



## Blog Gorana Hudeca

### Predstojeća lansiranja u Svemir (12.8.2019.)

2019.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in **red**. Last change on **12.Aug 2019**.

**Aug16. 1257UTC** [Electron](#) **BlackSky Global 4**  
Launch site: [Kaitorete Spit](#), New Zeland

**Aug17.** [Jielong-1](#) **Ojandao-1**  
Launch site: [Jiuquan](#), China

**Aug19.** [CZ-3B/G2](#) **ZX-18 Zhongxing-18**  
Launch site: [Xichang](#), China

**Aug22. 1455UTC** [Delta IV](#) **GPS IIIA-2**  
Launch site: [Cape Canaveral](#), USA

**Aug22. 0938UTC** [Soyuz-2 1A](#) **Soyuz 14 GVK**  
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

**Aug29.** [KZ-1A](#) ??  
Launch site: [Jiuquan](#), China

Aug?? [Rokot / Briz KMGeo IK 2](#) 13L  
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

Aug?? [Soyuz-2-1B/Fregat](#) 14F01 (Neutron)

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

**Sep01.** **Cosmic Girl / LauncherOne** **Test Launch**  
Launch site: [Spaceport America](#), USA

**Sep10.** [Vega](#) **SSMS POC (Small Spacecraft Mission Service Proof Of Concept)**  
Launch site: [Kourou](#), French Guiana

**Sep10. 2133UTC** **H-2B (F9)** **HTV8**  
Launch site: [Tanegashima](#), Japan

**Sep20.** **Astra Space** **NSLSat-1**  
Launch site: Kodiak, USA

**Sep25. 1357UTC** [Soyuz-2-1A](#) [Soyuz MS 15 \(S61/62\)](#)  
CDR : Олэг Ива́нович Скри́почка, (Oleg Ivanovich **Skripotscka**), Jessica **Meir**, Hazzaa **Al Mansouri**  
80

**Sep30.** [Proton-M/Briz-M](#) **EutelSat 5 West B / MEV**

Sep?? Pegasus-XL **ICON ([Helio EX-1](#))**  
??Launch site: [Cape Canaveral](#), USA

Sep?? CZ-6A **Satellogic (1-13)**



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|   |   |   |
|---|---|---|
| Sep??<br>Sep??  | <a href="#">CZ-11</a><br>SSLV D1  | Zhuhai-1 Group-3<br>Two defence sats  |
| ??<br>??<br>??<br>??<br>??  | <a href="#">Atlas 5</a> 551 (AV-086)<br><a href="#">Ariane 5</a><br><a href="#">Electron</a><br><a href="#">Electron</a><br><a href="#">Soyuz-2</a> -1V                         | AEHF-6<br>Inmarsat-5 F5 (GX-5)<br>KSM-1,KSM-2,KSM-3 (Kleos Scouting Mission)<br>Dove / Flock-y<br>??  |
| <b>Oct15.</b>   | <a href="#">Soyuz ST B/Fregat-MT</a><br><b>(Characterising ExOPlanet Satellite)</b>   | <b>Cosmo-SkyMed Secon Gen 1</b> <b>CSG-1 / CHEOPS</b>   |
| <b>Oct17.</b>   | <a href="#">Falcon 9</a>  | <b>Starlink v1 Flight 1</b>   |
| <b>Oct19.</b>   | <a href="#">Antares 230</a>   | <a href="#">Cygnus OA-12</a>  |
| Oct??<br>Launch site:   | <a href="#">CZ-3A</a><br><a href="#">Xichang</a> , China  | <a href="#">Beidou 3</a> MEO M19, <a href="#">Beidou 3</a> MEO M20  |
| Oct??<br>Launch site:   | <a href="#">Atlas 5</a> N22 (AV80)<br><a href="#">Cape Canaveral</a> , USA  | CST-100 Starliner (unmanned test)   |
| Oct??<br>Oct??<br>Oct??<br>Oct??  | <a href="#">Atlas 5</a> 551<br><a href="#">PSLV</a> C47<br><a href="#">PSLV</a> C48 - XL<br><a href="#">GSLV</a> MK II F12  | STP-03<br>CARTOSAT-3, NEMO-AM<br>RISAT-2BR1<br>GISAT -1   |
| ??  | CZ-4B   | CBERS-4° A <b>60</b>  |
| <b>Nov04.</b>   | <a href="#">Falcon 9</a>  | <b>Starlink v1 Flight 2</b>   |
| <b>Nov15.</b><br>CDR: Robert <b>Benkhen</b> , Doug <b>Hurley</b>                                | <a href="#">Falcon 9 (SPx-DM2)</a>  | <a href="#">Dragon v2</a>   |
| <b>Nov20.</b>   | <a href="#">Soyuz ST B/Fregat-MT</a>  | <b>OneWeb smalsat (x32)</b>   |
| <b>Nov30.</b><br>CDR: Michael <b>Fincke</b> , Chris <b>Ferguson</b> , Nicole Aunapu <b>Mann</b> | <a href="#">Atlas 5 422 (AV082)</a>   | <b>CST-100 Starliner</b>  |
| Nov??<br>Nov??<br>Nov??<br>Nov??  | <a href="#">Vega</a><br><a href="#">CZ-2D</a><br><a href="#">Falcon 9</a><br>SSLV D2  | Falcon Eye 2<br>ETRSS-1 (Ethiopian multi-spectral Remote Sensing Satellite)<br>Anasis II<br>Demo 2  |
| ??<br>??<br>??<br>??<br>??<br>??<br>??<br>??  | <a href="#">Ariane 5</a><br>Kuaizhou-1A<br>Minotaur 1<br><a href="#">Falcon 9</a><br>Minotaur IV<br><a href="#">PSLV</a><br><a href="#">CZ-5</a> Y3<br><a href="#">Falcon 9</a> | JCSat 17<br>Hainan-1 (1), Hainan-1 (2), Hainan-1 (3)<br>NROL 111<br>SiriusXM SX7<br>NROL 129<br>HRSAT<br>SJ-20 (DFH-5 platform)<br>JCSat 18 |
| <b>Dec04.</b>   | <a href="#">Falcon 9</a> FT   | <a href="#">Dragon</a> SpX-19   |
| <b>Dec05.</b>   | <a href="#">Soyuz ST B/Fregat-MT</a>  | <b>OneWeb smalsat (x32)</b>   |



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**Dec20.**

**[Soyuz-2](#)**

**[Progress MS 13](#)**

Dec?? [Rokot / Briz KM](#) [Gonets](#) x 3 (No 24,25,26), [Blits-M](#)  
 Launch site: [Плесецк \(Plesetsk\)](#) Cosmodrome, Russia 40

Dec?? [Proton-M/Briz-M](#) Elektro L – 3  
 Launch site: [Байконур \(Baikonur\)](#) Cosmodrome, Kazakhstan

Dec?? [Proton-M/Briz-M](#) Ekspress 80, Ekspress 103  
 Dec?? [Soyuz-2-1B/Fregat-M](#) CAS500-1  
 Dec?? [Soyuz-2-1B/Fregat](#) Glonass K2 / 13  
 Dec?? [CZ-3B/YZ-1](#) [Beidou 3](#) MEO M21, [Beidou 3](#) MEO M22  
 Dec?? [Angara A5/ Briz M](#) Kosmos  
 Dec?? [Falcon 9](#) GPS IIIA-3  
 Dec?? [Soyuz-2-1B](#) Pion

?? [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)

?? [Vega](#) OpSis

?? [Soyuz-2-](#) Razdan 1

?? [Proton-M/Briz-M](#) Kosmos

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

?? [Soyuz-2](#) 1B /[Fregat](#)-M Tundra 3

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

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

?? [Soyuz-2-1B/Fregat](#) M Meridian 19L 20

?? 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-11 Xiaoxiang-4 Jilin-1 (2A), gamma ray burst detection micro satellite, Yinhe, Xianrikui-1A, Xianrikui-1B, Yijian Duoxing, Xingyun-1 (01,02)

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

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

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



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

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

?? [CZ-3B/E](#) Apstar-6D  
Launch site: [Xichang](#), China

?? [CZ-4B](#) ZY-2D Ziyuan-2D  
Launch site: [Taiyuan](#), China

?? [PSLV](#) RISAT\_1A  
?? [PSLV](#) IRNSS-1J  
?? [PSLV](#) RISAT-2BR2  
?? [GSLV](#) GISAT -2

10 + 8  
51 + 93

## 2020.

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

?? - inaugural flight - Vega-C - Kourou ZLV  
?? [Falcon 9](#) SAOCOM-1B, SAOCOM-1C  
?? [Ariane 5](#) ECA GSAT-20

## 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  
Feb?? [GSLV](#) GSAT - 32  
Feb?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x32)

?? [Soyuz-2](#) 1A [Bars-M](#) 3  
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia 120

?? [Vega](#) SSMS – 2 (Small Spacecraft Mission Service)  
?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x32)  
?? [Ariane 5](#) ECA Eutelsat Quantum  
?? [Ariane 5](#) ECA GSAT 30  
?? [Falcon 9](#) GPS IIIA-4

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))

?? [Ariane 5](#) Galaxy 30 / MEV-2  
?? [Ariane 5](#) ECA GEO-KOMPSAT-2B , Cheollian 2B  
?? [Soyuz-2](#)-1B/[Fregat](#)-M Glonass M 59  
?? [Soyuz-2](#)-1B/[Fregat](#)-M Glonass M 60

## Apr15. [Soyuz 2-1A](#) [Soyuz MS 16 \(S62/63\)](#)



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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  
 Apr?? [CZ-5](#) B Test flight

?? [Vega](#) CCERES (x3)

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

May?? [Soyuz-2](#) 1B Progress M-UM  
 May?? Ariane 62 CSO-2

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

?? [Vega](#) Seosat (Ingenio)

**July16** **Ariane 62** **OneWeb**

**July17.** [Atlas 5](#) (541) [Mars 2020 rover](#)

**July23.** [CZ-5](#) Y4 [Mars probe](#) (orbiter + lander + rover)

**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?? [Soyuz-2](#)-1B/[Fregat](#)-M Glonass K2 / 14  
 July?? [Soyuz-2](#)-1B / [Fregat](#) 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 **80**  
 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  
 Sep?? ?? GOES-T (National Security Space Launch program)

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

**Oct21.** **Soyuz 2-1A** [Soyuz MS 17 \(S63/64\)](#)  
 CDR: **Иванишин (Ivanishin)**, **Вагнер (Vagner)**, Christopher J. **Cassidy**

Oct?? Vega Proba 3  
 Oct?? [Soyuz-2](#) 1B /[Fregat](#)-M [Gonets](#) x 3 (No 27,28,29)





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|  |  |                                       |   |
|--|--|---------------------------------------|---|
| Oct??  | <a href="#">Proton-M</a>                               | MLM                                   |   |
| Oct??  | CZ-5B Y1   | New generation manned spacecraft      |   |
| ??   | <a href="#">Falcon 9</a>                               | SARah 1                               |   |
| ??   | <a href="#">Angara</a> A5/ DM 03(Persei)               | Kosmos                                |   |
| Nov??  | <a href="#">Atlas 5</a> 402                            | CST 100 Starliner (USCV-2)            |   |
| Cdr: John <b>Cassada</b> , Sunita <b>Williams</b> ,  |  |                                       |   |
| Nov??  | <a href="#">Soyuz-2</a>                                | <a href="#">Progress MS</a> 15        |   |
| Nov??  | <a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M | Resurs N°4                            |   |
| ??   | SLS-1  | Orion (unmanned trip around the Moon) | Exploration Mission 1 (Distant Retrograde Orbit (DRO) Tactical DRM) |
| <b>Dec04.</b>  | <b><a href="#">CZ-5</a> Y5</b>                         | <b>Chang'e-5 (Sample return)</b>      |   |
| <b>Dec15.</b>  | <b><a href="#">Atlas 5</a></b>                         | <b>Landsat 9</b>                      |   |
| 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??  | <a href="#">Soyuz-2</a>                                | <a href="#">Progress MS</a> 17        |   |
| ??   | ??   | PACE                                  | 60  |
| ??   | ??   | EX-4                                  |   |
| ??   | ??   | ACE                                   |   |
| ??   | ??   | HyspIRI                               |   |
| ??   | Antares  | IMAP/STP-05                           |   |
| ??   | <a href="#">Falcon 9</a> FT                            | <a href="#">Dragon</a> SpX-22         |   |
| ??   | <a href="#">Falcon H</a>                               | ViaSat 3                              |   |
| ??   | <a href="#">Falcon 9</a>                               | KPLO (Korea Pathfinder Lunar Orbiter) |   |
| ??   | <a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M | Glonass K1 / 16                       |   |
| ??   | <a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M | Glonass K1 / 17                       |   |
| ??   | <a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M | Meteor M No2-3                        |   |
| ??   | <a href="#">Angara</a> 1.2                             | Kompsat-6                             |   |
| ??   | <a href="#">Soyuz-2</a> -1A/ <a href="#">Fregat</a> -M | <a href="#">Gonets</a> x 6            |   |
| ??   | <a href="#">Proton-M/Briz-M</a>                        | AOneSat-1                             |   |
| ??   | <a href="#">Proton-M/Briz-M</a>                        | Terrestar-2                           |   |
| ??   | <a href="#">Proton-M/Briz-M</a>                        | SkyTerra 2                            |   |
| ??   | <a href="#">Proton-M/Briz-M</a>                        | Ekspress AMU 3 / Ekspress AMU 7       |   |
| ??   | <a href="#">Proton-M/Briz-M</a>                        | Yenisey A1                            |   |
| ??   | <a href="#">Proton-M/Briz-M</a>                        | Ямал-501                              |   |
| ??   | <a href="#">Proton-M/Briz-M</a>                        | EutelSat                              |   |
| ??   | <a href="#">Proton-M/Briz-M</a>                        | Ямал-GK-1                             | 40  |
| ??   | <a href="#">Proton-M</a>                               | PTK NP                                |   |
| ??   | <a href="#">Soyuz-2</a> -1A/ <a href="#">Fregat</a>    | Resonance 1A, Resonance 1B            |   |
| RESONANCE is a project to study Earth's magnetosphere consisting of four similar satellites.   |  |                                       |   |



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|  |   |   |    |
|--|---|---|----|
| ??   | <a href="#">Soyuz-2-1B</a>                      | Lotos S1  |    |
| ??   | <a href="#">Soyuz-2-1B</a>                      | Persona   |    |
| ??   | <a href="#">Soyuz-2-1A</a>                      | Kobalt M  |    |
| ??   | <a href="#">Soyuz-2-1A</a>                      | Foton M   |    |
| ??   | <a href="#">Soyuz-2-1B/Fregat-M</a>             | Kondor-FKA n.º 1  |    |
| ??   | <a href="#">Soyuz-2-1B</a>                      | Obzor R -1  |    |
| ??   | ??  | Zond  |    |
| ??   | ??  | MKA PN6 (Monika)  |    |
| ??   | ??  | Картограф-ОЭ №1   |    |
| ??   | <a href="#">Angara 1.2</a>                      | Kosmos  |    |
| ??   | <a href="#">Zenit 3 SL /Fregat-SB</a>           | Lybid'  |    |
| Launch site: Байконур ( <a href="#">Baikonur</a> ) Cosmodrome, Kazakhstan    |   |   |    |
| ??   | <a href="#">Ariane 5</a>                        | Arsat 3   |    |
| ??   | <a href="#">Ariane 5</a>                        | ViaSat-3 Asia   |    |
| ??   | <a href="#">Ariane 5</a> ECA                    | EDRS-D  |    |
| ??   | <a href="#">Ariane 5</a> ECA                    | Star One D2   |    |
| ??   | ??  | Seosat-Ingenio-2  |    |
| ??   | <a href="#">Vega C</a> Cosmo-SkyMed Secon Gen 2 | CSG-2   |    |
| ??   | CZ  | Two Meter Space Telescope                                       |    |
| ??   | CZ  | FY-4C Fengyun-4C  | 20 |
| ??   | CZ  | HY-3B Haiyang-3B  |    |
| ??   | <a href="#">CZ-3B/</a> 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   |    |
| ??   | <a href="#">CZ-2D</a>                           | SJ-19 Shijan-19   |    |
| ??   | <a href="#">GSLV</a> MK II F11                  | GSAT-10A  |    |
| Launch site: <a href="#">Satish Dhawan Space Centre</a> , Sriharikota, India |   |   |    |
| ??   | <a href="#">PSLV</a>                            | ScatSat, NovaSAR  |    |
| ??   | <a href="#">GSLV</a> MK III                     | MOM-2 Follow on Mars Mission                                    |    |
| ??   | <a href="#">PSLV</a>                            | EnMap   |    |
| ??   | <a href="#">PSLV</a> XL                         | <a href="#">Aditya'</a>   |    |
| ??   | H-IIA   | <a href="#">Hope</a> (UAE mission to Mars)                      |    |
| ??   | H-IIA   | Astro H2 (Hitomi-2), SLIM (Smart Lander for Investigating Moon) |    |
| ??   | H-IIA   | Inmarsat-6 F1   |    |



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?? [Safir 1 B](#) Tadbir  
 ?? [Safir 3A](#) Pars sepher

130

## 2021.

Feb?? [Soyuz-2](#) [Progress MS](#) 18  
 Feb?? [Falcon 9](#) GPS IIIA-6  
 Feb?? [Falcon H](#) AFSPC-44

**Mar30.** [Soyuz-2-1A](#) [Soyuz MS 18](#)  
 Cdr: **Borisenko, Chub, Bowen**

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

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

Apr?? Ariane 62 Galileo-FOC FM23, Galileo-FOC FM24  
 Apr?? [Falcon 9](#) IXPE (Imaging X-ray Polarimetry Explorer)

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

?? [CZ-5B](#) Y2 Tian He Space Station Core 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.

June?? [Falcon 9](#) DART (Double Asteroid Redirection Test)

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

?? [Soyuz-2](#) [Progress MS](#) 19  
 ?? 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

**Sep30.** [Soyuz-2-1A](#) [Soyuz MS 18](#)

Sep?? [Soyuz ST](#) B/[Fregat](#)-MT MetOp-SG A1/EP-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





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|              |                                      |                                       |
|--------------|--------------------------------------|---------------------------------------|
| Nov??        | <a href="#">Atlas 5</a> 402          | USCV-4 (US Commercial Vehicles)       |
| Dec??        | <a href="#">Vega C</a> KOMPSAT 7     |                                       |
| Dec??        | GSLV-Mk III.                         | Gaganyaan-3                           |
| Dec??        | <a href="#">Falcon 9</a>             | NROL-85 Intruder 13A713B              |
| Dec??        | <a href="#">Falcon 9</a>             | NROL-87                               |
| ??           | <a href="#">Ariane 5</a>             | MTG-I1                                |
| ??           | <a href="#">Atlas 5</a> 552          | Dream Chaser Cargo System SNC-2       |
| ??           | <a href="#">Falcon 9</a>             | GPS IIIA-7                            |
| ??           | <a href="#">Falcon 9</a>             | GPS IIIA-8                            |
| ??           | <a href="#">Soyuz-2</a>              | <a href="#">Progress MS</a> 20        |
| ??           | <a href="#">Soyuz-2-1B/Fregat-M</a>  | Transformable Modul TM                |
| ??           | <a href="#">Proton-M</a>             | H3M-1                                 |
| ??           | <a href="#">Soyuz-2-1B/Fregat-M</a>  | Meteor M No2-4                        |
| ??           | <a href="#">Angara 1.2</a>           | <a href="#">Gonets</a> x 3            |
| ??           | <a href="#">Proton-M/Briz-M</a>      | Ekspress-RV1, Ekspress-RV2            |
| ??           | <a href="#">Proton-M/Briz-M</a>      | Ekspress AMU 4                        |
| ??           | <a href="#">Soyuz-2-1B/Fregat-M</a>  | Smotr R №1                            |
| ??           | <a href="#">Proton-M/Briz-M</a>      | IntelSat                              |
| ??           | <a href="#">Proton-M/Briz-M</a>      | Elektro L - 4                         |
| ??           | <a href="#">Soyuz-2-1B/Fregat-M</a>  | Arktika M 2                           |
| ??           | <a href="#">Proton-M/DM-03</a>       | <a href="#">Glonass-M/K21,K22,K23</a> |
| ??           | <a href="#">Soyuz-2-1B/Fregat-M</a>  | Kondor-FKA n.º 2                      |
| ??           | <a href="#">Soyuz-2 1B /Fregat-M</a> | Resurs №5                             |
| ??           | <a href="#">Angara A5/ Briz-M</a>    | Luch 5M                               |
| ??           | <a href="#">Ariane 5</a>             | Heinrich Hertz                        |
| ??           | <a href="#">Ariane 5</a>             | SES-17                                |
| ??           | <a href="#">Ariane 5</a>             | Comsat NG 1 (Syracuse 4A)             |
| ??           | <a href="#">Soyuz ST B/Fregat-MT</a> | CSO 2 (Composante Spatiale Optique-2) |
| ??           | <a href="#">Soyuz ST B/Fregat-MT</a> | OneWeb smalsat (x32)                  |
| ??           | <a href="#">Soyuz ST B/Fregat-MT</a> | OneWeb smalsat (x32)                  |
| ??           | <a href="#">Vega C</a>               | Space Rider 2                         |
| ??           | <a href="#">Vega C</a>               | CNES/UAE Mars mission                 |
| ??           | <a href="#">Vega-C</a>               | Pleiades Neo 3, Pleiades Neo 4        |
| ??           | <a href="#">CZ-3B/G2</a>             | TCSTAR 1                              |
| ??           | CZ                                   | Venus Global Sensing Probe            |
| ??           | CZ                                   | FY-3G Fengyun-3G (Batch 2)            |
| ??           | ??                                   | Sansha-1 (1)                          |
| ??           | ??                                   | Sansha-1 (2)                          |
| <b>2022.</b> |                                      |                                       |
| Jan??        | ??                                   | Solar Sentinels                       |



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?? [Soyuz-2](#) [Progress MS 21](#)

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

**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 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 (JUperiter ICy moon Explorer)**

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

**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  
 Aug?? [Atlas 5](#) 411 SBIRS-GEO 6

**Sep30.** [Soyuz-2-1A](#) [Soyuz MS 20](#)

Nov?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-6 (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](#)

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



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|    |                                     |  |
|----|-------------------------------------|--|
| ?? | <a href="#">Proton-M/Briz-M</a>     | Eutelsat                                 |
| ?? | <a href="#">Proton-M/Briz-M</a>     | Intelsat                                 |
| ?? | <a href="#">Soyuz-2-1B/Fregat-M</a> | Smotr R №2                               |
| ?? | <a href="#">Soyuz-2-</a>            | Razdan 2                                 |
| ?? | <a href="#">Proton-M/Briz-M</a>     | Elektro L - 5                            |
| ?? | <a href="#">Soyuz-2-1B/Fregat-M</a> | Resurs PM - 1                            |
| ?? | <a href="#">Angara A5/ Briz-M</a>   | Luch 5M                                  |
| ?? | <a href="#">Ariane 5</a>            | Moon's south pole samples return mission |
| ?? | <a href="#">Ariane 5</a>            | Comsat NG 2 (Syracuse 4B)                |
| ?? | <a href="#">Vega C</a>              | Space Rider 3                            |
| ?? | <a href="#">Vega C</a>              | CryoSat FO                               |
| ?? | CZ                                  | HY-3C Haiyang-3C                         |

## 2023.

?? [Soyuz-2](#) [Progress MS 22](#)

**Mar30.** [Soyuz-2-1A](#) [Soyuz MS 21](#)

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

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

?? [Soyuz-2](#) [Progress MS 23](#)  
 ?? [Ariane 5](#) MTG-S2/Sentinel-4A

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

Nov?? [Atlas 5 402 / Falcon 9](#) USCVC-8 (US Commercial Vehicles)

?? [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.

|    |                                     |                            |
|----|-------------------------------------|----------------------------|
| ?? | <a href="#">Proton-M/Briz-M</a>     | Ekspress – AT3, AT4        |
| ?? | <a href="#">Soyuz-2-1B/Fregat-M</a> | Resurs PM - 3              |
| ?? | <a href="#">Angara 1.2</a>          | <a href="#">Gonets</a> x 3 |
| ?? | <a href="#">Soyuz-2-1B</a>          | Obzor R - 2                |
| ?? | <a href="#">Soyuz-2-1B</a>          | Obzor O - 1                |
| ?? | <a href="#">Soyuz-2-1B/Fregat-M</a> | Ellips - 1                 |
| ?? | <a href="#">Angara A5P/DM03</a>     | Dopler 1, 2                |
| ?? | <a href="#">Soyuz-2-1B/Fregat-M</a> | Meteor M No2-5             |
| ?? | <a href="#">Soyuz-2-1B/Fregat-M</a> | Arktika M 3                |
| ?? | <a href="#">Soyuz-2-1B/Fregat-M</a> | Resurs PM - 2              |



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|               |  |   |   |
|---------------|--|---|---|
| ??            | <a href="#">Vega</a>                                   | C Space Rider 4                                 |   |
| ??            | <a href="#">Soyuz ST</a>                               | B/ <a href="#">Fregat</a> -MT                   | Sentinel-1C   |
| ??            | CZ   | SPORT (Solar Polar Orbit Radio Telescope)       |   |
| ??            | CZ   | FY-4D Fengyun-4D                                |   |
| ??            | CZ   | Chang'e-7 (Moon south pole landing)             |   |
| ??            | <a href="#">GSLV</a>                                   | MK III  | Mission to Venus  |
| ??            | <a href="#">Angara</a>                                 | A5P/DM03  | Lutch 5 – 2   |
| ??            | <a href="#">Soyuz-2</a>                                | -1b   | Bion-M No. 2  |
| ??            | <a href="#">Angara</a>                                 | A5P/DM03  | Lutch 5 – 3   |
| ??            | ??   | ??  | Ямал GK 2   |
| ??            | <a href="#">Soyuz-2</a>                                | 1a / <a href="#">Fregat</a>                     | <a href="#">Luna 26</a> (Luna-Resurs OA)  |
| <b>2024</b>   |  |   |   |
| <b>Mar30.</b> | <a href="#">Soyuz-2-1A</a>                             |   | <a href="#">Soyuz MS 23</a>   |
| May??         | <a href="#">Atlas 5</a>                                | 402 / <a href="#">Falcon 9</a>                  | USCV-9 (US Commercial Vehicles)   |
| ??            | CZ7  | TZ 6 Tianzhou 6 (Logistic Cargo Vehicle)        |   |
| <b>Sep30.</b> | <a href="#">Soyuz-2-1A</a>                             |   | <a href="#">Soyuz MS 24</a>   |
| Oct??         | EELV   | GOES-U  |   |
| Nov??         | <a href="#">Atlas 5</a>                                | 402 / <a href="#">Falcon 9</a>                  | USCV-10 (US Commercial Vehicles)  |
| ??            | SLS Block IA II  | Orion: Exploration Mission 4 (Crew to Cislunar) |   |
| ??            | Sunkar   | Federatsia (Light 14t – 2 man to ISS)           |   |
| ??            | <a href="#">Soyuz-2</a>                                |   | <a href="#">Progress MS 25</a>  |
| ??            | <a href="#">Soyuz-2</a>                                |   | <a href="#">Progress MS 26</a>  |
| ??            | <a href="#">Soyuz-2</a>                                |   | <a href="#">Progress MS 27</a>  |
| ??            | <a href="#">Soyuz-2</a>                                | 1b  | <a href="#">Luna 27</a> (Luna-Resurs PA) Testing an adaptive landing mode with a radio-beacon; delivering a rover |
| ??            | <a href="#">Proton-M</a>                               | / DM-03   | Spektr - UF   |
| ??            | <a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a> -M |   | Resurs PM - 4   |
| ??            | <a href="#">Angara</a>                                 | 1.2   | <a href="#">Gonets</a> x 2, Gonets M  |
| ??            | <a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a> -M |   | Arktika M 4   |
| ??            | ??   | ??  | Ямал GK VEO 1   |
| ??            | <a href="#">Soyuz-2-1A</a>                             |   | Obzor P -1  |
| ??            | <a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a> -M |   | Razdan - 3  |
| ??            | <a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a> -M |   | Meteor M No2-6  |
| ??            | ??   |   | DYNAMIC/STP-06  |
| ??            | CZ   |   | Asteroid (Ceres) Sample Return Mission  |
| ??            | <a href="#">CZ-5</a>                                   |   | Chang'e-6 Moon polar area sample return   |



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?? Lapan Pengorbitan-1 (RPS-01) (Indonesia)

## 2025

May?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-11 (US Commercial Vehicles)

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

?? 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.

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

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

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](#) A5/DM03 Bumerang (FobosGrunt 2)

## 2069.

?? ?? [Interstellar mission](#)