Boxplot of ARL<sub>1</sub> for Various Models on Streaming Data with z and alpha: z:1.96 alpha:1, Mean Gap Size of 10, Data Variance of 1 (Outliers in out-of-control Period)  $ARL_1$ CTM (z:1.96, a:1, (0.1, 15))
SWM (z:1.96, a:1, 20) CTM (z:1.96, a:1, (0.1, 20)) CTM (z:1.96,a:1,(0.15, 10)) (z:1.96,a:1,30) CTM (Z:1.96, a:1, (0.1, 10)) TM (Z:1.96, a:1, (0.1, 15)) WM (z:1.96, a:1,(0.1, 15)) TM (Z:1,96,3:1,10.1,20)) WM (X:1.96, a:1, (0.1, 20)) WM (Z:1.96, 8:1, (0.15, 10)) CTM (Z:1.96, 2:1, (0.15, 15)) TM (Z:1.96,a:1,10.15,20)) WM (Z:1,96,8:1,(0.15,20)) CTM (z:1.96,3:1,(0.15,20)) TM (Z:1.96,3:1,(0.2,10)) WW (5:1:06:8:1,(0:2,10)) WM (z:1.96,a:1,(0.2,15)) CTM (2:1,96,3:1,10.2,15)) WM (z:1.96,a:1,(0.1,10)) SWM (2:1.96, a.1, 15) TM (Z:1,96,8:1,10.15,10)) wm (z:1.96,8:1,(0.15, 15)) CTM (Z:1.96.3:1,(0.2,10)) TM (Z:1.96,2:1,(0.2, 15)) Model (Parameters)