

SUCD2\_u6m - Fitted - Thinning factor 1 small intervals 0.1 8.0 8.0 duantiles 1.0 0.60 Method 1.2 • bulk Relative ESS 0.0 0.0 0.0 0.1 0.0 0.1 0.59 tail O.58 0.58 0.57 Rank Plot <u>ම</u> 0.8 of 0.6 1 8.0 ESS ESS 0.4 Relative 7.0 Relative For Solution 1 0.56 0.2 0.0 1000 500 2000 4000 4000 2000 0 0.8 8.0 0.6 1.0 0.0 0.2 0.0 1.0 Quantile Rank (all chains) Quantile Total number of draws SUCD2\_u6m - Fitted - Thinning factor 10 small intervals 1.0 8.0 0.66 dnantiles 1.2 Method 1.2 • bulk 0.64 Relative ESS 9.0 8.0 9.1 **→** tail Trace Plot 09.0 Rank Plot 8.0 ල් رة 0.6 ا 8.0 ESS SS3 0.4 8elative 2.0 ative 0.58 Relative 7.0 0.0 2.0 0.0 0.2 0.56 0.0 0.0 2000 500 1000 4000 0.2 2000 4000 0.6 8.0 0.2 0.6 0.0 1.0 0.0 8.0 1.0 0 0.4 0 0.4 Quantile Rank (all chains) Quantile Total number of draws SUCD2\_u6m - Fitted - Thinning factor 100 small intervals 0.1 8.0 8.0 0.675 dnantiles 1.0 Method 1.2 0.650 • bulk Relative ESS 9.0 0.0 9.0 0.1 • tail Lage Bot 0.625 of 0.600 of 0.575 Rank Plot <u>ල</u> 0.8 6.0 ESS 0.6 Relative ESS 1 0 0 0 0 0 0 0 0 0.550 0.2 0.2 0.525 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 Quantile Rank (all chains) Quantile Total number of draws SUCD2 u6m - Fitted - Thinning factor 1000 small intervals 0.0 8.0 dnantiles 1.0 Method 1.2 0.58 bulk ഗ 1.0 Trace Plot Rank Plot 8.0 ق 8.0 ر ق 0.6 ESS 0.6 0.6 Relative ESS f Relative 7 0.56 0.2 0.0 + 0.0 0.55 0.0 0.4 0.6 Quantile 500 1000 2000 0.4 0.6 Quantile 2000 0.2 8.0 1.0 0.2 8.0 1.0 4000 4000 0.4 0 0.4 Total number of draws Rank (all chains)

SUCD2\_u6m - Fitted - Thinning factor 1 dnantiles Method 1.2 0.58 • bulk Relative ESS 9.0 6.1 9.0 6.1 tail Trace Plot 0.50 62.0 Rank Plot ون 8.0 ور 6.0 ESS Relative - 2.0 0.55 0.2 0.54 0.0 1000 2000 500 4000 0.6 8.0 1.0 2000 4000 0 8.0 0.2 0 0.6 0.0 0.2 Rank (all chains) Quantile Quantile Total number of draws SUCD2\_u6m - Fitted - Thinning factor 10 dnantiles 1.0 Method 0.60 1.2 • bulk 0.59 **→** tail Trace Plot 0.59 Rank Plot ව් 0.8 6.0 ESS Relative 7.0 elative 5.0 0.56 0.2 0.0 0.0 1000 500 2000 4000 0.2 8.0 1.0 8.0 1.0 2000 4000 0.6 0.2 0.6 0 0.0 0.4 0 Rank (all chains) Quantile Quantile Total number of draws SUCD2\_u6m - Fitted - Thinning factor 100 r small intervals 0.1 1.0 8.0 0.62 dnantiles 1.0 Method 1.2 • bulk **→** tail Trace Plot 85.0 86.0 Rank Plot ESS for 9.0 8.0 Relative 2.0 4 0.56 0.0 0.0 0.0 500 1000 2000 8.0 4000 0.2 2000 4000 8.0 0.6 0.4 1.0 0 0 0.0 0.2 0.6 1.0 Rank (all chains) Quantile Quantile Total number of draws SUCD2 u6m - Fitted - Thinning factor 1000 r small intervals 0.0 1.0 8.0 8.0 dnantiles 1.0 بالريبا لنورك المريبا الباليات ويستام الأر 0.58 1.2 Relative ESS 9.0 9.0 9.1 190.57 190.56 10.56 10.55 Rank Plot Relative ESS for s 0 0 0 0 0 00 0 0 0 Method bulk 0.2 0.54 0.0 + 0.0 0.0 1000 2000 2000 4000 0.4 0.6 Quantile 0.4 0.6 Quantile 500 0.2 8.0 1.0 0.2 8.0 1.0 0.4 0.4 4000 0 0.0 Rank (all chains) Total number of draws

SUCD2\_u6m - Fitted - Thinning factor 1 small intervals 0.1 8.0 8.0 0.585 duantiles 1.0 Method 1.2 • bulk 0.580 Relative ESS 0.0 0.0 0.0 0.1 0.0 0.0 0.1 tail Lace Bot 0.575 0.570 0.565 Rank Plot 8.0 ල<u>්</u> بة 0.6 أ 8.0 ESS ESS 0.4 Relative 7.0 Relative I 0.560 0.2 0.555 0.0 1000 500 2000 4000 0.2 8.0 4000 2000 8.0 1.0 0.6 1.0 0.0 0.2 0.0 Rank (all chains) Quantile Quantile Total number of draws SUCD2\_u6m - Fitted - Thinning factor 10 small intervals 1.0 8.0 dnantiles 1.2 Method 1.2 • bulk 0.58 Relative ESS 9.0 8.0 9.1 **→** tail Trace Plot 25.0 Rank Plot 8.0 ල් رة 0.6 8.0 ESS ESS 0. 8elative 2.0 ative 0.56 Relative 7.0 0.0 2.0 0.0 0.2 0.0 1000 500 2000 4000 0.6 8.0 0.6 2000 4000 0.2 1.0 0.2 1.0 0.0 0.0 8.0 0 0.4 0.4 0 Quantile Quantile Rank (all chains) Total number of draws SUCD2\_u6m - Fitted - Thinning factor 100 small intervals 0.1 8.0 8.0 0.60 dnantiles 1.0 Method 1.2 • bulk Relative ESS 9.0 0.0 9.0 0.1 Trace Plot 95.0 • tail Rank Plot ۇ 8.0 ئو ر و 0.6 ا 6.0 ESS Relative ESS 1 0.4 0.54 0.2 500 1000 2000 8.0 0.2 0.6 4000 4000 0.0 8.0 1.0 2000 0 0.0 1.0 Rank (all chains) Quantile Quantile Total number of draws SUCD2 u6m - Fitted - Thinning factor 1000 small intervals 0.0 0.0 8.0 0.66 dnantiles 1.0 1.2 0.64 Relative ESS 0.0 0.0 0.0 0.1 0.0 0.0 0.1 Tace Plot 0.60 0.58 Rank Plot for fo 0.6 6.0 ESS Relative ESS 1 Relative F Method bulk 0.56 0.2 0.0 + 0.0 0.54 0.0 500 1000 2000 0.2 0.4 0.6 Quantile 2000 1.0 0.2 8.0 1.0 4000 8.0 0.4 0.6 4000 0.4 Rank (all chains) Quantile Total number of draws

SUCD2\_u6m - Fitted - Thinning factor 1 small intervals 0.1 8.0 8.0 duantiles 1.0 Method 0.45 1.2 • bulk Relative ESS 0.0 0.0 0.0 0.1 0.0 0.0 0.1 tail Trace Plot 28:0 Rank Plot <u>ම</u> 0.8 رة 0.6 8.0 ESS SS3 0.4 Relative 5.0 8 0.30 Relative I 0.2 0.25 0.0 1000 500 2000 4000 2000 4000 8.0 0.8 1.0 0.2 0.0 0.0 Quantile Rank (all chains) Quantile Total number of draws SUCD2\_u6m - Fitted - Thinning factor 10 small intervals 0.1 8.0 8.0 dnantiles 1.2 Method 1.2 0.525 • bulk Relative ESS 9.0 8.0 9.1 • tail O.500 0.475 0.450 Rank Plot 8.0 ල් ر أو 0.6 8.0 ESS SS3 0.4 Relative 0.4 Relative E 0.425 0.2 0.400 0.0 0.0 1000 500 2000 4000 0.2 0.6 8.0 2000 4000 0.2 0.6 0 0.0 1.0 0.0 8.0 1.0 0.4 Quantile Quantile Rank (all chains) Total number of draws SUCD2\_u6m - Fitted - Thinning factor 100 small intervals 0.1 8.0 8.0 dnantiles 1.0 Method 0.46 1.2 • bulk 0.45 Relative ESS 9.0 0.0 7.0 0.0 0.1 • tail Tace Plot 64.0 Plot 64.0 Rank Plot ۇ 8.0 ئو رة 9.0 أ 6.0 ESS Relative ESS 1 0 0 0 0 0 0 0 0 0.42 0.2 0.2 0.41 0.0 500 1000 2000 2000 4000 0.0 4000 0.0 8.0 1.0 0.2 0.6 0.2 8.0 1.0 0.6 Rank (all chains) Quantile Quantile Total number of draws SUCD2 u6m - Fitted - Thinning factor 1000 small intervals 0.1 8.0 8.0 duantiles 1.0 Method 0.46 1.2 bulk Relative ESS 0.0 0.0 8.0 0.0 0.45 Rank Plot ESS for 9.0 9.0 8.0 for 0.6 Relative ESS f Relative 0.42 0.2 0.2 0.0 + 0.0 0.41 0.0 0.4 0.6 Quantile 2000 500 1000 2000 1.0 4000 0.2 8.0 1.0 0.2 0.6 8.0 4000 0.4 0 0.4 Rank (all chains) Quantile Total number of draws