

**Iranian satellite launches** - Jonathan McDowell  
v.2 - 2019 Feb 7

Here is a list of Iranian satellite launch attempts and related flights. The Safir was similar to the North Korean Paektusan and the first stage is thought to be based on the Hwasong-7 (Nodong). The Simorgh is similar to the North Korean Unha. The Simorgh/Unha first stage is not derived from a missile and was developed for space launch.

In the table, "SO" indicates a probable suborbital test of the vehicle with only two of the three stages used. Evidence of the 2012 failures consists of satellite imagery of pad activity and pad damage, but is not decisive proof launches occurred. There is even less evidence for the 2014 attempt. However the overall evidence for planned launch activity in 2012-2014 coupled with the absence of a successful launch does make it more likely than not that at least one failure did happen.

Code	Launch (UTC)	Vehicle	S/N	Payload	Mass/kg	Result	Orbit
<i>2008-S89</i>	<i>2008 Feb 4?</i>	<i>Safir</i>	HUS.0001	SO?	-	Unconfirmed, success?	-
2008-F02	2008 Aug 16 1932	Safir	OES.0001	Omid	25	Stage 2 Failure?	-
2009-004	2009 Feb 2 1834?	Safir	GBS.0092	Omid	25	Success	245 x 377 x 55.5
2011-025	2011 Jun 15 0915	Safir	UIS.0001	Rasad	13	Success	233 x 271 x 55.7
2012-005	2012 Feb 3 0004?	Safir	ERS.2002	Navid	50	Success	275 x 373 x 56.0
2012-F02	2012 May 23?	Safir	?	Fajr (1)?	50	Stage 1 Failure?	Unconfirmed
2012-F03	2012 Sep 22?	Safir	?	Fajr (2)?	50	Stage 1 Failure?	Unconfirmed
	<i>2014 Mar 20</i>	<i>Safir</i>	?	Tadbir	50?	Stage 3 early shutdown?	Unconfirmed
2015-006	2015 Feb 2 0852	Safir	LBS.2001	Fajr (3)	52	Success	224 x 469 x 55.5
<i>2016-S25</i>	<i>2016 Apr 19 0933</i>	<i>Simorgh</i>	(1)	SO?	-	Success?	-
2017-F04	2017 Jul 27 0930?	Simorgh	(2)	Test sat	80?	Stage 2 Failure	-
2019-F01	2019 Jan 15 0030	Simorgh	(3)	Payam	90	Stage 3 Failure	-
2019-F02	2019 Feb 5	Safir		Dousti	50	Stage 1 Failure?	-