

CSm - Derived - Thinning factor 1 dnantiles Method 0.76 1.2 • bulk Relative ESS 9.0 6.1 9.0 6.1 0.74 tail Trace Plot 0.72 0.70 Rank Plot <u>ම</u> 0.8 6.0 ESS Relative – 0.4 0.68 Relative I 0.66 0.2 0.64 2000 500 1000 4000 8.0 4000 0 1.0 2000 0.2 0.6 8.0 0.6 0.0 0.2 Rank (all chains) Quantile Quantile Total number of draws CSm - Derived - Thinning factor 10 dnantiles 1.0 Method 0.76 1.2 • bulk Relative ESS 9.0 6.1 9.0 6.1 0.74 🗕 tail Trace Plot 0.72 0.70 Rank Plot ව<u>්</u> 0.8 6.0 ESS Relative 7.0 elative 5.0 0.68 0.66 0.2 0.64 0.0 0.0 1000 2000 500 4000 0.2 0.6 0.2 8.0 1.0 2000 4000 8.0 1.0 0.6 0 0.0 0.4 0.4 Rank (all chains) Quantile Quantile Total number of draws CSm - Derived - Thinning factor 100 r small intervals 0.1 1.0 8.0 dnantiles 1.0 Method 0.76 1.2 • bulk Relative ESS 9.0 9.0 4.0 0.74 • tail Tace Flot 0.72 0.70 Rank Plot ESS for 9.0 8.0 0.68 Relative 0.66 0.2 0.2 0.0+ 0.0 0.64 1000 2000 4000 500 4000 0.2 8.0 2000 0.2 8.0 0.6 0.4 1.0 0 0.0 0.6 1.0 Quantile Quantile Rank (all chains) Total number of draws CSm - Derived - Thinning factor 1000 dnantiles 1.0 Method 0.76 1.2 • bulk Relative ESS 9.0 9.0 9.1 0.74 🗕 tail Trace Plot 0.72 0.70 Rank Plot for ESS 0.6 Relative 0.68 0.66 0.2 0.2 0.0 + 0.0 0.64 0.0 1000 2000 4000 0.4 0.6 Quantile 2000 500 0.2 8.0 1.0 0.2 8.0 1.0 4000 0.4 0.6 0.4 0 0.0 Rank (all chains) Quantile Total number of draws

CSm - Interpolated - Thinning factor 1 0.69 dnantiles Method 1.2 • bulk 0.68 Relative ESS 9.0 6.1 9.0 6.1 tail Rank Plot <u>ම</u> 0.8 6.0 ESS Relative I 0.66 Relative I 0.2 0.65 0.0 1000 2000 500 4000 0.6 8.0 0.6 8.0 4000 0 1.0 2000 0 0.2 0.2 1.0 0.0 0.0 Rank (all chains) Quantile Quantile Total number of draws CSm - Interpolated - Thinning factor 10 0.69 dnantiles Method 1.2 • bulk 0.68 🕶 tail Trace Plot 69.0 Rank Plot ව් 0.8 6.0 ESS Relative 7.0 elative 5.0 Relative F 0.2 0.65 0.0 0.0 1000 2000 500 4000 0.2 1.0 2000 0.6 8.0 1.0 0.6 8.0 4000 0 0.0 0.2 0.4 0 0.4 Rank (all chains) Quantile Quantile Total number of draws CSm - Interpolated - Thinning factor 100 r small intervals 0.1 1.0 8.0 0.69 dnantiles Method 1.2 • bulk 0.68 • tail <u>ව</u> 0.8 6.0 ESS 1 0.66 0.2 0.65 0.0 + 0.0 1000 2000 500 4000 8.0 0.2 8.0 2000 4000 1.0 0.6 1.0 0 0.0 0.2 0.6 Quantile Quantile Rank (all chains) Total number of draws CSm - Interpolated - Thinning factor 1000 small intervals 0.0 8.0 8.0 0.69 dnantiles 1.0 Method 1.2 bulk Relative ESS 9.0 9.0 9.0 0.68 Trace Plot 69.0 Rank Plot اؤ^(0.6) 0.2 0.65 0.0 + 0.0 0.0 1000 2000 4000 0.4 0.6 Quantile 2000 500 0.2 8.0 1.0 0.2 8.0 1.0 4000 0.4 0.6 0.4 0 0.0 Rank (all chains) Quantile Total number of draws

CSm - Fitted - Thinning factor 1 0.74 dnantiles Method 1.2 - bulk 0.72 Relative ESS 9.0 8.0 9.0 tail Trace Plot 0.70 89.0 Rank Plot for 8.0 6.0 ESS Relative 2.0 0.2 0.66 0.0 2000 1000 4000 0.6 8.0 0.6 8.0 2000 4000 500 0 1.0 0 0.2 0.2 0.4 0.0 Rank (all chains) Quantile Quantile Total number of draws CSm - Fitted - Thinning factor 10 0.74 dnantiles 1.0 Method 1.2 • bulk 0.72 Relative ESS 9.0 6.1 9.0 6.1 **→** tail Trace Plot 0.70 86.0 Rank Plot ව<u>්</u> 0.8 ESS 0.6 Relative 0.2 Relative E 7:0 0.2 0.66 0.0 0.0 1000 2000 500 4000 0.2 8.0 8.0 1.0 2000 4000 0.6 1.0 0.2 0.6 0 0 0.0 0.4 0.4 Rank (all chains) Quantile Quantile Total number of draws CSm - Fitted - Thinning factor 100 0.74 dnantiles Method 1.2 • bulk 0.72 Relative ESS 9.0 9.0 4.0 – tail Trace Plot 0.70 88.0 Rank Plot ESS for 9.0 8.0 0.2 0.66 0.0 + 0.0 0.0 500 1000 2000 4000 2000 4000 0.2 8.0 8.0 1.0 0.6 0.4 1.0 0 0 0.0 0.2 0.6 Quantile Quantile Total number of draws Rank (all chains) CSm - Fitted - Thinning factor 1000 0.74 dnantiles 1.0 Method 1.2 • bulk 0.72 Relative ESS 9.0 9.0 9.1 Trace Plot 0.70 89.0 Rank Plot for 8.0 ESS 0.6 Relative 0.2 0.2 0.66 0.0+ 0.0 0.0 1000 2000 0.4 0.6 Quantile 4000 2000 500 0.2 8.0 1.0 0.2 8.0 1.0 4000 0.4 0.6 0.4 0 0.0 Rank (all chains) Quantile Total number of draws

CSm - ScaledConsensus - Thinning factor 1 0.60 dnantiles Method 1.2 • bulk Relative ESS 9.0 6.1 9.0 6.1 tail Trace Plot 95.0 Rank Plot ම් 0.8 6.0 ESS Relative -Relative I 0.2 0.54 0.0 1000 2000 500 4000 0.6 8.0 2000 0 0.6 1.0 4000 0 0.2 8.0 0.2 0.0 0.0 Quantile Quantile Rank (all chains) Total number of draws CSm - ScaledConsensus - Thinning factor 10 0.60 dnantiles 1.0 Method 1.2 • bulk 🗕 tail Trace Plot 95.0 Rank Plot و.8 8.0 لو 6.0 ESS Relative 7.0 elative 5.0 Relative D.00 0.54 0.2 0.2 0.0 1000 2000 500 4000 0.2 0.6 0.6 8.0 1.0 2000 4000 8.0 1.0 0.2 0 0.0 0.4 0.0 0.4 0 Quantile Rank (all chains) Quantile Total number of draws CSm - ScaledConsensus - Thinning factor 100 0.60 dnantiles Method 1.2 • bulk Relative ESS 9.0 9.0 4.0 • tail Rank Plot වි 0.8 6.0 ESS 1 Relative 2.0 4.0 0.54 0.2 0.0 + 0.0 500 1000 2000 4000 0.2 8.0 2000 4000 8.0 0.6 1.0 0 0 0.0 0.2 0.6 1.0 Quantile Quantile Total number of draws Rank (all chains) CSm - ScaledConsensus - Thinning factor 1000 0.60^{-1} dnantiles 1.0 Method 1.2 • bulk Trace Plot 95.0 tail Plot ESS for 8.0 0.6 Relative 0.54 0.2 0.2 0.0+ 0.0 0.0 500 1000 2000 4000 2000 4000 0.2 8.0 1.0 0.2 8.0 1.0 0.4 0.6 0.4 0.6 0 0.0 Rank (all chains) Quantile Quantile Total number of draws