30.0 knot Pierson-Moskowitz Wave Input ω_{range} = 1.5 to 5 rad/s 0.4_{1} Wave Height 0.3 0.2 0.1 **Position** 0.0 -0.1-0.2-0.3 -0.4_{0}^{\perp} 20 60 80 120 40 100 Time (s)