**ASK2014 Log-Normal Comparision** 8.0 1s SA, ASK2014 Mean = 0.460.7 0.6 0 km < rJB < 70 kmDensity 0.4 0.3 7 < Mw < 80.2 0.1 0 0.8 2s SA, ASK2014 Mean = 0.370.7 0.6 0 km < rJB < 70 km7 < Mw < 80.4 0.3 0.3 0.2 0.1 0.8 3s SA, ASK2014 Mean = 0.190.7 0.6 0 km < rJB < 70 kmDensity 0.4 0.3 7 < Mw < 80.3 0.2 0.1 0 8.0 5s SA, ASK2014 0.7 Mean = -0.090 km < rJB < 70 km0.6 Density 0.4 0.3 7 < Mw < 80.2 0.1 0 0.8 10s SA, ASK2014 Mean = -0.90.7 0.6 0 km < rJB < 70 km0.5 0.4 7 < Mw < 8**□** 0.3 0.2 0.1 0 -0.5 -3.0 -2.5 -1.5 -1.0 0.0 0.5 1.0 2.0 -2.0 2.5 3.0 1.5 **ASK2014 Standard Deviation** ■RSQSim — Standard Normal - Mean

DATASET #1 (line: Histogram, width=1.0; color: 128,128,128)

RSQSim

DATASET #2 (line: Solid, width=2.0; color: 0,0,0)

Standard Normal

DATASET #3 (line: Dashed, width=2.0; color: 0,0,255)

Mean

DATASET #4 (line: Histogram, width=1.0; color: 128,128,128)

**RSQSim** 

DATASET #5 (line: Solid, width=2.0; color: 0,0,0)

Standard Normal

DATASET #6 (line: Dashed, width=2.0; color: 0,0,255)

Mean

DATASET #7 (line: Histogram, width=1.0; color: 128,128,128)

**RSQSim** 

DATASET #8 (line: Solid, width=2.0; color: 0,0,0)

Standard Normal

DATASET #9 (line: Dashed, width=2.0; color: 0,0,255)

Mean

**RSQSim** 

DATASET #10 (line: Histogram, width=1.0; color: 128,128,128)

DATASET #11 (line: Solid, width=2.0; color: 0,0,0)

Standard Normal

DATASET #12 (line: Dashed, width=2.0; color: 0,0,255)

Mean

DATASET #13 (line: Histogram, width=1.0; color: 128,128,128)

RSQSim

DATASET #14 (line: Solid, width=2.0; color: 0,0,0)

Standard Normal

DATASET #15 (line: Dashed, width=2.0; color: 0,0,255)

Mean