



Blog Gorana Hudeca

Predstojeća lansiranja u Svemir (22.10.2018.)

2018.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in red. Last change 22.Oct.2018.

- Oct25.** [Soyuz-2-1B/Fregat-M](#) [Lotos S1](#)
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia
- Oct26.** **0700UTC** **Pegasus-XL** **ICON ([Helio EX-1](#))**
Launch site: [Cape Canaveral](#), USA
- Oct26.** **CZ-4B** **HY-2B [Haiyang-2B](#)**
Launch site: [Taiyuan](#), China
- Oct27.** [Zhuque-1 \(ZQ-1\)](#) [CCTV Weilai-1 \(Future 1\)](#)
Launch site: [Jiuquan](#), China
- Oct29.** **0408UTC** [H-2A \(F40\)](#) [GOSAT-2](#)
Launch site: [Tanegashima](#), Japan
- Oct29.** [CZ-2C](#) [CFOSAT \(China-France Oceanography SATellite\)](#)
Launch site: [Jiuquan](#), China
- Nov01.** [CZ-3B/YZ-1](#) [Beidou 3 G8](#)
Launch site: [Xichang](#), China
- Nov03.** [Soyuz-2-1B/Fregat-M](#) [Glonass-M 57](#)
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia
- Nov07.** **0048UTC** [Soyuz ST B/Fregat-M VS19](#) **MetOp-C**
Launch site: [Kourou](#), French Guiana
- Nov14.** [Falcon 9](#) **Es'hail 2**
- Nov15.** **0949UTC** [Antares 230](#) [Cygnus Orb-10E](#)
- Nov17.** **LauncherOne** **Test Launch**
- Nov18.** [Soyuz-2 1A](#) [Progress MS 10](#)
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan
- Nov19.** [Falcon 9](#) **Spaceflight SSO-A**
Launch site: [Vandenberg](#), USA
- Nov20.** [Vega \(VV13\)](#) **MN35-13 B [Morocco EO Sat 1 2](#)**
Launch site: [Kourou](#), French Guiana
- Nov22.** [PSLV](#) **C43** **HySIS**
- Nov25.** [KZ-1A](#) **Jilin 1-09**
Launch site: [Jiuquan](#), China
- Nov27.** **1119UTC** [Falcon 9 FT](#) [Dragon SpX-16](#) 40



Blog Gorana Hudeca

- Nov29.** [Delta 4-H](#) **NROL-71 KH11 17 (Cristal 17)**
Launch site: [Vandenberg](#), USA
- Nov?? [Electron](#) Outernet 1, Lemur
Launch site: [Kaitorete Spit](#), New Zeland
- Nov?? [CZ-3B/YZ-1](#) [Beidou 3](#) MEO M17, [Beidou 3](#) MEO M18
Launch site: [Xichang](#), China
- Nov?? [CZ-2D](#) Jiading-1
Nov?? [GSLV](#) MK III D2 GSAT-29
Nov?? [CZ-11](#) Lingque 1,2
Nov?? [CZ-2D](#) [SaudiSAT 5A](#) ,SaudiSAT 5B
- Dec03.** [Soyuz-2 1A](#) [Soyuz MS 11 \(S58/59\)](#)
CDR: Олэг Дмíтриевич Кононѐнко (Oleg Dmitrievich Kononenko), Anne McClain (NASA), David Saint-Jaques
- Dec04.** [Ariane 5](#) VA246 **GSAT-11 / GEO-KOMPSAT-2A (GK2A, Cheollian 2A)** Launch site: [Kourou](#), French Guiana
- Dec08.** [CZ-3B/GIII](#) **Chang'e-4 (Moon far side Aitken Basin lander/rover)**
- Dec15. 0408UTC** [Falcon 9](#) **GPS III-1**
- Dec15.** [CZ-4B](#) **ZY-2D Ziyuan-2D**
- Dec18.** [Soyuz ST B/Fregat-MT \(VS20\)](#) **CSO 1 (Composante Spatiale Optique-1)**
Launch site: [Kourou](#), French Guiana
- Dec23. 1208UTC** [Soyuz-2 1B /Fregat-M](#) **Neutron (Kosmos)**
- Dec25.** [Soyuz-2 1A / Fregat Kanopus V 5, Kanopus V 6](#)
- Dec27.** [Soyuz-2-1B](#) **EgyptSat A**
- Dec29.** **CZ-4C** ??
- Dec30. 0038UTC** [Falcon 9](#) [Iridium Next Flight 8 \(x10\)](#)
Launch site: [Vandenberg](#), USA
- Dec?? [Electron](#) ELaNa XIX
Launch site: [Kaitorete Spit](#), New Zeland
- Dec?? [PSLV](#) C44 EMIsat **20**
Dec?? [CZ-2D](#) GF-7 Gaofen-7
Dec?? [CZ-11](#) CAS-6
Dec?? [Proton-M/Briz-M](#) Blagovest 13
- ?? **Minotaur-4** FORMOSAT-7 (6 sat)
- ?? **CZ-??** CAS-5A, CAS-5B
Launch site: [Jiuquan](#), China



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?? ?? Taurus-1
Launch site: [Taiyuan](#), China

??	CZ??	Tianzhi-1
??	CZ-11	LOVEcho
??	CZ-11	Fengtai Shaonian-02
??	CZ-2D	NuSat 6, 7, 8

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

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

??	CZ-3C	Tianlian-2 TL-2
??	CZ-2D	Jilin-2 JL-2
??	CZ-2D	Jilin-3 JL-3
??	CZ	Huaizong-1

?? [Simorgh](#) [Dosti](#)
Launch site: [Semnan](#), Iran

17 + 5
80 + 57

2019.

Jan23. [Delta IV-M \(5,4\)](#) **WGS 10**

Jan30. [GSLV Mk II D9](#) **Chandrayaan 2**
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

Jan??	CZ-5 Y3	SJ-18 02 (DFH-5 platform)	
Jan??	PSLV C45	RISAT-2B	
Jan??	Falcon H	Arabsat 6A	
Jan??	Falcon 9 (SPx-DM1)	Dragon v2 unmanned test	160

?? [Epsilon](#) (4) Inovative Technology Demonstration Satellite – 1, OrigamiSat-1
Launch site: [Tanegashima](#), Japan

??	Soyuz ST B/Fregat-MT	CHEOPS (Characterising ExOPlanet Satellite)
??	CZ-11	Zhuhai-1 Group-3
??	Ariane 5 ECA	Hellas-Sat-4
??	Ariane 5 ECA	GSAT 31

Feb07. [Soyuz ST B/Fregat-MT](#) **OneWeb smalsat (x10)**

Feb08. 0920UTC [Soyuz-2](#) [Progress MS 11](#)

Feb17. [Falcon 9](#) [Dragon SpX-17](#)

Feb18. [Falcon 9](#) **Radarsat C-1, -2, C-3**
Launch site: [Vandenberg](#), USA



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Feb?? [Vega](#) (VV14) [Prisma](#)
Launch site: [Kourou](#), French Guiana

Feb?? [CZ-3C](#) [Beidou 3 I1Q](#)
Feb?? [PSLV](#) C46 [Cartosat 3](#)

?? [Soyuz-2-1B](#) Arktika M 1
Launch site: Восточный ([Vostochniy](#)) Cosmodrome, Russia

?? [Vega](#) SSMS POC (Small Spacecraft Mission Service Proof Of Concept)
?? [CZ-3B/E](#) Apstar-6D
?? [Ariane 5](#) ECA Eutelsat 7C
?? [Electron](#) Outernet 2,3
?? [GSLV](#) MK II F12 GSAT-7A
?? [Soyuz-2-1B/Fregat](#) M Meridian 18L
?? [Falcon 9](#) PSN VI 140

Mar?? [Proton-M/Briz-M](#) EutelSat 5 West B / MEV
Mar?? [PSLV](#) C47 RISAT-2BR1
Mar?? [Falcon Heavy](#) STP-02
Mar?? 1900UTC [Atlas 5](#) N22 (AV80) CST-100 Starliner (unmanned test)
Mar?? [Proton-M/Briz-M](#) Ямал-601

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

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

?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x32)
?? [Soyuz-2-1B/Fregat](#) Glonass K2 / 13
?? [CZ-3C](#) [Beidou 3](#) G1Q
?? [CZ-3B/YZ-1](#) [Beidou 3](#) MEO M17, [Beidou 3](#) MEO M18
?? [CZ-3B/YZ-1](#) ZX-6C Zhongxing-6C

Apr04. [Delta IV](#) **GPS IIIA-2**

Apr05. [Soyuz-2 1A](#) [Soyuz MS 12 \(S59/60\)](#)
CDR: Олѐг Ива́нович **Скри́почка**, (Oleg Ivanovich **Skripotscka**), Christina **Hammock Koch**, Hazza Al **Mansouri**/Sultan Al **Nayadi**

Apr11. [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.

Apr17. [Antares 230](#) [Cygnus OA-11](#)

Apr?? [Soyuz-2-1B/Fregat](#)-M Meteor M-2-2, Ionosfera 3, Ionosfera 4
Launch site: Восточный ([Vostochniy](#)) Cosmodrome, Russia

Apr?? ?? GOES-T
Apr?? [CZ-3B/E](#) Nicasat 1
Apr?? [CZ-3C](#) [Beidou 3](#) I2Q 120

May07. [Falcon 9](#) [Dragon SpX-18](#)



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May?? CZ CBERS-4A
 May?? [Ariane 5](#) ECA EDRS-C (Hylas 3)

June05. [Soyuz-2](#) [Progress MS 12](#)

June?? [Falcon 9](#) (SPx-DM2) Dragon v2
CDR: Robert **Benkhen**, Doug **Hurley**

June?? [CZ-5 B](#) Test flight
 June?? [Falcon 9](#) SAOCAM-1B, SAOCAM-1C

?? [CZ-3B/G2](#) TECSTAR 1
 ?? SSLV ??
 ?? [Soyuz ST](#) B/[Fregat](#)-MT [O3b](#) (FM17-20)
 ?? [GSLV](#) MK II F10 GISAT
 ?? [Ariane 5](#) Inmarsat-5 F5
 ?? [Soyuz ST](#) B/[Fregat](#)-MT Cosmo-SkyMed Secon Gen 1 CSG-1
 ?? [Ariane 5](#) ECA Intelsat 39
 ?? [Soyuz-2-1B/](#) [Fregat](#)-M Glonass K 15
 ?? Minotaur 1 NROL 111

July23. [Soyuz FG](#) [Soyuz MS 13 \(S60/61\)](#)

CDR: Александр Александрович **Скворцов** (Alexander **Skvortsov**), Luca **Parmitano** (ESA), Andrew **Morgan** (NASA)

July?? [CZ-3C](#) [Beidou 3](#) I3Q
 July?? H-2B (F9) HTV8
 July?? [Atlas 5](#) 551 STP-03 100
 July?? [Atlas 5](#) AEHF 5

Aug?? [Atlas 5](#) 422 (AV082) CST-100 Starliner
CDR: Eric **Boe**, Chris **Ferguson**, Nicole Aunapu **Mann**

Aug?? [Zenit 3 SL](#) /[Fregat](#)-SB Lybid'
 Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

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

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

Sep04. [Soyuz-2 1A](#) [Soyuz 14 GVK](#)

Sep?? [Atlas 5](#) 552 Dream Chaser Cargo System SNC-1

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

Late - inaugural flight - Vega-C - Kourou ZLV

Oct08. [Soyuz-2-1A](#) [Soyuz MS 15 \(S61/62\)](#)

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

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

Oct?? [CZ-3B/YZ-1](#) [Beidou 3](#) MEO M19, [Beidou 3](#) MEO M20



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Oct??	Soyuz-2 1B / Fregat -M	Gonets x 3 (No 27,28,29)	
Oct??	Soyuz-2 1B / Fregat -M	Resurs №5	
Oct??	Falcon 9 FT	Dragon SpX-19	
Oct??	Falcon 9	GPS IIIA-3	
??	Ariane 5	JCSat 17	
??	Ariane 5 ECA	GEO-KOMPSAT-2B , Cheollian 2B	
??	Ariane 5 ECA	Eutelsat Quantum	
Nov08.	Proton-M	MLM	80
??	Soyuz-2 -1B/ Fregat -M	Glonass K2 / 14	
??	Proton-M / Briz-M	Blagovest 14	
??	Falcon 9	GPS IIIA-4	
??	Vega	Seosat (Ingenio)	
??	Vega - C	??	
Dec04.	Soyuz-2	Progress MS 13	
Dec??	CZ-3B /YZ-1	Beidou 3 MEO M21, Beidou 3 MEO M22	
Dec??	Proton-M / Briz-M	Ekspress 80, Ekspress 103	
Dec??	Soyuz-2 1B / Fregat -M	CAS500-1	
??	Atlas 5 551	AFSPC-7 (X-37B OTV 6)	
??	Falcon 9	Astrium active 3x SARah satellite	
??	Atlas 5 551	Asteroid Retrieval Spacecraft (ARS)	
??	??	EX-3	
??	Falcon 9	GiSat-1	
??	Falcon 9	OHB SARah satellite (x2)	
??	Ariane 5 ECA	Eutelsat BB4A (African Broadband Satellite)	
??	Ariane 5 ECA	Star One D2	
??	Ariane 5	GSAT-30	
??	Vega	OpSis	
??	Vega	Falcon Eye 1	60
??	Vega	Falcon Eye 2	
??	Proton-M / Briz-M	SkyTerra 2	
??	Proton-M / Briz-M	Yenisey A1	
??	Soyuz-2 1B / Fregat -M	Glonass-M 61	
??	Proton-M / DM-03	Glonass-M /	56,57,58
??	Soyuz-2 1B / Fregat -M	Glonass K1 / 17	
??	Soyuz-2 1B / Fregat -M	Glonass K1 / 16	
??	Proton-M / DM-03	Glonass K	
??	Proton-M / Briz-M	Ямал-501	
??	Proton-M / Briz-M	EutelSat	
??	Proton-M / Briz-M	IntelSat	
??	Soyuz-2 -1B/ Fregat M	Meridian 19L	
??	Soyuz-2 -	Razdan 1	
??	Angara 1.2	Kosmos	
??	Angara A5/ Briz-M	Kosmos (Repei)	



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??	Proton-M/Briz-M	Kosmos	
??	Proton-M/Briz-M	Ямал-GK-1	
??	Proton-M/Briz-M	Anik G2V	
??	Proton-M	PTK NP	
??	Soyuz-2-1B	Obzor R -1	40
??	Soyuz-2 1A	Energiya-100	
??	Soyuz-2-1B	Pion	
??	Soyuz-2-1B/ Fregat-M	Glonass K2	
??	Soyuz-2-1B/Fregat	Glonass K2	
??	Proton-M/ DM-03	Glonass-M	
??	Soyuz-2-1B	Arktika	
??	Soyuz-2 1B /Fregat-M	Resurs №4	
??	Soyuz-2-1B/Fregat-M	Kondor-FKA n.º 1	
??	Soyuz-2 1B /Fregat-M	Tundra 3	
??	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	
??	CZ	FY-3F Fengyun-3F (Batch 2)	
??	CZ	FY-3 Fengyun-3 RM-2	
??	CZ-4B	HY-2D Haiyang-2D	
??	CZ-2C	HY-1D Haiyang-1D	
??	CZ	Sun Fixed-Point Observation	
??	CZ-4B	HY-2C Haiyang-2C	
??	CZ	CBERS-SAR 1	20
??	??	Hainan-1 (1)	
??	??	Hainan-1 (2)	
??	??	Hainan-1 (3)	
??	CZ-2D	SJ-12 Shijian-12 (2)	
??	CZ-2D	TH-2 Tianhui-2	
??	CZ-2C	CSES-1 Earthquake electromagnetism monitor satellite	
??	??	VeneSat-2	
??	CZ-3B/E	CC-1 Changcheng-1	
??	CZ	Deep Space Solar Observatory	
??	CZ-2	CAS-2A1, CAS-2A2	
??	CZ-3B/E	CongoSat 1	
??	CZ	FY-3E Fengyun-3E	
??	CZ	FY-4B Fengyun-4B	
??	CZ-??	CAS-4A, CAS-4B	
Launch site: Taiyuan , China			



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?? CZ Orbita-1 1
 ?? [GSLV](#) MK II F11 GSAT-10A
 Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India
 ?? [PSLV](#) ScatSat, NovaSAR
 ?? [Safir 1 B](#) Tadbir
 ?? Safir 3A Pars sepher

165

2020.

Jan?? [Falcon 9](#) [Dragon](#) SpX-20
Feb05. [Atlas 5](#) [Solar Orbiter \(SolO\) \(ESA\)](#)
 Feb?? [Atlas 5](#) 402 CST 100 Starliner (USCV-2)
 Cdr: John **Cassada**, Sunita **Williams**
 Feb?? H-2B (F10) HTV9
 ?? [Vega](#) SSMS – 2 (Small Spacecraft Mission Service)
 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
 ?? [Ariane 5](#) Galaxy 30 / MEV-2
Apr15. **Soyuz 2-1A** [Soyuz MS 16 \(S62/63\)](#)
 CDR: **Рыжиков** (Sergei Ryshikov), Thomas **Marshburn** (NASA), Soichi **Noguchi** (JAXA)
 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
 ?? [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 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)



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July16	Ariane 62	Galileo-FOC FM23, Galileo-FOC FM24
July17.	Atlas 5 (541)	Mars 2020 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??	CZ-3C	Beidou 3 G2Q
July??	CZ-5	Mars probe (orbiter + lander + rover)
??	Vega-C Pleiades Neo 1, Pleiades Neo 2	
??	Ariane 5	ViaSat 3 EMEA
Aug??	Falcon 9	USCV-3 (US Commercial Vehicles)
CDR: ??(NASA), ??(NASA), ??(RF)		
Aug??	Falcon 9 FT	Dragon SpX-21
Aug??	Soyuz-2	Progress MS 14
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
Oct21.	Soyuz 2-1A	Soyuz MS 17 (S63/64)
CDR: Иванишин (Ivanishin), Вагнер (Vagner), Bowen		
Oct??	Vega	Proba 3
Nov??	Soyuz-2	Progress MS 15
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).
??	??	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	НЭМ-1
??	Soyuz-2-1B/ Fregat-M	Glonass M 55
??	Soyuz-2-1B/Fregat-M	Glonass-M/ 53



Blog Gorana Hudeca

??	Soyuz-2-1B/Fregat	Glonass M/ 58
??	Soyuz-2-1B/Fregat	Glonass M / 59
??	Proton-M/ DM-03	Glonass-M/K18,K19,K20
??	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
??	Proton-M/Briz-M	Ekspress AMU 3 / Ekspress AMU 7
??	Soyuz-2-1A/Fregat	Resonance 1A, Resonance 1B
RESONANCE is a project to study Earth's magnetosphere consisting of four similar satellites.		
??	Soyuz-2-1B	Lotos S1
??	Soyuz-2-1B	Persona
??	Soyuz-2-1A	Kobalt M
??	Soyuz-2-1A	Foton M
??	??	Zond
??	??	MKA PN6 (Monika)
??	??	Картограф-0Э №1
??	Ariane 5	Arsat 3
??	Ariane 5	ViaSat-3 Asia
??	Ariane 5 ECA	EDRS-D
??	??	Seosat-Ingenio-2
??	Soyuz ST B/ Fregat -MT	OneWeb smalsat (x32)
??	Soyuz ST B/ Fregat -MT	OneWeb smalsat (x32)
??	Soyuz ST B/ Fregat -MT	OneWeb smalsat (x32)
??	Vega C Cosmo-SkyMed Secon Gen 2	CSG-2
??	CZ-5	Chang'e-6
??	CZ	Two Meter Space Telescope
??	CZ	FY-4C Fengyun-4C
??	CZ	HY-3B Haiyang-3B
??	CZ-3B/ Palapa 1N	
??	??	Hainan-1 (4)
??	??	Hainan-1 (5)
??	??	Hainan-1 (6)
??	??	Sanya-1 (1)
??	??	Sanya-1 (2)
??	GSLV MK III	MOM-2 Follow on Mars Mission
??	PSLV	EnMap
??	PSLV XL	Aditya'
??	H-IIA	Hope (UAE mission to Mars)



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?? H-IIA Astro H2 (Hitomi-2), SLIM (Smart Lander for Investigating Moon)
 ?? H-IIA Inmarsat-6 F1

2021.

Feb?? [Atlas 5](#) 402 USCVC-4 (US Commercial Vehicles)

Feb?? [Soyuz-2](#) [Progress MS](#) 16

Mar30. [Soyuz-2-1A](#) [Soyuz MS 18](#)
 Cdr: xx, Akihiko Hoshide, xx

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

?? [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](#) 17
 ?? 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)

Aug?? [Atlas 5](#) 402 / [Falcon 9](#) USCVC-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

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

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

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

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

?? [Falcon 9](#) GPS IIIA-6
 ?? [Falcon 9](#) GPS IIIA-7
 ?? [Falcon 9](#) GPS IIIA-8

?? [Soyuz-2](#) [Progress MS](#) 18
 ?? [Soyuz-2-1B](#)/[Fregat](#)-M Transformable Modul TM

?? [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



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??	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
??	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)
??	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 19

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

Mar30. [Soyuz-2-1A](#) [Soyuz MS](#) 19

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

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

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

June??	Ariane 5	MTG-I2
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??	Sunkar ??	
??	Soyuz-2	Progress MS 20

Aug??	H2B	Phobos sample return
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Aug??	Atlas 5 402 / Falcon 9	USCV-7 (US Commercial Vehicles)
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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
??	Soyuz-2 1a / Fregat	Luna 26 (Luna-Resurs OA)
??	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
??	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
??	Soyuz-2	Progress MS 23
??	Ariane 5	MTG-S2/Sentinel-4A
Aug??	Atlas 5 402 / Falcon 9	USCV-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)



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- ?? 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.
- ?? [Soyuz-2](#) 1b Luna 27 (Luna-Resurs PA) Testing an adaptive landing mode with a radio-beacon; delivering a rover
- ?? [Proton-M/Briz-M](#) Ekspres – AT3, AT4
- ?? [Soyuz-2-1B/Fregat-M](#) Resurs PM - 3
- ?? [Angara](#) 1.2 [Gonets](#) x 3
- ?? [Soyuz-2-1B](#) Obzor R -2
- ?? [Soyuz-2-1B](#) Obzor O -1
- ?? [Soyuz-2-1B/Fregat-M](#) Ellips - 1
- ?? [Angara](#) A5P/DM03 Dopler 1, 2
- ?? [Soyuz-2-1B/Fregat-M](#) Meteor M No2-5
- ?? [Soyuz-2-1B/Fregat-M](#) Arktika M 3
- ?? [Vega](#) C Space Rider 4
- ?? [Soyuz ST](#) B/[Fregat](#)-MT Sentinel-1C
- ?? CZ SPORT (Solar Polar Orbit Radio Telescope)
- ?? 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

- Feb?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-10 (US Commercial Vehicles)
- Mar30.** [Soyuz-2-1A](#) [Soyuz MS 23](#)
- ?? CZ7 TZ 6 Tianzhou 6 (Logistic Cargo Vechile)
- Aug?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-11 (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](#) 25
- ?? [Soyuz-2](#) [Progress MS](#) 26
- ?? [Soyuz-2](#) [Progress MS](#) 27



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?? [Soyuz-2](#) 1b Luna28 (Luna-Grunt-1) delivering a new-generation rover for gathering, analysis and uploading of samples

?? [Proton-M](#) / DM-03 Spektr - UF
 ?? [Soyuz-2-1B/Fregat-M](#) Resurs PM - 4
 ?? [Angara](#) 1.2 [Gonets](#) x 2, Gonets M
 ?? [Soyuz-2-1B/Fregat-M](#) Arktika M 4
 ?? ?? Ямал GK VEO 1
 ?? [Soyuz-2-1A](#) Obzor P -1
 ?? [Soyuz-2-1B/Fregat-M](#) Razdan - 3
 ?? [Soyuz-2-1B/Fregat-M](#) Meteor M No2-6

?? ?? DYNAMIC/STP-06

?? CZ Asteroid (Ceres) Sample Return Mission

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

2025

?? SLS Block IA II Orion: Exploration Mission 5 (Crew to Cislunar)

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

?? SLS Block I Europa Clipper

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

2069.

?? ?? [Interstellar mission](#)



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