ATPS3m - Fitted - Thinning factor 1 small intervals 0.1 0.8 dnantiles 1.0 Method 10.40 1.2 - bulk Relative ESS 9.0 6.1 9.0 6.1 tail Tace Plot 10.35 Rank Plot 8.0 ල<u>්</u> رة 0.6 أ 6.0 ESS SS3 0.4 Relative B 0.4 10.25 Relative I 0.2 0.2 10.20 0.0 0.0 4000 1000 2000 0.6 2000 500 4000 0.8 1.0 0 0.2 0.6 8.0 0.0 Rank (all chains) Quantile Quantile Total number of draws ATPS3m - Fitted - Thinning factor 10 small intervals 0.1 2.1 8.0 8.0 10.40 dnantiles 1.0 Method 1.2 • bulk 10.35 Relative ESS 9.0 6.1 8.0 4.0 🕶 tail Trace Plot Rank Plot 8.0 وَ 6.0 ESS 1 0.6 SS3 0.4 Relative F 10.25 Relative 2.0 0.0 2.0 2.0 0.2 10.20 0.0 0.0 500 1000 2000 4000 0.2 0.2 0.6 2000 4000 0.4 0.6 8.0 1.0 0.0 8.0 1.0 0.4 0 0.0 Quantile Rank (all chains) Quantile Total number of draws ATPS3m - Fitted - Thinning factor 100 small intervals drautiles 1.0 Method 10.350 1.2 bulk 10.325 — tail 10.300 10.275 Rank Plot 8-0 4 2.0 4 10.250 0.2 10.225 0.0 500 1000 2000 2000 4000 4000 0.2 0.0 8.0 8.0 1.0 0.6 1.0 Rank (all chains) Quantile Quantile Total number of draws ATPS3m - Fitted - Thinning factor 1000 small intervals 0.1 0.8 8.0 0.1 Method 1.2 • bulk 10.35 Relative ESS 0.0 0.0 0.0 0.1 0.0 0.1 0.0 0.0 0.1 Trace Plot Rank Plot ۇ 0.6 Relative ESS f 10.25 0.2 0.0 0.0 500 2000 4000 0.4 0.6 Quantile 0.4 0.6 Quantile 2000 1000 0.2 1.0 4000 0.4 8.0 8.0 0 1.0 0.0 0.2 Rank (all chains) Total number of draws

ATPS3m - Fitted - Thinning factor 1 small intervals 1.0 8.0 duantiles 1.0 10.85 Method 1.2 - bulk 10.80 tail 한 10.75 한 10.70 10.65 Rank Plot <u>ම</u> 0.8 و 0.6 6.0 ESS ESS 0.4 Relative 7:0 Relative I 10.60 0.2 10.55 0.0 1000 2000 500 4000 8.0 4000 2000 0 0.2 0.6 8.0 0.6 1.0 1.0 0.0 0.0 Quantile Rank (all chains) Quantile Total number of draws ATPS3m - Fitted - Thinning factor 10 small intervals 1.0 8.0 10.85 dnantiles 1.2 Method 1.2 • bulk 10.80 Relative ESS 9.0 8.0 9.1 **→** tail 10.75 0 10.70 10.65 Rank Plot 8.0 و رة 0.6 ا 6.0 ESS ESS 4 Relative I 10.60 0.2 0.0 0.0 500 1000 2000 4000 0.0 0.2 0.6 8.0 1.0 0.2 2000 4000 0.6 8.0 1.0 0.4 0 0 0.0 0.4 Quantile Quantile Rank (all chains) Total number of draws ATPS3m - Fitted - Thinning factor 100 small intervals 0.1 8.0 10.9 dnantiles 1.0 Method 1.2 • bulk Relative ESS 9.0 0.0 9.0 0.1 Tace Pot 10.7 • tail Rank Plot <u>ල</u> 0.8 tor 6.0 ESS 0.6 Relative ESS f 0 0 0 0 00 0 0 0 Relative 10.6 0.2 0.2 0.0 500 1000 2000 4000 0.0 2000 4000 0.0 8.0 1.0 0.2 0.6 8.0 1.0 0.2 0.6 Rank (all chains) Quantile Quantile Total number of draws ATPS3m - Fitted - Thinning factor 1000 small intervals 0.0 0.0 8.0 1.4 Method 10.85 1.2 bulk Relative ESS 0.0 0.0 8.0 8.0 8.0 8.0 10.80 Tace 10.75 Rank Plot ر <mark>0.6 م</mark> Relative ESS f Relative F 10.65 0.2 10.60 0.0 + 0.0 0.0 1000 0.4 0.6 Quantile 500 2000 0.4 0.6 Quantile 2000 4000 0.2 1.0 0.2 8.0 1.0 4000 8.0 0.4 0 0.4 Total number of draws Rank (all chains)

ATPS3m - Fitted - Thinning factor 1 small intervals 0.1 8.0 8.0 10.9 duantiles 1.0 Method 1.2 • bulk tail Trace Plot 10.7 Rank Plot <u>ම</u> 0.8 و 0.6 8.0 ESS ESS 0.4 8-10 Accordance
8-10 Accordance
9-10 Accorda Relative I 0.2 10.6 0.0 2000 500 1000 4000 0.2 0.6 8.0 4000 1.0 2000 0 0.6 8.0 0.2 1.0 0.0 0.4 0.0 Quantile Rank (all chains) Quantile Total number of draws ATPS3m - Fitted - Thinning factor 10 small intervals 0.0 8.0 dnantiles 1.2 Method 10.85 1.2 - bulk Relative ESS 9.0 8.0 9.1 **→** tail 10.80 10.80 Port 10.75 Rank Plot 8.0 و ا 0.6 فو 6.0 ESS ESS 4 Relative 0.4 0.2 10.65 Relative I 0.2 10.60 0.0 0.0 1000 500 2000 4000 0.0 0.2 0.6 0.2 2000 4000 8.0 1.0 0.6 0.0 8.0 1.0 0 0.4 0.4 0 Quantile Quantile Rank (all chains) Total number of draws ATPS3m - Fitted - Thinning factor 100 small intervals 0.1 8.0 8.0 dnantiles 1.0 Method 10.85 1.2 • bulk Relative ESS 9.0 0.0 9.0 0.1 10.80 – tail 10.75 10.75 10.70 Rank Plot <u>ල</u> 0.8 ر أو 0.6 6.0 ESS Relative ESS 1 0 0 0 0 0 0 0 0 elative 10.65 0.2 0.2 10.60° 0.0 500 1000 2000 4000 2000 4000 0.0 8.0 1.0 0.2 0.6 0.0 8.0 1.0 0.2 Rank (all chains) Quantile Quantile Total number of draws ATPS3m - Fitted - Thinning factor 1000 small intervals 8.0 1.1 2.0 8.0 10.9 dnantiles 1.0 1.2 Relative ESS 0.0 0.0 8.0 8.0 8.0 8.0 Tace Plot 10.7 Rank Plot ESS for 9.0 8.0 يّ 0.6 Relative ESS f Relative F Method bulk 0.2 10.6 tail 0.0 + 0.0 0.0 1000 2000 0.4 0.6 Quantile 2000 500 0.2 1.0 0.2 8.0 1.0 4000 8.0 0.4 0.6 4000 0 0.4 Rank (all chains) Quantile Total number of draws

ATPS3m - Fitted - Thinning factor 1 small intervals 0.1 8.0 duantiles 1.0 10.80 Method 1.2 - bulk Relative ESS 0.0 0.0 0.0 0.1 0.0 0.0 0.1 tail Tace Pot 10.70 Rank Plot <u>ම</u> 0.8 بة _{0.6} 8.0 ESS ESS 0.4 Relative 5.0 8.0 10.65 Relative I 0.2 10.60 0.0 500 1000 2000 4000 8.0 4000 2000 0 0.0 0.2 0.6 1.0 0.6 8.0 1.0 0.2 0.0 Rank (all chains) Quantile Quantile Total number of draws ATPS3m - Fitted - Thinning factor 10 small intervals 1.0 8.0 8.0 dnantiles 1.2 Method 10.85 1.2 • bulk Relative ESS 9.0 8.0 9.1 10.80 **→** tail Tace Do: 10.75 Rank Plot 8.0 <u>d</u> 9.0 for 8.0 ESS ESS 0.4 8elative 2.0 ative 10.65 Relative I 0.0 0.0 0.2 10.60 0.0 1000 500 2000 4000 0.0 0.2 0.6 8.0 2000 4000 1.0 0.2 0.0 8.0 1.0 0.4 0 0 Quantile Quantile Rank (all chains) Total number of draws ATPS3m - Fitted - Thinning factor 100 small intervals 0.1 8.0 8.0 dnantiles 1.0 Method 10.85 1.2 • bulk Relative ESS 9.0 0.0 9.0 0.1 10.80 • tail 10.75 Tace 10.75 Rank Plot 8.0 وَإ ر <mark>ک</mark> 0.6 آ 6.0 ESS 10.65 0.2 0.2 10.60 0.0 500 1000 2000 4000 2000 4000 0.0 8.0 0.2 0.6 0.0 8.0 1.0 0.2 1.0 Quantile Rank (all chains) Quantile Total number of draws ATPS3m - Fitted - Thinning factor 1000 small intervals 0.0 0.0 8.0 10.9 duantiles 1.0 1.2 Relative ESS 0.0 0.0 0.0 0.1 0.0 0.0 0.1 Trace Plot 10.7 ESS for 9.0 8.0 ر<mark> 9.6 کا</mark> Rank Relative ESS f Relative F Method bulk 0.2 10.6 tail 0.0 + 0.0 0.0 1000 2000 0.4 0.6 Quantile 2000 500 0.2 1.0 0.2 8.0 1.0 4000 8.0 0.4 0.6 4000 0 0.4 Rank (all chains) Quantile Total number of draws

ATPS3m - Fitted - Thinning factor 1 dnantiles Method 10.4 1.2 - bulk Relative ESS 9.0 6.1 9.0 6.1 tail Trace Plot 0.01 Rank Plot <u>ව</u> 0.8 6.0 ESS Relative 2.0 9.8 Relative F 0.2 9.6 0.0 1000 2000 500 4000 8.0 4000 0 0.6 2000 0.2 8.0 1.0 0.0 0.0 Quantile Rank (all chains) Quantile Total number of draws ATPS3m - Fitted - Thinning factor 10 10.2 dnantiles 1.0 Method 1.2 • bulk 10.1 **→** tail Trace Plot 9.9 8.9 Rank Plot ව<u>්</u> 0.8 6.0 ESS Relative 2.0 Relative F 9.7 0.2 9.6 0.0 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 0.4 0 Rank (all chains) Quantile Quantile Total number of draws ATPS3m - Fitted - Thinning factor 100 10.1 dnantiles 1.0 Method 1.2 10.0 • bulk Relative ESS 9.0 9.0 4.0 – tail Trace Plot 9.9 Rank Plot ESS for 9.0 8.0 9.8 Relative 9.7 0.2 0.2 0.0 + 0.0 500 1000 2000 2000 4000 8.0 4000 0.2 8.0 0.2 0.6 1.0 0 0.0 0.6 1.0 0.4 Quantile Quantile Total number of draws Rank (all chains) ATPS3m - Fitted - Thinning factor 1000 dnantiles 1.0 Method 10.2 1.2 • bulk tail Trace Plot 8.6 8.0 Rank Plot ESS for 8.0 0.6 9.8 Relative 0.4 0.2 0.2 9.6 0.0 + 0.0 0.0 1000 2000 0.4 0.6 Quantile 4000 2000 4000 500 0.2 8.0 1.0 0.2 8.0 1.0 0.4 0.6 0 0.0 Rank (all chains) Quantile Total number of draws