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Flight Card

Launch date: Sat Sep 20 2014
Launch site: Black Rock Desert
Flyer's name: Dave Rose
Rocket name: One-Eyed King
Motor: N3100
Expected alt: 30000 feet
Dual deploy: Yes, main parachute set at 1100 feet

Comments: First flight with Kate - Balls 23 - September 20, 2014

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Flight Results

Max GPS altitude: 28465 feet AGL
Max Acc altitude: 28457 feet AGL

Max GPS velocity: 1659 feet/sec 1130.8 mph 1.550 Mach
Max Acc velocity: 1746 feet/sec 1190.5 mph 1.617 Mach
Max GPS Mach num: 1.551 Mach

Max Acceleration: 12.6 G's 404.2 feet/sec/sec

Motor burnout alt: 5410 feet AGL
Motor burn time: 5.4 sec (approx)

Ground speed at apogee: 51 feet/sec 34.8 mph
Heading at apogee: 332 degrees (from true north)

Descent rate on drogue: 103 feet/sec 70.4 mph
Descent rate on main: 27 feet/sec 18.3 mph
Touch down velocity: 26 feet/sec 17.6 mph

Main chute deployed at: 1086 feet AGL

Time to apogee: 39.8 sec
Time on drogue: 4 min 26.7 sec
Time on main: 44.4 sec
Total flight time: 5 min 50.9 sec

Lift off: 10:47:10.0 PDT 17:47:10.0 UTC
Apogee: 10:47:50.0 PDT 17:47:50.0 UTC
Touch down: 10:53:01.0 PDT 17:53:01.0 UTC

Launch pad coordinates: N 40° 50.3128' W 119° 7.8646'
Landing site coordinates: N 40° 51.2244' W 119° 8.9451'

Distance to landing site: 7448 feet 1.41 miles
Bearing to landing site: 318 degrees (from true north)
Ground level: 3922 feet MSL

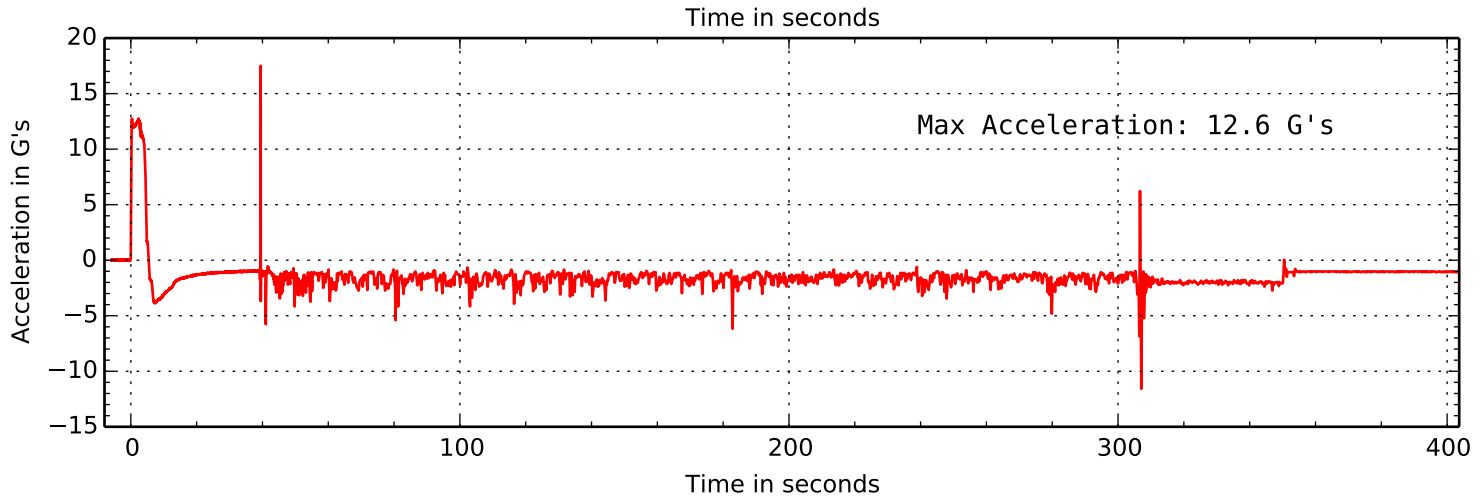
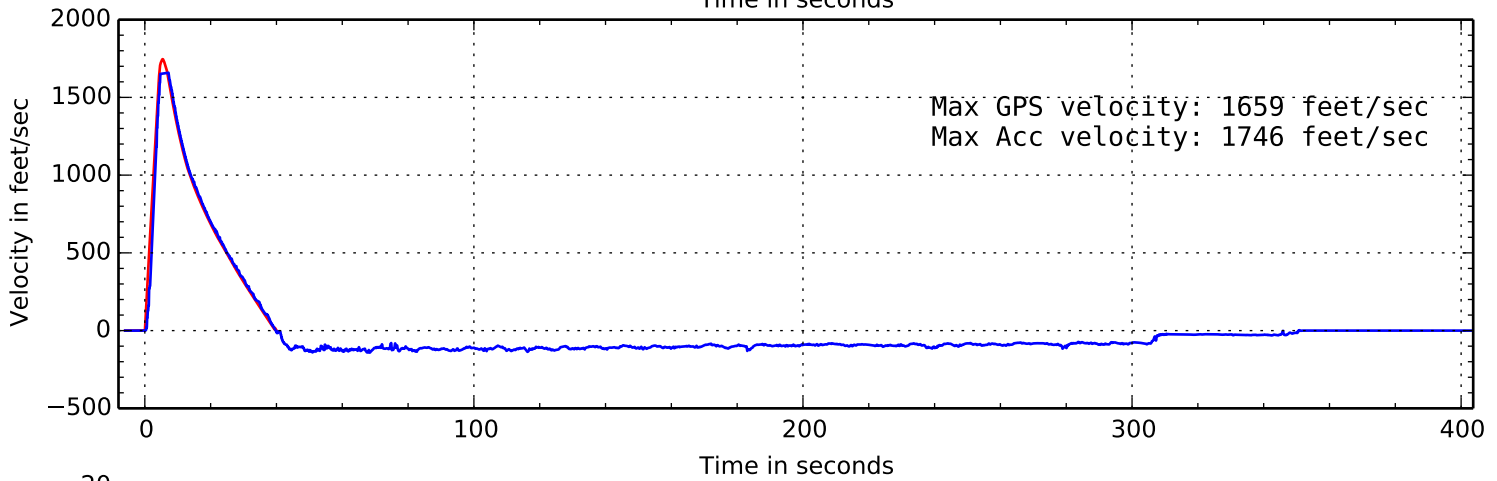
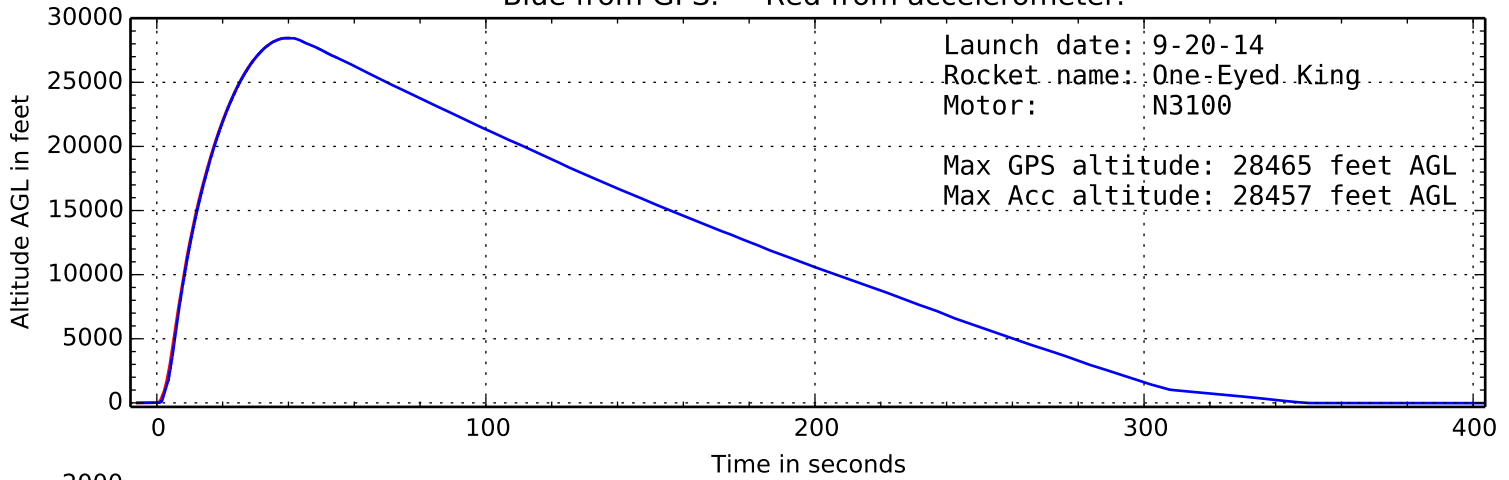
Liftoff Apogee Landing
Battery: 4.02v 4.01v 4.00v
Temperature: 97°F 99°F 97°F

Transmitter serial num: Mx110A0217
Transmitter firmware: Rev:1.2.4.0 Build:140501.154215

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Altitude, Velocity, and Acceleration

Blue from GPS. Red from accelerometer.

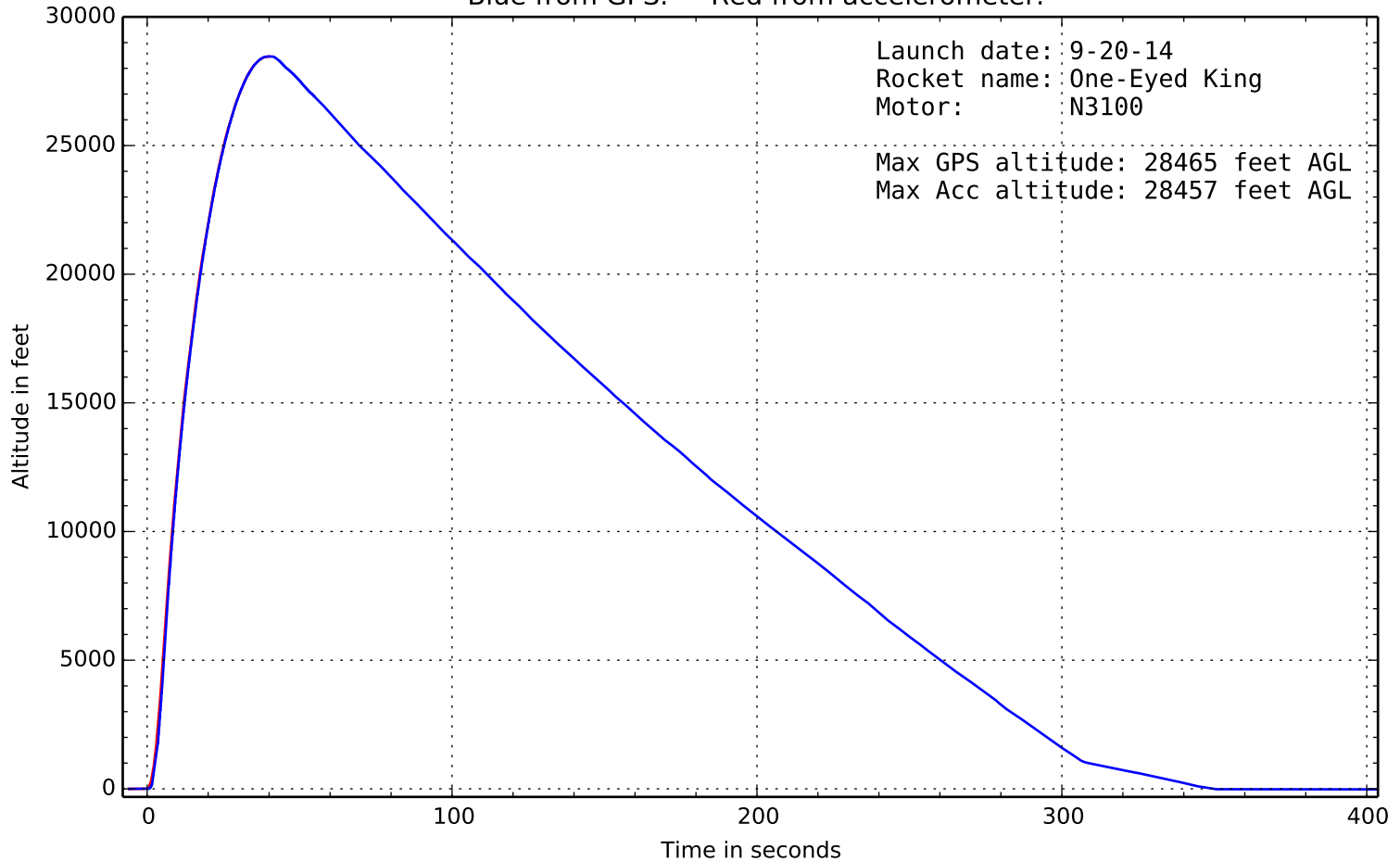


Altitude AGL

Blue from GPS. Red from accelerometer.

Launch date: 9-20-14
Rocket name: One-Eyed King
Motor: N3100

Max GPS altitude: 28465 feet AGL
Max Acc altitude: 28457 feet AGL

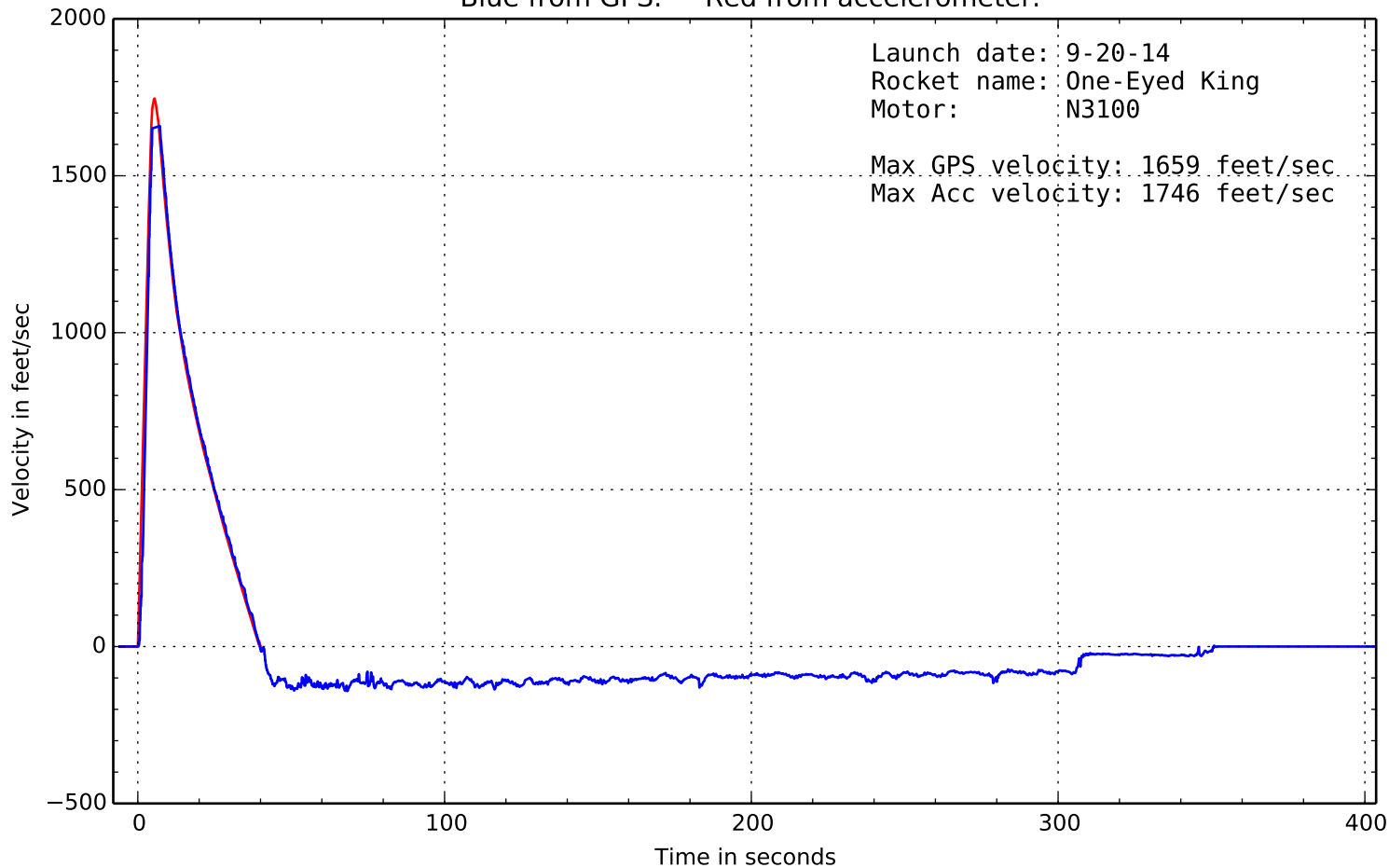


Vertical Velocity

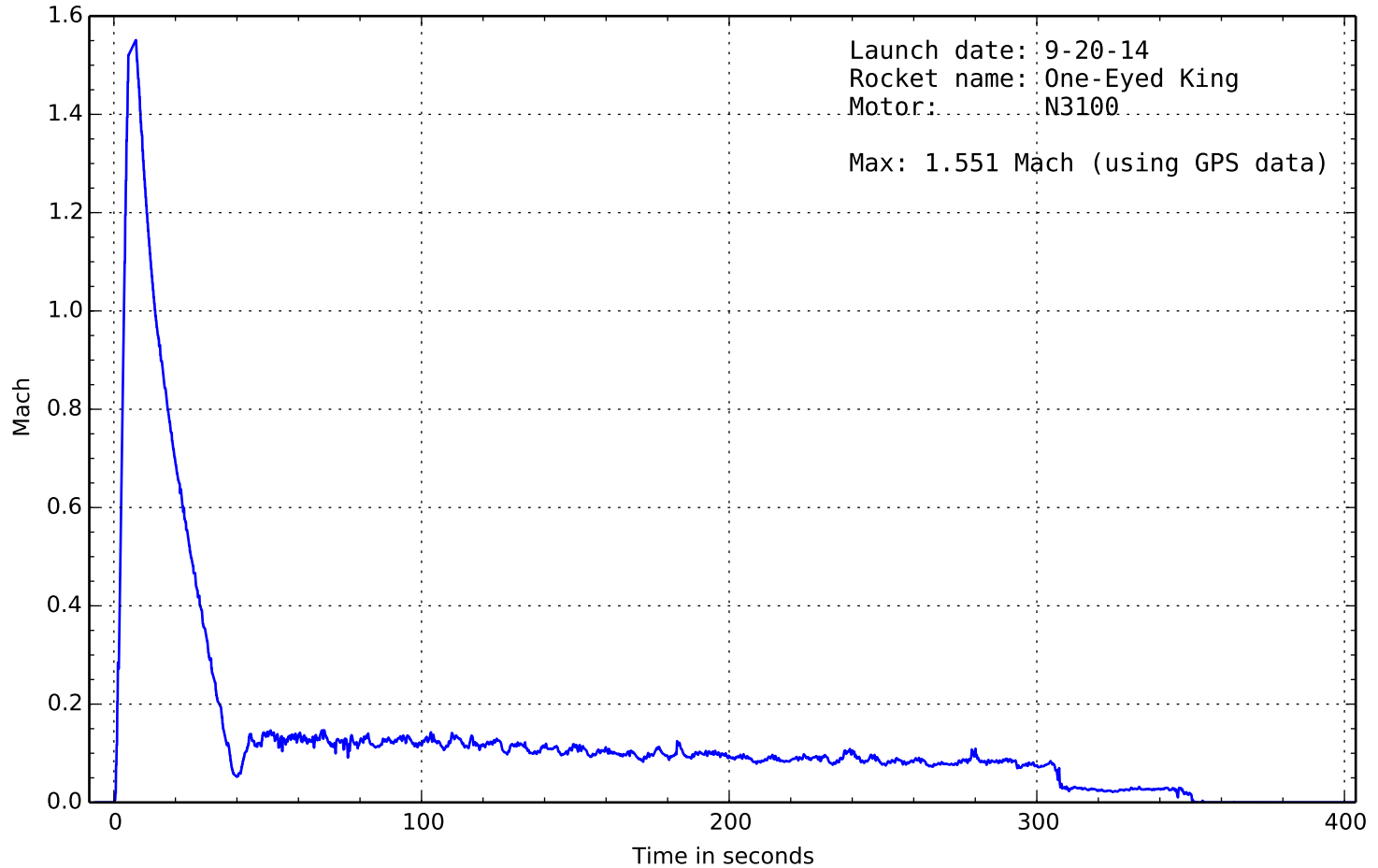
Blue from GPS. Red from accelerometer.

Launch date: 9-20-14
Rocket name: One-Eyed King
Motor: N3100

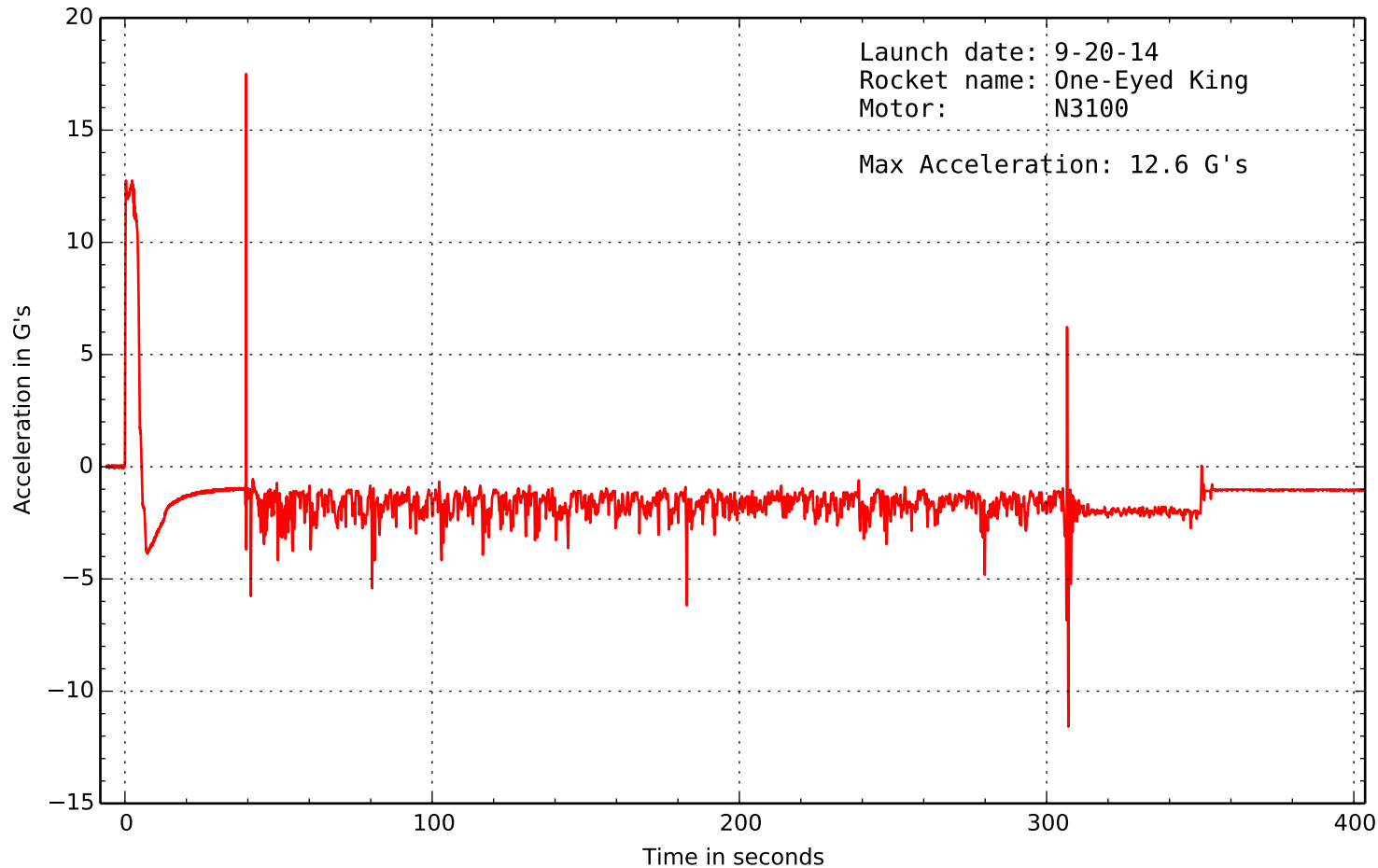
Max GPS velocity: 1659 feet/sec
Max Acc velocity: 1746 feet/sec



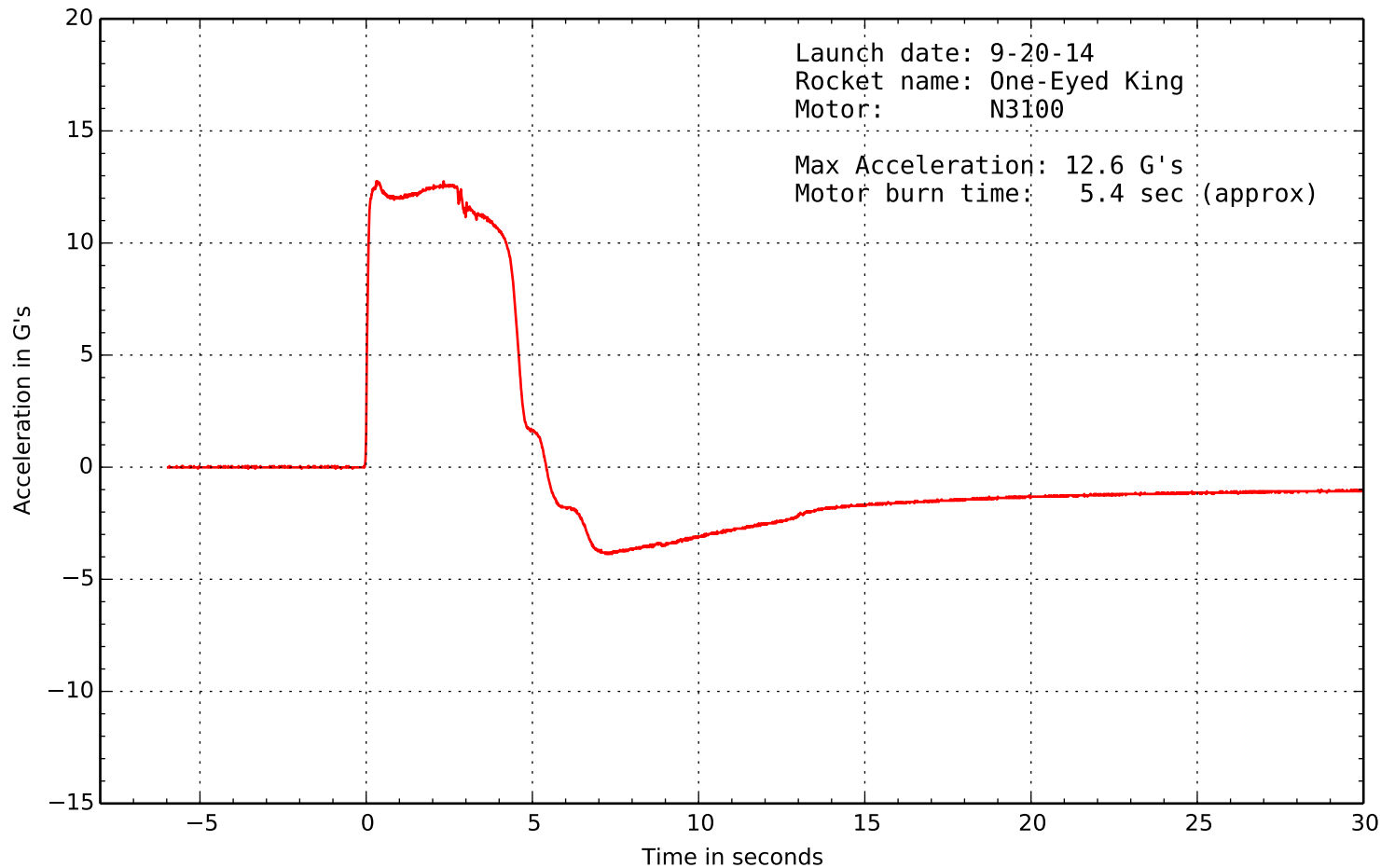
3D Velocity in Mach



Acceleration -- Full Flight



Acceleration -- Boost Phase



Ground Speed and Heading

