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:                               Flight Card                               :
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Launch date:   Sat Sep 26 2015
Launch site:   Black Rock -- Balls 2015
Flyer's name: Paul Gagnon
Rocket name:   Proto
Motor:         N4036
Expected alt: 26000 feet
Dual deploy:  Yes, main parachute set at 2500 feet
Comments:     Came in ballistic.  No deployments.

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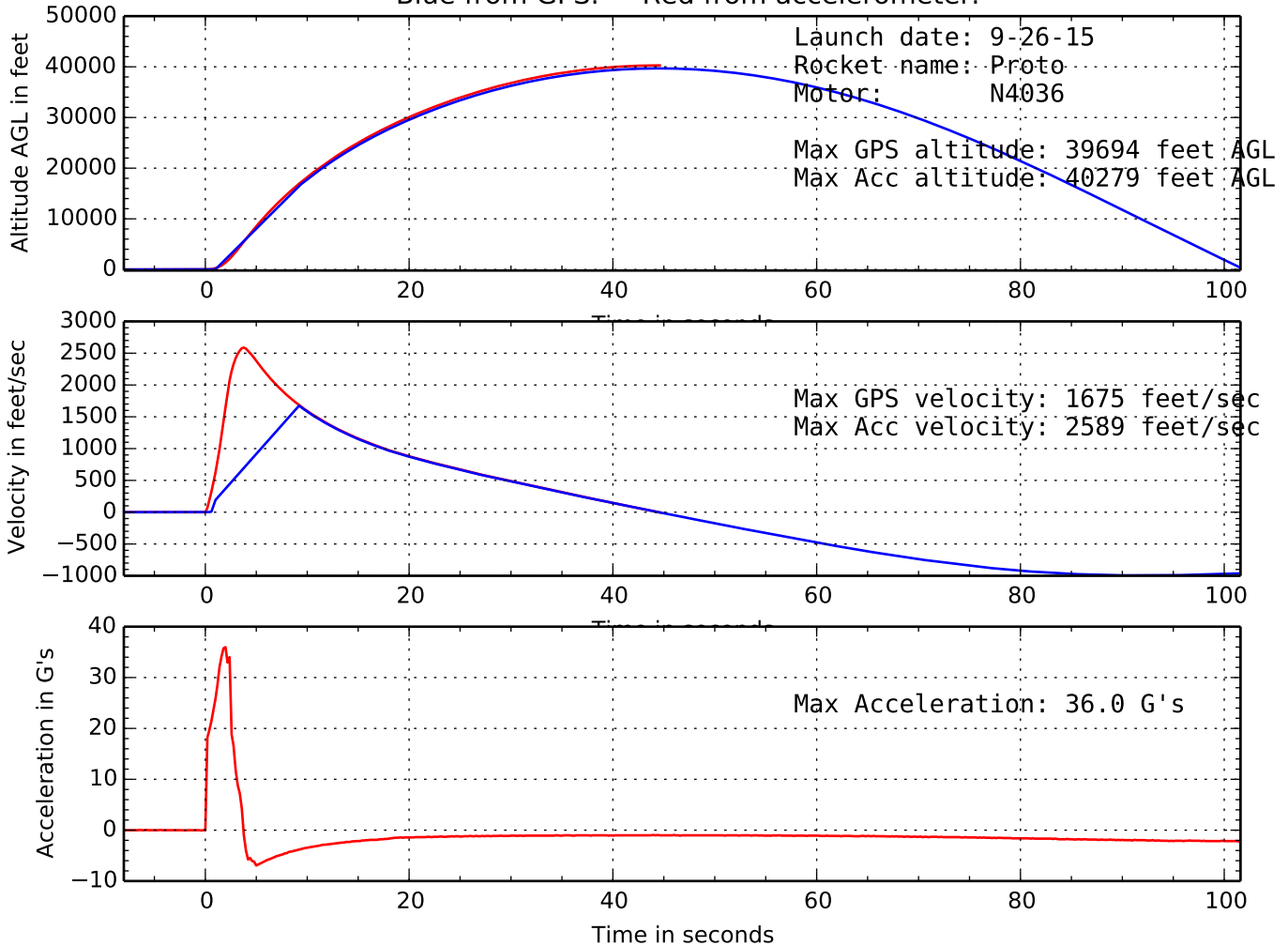
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:                               Flight Results                             :
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Max GPS altitude: 39694 feet AGL
Max Acc altitude: 40279 feet AGL
Max GPS velocity: 1675 feet/sec   1142.0 mph   1.618 Mach
Max Acc velocity: 2589 feet/sec   1765.2 mph   2.397 Mach
Max GPS Mach num: 1.632 Mach
Max Acceleration: 36.0 G's        1158.5 feet/sec/sec
Motor burnout alt: 5357 feet AGL
Motor burn time:  3.7 sec (approx)
Distance to apogee: 6293 feet      1.19 miles
Bearing to apogee: 216 degrees     (from true north)
Ground speed at apogee: 91 feet/sec 62.0 mph
Heading at apogee: 210 degrees     (from true north)
Descent rate on drogue: 937 feet/sec 639.0 mph
Descent rate on main: 963 feet/sec 656.6 mph
Touch down velocity: 964 feet/sec 657.3 mph
Main chute deployed at: ? feet AGL
Time to apogee: 44.4 sec
Time on drogue: 57.2 sec
Time on main: ? sec
Total flight time: 1 min 41.6 sec
Lift off: 12:31:43.0 MDT 18:31:43.0 UTC
Apogee: 12:32:27.4 MDT 18:32:27.4 UTC
Touch down: 12:33:24.6 MDT 18:33:24.6 UTC
Launch pad coordinates: N 40° 50.1636' W 119° 7.9615'
Landing site coordinates: N 40° 48.8663' W 119° 9.0026'
Distance to landing site: 9235 feet 1.75 miles
Bearing to landing site: 211 degrees (from true north)
Ground level: 3921 feet MSL
Liftoff      Apogee      Landing
Battery:     3.95v      3.94v      3.93v
Temperature: 87°F      87°F      88°F
Transmitter: Mx110A0223  Firmware: 2.0.0.0
Receiver:    Mx120A0200  Firmware: 2.1.2.0
Data came from receiver: Flight name "PAUL"
Dated: Sept 26 at 11:31am

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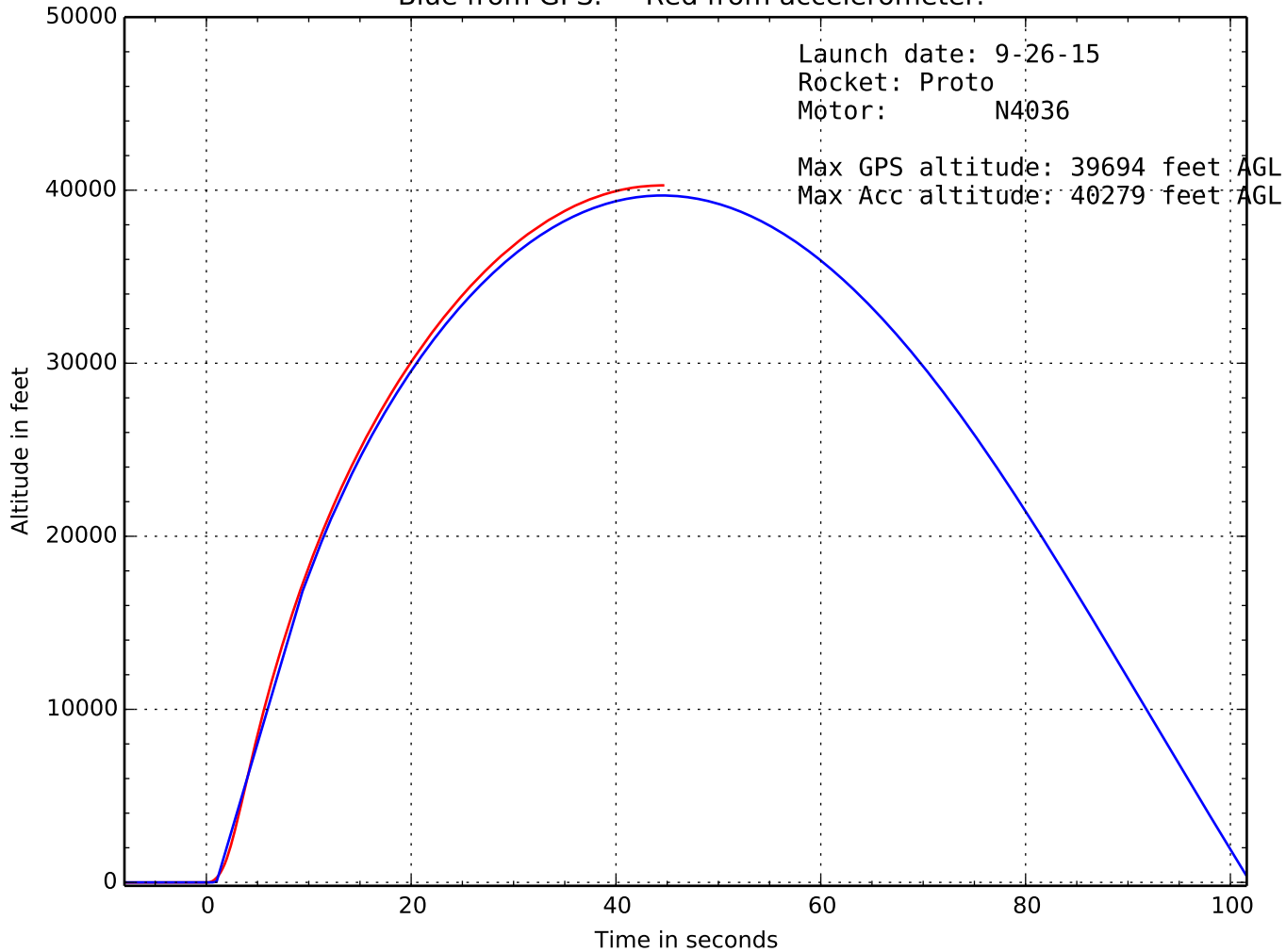
# Altitude, Velocity, and Acceleration

Blue from GPS. Red from accelerometer.



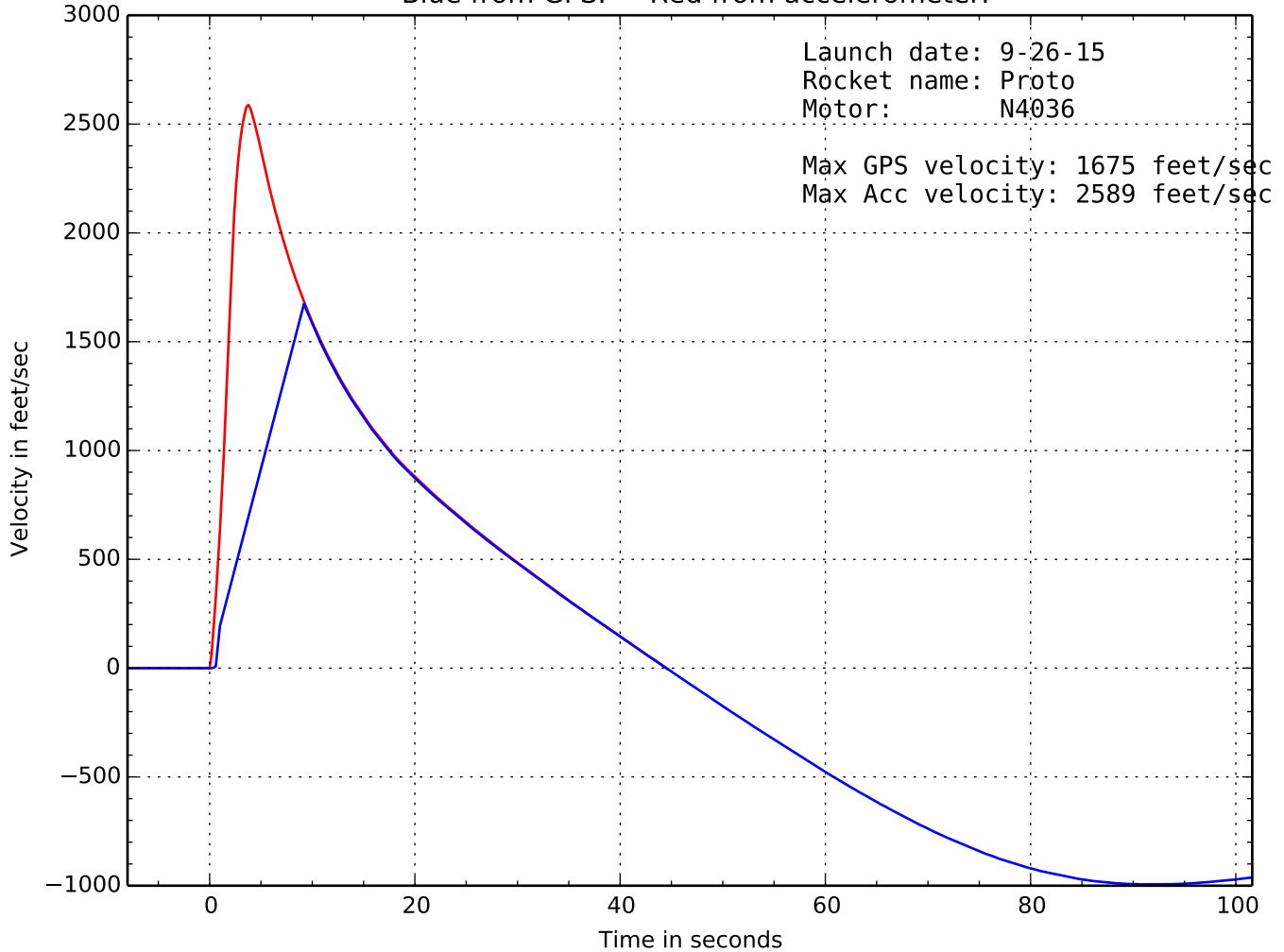
# Altitude AGL

Blue from GPS. Red from accelerometer.

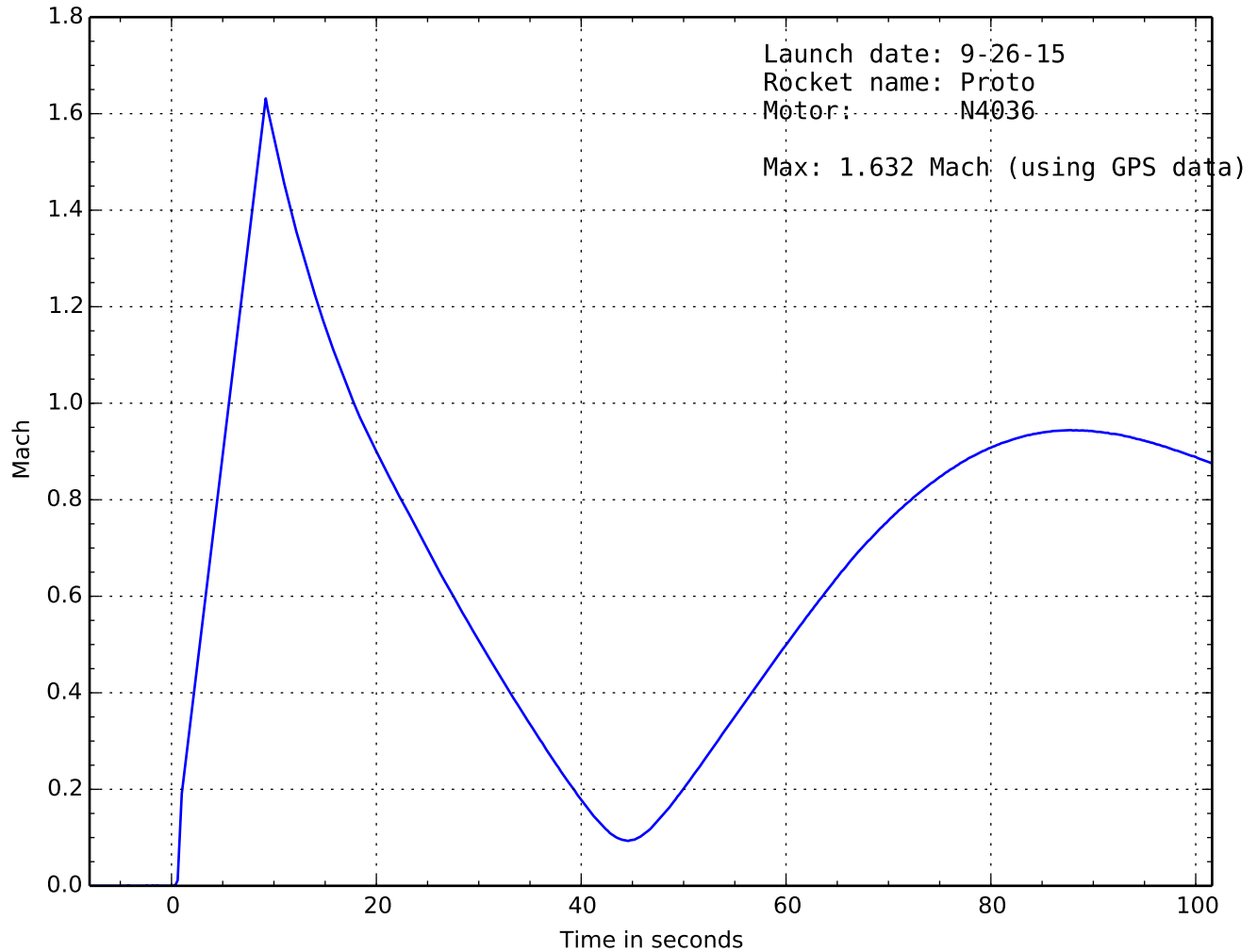


# Vertical Velocity

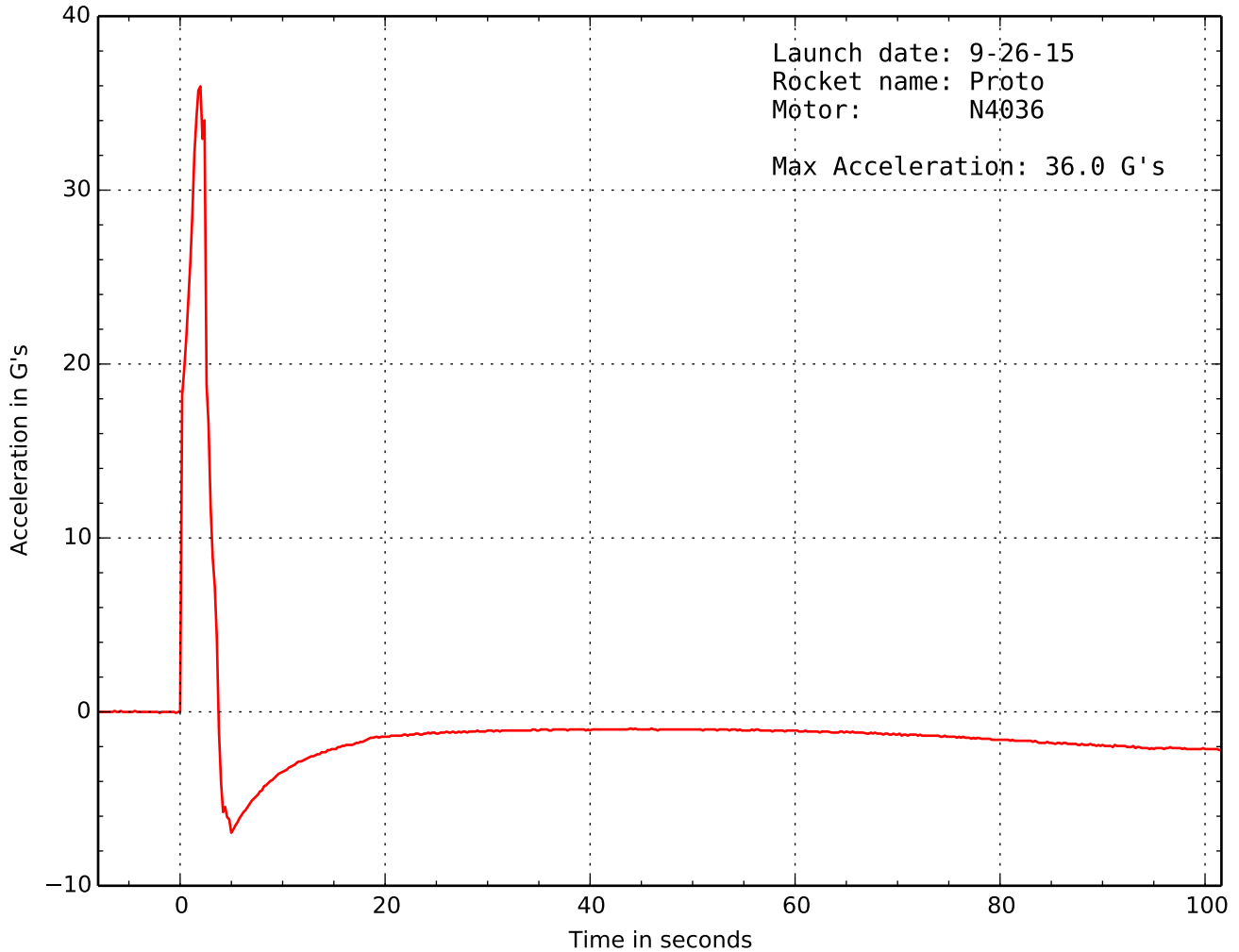
Blue from GPS. Red from accelerometer.



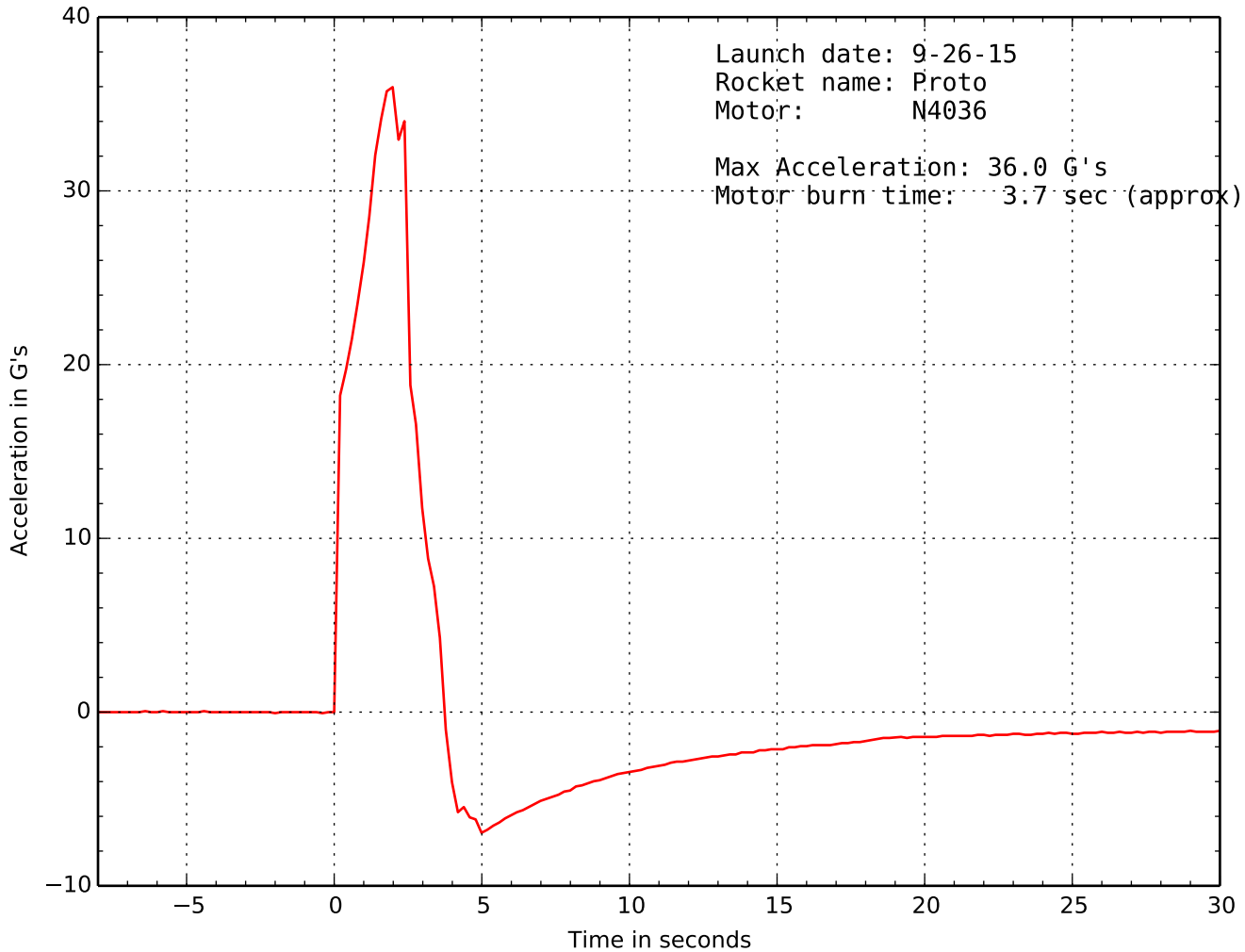
# 3D Velocity in Mach



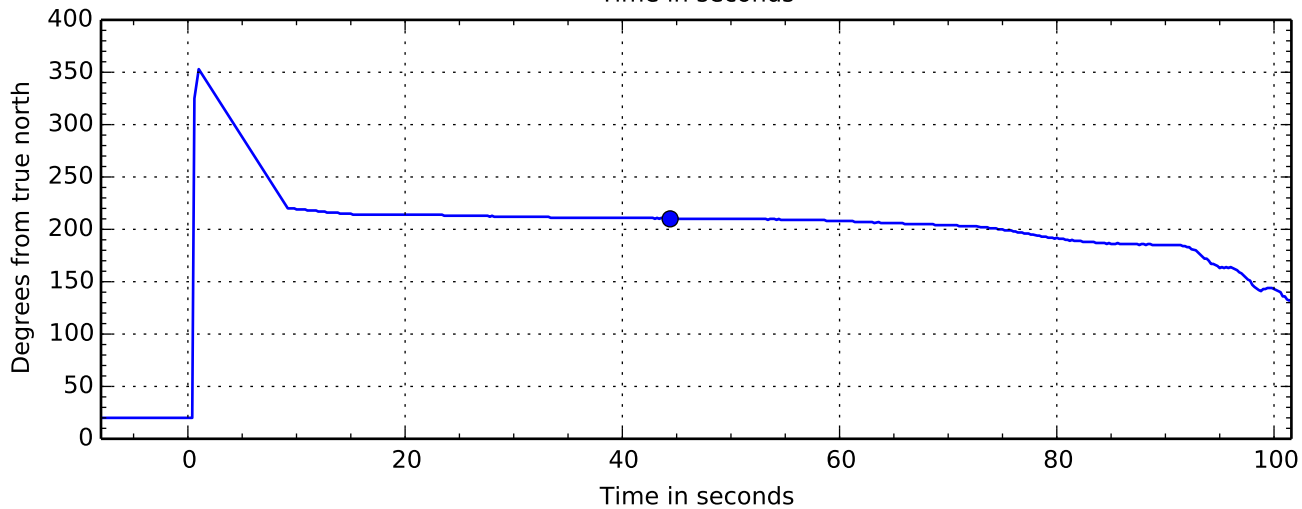
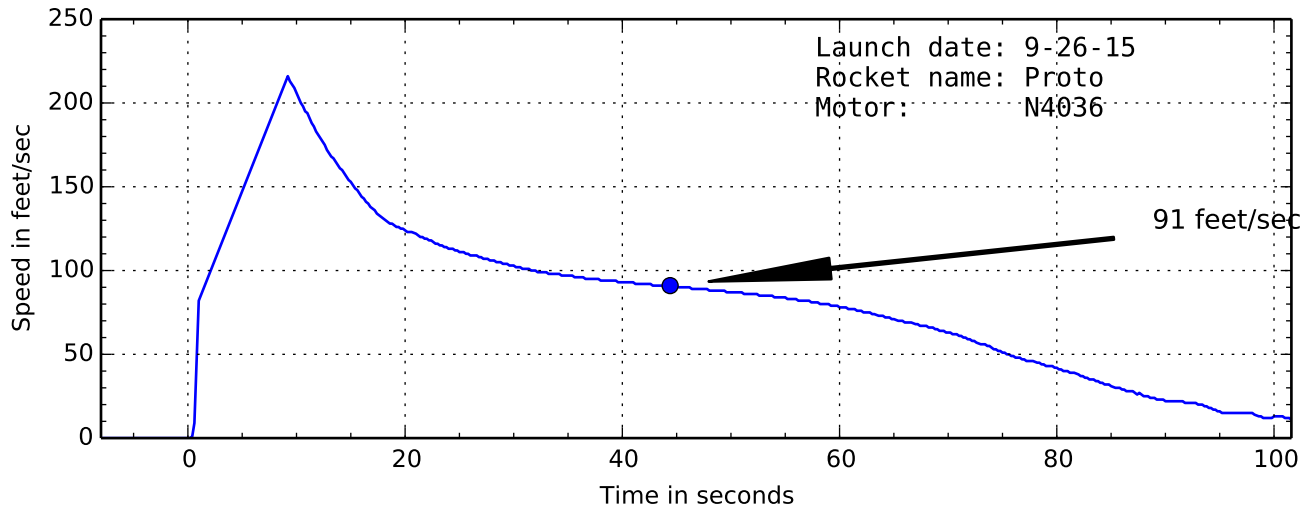
# Acceleration -- Full Flight



# Acceleration -- Boost Phase

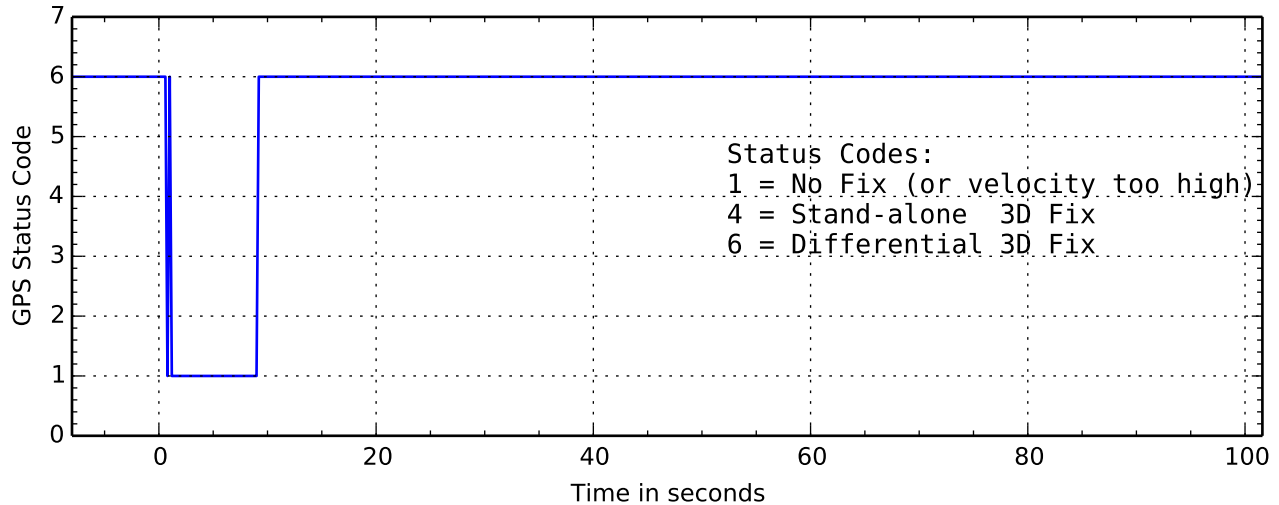
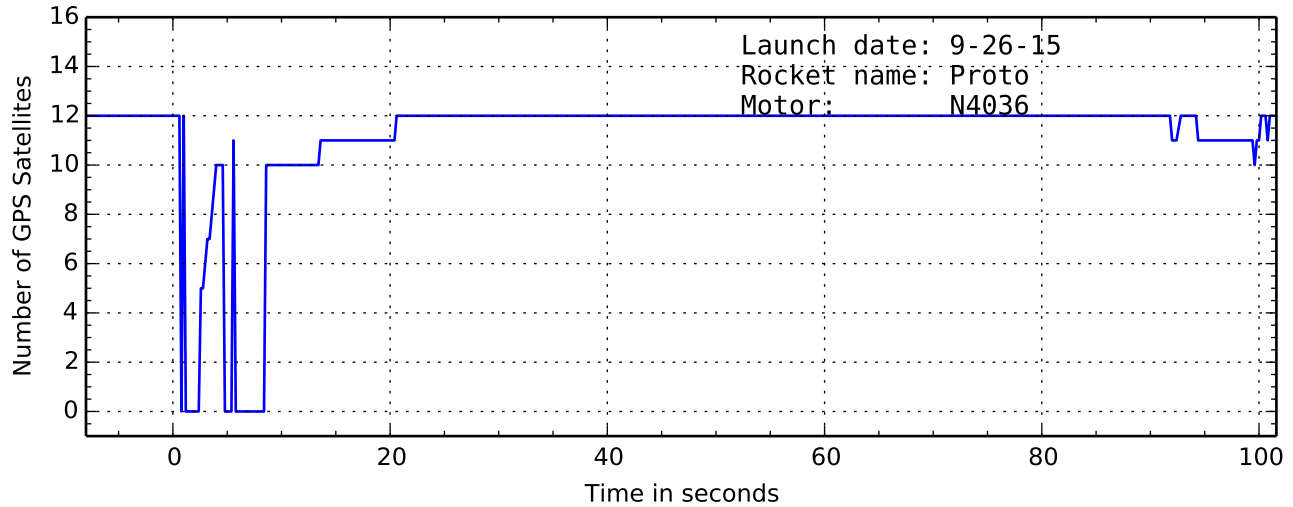


# Ground Speed and Heading



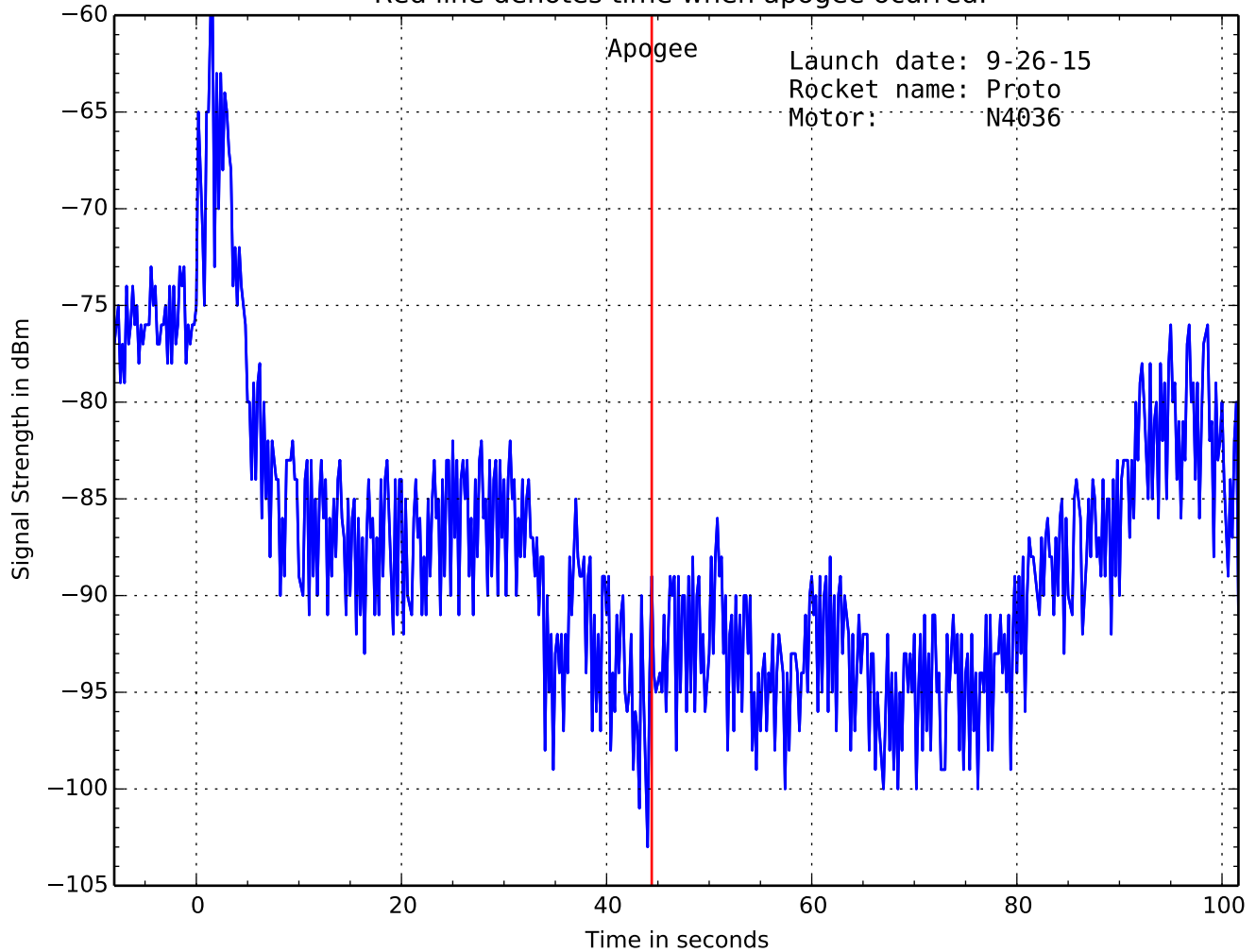


# Number of Satellites and GPS Status



# Downlink Signal Strength

Red line denotes time when apogee occurred.



# Downlink Signal Strength

Blue is for ascent. Red is for descent.

