Boxplot of ARL<sub>1</sub> for Various Models on Streaming Data with z and alpha: z:1.6449 alpha:1, Mean Gap Size of 1, Data Variance of 4 (Outliers in in-control Period) 400 350 ARL<sub>1</sub> 150 100 CTM (Z:1.6449, a:1, (0.1, 20))
SWM (Z:1.6449, a:1, 25) CTM (Z:1.6449, 2:1, (0.15, 10))
CTM (Z:1.6449, 2:1, 30) CTM (2:1,6449,a:1,10:15,20)) WM (Z:1,6449,3:1,(0.1,10)) CTM (Z:1.6449, a:1, (0.1, 10)) TM (Z:1,6449,3:1,10.1,15)) WM (Z:1.6449, a:1, (0.1, 15)) CTM (Z:1.6449, a:1, (0.1, 15)) SWM (2.1.6449, a.1,20) TM (Z:1,6449,3:1,10.1,201) WM (2:1.6449, a:1, (0:1, 20)) TM (2:1.6449, a:1, (0.15, 10)) WM (2:1,6449,3:1,(0.15,10)) WM (Z:1.6449, 3:1, (0.15, 15)) CTM (Z:1,6449,2:1,(0.15, 15)) TM (Z:1.6449, a:1, 10.15, 201) WM (2:1,6449,3:1,10.15,20)) TM (Z.1, 6449, 2.1, (0.2, 10)) WM (Z:1, 6449, 2:1, (0.2, 10)) CTM (Z:1.6449, 3:1, (0.2, 10)) TM (Z:1,6449,3:1,10.2,151) WM (Z:1,6449,a:1,10.2,15))

Model (Parameters)