**BSSA2014 Log-Normal Comparision** 8.0 1s SA, BSSA2014 0.7 Mean = -0.080.6 140 km < rJB < 200 km ensity 0.4 6.5 < Mw < 7Õ 0.3 0.2 0.1 0 0.8 2s SA, BSSA2014 0.7 Mean = 0.33140 km < rJB < 200 km 0.6 ij 6.5 < Mw < 70.4 0.4 O 0.3 0.2 0.1 0 8.0 3s SA, BSSA2014 Mean = 0.340.7 0.6 140 km < rJB < 200 km Density 0.4 0.3 6.5 < Mw < 70.3 0.2 0.1 0 8.0 0.7 5s SA, BSSA2014 Mean = -0.060.6 140 km < rJB < 200 km )ensity 6.5 < Mw < 7O 0.3 0.2 0.1 0 0.8 10s SA, BSSA2014 Mean = 0.480.7 0.6 140 km < rJB < 200 km ij 0.5 6.5 < Mw < 70.4 0.4 O 0.3 0.2 0.1 0 -2.5 -0.5 0.0 0.5 1.0 -3.0 -2.0 -1.5 -1.0 1.5 2.0 2.5 3.0 **BSSA2014 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