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Flight Card

Launch date: Sun Apr 09 2017  
Launch site: MDRA Higgs Field  
Flyer's name: Jeff Boldig  
Rocket name: Big Bird  
Motor: M1725  
Expected alt: 5400 feet  
Dual deploy: Yes, main parachute set at 700 feet

Comments: Perfect flight!  
LDRS36

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Flight Results

Max GPS altitude: 5272 feet AGL  
Max Acc altitude: 5413 feet AGL  
Max GPS velocity: 586 feet/sec 399.5 mph 0.527 Mach  
Max Acc velocity: 593 feet/sec 404.3 mph 0.533 Mach

Max Acceleration: 9.2 G's 297.0 feet/sec/sec

Motor burn time: 3.1 sec  
Burnout altitude: 1088 feet AGL  
Burnout velocity: 593 feet/sec 0.533 Mach

Apogee Deployment Event  
Occurred: 18.6 sec after liftoff  
Fired: 0.06 sec late  
Altitude: 5272 feet  
Vert vel: 3 feet/sec  
Horz vel: 18 feet/sec

Ground speed at apogee: 18 feet/sec 12.3 mph  
Heading at apogee: 206° from true north

Distance to apogee: 354 feet 0.07 miles  
Bearing to apogee: 212° from true north

Descent rate on drogue: 69 feet/sec 47.2 mph  
Descent rate on main: 19 feet/sec 12.8 mph  
Touch down velocity: 17 feet/sec 11.6 mph

Main Parachute Deployment Event  
Deployed: 84.5 sec after liftoff  
Altitude: 672 feet AGL  
Vert vel: -71 feet/sec

Time to max velocity: 3.1 sec  
Time to apogee: 18.6 sec  
Time on drogue: 1 min 5.9 sec  
Time on main: 32.8 sec  
Total flight time: 1 min 57.3 sec

Lift off: 08:12:20.0 MDT 14:12:20.0 UTC  
Apogee: 08:12:38.6 MDT 14:12:38.6 UTC  
Touch down: 08:14:17.2 MDT 14:14:17.2 UTC

Launch pad coordinates: N 39° 4.7386' W 75° 52.4502'  
Landing site coordinates: N 39° 4.7900' W 75° 52.3942'

Distance to landing site: 409 feet 0.08 miles  
Bearing to landing site: 40° from true north

Ground level: 58 feet MSL

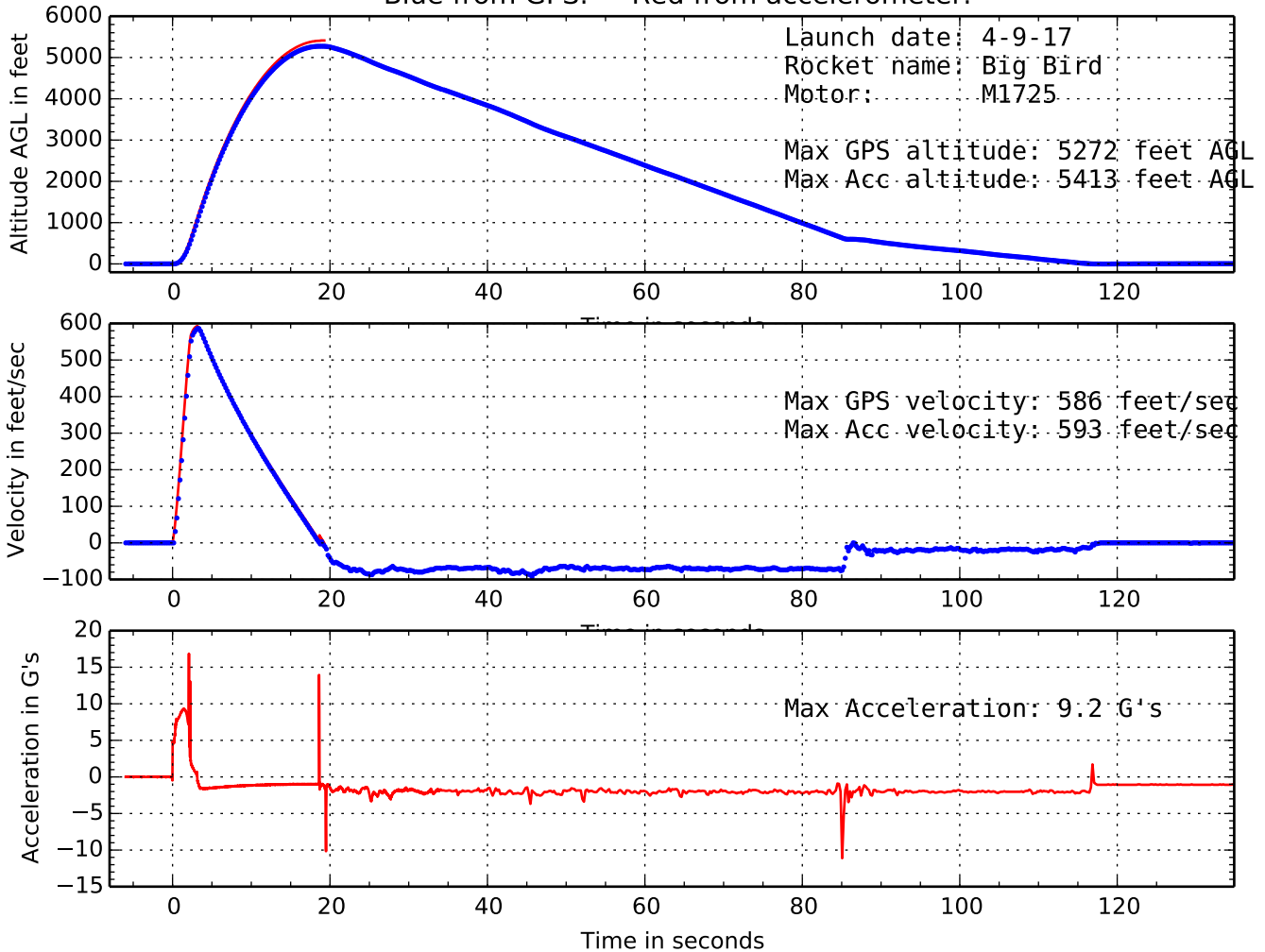
	Liftoff	Apogee	Landing
Battery:	3.95v	3.94v	3.93v
Temperature:	81°F	81°F	83°F

Transmitter: Mx110A0235 Firmware: 3.1.0.0

This data came from transmitter flash memory.

# Altitude, Velocity, and Acceleration

Blue from GPS. Red from accelerometer.



# Altitude AGL

Blue from GPS. Red from accelerometer.

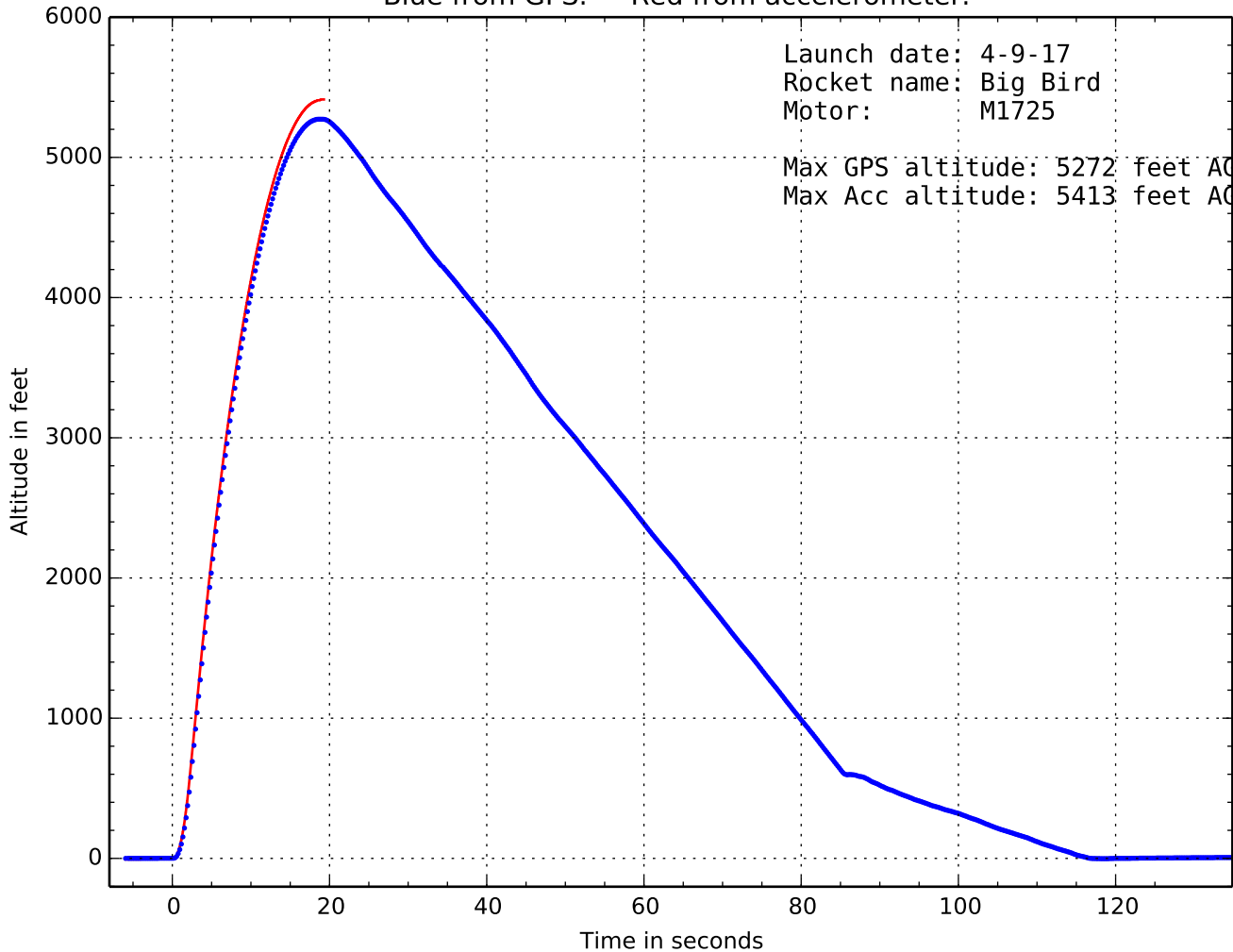
Launch date: 4-9-17

Rocket name: Big Bird

Motor: M1725

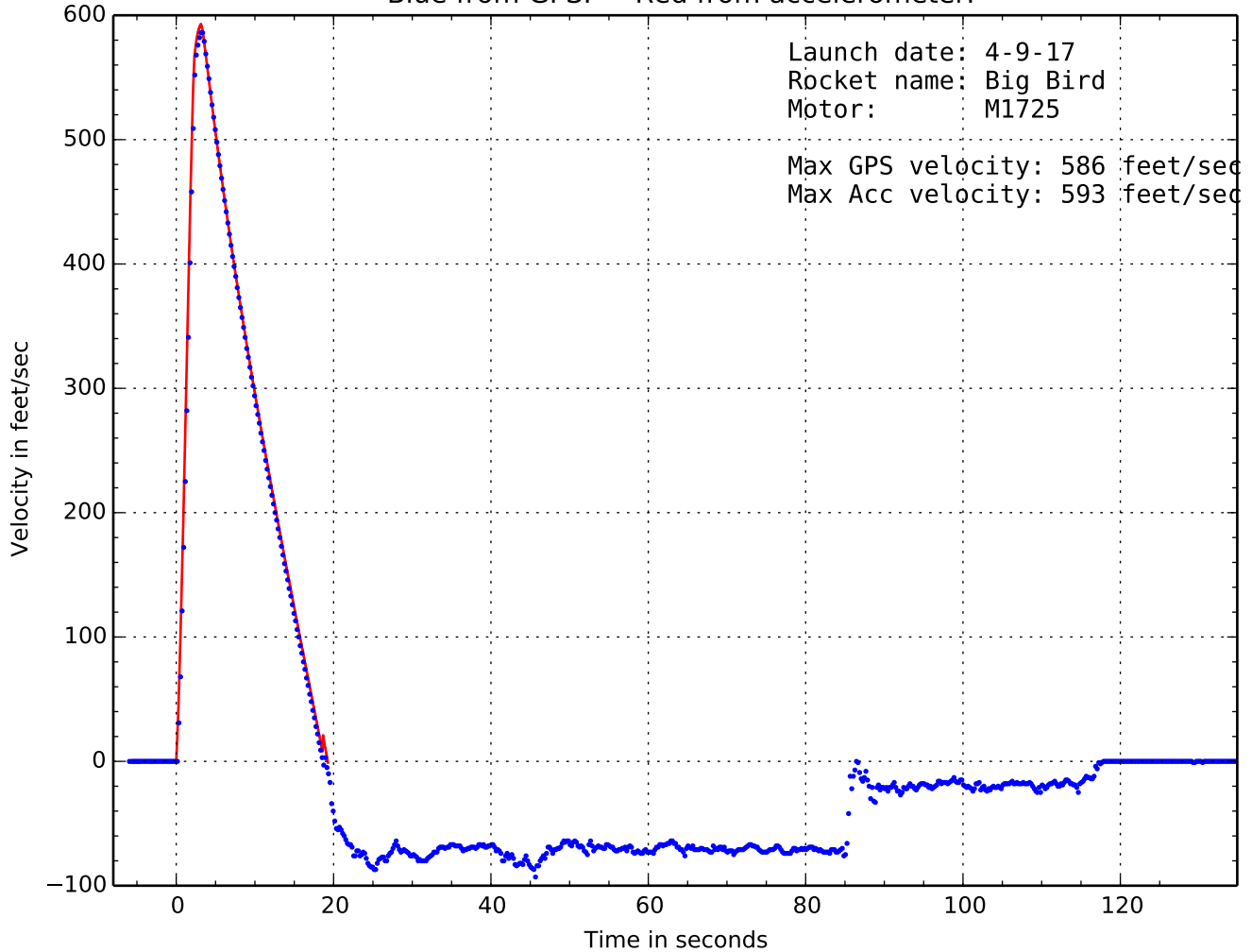
Max GPS altitude: 5272 feet AGL

Max Acc altitude: 5413 feet AGL

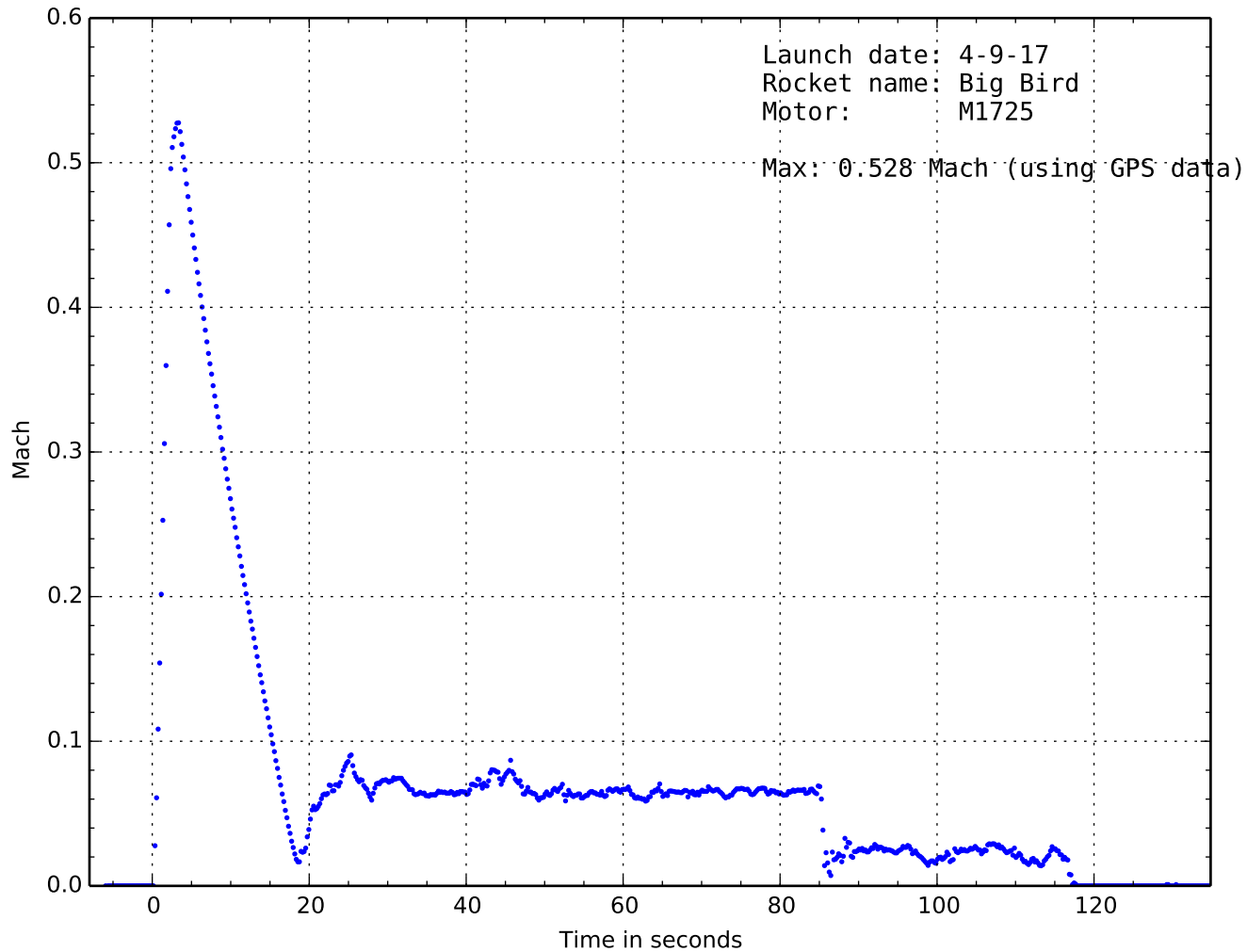


# Vertical Velocity

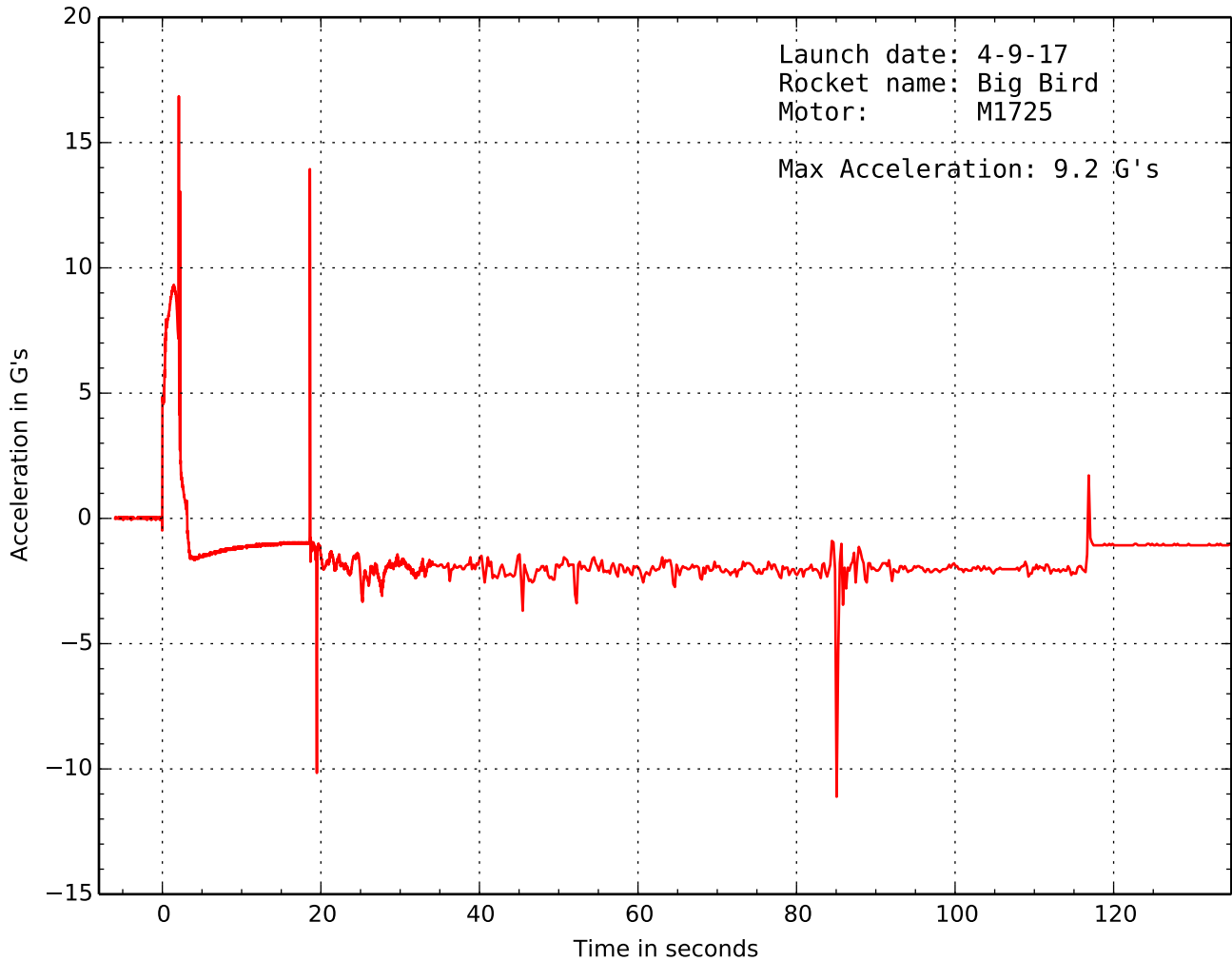
Blue from GPS. Red from accelerometer.



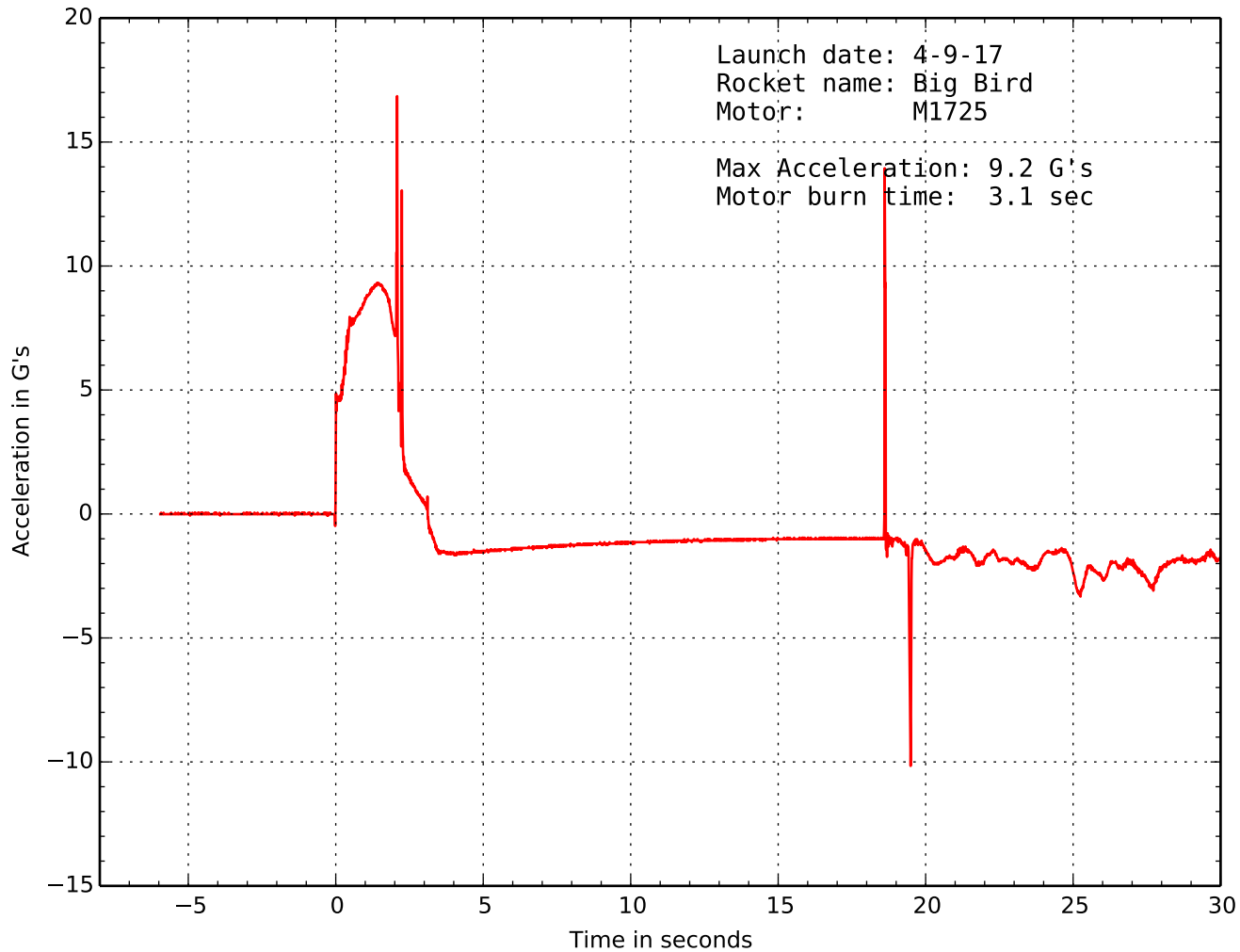
# 3D Velocity in Mach



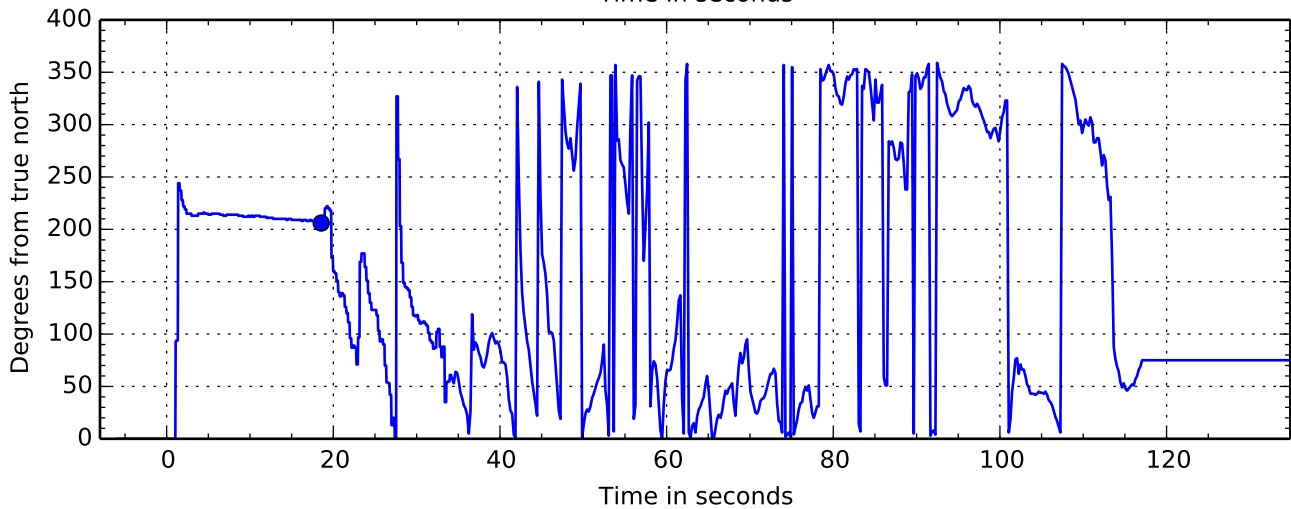
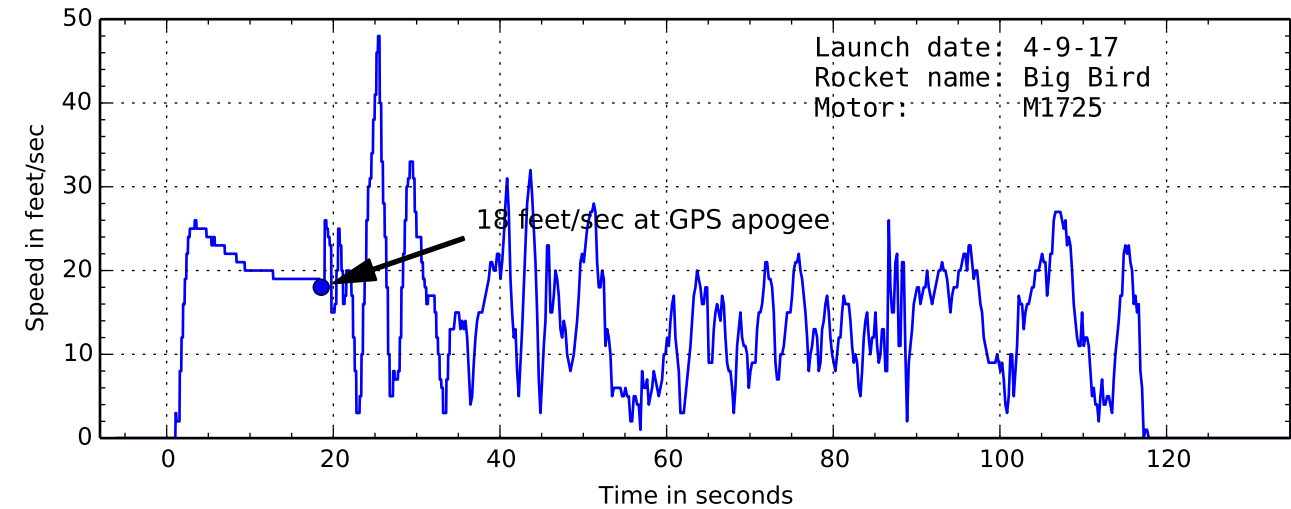
# Acceleration -- Full Flight



# Acceleration -- Boost Phase



# Ground Speed and Heading





# Number of Satellites and GPS Status

