



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (2.11.2020.)

2020.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in red. Last change on 02.Nov.2020.

Nov03. **2258UTC** [Atlas 5](#) **531** **NROL-101**
Launch site: [Cape Canaveral](#), USA

Nov03. **CZ-6 (Y5)** **QI-1; QL-4**
Launch site: [Taiyuan](#), China

Nov04. **2328UTC** [Falcon 9](#) **GPS IIIA-4**
Launch site: [Cape Canaveral](#), USA

Nov05. **GX-1** **Gushenxing-1 (Ceres-1)** **??Two small satellites**
Launch site: [Jiuquan](#), China

Nov06. **CZ-6A** **Satellogic (1-13)**
Launch site: [Taiyuan](#), China

Nov07. **0932UTC** [PSLV \(C49\)](#) **RISAT-2BR2 + 4 Kleos + 4 Spiresats**
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

Nov14. [Vega](#) **VV-17 Seosat (Ingenio), TARANIS**
Launch site: [Kourou](#), French Guiana

Nov15. **0049UTC** [Falcon 9](#) [Dragon v2 \(USCV-1\)](#)
Cdr: Michael **Hopkins**, Victor **Glover**, Soichi **Noguchi**, Shannon **Walker**
Launch site: [Cape Canaveral](#), USA

Nov18. [Falcon 9](#) **NROL-108**
Launch site: [Cape Canaveral](#), USA **60**

Nov24. [Soyuz-2 1B /Fregat-M](#) [Gonets](#) x 3 (No 30,31,32)
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

Nov24. [CZ-5](#) **Y5** **Chang'e-5 (Sample return)**
Launch site: [Wenchang](#), China

Nov28. [Angara A5](#) **Kosmos**
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

Nov29. **0715UTC** [H-IIA](#) **JDRS-1**

Nov?? [Soyuz-2](#) ST A (VS24) **Falcon Eye 2**
Launch site: [Kourou](#), French Guiana

Nov?? [CZ-3B/G3](#) **Tiantong-1 (02)**
Launch site: [Xichang](#), China

Nov?? **0200UTC** [Delta IV-H](#) **NROL-44**
Launch site: [Cape Canaveral](#), USA



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Nov?? [Falcon 9](#) Jason – Sentinel 6A Michael Freillich
 Launch site: [Vandenberg, USA](#)

Nov?? CZ-6 HY-3A Haiyang-3A
 Nov?? [Electron](#) F16 ??
 Nov?? [Falcon 9](#) [Starlink](#) L15

?? [Soyuz-2](#) 1B / [Fregat](#)-M Glonass K1 / 16
 ?? [KZ-1A](#) Jilin-1, Gaofen-02F
 ?? CZ-4C Gaofen-3 (02)
 ?? CZ-6 2m resolution multispectral satellite
 ?? [Soyuz-2](#) 1A [Bars-M](#) 3

Dec09. [CZ-11](#) **GECAM**

Dec14. [Soyuz-2](#) ST / [Fregat](#) (VS25) **CSO-2**
 Launch site: [Kourou](#), French Guiana

Dec15. [Falcon 9](#) **SpaceX Transporter-1**
 Launch site: [Cape Canaveral](#), USA

Dec17. [Soyuz-2](#) B / [Fregat](#)-MT **OneWeb smalsat (x36)** 40

Dec20. **CZ-8** **Taihu -1**

Dec22. **Firefly Alpha first flight**
 Launch site: [Vandenberg](#), USA

Dec?? SSLV D1 Microsat 2A
 Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

Dec?? [Falcon 9](#) [Dragon](#) SpX-21
 Launch site: [Cape Canaveral](#), USA

Dec?? [Falcon 9](#) Turksat 5A
 Launch site: [Cape Canaveral](#), USA

Dec?? [Falcon 9](#) SiriusXM SX7
 Launch site: [Cape Canaveral](#), USA

Dec?? [Delta IV](#)-H NROL-82
 Dec?? [PSLV](#) XL (C50) GSAT 12R
 Dec?? [Electron](#) F17 STP 27R

?? Cosmic Girl / LauncherOne Launch 3 ELaNaXX
 Launch site: [Spaceport America](#), USA

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

?? Rocket v3.1 DARPA Launch Challenge 3
 Launch site: [Pacific spaceport complex Alaska](#), USA



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?? [Soyuz-2-1A/Fregat](#) 14F01 (Neutron)
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

?? [Soyuz-2-1V](#) ??
?? [Soyuz-2-1B](#) Pion
?? [Soyuz-2-](#) Razdan 1 **20**

?? CZ FY-4C Fengyun-4C

?? ?? 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

?? [CZ-11](#) Fengtai Shaonian-02
?? [CZ-2D](#) CAS 6
?? CZ CBERS-SAR 1
?? CZ-4C FY-3E Fengyun-3E
?? CZ CBERS-6
?? [KZ-1A](#) GeeSat-1A; GeeSat-1B

?? ?? EX-3
?? JL-1 (Y2) Yizheng-1, Yizheng-2 two 0,9 m resolution satellites
?? ?? Xidian -1

?? CZ-11 CAS-5A, CAS-5B, CAS-7A, CAS-/C
Launch site: [Jiuquan](#), China

?? CZ-6 LC-16 Qilu-1, Qilu-4
Launch site: [Taiyuan](#), China

?? [Safir 1 B](#) Nahid-1
Launch site: [Semnan](#), Iran

77 + 68

2021.

Jan04. [Atlas 5 422 \(AV082\)](#) CST-100 Starliner unmaned test

Jan?? Shuang Quxian-1 SQX-1 (Y2) Fangzhou-2
Launch site: [Jiuquan](#), China

?? [Soyuz-2](#) [Progress MS 16](#)
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

?? [Soyuz-2 ST](#) Galileo-FOC FM23, Galileo-FOC FM24
Launch site: [Kourou](#), French Guiana

?? [Ariane 5](#) ECA GSAT-20
?? [Falcon 9](#) GPS IIIA-5 **160**



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Feb25. [Falcon 9 FT](#) [Dragon SpX-22](#)

Feb28. [Falcon H](#) **AFSPC-44**

Feb?? [Soyuz-2-1B](#) / Fregat Arktika-M No1
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

Feb?? [Antares](#) 230 [Cygnus](#) OA-15
Feb?? [Falcon 9](#) SARah 1
Feb?? [Ariane 5](#) ECA Eutelsat Quantum / Star One D2
Feb?? [Atlas 5](#) 551 STP-03
Feb?? [Vega](#) VV-18 Pleiades Neo 1

?? [Electron](#)/Photon CAPSTONE (Cislunar Autonomous Positioning System Technology Operations and Navigation Experiment)
Launch site: [Wallops Island](#), USA

?? [Falcon 9](#) SiriusXM SX8
Launch site: [Cape Canaveral](#), USA

?? [Ariane 5](#) Arsat 3
?? [Ariane 5](#) ViaSat-3 Asia
?? [Ariane 5](#) ECA EDRS-D
?? [CZ-3B/G3](#) FY-4B Fengyun-4B
?? [SSLV](#) D2 Demo 2
?? [H-IIA](#) Astro H2 (Hitomi-2), SLIM (Smart Lander for Investigating Moon)
?? [H-IIA](#) 204 Inmarsat-6 F1
?? Minotaur 1 NROL 111
?? [Soyuz-2](#) 1B /[Fregat](#)-M Tundra (Kupol) 4

Mar19. [Soyuz-2](#) [Progress MS 17](#) 140

Mar30. [Falcon 9](#) [Dragon v2 \(USCV-2\)](#)
Cdr: Shane **Kimbrough**, Megan **McArthur**, Akihiko **Hoshide**, Thomas **Pesquet**

Mar?? [Atlas 5](#) 411 SBIRS-GEO 5
Mar?? [Soyuz-2](#) B/[Fregat](#)-MT OneWeb smalsat (x32)
Mar?? [GSLV](#) MK II Chandrayan-3
Mar?? [CZ-5B](#) Y2 Tian He Space Station Core Module
Mar?? [Atlas 5](#) 511 (AV-085) AFSPC-8 (GSSAP 5, GSSAP 6)

?? [GSLV](#) F10 GISAT 1
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

?? [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).

?? [Soyuz-2](#) B /[Fregat](#)-M CAS500-1; +

Apr01. [Soyuz-2-1A](#) [Soyuz MS 18](#)
CDR: Олэг Вікторович **Новіцкий** (Oleg **Novitsky**), Пётр Валерьевич **Дубров** (Pyotr **Dubrov**), Андрей Иванович **Борисенко** (Andrei Ivanovich **Borisenko**), ??**Mark Vande Hei**

Apr08. [Atlas 5](#) **Landsat 9**



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Apr20. **Proton-M** **MLM**
 Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

Apr?? [Falcon 9](#) IXPE (Imaging X-ray Polarimetry Explorer)

?? [Soyuz-2](#) 1B /[Fregat](#)-M Resurs №4

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

?? [PSLV](#) Oceansat-3A
 ?? [PSLV](#) RISAT_1A
 ?? [GSLV](#) MK II F12 GISAT -2
 ?? [CZ-3B/G3](#) Tiantong-1 (03)
 ?? [GSLV](#) GSAT - 32 120

?? [PSLV](#) ScatSat, NovaSAR

?? [PSLV](#) EnMap

May?? CZ7 TZ 2 Tianzhou 2 (Logistic Cargo Vehicle)
 May?? [Soyuz-2](#) 1A Cosmo-SkyMed Secon Gen 2 CSG-2

?? [Ariane 5](#) ViaSat 3 EMEA
 ?? Ariane 62 Galileo-FOC FM23, Galileo-FOC FM24
 ?? [PSLV](#) Amazonia
 ?? [PSLV](#) HRSAT
 ?? [PSLV](#) Cartosat-3B
 ?? [PSLV](#) IRNSS-1J
 ?? [CZ-2D](#) SJ-19 Shijian-19

June22. **[Falcon 9](#)** **DART (Double Asteroid Redirection Test)**

June?? [Atlas 5](#) 422 (AV083) CST-100 Starliner
 CDR: Michael **Fincke**, Chris **Ferguson**, Nicole Aunapu **Mann**
 Launch site: [Cape Canaveral](#), USA

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.

June?? [Falcon 9](#) FT [Dragon](#) SpX-23

June??. - inaugural flight - Vega-C VV-19 Lares 2
 Launch site: [Kourou](#), French Guiana

?? Ariane 62 Galileo-FOC FM25, Galileo-FOC FM26
 ?? [Soyuz-2](#) 1B /[Fregat](#)-M Tundra (Kupol) 5
 ?? [Soyuz-2](#) 1B /[Fregat](#)-M Tundra (Kupol) 6
 ?? [Soyuz-2](#)-1B/[Fregat](#)-M Glonass M / 61 100
 ?? [Falcon 9](#) GPS IIIA-6

?? [Soyuz-2](#) 1A [Bars-M](#) 4
 ?? [Angara](#) A5/ DM 03(Persei) Kosmos



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??	Soyuz-2-1V	??
??	Soyuz-2-1V	??
??	Angara 1.2	Kosmos
July??	CZ-2F/G	SZ-12 Shenzhou-12
July??	Vulcan/Minotaur 6/ Falcon 9 v1.1	JPSS-2
July??	Vega C	Biomass
July??	GSLV-Mk III.	Gaganyaan-2
July??	Antares 230	Cygnus OA-16
??	Vega-C VV-20	Pleiades Neo 2
Launch site: Kourou , French Guiana		
??	Soyuz ST B/ Fregat -MT	EarthCare
??	CZ-2F/G	SZ-13 Shenzhou-13
Aug12.	Falcon 9	Dragon v2 USCV-3 (US Commercial Vehicles)
CDR: Lindgren, ??(NASA), ??(RF)		
Aug??	Soyuz-2	Progress MS 18
Aug??	Atlas 5 551	AFSPC-12 (WFOV (Wide Field of View Testbed missile-warning satellite))
Aug??	Soyuz-2-1B / Fregat -M	Meteor M No2-3
Sep14.	Soyuz-2 1B	Progress M-UM
Sep16.	Atlas 5 552	Dream Chaser Cargo System SNC-1 80
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
??	Delta IV -H	NROL-91
Oct01.	Soyuz-2 1a / Fregat	Luna 25 (Luna-Glob-1)
Launch site: Восточный (Vostochniy) Cosmodrome, Russia		
Oct05.	Soyuz-2-1A	Soyuz MS 19
CDR: Антон Николаевич Шкаплеров (Anton Nikolaevich Shkaplerov), Андрей Николаевич Бабкин (Andrei Babkin), Сергей Владимирович Корсаков (Sergei Vladimirovich Korsakov)		
Oct16.	Atlas 5 401	Lucy
Oct31.	Ariane 5 ES	JWST (James Webb Space Telescope)
Oct31.	Angara 1.2	Kompsat-6
Oct??	Falcon 9	Dragon v2 Axiom Crew Dragon
Cdr: Michael Lopez-Alegria , Thomas Cruise		
Oct??	Atlas 5 401/ Falcon 9 v1.1	JPSS Free Flyer 2 (TSIS-2)
Oct??	Ariane 62	CSO-3
??	Falcon 9	PACE



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Nov17.

[Soyuz-2](#)

[Progress MS 19](#)

Nov?? SLS-1 Artemis-1 Orion (unmanned trip around the Moon) Exploration Mission 1
(Distant Retrograde Orbit (DRO) Tactical DRM

Dec07.

[Atlas 5](#) 541

GOES-T (National Security Space Launch program)

Dec08.

[Soyuz-2-1A](#)

[Soyuz MS 20](#)

CDR: Александр Александрович **Мисуркин** (Alexander Alexanderovich **Misurkin**), **xx,yy**

Dec?? [Atlas 5](#) 402 CST 100 Starliner **1**
Cdr: Sunita **Williams**, Josh **Cassada**, Jeanette **Epps**

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

Dec?? GSLV-Mk III. Gaganyaan-3 **60**

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

?? [Atlas 5](#) 551 Asteroid Retrieval Spacecraft (ARS)

?? [Falcon H](#) ViaSat 3

?? ?? Seosat-Ingenio-2

?? [Vega](#) OpSis

?? [Vega C](#) CERES (x3)

?? [Vega](#) SSMS – 2 (Small Spacecraft Mission Service)

?? [Vega](#) Proba 3

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

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

?? [Proton-M/Briz-M](#) Ekspress AMU 3 / Ekspress AMU 7

?? [Proton-M/Briz-M](#) Ekspress AMU 4

?? [Soyuz-2](#) 1A Energiya-100

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

?? [Soyuz-2-1B/Fregat-M](#) Smotr R №1

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

?? [Soyuz-2-1B/Fregat-M](#) Kondor-FKA n.º 2 **40**

?? [Soyuz-2](#) 1B /[Fregat-M](#) Resurs №5

?? [Angara](#) A5/ [Briz-M](#) Luch 5M

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

?? [Soyuz-2-1B/Fregat-M](#) Glonass K2 / 13

?? [Soyuz-2-1A/Fregat-M](#) [Gonets](#) x 6

?? [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



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??	Soyuz-2-1A	Kobalt M
??	Soyuz-2-1A	Foton M
??	Soyuz-2-1B/Fregat-M	Kondor-FKA n.º 1
??	Soyuz-2-1B	Obzor R -1
??	??	Zond
??	??	MKA PN6 (Monika)
??	??	Картограф-ОЭ №1
??	Soyuz ST B/Fregat (VS26)	OneWeb smalsat (x34)
Launch site: Kourou , French Guiana		
??	Soyuz-2 B/Fregat	OneWeb smalsat (x36)
Launch site: Восточный (Vostochniy) Cosmodrome, Russia		
??	Soyuz-2 B/Fregat	OneWeb smalsat (x34)
??	Soyuz-2 B/Fregat	OneWeb smalsat (x36)
??	Soyuz-2B/Fregat	OneWeb smalsat (x36) 20
??	Soyuz-2 B/Fregat	OneWeb smalsat (x36)
??	Soyuz-2 B/Fregat	OneWeb smalsat (x34)
??	Soyuz-2 B/Fregat	OneWeb smalsat (x34)
??	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-2 B/Fregat-MT	OneWeb smalsat (x32)
??	Ariane 62	OneWeb
Launch site: Kourou , French Guiana		
??	Vega C CNES/UAE Mars mission	
??	Vega-C Pleiades Neo 3, Pleiades Neo 4	
??	CZ-3B/G2	TCSTAR 1
??	CZ	Venus Global Sensing Probe
??	CZ	FY-3G Fengyun-3G (Batch 2)
??	??	Sansha-1 (1)
??	??	Sansha-1 (2)
??	CZ-4B	HY-3B Haiyang-3B
??	Safir 1 B	Tadbir
??	Safir 3A	Pars sepher

165

2022.

Jan??	??	Solar Sentinels
Jan??	PSLV XL	Aditya'
??	CZ-5 B	Wentian Lab module Space station module



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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.

Mar18.Soyuz-2-1A Soyuz MS 21
CDR: Николай Чуб (Nikolai Aleksandrovich Chub),

Mar??	Atlas 5	NROL-107 Silentbaker
Mar??	Soyuz-2	Progress MS 20
Mar??	Proton-M/Briz-M	Angosat - 2
??	CZ7	TZ 3 Tianzhou 3 (Logistic Cargo Vehicle)
??	CZ-2F/G	SZ-14 Shenzhou-14
Apr??	CZ-3B/G2	LSTSAT (Nicasat 1)
??	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 (JUPiter ICy moon Explorer)

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

June??	Ariane 5	MTG-I2
June??	Atlas 5 402	USCV-4 (US Commercial Vehicles)
??	SLS-1	Artemis-2 Orion (manned trip around the Moon)
July??	Soyuz-2	Progress MS 21
??	Sunkar ??	

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

Aug??	H2B	Phobos sample return
Aug??	Atlas 5 411	SBIRS-GEO 6

Oct?? [Soyuz-2-1A](#) [Soyuz MS 22](#)
Cdr: Олег Кононенко (Oleg Кононенко), Анна Кикина (Anna Kikina),

Oct?? [Vega](#) C Biomass

??	Soyuz-2-1A	Soyuz MS 23
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Cdr: Прокопьев,

Nov??	Soyuz-2	Progress MS 22
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Dec??	Soyuz ST B/Fregat -MT	MetOp-SG B1
Dec??	Vega C	FLEX (Fluorescence Explorer satellite)
Dec??	Delta IV -H	NROL-68



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

?? Sunkar Federatsia (unmaned)

?? [Falcon 9](#) GPS IIIA-9/GPS IIIB-1
 ?? [Falcon 9](#) GPS IIIA-10/GPS IIIB-2

?? [Proton-M/Briz-M](#) Elektro L - 4
 ?? [Proton-M/Briz-M](#) Elektro L - 5

?? [Soyuz-2-1B/Fregat-M](#) Smotr R №2
 ?? [Soyuz-2-](#) Razdan 2
 ?? [Soyuz-2-1B/Fregat-M](#) Resurs PM - 1

?? [Ariane 5](#) Moon's south pole samples return mission
 ?? [Ariane 5](#) Comsat NG 2 (Syracuse 4B)

?? Vega_CSpace Rider flight 1
 ?? Vega_CSpace Rider flight 2
 ?? [Vega](#) C CryoSat FO

?? CZ Xuntian (Two Meter Space Telescope)
 ?? CZ HY-3C Haiyang-3C

2023.

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

Apr?? [Soyuz-2-1A](#) [Soyuz MS](#) 24
 Cdr: Oleg **Artemeyev**, Mukhtar **Aymakhanov**

?? CZ7 TZ 5 Tianzhou 5 (Logistic Cargo Vechile)
 ?? CZ-2F/G SZ-16 Shenzhou-16

June?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-6 (US Commercial Vehicles)

July?? [Soyuz-2](#) [Progress MS](#) 24

?? [Ariane 5](#) MTG-S2/Sentinel-4A

Oct?? [Soyuz-2-1A](#) [Soyuz MS](#) 25

Nov?? [Soyuz-2](#) [Progress MS](#) 25

Dec?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-7 (US Commercial Vehicles)

?? SLS Block IA II Orion: Exploration Mission 3 (Crew to Cislunar)

?? Sunkar Federatsia (unmaned 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



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??	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
??	Proton-M/Briz-M	Space Drone x2
??	Proton-M/Briz-M	Inmarsat-6 F2
??	Proton-M/Briz-M	Kosmos
??	Proton-M	НЭМ-1
??	Proton-M/Briz-M	Ekspress – AMU 5
??	Proton-M/Briz-M	Ekspress – AMU 6
??	Proton-M/Briz-M	Ekspress – RV 3, Ekspress – RV 4
??	Proton-M/Briz-M	Yenisey A1
??	Proton-M/Briz-M	Ямал-501
??	Proton-M/Briz-M	Ямал-GK-1
??	Proton-M	РТК NP
??	Proton-M/Briz-M	Ekspress-RV1, Ekspress-RV2
??	Proton-M/Briz-M	Anik G2V
??	Proton-M/Briz-M	Luch-5VM 1
??	Proton-M/Briz-M	Luch-5VM 2
??	Ariane 5 VA254	MTG-S1/Sentinel-4A
Launch site: Kourou , French Guiana		
??	Vega C Space Rider 3	
??	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)
??	CZ-3B/G2	Palapa N1R
??	GSLV MK III	Shukrayaan (Venus orbiter)
??	Angara A5P/DM03	Luch 5 – 2
??	Soyuz-2-1b	Bion-M No. 2
??	Angara A5P/DM03	Luch 5 – 3
??	??	Ямал GK 2
??	Soyuz-2 1a / Fregat	Luna 26 (Luna-Resurs OA)

2024

Jan?? [Soyuz-2](#) [Progress MS](#) 26

Feb?? [Delta IV](#)-H NROL-70



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Mar??	Soyuz-2	Progress MS 27	
Apr??	Soyuz-2-1A	Soyuz MS 26	
June??	Atlas 5 402 / Falcon 9		USCV-8 (US Commercial Vehicles)
??	CZ7	TZ 6 Tianzhou 6 (Logistic Cargo Vechile)	
Sep??	GSLV MK III		Mangalyaan – 2 Mars Orbiter
Oct??	Soyuz-2-1A	Soyuz MS 27	
Oct??	EELV	GOES-U	
Dec??	Atlas 5 402 / Falcon 9		USCV-9 (US Commercial Vehicles)
??	SLS-1	Artemis-3	Orion (EM-3 Crew to Gateway with landing on Moon)
??	Sunkar	Federatsia (Light 14t – 2 man to ISS)	
??	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

June??	Atlas 5 402 / Falcon 9		USCV-10 (US Commercial Vehicles)
??	SLS-1B Artemis-4		Orion (EM-4 Crew to Gateway with landing on Moon)
Aug??	Soyuz-2 1b	Luna 27 (Luna-Resurs PA)	Testing an adaptive landing mode with a radio-beacon; delivering a rover
Dec??	Atlas 5 402 / Falcon 9		USCV-11 (US Commercial Vehicles)
??	SLS Block IA II		Orion: Exploration Mission 5 (Crew to Cislunar)
??	Soyuz-2-1A	Soyuz MS 28	
??	SLS Block I		Europa Clipper



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?? [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?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-12 (US Commercial Vehicles)

Dec?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-13 (US Commercial Vehicles)

??June?? [Angara](#) A5P/KVTK A mission to Venus (*Venera D*) would be launched

?? SLS-1B Artemis-5 Orion (EM-5 Crew to Gateway with landing on Moon)

?? SLS-1B Artemis-6 Orion (EM-6 Crew to Gateway with landing on Moon)

?? CZ Jupiter Orbiter

?? CZ Mars Sample Return

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

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

2027.

June?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-14 (US Commercial Vehicles)

2069.

?? ?? [Interstellar mission](#)