



## Blog Gorana Hudeca

### Predstojeća lansiranja u Svemir (23.3.2020.)

2020.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in red. Last change on **23.Mar.2020.**

**Mar24. 0300UTC** [CZ-2C](#) **Yaogan Weixing – 30 Group 6**

Launch site: [Xichang](#), China

**Mar25. 1930UTC** **Rocket v3.0** **DARPA Launch Challenge 1**

Launch site: [Pacific spaceport complex Alaska](#), USA

**Mar26. 1857UTC** [Atlas 5](#) **551 (AV-086)**

**AEHF-6**

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

**Mar29. 0443UTC** [Electron](#)

**ElaNa; Andesite**

Launch site: [Kaitorete Spit](#), New Zeland

**Mar30. 2321UTC** [Falcon 9](#)

**SAOCOM-1B, SAOCOM-1C**

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

Mar?? [CZ-11](#) CX-6-1

Launch site: [Xichang](#), China

**Apr01.** [GSLV](#) **F10** **GISAT 1**

Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

**Apr05.** [PSLV](#) (C49)

**RISAT-2BR2 + 4 Kleos + 4 Spiresats**

Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

**Apr09. 0805UTC** **Soyuz 2-1A** [Soyuz MS 16 \(S63/64\)](#)

CDR: Анатолій Алексеевич **Иванішин (Ivanishin)**, Иван Викторович **Вагнер (Vagner)**, Christopher John **Cassidy**

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

**Apr19.** [CZ-3B/E](#)

**Apstar-6D**

Launch site: [Xichang](#), China

**Apr24.** **CZ-5B Y1**

**New generation manned spacecraft**

Launch site: [Wenchang](#), China

**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?? Minotaur IV

NROL 129

Launch site: [Wallops Island](#), USA

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Apr?? [Soyuz-2 B/Fregat](#) OneWeb smalsat (x36)

Launch site: Восточный ([Vostochniy](#)) Cosmodrome, Russia



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Apr?? [CZ-3B/](#) Palapa 1N

?? [Vega](#) (VV16) SSMS POC (Small Spacecraft Mission Service Proof Of Concept)  
Launch site: [Kourou](#), French Guiana

?? [Soyuz-2\\_A](#) (VS24) Falcon Eye 2  
Launch site: [Kourou](#), French Guiana

?? [Falcon 9](#) Starlink v1 Flight 7

**May20.** [Falcon 9 \(SPx-DM2\)](#) [Dragon v2](#)  
CDR: Robert **Benkhen**, Doug **Hurley**  
Launch site: [Cape Canaveral](#), USA

**May20. 1500UTC** [H-2B \(F10\)](#) [HTV9](#)  
Launch site: [Tanegashima](#), Japan

**May24.** [Proton-M/Briz-M](#) **Ekspress 80, Ekspress 103**  
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

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

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

May?? [Atlas 5](#) 551 AFSPC-7 (X-37B OTV 6)  
May?? [PSLV](#) C51 RISAT\_1A  
May?? [CZ-3B/YZ-1](#) [Beidou 3](#) G3Q  
May?? [Soyuz-2-1B/Fregat-M](#) Glonass K1 / 15L  
May?? [Electron](#) Capella Whitney

?? [Soyuz-2](#) ST (VS25) CSO-2  
Launch site: [Kourou](#), French Guiana

?? [Atlas 5](#) 422 (AV082) CST-100 Starliner unmaned test  
?? CZ-2F/G ?Experimental Spaceplane

?? [Falcon 9](#) Anasis II

**June3.** [Ariane 5 VA253](#) **Galaxy 30 / MEV-2**  
Launch site: [Kourou](#), French Guiana

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**June20.** [Vega](#) **Seosat (Ingenio), TARANIS**  
Launch site: [Kourou](#), French Guiana

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

June?? [Delta IV-H](#) NROL-44  
June?? [PSLV](#) (C50) Oceansat-3A  
June?? [Soyuz-2B/Fregat-MT](#) OneWeb smalsat (x36)

?? ?? Xidian -1  
?? [Angara](#) A5/ Briz M Kosmos  
?? SSLV D2 Demo 2



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??	<a href="#">CZ-3B/G3</a>	Tiantong-1 (02)	
<b>July16</b>	<b>Ariane 62</b>	<b>OneWeb</b>	
Launch site: <a href="#">Kourou, French Guiana</a>			
<b>July17. 1300UTC</b>	<b><a href="#">Atlas 5 (541)</a></b>	<b><a href="#">Mars 2020 rover</a></b>	
Launch site: <a href="#">Cape Canaveral, USA</a>			
<b>July23.</b>	<b><a href="#">CZ-5 Y4</a></b>	<b><a href="#">Mars probe (orbiter + lander + rover)</a></b>	
Launch site: <a href="#">Wenchang, China</a>			
<b>July23.</b>	<b><a href="#">Soyuz-2</a></b>	<b><a href="#">Progress MS 15</a></b>	
Launch site: Байконур ( <a href="#">Baikonur</a> ) Cosmodrome, Kazakhstan			
July??	CZ-6A	Satellogic (1-13)	
July??	<a href="#">H-IIA</a>	<a href="#">Hope</a> (UAE mission to Mars)	
July??	<a href="#">Soyuz-2</a> B/ <a href="#">Fregat</a>	OneWeb smalsat (x36)	
??	<a href="#">Falcon 9</a>	SiriusXM SX7	
??	<a href="#">PSLV</a>	Cartosat-3B	
??	<a href="#">PSLV</a>	IRNSS-1J	
??	<a href="#">Ariane 5</a>	MTG-S1/Sentinel-4A	100
Aug??	Firefly Alpha	first flight	
Launch site: <a href="#">Vandenberg, USA</a>			
Aug??	<a href="#">Soyuz-2</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x34)	
Aug??	<a href="#">Falcon 9</a>	GPS IIIA-4	
Aug??	<a href="#">PSLV</a>	HRSAT	
Aug??	<a href="#">GSLV</a> MK II	F12	GISAT -2
Aug??	??CZ-8		Taihu -1
??	<a href="#">Atlas 5</a> 422 (AV083)	CST-100 Starliner	
CDR: Michael <b>Fincke</b> , Chris <b>Ferguson</b> , Nicole Aunapu <b>Mann</b>			
??	<a href="#">KZ-1A</a>	Xingyun-2 (01,02)	
Launch site: <a href="#">Jiuquan, China</a>			
??	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: <a href="#">Jiuquan, China</a>			
??	<a href="#">Ariane 5</a>	ViaSat 3 EMEA	
<b>Sep07.</b>	<b><a href="#">Antares 230</a></b>	<b><a href="#">Cygnum OA-14</a></b>	
Launch site: <a href="#">Wallops Island, USA</a>			
Sep??	CZ	CBERS-6	
Sep??	<a href="#">Falcon 9</a>	GPS IIIA-5	
Sep??	??	GOES-T (National Security Space Launch program)	
Sep??	<a href="#">Atlas 5</a> 531	NROL-101	
Sep??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	<a href="#">Gonets</a> x 3 (No 27,28,29)	
Sep??	<a href="#">PSLV</a>	Amazonia	
Sep??	<a href="#">Soyuz-2</a> B / <a href="#">Fregat</a> -M	CAS500-1; +	
Sep?? - inaugural flight - Vega-C		Lares 2	



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?? [Ariane 5](#) ECA GSAT-20 80

**Oct14.** [Soyuz 2-1A](#) [Soyuz MS 17 \(S63/64\)](#)

CDR: ??, ??, Stephen **Bowen**

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

**Oct30.** [Falcon 9 FT](#) [Dragon SpX-21](#)

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

Oct?? JL-1 Hainan-1 (4)

?? [Falcon 9](#) SARah 1

?? [Falcon 9](#) SiriusXM SX8

?? [Ariane 5](#) ECA Eutelsat Quantum / Star One D2

**Nov30.** [Proton-M](#) **MLM**

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

Nov?? [Atlas 5](#) 402 CST 100 Starliner

Cdr: John **Cassada**, Sunita **Williams**,

Nov?? [Soyuz ST](#) B/[Fregat](#) (VS26) OneWeb smalsat (x34)

Launch site: [Kourou](#), French Guiana

?? [Delta IV](#)-H NROL-82

?? [Atlas 5](#) 551 AFSPC-8 (GSSAP 5, GSSAP 6)

?? Minotaur 1 NROL 111

?? Vega-C Pleiades Neo 1, Pleiades Neo 2

?? [CZ-3B/G3](#) Tiantong-1 (03)

?? [Soyuz-2](#) 1B /[Fregat](#)-M Glonass K1 / 16

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

Launch site: [Wenchang](#), China

**Dec09.** [Soyuz-2-1B](#) / [Fregat](#) **Arktika-M**

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

**Dec11.** [Soyuz-2](#) [Progress MS 16](#)

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). 60

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

Dec?? [Soyuz-2](#) B/[Fregat](#) OneWeb smalsat (x34)

?? [Angara](#) A5/ DM 03(Persei) Kosmos

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

?? ?? PACE

?? ?? EX-4

?? ?? ACE

?? ?? HypIRI

?? Antares IMAP/STP-05



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?? [Falcon H](#) ViaSat 3  
 ?? [Atlas 5](#) 551 STP-03  
 ?? [Atlas 5](#) 551 AFSPC-12 (WFOV (Wide Field of View Testbed missile-warning satellite))

?? Rocket v3.0 DARPA Launch Challenge 2  
 Launch site: [Pacific spaceport complex Alaska](#), USA

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

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

?? [Soyuz-2](#) 1B /[Fregat](#)-M Tundra (Kupol) 5  
 ?? [Soyuz-2](#) 1B /[Fregat](#)-M Tundra (Kupol) 6  
 ?? [Soyuz-2](#)-1B/[Fregat](#)-M Glonass M / 61

?? [Soyuz-2](#) 1A [Bars-M](#) 4  
 ?? [Soyuz-2](#)-1B Pion 40  
 ?? [Soyuz-2](#)- Razdan 1  
 ?? [Soyuz-2](#)-1V ??  
 ?? [Soyuz-2](#)-1V ??  
 ?? [Soyuz-2](#)-1V ??  
 ?? [Angara](#) 1.2 Kosmos

?? [Soyuz-2](#) B/[Fregat](#) OneWeb smalsat (x34)  
 ?? [Soyuz-2](#) B/[Fregat](#) OneWeb smalsat (x36)

?? [Ariane 5](#) Arsat 3  
 ?? [Ariane 5](#) ViaSat-3 Asia  
 ?? [Ariane 5](#) ECA EDRS-D

?? CZ FY-4C Fengyun-4C  
 ?? CZ HY-3B Haiyang-3B

?? ?? Hainan-1 (5)  
 ?? ?? Hainan-1 (6)  
 ?? ?? Sanya-1 (1)  
 ?? ?? Sanya-1 (2)  
 ?? ?? Gaofen-5 (2)

?? CZ FY-3F Fengyun-3F (Batch 2)  
 ?? CZ FY-3 Fengyun-3 RM-2

?? [CZ-2D](#) SJ-19 Shijian-19 20

?? CZ-11 [CAS-4A, CAS-4B](#)  
 Launch site: [Taiyuan](#), China

?? CZ FY-4B Fengyun-4B  
 ?? [CZ-2C](#) HY-1D Haiyang-1D  
 ?? [CZ-4B](#) HY-2C Haiyang-2C  
 ?? [CZ-11](#) Fengtai Shaonian-02  
 ?? [CZ-2D](#) CAS 6  
 ?? CZ CBERS-SAR 1



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??	CZ-4C	FY-3E Fengyun-3E
??	??	EX-3
??	<a href="#">GSLV</a> MK II F11	GSAT-10A
Launch site: <a href="#">Satish Dhawan Space Centre</a> , Sriharikota, India		
??	<a href="#">GSLV</a>	GSAT - 32
??	<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="#">H-IIA</a>	JDRS-1
??	<a href="#">Safir 1 B</a>	Tadbir
??	Safir 3A	Pars sepher

20 + 152

## 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) **100**

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

### Mar12. [Antares](#) 230 [Cygnus](#) OA-15

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

Mar?? [Atlas 5](#) 411 SBIRS-GEO 5  
 Mar?? [Soyuz-2](#) [Progress MS](#) 17  
 Mar?? [Soyuz-2](#) B/[Fregat](#)-MT OneWeb smalsat (x32)

Apr?? [Soyuz-2](#)-1A [Soyuz MS](#) 18  
 Cdr: Сергей Николаевич **Рыжиков**, Сергей Владимирович **Кудь-Сверчкóв**, Kathleen **Rubins**

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



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??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Resurs №4	
May??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 18	
??	<a href="#">CZ-5B</a> Y2	Tian He Space Station Core Module	
??	<a href="#">CZ-2F/G</a>	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.			
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)	
??	<a href="#">CZ7</a>	TZ 2 Tianzhou 2 (Logistic Cargo Vehicle)	80
??	<a href="#">CZ-2F/G</a>	SZ-12 Shenzhou-12	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 19	
??	Ariane 62	Galileo-FOC FM25, Galileo-FOC FM26	
??	<a href="#">GSLV</a> MK II	Chandrayan-3	
July??	Vulcan/Minotaur 6/ <a href="#">Falcon 9</a> v1.1	JPSS-2	
July??	<a href="#">Vega</a> C	Biomass	
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>Oct01.</b>	<a href="#">Soyuz-2</a> 1a / <a href="#">Fregat</a>	<b>Luna 25 (Luna-Glob-1)</b>	
<b>Oct16.</b>	<a href="#">Atlas 5</a> 401	<b>Lucy</b>	
Oct??	<a href="#">Soyuz-2</a> -1A	<a href="#">Soyuz MS</a> 19	
CDR: Олѐг Вікторович <b>Новіцкий</b> , Пѐтр Валерьевич <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	
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	60
??	<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	



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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="#">Atlas 5</a> 551	Asteroid Retrieval Spacecraft (ARS)	
??	??	Seosat-Ingenio-2	
??	<a href="#">Vega</a>	OpSis	
??	<a href="#">Vega</a> C	CERES (x3)	
??	<a href="#">Vega</a>	SSMS – 2 (Small Spacecraft Mission Service)	
??	<a href="#">Vega</a>	Proba 3	
??	<a href="#">Vega</a> C	Cosmo-SkyMed Secon Gen 2	CSG-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	40
??	<a href="#">Proton-M/Briz-M</a>	Elektro L – 4	
??	<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 / 17	
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Glonass K2 / 13	
??	<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	20
??	<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	





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??	??	Zond
??	??	MKA PN6 (Monika)
??	??	Картограф-ОЭ №1
??	<a href="#">Zenit 3 SL</a> / <a href="#">Fregat</a> -SB	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</a> B/ <a href="#">Fregat</a> -MT	CSO 2 (Composante Spatiale Optique-2)
??	<a href="#">Soyuz-2</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x32)
??	<a href="#">Vega</a> C CNES/UAE Mars mission	
??	<a href="#">Vega</a> -C 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</a> 21
??	<a href="#">CZ-5</a> 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.

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?? [Soyuz-2](#)-1A [Soyuz MS](#) 21  
 CDR: ??Николай Владимирович **Тихонов** (Nikolai **Tikhonov**), Андрей Николаевич **Бабкин** (Andrei **Babkin**),

Apr??	<a href="#">CZ-3B/G2</a>	LSTSAT (Nicasat 1)
??	CZ7	TZ 4 Tianzhou 4 (Logistic Cargo Vechile)
??	<a href="#">CZ-5</a> B 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)
??	SLS-1	Artemis-2 Orion (manned trip around the Moon)
??	Sunkar ??	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 20
Aug??	<a href="#">Proton-M/Briz-M</a>	ExoMars (CM+DM) An ESA exobiology rover equipped with a deep drill developed by Astrium Satellites in the United Kingdom will launch in 2020. A Russian-built entry, descent and landing package will shepherd the rover to the red planet's surface. Launch site: Байконур ( <a href="#">Baikonur</a> ) Cosmodrome, Kazakhstan
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)
Dec ??	Soyuz 5 / DM	??
??	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</a>	НЭМ-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



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??	<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="#">Ariane 5</a>	Moon's south pole samples return mission
??	<a href="#">Ariane 5</a>	Comsat NG 2 (Syracuse 4B)
??		Vega_CSpace Rider flight 1
??		Vega_CSpace Rider flight 2
??	<a href="#">Vega</a>	C CryoSat FO
??	CZ	Xuntian (Two Meter Space Telescope)
??	CZ	HY-3C Haiyang-3C

## 2023.

??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 22</a>
Apr??	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS 24</a>
??	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 23</a>
??	<a href="#">Ariane 5</a>	MTG-S2/Sentinel-4A
Oct??	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS 25</a>
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 24</a>
??	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 3
??	<a href="#">Vega</a>	C Space Rider 4
??	<a href="#">Soyuz ST</a>	B/Fregat-MT Sentinel-1C



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?? CZ SPORT (Solar Polar Orbit Radio Telescope)  
 ?? CZ FY-4D Fengyun-4D  
 ?? CZ Chang'e-7 (Moon south pole landing)

?? [GSLV](#) MK III Shukrayaan (Venus orbiter)

?? [Angara](#) A5P/DM03 Lutch 5 – 2  
 ?? [Soyuz-2](#)-1b Bion-M No. 2  
 ?? [Angara](#) A5P/DM03 Lutch 5 – 3  
 ?? ?? Ямал GK 2

?? [Soyuz-2](#) 1a / [Fregat](#) [Luna 26](#) (Luna-Resurs OA)

## 2024

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

Apr?? [Soyuz-2](#)-1A [Soyuz MS](#) 26

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

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

Sep?? [GSLV](#) MK III Mangalyaan – 2 Mars Orbiter

Oct?? [Soyuz-2](#)-1A [Soyuz MS](#) 27

Oct?? EELV GOES-U

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

?? SLS-1 Artemis-3 Orion (EM-3 Crew to Gateway with landing on Moon)

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

?? [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



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?? [CZ-5](#) Chang'e-6 Moon polar area sample return

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

## 2025

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

?? SLS-1B Artemis-4 Orion (EM-4 Crew to Gateway with landing on Moon)

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

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

?? [Soyuz-2](#)-1A [Soyuz MS](#) 28

?? SLS Block I Europa Clipper

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

?? [Soyuz-2](#)-1B/[Fregat](#)-M Resonans 2A, 2B, MKA-PN5

?? ?? Ямал GK VEO 2

?? ?? Ямал GK VEO 3

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

?? [Soyuz-2](#)-1B/[Fregat](#)-M Arktika M 5

?? [Soyuz-2](#)-1B Obzor O -2

?? [Soyuz-2](#)-1B Bion-M No. 3

## 2026.

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

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

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

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

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

?? CZ Jupiter Orbiter

?? CZ Mars Sample Return

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

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

## 2027.

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

## 2069.



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[Interstellar mission](#)