Boxplot of *ARL*<sub>1</sub> for Various Models on Streaming Data with z and alpha: z:1.96 alpha:2.5, Mean Gap Size of 5 (Outliers in out-of-control Period) 350 250 ARL<sub>1</sub> CTM (z.1.96, a.2.5, (0.15, 10)) SWM (z.1.96, a.2.5, 30) CTM (2:1.96, 2:2.5, (0.1.10)) CTM (Z:1.96, 8:2.5, (0.1, 15)) CTM (2:1.96, 2:2.5, (0:1, 20)) WM (Z:1.96, a:2.5, (0.15, 20)) SWM (2.1.96, a.2.5, 15) SWM (2.1.96, a.2.5,20) WM (Z:1,96,8:25,10.1,20)) SWM (2.1.96, a.2.5,25) WM (Z:1.96,a:2.5,(0.15, 10)) CTM (Z:1.96,a:2.5,(0.15, 15)) CTM (2:1.96, a:2.5, (0.15, 20)) TM (2.1.96, a.2.5, (0.2, 10)) WM (Z:1,96,8:25,(0.1,10)) TM (Z.1.96,a:2.5,(0.1, 15)) WM (Z:1,96,8:25,(0.1,15)) TM (Z:1.96, a:2.5, (0.1, 20)) TM (Z:1.96, 8:2.5, (0.15, 10)) TM (Z:1.96, 3:2.5, (0.15, 20)) WM (Z:1.96,8:25,(0.2, 10)) CTM (2:1.96,3:2.5,10.2,10)) TM (Z:1.96,a:2.5,(0.2, 15))

Model (Parameters)