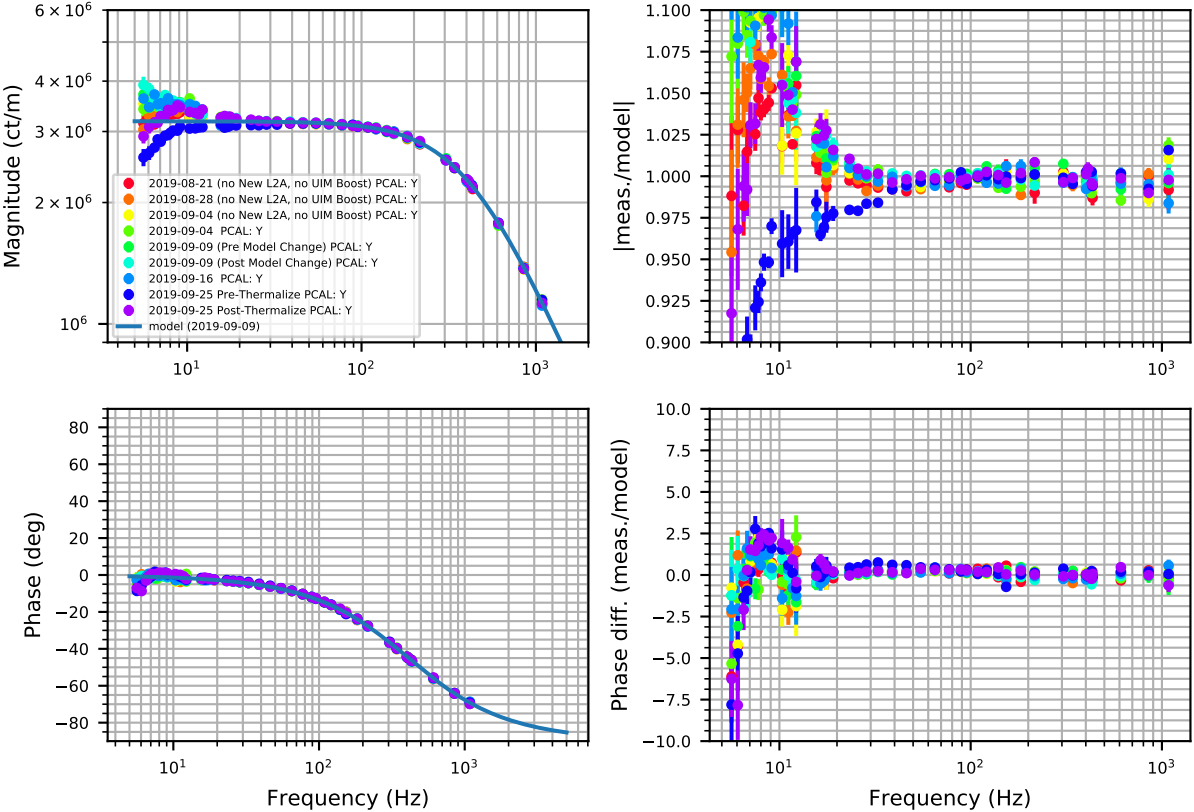H1 Reference Sensing Model Used: $H_C = 3.18e+06$ ct/m, $f_{cc} = 4.11e+02$ Hz, $f_s = 0.0$ Hz, Q=0.01