



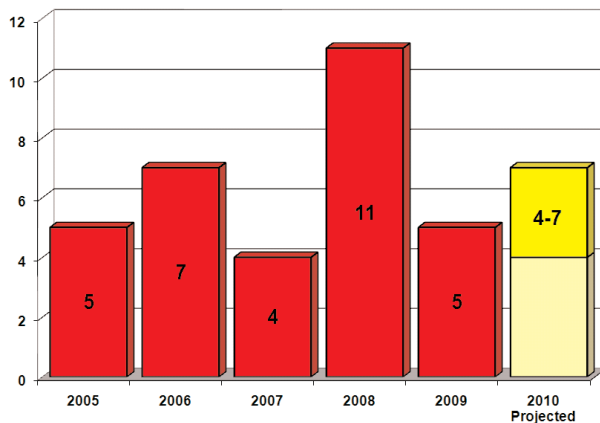
FIVE ORBITAL FAA-LICENSED LAUNCHES IN CALANDER YEAR 2009

In 2009 the Federal Aviation Administration's (FAA) Office of Commercial Space Transportation licensed five orbital launches valued at approximately \$398 million, including:

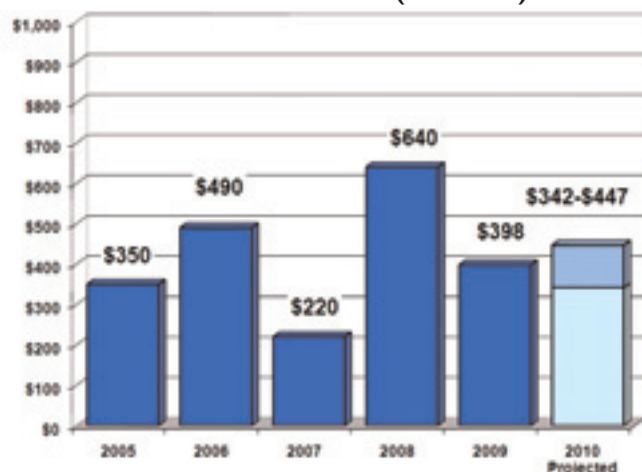
- One Delta II vehicle from Vandenberg Air Force Base;
- One Delta IV vehicle from Cape Canaveral;
- One Falcon 1 vehicle from Kwajalein Atoll;
- One Zenit 3SL launch conducted by the multinational service provider Sea Launch; and
- One Atlas V vehicle from Cape Canaveral.

This year's total FAA-licensed launches marks a decrease over last year's count. No commercial suborbital launches occurred in 2009.

FAA-Licensed Commercial Orbital and Suborbital Launch Trend



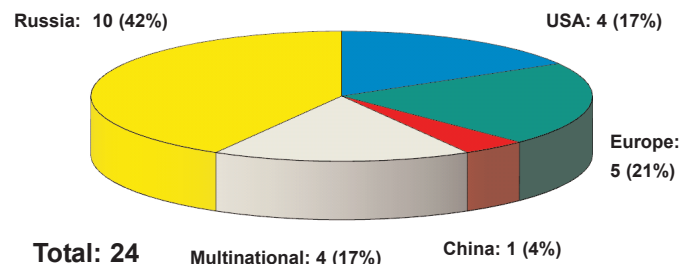
U.S. Commercial Orbital and Suborbital Launch Revenue Trend (Estimated)



GLOBAL ORBITAL COMMERCIAL LAUNCH MARKET SHARE FOR 2009

Russia continues to lead the market with ten launches in 2009. Europe matched its 2008 performance with five launches. The share of launches of vehicles manufactured by the United States decreased from 6 launches in 2008 to four launches in 2009. The multinational Sea Launch conducted one launch prior to entering bankruptcy in 2009. Land Launch conducted three launches in 2009. China returned to the commercial launch market with one launch.

Worldwide Distribution of Orbital Commercial Launches in 2009



FIVE-YEAR ORBITAL COMMERCIAL LAUNCH TRENDS WORLDWIDE

Twenty-four commercial orbital launches occurred in 2009, which is close to the five-year average of 23. Nineteen commercial launches to geosynchronous orbit occurred, marking a five-year high. Only five launches to non-geosynchronous orbits occurred, tying the previous low in 2006. The U.S. (excluding Sea Launch) conducted an average of three commercial orbital launches per year from 2005 to 2009, while Europe and Russia have conducted an average of five and ten, respectively. The multinational ventures, Sea Launch and Land Launch, conducted an average of four launches.

FAA-LICENSED VEHICLES LAUNCHED IN 2009

	Sea Launch	United States			
Vehicle	Zenit 3SL	Falcon 1	Delta II	Delta IV	Atlas V
FY 2009 Total Launches	1	1	8	3	5
FY2009 Licensed Launches	1	1	1	1	1
FY 2009 Reliability	1/1 (100%)	1/1 (100%)	8/8 (100%)	3/3 (100%)	5/5 (100%)
10-Year Reliability	26/28 (93%)	2/5 (40%)	60/60 (100%)	11/11 (100%)	19/19 (100%)
Maximum LEO Capacity - kg (lb)	15,246 (33,541)	454 (1,000)	6,100 (13,440)	22,560 (49,740)	20,520 (45,240)
Maximum GEO Capacity - kg (lb)	6,100 (13,440)	-	2,170 (4,790)	12,980 (28,620)	8,670 (19,110)



WORLDWIDE ORBITAL AND SUBORBITAL COMMERCIAL LAUNCH EVENTS IN 2009

Date	Vehicle	Site	Payload(s)	Operator	Manufacturer	Use	Commercial Price	L	M
United States									
6/27/2009	✓ Delta IV Medium	Cape Canaveral	GOES O	NOAA	The Boeing Company	Weather	\$100-180M	S	S
7/13/2009	✓ Falcon 1	Kwajalein	RazakSAT	Malaysia National Space Agency	Astronautic Tech. (M) Sdn Bhd	Remote Sensing	\$7-9M	S	S
10/8/2009	✓ Delta II	Vandenberg	* WorldView 2	DigitalGlobe	Ball Aerospace & Tech. Corp.	Remote Sensing	\$60-70M	S	S
11/23/2009	✓ Atlas V	Cape Canaveral	* Intelsat 14	Intelsat	Space Systems/Loral	Communications	\$110-140M	S	S
China									
8/31/2009	Long March 3B	Xichang	* Palapa D	PT Indosat Tbk	Thales Alenia Space	Communications	\$60-80M	P	S
Europe									
2/12/2009	Ariane 5 ECA	Kourou	* Hot Bird 10 * NSS 9 SPIRALE 1 SPIRALE 2	Eutelsat SES World Skies DGA DGA	EADS Astrium Orbital Sciences Corp. Alcatel Espace Alcatel Espace	Communications Communications Communications Communications	\$200-220M	S	S
7/1/2009	Ariane 5 ECA	Kourou	* TerreStar 1	TerreStar Networks Inc.	Space Systems/Loral	Communications	\$140M	S	
8/21/2009	Ariane 5 ECA	Kourou	* Optus D3 * JCSAT 12	Singtel/Optus Japan Satellite Systems (JSAT)	Orbital Sciences Corp. Lockheed Martin	Communications Communications	\$200-220M	S	S
10/1/2009	Ariane 5 ECA	Kourou	* Amazonas 2	Hispasat	EADS Astrium	Communications	\$200-220M	S	S
10/29/2009	Ariane 5 ECA	Kourou	* COMSATBw 1 * NSS 12 * Thor 6	German Defense Ministry SES World Skies Telenor A.S.	EADS Astrium Space Systems/Loral Thales Alenia Space	Communications Communications Communications	\$200-220M	S	S
Multi-National									
2/26/2009	Zenit 3SLB	Baikonur	* Telstar 11N	Loral Skynet	Space Systems/Loral	Communications	\$55-65M	S	S
4/20/2009	✓ Zenit 3SL	Odyssey Platform	Sicral 1B	Italian Ministry of Defense	Thales Alenia Space	Communications	\$80-100M	S	S
6/21/2009	Zenit 3SLB	Baikonur	* Measat 3A	MEASAT Satellite Systems Sdn. Bhd.	Orbital Sciences Corp.	Communications	\$55-65M	S	S
12/1/2009	Zenit 3SLB	Baikonur	* Intelsat 15	Intelsat	Orbital Sciences Corp.	Communications	\$55-65M	S	S
Russia									
3/17/2009	Rocket	Plesetsk	GOCE	European Space Agency	Thales Alenia Space	Scientific	\$10-15M	S	S
4/3/2009	Proton M	Baikonur	* Eutelsat W2A	Eutelsat	Thales Alenia Space	Communications	\$90-100M	S	S
5/16/2009	Proton M	Baikonur	* Protostar II	Protostar Ltd.	Boeing Satellite Systems	Communications	\$90-100M	S	S
7/1/2009	Proton M	Baikonur	* Sirius FM-5	Sirius Satellite Radio Inc.	Space Systems/Loral	Communications	\$90-100M	S	S
7/29/2009	Dnepr 1	Baikonur	* AprizeStar 3 * AprizeStar 4 * DEIMOS DubaiSat-1	Aprize Satellite Aprize Satellite Deimos Imaging SL EIAST	SpaceQuest, Ltd. SpaceQuest, Ltd. Surrey Satellite Technology Ltd. KARI	Communications Communications Remote Sensing Remote Sensing	\$10-15M	S	S
			Nanosat 1B	Instituto Nacional de Tecnica Aeroespacial	Inst. Nacional de Tecnica Aero.	Communications		S	
			UK DMC 2	British National Space Centre	Surrey Satellite Technology Ltd.	Remote Sensing		S	
8/11/2009	Proton M	Baikonur	* Asiasat 5	Asia Satellite Telecommunications Co.	Space Systems/Loral	Communications	\$90-100M	S	S
9/18/2009	Proton M	Baikonur	* Nimiq 5	Telesat Canada	Space Systems/Loral	Communications	\$90-100M	S	S
11/2/2009	Rocket	Plesetsk	SMOS	European Space Agency	Thales Alenia Space	Scientific	\$10-15M	S	S
			Proba 2	European Space Agency	Verhaert Design & Development	Development		S	S
11/23/2009	Proton M	Baikonur	* Eutelsat W7	Eutelsat	Thales Alenia Space	Communications	\$90-100M	S	S
12/29/2009	Proton M	Baikonur	* DirecTV 12	DirecTV	The Boeing Company	Communications	\$90-100M	S	S

Commercial prices are estimates only.

* Denotes a commercial payload, defined as a spacecraft which serves a commercial function or is operated by a commercial entity.

✓ Denotes a commercial launch licensed by the Federal Aviation Administration's (FAA) Office of Commercial Space Transportation.

L Denotes launch outcome (S-Success, F-Failure, and P-Partial). M denotes mission outcome (S-Success, F-Failure, and P-Partial).

FAA-PERMITTED LAUNCHES IN 2009

Flight Date	Operator	Vehicle	Launch Site
No FAA-permitted launches in 2009			