



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (25.3.2019.)

2019.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in red. Last change 25.Mar.2019.

Mar27. OS-M1 Lingque 1B

Launch site: [Jiuquan](#), China

Mar30. 1630UTC [CZ-3B/G2](#) Tianlian-2 TL-2
Xslc

Mar?? 2230UTC [Electron](#)/Curie DARPA R3D2
Launch site: [Kaitorete Spit](#), New Zeland

Apr01. 0357UTC [PSLV](#) C45 EMIsat
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India 120

Apr04. 1101UTC [Soyuz-2](#) [Progress MS 11](#)

Apr04. 1631UTC [Soyuz ST B/Fregat-MT](#) [O3b \(FM17-20\)](#)
Launch site: [Kourou](#), French Guiana

Apr05. CZ?? CAS-7A, CAS-7B
Launch site: [Jiuquan](#), China

Apr07. 2236UTC [Falcon H](#) Arabsat 6A
Launch site: [Cape Canaveral](#), USA

Apr17. 2045UTC [Antares 230](#) [Cygnum OA-11](#)
Launch site: [Wallops Island](#), USA

Apr25. 1020UTC [Falcon 9](#) [Dragon SpX-17](#)
Launch site: [Cape Canaveral](#), USA

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

Apr?? [KZ-1A](#) ??
Launch site: [Jiuquan](#), China

Apr?? ?? GOES-T
Apr?? [CZ-3A](#) [Beidou 3](#) I2Q
Apr?? [CZ-2D](#) SJ-19 Shijian-19
Apr?? [PSLV](#) C46 CARTOSAT-3

?? [Soyuz-2](#) 1A [Bars-M](#) 3
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

?? [Electron](#) Outernet 2,3
?? [Soyuz-2-1B/Fregat](#) M Meridian 18L
?? [CZ-3A](#) [Beidou 3](#) I1Q
?? [CZ-3C](#) [Beidou 3](#) 2G8



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May10.	Ariane 5 ECA VA248	Eutelsat 7 / DirecTV 10
May16.	Falcon 9	Radarsat C-1, -2, C-3
Launch site: Vandenberg , USA		
May17.	Proton-M/Briz-M	Blagovest 14 100
May17.	Cosmic Girl / LauncherOne	Test Launch
Launch site: Spaceport America , USA		
May27.	Falcon 9	Amos 17
May31.	Proton-M/Briz-M	Ямал-601
May??	Soyuz-2-1B/Fregat	Glomass M/ 58
May??	Falcon 9	Starlink 1
June01.	PSLV C47	RISAT-2BR1
June21.	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.	
June22.	CZ-4B	ZY-2D Ziyuan-2D
Launch site: Taiyuan , China		
June27.	Atlas 5	AEHF 5
June??	Soyuz-2-1B	Arktika M 1
Launch site: Восточный (Vostochniy) Cosmodrome, Russia		
June??	Rokot / Briz KM	Gonets x 3 (No 24,25,26), Blits-M
Launch site: Плесецк (Plesetsk) Cosmodrome, Russia		
June??	CZ-11 - SL	CAS 6
June??	Ariane 5 ECA VA249	Intelsat 39 / GSAT 30
June??	Falcon Heavy	STP-02, FORMOSAT-7 (6 sat)
June??	Proton-M/Briz-M	Eutelsat 5 West B / MEV
??	KZ-11	Xiaoxiang-4 Jilin-1 (2A), gamma ray burst detection micro satellite, Yinhe, Xianrikui-1A, Xianrikui-1B, Yijian Duoxing, Xingyun-1 (01,02)
??	Pegasus-XL	ICON (Helio EX-1)
??Launch site: Cape Canaveral , USA		
??	CZ-3B/G2	TCSTAR 1
??	CZ-11	Zhuhai-1 Group-3
??	Soyuz-2-1V	??
July06.	Soyuz FG	Soyuz MS 13 (S60/61)
CDR: Александр Александрович Скворцов (Alexander Skvortsov), Luca Parmitano (ESA), Andrew Morgan (NASA)		
July08.	Falcon 9	80 Dragon SpX-18



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July25. [Delta IV](#) **GPS IIIA-2**

July25. [Falcon 9 \(SPx-DM2\)](#) [Dragon v2](#)

CDR: Robert **Benkhen**, Doug **Hurley**

July31. [Soyuz-2](#) [Progress MS 12](#)

July?? [Soyuz-2-1B/Fregat-M](#) Meteor M-2-2, Ionosfera 3, Ionosfera 4

Launch site: Восточный ([Vostochniy](#)) Cosmodrome, Russia

July?? [Vega](#) VV15 Falcon Eye 1

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

July?? [Ariane 5](#) ECA EDRS-C (Hylas 3)

July?? [CZ-3A](#) [Beidou 3](#) I3Q

July?? [CZ-5](#) Y3 SJ-20 (DFH-5 platform)

Aug17. [Atlas 5 N22 \(AV80\)](#) **CST-100 Starliner (unmanned test)**

Aug22. [Soyuz-2 1A](#) **Soyuz 14 GVK**

Aug?? [Zenit 3 SL /Fregat-SB](#) Lybid'

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

Aug?? SSLV D1 ??Two defence sats

Aug?? [Vega](#) SSMS POC (Small Spacecraft Mission Service Proof Of Concept)

?? [CZ-3B/E](#) Apstar-6D

Sep25. [Soyuz-2-1A](#) [Soyuz MS 15 \(S61/62\)](#)

CDR : Олэг Ива́нович **Скри́почка**, (Oleg Ivanovich **Skripotcka**), Christopher J. **Cassidy**, **Al Mansouri**

Sep?? H-2B (F9) HTV8

Sep?? [GSLV](#) MK II F10 GISAT -1

?? [Atlas 5](#) 551 (AV-086) AEHF-6

?? [Ariane 5](#) Inmarsat-5 F5 60

?? [Falcon 9](#) JCsat 18

Oct15. [Soyuz ST B/Fregat-MT](#) **Cosmo-SkyMed Secon Gen 1** **CSG-1 / CHEOPS**
(Characterising ExOPlanet Satellite)

Oct19. [Antares 230](#) [Cygnus OA-12](#)

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?? [Falcon 9](#) GPS IIIA-3

Oct?? [Ariane 5](#) ECA GSAT-20

Oct?? [Atlas 5](#) 551 STP-03

?? CZ-4B CBERS-4° A

Nov20. [Proton-M/Briz-M](#) **Elektro L – 3**

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



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Nov?? [Atlas 5](#) 422 (AV082) CST-100 Starliner
CDR: Michael **Fincke**, Chris **Ferguson**, Nicole Aunapu **Mann**

Nov?? [Vega](#) Falcon Eye 2
 ?? [Ariane 5](#) JCSat 17
 ?? [Ariane 5](#) ECA GEO-KOMPSAT-2B , Cheollian 2B
 ?? [Ariane 5](#) ECA Eutelsat Quantum
 ?? Kuaizhou-1A Hainan-1 (1), Hainan-1 (2), Hainan-1 (3)
 ?? CZ-6A Satellogic (1-13)
 ?? [Vega](#) Seosat (Ingenio)
 ?? Minotaur 1 NROL 111
 ?? [Falcon 9](#) SiriusXM SX7 **40**

Dec04. [Falcon 9](#) FT [Dragon SpX-19](#)

Dec20. [Soyuz-2](#) [Progress MS 13](#)

??Dec?? [Falcon 9](#) [Dragon v2](#) (USCV-1)
 Cdr: Victor **Glover**, Mike **Hopkins**, Soichi **Noguchi**

Dec?? [Proton-M/Briz-M](#) Ekspres 80, Ekspres 103
 Dec?? [Soyuz-2](#) 1B /[Fregat](#)-M CAS500-1
 Dec?? [Soyuz-2](#)-1B/[Fregat](#) Glonass K2 / 13
 Dec?? [Falcon 9](#) GPS IIIA-4
 Dec?? [CZ-3B/YZ-1](#) [Beidou 3](#) MEO M21, [Beidou 3](#) MEO M22
 Dec?? [Angara](#) A5/ DM3 Kosmos (Persei)
 ?? [Atlas 5](#) 551 AFSPC-7 (X-37B OTV 6)
 ?? [Atlas 5](#) 551 Asteroid Retrieval Spacecraft (ARS)
 ?? ?? EX-3
 ?? [Ariane 5](#) ECA Eutelsat BB4A (African Broadband Satellite)
 ?? [Ariane 5](#) ECA Star One D2
 ?? [Vega](#) OpSis
 ?? [Soyuz-2](#)- Razdan 1
 ?? [Proton-M/Briz-M](#) Kosmos
 ?? [Soyuz-2](#) 1A Energiya-100
 ?? [Soyuz-2](#)-1B Pion
 ?? [Soyuz-2](#) 1B /[Fregat](#)-M Tundra 3 **20**
 ?? [Soyuz-2](#) 1B /[Fregat](#)-M Tundra 4
 ?? [Rokot / Briz KMGeo IK 2](#) 13L
 Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia
 ?? [CZ-5](#) Chang'e-5 (Sample return)
 ?? CZ-7 New generation manned spacecraft



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?? CZ FY-3E Fengyun-3E
 ?? CZ FY-4B Fengyun-4B

?? [CZ-2C](#) HY-1D Haiyang-1D
 ?? [CZ-4B](#) HY-2C Haiyang-2C
 ?? CZ-6A HY-2D Haiyang-3A

?? CZ CBERS-SAR 1

?? CZ-?? [CAS-4A, CAS-4B](#)

Launch site: [Taiyuan](#), China

?? [KZ-1A](#) Jilin 1-10
 ?? [KZ-1A](#) Jilin 1-11
 ?? [KZ-1A](#) Jilin 1-12

?? [CZ-2D](#) GF-7 Gaofen-7

?? [CZ-11](#) Fengtai Shaonian-02

?? [CZ-3B/G2](#) ZX-18 Zhongxing-18

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

?? [PSLV](#) ScatSat, NovaSAR

3 + 15
 15 + 123

2020.

Jan?? [Falcon 9](#) [Dragon](#) SpX-20
 Jan?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x32)

?? - inaugural flight - Vega-C - Kourou ZLV
 ?? [Falcon 9](#) SAOCOM-1B, SAOCOM-1C

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

Feb?? H-2B (F10) HTV9
 Feb?? [CZ-3B/YZ-1](#) [Beidou 3](#) 2GQ
 Feb?? [Soyuz-2](#) [Progress MS](#) 14

?? [Vega](#) SSMS – 2 (Small Spacecraft Mission Service)
 ?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x32)
 ?? [CZ-5](#) B Test flight

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 100
 ?? [Ariane 5](#) Galaxy 30 / MEV-2



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Apr15. Soyuz 2-1A Soyuz MS 16 (S62/63)

CDR: Николай Владимирович Тихонов (Nikolai Tikhonov), Андрей Николаевич Бабкин (Andrei Babkin), Hoshide

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 1B /Fregat-M CAS500-1

?? CZ7 TZ 2 Tianzhou 2 (Logistic Cargo Vehicle)
 ?? CZ-2F/G SZ-12 Shenzhou-12
 ?? Vega CCERES (x3)

May?? Soyuz-2 1B Progress M-UM
 May?? Ariane 62 CSO-2

?? Proton-M MLM

June?? Atlas 5 402 CST 100 Starliner (USCV-2)
 Cdr: John Cassada, Sunita Williams

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)
 June?? Soyuz-2 Progress MS 15

July16 Ariane 62 OneWeb

July17. Atlas 5 (541) Mars 2020 rover 80

July25. 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 2020. A Russian-built entry, descent and landing package will shepherd the rover to the red planet's surface.

July?? CZ-5 Mars probe (orbiter + lander + rover)
 July?? Soyuz-2-1B/Fregat-M Glonass K2 / 14
 July?? Soyuz-2-1B Arktika-M

?? Vega-C Pleiades Neo 1, Pleiades Neo 2
 ?? Ariane 5 ViaSat 3 EMEA

Aug?? Falcon 9 FT Dragon SpX-21

Sep?? CZ CBERS-6
 Sep?? Soyuz-2-1B/Fregat-M Glonass K2 / 15
 Sep?? Falcon 9 GPS IIIA-5
 Sep?? Atlas 5 552 Dream Chaser Cargo System SNC-1
 Sep?? Soyuz-2 Progress MS 16

?? CZ-2F/G SZ-13 Shenzhou-13

Oct21. Soyuz 2-1A Soyuz MS 17 (S63/64)



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CDR: **Иванишин (Ivanishin), Вагнер (Vagner), Bowen**

Oct?? Vega Proba 3
 ?? [Falcon 9](#) SARah 1
 Nov?? [Soyuz-2](#) [Progress MS](#) 15
 Nov?? [Soyuz-2](#) 1B / [Fregat](#)-M Resurs №4

Dec15. [Atlas 5](#) Landsat 9

Dec?? GSLV-Mk III. Gaganyaan-1 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).

Dec?? [Falcon 9](#) [Dragon v2](#) USCV-3 (US Commercial Vehicles)
 CDR: ??(NASA), ??(NASA), ??(RF)

Dec?? [Soyuz-2](#) [Progress MS](#) 17 **60**

?? ?? PACE
 ?? ?? EX-4
 ?? ?? ACE
 ?? ?? HypIRI
 ?? Antares IMAP/STP-05

?? [Falcon 9](#) FT [Dragon](#) SpX-22

?? [Falcon H](#) ViaSat 3
 ?? [Falcon 9](#) KPLO (Korea Pathfinder Lunar Orbiter)

?? [Soyuz-2](#)-1B/ [Fregat](#)-M Glonass K1 15
 ?? [Soyuz-2](#) 1B / [Fregat](#)-M Glonass K1 / 16
 ?? [Soyuz-2](#) 1B / [Fregat](#)-M Glonass K1 / 17

?? [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
 ?? [Proton-M/Briz-M](#) Yenisey A1
 ?? [Proton-M/Briz-M](#) Ямал-501 **40**
 ?? [Proton-M/Briz-M](#) EutelSat
 ?? [Proton-M/Briz-M](#) Ямал-GK-1
 ?? [Proton-M](#) PTK NP

?? [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



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??	Soyuz-2-1B/Fregat-M	Kondor-FKA n.º 1
??	Soyuz-2-1B	Obzor R -1
??	??	Zond
??	??	MKA PN6 (Monika)
??	??	Картограф-ОЭ №1
??	Soyuz-2-1B/Fregat M	Meridian 19L
??	Angara 1.2	Kosmos
??	Ariane 5	Arsat 3
??	Ariane 5	ViaSat-3 Asia
??	Ariane 5 ECA	EDRS-D
??	??	Seosat-Ingenio-2
??	Vega C Cosmo-SkyMed Secon Gen 2	CSG-2
??	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)
??	CZ	FY-3F Fengyun-3F (Batch 2)
??	CZ	FY-3 Fengyun-3 RM-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
??	Safir 1 B	Tadbir
??	Safir 3A	Pars sepher

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2021.

Jan??	Atlas 5 402	USCV-4 (US Commercial Vehicles)
Feb??	Soyuz-2	Progress MS 18
Feb??	Falcon 9	GPS IIIA-6
Feb??	Falcon H	AFSPC-44
Mar30.	Soyuz-2-1A	Soyuz MS 18



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

Mar31. **Ariane 5 ES** **JWST (James Webb Space Telescope)**

Mar?? [Atlas 5](#) 411 SBIRS-GEO 5

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

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](#) 19

?? 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

July?? [Soyuz-2](#) 1a / [Fregat](#) Luna 25 (Luna-Glob-1)

July?? GSLV-Mk III. Gaganyaan-2

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

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

Sep30. **Soyuz-2-1A** **Soyuz MS 18**

Sep?? [Soyuz ST](#) B/[Fregat](#)-MT MetOp-SG A1/EPS-SG-a/Sentinel-5A

Sep?? [Falcon 9](#) SWOT

Sep?? [Falcon 9](#) OHB SARah 2/3

Oct16. **Atlas 5 401** **Lucy**

Oct?? [Atlas 5](#) 401/[Falcon 9](#) v1.1 JPSS Free Flyer 2 (TSIS-2)

Oct?? Ariane 62 CSO-3

Dec?? [Vega](#) C KOMPSAT 7

Dec?? GSLV-Mk III. Gaganyaan-3

Dec?? [Falcon 9](#) NROL-85 Intruder 13A713B

Dec?? [Falcon 9](#) NROL-87

?? [Ariane 5](#) MTG-I1

?? [Atlas 5](#) 552 Dream Chaser Cargo System SNC-2

?? [Falcon 9](#) GPS IIIA-7

?? [Falcon 9](#) GPS IIIA-8

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

?? [Soyuz-2](#)-1B/[Fregat](#)-M Transformable Modul TM

?? [Proton-M](#) HƏM-1

?? [Soyuz-2](#)-1B/[Fregat](#)-M Meteor M No2-4

?? [Angara](#) 1.2 [Gonets](#) x 3

?? [Proton-M/Briz-M](#) Ekspress-RV1, Ekspress-RV2



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??	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
??	Proton-M/DM-03	Glonass-M/K21,K22,K23
??	Soyuz-2-1B/Fregat-M	Kondor-FKA n.º 2
??	Soyuz-2 1B /Fregat-M	Resurs №5
??	Angara A5/ Briz-M	Luch 5M
??	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)
??	Soyuz ST B/Fregat-MT	OneWeb smalsat (x32)
??	Soyuz ST B/Fregat-MT	OneWeb smalsat (x32)
??	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
Feb??	Atlas 5 402 / Falcon 9	USCV-6 (US Commercial Vehicles)
??	Soyuz-2	Progress MS 21

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](#)

Mar??	Atlas 5	NROL-107 Silentbaker
??	CZ7	TZ 4 Tianzhou 4 (Logistic Cargo Vehicle)
??	CZ-5 B	Mengtian Lab module Space station module
??	CZ-2F/G	SZ-15 Shenzhou-15

May20. [Ariane 5ECA](#) **JUICE (JUper ICy moon Explorer)**

Apr??	CZ-3B/G2	LSTSAT (Nicasat 1)
June04.	SLS Block I	Orion: Exploration Mission 2 (Crew to Cislunar) Mission)



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June??	Ariane 5	MTG-I2
??	Sunkar ??	
??	Soyuz-2	Progress MS 20
Aug??	H2B	Phobos sample return
Aug??	Atlas 5 402 / Falcon 9	USCV-7 (US Commercial Vehicles)
Aug??	Atlas 5 411	SBIRS-GEO 6
Sep30.	Soyuz-2-1A	Soyuz MS 20
Dec??	Soyuz ST B/ Fregat -MT	MetOp-SG B1
Dec??	Vega C	FLEX (Fluorescence Explorer satellite)
??	Sunkar Federatsia (unmaned)	
??	Soyuz-2	Progress MS 21
??	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
??	Soyuz-2-1B/Fregat -M	Resurs PM - 1
??	Angara A5/ Briz-M	Luch 5M
??	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
Feb??	Atlas 5 402 / Falcon 9	USCV-8 (US Commercial Vehicles)
Mar30.	Soyuz-2-1A	Soyuz MS 21
??	CZ7	TZ 5 Tianzhou 5 (Logistic Cargo Vechile)
??	CZ-2F/G	SZ-16 Shenzhou-16



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- ?? [Soyuz-2](#) [Progress MS 23](#)
 ?? [Ariane 5](#) MTG-S2/Sentinel-4A
- Aug?? [Atlas 5 402](#) / [Falcon 9](#) USCVC-9 (US Commercial Vehicles)
- Sep30.** [Soyuz-2-1A](#) [Soyuz MS 22](#)
- ?? [Soyuz-2](#) [Progress MS 24](#)
- ?? 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
 ?? [Soyuz-2-1B/Fregat-M](#) Resurs PM - 2
- ?? [Vega C](#) Space Rider 4
 ?? [Soyuz ST B/Fregat-MT](#) Sentinel-1C
- ?? CZ SPORT (Solar Polar Orbit Radio Telescope)
 ?? CZ FY-4D Fengyun-4D
 ?? CZ Chang'e-7 (Moon south pole landing)
- ?? [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
- ?? [Soyuz-2 1a](#) / [Fregat](#) [Luna 26](#) (Luna-Resurs OA)

2024

- Feb?? [Atlas 5 402](#) / [Falcon 9](#) USCVC-10 (US Commercial Vehicles)
- Mar30.** [Soyuz-2-1A](#) [Soyuz MS 23](#)
- ?? CZ7 TZ 6 Tianzhou 6 (Logistic Cargo Vehicle)
- Aug?? [Atlas 5 402](#) / [Falcon 9](#) USCVC-11 (US Commercial Vehicles)
- Sep30.** [Soyuz-2-1A](#) [Soyuz MS 24](#)



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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	Luna 27 (Luna-Resurs PA)	Testing an adaptive landing mode with a radio-beacon; delivering a rover
??	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	
??	CZ-5	Chang'e-6 Moon polar area sample return	
??	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	Luna28 (Luna-Grunt-1)	delivering a new-generation rover for gathering, analysis and uploading of samples
??	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	
2026.			
June??	Angara A5P/KVTK	A mission to Venus (<i>Venera D</i>) would be launched	
??	CZ	Jupiter Orbiter	
??	CZ	Mars Sample Return	



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- ?? CZ Chang'e-8 (Moon north pole landing)
- ?? [Angara](#) A5/DM03 Bumerang (FobosGrunt 2)

2069.

- ?? ?? [Interstellar mission](#)