



## Blog Gorana Hudeca

### Predstojeća lansiranja u Svemir (21.8.2018.)

2018.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in red. Last change 21.Aug.2018.

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

**Aug26. 0333UTC** [Falcon 9](#) [Telstar 18](#)  
Launch site: [Cape Canaveral](#), USA

**Aug25.** [CZ-3B/YZ-1](#) **Beidou 3 MEO M9, Beidou 3 MEO M10**

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

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

**Sep07. 2156UTC** [Ariane 5 ECA \(VA243\)](#) [Azerspace 2 \(Intelsat 38\)](#) / **Horizon 3e**  
Launch site: [Kourou](#), French Guiana

**Sep10. 2232UTC** **H-2B (F7)** **HTV7**

**Sep15. 1246UTC** **Delta II 7320-10C** **ICESat-II**  
Launch site: [Vandenberg](#), USA

**Sep15.** [PSLV](#) C42 **SSTL-S1 & NovaSAR-S**

**Sep20.** **KZ-1A** **Y08** **CentiSpace-1 S1** 80

**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

**Sep29.** [Falcon 9](#) **SAOCAM-1A**  
Launch site: [Vandenberg](#), USA

**Sep??** [CZ-4B](#) [Haiyang-1C](#) HY-1C  
Launch site: [Taiyuan](#), China

Sep?? [CZ-11](#) CAS-6  
**Sep??** [CZ-3B/YZ-1](#) Beidou 3 MEO M11, Beidou 3 MEO M12

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

**Oct05. 0307UTC** [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



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- Oct18.**            **ZQ-1**                    **CCTVSat**
- 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
- Oct29.**            **[CZ-2C](#)**                                **CFOSAT (China-France Oceanography SATellite)**
- 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??            [Soyuz-2-1B/Fregat-M](#) [Glonass-M](#) 60  
Oct??            [GSLV](#) MK III    D2    GSAT-29  
**Oct??**            [CZ-3B/YZ-1](#)                    Beidou 3 MEO M13, Beidou 3 MEO M14  
**Oct??**            CZ-4B                                HY-2B Haiyang-2B
- ??                [Falcon 9](#)                                [Iridium Next](#) Flight 8 (x10)  
Launch site: [Vandenberg](#), USA                                60
- Nov07.**            **0047UTC**    **[Soyuz ST B/Fregat-M VS19](#)**                    **MetOp-C**
- Nov21.**            **[Antares 230](#)**                    **[Cygnus Orb-10E](#)**
- Nov29.**            **[Falcon 9 FT](#)**                    **[Dragon SpX-16](#)**
- Nov30.**            **[Ariane 5](#)**                                **[GSAT-11](#)**
- Nov??            [Falcon 9](#)                                Radarsat C-1, -2, C-3  
Launch site: [Vandenberg](#), USA
- Nov??** [Electron](#)                    Outernet 1, Lemur  
Launch site: [Kaitorete Spit](#), New Zeland
- Nov??**            [Falcon 9](#)                                Spaceflight SSO-A  
Launch site: [Vandenberg](#), USA
- Nov??            [Soyuz-2-1B](#)                                EgyptSat A  
Nov??            [Ariane 5](#) ECA                                Hellas-Sat-4  
Nov??            [Falcon 9](#) (SPx-DM1)                    Dragon v2 unmanned test  
**Nov??**            [Falcon 9](#)                                Es'hail 2  
**Nov??**            [PSLV](#)    C43                                Cartosat-3  
**Nov??**            [CZ-3B/YZ-1](#)                                Beidou 3 MEO M15, Beidou 3 MEO M16
- ??                [Epsilon](#) (4)                    Inovative Technology Demonstration Satellite – 1, OrigamiSat-1  
Launch site: [Tanegashima](#), Japan
- ??                [Ariane 5](#) ECA                    GEO-KOMPSAT-2A                    (GK2A, Cheollian 2A)
- Dec06.**            **[Soyuz-2-1B/Fregat-M](#)**                    **Meteor M-2-2, Ionosfera 3, Ionosfera 4**
- Dec14.**            **[Soyuz ST B/Fregat-MT \(VS20\)](#)**                    **Cosmo-SkyMed Secon Gen 1**    **CSG-1**



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**Dec15.**      **Ariane 5**      **GSAT-31**

**Dec20. 0452UTC**      **Soyuz-2 1A**      **Soyuz MS 11 (S58/59)**  
**CDR:** Олэг Дмíтриевич Кононѐнко (Oleg Dmitrievich Kononenko), Anne McClain (NASA), David Saint-Jaques

**Dec22.**      **Proton-M/Briz-M**      **Blagovest 13**      **40**

**Dec26.**      **Soyuz-2 1A** / **Fregat Kanopus V 5, Kanopus V 6**

Dec??      **Vega** (VV13)      **Prisma**  
 Launch site: **Kourou**, French Guiana

Dec??      **Electron**      ELaNa XIX  
 Launch site: **Kaitorete Spit**, New Zeland

Dec??      **CZ-3B/GIII**      Chang'e-4 (Moon far side Aitken Basin lander/rover)  
 Dec??      **Soyuz-2-1B/Fregat M**      Meridian 18L  
 Dec??      **Soyuz-2-1B/ Fregat-M**      Glonass K 15  
 Dec??      Minotaur 1      NROL 111  
 Dec??      **Falcon Heavy**      STP-02  
 Dec??      **Falcon 9**      GPS III-1  
 Dec??      **PSLV C44**      RISAT 1A

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

??      Minotaur-4      FORMOSAT-7 (6 sat)  
 ??      **Atlas 5**      AEHF 5  
 ??      **Falcon 9**      OHB SARah satellite (x2)

??      **Soyuz-2 1B /Fregat-M**      Neutron (Kosmos)  
 ??      **Angara A5/ Briz-M**      Kosmos (Repei)

??      **Vega**      MN35-13 B **Morocco EO Sat 1 2**

??      ??      Taurus-1  
 Launch site: **Taiyuan**, China

??      **CZ-2D**      GF-7 Gaofen-7      **20**  
 ??      CZ??      Tianzhi-1  
 ??      **CZ-11**      LOVEcho  
 ??      **CZ-11**      Fengtai Shaonian-02  
 ??      **CZ-2D**      NuSat6, 7, 8  
 ??      **CZ-2D**      SaudiSAT 5B

??      KZ-1A      Jilin 1-09  
 ??      KZ-1A      Jilin 1-10  
 ??      KZ-1A      Jilin 1-11  
 ??      KZ-1A      Jilin 1-12

??      **KZ-11**      **Xiaoxiang-4**

??      **CZ-3C**      Tianlian-2 TL-2  
 ??      **CZ-3C**      **Beidou 3** G8



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??	<a href="#">CZ-4B</a>	<a href="#">ZY-3 Ziyuan-3</a>
??	<a href="#">CZ-4B</a>	HY-1D Haiyang-1D
??	<a href="#">CZ-2D</a>	<a href="#">Jilin-2 JL-2</a>
??	<a href="#">CZ-2D</a>	<a href="#">Jilin-3 JL-3</a>
??	CZ	Huaizong-1
??	CZ	YG-32 <a href="#">Yaogan Weixing</a> 32

?? [LS-1](#) LandSpace-1 (China)

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

15 + 12  
65 + 89

## 2019.

Jan??	<a href="#">Falcon H</a>	Arabsat 6A
Jan??	<a href="#">CZ-5 Y3</a>	SJ-18 02 (DFH-5 platform)
Jan??	<a href="#">Delta IV-M</a> (5,4)	WGS 10

?? [Atlas 5](#) N22 (AV80) CST-100 Starliner (unmanned test)

??	<a href="#">Falcon 9</a>	PSN VI
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	CHEOPS (Characterising ExOPlanet Satellite)
??	<a href="#">CZ-11</a>	Zhuhai-1 Group-3

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

Feb??	<a href="#">CZ-3C</a>	Beidou 3 I1Q
Feb??	<a href="#">Atlas 5</a> 551 (AV-086)	AEHF-6
Feb??	<a href="#">Proton-M/Briz-M</a>	Ямал-601

?? [Soyuz-2-1B](#) Arktika M 1  
Launch site: Восточный (Vostochniy), Cosmodrome, Russia 120

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

??	<a href="#">Vega</a>	SSMS POC (Small Spacecraft Mission Service Proof Of Concept)
??	<a href="#">CZ-3B/E</a>	Apstar-6D
??	<a href="#">Ariane 5</a> ECA	Eutelsat 7C
??	<a href="#">Electron</a>	Outernet 2,3
??	<a href="#">GSLV</a> MK II F12	GSAT-7A

Mar??	<a href="#">Falcon 9</a>	GPS IIIA-2
Mar??	<a href="#">Falcon 9</a>	<a href="#">Dragon</a> SpX-17
Mar??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x10)
Mar??	<a href="#">Proton-M/Briz-M</a>	EutelSat 5 West B / MEV

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



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**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.

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

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

Apr??	??	GOES-T	
Apr??	<a href="#">CZ-3B/E</a>	Nicasat 1	
Apr??	<a href="#">CZ-3C</a>	Beidou 3 I2Q	100
Apr??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 12</a>	

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

May??	CZ	CBERS-4A
May??	<a href="#">Ariane 5</a> ECA	EDRS-C (Hylas 3)

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

June??	<a href="#">Atlas 5</a> 551	STP-03
June??	<a href="#">CZ-5 B</a>	Test flight

??	<a href="#">CZ-3B/G2</a>	TECSTAR 1
??	SSLV	??
??	<a href="#">Soyuz ST</a> B/Fregat-MT	<a href="#">O3b</a> (FM17-20)
??	<a href="#">GSLV</a> MK II    F10	GISAT
??	<a href="#">Ariane 5</a>	Inmarsat-5 F5
??	<a href="#">Ariane 5</a> ECA	Eutelsat Quantum
??	<a href="#">Soyuz ST</a> B/Fregat-MT	CSO 1 (Composante Spatiale Optique-1)
??	<a href="#">Ariane 5</a> ECA	Intelsat 39

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

July??	<a href="#">CZ-3C</a>	Beidou 3 I3Q
July??	H-2B (F9)	HTV8

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

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

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

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

??      [Delta IV](#)      GPS IIIA-3



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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 №5

Oct?? [Falcon 9](#) FT [Dragon](#) SpX-19

?? [Atlas 5](#) 402 CST 100 Starliner (USCV-2)

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

?? [Ariane 5](#) JCSat 17

?? [Ariane 5](#) ECA GEO-KOMPSAT-2B , Cheollian 2B

## Nov08.

### [Proton-M](#)

### MLM

?? [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

60

Dec?? [Proton-M](#)/[Briz-M](#)

Ekspress 80, Ekspress 103

Dec?? [Soyuz-2](#) 1B /[Fregat](#)-M CAS500-1

?? [Atlas 5](#) 551

AFSPC-7 (X-37B OTV 6)

?? [Falcon 9](#)

Astrium active 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

Star One D2

?? [Vega](#)

OpSis

?? [Vega](#)

Falcon Eye 1

?? [Vega](#)

Falcon Eye 2

?? [Proton-M](#)/[Briz-M](#)

SkyTerra 2

?? [Proton-M](#)/[Briz-M](#)

Luch 5M

?? [Proton-M](#)/[Briz-M](#)

Yenisey A1

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

?? [Proton-M](#)/ DM-03 [Glonass-M](#)/ 56,57,58

?? [Soyuz-2](#) 1B /[Fregat](#)-M Glonass K1 / 17

?? [Proton-M](#)/ DM-03 [Glonass-M](#)/K18,K19,K20

40

?? [Proton-M](#)/ DM-03 [Glonass-M](#)/K21,K22,K23

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

?? [Proton-M](#)/ DM-03 [Glonass K](#)

?? [Proton-M](#)/[Briz-M](#) Ямал-501



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??	<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	20
??	<a href="#">Soyuz-2 1B /Fregat-M</a>	Resurs №4	
??	<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	
??	??	Hainan-1 (1)	
??	??	Hainan-1 (2)	
??	??	Hainan-1 (3)	
??	<a href="#">CZ-2D</a>	SJ-12 Shijian-12 (2)	
??	<a href="#">CZ-2D</a>	TH-2 Tianhui-2	
??	<a href="#">CZ-2C</a>	CSES-1 Earthquake electromagnetism monitor satellite	20
??	??	VeneSat-2	
??	<a href="#">CZ-3B/E</a>	CC-1 <a href="#">Changcheng-1</a>	
??	CZ	Deep Space Solar Observatory	
??	CZ-2	CAS-2A1, CAS-2A2	
??	<a href="#">CZ-3B/E</a>	CongoSat 1	
??	CZ	FY-3E Fengyun-3E	
??	CZ	FY-4B Fengyun-4B	



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- ?? CZ-?? [CAS-4A, CAS-4B](#)  
 Launch site: [Taiyuan](#), China
- ?? CZ Orbita-1 1
- ?? [GSLV](#) MK II F11 GSAT-10A  
 Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India
- ?? [PSLV](#) ScatSat, NovaSAR
- ?? [Safir 1 B](#) Tadbir  
 ?? Safir 3A Pars sepher

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## 2020.

- Jan?? [Falcon 9](#) [Dragon](#) SpX-20
- Feb05.** [Atlas 5](#) [Solar Orbiter \(Solo\)](#) (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
- ?? [Falcon 9](#) USCV-3 (US Commercial Vehicles)  
 CDR: ??(NASA), ??(NASA), ??(RF)
- ?? 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?? [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)





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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.

**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 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

?? [Atlas 5](#) 402 USCV-4 (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  
 ?? ?? HypIRI  
 ?? Antares IMAP/STP-05

?? [Falcon 9](#) FT [Dragon](#) SpX-22  
 ?? [Antares](#) 230 [Cygnus](#) OA-12

?? [Falcon H](#) ViaSat 3



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??	<a href="#">Falcon 9</a>	KPLO (Korea Pathfinder Lunar Orbiter)
??	<a href="#">Proton-M</a>	HƏM-1
??	<a href="#">Soyuz-2 1a / Fregat</a>	Luna 25 (Luna-Glob-1)
??	<a href="#">Soyuz-2-1B/ Fregat-M</a>	Glonass M 55
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	<a href="#">Glonass-M/ 53</a>
??	<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-M</a>	<a href="#">Resurs PM - 1</a>
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Meteor M No2-3
??	<a href="#">Angara 1.2</a>	Kompsat-6
??	<a href="#">Soyuz-2-1A/Fregat-M</a>	<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)
??	??	Картораф-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 B/Fregat-MT</a>	OneWeb smalsat (x32)
??	<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> 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/ Palapa</a> 1N	
??	??	Hainan-1 (4)
??	??	Hainan-1 (5)
??	??	Hainan-1 (6)
??	??	Sanya-1 (1)
??	??	Sanya-1 (2)



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??	<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-5 (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</a> 17
??	CZ-2F/G	SZ-14 Shenzhou-14
??	Ariane 62	Galileo-FOC FM25, Galileo-FOC FM26

July?? Vulcan/Minotaur 6/[Falcon 9](#) v1.1 JPSS-2  
July?? [Vega](#) C Biomass

**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-6 (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



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??	<a href="#">Angara 1.2</a>	<a href="#">Gonets</a> x 3
??	<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
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 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)
??	<a href="#">CZ-5 B</a>	Mengtian Lab module Space station module
??	CZ-2F/G	SZ-15 Shenzhou-15

May?? [Atlas 5](#) 402 / [Falcon 9](#) USCV-7 (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 ??	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 20

Aug?? H2B Phobos sample return

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



# Blog Gorana Hudeca

Nov??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-8 (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="#">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-9 (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-10 (US Commercial Vehicles)
??	SLS Block IA II	Orion: Exploration Mission 3 (Crew to Cislunar)
??	Sunkar Federatsia (unmaned flight to ISS)	



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?? 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-11 (US Commercial Vehicles)

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

Oct?? EELV GOES-U

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

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

?? [Soyuz-2](#) [Progress MS](#) 25

?? [Soyuz-2](#) [Progress MS](#) 26

?? [Soyuz-2](#) [Progress MS](#) 27

?? [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



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??	<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>
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