45 knot Pierson-Moskowitz Wave Input  $\omega_{range}$  = 0.6 to 0.9 rad/s 2.0 Wave Height 1.5 1.0 0.5 **Position** 0.0 -0.5-1.0-1.5 $-2.0^{L}_{0}$ 20 60 80 120 40 100 Time (s)