



# Blog Gorana Hudeca

## Predstojeća lansiranja u Svemir (15.7.2019.)

2019.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in **red**. Last change **15. July 2019**.

**July20. 1628UTC Soyuz FG Soyuz MS 13 (S60/61)**  
CDR: Александр Александрович Скворцов (Alexander Skvortsov), Luca Parmitano (ESA), Andrew Morgan (NASA)  
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

**July21. 2335UTC Falcon 9 Dragon SpX-18**  
Launch site: [Cape Canaveral](#), USA

**July22. 0500UTC Hyperbola-1 SQX-1 7 satellites**  
Launch site: [Jiuquan](#), China **100**

**July24. 1930UTC Ariane 5 ECA VA249 Intelsat 39 / EDRS-C (Hylas 3)**  
Launch site: [Kourou](#), French Guiana

**July25. 1455UTC Delta IV GPS IIIA-2**  
Launch site: [Cape Canaveral](#), USA

**July26. 0330UTC CZ-2C Yaogan 30-5**

**July31. 1231UTC Soyuz-2 Progress MS 12**  
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

**July?? GSLV Mk III D3 Chandrayaan 2**  
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

?? [Soyuz-2-1B/Fregat](#) Meridian 18L  
?? [Soyuz-2-1B/Fregat](#) 14F01 (Neutron)

**Aug05. 2137UTC Proton-M/Briz-M Blagovest 4**  
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

**Aug08. Atlas 5 551 AEHF 5**  
Launch site: [Cape Canaveral](#), USA

**Aug15. CZ-11 Zhuhai-1 Group-3**

**Aug16. CZ-3B/E Apstar-6D**

**Aug22. Soyuz-2 1A Soyuz 14 GVK**

**Aug22. CZ-4B ZY-2D Ziyuan-2D**  
Launch site: [Taiyuan](#), China

Aug?? [Falcon 9](#) Amos 17  
Launch site: [Cape Canaveral](#), USA

Aug?? [Rokot / Briz KMGeo IK 2](#) 13L



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

Aug?? Jielong-1 JL-1 Tianqi-2, CAS-7B/BP-1P

Launch site: [Jiuquan](#), China

Aug??	SSLV D1	Two defence sats
Aug??	<a href="#">PSLV</a> C47	CARTOSAT-3, NEMO-AM
Aug??	<a href="#">Electron</a>	KSM-1, KSM-2, KSM-3 (Kleos Scouting Mission)

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

Launch site: [Jiuquan](#), China

??	<a href="#">CZ-5</a> Y3	SJ-20 (DFH-5 platform)	
??	<a href="#">PSLV</a> C48 - XL	RISAT-2BR1	80
??	<a href="#">CZ-3A</a>	<a href="#">Beidou 3</a> I3Q	
??	<a href="#">Soyuz-2</a> -1V	??	

**Sep01. Cosmic Girl / LauncherOne Test Launch**

Launch site: [Spaceport America](#), USA

**?Sep06. Vega SSMS POC (Small Spacecraft Mission Service Proof Of Concept)**

**Sep11. H-2B (F9) HTV8**

**Sep17. Atlas 5 N22 (AV80) CST-100 Starliner (unmanned test)**

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

**Sep20. Astra Space NSLSat-1**

Launch site: Kodiak, USA

**Sep25. Soyuz-2-1A Soyuz MS 15 (S61/62)**

CDR : Олэг Ива́нович Скри́почка, (Oleg Ivanovich Skripotscka), **Jessica Meir**, Hazzaa **Al Mansouri**

**Sep30. Falcon 9 Starlink v1 Flight 1**

Sep?? Pegasus-XL ICON ([Helio EX-1](#))

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

Sep??	<a href="#">GSLV</a> MK II F12	GISAT -1
Sep??	CZ-6A	Satelloptic (1-13)

??	<a href="#">Atlas 5</a> 551 (AV-086)	AEHF-6
??	<a href="#">Ariane 5</a>	Inmarsat-5 F5 (GX-5)
??	<a href="#">Electron</a>	BlackSky Global 4
??	<a href="#">Electron</a>	Dove / Flock-y

**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-3A](#) [Beidou 3](#) MEO M19, [Beidou 3](#) MEO M20

Launch site: [Xichang](#), China

Oct??	<a href="#">Atlas 5</a> 551	STP-03	60
Oct??	SSLV D2	Demo 2	



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Oct??	<a href="#">PSLV</a>	RISAT-2BR2	
Oct??	<a href="#">Proton-M/Briz-M</a>	EutelSat 5 West B / MEV	
??	<a href="#">CZ-4B</a>	CBERS-4° A	
??	<a href="#">Falcon 9</a>	JCSat 18	
<b>Nov15.</b>	<a href="#">Falcon 9 (SPx-DM2)</a>	<a href="#">Dragon v2</a>	
CDR: Robert <b>Benkhen</b> , Doug <b>Hurley</b>			
<b>Nov20.</b>	<a href="#">Soyuz ST B/Fregat-MT</a>	<b>OneWeb smalsat (x32)</b>	
<b>Nov30.</b>	<a href="#">Atlas 5 422 (AV082) CST-100 Starliner</a>		
CDR: Michael <b>Fincke</b> , Chris <b>Ferguson</b> , Nicole Aunapu <b>Mann</b>			
Nov??	<a href="#">Vega</a>	Falcon Eye 2	
Nov??	<a href="#">GSLV</a>	GISAT -2	
Nov??	<a href="#">CZ-2D</a>	ETRSS-1 (Ethiopian multi-spectral Remote Sensing Satellite)	
Nov??	<a href="#">Falcon 9</a>	Anasis II	
??	<a href="#">Ariane 5</a>	JCSat 17	
??	Kuaizhou-1A	Hainan-1 (1), Hainan-1 (2), Hainan-1 (3)	
??	Minotaur 1	NROL 111	
??	<a href="#">Falcon 9</a>	SiriusXM SX7	
??	Minotaur IV	NROL 129	
??	<a href="#">PSLV</a>	HRSAT	
<b>Dec04.</b>	<a href="#">Falcon 9 FT</a>	<a href="#">Dragon SpX-19</a>	
<b>Dec05.</b>	<a href="#">Soyuz ST B/Fregat-MT</a>	<b>OneWeb smalsat (x32)</b>	40
<b>Dec20.</b>	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 13</a>	
Dec??	<a href="#">Rokot / Briz KM</a>	<a href="#">Gonets</a> x 3 (No 24,25,26), Blits-M	
Launch site: Плесецк ( <a href="#">Plesetsk</a> ) Cosmodrome, Russia			
Dec??	<a href="#">Proton-M/Briz-M</a>	Elektro L – 3	
Launch site: Байконур ( <a href="#">Baikonur</a> ) Cosmodrome, Kazakhstan			
Dec??	<a href="#">Proton-M/Briz-M</a>	Ekspress 80, Ekspress 103	
Dec??	<a href="#">Soyuz-2-1B/Fregat-M</a>	CAS500-1	
Dec??	<a href="#">Soyuz-2-1B/Fregat</a>	Glonass K2 / 13	
Dec??	<a href="#">CZ-3B/YZ-1</a>	<a href="#">Beidou 3</a> MEO M21, <a href="#">Beidou 3</a> MEO M22	
Dec??	<a href="#">Angara A5/ Briz M</a>	Kosmos	
Dec??	<a href="#">Falcon 9</a>	GPS IIIA-3	
??	<a href="#">Atlas 5</a> 551	AFSPC-7 (X-37B OTV 6)	
??	<a href="#">Atlas 5</a> 551	Asteroid Retrieval Spacecraft (ARS)	
??	??	EX-3	
??	<a href="#">Ariane 5</a> ECA	Eutelsat BB4A (African Broadband Satellite)	
??	<a href="#">Ariane 5</a> ECA	Star One D2	
??	<a href="#">Vega</a>	OpSis	
??	<a href="#">Soyuz-2-</a>	Razdan 1	



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??	<a href="#">Proton-M/Briz-M</a>	Kosmos	
??	<a href="#">Soyuz-2</a> 1A	Energiya-100	
??	<a href="#">Soyuz-2</a> -1B	Pion	
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Tundra 3	20
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Tundra 4	
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Glonass K1	15
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> M	Meridian	19L
??	CZ	FY-3E Fengyun-3E	
??	CZ	FY-4B Fengyun-4B	
??	<a href="#">CZ-2C</a>	HY-1D Haiyang-1D	
??	<a href="#">CZ-4B</a>	HY-2C Haiyang-2C	
??	CZ-6A	HY-2D Haiyang-3A	
??	CZ	CBERS-SAR	1
??	CZ-??	<a href="#">CAS-4A</a> , <a href="#">CAS-4B</a>	
Launch site: <a href="#">Taiyuan</a> , 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)	
??	<a href="#">KZ-1A</a>	Jilin 1-10	
??	<a href="#">KZ-1A</a>	Jilin 1-11	
??	<a href="#">KZ-1A</a>	Jilin 1-12	
??	<a href="#">CZ-2D</a>	GF-7 Gaofen-7	
??	<a href="#">CZ-11</a>	Fengtai Shaonian-02	
??	<a href="#">CZ-3B/G2</a>	ZX-18 Zhongxing-18	
??	<a href="#">PSLV</a>	RISAT_1A	
??	<a href="#">PSLV</a>	IRNSS-1J	
<b>8 + 9</b>			
<b>40 + 102</b>			

## 2020.

Jan??	<a href="#">Falcon 9</a>	<a href="#">Dragon</a> SpX-20
?? - inaugural flight - Vega-C - Kourou	ZLV	
??	<a href="#">Falcon 9</a>	SAOCOM-1B, SAOCOM-1C
??	<a href="#">Ariane 5</a> ECA	GSAT-20
<b>Feb05.</b>	<a href="#">Atlas 5</a>	<a href="#">Solar Orbiter (Solo)</a> (ESA)
Feb??	H-2B (F10)	HTV9



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Feb??	<a href="#">CZ-3B/YZ-1</a>	<a href="#">Beidou 3 2GQ</a>	
Feb??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 14</a>	
Feb??	<a href="#">GSLV</a>	GSAT - 32	
Feb??	<a href="#">Soyuz ST B/Fregat-MT</a>	OneWeb smalsat (x32)	
??	<a href="#">Soyuz-2 1A</a>	<a href="#">Bars-M 3</a>	
Launch site:	Плесецк ( <a href="#">Plesetsk</a> ) Cosmodrome, Russia		120
??	<a href="#">Vega</a>	SSMS – 2 (Small Spacecraft Mission Service)	
??	<a href="#">Soyuz ST B/Fregat-MT</a>	OneWeb smalsat (x32)	
??	<a href="#">Ariane 5</a> ECA	Eutelsat Quantum	
??	<a href="#">Ariane 5</a> ECA	GSAT 30	
??	<a href="#">Falcon 9</a>	GPS IIIA-4	
Mar??	<a href="#">Delta IV-M</a>	DMSP-5D3 F20	
Mar??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glonass K1 / 22	
Mar??	<a href="#">Atlas 5 551</a>	AFSPC-12 (WFOV (Wide Field of View Testbed missile-warning satellite))	
??	<a href="#">Ariane 5</a>	Galaxy 30 / MEV-2	
??	<a href="#">Ariane 5</a> ECA	GEO-KOMPSAT-2B , Cheollian 2B	
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glonass M 59	
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glonass M 60	
<b>Apr15.</b>	<b>Soyuz 2-1A</b>	<b><a href="#">Soyuz MS 16 (S62/63)</a></b>	
CDR: Николай Владимирович <b>Тихонов</b> (Nikolai <b>Tikhonov</b> ), Андрей Николаевич <b>Бабкин</b> (Andrei <b>Babkin</b> ), <b>Hoshide</b>			
Apr??	<a href="#">CZ-3B/YZ-1</a>	<a href="#">Beidou 3</a> MEO M23, <a href="#">Beidou 3</a> MEO M24	
Apr??	Angara-1.2/AM <a href="#">Gonets</a> x 3 (No 30,31,32)		
Apr??	<a href="#">Soyuz-2 1B /Fregat-M</a>	CAS500-1	
<b>Apr??</b>	<a href="#">CZ-5 B</a>	Test flight	
??	CZ7	TZ 2 Tianzhou 2 (Logistic Cargo Vechile)	
??	CZ-2F/G	SZ-12 Shenzhou-12	100
??	<a href="#">Vega</a> CCERES (x3)		
May??	<a href="#">Falcon 9</a>	<a href="#">Dragon v2</a> (USCV-1)	
Cdr: Victor <b>Glover</b> , Mike <b>Hopkins</b> , Soichi <b>Noguchi</b> , <b>Ryzhkow??</b>			
May??	<a href="#">Soyuz-2 1B</a>	Progress M-UM	
May??	Ariane 62	CSO-2	
June??	<a href="#">Ariane 5</a>	MTG-S1/Sentinel-4A	
June??	<a href="#">CZ-3C</a>	<a href="#">Beidou 3</a> G3Q	
June??	Vega_C	Space Rider flight 1	
June??	<a href="#">Atlas 5 551</a>	AFSPC-8 (GSSAP 5, GSSAP 6)	
June??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 15</a>	
??	<a href="#">Vega</a>	Seosat (Ingenio)	
<b>July16</b>	<b>Ariane 62</b>	<b>OneWeb</b>	
<b>July17.</b>	<b><a href="#">Atlas 5</a></b> (541)	<b><a href="#">Mars 2020 rover</a></b>	
<b>July23.</b>	<b><a href="#">CZ-5</a> Y4</b>	<b><a href="#">Mars probe</a> (orbiter + lander + rover)</b>	



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**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??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glonass K2 / 14	
July??	<a href="#">Soyuz-2-1B / Fregat</a>	Arktika-M	
??	Vega-C Pleiades Neo 1, Pleiades Neo 2		
??	<a href="#">Ariane 5</a> ViaSat 3 EMEA		
Aug??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-21	
Sep??	CZ	CBERS-6	80
Sep??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glonass K2 / 15	
Sep??	<a href="#">Falcon 9</a>	GPS IIIA-5	
Sep??	<a href="#">Atlas 5</a> 552	Dream Chaser Cargo System SNC-1	
Sep??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 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??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat-M</a>	<a href="#">Gonets</a> x 3 (No 27,28,29)	
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-M</a>	Resurs N°4	

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

**Dec04. [CZ-5](#) Y5 **Chang'e-5 (Sample return)****

**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??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 17	
??	??	PACE	60
??	??	EX-4	
??	??	ACE	
??	??	HyspIRI	



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??	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</a> / <a href="#">Briz-M</a>	AOneSat-1	
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	Terrestar-2	
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	SkyTerra 2	
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	Ekspress AMU 3 / Ekspress AMU 7	
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	Yenisey A1	
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	Ямал-501	
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	EutelSat	
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	Ямал-GK-1	40
??	<a href="#">Proton-M</a>	PTK NP	

?? [Soyuz-2](#)-1A/[Fregat](#) Resonance 1A, Resonance 1B  
 RESONANCE is a project to study Earth's magnetosphere consisting of four similar satellites.

??	<a href="#">Soyuz-2</a> -1B	Lotos S1	
??	<a href="#">Soyuz-2</a> -1B	Persona	
??	<a href="#">Soyuz-2</a> -1A	Kobalt M	
??	<a href="#">Soyuz-2</a> -1A	Foton M	
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Kondor-FKA n.º 1	
??	<a href="#">Soyuz-2</a> -1B	Obzor R -1	
??	??	Zond	
??	??	MKA PN6 (Monika)	
??	??	Картограф-ОЭ №1	

?? [Angara](#) 1.2 Kosmos

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

?? ?? Seosat-Ingenio-2

?? [Vega](#) C 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		



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??	??	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 Shijian-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
??	<a href="#">Safir 1 B</a>	Tadbir
??	Safir 3A	Pars sepher

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## 2021.

Feb??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 18</a>
Feb??	<a href="#">Falcon 9</a>	GPS IIIA-6
Feb??	<a href="#">Falcon H</a>	AFSPC-44

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

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

Mar??	<a href="#">Atlas 5</a> 411	SBIRS-GEO 5
Apr??	Ariane 62	Galileo-FOC FM23, Galileo-FOC FM24
Apr??	<a href="#">Falcon 9</a>	<a href="#">IXPE (Imaging X-ray Polarimetry Explorer)</a>
May??	<a href="#">Falcon 9</a>	<a href="#">Dragon v2</a> USCV-3 (US Commercial Vehicles)
CDR: <b>Lindgren</b> , ??(NASA), ??(RF)		
??	<a href="#">CZ-5B Y2</a>	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.





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June??	<a href="#">Falcon 9</a>	DART (Double Asteroid Redirection Test)
??	CZ7	TZ 3 Tianzhou 3 (Logistic Cargo Vehicle)
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 19</a>
??	CZ-2F/G	SZ-14 Shenzhou-14
??	Ariane 62	Galileo-FOC FM25, Galileo-FOC FM26
July??	Vulcan/Minotaur 6/ <a href="#">Falcon 9</a> v1.1	JPSS-2
July??	<a href="#">Vega C</a>	Biomass
July??	<a href="#">Soyuz-2</a> 1a / <a href="#">Fregat</a>	Luna 25 (Luna-Glob-1)
July??	GSLV-Mk III. Gaganyaan-2	
??	<a href="#">Soyuz ST B</a> / <a href="#">Fregat</a> -MT	EarthCare
<b>Sep30.</b>	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS 18</a>
Sep??	<a href="#">Soyuz ST B</a> / <a href="#">Fregat</a> -MT	MetOp-SG A1/EPS-SG-a/Sentinel-5A
Sep??	<a href="#">Falcon 9</a>	SWOT
Sep??	<a href="#">Falcon 9</a>	OHB SARah 2/3
<b>Oct16.</b>	<a href="#">Atlas 5 401</a>	<b>Lucy</b>
Oct??	<a href="#">Atlas 5 401</a> / <a href="#">Falcon 9</a> v1.1	JPSS Free Flyer 2 (TSIS-2)
Oct??	Ariane 62	CSO-3
Nov??	<a href="#">Atlas 5 402</a>	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 5 552</a>	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 20</a>
??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a> -M	Transformable Modul TM
??	<a href="#">Proton-M</a>	HƏM-1
??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a> -M	Meteor M No2-4
??	<a href="#">Angara 1.2</a>	<a href="#">Gonets</a> x 3
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	Ekspress-RV1, Ekspress-RV2
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	Ekspress AMU 4
??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a> -M	Smotr R №1
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	IntelSat
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	Elektro L - 4
??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a> -M	Arktika M 2
??	<a href="#">Proton-M</a> / DM-03	<a href="#">Glonass-M</a> /K21,K22,K23
??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a> -M	Kondor-FKA n.º 2
??	<a href="#">Soyuz-2 1B</a> / <a href="#">Fregat</a> -M	Resurs N°5



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??	<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)

## 2022.

Jan??	??	Solar Sentinels
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 21</a>
??	<a href="#">CZ-5 B</a>	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??	<a href="#">Atlas 5</a>	NROL-107 Silentbaker
Apr??	<a href="#">CZ-3B/G2</a>	LSTSAT (Nicasat 1)
??	CZ7	TZ 4 Tianzhou 4 (Logistic Cargo Vehicle)
??	<a href="#">CZ-5 B</a>	Mengtian Lab module    Space station module
??	CZ-2F/G	SZ-15 Shenzhou-15

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

May??	<a href="#">Atlas 5 402 / Falcon 9</a>	USCV-5 (US Commercial Vehicles)
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## June04. **SLS Block I Orion: Exploration Mission 2 (Crew to Cislunar) Mission)**

June??	Ariane 5	MTG-I2
??	Sunkar ??	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 20</a>



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Aug??	H2B	Phobos sample return
Aug??	<a href="#">Atlas 5</a> 411	SBIRS-GEO 6
<b>Sep30.</b>	<b><a href="#">Soyuz-2-1A</a></b>	<b><a href="#">Soyuz MS 20</a></b>
Nov??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-6 (US Commercial Vehicles)
Dec??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	MetOp-SG B1
Dec??	<a href="#">Vega</a> C	FLEX (Fluorescence Explorer satellite)
??	Sunkar Federatsia (unmaned)	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 21
??	<a href="#">Falcon 9</a>	GPS IIIA-9/GPS IIIB-1
??	<a href="#">Falcon 9</a>	GPS IIIA-10/GPS IIIB-2
??	<a href="#">Proton-M/Briz-M</a>	Ekspress – AMU 5
??	<a href="#">Proton-M/Briz-M</a>	Ekspress – AMU 6
??	<a href="#">Proton-M/Briz-M</a>	Ekspress – RV 3, Ekspress – RV 4
??	<a href="#">Angara</a> 1.2	<a href="#">Gonets</a> x 3
??	<a href="#">Proton-M/Briz-M</a>	Eutelsat
??	<a href="#">Proton-M/Briz-M</a>	Intelsat
??	<a href="#">Soyuz-2-1B/Fregat</a> -M	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</a> -M	Resurs PM - 1
??	<a href="#">Angara</a> A5/ <a href="#">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</a> C	Space Rider 3
??	<a href="#">Vega</a> C	CryoSat FO
??	CZ	HY-3C Haiyang-3C

## 2023.

??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 22
<b>Mar30.</b>	<b><a href="#">Soyuz-2-1A</a></b>	<b><a href="#">Soyuz MS 21</a></b>
May??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-7 (US Commercial Vehicles)
??	CZ7	TZ 5 Tianzhou 5 (Logistic Cargo Vechile)
??	CZ-2F/G	SZ-16 Shenzhou-16
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 23
??	<a href="#">Ariane 5</a>	MTG-S2/Sentinel-4A
<b>Sep30.</b>	<b><a href="#">Soyuz-2-1A</a></b>	<b><a href="#">Soyuz MS 22</a></b>



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Nov??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-8 (US Commercial Vehicles)
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 24
??	SLS Block IA II	Orion: Exploration Mission 3 (Crew to Cislunar)
??	Sunkar Federatsia	(unmaned flight to ISS)
??	A Russian <a href="#">Proton/Briz-M</a> (or Angara) rocket to launch the <a href="#">Laplas-P</a> 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</a> 1.2	<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</a> A5P/DM03	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
??	<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-2-1b</a>	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)

## 2024

**Mar30.** [Soyuz-2-1A](#) [Soyuz MS 23](#)

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

?? CZ7 TZ 6 Tianzhou 6 (Logistic Cargo Vechile)

**Sep30.** [Soyuz-2-1A](#) [Soyuz MS 24](#)

Oct?? EELV GOES-U

Nov?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-10 (US Commercial Vehicles)

?? SLS Block IA II Orion: Exploration Mission 4 (Crew to Cislunar)

?? Sunkar Federatsia (Light 14t – 2 man to ISS)



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?? [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

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



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??	CZ	Jupiter Orbiter
??	CZ	Mars Sample Return
??	CZ	Chang'e-8 (Moon north pole landing)
??	<a href="#">Angara</a>	A5/DM03 Bumerang (FobosGrunt 2)

## 2069.

??	??	<a href="#">Interstellar mission</a>
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