



# Blog Gorana Hudeca

## Predstojeća lansiranja u Svemir (24.04.2016.)

2017.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in red. Last change 24.Apr.2017.

**Apr30. 1100UTC Falcon 9 NROL 76**

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

**May05. 1127UTC GSLV MK II F09 GSAT-9**

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

**May13. CZ-3B/YZ-1 Beidou 3**

Launch site: [Xichang](#), China

**May15. 2320UTC Falcon 9 FT Inmarsat 5 F4**

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

**May29. Proton-M/Briz-M EchoStar 21**

Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan 120

**May31. 2330UTC Falcon 9 Dragon SpX-11 (CRS11)**

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

May?? [PSLV](#) C38 [Cartosat-2E](#)

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

**May?? 1447UTC Soyuz ST B/Fregat-MT (VS17) SES 15**

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

**May?? Ariane 5 ECA (VA236) SGDC 1 / Koreasat-7 (Mugungwa 7)**

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

**May?? CZ-2C ??**

Launch site: [Xichang](#), China

**June01. H-2A QSZ-3**

Launch site: [Tanegashima](#), Japan

**June14. 0920UTC Soyuz-2 1A Progress MS 6**

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

**June17. Falcon 9 FT Iridium Next Flight 2 (x10)**

Launch site: [Vandenberg](#), USA

**June28. Ariane 5 ECA (VA238) EuropaSat (HellasSat 3) / GSAT-17**

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

**June29. Soyuz-2 1A / Fregat M Kanopus V IK**

Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan 110

June?? [Proton-M/Briz-M](#) [Blagovest \(14Φ149\)](#)

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



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June?? [CZ-2D](#) Hard X-ray Modulation Telescope (HXMT)  
 HXMT comprises three to four single telescopes equipped with hard X-ray detectors, instead of optical lenses, and will be used to observe space black holes.  
 Launch site: [Jiuquan](#), China

June?? [GSLV](#) MK III D1 GSAT-19E  
 Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

June?? [Ariane 5](#) (VA237) [ViaSat-2](#) / [Eutelsat 172B](#)  
 Launch site: [Kourou](#), French Guiana

June??	<a href="#">CZ-3B/E</a>	Alcomsat-1	
June??	LS-1	LandSpace-1	
June??	CZ-5	SJ-18 (DFH5 bus)	
June??	<a href="#">CZ-2D</a>	Shaonian Xing	
June??	<a href="#">Falcon 9</a> FT	Intelsat 35e	
June??	<a href="#">Falcon 9</a> FT	SES 11	100
June??	<a href="#">Falcon 9</a> FT	BulgariaSat	

**July15. 0500GMT Minotaur-4/Orion 38ORS-5: SensorSat**

**July22. [Falcon 9](#) FT Formosat 5**

**July25. [Vega](#) (VV10) Venµs, OPTSAT 3000**

**July28. 1541UTC [Soyuz-2 1A](#) [Soyuz MS 5](#) (S52/53)**  
 CDR: Сергей Николаевич **РЯЗАНСКИЙ** (Sergei N. **Ryazansky**), Paolo **Nespoli** (ESA), Randolph J. **Bresnik**

July??	<a href="#">Falcon 9</a> FT	KoreaSat 5A
July??	<a href="#">CZ-3B/G2</a>	ZX-9A Zhongxing-9A
July??	<a href="#">Proton-M/Briz-M</a>	Amazonas 5

**Aug01. [Falcon 9](#) FT [Dragon](#) SpX-12**

**Aug03. 1240UTC [Atlas 5](#) 401 (AV075) TDRS-M 90**

**Aug14. [Atlas 5](#) 541 NROL-42 Trumpet Follow On 2**

**Aug16. [CZ-2D](#) ZH-1 Zengheng 1 (ESEM experimental satellite on Electromagnetism Monitoring)**

**Aug24. [Falcon 9](#) FT [Iridium Next](#) Flight 3 (x10)**  
 Launch site: [Vandenberg](#), USA

**Aug31. [Atlas 5](#) 421 (AV076) NROL-52 (Quasar 21)**

Aug??	<a href="#">CZ-2D</a>	Fengmaniu-1
Aug??	<a href="#">Rokot / Briz KM</a>	Sentinel-5 Precursor
Aug??	Pegasus-XL	ICON (Helio EX-1)
Aug??	<a href="#">Proton-M/Briz-M</a>	Kosmos

??	Epsilon (Jap)	ASNARO 2	
??	<a href="#">Ariane 5</a> ECA	Al Yah 3	80
??	<a href="#">Ariane 5</a> ECA	BSat 4a	





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??	<a href="#">Proton-M/</a> DM 3	Electro-L N3	
<b>Dec16.</b>	<b><a href="#">Falcon 9</a> FT</b>	<b>Bangabandhu-1</b>	
<b>Dec28.</b>	<b><a href="#">PSLV</a></b>	<b>Team Indus</b>	<b>40</b>
Dec??	<a href="#">CZ-2D</a>	GJ-3 GaoJing-3, GJ-4 GaoJing-4	
Dec??	<a href="#">Falcon 9</a> FT	Grace-FO	
Dec??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Meteor M-2-1, two MKA N, Ionosfera 1, Ionosfera 2	
Dec??	<a href="#">Falcon 9</a> FT	<a href="#">Iridium Next</a> Flight 5 (x10)	
Dec??	<a href="#">CZ-3B/YZ-1</a>	<a href="#">Beidou 3</a> MEO M7, <a href="#">Beidou 3</a> MEO M8	
Dec??	<a href="#">CZ-3C</a>	<a href="#">Beidou 3</a> G8	
Dec??	<a href="#">Ariane 5</a> ECA	GSAT-11	
Dec??	<a href="#">Proton-M/</a> DM 3	Kosmos	
<b>Dec??</b>	<a href="#">Soyuz-2</a> 1A / Fregat	Kanopus V 3, Kanopus V 4	
??	<a href="#">Falcon 9</a> FT	PSN VI	<b>30</b>
??	<a href="#">Falcon 9</a> FT	PAZ	
??	Falcon Heavy	STP-02	
??	<a href="#">Soyuz-2-1V</a>	Kosmos 14F150 (geodesy??)	
Launch site: Плесецк ( <a href="#">Plesetsk</a> ) Cosmodrome, Russia			
??	<a href="#">Soyuz-2-1B/ Fregat</a>	<a href="#">Tundra 2</a>	
Launch site: Плесецк ( <a href="#">Plesetsk</a> ) Cosmodrome, Russia			
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	<a href="#">Glonass-M/</a> 56	
Launch site: Плесецк ( <a href="#">Plesetsk</a> ) Cosmodrome, Russia			
??	<a href="#">Angara</a> 1.2	Kosmos	
??	<a href="#">Soyuz-2-1B</a>	Persona - 3	
??	<a href="#">Angara</a> A5/ DM03	Kosmos	
??	<a href="#">Zenit 3 SL /Fregat-SB</a>	Lybid'	
??	<a href="#">Proton-M/</a> DM-03	<a href="#">Glonass-M/</a> ??	<b>20</b>
??	<a href="#">Soyuz-2-1B</a>	Pion	
??	<a href="#">Soyuz-2-1B</a>	Labirint 11	
??	<a href="#">Ariane 5</a> ECA	SES 12	
??	<a href="#">Ariane 5</a> ECA	Azerspace 2 (Intelsat 38)	
??	CZ-??	<a href="#">CAS-4A, CAS-4B</a>	
Launch site: <a href="#">Taiyuan</a> , China			
??	<a href="#">CZ-3A</a>	FY-2H Fengyun-2H	
??	<a href="#">CZ-2D</a>	GF-6 Gaofen-6	
??	CZ-2	CAS-2A1, CAS-2A2	
??	CZ	YG-32 Yaogan Weixing 31	
??	CZ	YG-32 Yaogan Weixing 32	<b>10</b>
??	CZ	Orbita-1 1	
??	<a href="#">CZ-2D</a>	SaudiSAT 5B	
??	<a href="#">CZ-2D</a>	JL-3 Jilin-3	
??	??	LJ-1 Luojia-1	
??	CZ	Tianyi	



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?? [CZ-4C](#) Hede-1  
 ?? [PSLV](#) IRNSS-1I  
 ?? [H-2A](#) [IGS Optical-6](#)  
 ?? [Simorgh](#) [Dosti](#)  
 Launch site: [Semnan](#), Iran

4 + (24)  
 22 + (124)

## 2018.

Jan?? [Vega](#) Seosat (Ingenio)  
 ?? [Soyuz-2-1B/Fregat-M](#) [Glonass-M/](#) 52  
 ?? [Falcon 9 FT](#) [Telstar 18](#)  
 ?? [Falcon 9 FT](#) [Telstar 19](#)  
 Feb?? [Falcon 9 FT](#) [Dragon](#) SpX-14  
 Feb?? [Soyuz-2 1A](#) [Progress MS 8](#)  
 Feb?? [Falcon 9 FT](#) [Iridium Next](#) Flight 6 (x10)  
 Feb?? [CZ-3B/YZ-1](#) Beidou 3 MEO M9, Beidou 3 MEO M10  
 Feb?? H-2B (F7) HTV7  
 ?? [Soyuz-2-1B/Fregat](#) Glonass K2 / 13 **140**  
 ?? [Soyuz-2-1B/Fregat-M](#) Meteor M-2-2, Ionosfera 3, Ionosfera 4  
 ?? [Soyuz ST B/Fregat-MT](#) O3b  
 ?? [Ariane 5](#) ECA EDRS-C (Hylas 3)

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

**Mar30.** [Soyuz-2 1A](#) [Soyuz MS 8 \(S55/56\)](#)  
 CDR: ??, Andrew **Feustel**, Ricky **Arnold**

**Mar20.** [Falcon 9 FT](#) **TESS**

Mar?? [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.

Mar?? [PSLV](#) Cartosat-3  
 Mar?? [Atlas 5 \(541\)](#) GOES-S  
 Mar?? [Atlas 5 551](#) AFSPC-11  
 Mar?? [Antares 230](#) [Cygnus](#) Orb-9  
 Mar?? [Soyuz ST B/Fregat-MT](#) OneWeb smalsat (x10)  
 Mar?? [CZ-3B/YZ-1](#) Beidou 3 MEO M11, Beidou 3 MEO M12  
 ?? [Soyuz-2-1B/ Fregat-M](#) Glonass M  
 ?? [Delta IV-M+\(4,2\)](#) GPS III-1  
 ?? [GSLV MK III D2](#) GSAT-20  
 ?? SS-520-5 TRICOM 1 R



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?? [GSLV](#) Mk II D9 Chandrayaan 2  
 India's second mission to the moon called *Chandrayaan - II* is likely to be launched by GSLV MkII. The project will include a robotic vehicle that will move around on after achieving a soft landing on the moon.

Apr?? [Falcon 9](#) FT [Dragon](#) SpX-15  
 Apr?? [Soyuz-2](#) 1A [Progress MS](#) 9 120  
 Apr?? [Falcon 9](#) FT [Iridium Next](#) Flight 7 (x10)

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

**May30.** [Soyuz-2](#) 1A [Soyuz MS 9 \(S56/57\)](#)  
**CDR:** Александр Михайлович Самокутяев (Aleksander M. **Samokutyev**), Jeanette J. **Epps**, Alexander **Gerst**

May?? [Falcon 9](#) GPS IIIA-2  
 May?? [Falcon 9](#) Dragon v2 manned test  
 May?? [Ariane 5](#) ECA GEO-KOMPSAT-2A  
 May?? [CZ-3B/YZ-1](#) Beidou 3 MEO M13, Beidou 3 MEO M14

June?? CZ L2 Chang'e 4 communications relay satellite  
 June?? CZ-2C Pakistani Remote Sensing Satellite (PRSS) 1  
 ?June?? [Atlas 5](#) 422 CST-100 Starliner (unmanned test)  
 June?? Delta II 7320-10C ICESat-II  
 June?? [Proton-M](#) MLM

?? [Proton-M](#) PTK NP  
 ?? [Vega](#) TARANIS  
 ?? [Soyuz-2](#) 1B / [Fregat](#)-M Glonass K1 / 15  
 ?? [Soyuz ST](#) CSO 1  
 ?? [Vega](#) Prisma  
 ?? [Vega](#) Cosmo-SkyMed Secon Gen 1 CSG-1

**July01.** [Soyuz-2](#) [Progress MS 10](#)

July?? [PSLV](#) Oceansat-3 100

July?? Delta 4-H Solar Probe Plus

Aug?? [Soyuz ST](#) B/ [Fregat](#)-MT EarthCare  
 Aug?? [Falcon 9](#) FT [Dragon](#) SpX-16  
 Aug?? [Atlas 5](#) 422 CST-100 Starliner (manned test)  
 Aug?? [CZ-3C](#) Beidou 2 I7

?? [Soyuz ST](#) B/ [Fregat](#)-MT OneWeb smalsat (x32)

**Sep30.** [Soyuz-2](#) 1A [Soyuz MS 10 \(S57/58\)](#)  
**CDR:** Геннадий Иванович Падалка (**Padalka**), Бабкин (Andrei **Babkin**), Nick **Hague**

Sep?? [Atlas 5](#) 402 / [Falcon 9](#) v1.1 USCV-1 (US Commercial Vehicles)  
 Sep?? [CZ-3B/YZ-1](#) Beidou 3 MEO M15, Beidou 3 MEO M16

?? [Soyuz ST](#) B/ [Fregat](#)-MT OneWeb smalsat (x32)

**Oct15.** [Ariane 5](#) ES **JWST (James Webb Space Telescope)**

**Oct16.** [Soyuz-2](#) [Progress MS 11](#)



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## Oct31. [Atlas 5](#) [Solar Orbiter \(SoIo\) \(ESA\)](#)

Oct??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-17
Oct??	<a href="#">Ariane 5</a>	<a href="#">BepiColombo</a> ESA and ISAS Mercury Orbiters
Oct??	<a href="#">Antares</a> 230	<a href="#">Cygnus</a> Orb-10
Oct??	<a href="#">Soyuz ST</a> B/Fregat-M	MetOp-C
Oct??	<a href="#">CZ-3C</a>	Beidou 3 G1Q

??	<a href="#">Proton-M/</a> DM-03	<a href="#">Glonass-M/K16,K17,K18</a>	
??	<a href="#">Ariane 5</a> ECA	Intelsat 39	80
??	CZ-5	Tian He Space Station Core Module	
??	<a href="#">Ariane 5</a>	<a href="#">Horizon 3e</a>	
??	<a href="#">Falcon 9</a> FT	ORS-6	

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

**CDR: Кононенко (Oleg Kononenko),** Serena **Auñón-Chancellor,** David **Saint-Jaques** (Can)

??	Minotaur 1	NROL 111
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x32)
??	CZ7	TZ 2 Tianzhou 2 (Logistic Cargo Vechile)

Nov??	SLS-1	Orion (unmanned trip around the Moon) Exploration Mission 1 (Distant Retrograde Orbit (DRO) Tactical DRM)
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Dec??	<a href="#">CZ-3B/GIII</a>	Chang'e-4 (Moon far side Aitken Basin lander/rover)
Dec??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-18
Dec??	<a href="#">Antares</a> 230	<a href="#">Cygnus</a> OA-11
Dec??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a> v1.1	USCV-2 (US Commercial Vehicles)
Dec??	<a href="#">CZ-3B/YZ-1</a>	Beidou 3 MEO M17, Beidou 3 MEO M18

??	CZ-2F/G	SZ-12 Shenzhou-12
??	Falcon H	Circumlunar Dragon V2
??	<a href="#">Soyuz-2-1B/Fregat</a> -M	Glonass K2 / 14
??	<a href="#">Ariane 5</a>	Heinrich Hertz

??	<a href="#">Falcon 9</a> v1.2	Radarsat Constellation Mission (x3)	
??	<a href="#">Falcon 9</a> v1.2	OHB SARah satellite (x2)	
??	<a href="#">Falcon 9</a> v1.2	WGS 10	60
??	Minotaur-4	FORMOSAT-7 (6 sat)	
??	<a href="#">Atlas 5</a> 551	AFSPC-7	
??	??	Landsat 9	
??	??	AEHF 5	
??	<a href="#">Falcon 9</a> FT	Es'hail 2	

??	<a href="#">Soyuz-2</a> 1B	Progress M-UM
??	<a href="#">Proton-M</a>	НЭМ-1

??	<a href="#">Proton-M/Briz-M</a>	Ямал-501
??	<a href="#">Soyuz-2-1B/Fregat</a> -M	Метеор-М №3
??	<a href="#">Soyuz-2-1V</a> / Volga	Обзор-О №2

??	<a href="#">Soyuz-2-1A/Fregat</a>	Resonance 1A, Resonance 1B
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RESONANCE is a project to study Earth's magnetosphere consisting of four similar satellites.

??	<a href="#">Rokot / Briz KM</a>	<a href="#">Gonets</a> x 3 (No 27,28,29)
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??	<a href="#">Proton-M/Briz-M</a>	AOneSat-1	
??	<a href="#">Falcon 9 v1.2</a>	Dragon v2	
??	<a href="#">Soyuz-2-1B</a>	Arktika M 1	
Launch site: Восточный (Vostochniy), Cosmodrome, Russia			
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Arktika M	
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Arktika M 2	
??	<a href="#">Proton-M/Briz-M</a>	Ямал-601	
??	<a href="#">Proton-M/Briz-M</a>	Terrestar-2	
??	<a href="#">Proton-M/Briz-M</a>	SkyTerra 2	40
??	<a href="#">Proton-M/Briz-M</a>	EutelSat 5 West B / MEV	
??	<a href="#">Proton-M/Briz-M</a>	Elektro L - 3	
??	<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	
??	<a href="#">Soyuz-2-1B/Fregat M</a>	Meridian	
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Smotr R №1	
??	??	Zond	
??	??	MKA PN6 (Monika)	
??	??	Картограф-ОЭ №1	
??	<a href="#">Ariane 5 ES</a>	<a href="#">Galileo-FOC FM19 (Tara)</a> , <a href="#">Galileo-FOC FM20 (Samuel)</a> , <a href="#">Galileo-FOC FM21 (Anna)</a> , <a href="#">Galileo-FOC FM22 (Ellen)</a>	
??	<a href="#">Ariane 5 ECA</a>	Intelsat 37e	
??	<a href="#">Ariane 5 ECA</a>	Hellas-Sat-4	
??	<a href="#">Ariane 5 ECA</a>	DSN 1 (Superbird-8)	
??	<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	
??	??	FY-3 Fengyun-3 RM-1	
??	??	VeneSat-2	20
??	<a href="#">CZ-3B/E</a>	CC-1 <a href="#">Changcheng-1</a>	
??	CZ-2D	GF-7 Gaofen-7	
??	CZ	CBERS-SAR 1	
??	CZ	Deep Space Solar Observatory	
??	CZ	CBERS-4B	
??	<a href="#">CZ-3B/E</a>	SupremeSAT-II	
??	<a href="#">CZ-3B/E</a>	CongoSat 1	
??	<a href="#">CZ-3B/E</a>	Apstar-6D	
??	??	Small Military Meteorological Satellite (x6)	
??	CZ	FY-3E Fengyun-3E	
??	CZ	FY-4B Fengyun-4B	
??	<a href="#">CZ-4B</a>	<a href="#">Haiyang-1C</a>	HY-1C
Launch site: <a href="#">Taiyuan</a> , China			





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?? CZ-4B HY-1D Haiyang-1D  
 ?? CZ-4B HY-2B Haiyang-2B

?? [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

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## 2019.

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

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

CDR: ??, [Кудь-Сверчков/Матвеев](#) (Serguei [Kud'-Sverchkov](#)/Denis [Matveev](#)), NASA

?? [Proton-M](#)/ DM3 3xGlonass K2 / K19, K20, K21

Apr?? ?? GOES-T  
 Apr?? Epsilon SLIM (Smart Lander for Investigating Moon)  
 Apr?? [CZ-3B/E](#) Nicasat 1  
 Apr?? [CZ-3C](#) Beidou 3 I2Q

?? CZ7 TZ 3 Tianzhou 3 (Logistic Cargo Vehicle)

?? CZ-2F/G SZ-13 Shenzhou-13

May?? [Falcon 9](#) FT [Dragon](#) SpX-19  
 May?? [Atlas 5](#) 402 / [Falcon 9](#) v1.1 USCVC-3 (US Commercial Vehicles)

### June30. [Soyuz-2 1A](#) [Soyuz MS 13](#)

June?? [Atlas 5](#) 401 STP-03  
 June?? [Ariane 5](#) MTG-I1

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

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

### Sep30. [Soyuz-2 1A](#) [Soyuz MS 14](#)

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

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

Oct?? [Atlas 5](#) 552 Dream Chaser Cargo System



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Oct??	<a href="#">CZ-3B/YZ-1</a>	Beidou 3 MEO M19, Beidou 3 MEO M20
<b>Nov29.</b>	<b><a href="#">Soyuz-2 1a / Fregat</a></b>	<b>Luna 25 (Luna-Glob-1)</b>
??	Vega	Proba 3
Dec??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a> v1.1	USCV-4 (US Commercial Vehicles)
Dec??	<a href="#">CZ-3B/YZ-1</a>	Beidou 3 MEO M21, Beidou 3 MEO M22
??	<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>	EarthCare
??	<a href="#">Vega</a>	OpSis
??	<a href="#">Vega</a>	VNREDSat
??	<a href="#">Vega</a>	LOTUSat
??	<a href="#">Ariane 5</a> ECA	Jabiru 2
??	<a href="#">Ariane 5</a>	Arsat 3
??	<a href="#">Ariane 5</a> ECA	Jabiru-1
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 12
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 13
??	<a href="#">Proton-M/Briz-M</a>	Elektro L - 5
??	<a href="#">Soyuz ST / 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-2-1B/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>	Glonass M / 60
??	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
??	CZ	HY-3A Haiyang-3A
??	<a href="#">CZ-4B</a>	HY-2C Haiyang-2C
??	<a href="#">PSLV</a> XL	<a href="#">Aditya'</a>

## 2020.



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July??	<a href="#">CZ-3C</a>	Beidou 3 G2Q
<b>Mar30.</b>	<b>Soyuz 2-1A</b>	<b>Sojuz MS-15</b>
Mar??	<a href="#">Delta IV-M</a>	DMSP-5D3 F20
Mar??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glonass K1 / 22
Apr??	<a href="#">CZ-3B/YZ-1</a>	Beidou 3 MEO M23, Beidou 3 MEO M24
??	CZ7	TZ 4 Tianzhou 4 (Logistic Cargo Vehicle)
??	CZ-2F/G	SZ-14 Shenzhou-14
??	<a href="#">CZ-3B/G2</a>	ZX-18 Zhongxing-18
June??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a> v1.1	USCV-5 (US Commercial Vehicles)
June??	Ariane	MTG-S1/Sentinel-4A
June??	<a href="#">CZ-3C</a>	Beidou 3 G3Q
??	<a href="#">Soyuz ST B/Fregat-MT</a>	MetOp-SG A1/EPS-SG-a/Sentinel-5A
??	<a href="#">Proton-M/Briz-M</a>	ExoMars (CM+DM)
July??	Atlas V (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.
??	CZ 5	<a href="#">Mars probe</a> (orbiter + lander + rover)
Aug05.	<a href="#">Proton-M/Briz-M</a>	ExoMars 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.
??	CZ-5B	Wentian Lab module Space station module
<b>Sep30.</b>	<b>Soyuz 2-1A</b>	<b>Sojuz MS-16</b>
Sep??	CZ	CBERS-6
Sep??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glonass K2 / 15
Dec??	<a href="#">Soyuz ST B/Fregat</a> MT	Euclid
Dec??	Atlas V	Landsat 9
Dec??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a> v1.1	USCV-6 (US Commercial Vehicles)
??	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



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??	Antares	IMAP/STP-05
??	Falcon H	ViaSat 3
??	<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</a> 1a / <a href="#">Fregat</a>	<a href="#">Luna 26</a> (Luna-Resurs OA)
??	<a href="#">Proton-M/Briz-M</a>	Ekspress - 103
??	<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="#">Vega</a>	Sentinel-2C
??	<a href="#">Vega</a>	Sentinel-3C
??	??	Biomass
??	??	Seosat-Ingenio-2
??	??	EPS-SG-b
??	CZ	Recoverable Moon Probes
??	CZ	Two Meter Space Telescope
??	CZ	FY-4C Fengyun-4C
??	<a href="#">GSLV</a> MK III	MOM-2 Follow on Mars Mission
??	H-IIA	<a href="#">Hope</a> (UAE mission to Mars)
??	CZ	HY-3B Haiyang-3B
<b>2021.</b>		
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 17
<b>Mar30.</b>	<a href="#">Soyuz-2-1A</a>	<b>Sojuz MS-17</b>
Apr??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> M	MarcoPolo-R
May??	<a href="#">Proton-M</a> / DM-03	Spektr - UF
June??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-7 (US Commercial Vehicles)
??	CZ7	TZ 5 Tianzhou 5 (Logistic Cargo Vechile)
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 18
??	CZ-2F/G	SZ-15 Shenzhou-15
July??	Vulcan/Minotaur 6/ <a href="#">Falcon 9</a> v1.1	JPSS-2
Aug??	SLS Block I	Orion: Exploration Mission 2 (Crew to Cislunar) Mission)
<b>Sep30.</b>	<a href="#">Soyuz-2-1A</a>	<b>Sojuz MS-18</b>
Oct??	<a href="#">Atlas 5</a> 401/ <a href="#">Falcon 9</a> v1.1	JPSS Free Flyer 2 (TSIS-2)
Oct??	<a href="#">Angara</a> A5P	Federatsia (unmaned)



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Dec??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-8 (US Commercial Vehicles)
??	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-M</a>	Transformable Modul TM
??	<a href="#">Soyuz-2</a> 1b	Luna 27 (Luna-Resurs PA) Testing an adaptive landing mode with a radio-beacon; delivering a rover
??	<a href="#">Proton-M</a> / <a href="#">Briz-M</a>	Ekspress – RV1, RV2
??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat-M</a>	Resurs PM - 2
??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat-M</a>	Meteor M No2-4
??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat-M</a>	Meteor M No2-5
??	<a href="#">Soyuz-2-1B</a> / <a href="#">Fregat-M</a>	Meteor M No3
??	<a href="#">Angara</a> 1.2	<a href="#">Gonets</a> x 3
??	<a href="#">Soyuz-2-1B</a>	Obzor R -1
??	<a href="#">Angara</a> A5P/DM03	Lutch 5 – 2
??	??	Ямал GK 1
??	<a href="#">Soyuz-2-1b</a>	Bion-M No. 2
??	<a href="#">Angara</a> A5P/DM03	Enisei A-1
??	<a href="#">Vega</a>	Sentinel-1A 2nd Gen
??	<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 Sentinals

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](#) Sojuz MS-19**

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

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

?? CZ-2F/G SZ-16 Shenzhou-16

June?? [Ariane 5](#)ECA JUICE (JUperiter ICy moon Explorer)

June?? Ariane 5 MTG-I2

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

?? CZ-5B Xuntian Lab module Space station module

Aug?? H2B Phobos sample return

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



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Sep??	<a href="#">Soyuz ST B/Fregat</a> -MT	MetOp-SG B1	
Dec??	<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> 20	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 21	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 22	
??	<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 4
??	<a href="#">Angara</a> 1.2		<a href="#">Gonets</a> x 3
??	<a href="#">Angara</a> A5P/DM03		Lutch 5 – 3
??	??		Ямал GK 2
??	<a href="#">Ariane 5</a>		Moon's south pole samples return mission
??	<a href="#">Vega</a>		Jason-CS B
??	<a href="#">Ariane 5</a>		ATHENA
??	CZ		HY-3C Haiyang-3C

## 2023.

<b>Mar30.</b>	<a href="#">Soyuz-2-1A</a>	<b>Sojuz MS-21</b>	
June??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>		USCV-11 (US Commercial Vehicles)
<b>Sep30.</b>	<a href="#">Soyuz-2-1A</a>	<b>Sojuz MS-22</b>	
Dec??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>		USCV-12 (US Commercial Vehicles)
??	SLS Block IA II		Orion: Exploration Mission 3 (Crew to Cislunar)
??	<a href="#">Angara</a> A5P		Federatsia (unmaned flight to ISS)
??	<a href="#">Angara</a> A5P		Federatsia (Light 14t – 2 man to ISS)
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 23	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 24	
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 25	

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

regions of the Moon back to Earth.

??	<a href="#">Proton-M/Briz-M</a>		Ekspress – AT3, AT4
??	<a href="#">Soyuz-2-1B/Fregat</a> -M	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</a> -M	Ellips - 1	
??	<a href="#">Angara</a> A5P/DM03		Dopler 1, 2



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??	<a href="#">Vega</a>	Sentinel-2A 2nd Gen
??	CZ	SPORT (Solar Polar Orbit Radio Telescope)
??	CZ	FY-4D Fengyun-4D
??	CZ5	Chang'e-6 (Moon far side sample return)
??	<a href="#">GSLV</a> MK III	Mission to Venus
<b>2024</b>		
<b>Mar30.</b>	<a href="#">Soyuz-2-1A</a>	<b>Sojuz MS-23</b>
June??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-13 (US Commercial Vehicles)
<b>Sep30.</b>	<a href="#">Soyuz-2-1A</a>	<b>Sojuz MS-24</b>
Oct??	EELV	GOES-U
??	SLS Block IA II	Orion: Exploration Mission 4 (Crew to Cislunar)
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 26
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 27
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 28
??	<a href="#">Soyuz-2</a> 1b	Luna28 (Luna-Grunt-1) delivering a new-generation rover for gathering, analysis and uploading of samples
??	<a href="#">Proton-M/Briz-M</a>	Ekspress – AMU 9
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Resurs PM - 4
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Meteor MP No1
??	<a href="#">Angara</a> 1.2	<a href="#">Gonets</a> x 2, Gonets M
??	<a href="#">Angara</a> A5P/DM03	Lutch 5 – 4
??	??	Ямал GK 3
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Arktika M 4
??	<a href="#">Angara</a> A5P/DM03	Bumerang (FobosGrunt 2)
??	??	DYNAMIC/STP-06
??	CZ	Asteroid (Ceres) Sample Return Mission
??	Lapan	Pengorbitan-1 (RPS-01) (Indonesia)
<b>2025</b>		
??	SLS Block IA II	Orion: Exploration Mission 5 (Crew to Cislunar)
??	<a href="#">Soyuz-2-1A</a>	Sojuz MS-25
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 29
??	<a href="#">Angara</a> 1.2	<a href="#">Gonets</a> x 3
??	<a href="#">Soyuz-2-1B</a>	Obzor O -2
??	<a href="#">Soyuz-2-1b</a>	Bion-M No. 3
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Arktika M 5
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Ellips - 2



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??	<a href="#">Angara</a> A5P/KVTK	Enisei A-2
??	<a href="#">Soyuz-2-1B/Fregat</a> -M	Resonans 2A, 2B, MKA-PN5
??	<a href="#">Soyuz-2-1B/Fregat</a> -M	Smotr R №2
??	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)