



## Blog Gorana Hudeca

### Predstojeća lansiranja u Svemir (17.2.2020.)

2020.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in red. Last change on 17.Feb 2020.

**Feb17. 1505UTC [Falcon 9](#) Starlink v1 Flight 4**  
Launch site: [Cape Canaveral](#), USA

**Feb18. 2218UTC [Ariane 5 ECA \(VA252\)](#) GEO-KOMPSAT-2B , JCSat 17**  
Launch site: [Kourou](#), French Guiana

**Feb19. 2105UTC [CZ-2D](#) ?XJS-F**  
Launch site: [Xichang](#), China

**Feb20. 0800UTC [Soyuz-2-1A/Fregat M](#) Meridian M 9**  
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

**Feb25. 2030UTC [Rocket v3.0](#) NSLSat-1**  
Launch site: [Pacific spaceport complex Alaska](#), USA

Feb?? [CZ-11](#) CX-6-1  
Launch site: [Xichang](#), China

**Mar02. 0645UTC [Falcon 9](#) [Dragon](#) SpX-20**  
Launch site: [Cape Canaveral](#), USA

**Mar05. 1248UTC 0300UTC [GSLV](#) F10 GISAT 1**  
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

**Mar06. 0133UTC [Soyuz-2 B \(VS24\)](#) Falcon Eye 2**  
Launch site: [Kourou](#), French Guiana 160

**Mar15. [Soyuz-2-1B/Fregat](#) Glonass M 60**  
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

**Mar18. [Soyuz-2B/Fregat-MT](#) OneWeb smalsat (x34)**  
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

**Mar19. 1922UTC [Atlas 5 551 \(AV-086\)](#) AEHF-6**  
Launch site: [Cape Canaveral](#), USA

**Mar24. 0150UTC [Vega \(VV16\)](#) SSMS POC (Small Spacecraft Mission Service Proof Of Concept)**  
Launch site: [Kourou](#), French Guiana

**Mar26. [Electron](#) ElaNa; Andesite**  
Launch site: [Kaitorete Spit](#), New Zeland

**Mar31. [Minotaur IV](#) NROL 129**  
Launch site: [Wallops Island](#), USA

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



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Mar??	<a href="#">Delta IV-</a>	DMSP-5D3 F20
Mar??	<a href="#">Falcon 9</a>	SAOCOM-1B, SAOCOM-1C
Mar??	<a href="#">CZ-3B/YZ-1</a>	<a href="#">Beidou 3</a> G2Q
Mar??	CZ-7A	TJSW-6
Mar??	<a href="#">GSLV</a>	GSAT - 32
Mar??	<a href="#">Falcon 9</a>	Starlink v1 Flight 5
Mar??	<a href="#">PSLV</a> (C49)	RISAT-2BR2 + 4 Kleos + 4 Spiresats

?? [KZ-1A](#) Xingyun-2 (01,02)  
Launch site: [Jiuquan](#), China

?? [CZ-2C](#) Yaogan Weixing – 30 Group 6  
Launch site: [Xichang](#), China

?? KZ-11 Xiaoxiang-4 Jilin-1 (2A), gamma ray burst detection micro satellite, Xianrikui-1A, Xianrikui-1B, Yijian Duoxing, Xingyun-1 (01,02)  
Launch site: [Jiuquan](#), China

??	<a href="#">Ariane 5</a>	Galaxy 30 / MEV-2	
??	<a href="#">Atlas 5</a> 551	Asteroid Retrieval Spacecraft (ARS)	
??	??	EX-3	140
??	<a href="#">H-IIA</a>	JDRS-1	

**Apr09.** [Soyuz 2-1A](#) [Soyuz MS 16 \(S63/64\)](#)  
CDR: Николай Владимирович **Тихонов** (Nikolai **Tikhonov**), Андрей Николаевич **Бабкин** (Andrei **Babkin**), Christopher John **Cassidy**  
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

**Apr10.** [Soyuz-2 ST \(VS25\)](#) **CSO-2**  
Launch site: [Kourou](#), French Guiana

**Apr25.** [Soyuz-2](#) [Progress MS 14](#)  
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

**Apr29. 1100UTC** [Falcon 9](#) **GPS IIIA-3**  
Launch site: [Cape Canaveral, USA](#)

Apr?? Firefly Alpha first flight  
Launch site: [Vandenberg](#), USA

Apr?? SSLV D1 Two defence sats  
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

Apr?? [Proton-M/Briz-M](#) Ekspress 80, Ekspress 103  
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

Apr?? CZ-5B Y1 New generation manned spacecraft

?? [Ariane 5](#) ECA Eutelsat Quantum

**May07.** [Falcon 9 \(SPx-DM2\)](#) [Dragon v2](#)  
CDR: Robert **Benkhen**, Doug **Hurley**

May?? [Soyuz-2 B/Fregat-MT](#) OneWeb smalsat (x36)  
Launch site: Восточный ([Vostochniy](#)) Cosmodrome, Russia



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May??	<a href="#">H-2B</a> (F10)	<a href="#">HTV9</a>	
May??	??CZ-8	Taihu -1	
May??	<a href="#">Atlas 5</a> 551	AFSPC-7 (X-37B OTV 6)	
??	<a href="#">Atlas 5</a> 422 (AV082)	CST-100 Starliner unmaned test	
?? - inaugural flight - Vega-C – Lares 2			
??	<a href="#">Falcon 9</a>	Anasis II	
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glonass K1 / 15	
June??	<a href="#">Ariane 5</a>	MTG-S1/Sentinel-4A	120
June??	<a href="#">CZ-3C</a>	<a href="#">Beidou 3</a> G3Q	
June??	Vega_C	Space Rider flight 1	
June??	<a href="#">Delta IV-H</a>	NROL-44	
June??	<a href="#">Ariane 5</a> ECA	GSAT-20	
June??	<a href="#">Soyuz-2</a> B / <a href="#">Fregat-M</a>	CAS500-1; +	
June??	<a href="#">Vega</a>	Seosat (Ingenio)	
June??	<a href="#">PSLV</a> (C50)	Oceansat-3A	
June??	<a href="#">Soyuz-2B/Fregat-MT</a>	OneWeb smalsat (x36)	
June??	<a href="#">Safir 1 B</a>	Nahid-1	
Launch site:	<a href="#">Semnan</a> , Iran		
??	??	Xidian -1	
??	<a href="#">Angara</a> A5/ Briz M	Kosmos	
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glonass K2 / 13	
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glonass M / 61	
??	SSLV D2	Demo 2	
??	<a href="#">CZ-3B/</a>	Palapa 1N	
<b>July16</b>	<b>Ariane 62</b>	<b>OneWeb</b>	
<b>July17. 1300UTC</b>	<b><a href="#">Atlas 5</a> (541)</b>	<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>	
<b>July25.</b>	<b><a href="#">Proton-M/Briz-M</a></b>	<b>ExoMars (CM+DM)</b> 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 ( <a href="#">Baikonur</a> ) Cosmodrome, Kazakhstan		
July??	CZ-6A	Satelloic (1-13)	100
July??	<a href="#">GSLV</a> MK II	F12 GISAT -2	
July??	<a href="#">H-IIA</a>	<a href="#">Hope</a> (UAE mission to Mars)	
July??	<a href="#">PSLV</a> C51	RISAT_1A	
??	Vega-C Pleiades Neo 1, Pleiades Neo 2		
??	<a href="#">Ariane 5</a>	ViaSat 3 EMEA	
??	<a href="#">Vega</a>	OpSis	
??	<a href="#">Falcon 9</a>	SiriusXM SX7	
??	<a href="#">PSLV</a>	Cartosat-3B	
??	<a href="#">PSLV</a>	IRNSS-1J	
<b>Aug05.</b>	<b><a href="#">Falcon 9</a> FT</b>	<b><a href="#">Dragon</a> SpX-21</b>	
<b>Aug20.</b>	<b><a href="#">Soyuz-2</a></b>	<b><a href="#">Progress</a> MS 15</b>	



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

Aug?? [Soyuz-2 B/Fregat](#)-MT OneWeb smalsat (x32)  
 Aug?? [Falcon 9](#) GPS IIIA-4  
 Aug?? [PSLV](#) HRSAT

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

?? [Vega](#) C CERES (x3)  
 ?? [Vega](#) SSMS – 2 (Small Spacecraft Mission Service)

Sep?? CZ CBERS-6  
 Sep?? [Falcon 9](#) GPS IIIA-5  
 Sep?? ?? GOES-T (National Security Space Launch program)  
 Sep?? [Atlas 5](#) 531 NROL-101 **80**

?? [Soyuz-2-1B/Fregat](#)-M Glonass K2 / 17  
 ?? [Soyuz-2-1B / Fregat](#) Arktika-M

**Oct14. Soyuz 2-1A Soyuz MS 17 (S63/64)**  
 CDR: Анатолій Алексеевич **Иванішин (Ivanishin)**, Иван Викторович **Вагнер (Vagner)**, Stephen **Bowen**  
 Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

Oct?? Vega Proba 3  
 Oct?? [Vega](#) C Cosmo-SkyMed Secon Gen 2 CSG-2  
 Oct?? JL-1 Hainan-1 (4)  
 Oct?? [Antares](#) 230 [Cygnus](#) OA-14

?? [Falcon 9](#) SARah 1  
 ?? [Falcon 9](#) SiriusXM SX8

Nov?? [Atlas 5](#) 402 CST 100 Starliner  
 Cdr: John **Cassada**, Sunita **Williams**,

Nov?? [Soyuz ST B/Fregat](#)-MT (VS26) OneWeb smalsat (x34)  
 Launch site: [Kourou](#), French Guiana

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

?? [Delta IV](#)-H NROL-82  
 ?? [Atlas 5](#) 551 AFSPC-8 (GSSAP 5, GSSAP 6)  
 ?? Minotaur 1 NROL 111

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

**Dec11. Soyuz-2 Progress MS 16**  
 Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

Dec?? [Proton-M](#) MLM  
 Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

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).



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Dec??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Tundra (Kupol) 4	60
Dec??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	<a href="#">Gonets</a> x 3 (No 27,28,29)	
??	<a href="#">Angara</a> A5/ DM 03(Persei)	Kosmos	
??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-22	
??	??	PACE	
??	??	EX-4	
??	??	ACE	
??	??	HyspIRI	
??	Antares	IMAP/STP-05	
??	<a href="#">Falcon H</a>	ViaSat 3	
??	<a href="#">Falcon 9</a>	KPLO (Korea Pathfinder Lunar Orbiter)	
??	<a href="#">Atlas 5</a> 551	STP-03	
??	<a href="#">Atlas 5</a> 551	AFSPC-12 (WFOV (Wide Field of View Testbed missile-warning satellite))	
??	<a href="#">Soyuz-2</a> -1A/ <a href="#">Fregat</a>	14F01 (Neutron)	
Launch site: Плесецк ( <a href="#">Plesetsk</a> ) Cosmodrome, Russia			
??	<a href="#">Soyuz-2</a> 1A	<a href="#">Bars-M</a> 3	
Launch site: Плесецк ( <a href="#">Plesetsk</a> ) Cosmodrome, Russia			
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Tundra (Kupol) 5	
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Tundra (Kupol) 6	
??	<a href="#">Soyuz-2</a> 1A	<a href="#">Bars-M</a> 4	
??	<a href="#">Soyuz-2</a> -1B	Pion	
??	<a href="#">Soyuz-2</a> -	Razdan 1	
??	<a href="#">Soyuz-2</a> -1V	??	40
??	<a href="#">Soyuz-2</a> -1V	??	
??	<a href="#">Soyuz-2</a> -1V	??	
??	<a href="#">Angara</a> 1.2	Kosmos	
??	<a href="#">Soyuz-2</a> -/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x34)	
??	<a href="#">Soyuz-2</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x34)	
??	<a href="#">Soyuz-2</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x34)	
??	<a href="#">Soyuz-2</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x34)	
??	<a href="#">Soyuz-2</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x32)	
??	<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	
??	CZ	Two Meter Space Telescope	
??	CZ	FY-4C Fengyun-4C	
??	CZ	HY-3B Haiyang-3B	
??	??	Hainan-1 (5)	
??	??	Hainan-1 (6)	





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??	??	Sanya-1 (1)	
??	??	Sanya-1 (2)	20
??	CZ	FY-3F Fengyun-3F (Batch 2)	
??	CZ	FY-3 Fengyun-3 RM-2	
??	<a href="#">CZ-2D</a>	SJ-19 Shijian-19	
??	CZ-11	<a href="#">CAS-4A, CAS-4B</a>	
Launch site: <a href="#">Taiyuan</a> , China			
??	CZ	FY-4B Fengyun-4B	
??	<a href="#">CZ-2C</a>	HY-1D Haiyang-1D	
??	<a href="#">CZ-4B</a>	HY-2C Haiyang-2C	
??	<a href="#">CZ-11</a>	Fengtai Shaonian-02	
??	<a href="#">CZ-2D</a>	CAS 6	
??	CZ	CBERS-SAR 1	
??	CZ-4C	FY-3E Fengyun-3E	
??	<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="#">PSLV</a>	EnMap	
??	<a href="#">PSLV</a> XL	<a href="#">Aditya'</a>	
??	<a href="#">H-IIA</a>	Astro H2 (Hitomi-2), SLIM (Smart Lander for Investigating Moon)	
??	<a href="#">H-IIA</a> 204	Inmarsat-6 F1	
??	<a href="#">Safir 1 B</a>	Tadbir	
??	Safir 3A	Pars sepher	

11 + 168

## 2021.

**Jan14.**      [Atlas 5](#)      **Landsat 9**

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

Feb??      [Falcon 9](#)      GPS IIIA-6  
 Feb??      [Falcon H](#)      AFSPC-44  
 Feb??      [Soyuz-2 B/Fregat](#)-MT      OneWeb smalsat (x34)

??      [GSLV](#) MK II      Chandrayan-3

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



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## Mar31. [Ariane 5](#) ES

## JWST (James Webb Space Telescope)

Mar??	<a href="#">Atlas 5</a> 411	SBIRS-GEO 5	
Mar??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 17	
Mar??	<a href="#">Soyuz-2</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x32)	
Apr??	<a href="#">Soyuz-2</a> -1A	<a href="#">Soyuz MS</a> 18	
Cdr: Сергей Николаевич <b>Рыжиков</b> , Серге́й Влади́мирович <b>Кудь-Сверчкóв</b>			
Apr??	Ariane 62	Galileo-FOC FM23, Galileo-FOC FM24	
Apr??	<a href="#">Falcon 9</a>	IXPE (Imaging X-ray Polarimetry Explorer)	
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Resurs N°4	
May??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 18	
May??	<a href="#">Antares</a> 230	<a href="#">Cygnum</a> OA-15	
??	<a href="#">CZ-5B</a> Y2	Tian He Space Station Core Module	
??	CZ-2F/G	SZ-13 Shenzhou-13	
June??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> MT	Euclid	
Euclid will depart Earth on a Soyuz rocket launched from French Guiana and head for the L2 Lagrange point.			
			<b>80</b>
June??	<a href="#">Falcon 9</a>	DART (Double Asteroid Redirection Test)	
June??	<a href="#">Angara</a> 1.2	Kompsat-6	
June??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-23	
June??	<a href="#">Atlas 5</a> 402	USCV-2 (US Commercial Vehicles)	
??	CZ7	TZ 2 Tianzhou 2 (Logistic Cargo Vechile)	
??	CZ-2F/G	SZ-12 Shenzhou-12	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 19	
??	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</a> C	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</a> B/ <a href="#">Fregat</a> -MT	EarthCare	
Sep??	<a href="#">Soyuz ST</a> B/ <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	
Sep??	<a href="#">Atlas 5</a> 552	Dream Chaser Cargo System SNC-1	
??	<a href="#">Delta IV</a> -H	NROL-91	
<b>Oct16.</b>	<a href="#">Atlas 5</a> 401	<b>Lucy</b>	<b>60</b>
Oct??	<a href="#">Soyuz-2</a> -1A	<a href="#">Soyuz MS</a> 19	
CDR: Олѐг Ви́кторович <b>Нови́цкий</b> , Пѐтр Вале́рьевич <b>Дубров</b>			
Oct??	<a href="#">Atlas 5</a> 401/ <a href="#">Falcon 9</a> v1.1	JPSS Free Flyer 2 (TSIS-2)	
Oct??	Ariane 62	CSO-3	



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Oct??	<a href="#">Antares</a> 230	<a href="#">Cygnus</a> OA-16
??	<a href="#">Soyuz-2</a> -1A	<a href="#">Soyuz MS</a> 20
??	<a href="#">Soyuz-2</a> 1B	Progress M-UM
??	<a href="#">Falcon 9</a>	PACE
Dec??	<a href="#">Falcon 9</a>	<a href="#">Dragon v2</a> USCV-3 (US Commercial Vehicles)
CDR: <b>Lindgren</b> , ??(NASA), ??(RF)		
Dec??	<a href="#">Vega</a> C 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
??	SLS-1	Artemis-1 Orion (unmanned trip around the Moon) Exploration Mission 1 (Distant Retrograde Orbit (DRO) Tactical DRM)
??	<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</a> -1B/ <a href="#">Fregat</a> -M	Transformable Modul TM
??	<a href="#">Proton-M/Briz-M</a>	Ekspress AMU 3 / Ekspress AMU 7
??	<a href="#">Proton-M/Briz-M</a>	Elektro L - 4 <span style="color: red;">40</span>
??	<a href="#">Proton-M/Briz-M</a>	Space Drone x2
??	<a href="#">Proton-M/Briz-M</a>	Inmarsat-6 F2
??	<a href="#">Proton-M/Briz-M</a>	Kosmos
??	<a href="#">Soyuz-2</a> 1A	Energiya-100
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Meteor M No2-4
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Smotr R №1
??	<a href="#">Proton-M/Briz-M</a>	IntelSat
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Arktika M 2
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Kondor-FKA n.º 2
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Resurs №5
??	<a href="#">Angara</a> A5/ <a href="#">Briz-M</a>	Luch 5M
??	<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="#">Soyuz-2</a> -1A/ <a href="#">Fregat</a> -M	<a href="#">Gonets</a> x 6
??	<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.
??	<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 <span style="color: red;">20</span>





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??	<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="#">Zenit 3 SL /Fregat-SB</a>	Lybid'
Launch site: Байконур ( <a href="#">Baikonur</a> ) Cosmodrome, Kazakhstan		
??	<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-2 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)

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## 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.

Mar??	<a href="#">Atlas 5</a>	NROL-107 Silentbaker
??	CZ7	TZ 3 Tianzhou 3 (Logistic Cargo Vechile)
??	CZ-2F/G	SZ-14 Shenzhou-14
Apr??	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS 21</a>
Apr??	<a href="#">CZ-3B/G2</a>	LSTSAT (Nicasat 1)
??	CZ7	TZ 4 Tianzhou 4 (Logistic Cargo Vechile)
??	<a href="#">CZ-5 B</a>	Mengtian Lab module    Space station module
??	CZ-2F/G	SZ-15 Shenzhou-15



# Blog Gorana Hudeca

<b>May20.</b>	<b>Ariane 5ECA</b>	<b>JUICE (JUperiter ICy moon Explorer)</b>
<b>June04.</b>	<b>SLS Block I</b>	<b>Orion: Exploration Mission 2 (Crew to Cislunar) Mission)</b>
June??	Ariane 5	MTG-I2
June??	<a href="#">Atlas 5</a> 402	USCV-4 (US Commercial Vehicles)
??	<b>SLS-1</b>	<b>Artemis-2 Orion (manned trip around the Moon)</b>
??	Sunkar ??	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 20
Aug??	H2B	Phobos sample return
Aug??	<a href="#">Atlas 5</a> 411	SBIRS-GEO 6
Oct??	<a href="#">Soyuz-2</a> -1A	<a href="#">Soyuz MS</a> 22
Oct??	<a href="#">Vega</a> C Biomass	
??	<a href="#">Soyuz-2</a> -1A	<a href="#">Soyuz MS</a> 23
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)
Dec??	<a href="#">Delta IV</a> -H	NROL-68
Dec??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-5 (US Commercial Vehicles)
??	Sunkar Federatsia (unmanned)	
??	<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</a>	HЭM-1
??	<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="#">Proton-M/Briz-M</a>	Yenisey A1
??	<a href="#">Proton-M/Briz-M</a>	Ямал-501
??	<a href="#">Proton-M/Briz-M</a>	Ямал-GK-1
??	<a href="#">Proton-M</a>	PTK NP
??	<a href="#">Proton-M/Briz-M</a>	Ekspress-RV1, Ekspress-RV2
??	<a href="#">Proton-M/Briz-M</a>	Ekspress AMU 4
??	<a href="#">Proton-M/Briz-M</a>	Anik G2V
??	<a href="#">Proton-M/Briz-M</a>	Luch-5VM 1
??	<a href="#">Proton-M/Briz-M</a>	Luch-5VM 2
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">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</a> -1B/ <a href="#">Fregat</a> -M	Resurs PM - 1
??	<a href="#">Ariane 5</a>	Moon's south pole samples return mission



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??	<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
<b>2023.</b>		
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 22
Apr??	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS</a> 24
??	CZ7	TZ 5 Tianzhou 5 (Logistic Cargo Vehicle)
??	CZ-2F/G	SZ-16 Shenzhou-16
June??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-6 (US Commercial Vehicles)
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 23
??	<a href="#">Ariane 5</a>	MTG-S2/Sentinel-4A
Oct??	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS</a> 25
Dec??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-7 (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	(unmanned 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	Shukrayaan (Venus orbiter)
??	<a href="#">Angara</a> A5P/DM03	Lutch 5 – 2



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??	<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)

## 2024

Jan??	<a href="#">Delta IV</a> -H	NROL-70
Apr??	<a href="#">Soyuz-2</a> -1A	<a href="#">Soyuz MS</a> 26
June??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-8 (US Commercial Vehicles)
??	CZ7	TZ 6 Tianzhou 6 (Logistic Cargo Vehicle)
Sep??	<a href="#">GSLV</a> MK III	Mangalyaan – 2 Mars Orbiter
Oct??	<a href="#">Soyuz-2</a> -1A	<a href="#">Soyuz MS</a> 27
Oct??	EELV	GOES-U
Dec??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-9 (US Commercial Vehicles)
??	<a href="#">SLS-1</a>	<a href="#">Artemis-3</a> <a href="#">Orion (EM-3 Crew to Gateway with landing on Moon)</a>
??	Sunkar	Federatsia (Light 14t – 2 man to ISS)
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 25
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 26
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 27
??	<a href="#">Soyuz-2</a> 1b	Luna 27 (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</a> -1B/ <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</a> -1B/ <a href="#">Fregat</a> -M	Arktika M 4
??	??	Ямал GK VEO 1
??	<a href="#">Soyuz-2</a> -1A	Obzor P -1
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Razdan - 3
??	<a href="#">Soyuz-2</a> -1B/ <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
??	Lapan	Pengorbitan-1 (RPS-01) (Indonesia)

## 2025

June??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-10 (US Commercial Vehicles)
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??	<b>SLS-1B Artemis-4</b>	<b>Orion (EM-4 Crew to Gateway with landing on Moon)</b>
Dec??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-11 (US Commercial Vehicles)
??	SLS Block IA II	Orion: Exploration Mission 5 (Crew to Cislunar)
??	<a href="#">Soyuz-2</a> -1A	<a href="#">Soyuz MS</a> 28
??	SLS Block I	Europa Clipper
??	<a href="#">Soyuz-2</a> 1b	Luna28 (Luna-Grunt-1) delivering a new-generation rover for gathering, analysis and uploading of samples
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Resonans 2A, 2B, MKA-PN5
??	??	Ямал GK VEO 2
??	??	Ямал GK VEO 3
??	<a href="#">Angara</a> 1.2	<a href="#">Gonets</a> x 3
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Arktika M 5
??	<a href="#">Soyuz-2</a> -1B	Obzor O -2
??	<a href="#">Soyuz-2</a> -1B	Bion-M No. 3

## 2026.

June??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-12 (US Commercial Vehicles)
Dec??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-13 (US Commercial Vehicles)
??June??	<a href="#">Angara</a> A5P/KVTK	A mission to Venus ( <i>Venera D</i> ) 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)
??	<a href="#">Angara</a> A5/DM03	Bumerang (FobosGrunt 2)

## 2027.

June??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-14 (US Commercial Vehicles)
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## 2069.

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