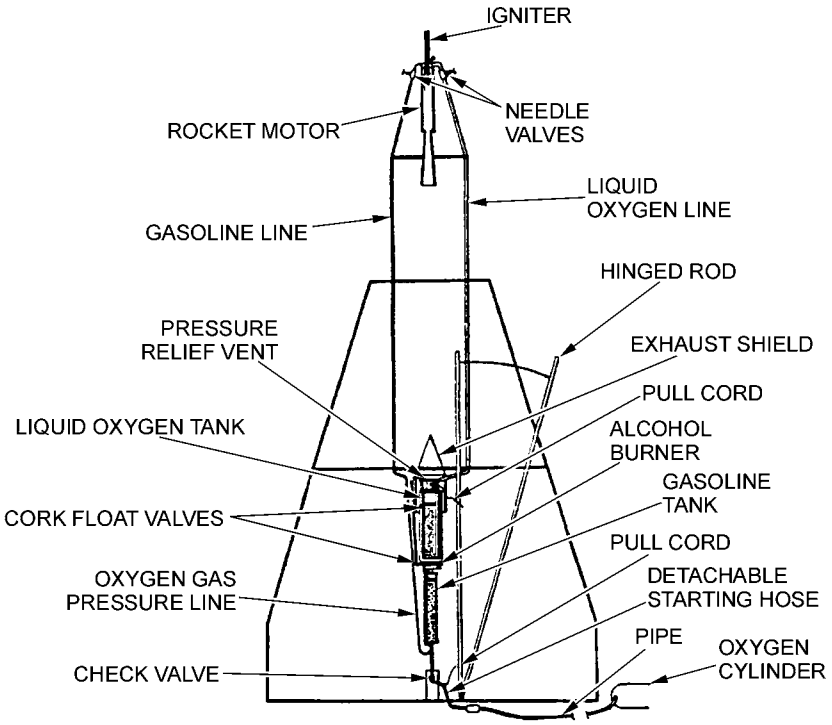
SPACE FLIGHT HISTORY



"A Beginner's Guide to Rockets", Rocket Gallery. Retrieved March 24, 2007, from http://exploration.grc.nasa.gov/education/rocket/gallery.html

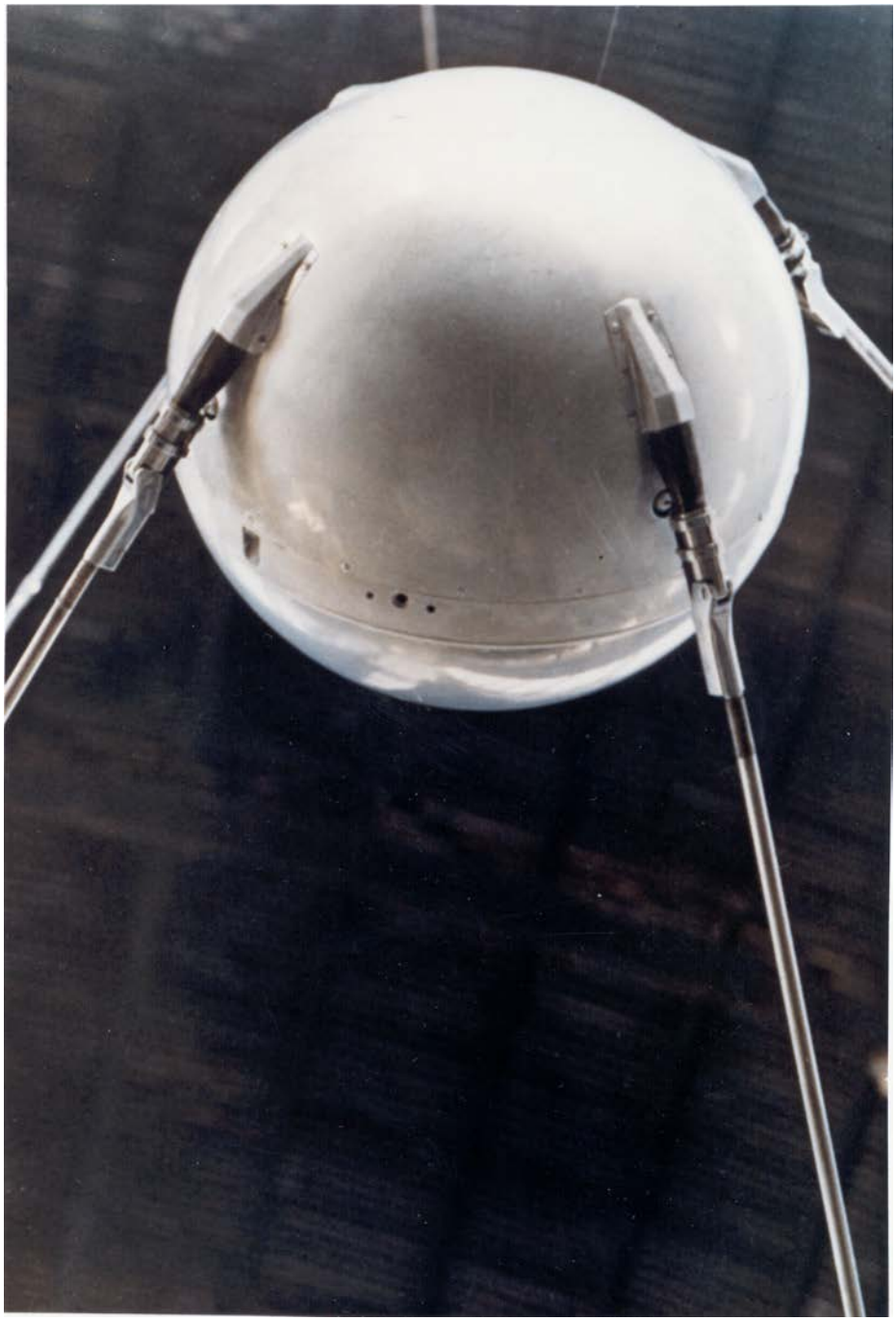
Figure P-1 Dr. Robert Goddard, Father of Modern Rocketry



"Rockets", A Brief History of Rockets. Retrieved March 24, 2007, from http:// www.grc.nasa.gov/WWW/K-12/TRC/Rockets/history_of_rockets.html

Figure P-2 Goddard's 1926 Rocket

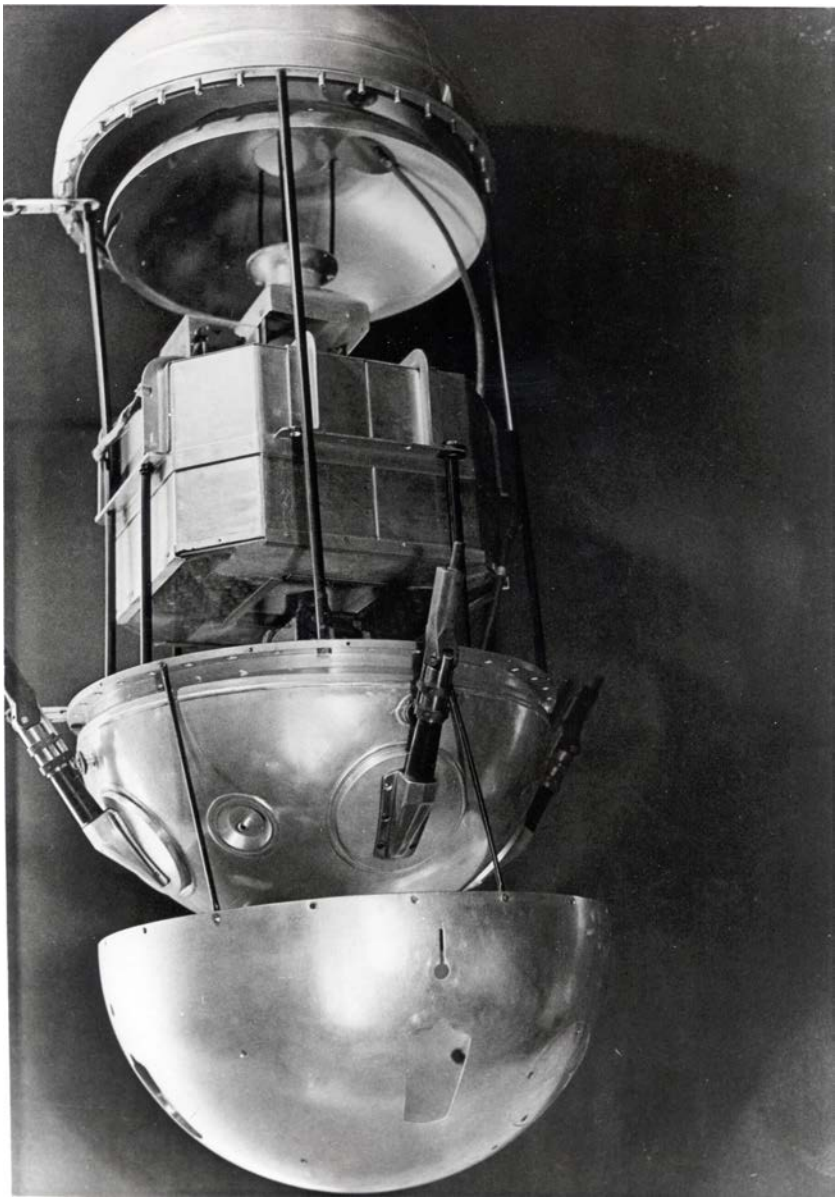
Unofficial convenience copy of A-CR-CCP-803/PF-001, cached 2026-11-08 from https://app.cadets.gc.ca/cadet-publications/A-CR-CCP-803-PF-001/A-CR-CCP-803-PF-001.pdf.
Verify against the official publication.



"Sputnik: The Fiftieth Anniversary", 2007, Photo Gallery. Retrieved November 29, 2007, from http://www.history.nasa.gov/sputnik/gallerysput.html

Figure P-3 Sputnik

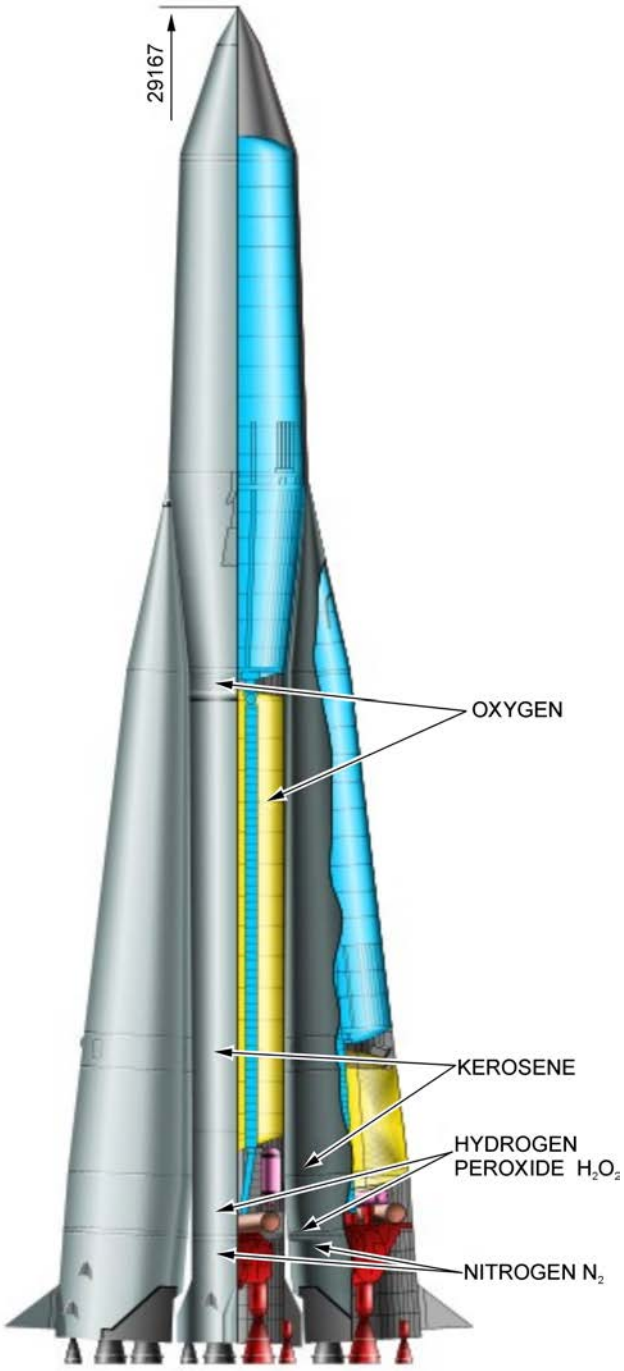
Unofficial convenience copy of A-CR-CCP-803/PF-001, cached 2026-11-08 from https://app.cadets.gc.ca/cadet-publications/A-CR-CCP-803-PF-001/A-CR-CCP-803-PF-001.pdf.
Verify against the official publication.



"Sputnik: The Fiftieth Anniversary", 2007, Photo Gallery. Retrieved November 29, 2007, from http://www.history.nasa.gov/sputnik/gallerysput.html

Figure P-4 Sputnik Revealed

Unofficial convenience copy of A-CR-CCP-803/PF-001, cached 2026-11-08 from https://app.cadets.gc.ca/cadet-publications/A-CR-CCP-803-PF-001/A-CR-CCP-803-PF-001.pdf.
Verify against the official publication.



"Roscosmos", Space Programs Rocket Families R-7. Retrieved March 25, 2007, from http://www.roscosmos.ru/Roket1Show.asp?RoketID=8

Figure P-5 Sputnik's R-7 Rocket

Unofficial convenience copy of A-CR-CCP-803/PF-001, cached 2026-11-08 from https://app.cadets.gc.ca/cadet-publications/A-CR-CCP-803-PF-001/A-CR-CCP-803-PF-001.pdf.
Verify against the official publication.



"Russian Space Web", 2007, Rockets. Retrieved December 2, 2007, from http://www.russianspaceweb.com/r7.html

Figure P-6 Two-Stage R-7 Rocket Modified for Sputnik-1

Unofficial convenience copy of A-CR-CCP-803/PF-001, cached 2026-11-08 from https://app.cadets.gc.ca/cadet-publications/A-CR-CCP-803-PF-001/A-CR-CCP-803-PF-001.pdf.
Verify against the official publication.

Flight History JUPITER-C (three-stage configuration):

September 20, 1956: Lofted a payload to an altitude of 1 095 km and a range of 5 313 km from Cape Canaveral, Florida.

May 15, 1957: Lofted a nose cone to an altitude of 563 km and a range of 1 143 km.

August 8, 1957: Lofted a 1/3-scale Jupiter nose cone to an altitude of 459 km and a range of 2 141 km.

January 31, 1958: Orbited Explorer-1 satellite.

March 5, 1958: Attempted orbit of Explorer-II failed because fourth stage did not ignite.

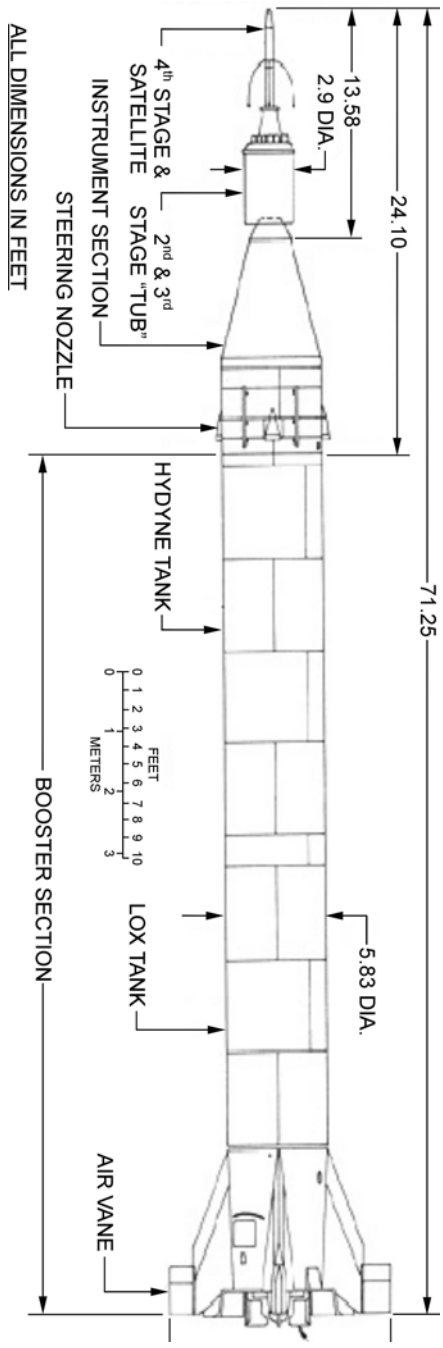
March 26, 1958: Orbited Explorer-III satellite.

July 26,1958: Orbited Explorer-IV satellite.

August 24,1958: Attempted orbit of Explorer-V satellite failed because booster collided with second stage after separation, causing the upper stage firing angle to be off.

October 23, 1958: Attempted orbit of inflatable Beacon satellite failed when second stage separated prematurely from booster.

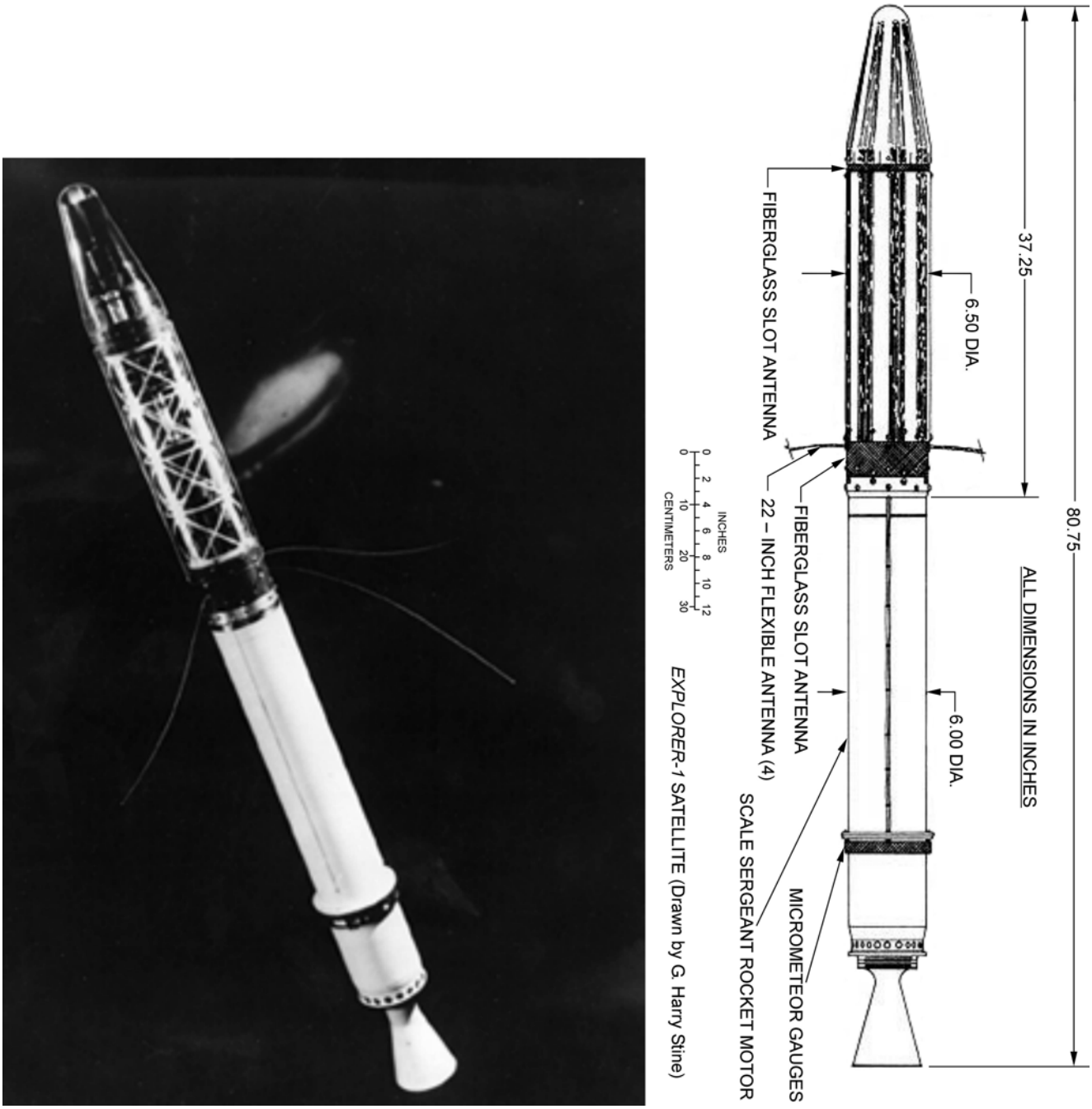
Unofficial convenience copy of A-CR-CCP-803/PF-001, cached 2026-11-08 from https://app.cadets.gc.ca/cadet-publications/A-CR-CCP-803-PF-001/A-CR-CCP-803-PF-001.pdf.
Verify against the official publication.



"Sputnik: The Fiftieth Anniversary", Sputnik and The Dawn of the Space Age. Retrieved March 25, 2007, from http://history.nasa.gov/sputnik/expinfo.html

Figure P-7 Jupiter-C and Explorer 1

Unofficial convenience copy of A-CR-CCP-803/PF-001, cached 2026-11-08 from https://app.cadets.gc.ca/cadet-publications/A-CR-CCP-803-PF-001/A-CR-CCP-803-PF-001.pdf.
Verify against the official publication.



"Sputnik: The Fiftieth Anniversary", Sputnik and The Dawn of the Space Age. Retrieved March 25, 2007, from http://history.nasa.gov/sputnik/expinfo.html

Figure P-8 Explorer 1

Unofficial convenience copy of A-CR-CCP-803/PF-001, cached 2026-11-08 from https://app.cadets.gc.ca/cadet-publications/A-CR-CCP-803-PF-001/A-CR-CCP-803-PF-001.pdf.
Verify against the official publication.