HISTORICAL ANALYSIS · 2006–2026

Rocket Launch Success and Failure Rates by Year

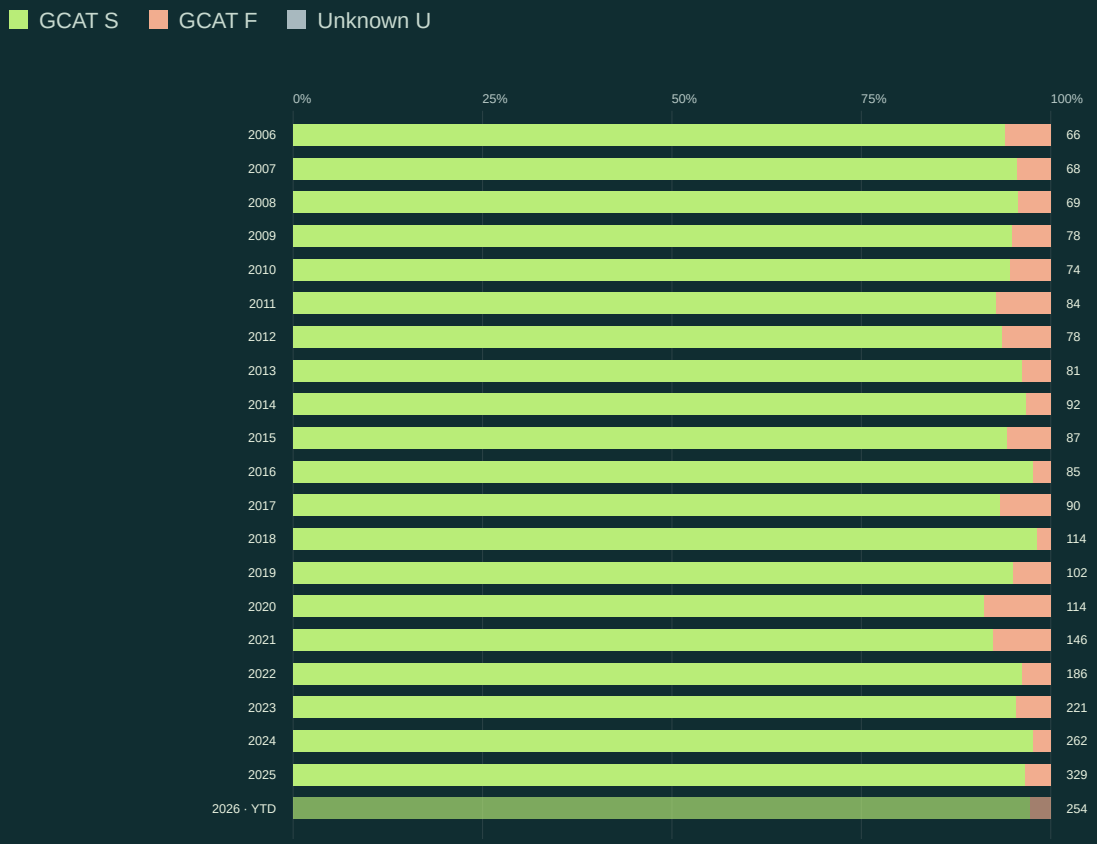
Annual GCAT launch outcomes, with explicit denominators and partial-result codes kept intact.

Source snapshot · 29 October 2026 GCAT / Jonathan McDowell Scope · O + D

RECORDED LAUNCHES	GCAT S / KNOWN	GCAT F	PARTIAL CODES
2,680	95.63%	117	30
O + D · includes incomplete latest year	2,563 S out of 2,680 known outcomes	Retains GCAT failure classification	Overlaps S/F; not an extra category

Outcome composition by year

Bars show shares of all launches; numbers at right show annual totals. Faded rows are incomplete.



Source: GCAT · Unique launch identifiers

S/F is the source classification, not full mission success

> 2026 is incomplete: 254 launches are recorded in this snapshot year. No annual growth comparison with the previous full year is made.

READING THE DATA

What the record shows

01

Source-defined outcomes

The snapshot contains 2,563 S-classified and 117 F-classified launches. Among known outcomes, the S share is 95.63%.

02

Partial results remain explicit

30 launches have a numeric partial-result suffix. They remain in their original S or F group and are not added again to the total.

03

Unknown-outcome denominator

0 launches have an unknown outcome. They remain in annual totals but are excluded from the S-rate denominator.

THE UNDERLYING NUMBERS

Annual outcomes and known-outcome rate

S rate = S ÷ (S + F). Partial codes overlap S/F. U is excluded only from the rate denominator.

Rocket Launch Success and Failure Rates by Year · 2006–2026

YEAR	S	F	U	PARTIAL	S / KNOWN	COVERAGE
2006	62	4	0	1	93.94%	Full year
2007	65	3	0	2	95.59%	Full year
2008	66	3	0	1	95.65%	Full year
2009	74	4	0	2	94.87%	Full year
2010	70	4	0	0	94.59%	Full year
2011	78	6	0	2	92.86%	Full year
2012	73	5	0	3	93.59%	Full year

YEAR	S	F	U	PARTIAL	S / KNOWN	COVERAGE
2013	78	3	0	0	96.30%	Full year
2014	89	3	0	2	96.74%	Full year
2015	82	5	0	2	94.25%	Full year
2016	83	2	0	1	97.65%	Full year
2017	84	6	0	3	93.33%	Full year
2018	112	2	0	1	98.25%	Full year
2019	97	5	0	0	95.10%	Full year
2020	104	10	0	0	91.23%	Full year
2021	135	11	0	2	92.47%	Full year
2022	179	7	0	1	96.24%	Full year
2023	211	10	0	1	95.48%	Full year
2024	256	6	0	3	97.71%	Full year
2025	318	11	0	2	96.66%	Full year
2026	247	7	0	1	97.24%	Incomplete · YTD

TRANSPARENT BY DESIGN

Methodology & sources

Snapshot coverage

Data retrieved 29 October 2026. Latest recorded launch: 2026-10-27T07:25:23Z. The snapshot year remains incomplete regardless of when this report is generated.

Outcome classification

We preserve result_code S/F/U, including partial codes such as OS65 and OF40. An S label is not proof of complete payload or mission success. Numeric suffixes are not used to reassign labels. Rates describe this historical snapshot, not future reliability. Chart percentages use all outcomes; the table rate uses known outcomes only.

Scope and limitations

Unique O (orbital) and D (deep-space) launches are included, including failures. N flights and events without liftoff are excluded. The source classification is retained. These results describe the snapshot; they do not establish causes or forecast future activity.

Attribution

Data from GCAT — Jonathan C. McDowell, CC BY 4.0. Compatisto aggregates and visualizes the records. · Field documentation.

Source SHA-256
ee70d1d8b7cb72a239f60a996c061cd1ddf4fed493686f2d8e8333a83a91d5c3