



## Blog Gorana Hudeca

### Predstojeća lansiranja u Svemir (16.10.2017.)

2017.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in red. Last change 16.Oct.2017.

**Oct20.**      [Electron](#)      [Still Testing](#)

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

**Oct25.**      [Soyuz-2-1B](#)      **Labirint 11** (Elint??)

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

**Oct30.**    **1934UTC**      [Falcon 9](#) FT      [KoreaSat 5A](#)

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

**Oct??**    [Minotaur-C](#) XL    [SkySat](#) 8/9/10/11/12

Launch site: [Vandenberg](#), USA

??      [Rokot / Briz KMGeo IK 2](#)

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

**Nov08.**      **0142UTC**      [Vega](#) (VV11)      MN35-13 ([Morocco EO Sat 1](#))

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

**Nov10.**    **0947UTC**    [Delta II 7920-10C](#)    [JPSS-1](#)

Launch site: [Vandenberg](#), USA

**Nov10.**      **1203UTC**      [Antares 230](#)      [Cygnum](#) Orb-8

Launch site: [Wallops Island](#), USA 40

**Nov12.**      [CZ-3B/YZ-1](#)      [Beidou 3](#) M1& M2

Launch site: [Xichang](#), China

**Nov15.**      [CZ-4C](#)      **FY-3 Fengyun-3 D**

Launch site: [Jiuquan](#), China

**Nov28.**      [Soyuz-2-1B/Fregat-M](#)      **Meteor M-2-1, two MKA N, Ionosfera 1, Ionosfera 2**

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

**Nov28.**      **2100UTC**      [Falcon 9](#) FT      [Dragon](#) SpX-13

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

Nov??      [Falcon 9](#) FT      [Iridium Next](#) Flight 4 (x10)

Launch site: [Vandenberg](#), USA

Nov??      [PSLV](#) XL (C40)      CartoSat 2E

Nov??      CZ-11      Jilin(x2), Fengtai Shaonian 02

**Nov??**      **CZ-6**      HY-3A Haiyang-3A

??      [Rokot / Briz KM](#)      [Gonets](#) x 3 (No 24,25,26), Blits-M

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

??      Epsilon (3)      ASNARO 2



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Launch site: [Tanegashima](#), Japan

30

**Dec07. Zenit 3-SLB / DM-SLB AngoSat**

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

**Dec08. 1528UTC Pegasus-XL ICON (Helio EX-1)**

**Dec12. Ariane 5 ES (VA240) Galileo-FOC FM15 (Nicole), Galileo-FOC FM16 (Zofia), Galileo-FOC FM17 (Alexandre), Galileo-FOC FM18 (Irina)**

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

**Dec13. Delta IV-M+(5,2) NROL-47 (Topaz 5)**

Launch site: [Vandenberg](#), USA

**Dec17. 0400UTC Soyuz-2 1A Soyuz MS 7 (S54/55)**

CDR: АНТОН НИКОЛАЕВИЧ Шкаплеров ([Anton N. Shkaplerov](#)), Norishige **Kanai**, Scott **D. Tingle**

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

**Dec22. Soyuz-2 1A / Fregat Канopus V 3, Канopus V 4**

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

**Dec25. Proton-M/Briz-M Blagovest 12**

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

Dec??	<a href="#">CZ-2D</a>	GJ-3 GaoJing-3, GJ-4 GaoJing-4	
Dec??	Falcon H	Demo Flight	
Dec??	<a href="#">GSLV</a> Mk II F8	GSAT 6A	20
Dec??	<a href="#">Falcon 9</a>	Hispasat 30W-6 (1F)	

?? [CZ-11](#) TY-2, 3, 4, 5 [Tianyi](#)  
Launch site: [Jiuquan](#), China

?? CZ-6 Jilin-1-04 (Lingqiao 1-04), Jilin-1-05 (Lingqiao 1-05), Jilin-1-06 (Lingqiao 1-06), Jilin-1-07 (Lingqiao 1-07)

?? [CZ-3B/YZ-1](#) ZX-6C Zhongxing-6C  
Launch site: [Xichang](#), China

?? [CZ-3A](#) FY-2H Fengyun-2H  
?? [CZ-2D](#) GF-6 Gaofen-6

?? CZ-2 CAS-2A1, CAS-2A2  
?? CZ YG-32 Yaogan Weixing 31  
?? CZ YG-32 Yaogan Weixing 32  
?? CZ Orbita-1 1 10

?? [CZ-2D](#) SaudiSAT 5B  
?? ?? LJ-1 Luojia-1  
?? CZ Huaizong-1  
?? [CZ-4C](#) Hede-1  
?? [CZ-3B/E](#) Alcomsat-1  
?? LS-1 LandSpace-1

?? [H-2A](#) (F37) GCOM-C  
?? [H-2A](#) [IGS Optical-6](#)



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?? [Simorgh](#) [Dosti](#) (Nahid 1??) (Payam-e Amir Kabir??)

Launch site: [Semnan](#), Iran

15 + (6)  
69 + (47)

## 2018.

**Jan10.** [Zenit 3 SL](#) / [Fregat-SB](#) **Lybid'**

**Jan18.** [Atlas 5](#) 401 (AV076) **SBIRS-GEO 4**

**Jan20.** [Vega](#) (VV11) **Aeolus / ADM**

**Jan23.** [Ariane 5](#) ECA (VA241) **Al Yah 3 / SES 14 GOLD**

**Jan30.** [Falcon 9](#) FT **PAZ**

Jan?? [Falcon 9](#) SES-16

?? [Falcon 9](#) FT [Iridium Next](#) Flight 5 (x10)

Launch site: [Vandenberg](#), USA

160

?? [Soyuz-2-1B/Fregat-M](#) [Glonass-M/](#) 52

?? [PSLV](#) ScatSat, NovaSAR

**Feb01.** [CZ-2D](#) **ZH-1 Zengheng 1** ([ESEM experimental satellite on Electromagnetism Monitoring](#)), **Ministar-1, Fengmaniu-1**

**Feb09.** [Falcon 9](#) FT [Dragon](#) SpX-14

**Feb13.** [Soyuz-2](#) 1A [Progress](#) MS 8

**Feb20.** **CZ** **Taurus-1**

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

Feb?? H-2B (F7) HTV7

Feb?? [Falcon 9](#) FT Bangabandhu-1

Feb?? [Falcon 9](#) FT ORS-6

?? [Soyuz-2-1B/Fregat-M](#) Meteor M-2-2, Ionosfera 3, Ionosfera 4

?? [Soyuz ST](#) B/Fregat-MT O3b

?? [Soyuz-2-1B](#) Pion

?? [CZ-3B/YZ-1](#) [Beidou 3](#) MEO M3, [Beidou 3](#) MEO M4

?? [CZ-3B/YZ-1](#) [Beidou 3](#) MEO M5, [Beidou 3](#) MEO M6

**Mar01.** [Atlas 5](#) (541) **GOES-S**

**Mar06.** [PSLV](#) C41 **Team Indus Lunar Lander/ Rover, Team Hakuto Rover**

**Mar10.** [Soyuz-2](#) 1A [Soyuz MS](#) 8 (S55/56)

CDR: Олег Германович **Артемьев** (O. G. **Artemyev**), Andrew J. **Feustel**, Ricky R. **Arnold**

**Mar15.** [CZ-3B/GII](#) **APStar-6C**

**Mar18.** [Falcon 9](#) **TESS** 140



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## Mar21. [Falcon 9](#)

## [Iridium Next Flight 6 \(x10\)](#)

Mar??	<a href="#">GSLV</a> Mk II D9	Chandrayaan 2
Mar??	<a href="#">CZ-3B/YZ-1</a>	Beidou 3 MEO M11, Beidou 3 MEO M12
Mar??	<a href="#">Rokot / Briz KM</a>	Sentinel 3B
Mar??	<a href="#">Soyuz ST</a> B/Fregat-MT	OneWeb smalsat (x10)
Mar??	<a href="#">Ariane 5</a> ECA	Hylas 4
Mar??	CZ-2C	Pakistani Remote Sensing Satellite (PRSS) 1

??	<a href="#">GSLV</a> MK III D2	GSAT-20
??	KZ-1A	??
??	KZ-1A	??
??	KZ-1A	??
??	KZ-1A	??
??	<a href="#">Falcon 9</a> FT	SES-12
??	<a href="#">Ariane 5</a> ECA	Azerspace 2 (Intelsat 38)
??	<a href="#">Ariane 5</a> ECA	GSAT-11
??	<a href="#">Proton-M/ DM 3</a>	Kosmos
??	SS-520-4	Tricom-1R

## Apr01. [Falcon 9 \(SPx-DM1\)](#) [Dragon v2](#) unmanned test

## Apr18. [Atlas 5 551 \(AV81\)](#) [AFSPC-11](#) 120

## Apr25. [Soyuz-2 1A](#) [Soyuz MS 9 \(S56/57\)](#) CDR: Прокопьев (Sergei V. Prokopyev), Jeanette J. Epps, Alexander Gerst

Apr??	<a href="#">Falcon 9</a> FT	<a href="#">Iridium Next</a> Flight 7 (x10)
Apr??	<a href="#">H-2A</a>	GOSAT-2
Apr??	Epsilon	OrigamiSat-1

??	<a href="#">Falcon 9</a>	Telstar 18
??	<a href="#">Falcon 9</a>	Telstar 19
??	Falcon Heavy	STP-02

## May01. [Antares 230](#) [Cygnus Orb-9E](#)

## May05. [Atlas 5 401](#) [InSight](#) Launch site: [Vandenberg](#), USA

May??	<a href="#">Ariane 5</a> ECA	GEO-KOMPSAT-2A
May??	<a href="#">CZ-3B/YZ-1</a>	Beidou 3 MEO M13, Beidou 3 MEO M14

## June06. [Falcon 9](#) FT [Dragon SpX-15](#)

## June13. [Soyuz-2 1A](#) [Progress MS 9](#)

June??	CZ	L2 Chang'e 4 communications relay satellite	
June??	<a href="#">Falcon 9</a> FT	<a href="#">Iridium Next</a> Flight 8 (x5), GRACE FO_1, FO_2	June?? <a href="#">Falcon 9</a> FT
??	SAOCAM 1A		

??	<a href="#">GSLV</a> MK II F11	GSAT-10A
Launch site:	<a href="#">Satish Dhawan Space Centre</a> , Sriharikota, India	

??	<a href="#">Proton-M</a>	PTK NP
??	<a href="#">Vega</a>	TARANIS



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??	<a href="#">Soyuz ST</a>	CSO 1	100
??	<a href="#">Vega</a>	Prisma	
??	<a href="#">Proton-M/Briz-M</a>	Kosmos	
??	<a href="#">Proton-M/ DM-03</a>	<a href="#">Glonass-M/</a>	??
??	<a href="#">Angara A5/ Briz-M</a>	Kosmos	
??	<a href="#">Ariane 5</a> ECA	Hellas-Sat-4	
??	CZ-5 Y3	SJ-18 02	
<b>July31.</b>	<b>Delta 4-H</b>	<b>Parker Solar Probe</b>	
July??	<a href="#">PSLV</a>	Oceansat-3	
July??	<a href="#">Falcon 9</a> FT	Radarsat C-1, -2, C-3	
??	Falcon H	Arabsat 6A	
Aug??	<a href="#">Falcon 9</a> (SPx-DM2)	Dragon v2	
<b>CDR:</b> Eric <b>Boe</b> , <b>Sunita Williams</b>			
Aug??	<a href="#">Atlas 5</a> 422 (AV80)	CST-100 Starliner (unmanned test)	
Aug??	<a href="#">CZ-3C</a>	Beidou 2 I7	
Aug??	<a href="#">Delta IV</a> -M+(4,2)	GPS III-1	
Aug??	<a href="#">Falcon 9</a> FT	<b>Telkom 4</b>	
Aug??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-16	
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x32)	
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Glonass K1 / 16	
??	<a href="#">Atlas 5</a> (531) (AV073)	AEHF-4	
<b>Sep12.</b>	<b>Delta II 7320-10C</b>	<b>ICESat-II</b>	80
<b>Sep15.</b>	<b>Delta 4-H</b>	<b>NROL-71</b>	
<b>Sep30.</b>	<a href="#">Soyuz-2</a> 1A <a href="#">Soyuz MS</a> 10 (S57/58)		
<b>CDR:</b> Алексей Н. <b>Овчинин</b> (Aleksei N. <b>Ovchinin</b> ), Н. <b>Тихонов</b> ( <b>Nikolai Tikhonov</b> ), <b>Tyler Hague</b>			
Sep??	<a href="#">CZ-3B</a> /YZ-1	Beidou 3 MEO M15, Beidou 3 MEO M16	
Sep??	<a href="#">Ariane 5</a> ECA	DSN 1 (Superbird-8)	
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Glonass K1 / 17	
??	<a href="#">Ariane 5</a> ECA	EDRS-C (Hylas 3)	
??	<a href="#">Ariane 5</a> ECA	Intelsat 7C	
??	<a href="#">Falcon 9</a>	GPS IIIA-2	
??	<a href="#">Falcon 9</a>	PSN VI	
<b>Oct05.</b>	<a href="#">Ariane 5</a>	<a href="#">BepiColombo</a> ESA and ISAS Mercury Orbiters	
<b>Oct11.</b>	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 10	
Oct??	<a href="#">Proton-M</a> rocket to launch <b>Spektr-Rentgen-Gamma X-Ray</b> 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.		
Oct??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -M	MetOp-C	



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Oct??	<a href="#">CZ-3C</a>	Beidou 3 G1Q	
Oct??	<a href="#">Proton-M/Briz-M</a>	Elektro L – 3	
Oct??	<a href="#">Antares</a> 230	<a href="#">Cygnus</a> Orb-10E	
Oct??	<a href="#">Falcon 9</a>	<a href="#">Dragon</a> SpX-17	
??	<a href="#">Proton-M/</a> DM-03	<a href="#">Glonass-M/</a> K18,K19,K20	
??	<a href="#">Ariane 5</a> ECA	Intelsat 39	
??	<a href="#">Ariane 5</a>	Horizon 3e	60
??	<a href="#">Falcon 9</a>	<a href="#">GISat-1</a>	

**Nov30.** [Soyuz-2 1A](#) [Soyuz MS 11 \(S58/59\)](#)

**CDR:** Олег ДМИТРИЕВИЧ **Конonenko** (Oleg D. **Kononenko**), Serena **Auñón-Chancellor**, David **Saint-Jaques**

Nov?? [Atlas 5](#) 422 (AV082) CST-100 Starliner  
**CDR:** Douglas **Hurley**, Robert **Behnken**

??	Minotaur 1	NROL 111	
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x32)	
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Glonass K1 / 15	
Dec??	<a href="#">CZ-3B/GIII</a>	Chang'e-4 (Moon far side Aitken Basin lander/rover)	
Dec??	<a href="#">CZ-3B/YZ-1</a>	Beidou 3 MEO M17, Beidou 3 MEO M18	
Dec??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Resurs №4	
Dec??	??	Korean Pathfinder Lunar Orbiter	
Dec??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-18	

??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Glonass K2 / 14	
??	<a href="#">Ariane 5</a>	Heinrich Hertz	
??	Minotaur-4	FORMOSAT-7 (6 sat)	
??	<a href="#">Falcon 9</a> FT	Es'hail 2	
??	<a href="#">Falcon 9</a> v1.2	OHB SARah satellite (x2)	
??	<a href="#">Delta IV-M</a> (5,4)	WGS 10	
??	<a href="#">Atlas 5</a> 551	AFSPC-7	
??	<a href="#">Atlas 5</a>	AEHF 5	
??	<a href="#">Soyuz-2</a> 1A / <a href="#">Fregat</a>	Kanopus V 5, Kanopus V 6	40
??	<a href="#">Proton-M/Briz-M</a>	EutelSat 5 West B / MEV	
??	<a href="#">Proton-M/Briz-M</a>	Kosmos	
??	<a href="#">Proton-M/Briz-M</a>	Ямал-601	
??	<a href="#">Proton-M/Briz-M</a>	Ямал-GK-1	
??	<a href="#">Proton-M/Briz-M</a>	EgyptSat 3	
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> M	Meridian 18L	
??	<a href="#">Soyuz-2</a> 1A	Bars-M 3	
??	<a href="#">Soyuz-2</a> 1A	Energiya-100	
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Glonass M 55	
??	<a href="#">Soyuz-2</a> -1B	Obzor R -1	

?? Dnepr [UniSat-7](#)  
 Launch site: ([Dombrovskiy](#)), Russia

?? [Angara](#) 1.2 Kosmos



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?? [Ariane 5](#) ES [Galileo-FOC](#) FM19 (Tara), [Galileo-FOC](#) FM20 (Samuel), [Galileo-FOC](#) FM21 (Anna), [Galileo-FOC](#) FM22 (Ellen)

?? [CZ-2D](#) SJ-12 Shijian-12 (2)  
 ?? [CZ-2D](#) TH-2 Tianhui-2  
 ?? [CZ-2C](#) CSES-1 Earthquake electromagnetism monitor satellite  
 ?? ?? VeneSat-2  
 ?? [CZ-3B/E](#) CC-1 [Changcheng-1](#)  
 ?? CZ-2D GF-7 Gaofen-7  
 ?? CZ CBERS-SAR 1 20  
 ?? CZ Deep Space Solar Observatory  
 ?? CZ CBERS-4B

?? [CZ-3B/E](#) SupremeSAT-II  
 ?? [CZ-3B/E](#) CongoSat 1  
 ?? [CZ-3B/E](#) Apstar-6D

?? ?? 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-3B/YZ-1](#) [Beidou 3](#) MEO M7, [Beidou 3](#) MEO M8  
 ?? [CZ-3C](#) [Beidou 3](#) G8

?? [GSLV](#) MK II F12 GSAT-7A  
 ?? [GSLV](#) MK II F10 GISAT  
 ?? [PSLV](#) EnMap

?? [Safir 1 B](#) Tadbir  
 ?? Safir 3A Pars sepher

?? Tronador II/VEX5 TBD (suborbital)  
 Launch site: Puerto Belgrano, Argentina

166

## 2019.

Jan?? [Atlas 5](#) 531 [Cygnus](#) OA-11

**Feb06.** [Soyuz-2](#) [Progress MS 11](#)

Feb?? [CZ-3C](#) Beidou 3 I1Q  
 Feb?? [Falcon 9](#) GPS IIIA-3  
 Feb?? H-2B (F9) HTV8



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Feb?? [Atlas 5](#) [Solar Orbiter](#) (SolO) (ESA)  
Feb?? [Proton-M](#) MLM

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

## Mar30. [Soyuz-2 1A](#) [Soyuz MS 12](#)

CDR: ?? Павел Владимирович **ВИНОГРАДОВ** ( Pavel Vladimirovich **Vinogradov**), ?? **Sergei Kud-Sverchkov**, Shannon **Walker**

Mar?? [Soyuz-2](#) [Progress MS 12](#)  
Mar?? [Vega](#) Seosat (Ingenio)  
Mar?? [Ariane 5](#) ECA GEO-KOMPSAT-2B , Cheollian 2B  
Mar?? [Soyuz-2](#) 1B Progress M-UM

?? [Soyuz ST](#) B/[Fregat](#)-MT OneWeb smalsat (x32)  
?? [Soyuz-2-1B](#)/[Fregat](#) Glonass K2 / 13

Apr?? ?? GOES-T  
Apr?? [CZ-3B/E](#) Nicasat 1  
Apr?? [CZ-3C](#) Beidou 3 I2Q

?? CZ7 TZ 2 Tianzhou 2 (Logistic Cargo Vechile)

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

June?? [Atlas 5](#) 551 STP-03  
June?? [Ariane 5](#) MTG-I1  
June?? [Ariane 5](#) ES JWST (James Webb Space Telescope)

?? [PSLV](#) RISAT 1A  
?? [CZ-3B/G2](#) TECSTAR 1  
?? [Vega](#) Cosmo-SkyMed Secon Gen 1 CSG-1

July?? [CZ-3C](#) Beidou 3 I3Q

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

## Sep30. [Soyuz-2 1A](#) [Soyuz MS 13](#)

CDR: ??, Luca **Parmitano** (ESA) , Anne **McClain** (NASA)

Sep?? [Soyuz-2-1B](#)/[Fregat](#)-M Glonass K1 / 22

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-17

**Nov29.** [Soyuz-2 1a](#) / [Fregat](#) **Luna 25 (Luna-Glob-1)**

**Dec15.** **SLS-1 Orion (unmanned trip around the Moon) Exploration Mission 1 (Distant Retrograde Orbit (DRO) Tactical DRM**

Dec?? [CZ-3B](#)/YZ-1 Beidou 3 MEO M21, Beidou 3 MEO M22  
Dec?? [Proton-M](#)/[Briz-M](#) Ekspress 80, Ekspress 103  
Dec?? [Proton-M](#)/[Briz-M](#) Elektro L - 4





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??	Falcon H	Circumlunar Dragon V2
??	<a href="#">Falcon 9</a> v1.1	USCV-1 (US Commercial Vehicles)
??	<a href="#">Atlas 5</a> 402	USCV-2 (US Commercial Vehicles)
??	<a href="#">Falcon 9</a> v1.1	Astrium active SARah satellite
??	<a href="#">Falcon 9</a>	GPS IIIA-6
??	<a href="#">Falcon 9</a> v1.2	GPS IIIA-7
??	<a href="#">Falcon 9</a> v1.2	GPS IIIA-8
??	<a href="#">Delta IV</a> -M+(4,2)/ <a href="#">Atlas 5</a> 421	GPS IIIA-9/GPS IIIB-1
??	<a href="#">Delta IV</a> -M+(4,2)/ <a href="#">Atlas 5</a> 421	GPS IIIA-10/GPS IIIB-2
??	<a href="#">Atlas 5</a> 551	Asteroid Retrieval Spacecraft (ARS)
??	??	EX-3
??	??	AEHF-6
??	<a href="#">Vega</a>	Jason-CS A
??	<a href="#">Vega</a>	OpSis
??	<a href="#">Vega</a>	VNREDSat
??	<a href="#">Vega</a>	LOTUSat
??	<a href="#">Ariane 5</a> ECA	Eutelsat Quantum
??	<a href="#">Ariane 5</a> ECA	African Broadband Satellite
??	<a href="#">Soyuz ST</a> / <a href="#">Vega</a>	MicroCarb
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	Sentinel-1C
??	<a href="#">Ariane 5</a>	ViaSat-3
??	<a href="#">Ariane 5</a>	JCSat 17
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 13
??	<a href="#">Soyuz-2-1A</a> / <a href="#">Fregat</a> -M	Kondor-FKA n.º 1
??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a> -M	Arktika M 2
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	SkyTerra 2
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	Ekspress AMU 3 / Ekspress AMU 7
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	Luch 5M
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	Yenisey A1
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	Ямал-501
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	EutelSat
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	IntelSat
??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a> M	Meridian 19L
??	<a href="#">Soyuz-2-</a>	Razdan 1
??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a> -M	<a href="#">Glonass-M</a> / 53
??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a>	Glonass M/ 58
??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a>	Glonass M / 59
??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a>	Glonass M / 60
??	CZ-5	Chang'e-5 (Sample return)
??	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



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??	<a href="#">CZ-4B</a>	HY-2C Haiyang-2C
??	<a href="#">PSLV</a> XL	<a href="#">Aditya'</a>
<b>2020.</b>		
Jan??	<a href="#">Falcon 9</a> v1.1	USCV-3 (US Commercial Vehicles)
<b>Mar30.</b>	<b><a href="#">Soyuz 2-1A</a></b>	<b><a href="#">Soyuz MS 14</a></b>
Mar??	<a href="#">Delta IV</a> -M	DMSP-5D3 F20
Mar??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a> -M	Glonass K1 / 22
??	CZ-5	Tian He Space Station Core Module
Apr??	<a href="#">CZ-3B</a> /YZ-1	Beidou 3 MEO M23, Beidou 3 MEO M24
Apr??	Angara-1.2/AM <a href="#">Gonets</a>	x 3 (No 30,31,32)
??	CZ-5B	Wentian Lab module
??	CZ-2F/G	Space station module SZ-12 Shenzhou-12
??	<a href="#">CZ-3B/G2</a>	ZX-18 Zhongxing-18
June??	Ariane	MTG-S1/Sentinel-4A
June??	<a href="#">CZ-3C</a>	Beidou 3 G3Q
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	MetOp-SG A1/EPS-SG-a/Sentinel-5A
<b>July16</b>	<b>Ariane 62</b>	<b>Galileo-FOC FM23, Galileo-FOC FM24</b>
<b>July24.</b>	<b><a href="#">Proton-M/Briz-M</a></b>	<b>ExoMars (CM+DM)</b>
July??	<a href="#">Atlas 5</a> (541)	<a href="#">Mars 2020 rover</a> 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.
July??	<a href="#">CZ-3C</a>	Beidou 3 G2Q
??	CZ 5	<a href="#">Mars probe</a> (orbiter + lander + rover)
<b>Aug05.</b>	<b><a href="#">Proton-M/Briz-M</a></b>	<b>ExoMars</b> 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.
<b>Sep30.</b>	<b><a href="#">Soyuz 2-1A</a></b>	<b><a href="#">Soyuz MS 15</a></b>
Sep??	CZ	CBERS-6
Sep??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a> -M	Glonass K2 / 15
??	CZ-2F/G	SZ-13 Shenzhou-13
??	Vega	Proba 3
Dec??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> MT	Euclid



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Euclid will depart Earth on a Soyuz rocket launched from French Guiana and head for the L2 Lagrange point.

## 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
??	??	HyspIRI
??	Antares	IMAP/STP-05
??	<a href="#">Atlas 5</a> 402	USCV-4 (US Commercial Vehicles)
??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-19
??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-21
??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-22
??	<a href="#">Antares</a> 230	<a href="#">Cygnus</a> OA-12
??	<a href="#">Atlas 5</a> 552	Dream Chaser Cargo System SNC-1
??	Falcon H	ViaSat 3
??	<a href="#">Proton-M</a>	HƏM-1
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 14
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 15
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 16
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Arktika M 3
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glonass K2
??	<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</a> 1.2	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="#">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-0Э №1
??	<a href="#">Vega</a>	Sentinel-2C
??	<a href="#">Vega</a>	Sentinel-3C



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??	??	Biomass
??	??	Seosat-Ingenio-2
??	??	EPS-SG-b
??	<a href="#">Ariane 5</a>	Arsat 3
??	CZ5	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
??	<a href="#">GSLV</a> MK III	MOM-2 Follow on Mars Mission
??	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.

Jan ??	Ariane 62	Galileo-FOC FM25, Galileo-FOC FM26
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 17
<b>Mar30.</b>	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS</a> 16
Apr??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> M	MarcoPolo-R
June??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-5 (US Commercial Vehicles)
??	CZ7	TZ 3 Tianzhou 3 (Logistic Cargo Vehicle)
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 18
??	CZ-2F/G	SZ-14 Shenzhou-14
July??	Vulcan/Minotaur 6/ <a href="#">Falcon 9</a> v1.1	JPSS-2
<b>Sep30.</b>	<a href="#">Soyuz-2-1A</a>	<a href="#">Soyuz MS</a> 17
Oct??	<a href="#">Atlas 5</a> 401/ <a href="#">Falcon 9</a> v1.1	JPSS Free Flyer 2 (TSIS-2)
Dec??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-6 (US Commercial Vehicles)
??	<a href="#">Atlas 5</a> 552	Dream Chaser Cargo System SNC-2
??	SLS Block I	Europa Clipper
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 19
??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a> -M	Transformable Modul TM
??	<a href="#">Soyuz-2</a> 1a / <a href="#">Fregat</a>	<a href="#">Luna 26</a> (Luna-Resurs OA)
??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a> -M	Resurs PM - 2
??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a> -M	Meteor M No2-4
??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat</a> -M	Meteor M No3
??	<a href="#">Angara</a> 1.2	<a href="#">Gonets</a> x 3



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??	<a href="#">Proton-M/Briz-M</a>	Elektro L - 5
??	<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="#">Vega</a>	Sentinel-1A 2nd Gen
??	<a href="#">Vega</a>	Space Rider
??	<a href="#">Soyuz ST</a> / <a href="#">Vega</a>	Merlin
??	CZ	Venus Global Sensing Probe
??	CZ	FY-3G Fengyun-3G (Batch 2)

## 2022.

Jan??      ??      Solar Sentinels

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

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 18](#)

Apr??      [Angara](#) A5/ DM 03      Elektro M – 1-2

??	CZ7	TZ 4 Tianzhou 4 (Logistic Cargo Vehicle)
??	CZ-5B	Xuntian Lab module      Space station module
??	CZ-2F/G	SZ-15 Shenzhou-15

**June01.**      **SLS Block I**      **Orion: Exploration Mission 2 (Crew to Cislunar) Mission)**

June??	<a href="#">Ariane 5ECA</a>	JUICE (JUperiter ICy moon Explorer)
June??	Ariane 5	MTG-I2
June??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-7 (US Commercial Vehicles)

??	Sunkar ??	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS 21</a>

Aug??      H2B      Phobos sample return

**Sep30.**      [Soyuz-2-1A](#)      [Soyuz MS 19](#)

Sep??      [Soyuz ST](#) B/[Fregat](#)-MT MetOp-SG B1

??      Sunkar Federatsia (unmanned)

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

??      [Soyuz-2](#)      [Progress MS 22](#)



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?? [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 – AMU 5  
 ?? [Proton-M/Briz-M](#) Ekspres – AMU 6  
 ?? [Proton-M/Briz-M](#) Ekspres – RV 3, Ekspres – RV 4  
 ?? [Angara](#) 1.2 [Gonets](#) x 3  
 ?? [Soyuz-2-1B/Fregat-M](#) Meteor M No2-5  
 ?? [Proton-M/Briz-M](#) Eutelsat  
 ?? [Proton-M/Briz-M](#) Intelsat  
 ?? [Soyuz-2-1B/Fregat-M](#) Smotr R №2  
 ?? [Soyuz-2-](#) Razdan 2

?? [Ariane 5](#) Moon's south pole samples return mission  
 ?? [Vega](#) Jason-CS B  
 ?? Ariane 5 ATHENA

?? CZ HY-3C Haiyang-3C

## 2023.

?? [Soyuz-2](#) [Progress MS](#) 23

**Mar30.** [Soyuz-2-1A](#) [Soyuz MS](#) 20

?? CZ7 TZ 5 Tianzhou 5 (Logistic Cargo Vehicle)  
 ?? CZ-2F/G SZ-16 Shenzhou-16

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

?? [Soyuz-2](#) [Progress MS](#) 24

**Sep30.** [Soyuz-2-1A](#) [Soyuz MS](#) 21

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

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

?? SLS Block IA II Orion: Exploration Mission 3 (Crew to Cislunar)

?? Sunkar Federatsia (unmanned flight to ISS)

?? A Russian [Proton/Briz-M](#) (or Angara) rocket to launch the [Laplas-P](#) mission to orbit the moon of Jupiter Ganymede.

?? [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

?? [Vega](#) Sentinel-2A 2nd Gen



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?? 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 22](#)

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

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

**Sep30.** [Soyuz-2-1A](#) [Soyuz MS 23](#)

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](#) 26  
 ?? [Soyuz-2](#) [Progress MS](#) 27  
 ?? [Soyuz-2](#) [Progress MS](#) 28

?? [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, Gonets M  
 ?? [Soyuz-2-1B/Fregat](#)-M Arktika M 4  
 ?? ?? Ямал GK VEO 1  
 ?? [Soyuz-2-1B/Fregat](#)-M Meteor MP No1  
 ?? [Soyuz-2-1A](#) Obzor P -1  
 ?? [Soyuz-2-1B/Fregat](#)-M Razdan - 3

?? ?? 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)

?? [Soyuz-2-1A](#) [Soyuz MS](#) 24



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??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 29
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	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-2-1B/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
??	<a href="#">Angara</a> A%/DM-03	Elektro M -1
??	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> A5P/DM03	Bumerang (FobosGrunt 2)