FACT SHEET

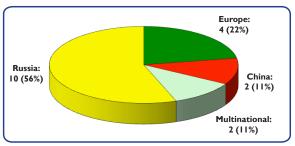
CY 2011 Year in Review

ONE ORBITAL FAA-LICENSED LAUNCH IN CALENDAR YEAR (CY) 2011

In CY 2011, the Federal Aviation Administration's (FAA) Office of Commercial Space Transportation (AST) licensed one orbital launch of a Zenit 3SL vehicle from the Sea Launch Odyssey Platform.

The total for this year's FAA-licensed launches is three fewer than last year's count. No commercial suborbital launches occurred in CY 2011.

Worldwide Distribution of Orbital Commercial Launches in CY 2011



FAA-Licensed Vehicles Launched in CY 2011



OTHER CY 2011 FAA LICENSES AND PERMITS

In CY 2011, two suborbital launches occurred under an FAA Experimental Permit. Both were conducted by Blue Origin, using the PM-2 vehicle.

Flight Date	Operator	Vehicle	Launch Site
06-May-11	Blue Origin	PM-2	West Texas
24-Aug-11	Blue Origin	PM-2	West Texas

For CY 2012, it is projected that there will be an increase in the number of experimental permits issued by FAA/AST due to continued testing in the suborbital market.

In CY 2011, there were no reentries conducted under an FAA reentry license. The NASA COTS and CRS missions in 2012 are expected to use FAA reentry licenses.



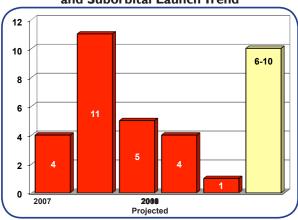
FIVE-YEAR ORBITAL COMMERCIAL LAUNCH TRENDS WORLDWIDE

During the five-year period from CY 2007 to CY 2011, there was an average of 16 commercial launches to geosynchronous orbit worldwide per calendar year, with a low of 13 in CY 2007 and a high of 19 in CY 2009. In the same period, there was an average of eight commercial launches to non-geosynchronous orbit worldwide per calendar year, with a low of three in CY 2011 and a high of 12 in CY 2007.

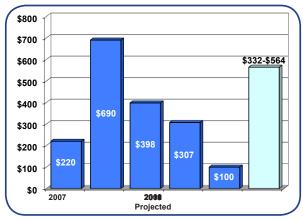
During the five-year period, there was an average of 23 commercial orbital launches worldwide per calendar year. For CY 2011, the total number of worldwide commercial orbital launches (18) is below the five-year calendar average. CY 2011 had five fewer launches than the 23 commercial launches in CY 2010 and was 10 launches below the five-year high of 28 in CY 2008. The U.S. conducted an average of three commercial launches per year from CY 2007 to CY 2011, while Sea Launch conducted an average of three, Europe an average of five, and Russia an average of 11.

Six to ten FAA-licensed commercial orbital launches are projected for CY 2012. This is due to an increase of NASA COTS/CRS launches on the Falcon 9 and Antares vehicles, as well as the continued use by Sea Launch of the Zenit 3SL vehicle, and possible suborbital launches. The first commercial suborbital launch, Virgin Galactic's SpaceShipTwo, is projected for late CY 2012.

FAA-Licensed Commercial Orbital and Suborbital Launch Trend



FAA-Licensed Commercial Orbital and Suborbital Launch Revenue Trend



Worldwide Orbital and Suborbital Commercial Launch Events in CY 2011

Date	Vehicle	Site		Payload(s)	Operator	Manufacturer	Use	Commercial Price	L	М
EUROPE		_								
04-22-2011	Ariane 5 ECA	Kourou	*	Yahsat IA Intelsat New Dawn	Yah Satellite Communications Co. Intelsat	EADS Astrium Orbital Sciences Corp.	Communications Communications	\$220M	S	S S
05-20-2011	Ariane 5 ECA	Kourou	*	Insat 4G/GSAT 8 ST 2	ISRO Singapore Telecom	ISRO Mitsubishi Electric Corp.	Communications Communications	\$220M	S	S S
08-06-2011	Ariane 5 ECA	Kourou	*	Astra IN BSAT-3c/JCSAT-110R	SES Astra Sky Perfect JSAT Corp.	EADS Astrium Lockheed Martin	Communications Communications	\$220M	S	S S
09-21-2011	Ariane 5 ECA	Kourou	*	Arabsat 5C SES-2	Arabsat SES World Skies	EADS Astrium Orbital Sciences Corp.	Communications Communications	\$220M	S	S S
MULTINA	TIONAL									
09-24-2011	√ Zenit 3SL	Pacific	*	Atlantic Bird 7	Eutelsat	EADS Astrium	Communications	\$100M	S	S
10-06-2011	Zenit 3SLB	Baikonur	*	Intelsat 18	Intelsat	Orbital Sciences Corp.	Communications	\$100M	S	S
RUSSIA										
05-20-2011	Proton M	Baikonur	*	Telstar I4R	Telesat	Space Systems/Loral	Communications	\$85M	S	S
07-13-2011	Soyuz 2 I A	Baikonur	* * * * *	Globalstar 2nd Gen 07 Globalstar 2nd Gen 08 Globalstar 2nd Gen 09 Globalstar 2nd Gen 10 Globalstar 2nd Gen 11 Globalstar 2nd Gen 12	Globalstar, Inc.	Thales Alenia Space Thales Alenia Space Thales Alenia Space Thales Alenia Space Thales Alenia Space Thales Alenia Space	Communications Communications Communications Communications Communications Communications	\$50M	S	S S S S S
07-15-2011	Proton M	Baikonur	*	SES-3 KazSat 2	SES World Skies JSC Kazsat	Orbital Sciences Corp. Khrunichev State Research & Productions Space Center	Communications Communications	\$85M	S	S S
08-17-2011	Dnepr M	Dombaroskiy	*	Nigeriasat 2 NX RASAT SIch 2 Edusat BPA 2 AprizeSat 5 AprizeSat 6	NASRDA NASRDA TUBITAK-UZAY National Space Agency of Ukraine Italian Space Agency Hartron-Arkos ExactEarth Ltd. ExactEarth Ltd.	Surrey Satellite Technology Ltd. Surrey Satellite Technology Ltd. TUBITAK-UZAY NPO Yuzhnoye University of Rome Hartron-Arkos SpaceQuest Ltd. SpaceQuest Ltd.	Remote Sensing Remote Sensing Remote Sensing Remotes Sensing Scientific Development Communications Communications	\$12M	S	S S S S S S
08-17-2011	Proton M	Baikonur	*	Express AM4	Russian Satellite Communications Co.	Khrunichev/Astrium Satellites	Communications	\$85M	F	F
09-29-2011	Proton M	Baikonur	*	QuetzSat-I	QuetzSat	Space Systems/Loral	Communications	\$85M	S	S
10-19-2011	Proton M	Baikonur	*	ViaSat I	ViaSat	Space Systems/Loral	Communications	\$85M	S	S
11-25-2011	Proton M	Baikonur	*	Asiasat 7	Asiasat	Space Systems/Loral	Communications	\$85M	S	S
12-11-2011	Proton M	Baikonur	*	Luch 5A Amos 5	Roscosmos SpaceCom Ltd.	Reshetnev Company Reshetnev Company	Communications Communications	\$85M	S	S S
12-28-2011	Soyuz 2 I A	Baikonur	* * * *	Globalstar 2nd Gen 13 Globalstar 2nd Gen 14 Globalstar 2nd Gen 15 Globalstar 2nd Gen 16 Globalstar 2nd Gen 17 Globalstar 2nd Gen 18	Globalstar, Inc. Globalstar, Inc. Globalstar, Inc. Globalstar, Inc. Globalstar, Inc. Globalstar, Inc.	Thales Alenia Space Thales Alenia Space Thales Alenia Space Thales Alenia Space Thales Alenia Space Thales Alenia Space	Communications Communications Communications Communications Communications Communications	\$50M	S	S S S S S
CHINA										
10-07-2011	Long March 3B	Xichang	*	Eutelsat W3C	Eutelsat	Thales Alenia Space	Communications	\$70M	S	S
12-19-2011	Long March 3B	Xichang	*	NigComSat 1R	Nigerian Communication Satellite Ltd.	CAST	Communications	\$70M	S	S

^{*} Denotes a commercial payload, defined as a spacecraft that serves a commercial function or is operated by a commercial entity. Commercial prices are estimates only.

[√] Denotes a commercial launch licensed by the Federal Aviation Administration Office of Commercial Space Transportation (FAA/AST).

A commercial suborbital or orbital launch has one or more of the following characteristics:

The launch is licensed by FAA/AST.
 The primary payload's launch contract was internationally competed. A primary payload is generally defined as the payload with the greatest mass on a launch vehicle for a given launch.
 The launch is privately financed without government support.

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