

81. Titan II (Thread Needle), 20 June 63, Response Mode 5, Flight Phase 2: Flight appeared normal until BECO at about 146 seconds. The staging event seemed abnormally long, due to low second-stage thrust that remained considerably below normal thereafter because of reduced oxidizer flow through the gas-generator injector. The vehicle nevertheless followed closely to the intended ground track, albeit well behind schedule. At about 480 seconds (and some three minutes behind schedule), the missile began a slow turn to the left. A SECO indication was noted about 10 seconds later. Destruct was sent at 532 seconds after all track was lost.
82. Titan I (Silver Spur), 16 July 63, Response Mode 4, Flight Phase 2: The flight was normal through first-stage cutoff. Separation occurred but the second-stage failed to ignite.
85. Titan I (Polar Route), 30 Aug 63, Response Mode 4, Flight Phase 2.5: The flight appeared normal through the first and second-stage thrusting periods. At SECO the vernier engines also shut down, apparently due to shutdown of the gas generator.
89. II (Fire Truck), 9 Nov 63, Response Mode 4T, Flight Phase 1: Missile tumbled out of control at 130 seconds, then broke up.
104. IIIA (65-210), 1 Sep 64, Response Mode 4, Flight Phase 4: Nominal mission through first transtage burn. Transtage propellant-tank pressurization system failed with resultant reduction in thrust. Vehicle impacted about 2700 miles downrange.
107. Titan I (West Wind I), 8 Dec 64, Response Mode 5, Flight Phase 1: A first-stage power-level malfunction combined with guidance deviations caused the missile to drift far to the left, then over-correct far to the right, passing north of Midway Is. No other data available.
109. Titan I (West Wind III), 14 Jan 65, Response Mode 4, Flight Phase 2: First-stage flight was apparently normal, but second stage failed to ignite.
112. Titan I (West Wind II), 5 Mar 65, Response Mode 4, Flight Phase 2: Missile impacted on azimuth about 80 miles short of target due to propellant depletion.
116. Titan I (Card Deck), 30 Apr 65, Response Mode 4, Flight Phase 1: Flight appeared normal until around 100 seconds when the IP slowed and then stopped due to a turbopump failure. The missile self-destructed at about 115 seconds with the impact point about 115 miles offshore.
120. Titan II (Gold Fish), 14 Jun 65, Response Mode 4, Flight Phase 2.5: Vehicle apparently failed during the vernier solo phase due to loss of a vernier nozzle.