#) XL (C42) ??

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

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

?? [CZ-3B/YZ-1](#) [Beidou 3](#) MEO M7, [Beidou 3](#) MEO M8

?? [CZ-3B/E](#) SupremeSAT-II

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

CDR: Сергей Валерьевич Прокопьев (Sergei Valerevich Prokopyev), Serena **Auñón-Chancellor**, Alexander Gerst

June09. [Falcon 9](#) [Dragon](#) SpX-15

June12. [CZ-2D](#) GF-6 Gaofen-6, LJ-1 Luojia-1 120

June13. [Falcon Heavy](#) STP-02

June13. 1428UTC [Pegasus-XL](#) ICON ([Helio EX-1](#))

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

June?? [Rokot / Briz KMGeo IK 2](#) 13L

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

June?? [CZ-3B/G2](#) L2 Chang'e 4 communications relay satellite

June?? CZ?? Tianzhi-1

June?? [Falcon 9](#) [Iridium Next](#) Flight 7 (x10)

June?? [GSLV](#) MK III D2 GSAT-29

?? [Vega](#) TARANIS

?? [Vega](#) Prisma

?? KZ-11 Xiaoxiang-4

?? [Falcon 9](#) Telstar 19

?? [Falcon 9](#) Telstar 18

?? [Angara](#) A5/ [Briz-M](#) Kosmos

?? [Falcon 9](#) Telkom 4

July05. [Falcon 9](#) Spaceflight SSO-A



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July10.	Soyuz-2 1A	Progress MS 9	
July31.	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-2-1B/Fregat-M	Glonass-M 60	
July??	Soyuz-2 1A	Bars-M 3	100
??	Falcon 9	PSN VI	
??	CZ-3B/YZ-1	Beidou 3 MEO M9, Beidou 3 MEO M10	
??	Ariane 5 ECA	GEO-KOMPSAT-2A	
??	Falcon 9	Iridium Next Flight 8 (x10)	
??	H-2A	IGS Radar-6	
Aug16.	H-2B (F7)	HTV7	
Aug19.	Soyuz ST B/Fregat-MT	OneWeb smalsat (x32)	
Aug27.	Atlas 5 N22 (AV80)	CST-100 Starliner (unmanned test)	
Aug27.	Falcon 9 (SPx-DM1)	Dragon v2 unmanned test	
Aug??	CZ-3C	Beidou 2 I7	
Aug??	CZ-2C	CFOSAT (China-France Oceanography SATellite)	
Aug??	CZ-11	OKW-2	
Aug??	Falcon 9	SAOCAM-1A, ITASAT-1	
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			
Sep26.	Delta 4-H	NROL-71	
Sep??	Proton-M/ DM-03	Glonass K	
Sep??	Falcon 9	GPS III-1	
??	Ariane 5 ECA	Intelsat 7C	
??	Falcon 9	Radarsat C-1, -2, C-3	80
??	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??	Rokot / Briz KM	Gonets x 3 (No 24,25,26), Blits-M	
Launch site:	Плесецк (Plesetsk) Cosmodrome, Russia		



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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 61	
Oct??	Soyuz-2-1B / Fregat -M		Meteor M-2-2, Ionosfera 3, Ionosfera 4	Oct?? Antares
230		Cygnus	Orb-10E	
??	Ariane 5		Horizon 3e	
??	Falcon H		Arabsat 6A	
Nov15.	Soyuz-2 1A	Soyuz MS 11 (S58/59)		
CDR: Олэг Дмíтриевич Кононёнко (Oleg Dmitrievich Kononenko), Anne McClain (NASA), David Saint-Jaques				
Nov16.	Falcon 9 FT	Dragon SpX-16		
Nov??	Atlas 5	422 (AV082)	CST-100 Starliner	
CDR: Douglas Hurley, Robert Behnken				
Nov??	Soyuz-2	1A / Fregat	Kanopus V 5, Kanopus V 6	60
Nov??	Delta IV	-M (5,4)	WGS 10	
Nov??	CZ-5	Y3	SJ-18 02 (DFH-5 platform)	
??	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	
Dec20.	Proton-M		MLM	
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 -M	MetOp-C	
Dec??	Proton-M / Briz-M		Ямал-601	
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	
??	Zenit 3 SL / Fregat	-SB	Lybid'	
Launch site: Байконур (Baikonur) Cosmodrome, Kazakhstan				
??	Falcon 9		Es'hail 2	
??	Soyuz-2	1B / Fregat -M	Tundra 3	
??	Soyuz-2	1B / Fregat -M	Tundra 4	40
??	Vega	(VV12)	Aeolus / ADM	
??	Ariane 5		Heinrich Hertz	
??		Minotaur-4	FORMOSAT-7 (6 sat)	



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??	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		
??	CZ	Deep Space Solar Observatory		
??	CZ-2	CAS-2A1, CAS-2A2		
??	CZ-3B/E	CongoSat 1		
??	??	Small Military Meteorological Satellite (x6)		
??	CZ	FY-3E Fengyun-3E		20
??	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-3A	FY-2H Fengyun-2H	
??		CZ-2D	SaudiSAT 5B	
??		CZ	YG-32 Yaogan Weixing 32	
??	GSLV MK II	F12	GSAT-7A	
??	PSLV		EnMap	
??		Simorgh	Dosti	
Launch site: Semnan , Iran				
??	Safir 1 B	Tadbir		
??	Safir 3A	Pars sepher		



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?? [Unha-3](#) Kwangmyŏngsŏng-5

?? Tronador II/VEX5 TBD (suborbital)
Launch site: Puerto Belgrano, Argentina

5 + 24
26 + 152

2019.

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

?? [Falcon 9](#) SAOCAM-1B, SAOCAM-1C 120

Feb01. [Falcon 9](#) [Dragon SpX-17](#)

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

Feb?? [CZ-3C](#) Beidou 3 I1Q
Feb?? [Atlas 5](#) [Solar Orbiter](#) (SolO) (ESA)
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**), Андре́й Никола́евич **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](#)

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

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



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June??	Soyuz 2-1A	Soyuz MS 13 (S60/61)	
	CDR: Скворцов (Alexander Skvortsov), Luca Parmitano (ESA), Andrew Morgan (NASA)		
June??	Atlas 5 551	STP-03	
June??	Ariane 5 ES	JWST (James Webb Space Telescope)	
June??	CZ-5 B	Test flight	
??	PSLV	RISAT 1A	
??	CZ-3B/G2	TECSTAR 1	
??	Vega	Cosmo-SkyMed Secon Gen 1	CSG-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	
Aug??	Soyuz-2	Progress MS 13	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	



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??	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	
??	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	
??	Proton-M/ DM-03	Glonass-M/ K21,K22,K23	
??	Soyuz-2 1B / Fregat -M	Glonass K1 / 16	40
??	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	Glonass K2	
??	Soyuz-2 -1B/ Fregat	Glonass 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)	



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?? 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'](#)

?? [PSLV](#) ScatSat, NovaSAR

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2020.

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

Feb?? H-2B (F10) HTV9

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

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)

?? 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

?? [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



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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

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
 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
 ?? ?? HypIRI
 ?? 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



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??	Soyuz-2-1B/Fregat-M	Glonass M 55
??	Soyuz-2-1B/Fregat-M	Glonass-M/ 53
??	Soyuz-2-1B/Fregat	Glonass M/ 58
??	Soyuz-2-1B/Fregat	Glonass M / 59
??	Soyuz-2-1B/Fregat-M	Resurs PM - 1
??	Soyuz-2-1B/Fregat-M	Meteor M No2-3
??	Angara 1.2	Kompsat-6
??	Soyuz-2-1A/Fregat-M	Gonets x 6
??	Proton-M/Briz-M	AOneSat-1
??	Proton-M/Briz-M	Terrestar-2
??	Proton-M/Briz-M	SkyTerra 2
??	Soyuz-2-1A/Fregat	Resonance 1A, Resonance 1B
RESONANCE is a project to study Earth's magnetosphere consisting of four similar satellites.		
??	Soyuz-2-1B	Lotos S1
??	Soyuz-2-1B	Persona
??	Soyuz-2-1A	Kobalt M
??	Soyuz-2-1A	Foton M
??	??	Zond
??	??	MKA PN6 (Monika)
??	??	Картограф-0Э №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
??	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



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??	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)	
??	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
??	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



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??	CZ	Venus Global Sensing Probe
??	CZ	FY-3G Fengyun-3G (Batch 2)
??	??	Sansha-1 (1)
??	??	Sansha-1 (2)

2022.

Jan?? ?? Solar Sentinels

?? [Soyuz-2](#) [Progress MS 20](#)

Mar17. CZ3 Asteroid rendezvous and touchdown Rendezvous with the asteroid Apophis on 18 March 2023, entering its orbit. After 220 days, the probe will depart and then proceed toward asteroid 2002EX11. Flyby is expected on 6 October 2025 at a 9.8 km/s speed. Third and final leg of its journey, the probe will make a rendezvous with asteroid 1996FG3 on 1 January 2027 and enter its orbit. After 180 days, the probe will eventually make landing on its surface on 30 June 2027.

Mar30. [Soyuz-2-1A](#) [Soyuz MS 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 Cis lunar Mission)**

June??	Ariane 5ECA	JUICE (Jupiter ICy moon Explorer)
June??	Ariane 5	MTG-12

??	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



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??	Angara 1.2	Gonets x 3
??	Proton-M/Briz-M	Eutelsat
??	Proton-M/Briz-M	Intelsat
??	Soyuz-2-1B/Fregat-M	Smotr R №2
??	Soyuz-2-	Razdan 2
??	Proton-M/Briz-M	Elektro L - 5
??	Ariane 5	Moon's south pole samples return mission
??	Vega	Jason-CS B
??	Ariane 5	ATHENA
??	CZ	HY-3C Haiyang-3C

2023.

?? [Soyuz-2](#) [Progress MS 23](#)

Mar30. [Soyuz-2-1A](#) [Soyuz MS 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](#) Ekspres – 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



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??	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)

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



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??	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)
??	Angara A5/DM03	Bumerang (FobosGrunt 2)

2069.

??	??	Interstellar mission
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