



Box Score of 2011 Space Launches

The following table provides a “box score” of space launches that were conducted in 2011. The table was prepared by SpacePolicyOnline.com using data and information from [Jonathan’s Space Report](#), issued periodically by Jonathan McDowell; the [Space Track](#) website, which provides government-acquired data to the public (login required) about satellites and space launches; and news articles and various websites. Similar tables for 2009 and 2010 are available from SpacePolicyOnline.com.

Country/Organization	Successes	Failures*	
		Partial	Complete
Russia	27	3	2
United States	17	0	1
Europe/Arianespace	8	0	0
China	18	0	1
Japan	3	0	0
India	3	0	0
Iran	1	0	0
Israel	0	0	0
North Korea	0	0	0
South Korea	0	0	0
Total	77	3	4

Notes: This is a count of space *launches*, not the number of satellites (“payloads”) that were launched. Multiple payloads often are placed into orbit on a single launch.

“Country/Organization” refers to the location of the launch site, except for Sea Launch, which is launched from the ocean. Since that company now is majority-owned by Russian entities, its launches are counted as Russian. Launches by Starsem, a Russian-European joint venture, are shown as Russia if the launch took place from a Russian launch site, or European if the launch took place from Europe’s launch site in Kourou. Launches by ILS, a U.S.-Russian joint venture, are shown as Russian since they take place from Russia.

Notes continue on next page

*A complete launch failure means the payload did not reach orbit. A partial launch failure means the payload reached orbit, but not the intended orbit and the primary mission failed as a result. "Partial failures" include cases where a payload can serve a useful purpose even though it did not reach the intended orbit, or when engines aboard the spacecraft can be used to reach the intended orbit after a launch vehicle malfunction. The category also includes cases where the first stages of a launch vehicle successfully place a spacecraft into orbit, but upper stages malfunction rendering the mission unsuccessful. An example is Russia's Phobos-Grunt mission that reached Earth orbit successfully, but was not sent on its way to Mars. That counts as a partial failure in this table. For 2011, Russia's three partial failures were: GEO-IK2, Express AM-4, and Phobos-Grunt. The two complete failures were Progress M-12M and Meridian (a military communications satellite), neither of which reached orbit.