



# Blog Gorana Hudeca

## Predstojeća lansiranja u Svemir (23.7.2018.)

2018.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in red. Last change 23.July.2018.

**July25. 1124UTC** [Ariane 5 ES \(VA244\)](#) [Galileo-FOC FM19 \(Tara\)](#), [Galileo-FOC FM20 \(Samuel\)](#), [Galileo-FOC FM21 \(Anna\)](#), [Galileo-FOC FM22 \(Ellen\)](#)  
Launch site: [Kourou](#), French Guiana

**July25. 1139UTC** [Falcon 9](#) [Iridium Next Flight 7 \(x10\)](#)  
Launch site: [Vandenberg](#), USA

**July25.** [CZ-3B/YZ-1](#) [Beidou 3 MEO M7](#), [Beidou 3 MEO M8](#)  
Launch site: [Xichang](#), China

July?? [Soyuz-2 1A](#) [Bars-M 3](#)  
Launch site: [Плесецк \(Plesetsk\) Cosmodrome, Russia](#) 100  
?? [KZ-11](#) [Xiaoxiang-4](#)

**Aug02. 0519UTC** [Falcon 9](#) [Telkom 4](#)  
Launch site: [Cape Canaveral](#), USA

**Aug06. 0808UTC** [Delta 4-H](#) [Parker Solar Probe](#)  
Launch site: [Cape Canaveral](#), USA

**Aug18. 0335UTC** [Falcon 9](#) [Telstar 18](#)  
Launch site: [Cape Canaveral](#), USA

**Aug21. 2120UTC** [Vega \(VV12\)](#) [Aeolus / ADM](#)  
Launch site: [Kourou](#), French Guiana

Aug?? [CZ-11](#) OKW-2

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

?? [KZ-1A](#) [Jilin 1-09](#)  
?? [KZ-1A](#) [Jilin 1-10](#)  
?? [KZ-1A](#) [Jilin 1-11](#)  
?? [KZ-1A](#) [Jilin 1-12](#)

**Sep05. 2120UTC** [Ariane 5 ECA \(VA243\)](#) [Azerspace 2 \(Intelsat 38\) / Horizon 3e](#)  
Launch site: [Kourou](#), French Guiana

**Sep05.** [Falcon 9](#) [SAOCAM-1A, ITASAT-1](#)  
Launch site: [Vandenberg](#), USA

**Sep10. 2232UTC** [H-2B \(F7\)](#) [HTV7](#)

**Sep12. 1246UTC** [Delta II 7320-10C](#) [ICESat-II](#)  
Launch site: [Vandenberg](#), USA



# Blog Gorana Hudeca

**Sep16.** [Falcon 9](#) (SPx-DM1) **Dragon v2 unmanned test**

**Sep24. 0800UTC** **Pegasus-XL** **ICON** ([Helio EX-1](#))  
Launch site: [Cape Canaveral](#), USA

**Sep26.** [Delta 4-H](#) **NROL-71 KH11 17 (Cristal 17)**  
Launch site: [Vandenberg](#), USA

Sep?? [CZ-2C](#) CFOSAT (China-France Oceanography SATellite)  
Sep?? [CZ-11](#) CAS-6 **80**  
Sep?? [Falcon 9](#) Es'hail 2  
Sep?? [PSLV](#) C42 ??

?? [Electron](#) Outerspace 1, Lemur  
Launch site: [Kaitorete Spit](#), New Zeland

?? [CZ-3B/YZ-1](#) Beidou 3 MEO M9, Beidou 3 MEO M10

**Oct01.** [H-2A](#) (F40) **GOSAT-2**

**Oct04.** [Atlas 5](#) (551) (AV073) **AEHF-4**

**Oct11. 0840UTC** [Soyuz-2 1A](#) [Soyuz MS 10 \(S57/58\)](#)  
**CDR:** Алексей Николаевич **Овчинин** (Aleksei Nikolaevich **Ovchinin**), Tyler **Hague**  
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

**Oct19. 0145UTC** [Ariane 5](#) ECA (VA245) [BepiColombo](#) ESA and ISAS Mercury Orbiters  
Launch site: [Kourou](#), French Guiana

**Oct22.** [Proton-M/Briz-M](#) **Elektro L – 3**  
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan

**Oct31. 0053 UTC** [Soyuz-2 1A](#) [Progress MS 10](#)

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

Oct?? [Falcon 9](#) Spaceflight SSO-A  
Launch site: [Vandenberg](#), USA

Oct?? [Soyuz-2-1B/Fregat-M](#) [Glonass-M](#) 60  
Oct?? [Falcon 9](#) GPS III-1  
Oct?? [PSLV](#) Cartosat-3  
Oct?? [GSLV](#) MK III D2 GSAT-29

?? [Falcon 9](#) [Iridium Next](#) Flight 8 (x10)  
Launch site: [Vandenberg](#), USA

?? [Electron](#) ELaNa, ...

**Nov07. 0047UTC** [Soyuz ST B/Fregat-M VS19](#) **MetOp-C**

**Nov07.** [Falcon 9](#) **Radarsat C-1, -2, C-3** **60**  
Launch site: [Vandenberg](#), USA



# Blog Gorana Hudeca

<b>Nov21.</b>	<a href="#">Antares</a> 230	<a href="#">Cygnus</a> Orb-10E
<b>Nov27.</b>	<a href="#">Atlas 5</a> N22 (AV80)	<b>CST-100 Starliner (unmanned test)</b>
<b>Nov29.</b>	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-16
Nov??	<a href="#">CZ-5</a> Y3	SJ-18 02 (DFH-5 platform)
Nov??	<a href="#">Soyuz-2</a> -1B	EgyptSat A
Nov??	<a href="#">Proton-M/Briz-M</a>	Blagovest 13
Nov??	<a href="#">GSLV</a> MK II F12	GSAT-7A
Nov??	<a href="#">Falcon H</a> Heavy	STP-02
??	<a href="#">Epsilon</a> (4)	Inovative Technology Demonstration Satellite – 1, OrigamiSat-1
	Launch site: <a href="#">Tanegashima</a> , Japan	
??	<a href="#">CZ-2D</a>	GF-7 Gaofen-7
??	<a href="#">CZ-3B/E</a>	Apstar-6D
??	<a href="#">Ariane 5</a> ECA	Eutelsat 7C
??	<a href="#">Ariane 5</a> ECA	Hellas-Sat-4
??	<a href="#">Ariane 5</a> ECA	GEO-KOMPSAT-2A (GK2A, Cheollian 2A)
??	<a href="#">Ariane 5</a>	<a href="#">GSAT-11</a>
<b>Dec06.</b>	<a href="#">Soyuz-2-1B/Fregat-M</a>	<b>Meteor M-2-2, Ionosfera 3, Ionosfera 4</b>
<b>Dec13.</b>	<a href="#">Delta IV-M</a> (5,4)	<b>WGS 10</b>
<b>Dec20. 0452UTC</b>	<a href="#">Soyuz-2 1A</a>	<a href="#">Soyuz MS 11 (S58/59)</a>
<b>CDR:</b>	Олэг Дмїтриевич Кононєнко (Oleg Dmitrievich Kononenko), Anne McClain (NASA), David Saint-Jaques	
<b>Dec26.</b>	<a href="#">Soyuz-2 1A / Fregat Kanopus V 5, Kanopus V 6</a>	
Dec??	<a href="#">Vega</a> (VV13)	<a href="#">Prisma</a>
	Launch site: <a href="#">Kourou</a> , French Guiana	
Dec??	<a href="#">CZ-3B/GIII</a>	Chang'e-4 (Moon far side Aitken Basin lander/rover)
Dec??	<a href="#">Soyuz-2-1B/Fregat</a> M	Meridian 18L
Dec??	<a href="#">Soyuz-2-1B/ Fregat</a> -M	Glonass K 15
Dec??	Minotaur 1	NROL 111
Dec??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	Cosmo-SkyMed Secon Gen 1 CSG-1
??	<a href="#">Zenit 3 SL /Fregat</a> -SB	Lybid'
	Launch site: Байконур ( <a href="#">Baikonur</a> ) Cosmodrome, Kazakhstan	
??	Minotaur-4	FORMOSAT-7 (6 sat)
??	<a href="#">Atlas 5</a>	AEHF 5
??	<a href="#">Falcon 9</a>	OHB SARah satellite (x2)
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Neutron (Kosmos)
??	<a href="#">Angara</a> A5/ <a href="#">Briz-M</a>	Kosmos (Repei)
??	<a href="#">Vega</a>	MN35-13 B <a href="#">Morocco EO Sat 1 2</a>
??	<a href="#">CZ-3B/YZ-1</a>	Beidou 3 MEO M11, Beidou 3 MEO M12
??	<a href="#">CZ-3B/YZ-1</a>	Beidou 3 MEO M13, Beidou 3 MEO M14
??	<a href="#">CZ-3B/YZ-1</a>	Beidou 3 MEO M15, Beidou 3 MEO M16



# Blog Gorana Hudeca

- ?? ?? Taurus-1  
Launch site: [Taiyuan](#), China
- ?? [CZ-2D](#) SJ-12 Shijian-12 (2)  
?? [CZ-2D](#) TH-2 Tianhui-2  
?? [CZ-2C](#) CSES-1 Earthquake electromagnetism monitor satellite  
?? ?? VeneSat-2 20  
?? [CZ-3B/E](#) CC-1 [Changcheng-1](#)  
?? CZ Deep Space Solar Observatory  
?? CZ-2 CAS-2A1, CAS-2A2
- ?? [CZ-3B/E](#) CongoSat 1
- ?? ?? Small Military Meteorological Satellite (x6)
- ?? CZ FY-3E Fengyun-3E  
?? CZ FY-4B Fengyun-4B
- ?? [CZ-4B](#) [Haiyang-1C](#) HY-1C  
Launch site: [Taiyuan](#), China
- ?? CZ-?? [CAS-4A, CAS-4B](#)  
Launch site: [Taiyuan](#), China
- ?? CZ-4B HY-1D Haiyang-1D  
?? CZ-4B HY-2B Haiyang-2B
- ?? [CZ-3C](#) [Beidou 3](#) G8
- ?? CZ Orbita-1 1  
?? CZ Huaizong-1  
?? [LS-1](#) LandSpace-1 (China)
- ?? [CZ-2D](#) SaudiSAT 5B  
?? CZ YG-32 [Yaogan Weixing](#) 32  
?? CZ?? Tianzhi-1
- ?? [Simorgh](#) [Dosti](#)  
Launch site: [Semnan](#), Iran

13 + 14  
59 + 103

## 2019.

- Jan?? [Proton-M/Briz-M](#) Ямал-601  
Jan?? [Falcon H](#) Arabsat 6A
- ?? [Falcon 9](#) PSN VI  
?? [Soyuz ST B/Fregat-MT](#) CHEOPS (Characterising ExOPlanet Satellite)

**Feb07. 0920UTC** [Soyuz-2](#) [Progress MS 11](#)

**Feb22.** [Atlas 5](#) 422 (AV082) CST-100 Starliner



# Blog Gorana Hudeca

**CDR:** Douglas **Hurley**, Robert **Behnken**, XX **YY** (Nasa)

Feb?? [CZ-3C](#) Beidou 3 I1Q  
 Feb?? [Atlas 5](#) 551 (AV-086) AEHF-6 120

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

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

?? [Vega](#) SSMS POC (Small Spacecraft Mission Service Proof Of Concept)  
 ?? [Proton-M/Briz-M](#) EutelSat 5 West B / MEV

Mar?? [Ariane 5](#) ECA GEO-KOMPSAT-2B , Cheollian 2B  
 Mar?? [Falcon 9](#) GPS IIIA-2  
 Mar?? [Falcon 9](#) [Dragon](#) SpX-17  
 Mar?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x10)

?? [Falcon 9](#) (SPx-DM2) Dragon v2

**CDR:** Eric **Boe**, Sunita **Williams**

?? [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

**Apr05.** [Soyuz-2 1A](#) [Soyuz MS 12 \(S59/60\)](#)

CDR: Олѐг Ива́нович **Скри́почка**, (Oleg Ivanovich **Skripotscka**), Christina Hammock **Koch**, UAE astronaut

**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.

Apr?? ?? GOES-T  
 Apr?? [CZ-3B/E](#) Nicasat 1  
 Apr?? [CZ-3C](#) Beidou 3 I2Q  
 Apr?? [Atlas 5](#) 531 [Cygnus](#) OA-11 100  
 Apr?? [Falcon 9](#) Dragon v2 (USCV-1) with 2 astronauts  
 Apr?? [Soyuz-2](#) [Progress MS](#) 12

May?? [Atlas 5](#) 402 CST 100 Starliner (USCV-2) with 2 astronauts  
 May?? [Falcon 9](#) FT [Dragon](#) SpX-18  
 May?? CZ CBERS-4A  
 May?? [Ariane 5](#) ECA EDRS-C (Hylas 3)

?? [Falcon 9](#) SAOCAM-1B, SAOCAM-1C

June?? [Atlas 5](#) 551 STP-03  
 June?? [CZ-5](#) B Test flight

?? [PSLV](#) RISAT 1A  
 ?? [CZ-3B/G2](#) TECSTAR 1  
 ?? SSLV ??





# Blog Gorana Hudeca

?? [Soyuz ST](#) B/[Fregat](#)-MT [O3b](#) (FM17-20)  
 ?? [GSLV](#) MK II F10 GISAT  
 ?? [Ariane 5](#) Inmarsat-5 F5  
 ?? [Ariane 5](#) ECA Eutelsat Quantum  
 ?? [Soyuz ST](#) B/[Fregat](#)-MT CSO 1 (Composante Spatiale Optique-1)

July?? Soyuz 2-1A [Soyuz MS](#) 13 (S60/61)  
 CDR: **Скворцов** (Alexander **Skvortsov**), Luca **Parmitano** (ESA), Andrew **Morgan** (NASA)

July?? [CZ-3C](#) Beidou 3 I3Q  
 July?? H-2B (F9) HTV8

**Aug28.** [Soyuz-2 1A](#) **Soyuz GVK** 80

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

?? [Delta IV](#) GPS IIIA-3

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

Late - inaugural flight - Vega-C - Kourou ZLV

Oct?? Soyuz 2-1A [Soyuz MS](#) 14 (S61/62)  
 ??CDR: **Борисенко** (Andrei Borisenko), **Чуб**,(Nikolai Chub), Christina **Koch**

Oct?? [CZ-3B](#)/YZ-1 Beidou 3 MEO M19, Beidou 3 MEO M20  
 Oct?? [Soyuz-2](#) 1B /[Fregat](#)-M [Gonets](#) x 3 (No 27,28,29)  
 Oct?? [Soyuz-2](#) 1B /[Fregat](#)-M Resurs N°5  
 Oct?? [Falcon 9](#) FT [Dragon](#) SpX-19

?? [Ariane 5](#) JCSat 17

**Nov08.** [Proton-M](#) **MLM**

Nov?? [Falcon 9](#) USCV-3 (US Commercial Vehicles)  
 CDR: ??(NASA), ??(NASA), ??(RF)

?? [Soyuz-2](#)-1B/[Fregat](#)-M Glonass K2 / 14  
 ?? [Proton-M](#)/[Briz-M](#) Blagovest 14  
 ?? [Falcon 9](#) GPS IIIA-4  
 ?? [Vega](#) Seosat (Ingenio)  
 ?? [Vega](#) - C ??

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 60

?? [Atlas 5](#) 551 AFSPC-7 (X-37B OTV 6)

?? [Falcon 9](#) Astrium active SARah satellite  
 ?? [Atlas 5](#) 551 Asteroid Retrieval Spacecraft (ARS)  
 ?? ?? EX-3  
 ?? [Falcon 9](#) GiSat-1

?? [Ariane 5](#) ECA Eutelsat BB4A (African Broadband Satellite)  
 ?? [Ariane 5](#) ECA Intelsat 39



# Blog Gorana Hudeca

??	<a href="#">Ariane 5</a> ECA	Star One D2	
??	<a href="#">Vega</a>	OpSis	
??	<a href="#">Vega</a>	Falcon Eye 1	
??	<a href="#">Vega</a>	Falcon Eye 2	
??	<a href="#">Proton-M/Briz-M</a>	SkyTerra 2	
??	<a href="#">Proton-M/Briz-M</a>	Luch 5M	
??	<a href="#">Proton-M/Briz-M</a>	Yenisey A1	
??	<a href="#">Soyuz-2 1B /Fregat-M</a>	<a href="#">Glonass-M</a> 61	
??	<a href="#">Proton-M/ DM-03</a>	<a href="#">Glonass-M/</a>	56,57,58
??	<a href="#">Soyuz-2 1B /Fregat-M</a>	Glonass K1 / 17	
??	<a href="#">Proton-M/ DM-03</a>	<a href="#">Glonass-M/K18,K19,K20</a>	
??	<a href="#">Proton-M/ DM-03</a>	<a href="#">Glonass-M/K21,K22,K23</a>	40
??	<a href="#">Soyuz-2 1B /Fregat-M</a>	Glonass K1 / 16	
??	<a href="#">Proton-M/ DM-03</a>	<a href="#">Glonass K</a>	
??	<a href="#">Proton-M/Briz-M</a>	Ямал-501	
??	<a href="#">Proton-M/Briz-M</a>	EutelSat	
??	<a href="#">Proton-M/Briz-M</a>	IntelSat	
??	<a href="#">Soyuz-2-1B/Fregat M</a>	Meridian 19L	
??	<a href="#">Soyuz-2-</a>	Razdan 1	
??	<a href="#">Angara 1.2</a>	Kosmos	
??	<a href="#">Proton-M/Briz-M</a>	Kosmos	
??	<a href="#">Proton-M/Briz-M</a>	Ямал-GK-1	
??	<a href="#">Proton-M/Briz-M</a>	Anik G2V	
??	<a href="#">Proton-M</a>	PTK NP	
??	<a href="#">Soyuz-2-1B</a>	Obzor R -1	
??	<a href="#">Soyuz-2 1A</a>	Energiya-100	
??	<a href="#">Soyuz-2-1B</a>	Pion	
??	<a href="#">Soyuz-2-1B/ Fregat-M</a>	Glonass K2	
??	<a href="#">Soyuz-2-1B/Fregat</a>	Glonass K2	
??	<a href="#">Proton-M/ DM-03</a>	<a href="#">Glonass-M</a>	
??	<a href="#">Soyuz-2-1B</a>	Arktika	
??	<a href="#">Soyuz-2 1B /Fregat-M</a>	Resurs №4	20
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Kondor-FKA n.º 1	
??	<a href="#">Soyuz-2 1B /Fregat-M</a>	Tundra 3	
??	<a href="#">Soyuz-2 1B /Fregat-M</a>	Tundra 4	
??	<a href="#">CZ-5</a>	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	
??	<a href="#">CZ-4B</a>	HY-2D Haiyang-2D	
??	CZ	Sun Fixed-Point Observation	
??	<a href="#">CZ-4B</a>	HY-2C Haiyang-2C	
??	CZ	CBERS-SAR 1	



# Blog Gorana Hudeca

??            ??            Hainan-1 (1)  
 ??            ??            Hainan-1 (2)  
 ??            ??            Hainan-1 (3)

??            [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

??            [Unha-3](#)            Kwangmyŏngsŏng-5

127

## 2020.

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

**Feb05.**            [Atlas 5](#)            [Solar Orbiter \(SoI0\)](#) (ESA)

Feb??            H-2B (F10)            HTV9  
 Feb??            [Soyuz-2](#)            [Progress MS](#) 13

??            [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

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 Vechile)  
 ??            CZ-2F/G            SZ-12 Shenzhou-12  
 ??            [Vega](#) CCERES (x3)

May??            Soyuz 2-1A            [Soyuz MS](#) 15 (S62/63)  
 CDR: **Рыжиков** (Sergei Ryshikov), Jessica **Meir** (NASA), Soichi **Noguchi** (JAXA)

May??            [Atlas 5](#) 402            USCV-4 (US Commercial Vehicles)  
 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)





# Blog Gorana Hudeca

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)

**July16 Ariane 62 Galileo-FOC FM23, Galileo-FOC FM24**

**July17. [Atlas 5](#) (541) [Mars 2020 rover](#)** NASA's exit from a joint sample-collection campaign with Europe aims to send a \$700 million mission to the red planet in 2018 or 2020. The replanned Mars mission, referred to in budget documents as Mars Next Generation, will carry a price tag that falls somewhere between that of the 2013 Maven Scout mission and the 2005 Mars Reconnaissance Orbiter, which cost \$485 million, and more than \$720 million, respectively.

**July24. [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 2018. 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](#) 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

Oct?? Vega Proba 3

Nov?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-5 (US Commercial Vehicles)  
 Nov?? [Soyuz-2](#) [Progress MS](#) 15  
 Nov?? Soyuz 2-1A [Soyuz MS](#) 16 (S63/64)

**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).

?? ?? SWOT  
 ?? ?? PACE  
 ?? ?? EX-4  
 ?? ?? ACE  
 ?? ?? HypsIRI  
 ?? 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)



# Blog Gorana Hudeca

??	<a href="#">Proton-M</a>	HƏM-1
??	<a href="#">Soyuz-2</a> 1a / <a href="#">Fregat</a>	Luna 25 (Luna-Glob-1)
??	<a href="#">Soyuz-2-1B/ Fregat</a> -M	Glonass M 55
??	<a href="#">Soyuz-2-1B/Fregat</a> -M	<a href="#">Glonass-M/</a> 53
??	<a href="#">Soyuz-2-1B/Fregat</a>	Glonass M/ 58
??	<a href="#">Soyuz-2-1B/Fregat</a>	Glonass M / 59
??	<a href="#">Soyuz-2-1B/Fregat</a> -M	<a href="#">Resurs PM - 1</a>
??	<a href="#">Soyuz-2-1B/Fregat</a> -M	Meteor M No2-3
??	<a href="#">Angara</a> 1.2	Kompsat-6
??	<a href="#">Soyuz-2-1A/Fregat</a> -M	<a href="#">Gonets</a> x 6
??	<a href="#">Proton-M/Briz-M</a>	AOneSat-1
??	<a href="#">Proton-M/Briz-M</a>	Terrestar-2
??	<a href="#">Proton-M/Briz-M</a>	SkyTerra 2
??	<a href="#">Proton-M/Briz-M</a>	Ekspress AMU 3 / Ekspress AMU 7
??	<a href="#">Soyuz-2-1A/Fregat</a>	Resonance 1A, Resonance 1B
RESONANCE is a project to study Earth's magnetosphere consisting of four similar satellites.		
??	<a href="#">Soyuz-2-1B</a>	Lotos S1
??	<a href="#">Soyuz-2-1B</a>	Persona
??	<a href="#">Soyuz-2-1A</a>	Kobalt M
??	<a href="#">Soyuz-2-1A</a>	Foton M
??	??	Zond
??	??	MKA PN6 (Monika)
??	??	Картограф-ОЭ №1
??	<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
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x32)
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x32)
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x32)
??	<a href="#">Vega</a> C Cosmo-SkyMed Secon Gen 2	CSG-2
??	<a href="#">CZ-5</a>	Chang'e-6
??	CZ	Two Meter Space Telescope
??	CZ	FY-4C Fengyun-4C
??	CZ	HY-3B Haiyang-3B
??	<a href="#">CZ-3B/</a> Palapa 1N	
??	??	Hainan-1 (4)
??	??	Hainan-1 (5)
??	??	Hainan-1 (6)
??	??	Sanya-1 (1)
??	??	Sanya-1 (2)



# Blog Gorana Hudeca

??	<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

## 2021.

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

**Mar30.** [Soyuz-2-1A](#) [Soyuz MS 17](#)  
 Cdr: xx, Akihiko **Hoshide**, xx

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

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

May?? [Atlas 5](#) 402 / [Falcon 9](#) USCVC-6 (US Commercial Vehicles)

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)
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 17</a>
??	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

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

Sep?? [Soyuz ST](#) B/[Fregat](#)-MT MetOp-SG A1/EPS-SG-a/Sentinel-5A

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

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

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

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

??	<a href="#">Falcon 9</a>	GPS IIIA-6
??	<a href="#">Falcon 9</a>	GPS IIIA-7
??	<a href="#">Falcon 9</a>	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



# Blog Gorana Hudeca

??	<a href="#">Proton-M/Briz-M</a>	Ekspress-RV1, Ekspress-RV2
??	<a href="#">Proton-M/Briz-M</a>	Ekspress AMU 4
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Smotr R №1
??	<a href="#">Proton-M/Briz-M</a>	IntelSat
??	<a href="#">Proton-M/Briz-M</a>	Elektro L - 4
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Arktika M 2
??	<a href="#">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="#">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
??	CZ	Venus Global Sensing Probe
??	CZ	FY-3G Fengyun-3G (Batch 2)
??	??	Sansha-1 (1)
??	??	Sansha-1 (2)

## 2022.

Jan?? ?? Solar Sentinels

?? [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

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

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

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

June?? Ariane 5 MTG-I2

?? Sunkar ??  
 ?? [Soyuz-2](#) [Progress MS 20](#)

Aug?? H2B Phobos sample return

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

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



# Blog Gorana Hudeca

Dec??	<a href="#">Soyuz ST B</a> / <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="#">Soyuz-2</a> 1a / <a href="#">Fregat</a>	<a href="#">Luna 26</a> (Luna-Resurs OA)
??	<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</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="#">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
<b>2023.</b>		
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 22
<b>Mar30.</b>	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS</a> 21
??	CZ7	TZ 5 Tianzhou 5 (Logistic Cargo Vechile)
??	CZ-2F/G	SZ-16 Shenzhou-16
May??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-10 (US Commercial Vehicles)
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 23
??	<a href="#">Ariane 5</a>	MTG-S2/Sentinel-4A
<b>Sep30.</b>	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS</a> 22
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 24
Nov??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-11 (US Commercial Vehicles)
??	SLS Block IA II	Orion: Exploration Mission 3 (Crew to Cislunar)
??	Sunkar Federatsia (unmaned flight to ISS)	





# Blog Gorana Hudeca

?? 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

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

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

May?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-12 (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

?? [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, Gonara M



# Blog Gorana Hudeca

??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Arktika M 4
??	??	Ямал GK VEO 1
??	<a href="#">Soyuz-2-1A</a>	Obzor P -1
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Razdan - 3
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	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)
??	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS</a> 25
??	SLS Block I	Europa Clipper
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Resonans 2A, 2B, MKA-PN5
??	??	Ямал GK VEO 2
??	??	Ямал GK VEO 3
??	<a href="#">Angara 1.2</a>	<a href="#">Gonets</a> x 3
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Arktika M 5
??	<a href="#">Soyuz-2-1B</a>	Obzor O -2
??	<a href="#">Soyuz-2-1B</a>	Bion-M No. 3
??	CZ	Chang'e-7 (Moon south pole landing)

## 2026.

June??	<a href="#">Angara</a> A5P/KVTK	A mission to Venus ( <i>Venera D</i> ) would be launched
??	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>
----	----	--------------------------------------