



## Blog Gorana Hudeca

### Predstojeća lansiranja u Svemir (13.03.2017.)

2017.

This list is compilation of reliable and others sources, chosen by my own criteria. Last week changes are in **red**. Last change **13.Mar.2017**.

Mar14. **0434**UTC [Falcon 9](#) FT 032 [Echostar 23](#)  
Launch site: [Cape Canaveral](#), USA

Mar14. **2245**UTC [Delta IV](#)-M+(5,4) [WGS 9](#)  
Launch site: [Cape Canaveral](#), USA

Mar16. 0100UTC [H-2A](#) [IGS Radar 5](#) **130**  
Launch site: [Tanegashima](#), Japan

Mar21. [Ariane 5](#) ECA (VA236) [SGDC 1](#) / [Koreasat-7](#) (Mugungwa 7)  
Launch site: [Kourou](#), French Guiana

Mar22. 0208UTC [Atlas 5](#) 401 [Cygnus](#) Orb-7 (CRS-7)  
Launch site: [Cape Canaveral](#), USA

Mar27. [Falcon 9](#) FT [SES-10](#)  
Launch site: [Cape Canaveral](#), USA

Mar31. CZ-?? [CAS-4A, CAS-4B](#)  
Launch site: [Taiyuan](#), China

Mar31. [GSLV](#) MK II F09 [GSAT-9](#)  
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

?? [Soyuz-2-1B/Fregat-M](#) [Glonass-M](#)/ 56  
Launch site: Плесецк ([Plesetsk](#)) Cosmodrome, Russia

Apr04. 1447UTC [Soyuz ST](#) B/[Fregat](#)-MT (VS17) [SES 15](#)  
Launch site: [Kourou](#), French Guiana

Apr09. [Falcon 9](#) [Dragon](#) SpX-11 (CRS11)  
Launch site: [Cape Canaveral](#), USA

Apr20. 0713UTC [Soyuz-2](#) 1A [Soyuz MS](#) 4 (S51/52)  
CDR: Fyodor Yurichkhin, Jack D. Fischer

Apr23. **1020**UTC CZ7 [Tianzhou 1](#) TZ 1 (Logistic Cargo Vehicle) **120**  
Launch site: [Wenchang](#), China

**Apr23.** [PSLV](#) C38 [Cartosat-2E](#)  
Launch site: [Satish Dhawan Space Centre](#), Sriharikota, India

Apr25. [Ariane 5](#) (VA237) [ViaSat-2](#) / [Eutelsat 172B](#)  
Launch site: [Kourou](#), French Guiana

**Apr29.** [Proton-M/Briz-M](#) [EchoStar 21](#)  
Launch site: Байконур ([Baikonur](#)) Cosmodrome, Kazakhstan



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Apr??	<a href="#">CZ-3B/G2</a>	SJ-13 Shijian-13A; Shijian-13B	GEO satellite with electric propulsion system based on DFH-3B bus	
Apr??	<a href="#">Falcon 9</a>	NROL 76		
	Launch site: <a href="#">Cape Canaveral</a> , USA			
Apr??	<a href="#">Falcon 9</a> FT	Intelsat 35e		
May??	Minotaur-C XL	SkySat 8/9/10/11/12		
May??	<a href="#">Ariane 5</a> ECA	GSAT-17		
May??	<a href="#">Ariane 5</a> ECA	Al Yah 3		
May??	<a href="#">Falcon 9</a> FT	Inmarsat 5 F4		110
May??	<a href="#">Falcon 9</a> FT	SES 11		
??	<a href="#">GSLV</a> MK III D1	GSAT-19E		
	Launch site: <a href="#">Satish Dhawan Space Centre</a> , Sriharikota, India			
??	<a href="#">Ariane 5</a> ECA	GSAT-11		
June13.	<a href="#">Atlas 5</a> 541	NROL-42 Trumpet Follow On 2		
June14.	<a href="#">Soyuz-2</a> 1A	<a href="#">Progress MS</a> 6		
June15.	Pegasus-XL	ICON (Helio EX-1)		
June17.	<a href="#">Falcon 9</a> FT	<a href="#">Iridium Next</a> Flight 2 (x10)		
June28.	<a href="#">Ariane 5</a> ECA	EuropaSat (HellasSat 3)		
June29.	<a href="#">Soyuz-2</a> 1A / <a href="#">Fregat</a> M	<a href="#">Kanopus V</a> I K		
	Launch site: Байконур ( <a href="#">Baikonur</a> ) Cosmodrome, Kazakhstan			
June29.	<a href="#">Atlas 5</a> (531) (AV074)	AEHF-4		100
June??	<a href="#">Proton-M/Briz-M</a>	<a href="#">Blagovest (14Φ149)</a>		
	Launch site: Байконур ( <a href="#">Baikonur</a> ) Cosmodrome, Kazakhstan			
June??	<a href="#">CZ-2D</a>	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: <a href="#">Jiuquan</a> , China			
June??	<a href="#">CZ-3B/E</a>	Alcomsat-1		
June??	LS-1	LandSpace-1		
June??	<a href="#">Rokot / Briz KM</a>	Sentinel-5 Precursor		
June??	CZ-5	SJ-18 (DFH5 bus)		
July15.	0500GMT	Minotaur-4/Orion 38ORS-5: SensorSat		
July22.	<a href="#">Falcon 9</a> FT	Formosat 5		
July28.	<a href="#">Soyuz-2</a> 1A	<a href="#">Soyuz MS</a> 5 (S52/53)		
	CDR: Сергей Николаевич <b>РЯЗАНСКИЙ</b> (Sergei N. Ryazansky), Paolo Nespoli (ESA), Randolph J. Bresnik			
July??	<a href="#">GSLV</a> MK II F11	GSAT-6A		
July??	<a href="#">CZ-3B/YZ-1</a>	Beidou 3 <b>MEO M1</b> , Beidou 3 <b>MEO M2</b>		
July??	<a href="#">Falcon 9</a> FT	KoreaSat 5A		90



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??	<a href="#">Proton-M/Briz-M</a>	AsiaSat-9	
Aug01.	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-12	
Aug03.	1240UTC <a href="#">Atlas 5</a> 401 (AV075)	TDRS-M	
Aug24.	<a href="#">Falcon 9</a> FT	<a href="#">Iridium Next</a> Flight 3 (x10)	
Aug31.	<a href="#">Atlas 5</a> 421 (AV076)	NROL-52 (Quasar 21)	
Aug??	<a href="#">Vega</a> (VV10) Venµs, OPTSAT 3000		
Aug??	<a href="#">CZ-2C</a>	ZH-1 Zengheng 1 (ESEM experimental satellite on Electromagnetism Monitoring)	
Aug??	<a href="#">CZ-2D</a>	Fengmaniu-1	
??	Epsilon (Jap)	ASNARO 2	
??	<a href="#">Proton-M/Briz-M</a>	Hispasat 1f	80
Sep12.	<a href="#">Soyuz-2</a> 1A <a href="#">Soyuz MS</a> 6 (S53/54)		
CDR: Александр Александрович <b>МИСУРКИН</b> (Aleksandr A. Misurkin), Mark T. Vande Hei			
Sep23.	Delta II 7920-10C	<a href="#">JPSS-1</a>	
Sep30.	Falcon Heavy	STP-02	
Sep??	<a href="#">CZ-2D</a>	VRSS-2 (Bolivia Remote Sensing Satellite)	
Sep??	<a href="#">CZ-3B/G2</a>	ZX-6C Zhongxing-6C	
Sep??	<a href="#">CZ-2D</a>	GF-5 Gaofen-5	
Sep??	Zenit 3-SLB / DM-SLB	AngoSat	
Sep??	<a href="#">CZ-4B</a>	FY-3D Feng Yun-3D	
Sep??	<a href="#">CZ-3B/YZ-1</a>	<a href="#">Beidou 3 MEO M3</a> , <a href="#">Beidou 3 MEO M4</a>	
??	<a href="#">Rokot / Briz KM</a>	<a href="#">Gonets</a> x 3 (No 24,25,26), Blits-M	
Launch site: Плесецк ( <a href="#">Plesetsk</a> ) Cosmodrome, Russia			70
??	<a href="#">Falcon 9</a> FT	Es'hail 2	
??	<a href="#">Falcon 9</a> FT	SES-16	
??	<a href="#">Falcon 9</a> FT	ORS-6	
??	<a href="#">Rokot / Briz KM</a>	Geo IK 2	
??	<a href="#">Soyuz-2-1V</a> / Volga	Гонец-M1	
??	<a href="#">PSLV</a>	IRNSS-1H	
??	<a href="#">Proton-M/Briz-M</a>	Kosmos	
??	<a href="#">Falcon 9</a> FT	BulgariaSat	
??	Falcon H	Demo Flight	
Oct01.	<a href="#">Antares</a> 230	<a href="#">Cygnus</a> Orb-8	60
Oct12.	<a href="#">Soyuz-2</a> 1A	<a href="#">Progress MS</a> 7	
Oct18.	<a href="#">Delta IV</a> -M+ (5,2)	NROL-47 (Topaz 5)	
Oct??	<a href="#">Falcon 9</a> FT	SAOCAM 1A	
Oct??	<a href="#">Ariane 5</a>	Hylas 4	
Oct??	CZ	Ministar-1	
Oct??	<a href="#">Ariane 5</a> ECA	EDRS-C (Hylas 3)	



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Oct??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-13	
Oct??	CZ-11	TY-2, 3, 4, 5 Tianyi	
Oct??	<a href="#">Falcon 9</a> FT	<a href="#">Iridium Next</a> Flight 4 (x10)	
Oct??	<a href="#">CZ-3B/YZ-1</a>	<a href="#">Beidou 3 MEO M5</a> , <a href="#">Beidou 3 MEO M6</a>	50
Nov09.	<a href="#">Atlas 5</a> 401 (AV078)	SBI RS-GEO 4	
Nov30.	<a href="#">Soyuz-2</a> 1A <a href="#">Soyuz MS</a> 7 (S54/55)		
CDR: Александр Александрович <b>Скворцов</b> (Alexander Skvortsov), Norishige Kanai, Scott Tingle			
Nov??	<a href="#">Falcon 9</a>	Dragon v2 unmanned test	
Nov??	<a href="#">Rokot / Briz KM</a>	Sentinel 3B	
Nov??	CZ-5	Chang'e-5 (Sample return)	
Nov??	<a href="#">Soyuz-2</a> 1A / Fregat	Kanopus V 3, Kanopus V 4	
??	<a href="#">Ariane 5</a> ES	<a href="#">Galileo-FOC</a> FM15 (Nicole), <a href="#">Galileo-FOC</a> FM16 (Zofia), <a href="#">Galileo-FOC</a> FM17	
(Alexandre), <a href="#">Galileo-FOC</a> FM18 (Irina)			
??	<a href="#">Falcon 9</a> FT	SES-14 / GOLD	
??	<a href="#">Proton-M/</a> DM 3	Electro-L N3	
??	<a href="#">Falcon 9</a> FT	Amazonas 5	40
Dec16.	<a href="#">Falcon 9</a> FT	Bangabandhu-1	
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="#">PSLV</a>	Team Indus	
Dec??	<a href="#">Vega</a> (VV11) Aeolus / ADM		
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 MEO M7</a> , <a href="#">Beidou 3 MEO M8</a>	
Dec??	<a href="#">CZ-3C</a>	<a href="#">Beidou 2 G8</a>	
??	<a href="#">Falcon 9</a> FT	PSN VI	30
??	<a href="#">Falcon 9</a> FT	PAZ	
??	<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="#">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>	??
??	<a href="#">Soyuz-2-1B</a>	Pion	
??	<a href="#">Soyuz-2-1B</a>	Labirint 11	20
??	<a href="#">Ariane 5</a> ECA	BSat 4a	
??	<a href="#">Ariane 5</a> ECA	SES 12	
??	<a href="#">Ariane 5</a> ECA	Azerspace 2 (Intelsat 38)	
??	<a href="#">CZ-3B/G2</a>	ZX-16 Zhongxing-16 (DFH-4E bus)	



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?? [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  
 ?? [CZ-2D](#) JL-3 Jilin-3

?? ?? LJ-1 Luojia-1  
 ?? CZ Tianyi  
 ?? [CZ-4C](#) Hede-1

?? [PSLV](#) IRNSS-1I

?? [H-2A](#) [IGS Optical-6](#)  
 ?? [H-2A](#) [QSZ-3](#)

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

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

2 + (26)  
 14 + (132)

2018.

Jan?? [Vega](#) Seosat (Ingenio)

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

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](#)

?? [Soyuz-2-1B/Fregat](#) Glonass K2 / 13  
 ?? [Soyuz-2-1B/Fregat-M](#) Meteor M-2-2, Ionosfera 3, Ionosfera 4  
 ?? [Soyuz ST B/Fregat-MT](#) O3b

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

Mar30. [Soyuz-2](#) 1A [Soyuz MS](#) 8 (S55/56)  
 CDR: Сергей **Прокопьев** (Sergei V. Prokoryev, Олег Германович **Артемьев** (Oleg G. Artmyev), Andrew Feustel

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





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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??	<a href="#">PSLV</a>	Cartosat-3
Mar??	<a href="#">Atlas 5</a> (541)	GOES-S
Mar??	<a href="#">Atlas 5</a> 551	AFSPC-11
Mar??	<a href="#">Antares</a> 230	<a href="#">Cygnus</a> Orb-9
Mar??	<a href="#">Soyuz ST</a> B/Fregat-MT	OneWeb smalsat (x10)
Mar??	<a href="#">CZ-3B/YZ-1</a>	<a href="#">Beidou 3 MEO M11</a> , <a href="#">Beidou 3 MEO M12</a>

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

??	<a href="#">Delta IV</a> -M+(4,2)	GPS III-1
??	<a href="#">GSLV</a> MK III D2	GSAT-20

?? [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??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-15
Apr??	<a href="#">Soyuz-2</a> 1A	<a href="#">Progress MS</a> 9
Apr??	<a href="#">Falcon 9</a> FT	<a href="#">Iridium Next</a> 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??	<a href="#">Falcon 9</a>	GPS IIIA-2
May??	<a href="#">Falcon 9</a>	Dragon v2 manned test
May??	<a href="#">Ariane 5</a> ECA	GEO-KOMPSAT-2A
May??	<a href="#">CZ-3B/YZ-1</a>	<a href="#">Beidou 3 MEO M13</a> , <a href="#">Beidou 3 MEO M14</a>

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

??	<a href="#">Proton-M</a>	PTK NP
??	<a href="#">Vega</a>	TARANIS
??	<a href="#">Soyuz-2</a> 1B / <a href="#">Fregat</a> -M	Glonass K1 / 15
??	<a href="#">Soyuz ST</a>	CSO 1
??	<a href="#">Vega</a>	Prisma
??	<a href="#">Vega</a>	Cosmo-SkyMed Secon Gen 1 <a href="#">CSG-1</a>

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

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

July?? Delta 4-H Solar Probe Plus

Aug??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	EarthCare
Aug??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-16
Aug??	<a href="#">Atlas 5</a> 422	CST-100 Starliner (manned test)



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Aug??	<a href="#">CZ-3C</a>	<a href="#">Beidou 2 I7</a>
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x32)
Sep30.	<a href="#">Soyuz-2</a> 1A <a href="#">Soyuz MS</a> 10 (S57/58)	
	CDR: Геннадий Иванович <b>Падалка</b> (Padalka), <b>Бабкин</b> (Andrei Babkin), NASA probably Aunon	
Sep??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a> v1.1	USCV-1 (US Commercial Vehicles)
Sep??	<a href="#">CZ-3B/YZ-1</a>	<a href="#">Beidou 3 MEO M15</a> , <a href="#">Beidou 3 MEO M16</a>
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x32)
Oct15.	<a href="#">Ariane 5</a> ES	JWST (James Webb Space Telescope)
Oct16.	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 11
Oct31.	<a href="#">Atlas 5</a>	<a href="#">Solar Orbiter</a> (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/ <a href="#">Fregat</a> -M	MetOp-C
Oct??	<a href="#">CZ-3C</a>	<a href="#">Beidou 3 G1Q</a>
??	<a href="#">Proton-M</a> / DM-03	<a href="#">Glonass-M</a> /K16,K17,K18
??	<a href="#">Ariane 5</a> ECA	Intelsat 39
??	<a href="#">CZ-5</a>	<a href="#">Tian He</a> Space Station Core Module
Nov30.	<a href="#">Soyuz-2</a> 1A	Soyuz MS 11 (S58/59)
	CDR: <b>Кононенко</b> (Oleg Kononenko), Serena Onnon , David Saint-Jaques (Can)	
??	Minotaur 1	NROL 111
??	<a href="#">Soyuz ST</a> B/ <a href="#">Fregat</a> -MT	OneWeb smalsat (x32)
??	<a href="#">CZ7</a>	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)
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="#">Vega</a>	CHEOPS
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>	<a href="#">Beidou 3 MEO M17</a> , <a href="#">Beidou 3 MEO M18</a>
??	<a href="#">CZ-2F/G</a>	SZ-12 Shenzhou-12
??	Falcon H	Circumlunar Dragon V2
??	<a href="#">Soyuz-2-1B</a> / <a href="#">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
??	Minotaur-4	FORMOSAT-7 (6 sat)
??	<a href="#">Atlas 5</a> 551	AFSPC-7
??	??	Landsat 9



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??	??	AEHF 5
??	<a href="#">Soyuz-2 1B</a>	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-M</a>	Метеор-М №3
??	<a href="#">Soyuz-2-1V</a> / Volga	Обзор-О №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="#">Rokot / Briz KM</a>	<a href="#">Gonets</a> x 3 (No 27,28,29)
??	<a href="#">Proton-M/Briz-M</a>	AOneSat-1
??	<a href="#">Falcon 9</a> v1.2	Dragon v2
??	Soyuz-2.1B	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
??	<a href="#">Proton-M/Briz-M</a>	EutelSat 5 West B / MEV
??	<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</a> ES	<a href="#">Galileo-FOC</a> FM19 (Tara), <a href="#">Galileo-FOC</a> FM20 (Samuel), <a href="#">Galileo-FOC</a> FM21 (Anna), <a href="#">Galileo-FOC</a> FM22 (Ellen)
??	<a href="#">Ariane 5</a> ECA	Intelsat 37e
??	<a href="#">Ariane 5</a> ECA	Hellas-Sat-4
??	<a href="#">Ariane 5</a> ECA	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
??	<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





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??	<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			
??	CZ-4B	HY-1D Haiyang-1D	
??	CZ-4B	HY-2B Haiyang-2B	
??	<a href="#">GSLV</a> MK II	F12	GSAT-7A
??	<a href="#">GSLV</a> MK II	F10	GISAT
??	<a href="#">PSLV</a>		EnMap
??	<a href="#">Safir 1 B</a>	Tadbir	
??	Safir 3A	Pars sepher	
2019.			
Feb??	<a href="#">CZ-3C</a>	<a href="#">Beidou 3 I1Q</a>	
Mar30. <a href="#">Soyuz-2</a> 1A <a href="#">Soyuz MS</a> 12			
CDR: <b>Волков</b> (Volkov), <b>Кудь-Сверчков/Матвеев</b> (Serguei Kud'-Sverchkov/Denis Matveev), NASA			
??	<a href="#">Proton-M/</a>	DM3 3xGlonass K2 / K19, K20, K21	
Apr??	??	GOES-T	
Apr??		Epsilon SLIM (Smart Lander for Investigating Moon)	
Apr??	<a href="#">CZ-3B/E</a>	Nicasat 1	
Apr??	<a href="#">CZ-3C</a>	<a href="#">Beidou 3 I2Q</a>	
??	CZ7	TZ 3 Tianzhou 3 (Logistic Cargo Vehicle)	
??	CZ-2F/G	SZ-13 Shenzhou-13	
May??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-19	
May??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a> v1.1	USCV-3 (US Commercial Vehicles)	
June30.	<a href="#">Soyuz-2</a> 1A	Soyuz MS 13	
June??	<a href="#">Atlas 5</a> 401	STP-03	
June??	<a href="#">Ariane 5</a>	MTG-I1	
??	<a href="#">PSLV</a> C37	RISAT 1°	
??	<a href="#">CZ-3B/G2</a>	TECSTAR 1	
July??	<a href="#">CZ-3C</a>	<a href="#">Beidou 3 I3Q</a>	
Sep30.	<a href="#">Soyuz-2</a> 1A	Soyuz MS 14	
Sep??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Glonass K1 / 22	



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??	<a href="#">Falcon 9</a> FT	<a href="#">Dragon</a> SpX-20	
Oct??	<a href="#">Atlas 5</a> 552		Dream Chaser Cargo System
Oct??	<a href="#">CZ-3B/YZ-1</a>		Beidou 3 MEO M19, Beidou 3 MEO M20
Nov29.	<a href="#">Soyuz-2</a> 1a / <a href="#">Fregat</a>		Luna 25 (Luna-Glob-1)
??	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</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-2-1B/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>	



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2020.

July?? [CZ-3C](#) [Beidou 3 G2Q](#)

Mar30. Soyuz 2-1A Sojuz MS-15

Mar?? [Delta IV-M](#) DMSP-5D3 F20  
 Mar?? [Soyuz-2-1B/Fregat-M](#) Glonass K1 / 22

Apr?? [CZ-3B/YZ-1](#) [Beidou 3 MEO M23, Beidou 3 MEO M24](#)

?? CZ7 TZ 4 Tianzhou 4 (Logistic Cargo Vehicle)

?? CZ-2F/G SZ-14 Shenzhou-14

?? [CZ-3B/G2](#) ZX-18 Zhongxing-18

June?? [Atlas 5](#) 402 / [Falcon 9](#) v1.1 USCV-5 (US Commercial Vehicles)

June?? Ariane MTG-S1/Sentinel-4A

June?? [CZ-3C](#) [Beidou 3 G3Q](#)

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

?? [Proton-M/Briz-M](#) ExoMars (CM+DM)

July?? Atlas V (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.

?? CZ 5 [Mars probe](#) (orbiter + lander + rover)

Aug05. [Proton-M/Briz-M](#) 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

Sep30. Soyuz 2-1A Sojuz MS-16

Sep?? CZ CBERS-6

Sep?? [Soyuz-2-1B/Fregat-M](#) Glonass K2 / 15

Dec?? [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.

Dec?? Atlas V Landsat 9

Dec?? [Atlas 5](#) 402 / [Falcon 9](#) 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



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??	??	EX-4
??	??	ACE
??	??	HyspIRI
??	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
2021.		
Mar30.	<a href="#">Soyuz-2</a> -1A	Sojuz MS-17
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)
??	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)
Sep30.	<a href="#">Soyuz-2</a> -1A	Sojuz MS-18
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> 17
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 18
??	<a href="#">Soyuz-2</a>	<a href="#">Progress MS</a> 19
??	<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/Briz-M</a>	Ekspress – RV1, RV2
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Resurs PM - 2
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Meteor M No2-4
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Meteor M No2-5
??	<a href="#">Soyuz-2-1B/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.	<a href="#">Soyuz-2-1A</a>	Sojuz MS-19
Apr??	<a href="#">Angara</a> A5/ DM 03	Elektro M – 1-2
??	CZ7	TZ 6 Tianzhou 6 (Logistic Cargo Vechile)
??	CZ-2F/G	SZ-16 Shenzhou-16
June??	<a href="#">Ariane</a> 5ECA	JUICE (JUpiter ICy moon Explorer)
June??	Ariane 5	MTG-I2
June??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-9 (US Commercial Vehicles)
??	CZ-5B	Xuntian Lab module Space station module





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Aug??	H2B	Phobos sample return
Sep30.	<a href="#">Soyuz-2</a> -1A	Sojuz MS-20
Sep??	<a href="#">Soyuz ST</a> B/ <a href="#">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
??	Ariane 5	ATHENA
??	CZ	HY-3C Haiyang-3C
2023.		
Mar30.	<a href="#">Soyuz-2</a> -1A	Sojuz MS-21
June??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-11 (US Commercial Vehicles)
Sep30.	<a href="#">Soyuz-2</a> -1A	Sojuz MS-22
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 (unmanned 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 <a href="#">Proton/Briz-M</a> (or Angara) rocket to launch the <a href="#">Laplas-P</a> mission to orbit the moon of Jupiter Ganymede.	
??	Russia to launch a <a href="#">Luna-Grunt mission</a> (Luna-29) to return lunar soil samples from the polar regions of the Moon back to Earth.	
??	<a href="#">Proton-M/Briz-M</a>	Ekspress – AT3, AT4
??	<a href="#">Soyuz-2</a> -1B/ <a href="#">Fregat</a> -M	Resurs PM - 3
??	<a href="#">Angara</a> 1.2	<a href="#">Gonets</a> x 3
??	<a href="#">Soyuz-2</a> -1B	Obzor R -2



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??	<a href="#">Soyuz-2-1B</a>	Obzor O -1
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Ellips - 1
??	<a href="#">Angara A5P/DM03</a>	Dopler 1, 2
??	<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
2024		
Mar30.	<a href="#">Soyuz-2-1A</a>	Sojuz MS-23
June??	<a href="#">Atlas 5</a> 402 / <a href="#">Falcon 9</a>	USCV-13 (US Commercial Vehicles)
Sep30.	<a href="#">Soyuz-2-1A</a>	Sojuz MS-24
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)
2025		
??	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



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??	<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
??	<a href="#">Angara</a> A5P/KVTK	Enisei A-2
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Resonans 2A, 2B, MKA-PN5
??	<a href="#">Soyuz-2-1B/Fregat-M</a>	Smotr R N°2
??	CZ	Chang'e-7 (Moon south pole landing)
2026.		
Dec17.	<a href="#">Angara</a> A5P/KVTK	A mission to Venus (Venera D) would be launched
??	CZ	Jupiter Orbiter
??	CZ	Mars Sample Return
??	CZ	Chang'e-8 (Moon north pole landing)