



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (12.02.2018.)

2018.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in **red**. Last change **12.Feb.2018**.

Feb12. 0510UTC [CZ-3B/YZ-1](#) [Beidou 3](#) MEO M3, [Beidou 3](#) MEO M4

Launch site: [Xichang](#), China

??Feb13. [Soyuz-2](#) 1A [Progress MS](#) 8

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

Feb17. 1422UTC [Falcon 9](#) FT [PAZ](#)

Launch site: [Vandenberg](#), USA

??Feb20. **??**[CZ-4B](#) **Taurus-1**

Launch site: [Taiyuan](#), China

Feb22. **0530UTC** [Falcon 9](#) [Hispasat 30W-6 \(1F\)](#)

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

Feb25. 0400UTC [H-2A](#) [IGS Optical-6](#)

Launch site: [Tanegashima](#), Japan

Feb28. [Soyuz-2-1V](#) **Kosmos** [EMKA](#)

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

Mar01. 2202UTC [Atlas 5](#) **(541)** **GOES-S**

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

Mar06. 1638UTC [Soyuz ST B/Fregat-MT \(VS18\)](#) **O3b**

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

Mar15. [CZ-3B/G2](#) **APStar-6C**

Launch site: [Xichang](#), China

Mar15. [GSLV Mk II F8](#) **GSAT 6A**

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

Mar16. 2144UTC [Ariane5](#) ECA (VA242) **Hylas 4**, **DSN 1** (Superbird-8)

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

Mar18. [Falcon 9](#) FT [Iridium Next](#) Flight 5 (x10)

Launch site: [Vandenberg](#), USA



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??Mar20. [Falcon 9](#) [TESS](#)
Launch site: [Cape Canaveral](#), USA 160

Mar21. 1744UTC [Soyuz-2 1A](#) [Soyuz MS 8 \(S55/56\)](#)
CDR: Олег Германович **Артемьев (Oleg G. Artemyev)**, Andrew J. **Feustel**, Ricky R. **Arnold**

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

Mar22. [PSLV XL \(C41\)](#) [IRNSS I](#)
Launch site: [Satish Dhawan Space Centre, Sriharikota, India](#)

Mar26. [Falcon 9 FT](#) [Bangabandhu-1](#)
Launch site: [Cape Canaveral](#), USA

Mar?? [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?? LS-1 LandSpace-1 (China)
Mar?? [Soyuz-2 1B /Fregat-M](#) Glonass K1 / 16

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

?? KZ-1A ??
?? KZ-1A ??
?? KZ-1A ??
?? KZ-1A ??
?? [CZ-2D](#) LKW-4 (LudiKancha Weixing 4)

Apr03. [Falcon 9 FT](#) [Dragon SpX-14](#)

Apr04. [Proton-M/Briz-M](#) [Blagovest 12](#)
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

Apr12. [Atlas 5 551 \(AV81\)](#) [AFSPC-11](#)

Apr14. [Falcon 9](#) [Iridium Next](#) Flight 6 (x5), [GRACE FO_1, FO_2](#)
Launch site: [Vandenberg](#), USA

Apr19. [Ariane5](#) ECA (VA243) [GSAT-11, Azerspace 2 \(Intelsat 38\)](#)
Launch site: [Kourou](#), French Guiana

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



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Apr??	H-2A	GOSAT-2	140
Apr??	CZ-4B	GF-5 Gaofen-5	
Apr??	Soyuz-2-1B/Fregat	Glonass K2	
Apr??	Falcon 9 FT	SES-12	
Apr??	Rokot / Briz KM	Sentinel 3B	

??	Falcon 9	Telstar 18
??	Falcon 9	Telstar 19

May01. [Antares](#) 230 [Cygnum](#) Orb-9E

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

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

??	Falcon 9 FT	Iridium Next Flight 7 (x10)
??	CZ-3B/YZ-1	Beidou 3 MEO M7, Beidou 3 MEO M8
??	CZ-3B/E	SupremeSAT-II
??	Falcon 9	Spaceflight SSO-A
??	Falcon 9 FT	Telkom 4
??	Proton-M/ DM 3	Kosmos (Repei??)

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

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

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

June30. [Falcon 9](#) SAOCAM-1A, ITASAT-1

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

June?? [Rokot / Briz KM](#) [Geo IK 2](#)
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia 120

June??	CZ-3B/G2	L2 Chang'e 4 communications relay satellite
June??	??	Tianzhi-1
June??	CZ-7	New generation manned spacecraft
June??	Soyuz-2 1B / Fregat -M	Glonass K1
June??	GSLV MK III D2	GSAT-29

?? Pegasus-XL ICON ([Helio EX-1](#))
Launch site: [Kwajalein Atoll](#), USA

?? [Vega](#) TARANIS



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??	Vega	Prisma
??	KZ-11	Xiaoxiang-4
??	Falcon 9 FT	Es'hail 2
??	Falcon Heavy	STP-02
July10.	Soyuz-2 1A	Progress MS 9
July31.	Delta 4-H	Parker Solar Probe
July??	PSLV	Cartosat-3
July??	Ariane 5 ES	Galileo-FOC FM19 (Tara), Galileo-FOC FM20 (Samuel), Galileo-FOC FM21 (Anna), Galileo-FOC FM22 (Ellen)
July??	Soyuz-2-1B/Fregat -M	Glonass-M
July??	Soyuz-2 1A	Bars-M 3
??	Falcon H	Arabsat 6A
??	Falcon 9	PSN VI
??	CZ-3B/YZ-1	Beidou 3 MEO M9, Beidou 3 MEO M10 100
??	Ariane 5 ECA	GEO-KOMPSAT-2A
??	Falcon 9	Iridium Next Flight 8 (x10)
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??	Soyuz-2 1B / Fregat -M	Glonass M
Aug??	Soyuz-2 1A	Energiya-100
Aug??	Proton-M/ DM-03	Glonass-M
Sep12.	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??	CZ-3B/YZ-1	Beidou 3 MEO M15, Beidou 3 MEO M16
Sep??	Proton-M/ DM-03	Glonass K



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Sep??	Soyuz-2-1B	Arktika	
Sep??	Vega (VV12)	Aeolus / ADM	
Sep??	Falcon 9	GPS III-1	80
??	Ariane 5 ECA	EDRS-C (Hylas 3)	
??	Ariane 5 ECA	Intelsat 7C	
??	Falcon 9	Radarsat C-1, -2, C-3	
??	Falcon 9	OHB SARah satellite (x2)	
??	CZ-5 Y3	SJ-18 02	
??	Ariane 5 ECA	Hellas-Sat-4	
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??	CZ-3C	Beidou 3 G1Q	
Oct??	Soyuz-2 1B / Fregat-M	Glonass M	
Oct??	Soyuz-2-1B/Fregat-M	Meteor M-2-2, Ionosfera 3, Ionosfera 4	
??	Ariane 5 ECA	Intelsat 39	
??	Ariane 5	Horizon 3e	
Nov01.	Delta IV-M (5,4)	WGS 10	
Nov08.	Antares 230	Cygnus Orb-10E	
Nov15.	Soyuz-2 1A Soyuz MS 11 (S58/59)		
CDR: Олэг Дмíтриевич Кононénко (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			60
Nov??	Soyuz-2 1B / Fregat-M	Resurs №4	
Nov??	Soyuz-2-1B/Fregat-M	Kondor-FKA n.º 1	
Nov??	Proton-M/Briz-M	Ekspress AMU 3 / Ekspress AMU 7	
Nov??	Soyuz-2 1A / Fregat	Kanopus V 5, Kanopus V 6	
??	Epsilon (4) Innovative Technology Demonstration Satellite – 1, OrigamiSat-1		
Launch site: Tanegashima , Japan			



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??	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??	CZ-3B/YZ-1	Beidou 3 MEO M17, Beidou 3 MEO M18	
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	EutelSat 5 West B / MEV	
Dec??	Proton-M/Briz-M	Ямал-601	
Dec??	Soyuz ST B/Fregat-MT	OneWeb smalsat (x10)	
Dec??	Soyuz-2-1B/ Fregat-M	Glonass K	
Dec??	Soyuz-2-1B/ Fregat-M	Glonass K2	40
??	Ariane 5	Heinrich Hertz	
??	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-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	CBERS-SAR 1	
??	CZ	Deep Space Solar Observatory	
??	CZ	CBERS-4B	
??	CZ-2	CAS-2A1, CAS-2A2	
??	CZ-3B/E	CongoSat 1	
??	??	Small Military Meteorological Satellite (x6)	
??	CZ	FY-3E Fengyun-3E	
??	CZ	FY-4B Fengyun-4B	
??	CZ-4B	Haiyang-1C HY-1C	



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Launch site: [Taiyuan](#), China

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?? 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

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

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

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

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

?? CZ YG-32 [Yaogan Weixing 32](#)

?? [GSLV](#) MK II F12 GSAT-7A

?? [GSLV](#) MK II F10 GISAT

?? [PSLV](#) EnMap

?? [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

3 + 26

17 + 173

2019.

?? [Falcon 9](#) GiSat-1

?? [Falcon 9](#) (SPx-DM2) Dragon v2

CDR: Eric Boe, Sunita Williams



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Feb01.	Falcon 9	Dragon SpX-17	
Feb06.	Soyuz-2	Progress MS 11	100
Feb??	CZ-3C	Beidou 3 I1Q	
Feb??	Atlas 5	Solar Orbiter (SoIo) (ESA)	
Feb??	Atlas 5 551 (AV-086)	AEHF-6	
Feb??	Delta IV	GPS IIIA-2	
??	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 Никола́евич Ба́бкин (Andrei Nikolaevich Babkin), Shannon Walker			
Mar??	Ariane 5 ECA	GEO-KOMPSAT-2B , Cheollian 2B	
??	Soyuz ST B/Fregat -MT	OneWeb smalsat (x32)	
??	Soyuz-2-1B/Fregat	Glonass K2 / 13	
??	Proton-M rocket to launch <i>Spektr-Rentgen-Gamma X-Ray</i> 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	
??	CZ7	TZ 2 Tianzhou 2 (Logistic Cargo Vechile)	
May??	Atlas 5 402	CST 100 Starliner (USCV-2) with 2 astronauts	
May??	Soyuz-2	Progress MS 12	
May??	Falcon 9 FT	Dragon SpX-18	80
June??	Atlas 5 551	STP-03	
June??	Ariane 5 ES	JWST (James Webb Space Telescope)	
June??	Soyuz 2-1A	Soyuz MS 13 (S60/61)	
CDR: Скворцов, Пармитано, Andrew Morgan ,			
??	PSLV	RISAT 1A	
??	CZ-3B/G2	TECSTAR 1	



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??	Vega	Cosmo-SkyMed Secon Gen 1	CSG-1
??	SSLV	??	
July??	CZ-3C	Beidou 3 I3Q	
July??	H-2B (F9)	HTV8	
??	Ariane 5	Inmarsat-5 F5	
??	Falcon 9	GPS IIIA-3	
Aug??	Soyuz ST B / Fregat -MT	EarthCare	
Sep??	Soyuz 2-1A	Soyuz MS 14 (S61/62)	
	CDR: Борисенко, Чуб, 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)	60
Nov??	Falcon 9	USCV-3 (US Commercial Vehicles)	
	CDR: ??(NASA), ??(NASA), ??(RF)		
Nov??	Soyuz-2	Progress MS 13	
??	Soyuz-2 -1B/ Fregat -M	Glomass 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	
??	Falcon H	Circumlunar Dragon V2	
??	Atlas 5 551	AFSPC-7 (X-37B OTV 6)	
??	Falcon 9	Astrium active SARah satellite	
??	Atlas 5 551	Asteroid Retrieval Spacecraft (ARS)	
??	??	EX-3	
??	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	
??	Soyuz ST / Vega	MicroCarb	
??	Soyuz ST B/ Fregat -MT	Sentinel-1C	40
??	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	
??	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 A5/ Briz-M	Kosmos	
??	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	EgyptSat 3	20
??	Proton-M/Briz-M	Anik G2V	
??	Proton-M	PTK NP	
??	Soyuz-2 -1B/ Fregat M	Meridian 18L	
??	Soyuz-2 -1B	Obzor R -1	
??	Soyuz-2 -1B	Pion	
??	Soyuz ST	CSO 1	
??	Soyuz ST B/ Fregat -MT	OneWeb smalsat (x32)	
??	Zenit 3 SL / Fregat -SB	Lybid'	



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

??	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
??	??	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
Mar30.	Soyuz 2-1A	Soyuz MS 15 (S62/63)
	CDR: Рыжиков, Meir (NASA), Soichi Noguchi	
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)
Apr??	Soyuz-2	Progress MS 14
??	CZ-5B	Wentian Lab module Space station module
??	CZ-2F/G	SZ-12 Shenzhou-12
May??	Atlas 5 402	USCV-4 (US Commercial Vehicles)



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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
June??	Ariane	MTG-S1/Sentinel-4A
June??	CZ-3C	Beidou 3 G3Q
June??	Vega_C	Space Rider flight 1
July16	Ariane 62	Galileo-FOC FM23, Galileo-FOC FM24
July24.	Proton-M/Briz-M	ExoMars (CM+DM) An ESA exobiology rover equipped with a deep drill developed by Astrium Satellites in the United Kingdom will launch in 2018. A Russian-built entry, descent and landing package will shepherd the rover to the red planet's surface.
July??	Atlas 5 (541)	Mars 2020 rover NASA's exit from a joint sample-collection campaign with Europe aims to send a \$700 million mission to the red planet in 2018 or 2020. The replanned Mars mission, referred to in budget documents as Mars Next Generation, will carry a price tag that falls somewhere between that of the 2013 Maven Scout mission and the 2005 Mars Reconnaissance Orbiter, which cost \$485 million, and more than \$720 million, respectively.
July??	CZ-3C	Beidou 3 G2Q
??	CZ 5	Mars probe (orbiter + lander + rover)
??	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).



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??	??	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	HƏM-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.		
??	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



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??	CZ5	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
??	Soyuz-2	Progress MS 17
Mar30.	Soyuz-2-1A	Soyuz MS 17
Apr??	Soyuz ST B/ Fregat M	MarcoPolo-R
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/EPSS-SG-a/Sentinel-5A



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



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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-5B 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 5ECA](#) JUICE (JUperiter 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](#) 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 №2
 ?? [Soyuz-2-](#) Razdan 2
 ?? [Proton-M/Briz-M](#) Elektro L - 5



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??	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
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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
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Sep30. [Soyuz-2-1A](#) [Soyuz MS 22](#)

??	Soyuz-2	Progress MS 25
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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)



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??	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)
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	



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?? 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

?? [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 (*Venera D*) would be launched

?? CZ Jupiter Orbiter

?? CZ Mars Sample Return

?? CZ Chang'e-8 (Moon north pole landing)

?? [Angara](#) A5P/DM03 Bumerang (FobosGrunt 2)

2069.

?? ?? [Interstellar mission](#)