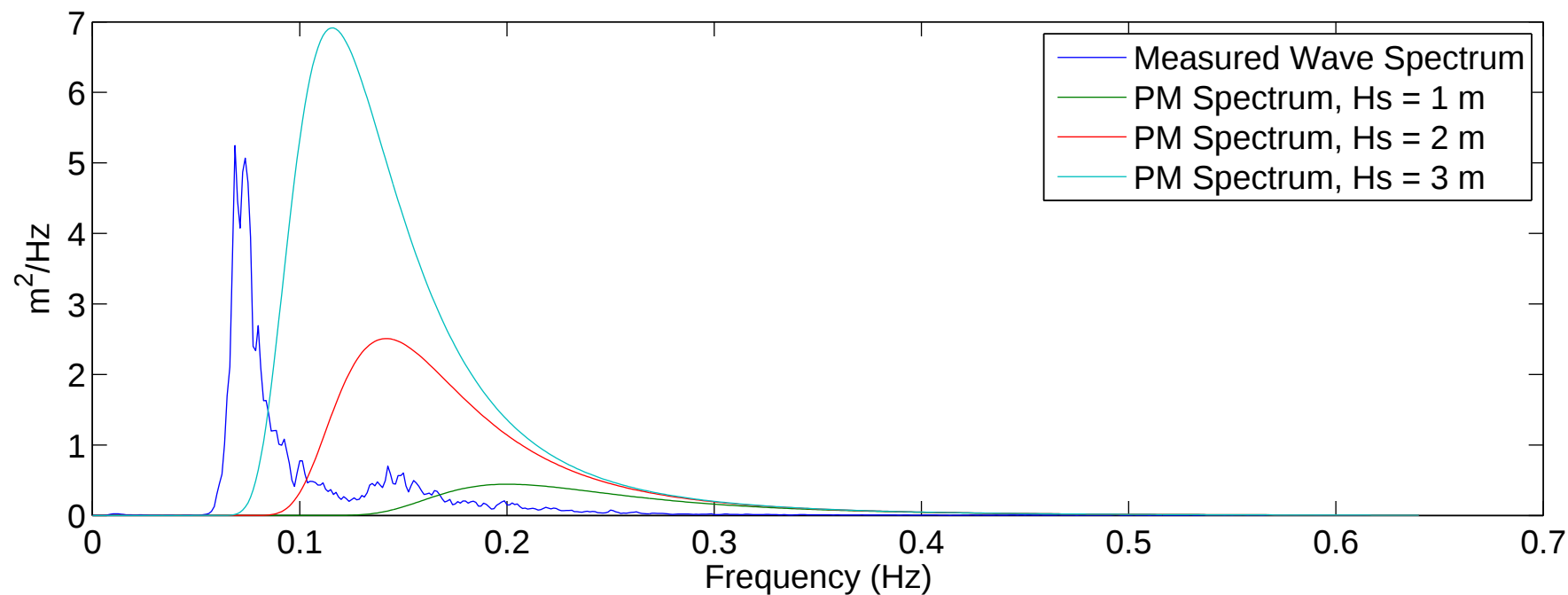
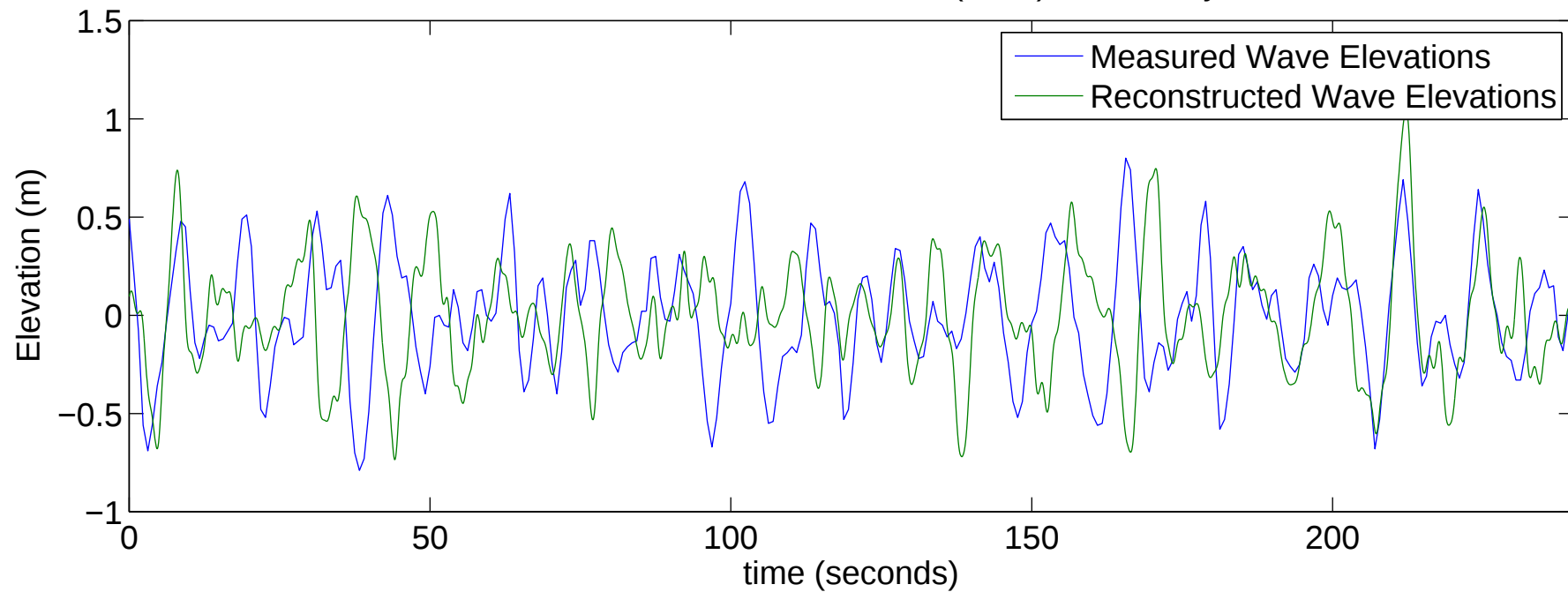
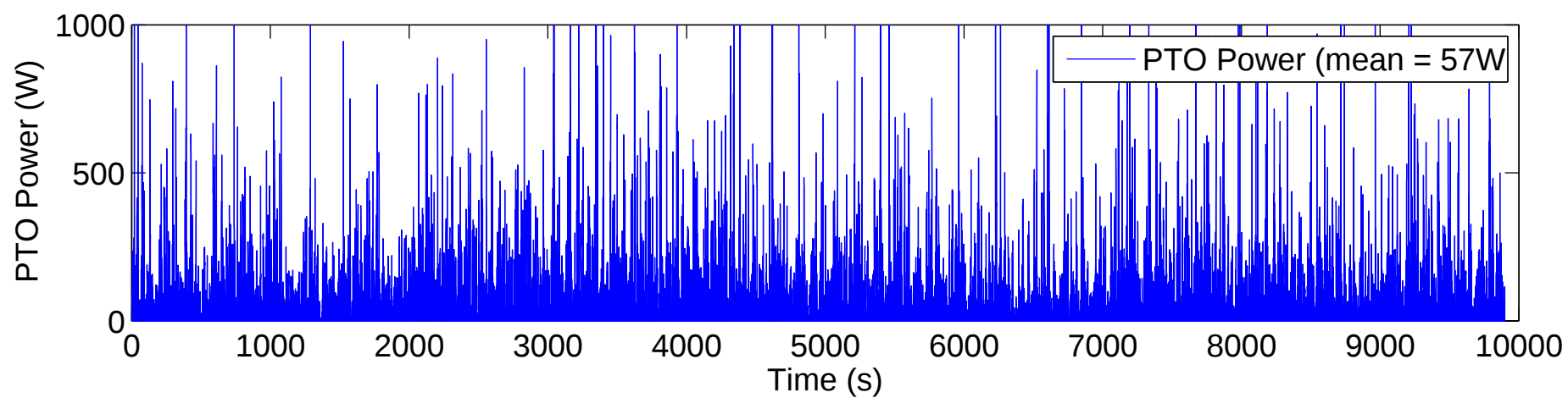
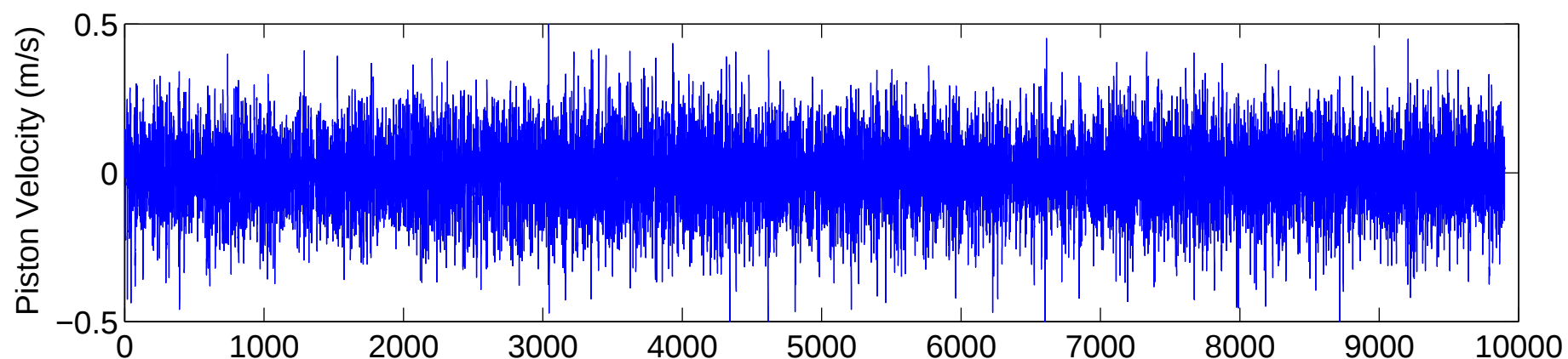
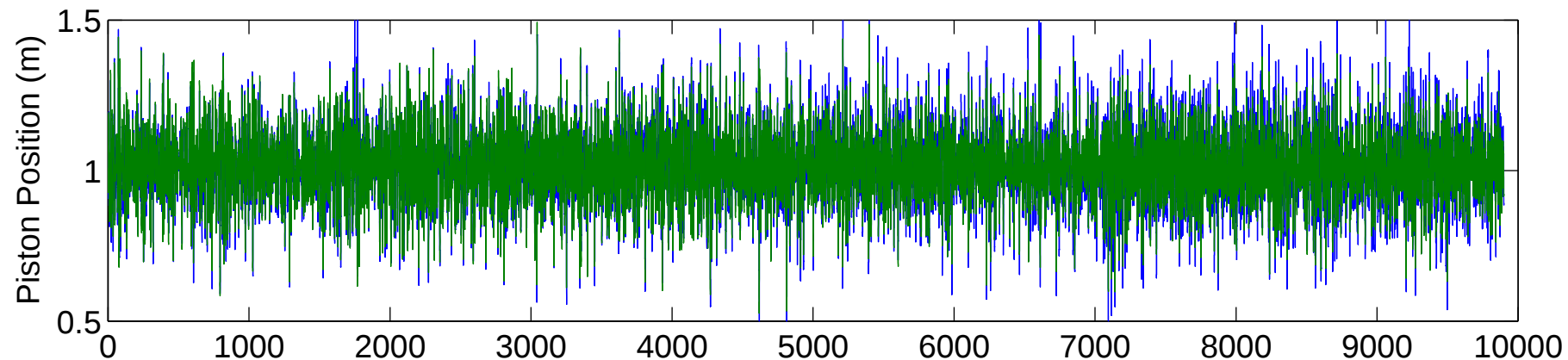
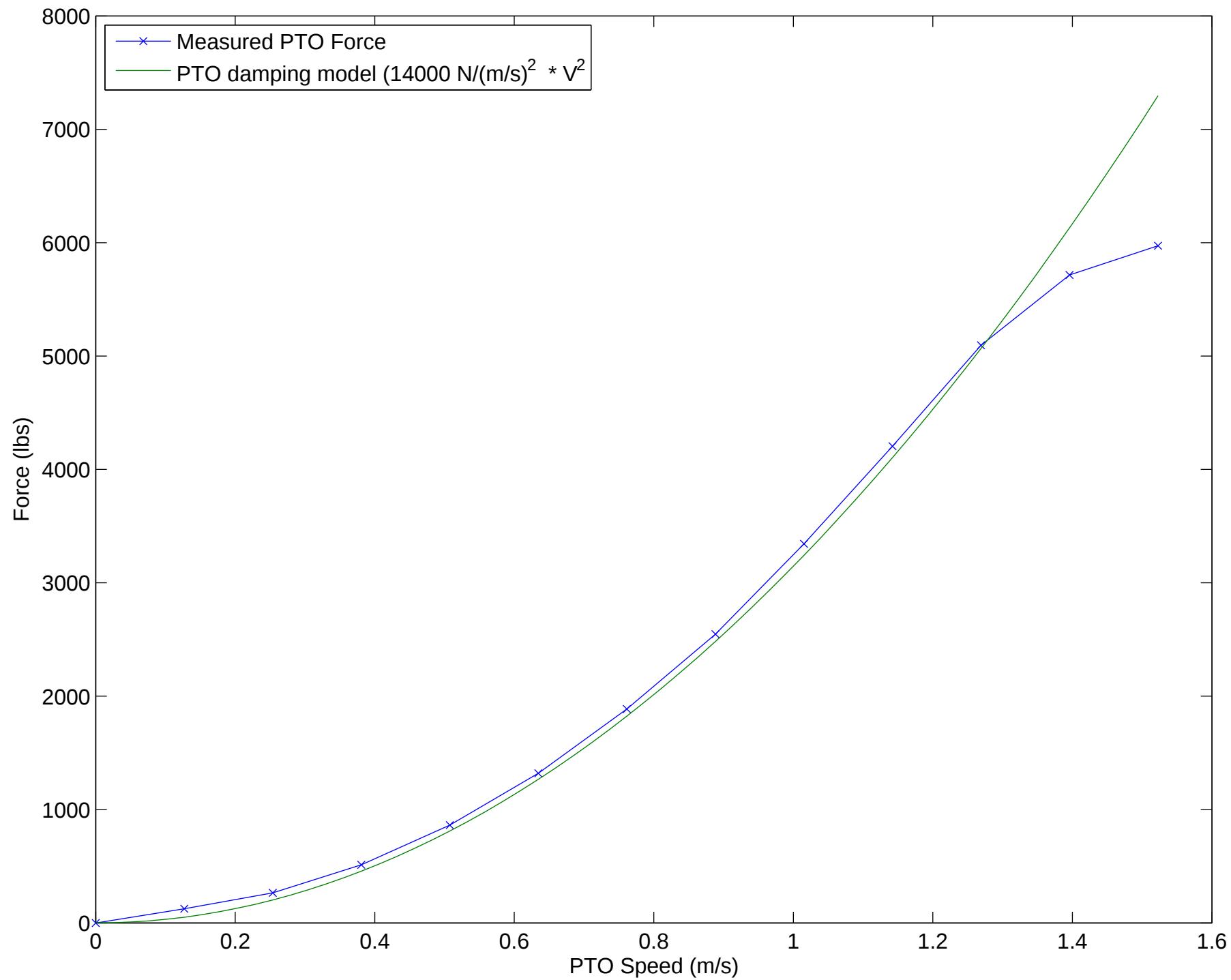


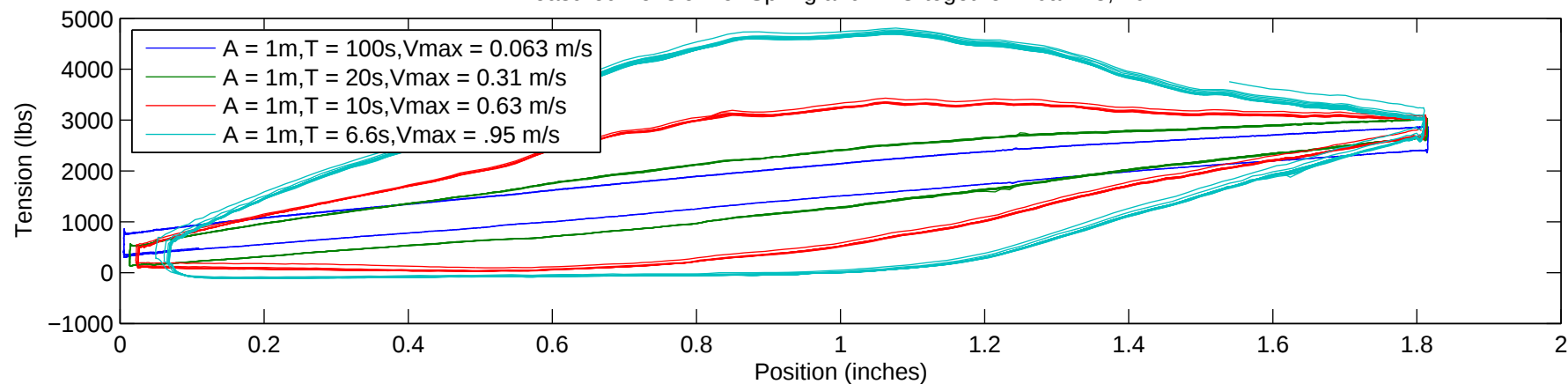
Wave conditions between 19:30 and 22:15 (GMT) on January 25th, 2011



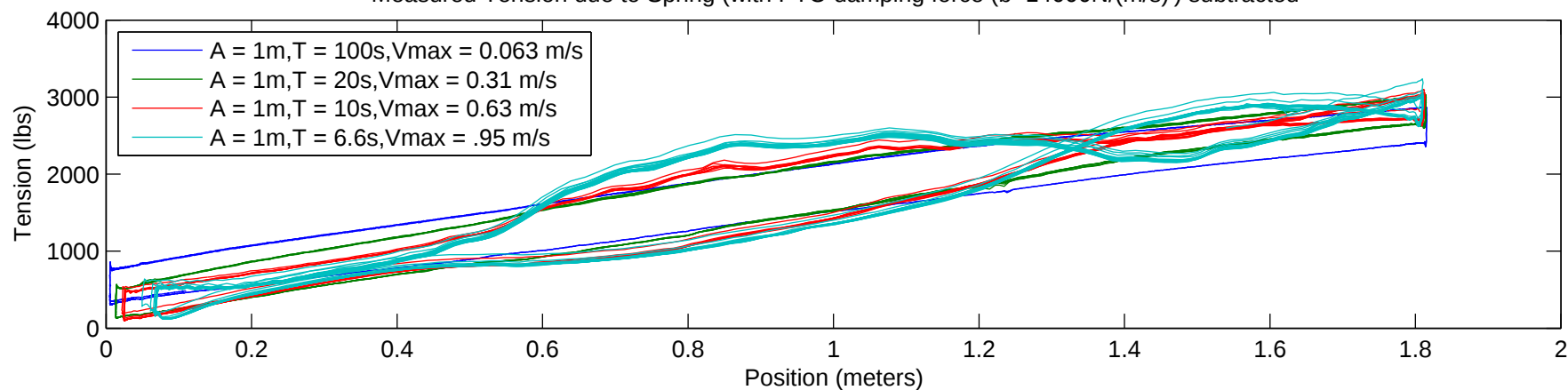




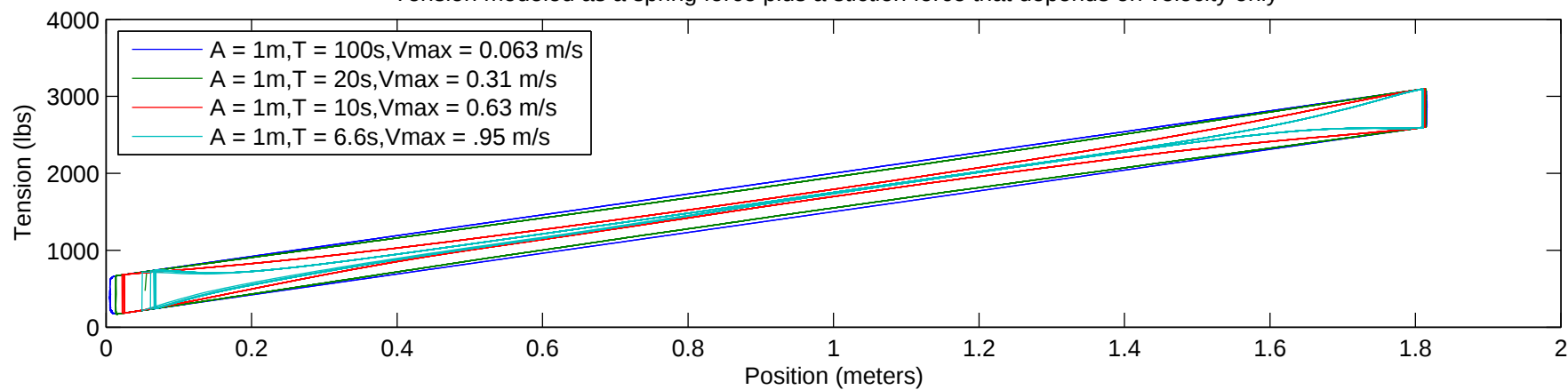
Measured Tension for Spring and PTO together – Jan 13, 2011



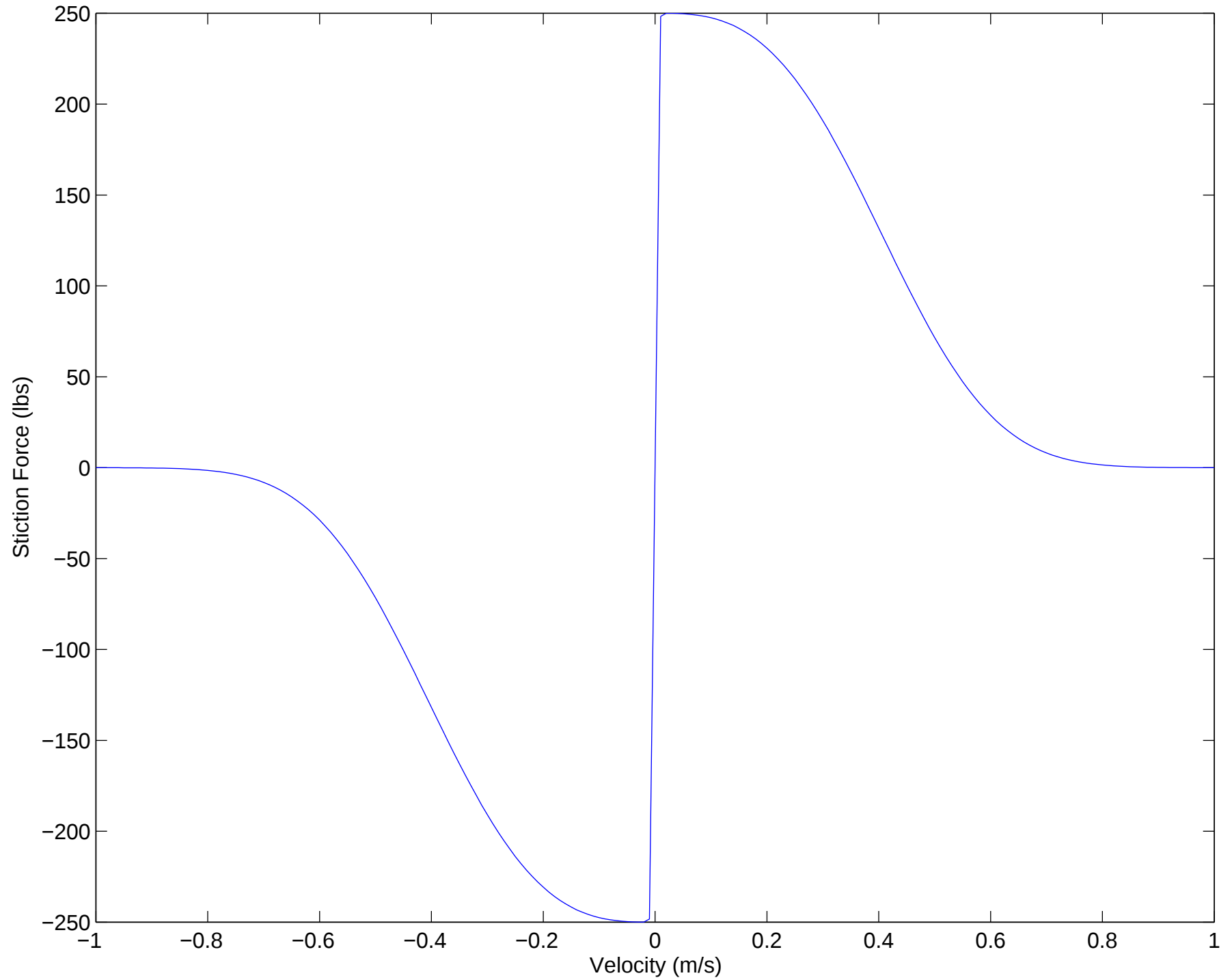
Measured Tension due to Spring (with PTO damping force ($b=14000\text{N}/(\text{m/s}^2)$) subtracted)



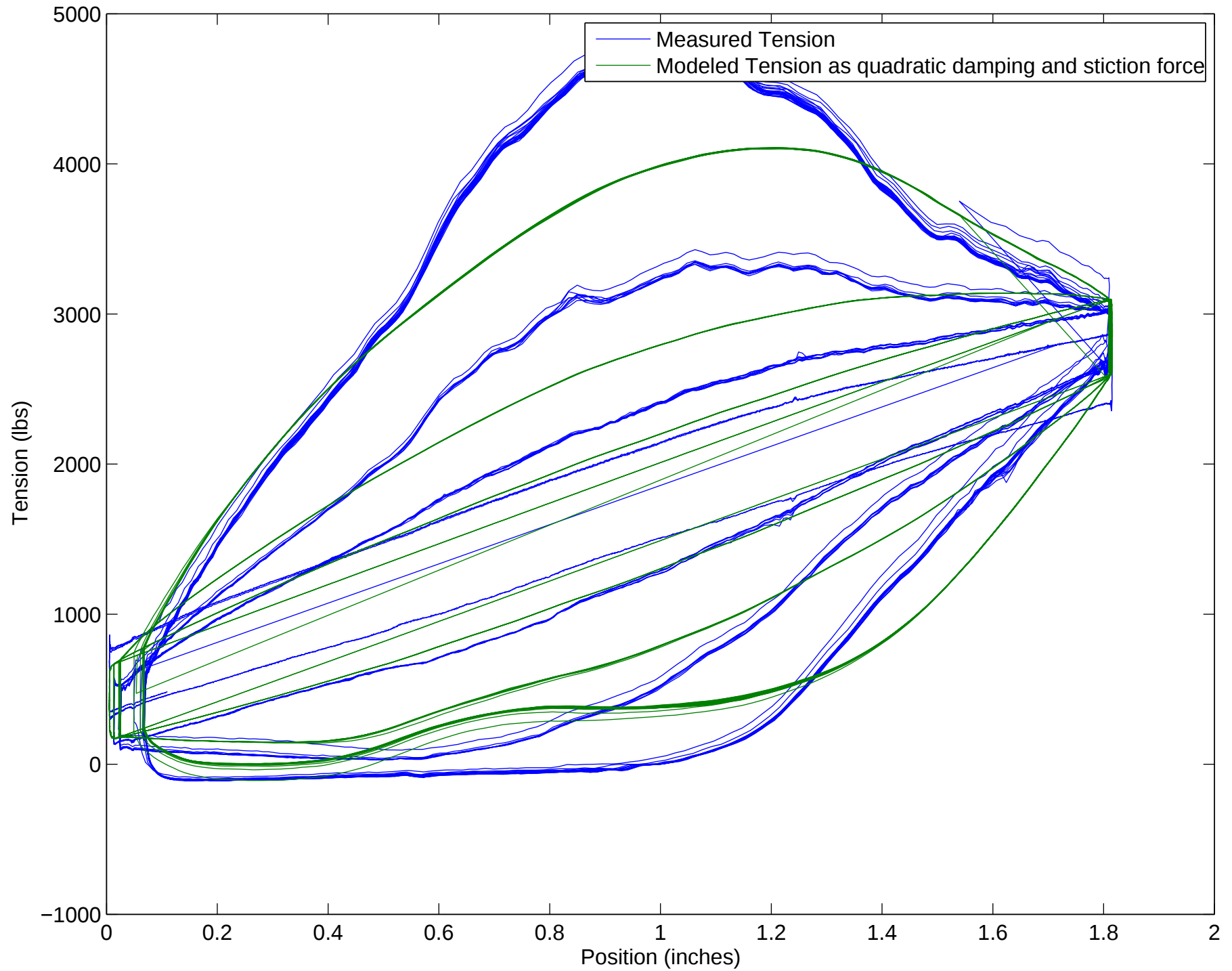
Tension modeled as a spring force plus a stiction force that depends on velocity only



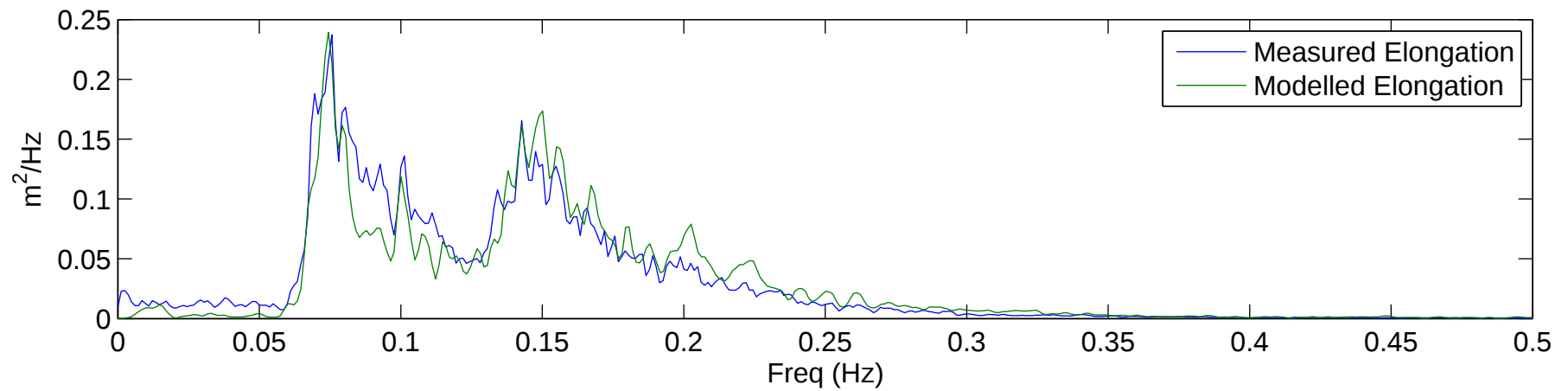
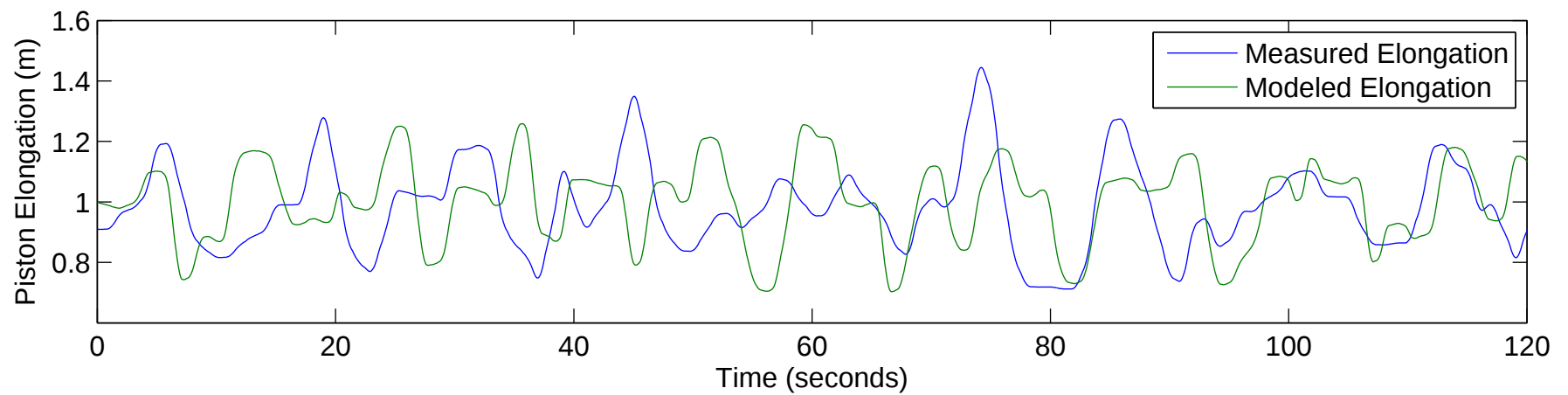
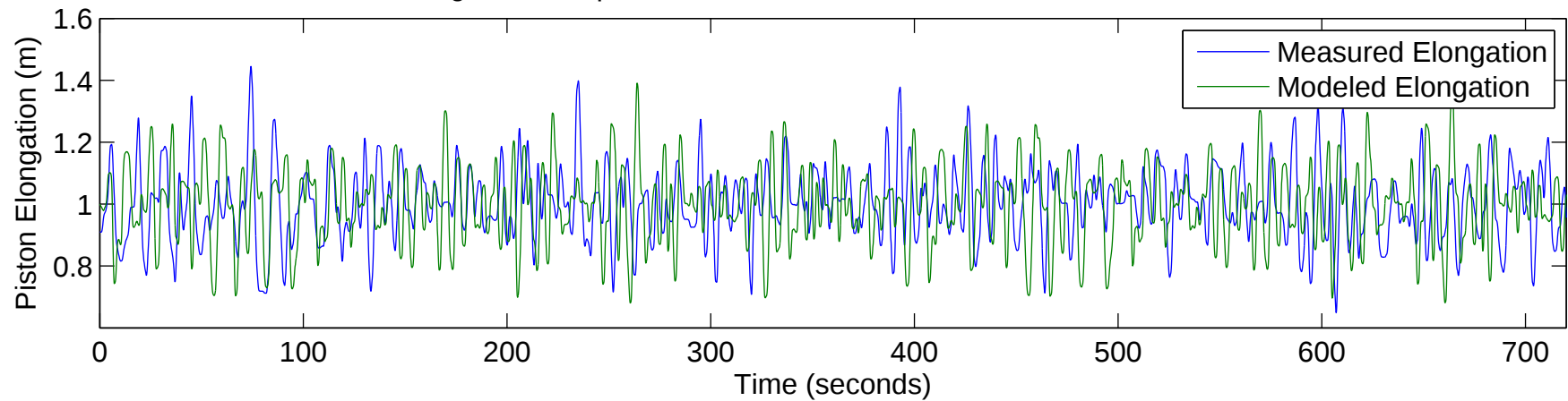
Stiction Force model



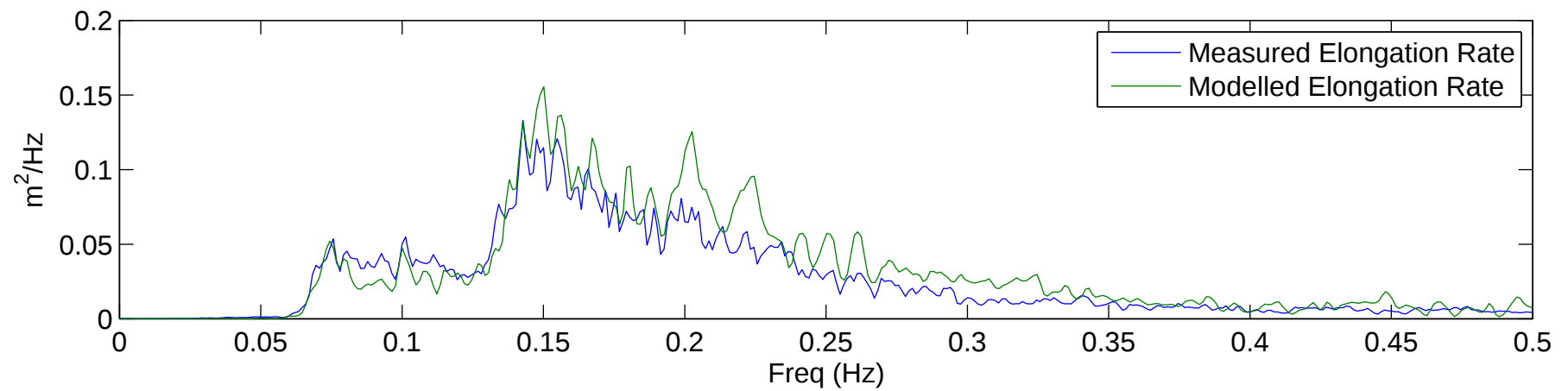
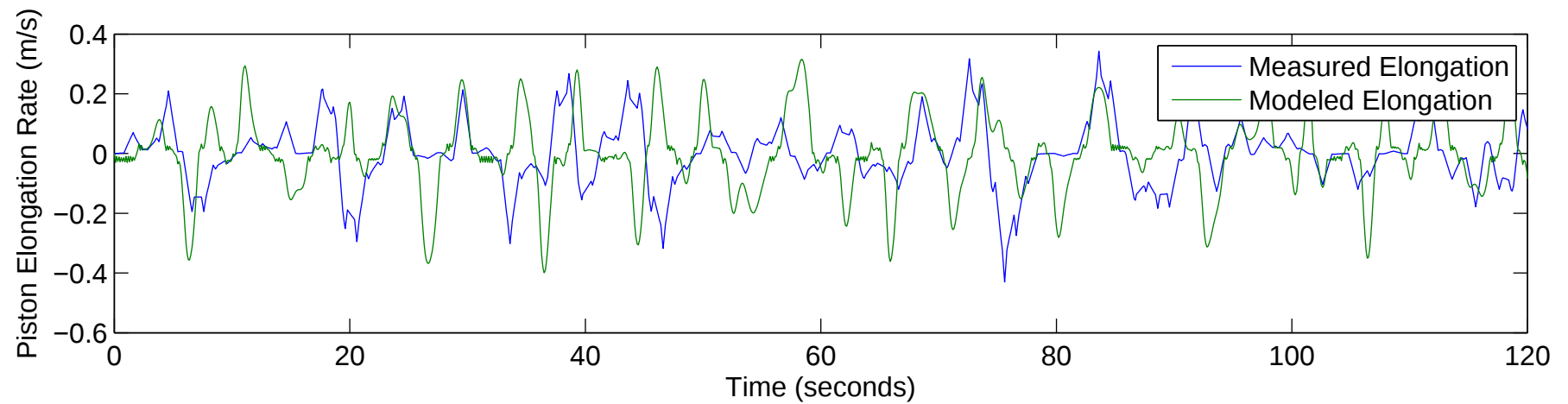
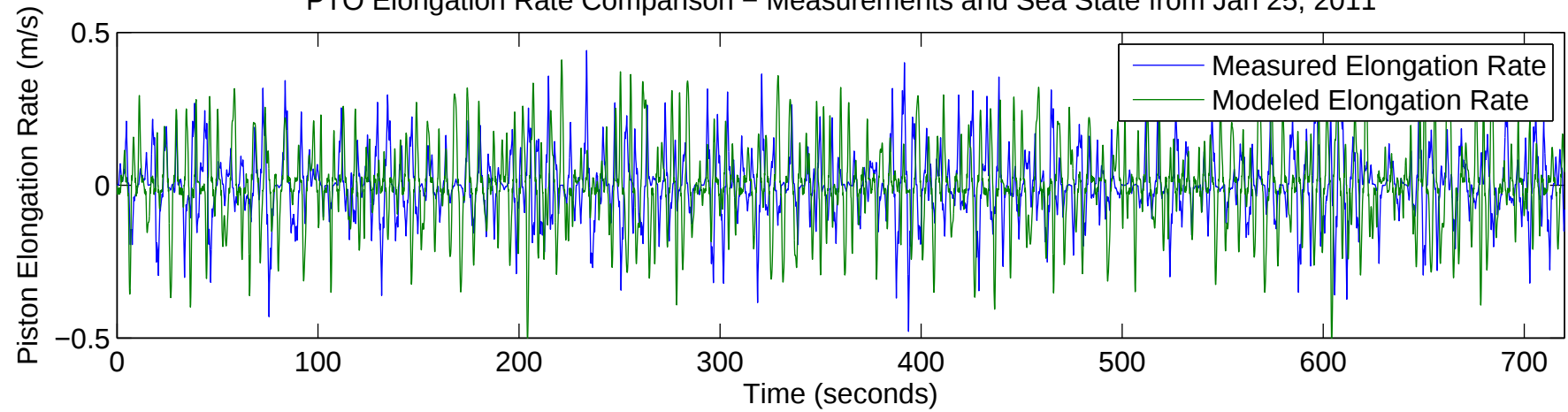
Modeled Tension versus Measured Tension



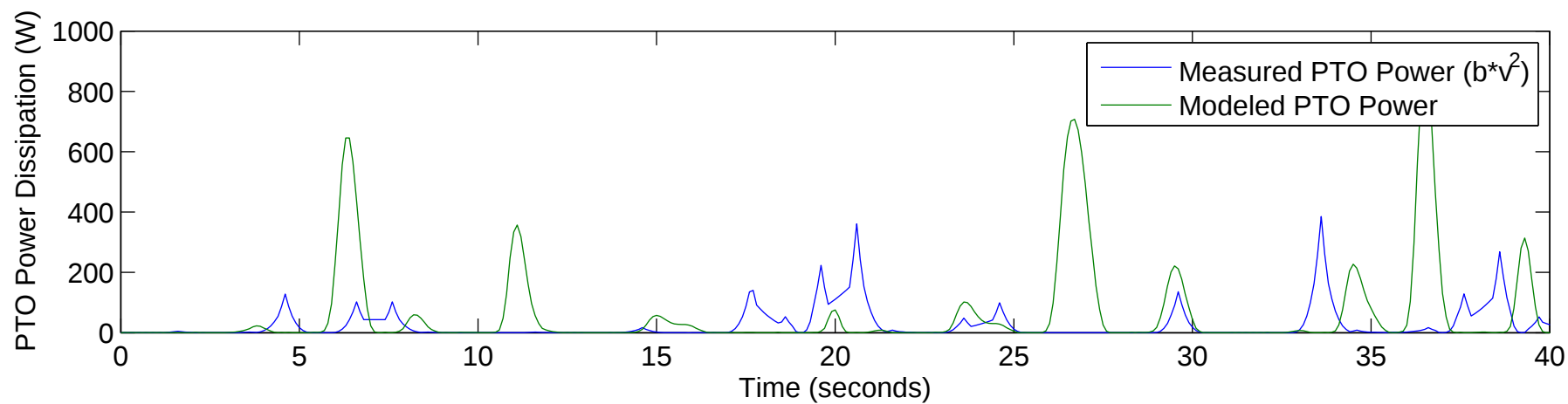
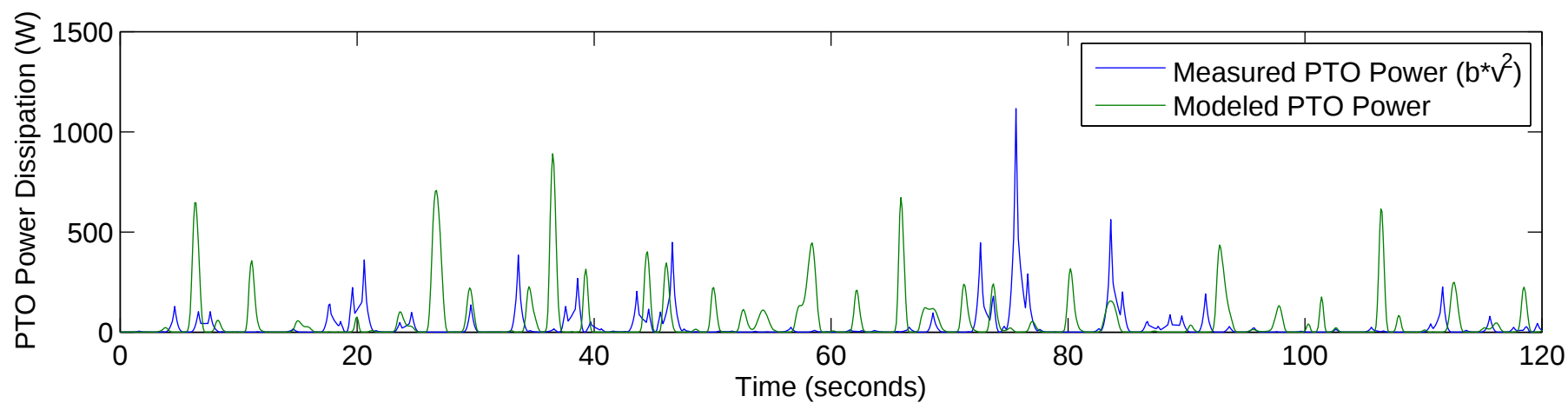
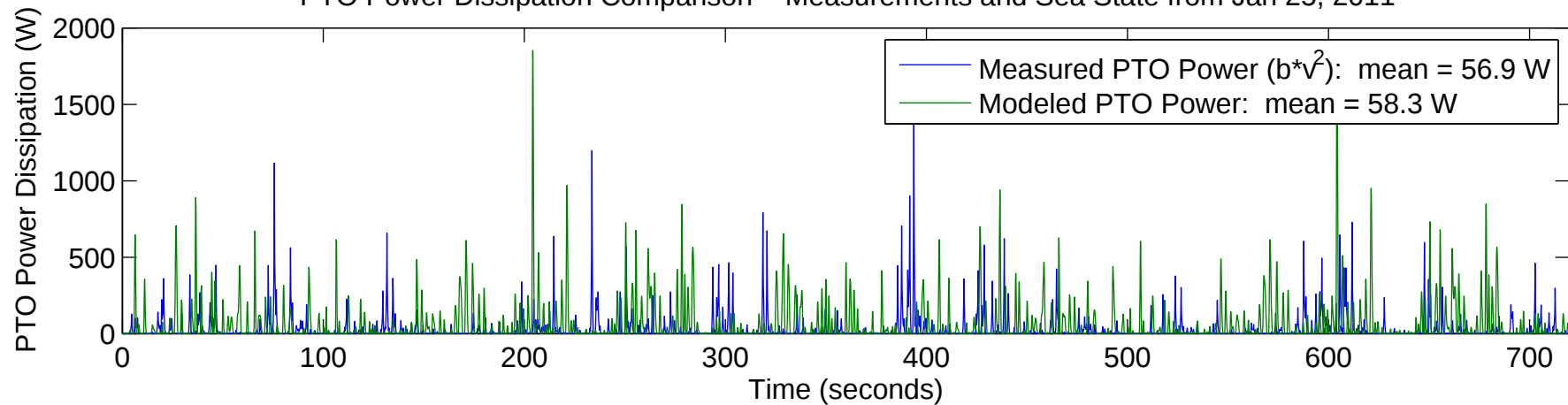
PTO Elongation Comparison – Measurements and Sea State from Jan 25, 2011



PTO Elongation Rate Comparison – Measurements and Sea State from Jan 25, 2011



PTO Power Dissipation Comparison – Measurements and Sea State from Jan 25, 2011



Buoy Heave Velocity Comparison – Measurements and Sea State from Jan 25, 2011

