# 2020-03-26 session 1 δ=.2

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| NTD server |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session1\_50sims/run\_session1s\_.5true.jl  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.2,2.7272727272727275  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 50 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,1000.0,100,true  237.378762 seconds (2.50 G allocations: 149.374 GiB, 6.49% gc time)  Session 51 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,10000.0,100,true  751.143334 seconds (13.77 G allocations: 557.195 GiB, 11.98% gc time)  Session 52 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,50000.0,100,true  11051.813867 seconds (230.67 G allocations: 7.775 TiB, 15.23% gc time)  Session 53 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,100000.0,100,true  42736.797673 seconds (929.70 G allocations: 30.837 TiB, 15.13% gc time) |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session1\_50sims/run\_session1s\_.5false.jl  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.2,2.7272727272727275  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 55 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,1000.0,100,true  271.594104 seconds (2.53 G allocations: 150.484 GiB, 6.73% gc time)  Session 56 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,10000.0,100,true  802.035890 seconds (13.47 G allocations: 546.516 GiB, 12.29% gc time)  Session 57 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,50000.0,100,true  10490.710115 seconds (233.79 G allocations: 7.879 TiB, 15.93% gc time)  Session 58 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,100000.0,100,true  40987.445024 seconds (924.50 G allocations: 30.662 TiB, 15.91% gc time) |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session1\_50sims/run\_session1s\_.9true.jl  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.2,2.7272727272727275  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 90 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,1000.0,100,true  258.278434 seconds (2.56 G allocations: 151.737 GiB, 6.79% gc time)  Session 91 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,10000.0,100,true  758.165787 seconds (12.01 G allocations: 497.938 GiB, 11.89% gc time)  Session 92 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,50000.0,100,true  8856.568271 seconds (192.54 G allocations: 6.529 TiB, 15.88% gc time)  Session 93 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,100000.0,100,true  33846.277386 seconds (753.77 G allocations: 25.077 TiB, 15.99% gc time) |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session1\_50sims/run\_session1s\_.9false.jl  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.2,2.7272727272727275  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 95 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,1000.0,100,true  260.846201 seconds (2.51 G allocations: 149.172 GiB, 5.95% gc time)  Session 96 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,10000.0,100,true  773.781658 seconds (12.29 G allocations: 507.441 GiB, 11.43% gc time)  Session 97 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,50000.0,100,true  9444.928768 seconds (188.55 G allocations: 6.397 TiB, 15.29% gc time)  Session 98 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,100000.0,100,true  36975.012016 seconds (773.71 G allocations: 25.734 TiB, 15.49% gc time) |
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| **Local 100 sims** |
| julia> include("./contacts\\results\_session1\_100sims\\run\_session1s\_.5true.jl")  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.2,2.7272727272727275  Session 50 Running 100 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,1000.0,100,true  761.056209 seconds (4.99 G allocations: 298.186 GiB, 84.41% gc time)  Session 51 Running 100 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,10000.0,100,true  1288.892919 seconds (27.33 G allocations: 1.081 TiB, 53.04% gc time)  Session 52 Running 100 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,50000.0,100,true  6198.446900 seconds (479.73 G allocations: 16.160 TiB, 40.02% gc time)  Session 53 Running 100 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,100000.0,100,true  20485.399893 seconds (1.90 T allocations: 62.861 TiB, 41.49% gc time) |
| julia> include("./contacts\\results\_session1\_100sims\\run\_session1s\_.5false.jl")  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.2,2.7272727272727275  Session 55 Running 100 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,1000.0,100,true  1927.880223 seconds (5.00 G allocations: 297.925 GiB, 91.99% gc time)  Session 56 Running 100 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,10000.0,100,true  542.548227 seconds (26.93 G allocations: 1.067 TiB, 45.61% gc time)  Session 57 Running 100 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,50000.0,100,true  5789.771061 seconds (456.26 G allocations: 15.380 TiB, 41.02% gc time)  Session 58 Running 100 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,100000.0,100,true  29053.154612 seconds (1.89 T allocations: 62.552 TiB, 40.06% gc time) |
| julia> include("./contacts\\results\_session1\_100sims\_v2\\run\_session1s\_.9true.jl")  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.2,2.7272727272727275  Session 90 Running 100 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,1000.0,100,true  1429.938487 seconds (4.94 G allocations: 296.020 GiB, 90.26% gc time)  Session 91 Running 100 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,10000.0,100,true  2011.850465 seconds (23.72 G allocations: 984.981 GiB, 68.61% gc time)  Session 92 Running 100 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,50000.0,100,true  6699.668292 seconds (383.56 G allocations: 13.006 TiB, 37.15% gc time)  Session 93 Running 100 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,100000.0,100,true  24027.438214 seconds (1.50 T allocations: 49.850 TiB, 41.57% gc time) |
| julia> include("./contacts\\results\_session1\_100sims\_v2\\run\_session1s\_.9false.jl")  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.2,2.7272727272727275  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts C:\Users\rabia\Documents\GitHub\KenyaCoV\src\kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts C:\Users\rabia\Documents\GitHub\KenyaCoV\src\kenya\_data.jl:28  Session 95 Running 100 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,1000.0,100,true  398.900967 seconds (5.06 G allocations: 301.000 GiB, 63.38% gc time)  Session 96 Running 100 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,10000.0,100,true  1658.197563 seconds (23.66 G allocations: 981.808 GiB, 60.12% gc time)  Session 97 Running 100 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,50000.0,100,true  8066.527918 seconds (391.08 G allocations: 13.258 TiB, 33.25% gc time)  Session 98 Running 100 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,100000.0,100,true  24817.591001 seconds (1.55 T allocations: 51.626 TiB, 40.50% gc time) |
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# 2020-03-26 session 2 δ=.4

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| **Local 10** |
| julia> include("./contacts\\results\_session2\_10sims\\run\_session2s\_0.jl")  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.5,1.8461538461538463  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts C:\Users\rabia\Documents\GitHub\KenyaCoV\src\kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts C:\Users\rabia\Documents\GitHub\KenyaCoV\src\kenya\_data.jl:28  Session 1 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.0,true,0.0,100,true  78.641764 seconds (411.24 M allocations: 26.688 GiB, 77.62% gc time)  julia> include("./contacts\\results\_session2\_10sims\\run\_session2s\_.5true.jl")  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.5,1.8461538461538463  Session 50 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,1000.0,100,true  81.493964 seconds (507.26 M allocations: 30.126 GiB, 83.44% gc time)  Session 51 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,10000.0,100,true  67.863762 seconds (2.25 G allocations: 94.035 GiB, 48.63% gc time)  Session 52 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,50000.0,100,true  672.623966 seconds (38.82 G allocations: 1.315 TiB, 31.19% gc time)  Session 53 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,100000.0,100,true  2904.119147 seconds (157.21 G allocations: 5.227 TiB, 30.82% gc time) |
| julia> include("./contacts\\results\_session2\_10sims\\run\_session2s\_.5false.jl")  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.5,1.8461538461538463  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts C:\Users\rabia\Documents\GitHub\KenyaCoV\src\kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts C:\Users\rabia\Documents\GitHub\KenyaCoV\src\kenya\_data.jl:28  Session 55 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,1000.0,100,true  58.928028 seconds (536.71 M allocations: 31.455 GiB, 58.55% gc time)  Session 56 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,10000.0,100,true  88.924066 seconds (2.31 G allocations: 95.982 GiB, 44.00% gc time)  Session 57 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,50000.0,100,true  645.102066 seconds (35.13 G allocations: 1.193 TiB, 31.38% gc time)  Session 58 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,100000.0,100,true  2924.276375 seconds (170.35 G allocations: 5.660 TiB, 32.04% gc time) |
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| include("./contacts\\results\_session2\_10sims\\run\_session2s\_.9true.jl")  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.5,1.8461538461538463  Session 90 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,1000.0,100,true  218.519251 seconds (520.69 M allocations: 30.566 GiB, 92.60% gc time)  Session 91 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,10000.0,100,true  72.991759 seconds (1.91 G allocations: 82.329 GiB, 48.30% gc time)  Session 92 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,50000.0,100,true  539.746352 seconds (27.28 G allocations: 958.118 GiB, 34.67% gc time)  Session 93 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,100000.0,100,true  2119.899704 seconds (107.20 G allocations: 3.585 TiB, 35.96% gc time) |
| include("./contacts\\results\_session2\_10sims\\run\_session2s\_.9false.jl")  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.5,1.8461538461538463  Session 95 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,1000.0,100,true  229.858742 seconds (536.54 M allocations: 31.159 GiB, 91.92% gc time)  Session 96 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,10000.0,100,true  94.831805 seconds (2.27 G allocations: 95.224 GiB, 49.53% gc time)  Session 97 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,50000.0,100,true  567.587805 seconds (25.52 G allocations: 896.393 GiB, 33.23% gc time)  Session 98 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,100000.0,100,true  2223.381658 seconds (110.77 G allocations: 3.703 TiB, 35.14% gc time) |
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| **Ntd 50** |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session2\_50sims/run\_session2s\_0.jl  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.5,1.8461538461538463  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 1 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.0,true,0.0,100,true  204.477309 seconds (1.96 G allocations: 128.768 GiB, 6.30% gc time) |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session2\_50sims/run\_session2s\_.5true.jl  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.5,1.8461538461538463  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 50 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,1000.0,100,true  249.757762 seconds (2.55 G allocations: 150.749 GiB, 6.48% gc time)  Session 51 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,10000.0,100,true  764.149289 seconds (12.72 G allocations: 522.372 GiB, 11.67% gc time)  Session 52 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,50000.0,100,true  8185.845906 seconds (185.43 G allocations: 6.290 TiB, 14.83% gc time)  Session 53 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,100000.0,100,true  36331.553234 seconds (828.76 G allocations: 27.545 TiB, 15.05% gc time) |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session2\_50sims/run\_session2s\_.5false.jl  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.5,1.8461538461538463  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 55 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,1000.0,100,true  273.702763 seconds (2.53 G allocations: 150.378 GiB, 6.43% gc time)  Session 56 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,10000.0,100,true  787.232179 seconds (12.53 G allocations: 515.299 GiB, 11.67% gc time)  Session 57 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,50000.0,100,true  8835.913412 seconds (196.09 G allocations: 6.643 TiB, 15.37% gc time)  Session 58 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,100000.0,100,true  34581.606229 seconds (785.91 G allocations: 26.128 TiB, 15.60% gc time) |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session2\_50sims/run\_session2s\_.9true.jl  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.5,1.8461538461538463  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 90 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,1000.0,100,true  275.628773 seconds (2.70 G allocations: 156.252 GiB, 6.91% gc time)  Session 91 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,10000.0,100,true  801.391076 seconds (10.48 G allocations: 444.383 GiB, 10.48% gc time)  Session 92 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,50000.0,100,true  7080.316367 seconds (135.84 G allocations: 4.658 TiB, 14.42% gc time)  Session 93 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,100000.0,100,true  25603.832959 seconds (524.77 G allocations: 17.552 TiB, 15.58% gc time) |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session2\_50sims/run\_session2s\_.9false.jl  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.5,1.8461538461538463  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 95 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,1000.0,100,true  279.176731 seconds (2.64 G allocations: 154.347 GiB, 5.99% gc time)  Session 96 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,10000.0,100,true  837.126411 seconds (10.97 G allocations: 461.931 GiB, 9.91% gc time)  Session 97 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,50000.0,100,true  7430.528722 seconds (145.57 G allocations: 4.984 TiB, 14.08% gc time)  Session 98 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,100000.0,100,true  25785.906655 seconds (519.69 G allocations: 17.384 TiB, 15.13% gc time) |
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| **Local 100** |
| julia> include("./contacts\\results\_session2\_100sims\\run\_session1s\_0.jl")  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.5,1.8461538461538463  Session 1 Running 100 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.0,true,0.0,100,true  5586.038997 seconds (3.86 G allocations: 254.936 GiB, 97.18% gc time) |
| julia> include("./contacts\\results\_session2\_100sims\\run\_session1s\_.5true.jl")  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.5,1.8461538461538463  Session 50 Running 100 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,1000.0,100,true  3448.869308 seconds (5.06 G allocations: 300.512 GiB, 95.00% gc time)  Session 51 Running 100 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,10000.0,100,true  619.496215 seconds (25.94 G allocations: 1.037 TiB, 50.56% gc time)  Session 52 Running 100 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,50000.0,100,true  6851.216344 seconds (402.51 G allocations: 13.631 TiB, 44.18% gc time)  Session 53 Running 100 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,100000.0,100,true  22822.707203 seconds (1.55 T allocations: 51.672 TiB, 41.38% gc time) |
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# 2020-03-26 session 3 δ=.8

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| Local |
| include("./contacts\\results\_session3\_10sims\\run\_session3s\_0.jl")  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.8,1.3953488372093026  Session 1 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.0,true,0.0,100,true  280.827667 seconds (385.52 M allocations: 25.509 GiB, 94.97% gc time) |
| julia> include("./contacts\\results\_session3\_10sims\\run\_session3s\_.5true.jl")  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.8,1.3953488372093026  Session 50 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,1000.0,100,true  358.973676 seconds (523.05 M allocations: 30.747 GiB, 94.41% gc time)  Session 51 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,10000.0,100,true  134.972046 seconds (2.58 G allocations: 106.135 GiB, 60.74% gc time)  Session 52 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,50000.0,100,true  655.632133 seconds (35.18 G allocations: 1.196 TiB, 32.98% gc time)  Session 53 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,100000.0,100,true  2311.639918 seconds (148.37 G allocations: 4.940 TiB, 33.90% gc time) |
| julia> include("./contacts\\results\_session3\_10sims\\run\_session3s\_.9true.jl")  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.8,1.3953488372093026  Session 90 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,1000.0,100,true  140.056000 seconds (576.11 M allocations: 32.252 GiB, 88.45% gc time)  Session 91 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,10000.0,100,true  119.150399 seconds (2.80 G allocations: 112.694 GiB, 43.60% gc time)  Session 92 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,50000.0,100,true  510.319466 seconds (23.39 G allocations: 818.117 GiB, 37.91% gc time)  Session 93 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,100000.0,100,true  1849.446126 seconds (83.91 G allocations: 2.793 TiB, 46.31% gc time) |
| julia> include("./contacts\\results\_session3\_10sims\\run\_session3s\_.9false.jl")  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.8,1.3953488372093026  Session 95 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,1000.0,100,true  145.060319 seconds (553.36 M allocations: 31.563 GiB, 87.38% gc time)  Session 96 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,10000.0,100,true  128.834317 seconds (2.05 G allocations: 86.333 GiB, 63.79% gc time)  Session 97 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,50000.0,100,true  566.564549 seconds (26.66 G allocations: 928.369 GiB, 44.73% gc time)  Session 98 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,100000.0,100,true  1823.175301 seconds (87.70 G allocations: 2.918 TiB, 44.59% gc time) |
| julia> include("./contacts\\results\_session3\_10sims\\run\_session3s\_.5false\_58.jl")  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.8,1.3953488372093026  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts C:\Users\rabia\Documents\GitHub\KenyaCoV\src\kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts C:\Users\rabia\Documents\GitHub\KenyaCoV\src\kenya\_data.jl:28  Session 58 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,100000.0,100,true  2044.419672 seconds (143.01 G allocations: 4.763 TiB, 35.57% gc time) |
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| Ntd |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session3\_50sims/run\_session3s\_0.jl  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.8,1.3953488372093026  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 1 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.0,true,0.0,100,true  205.594469 seconds (1.96 G allocations: 128.758 GiB, 5.91% gc time) |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session3\_50sims/run\_session3s\_.5true.jl  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.8,1.3953488372093026  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 50 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,1000.0,100,true  261.596939 seconds (2.61 G allocations: 153.181 GiB, 7.02% gc time)  Session 51 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,10000.0,100,true  780.245193 seconds (12.43 G allocations: 512.146 GiB, 11.75% gc time)  Session 52 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,50000.0,100,true  8070.720805 seconds (176.93 G allocations: 6.015 TiB, 15.21% gc time)  Session 53 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,100000.0,100,true  31173.671550 seconds (712.28 G allocations: 23.718 TiB, 15.59% gc time) |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session3\_50sims/run\_session3s\_.5false.jl  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.8,1.3953488372093026  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 55 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,1000.0,100,true  270.784778 seconds (2.62 G allocations: 153.281 GiB, 6.17% gc time)  Session 56 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,10000.0,100,true  742.980377 seconds (11.47 G allocations: 478.528 GiB, 11.13% gc time)  Session 57 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,50000.0,100,true  8163.746783 seconds (181.68 G allocations: 6.170 TiB, 14.82% gc time)  Session 58 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,100000.0,100,true  31779.205320 seconds (737.74 G allocations: 24.557 TiB, 15.13% gc time)  -sh-4.2$ |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session3\_50sims/run\_session3s\_.9false.jl  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.8,1.3953488372093026  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 95 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,1000.0,100,true  283.862332 seconds (2.75 G allocations: 156.746 GiB, 6.13% gc time)  Session 96 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,10000.0,100,true  980.957557 seconds (11.12 G allocations: 461.397 GiB, 8.91% gc time)  Session 97 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,50000.0,100,true  7325.021772 seconds (114.62 G allocations: 3.909 TiB, 12.36% gc time)  Session 98 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,100000.0,100,true  22066.381516 seconds (367.78 G allocations: 12.253 TiB, 16.55% gc time)  -sh-4.2$ |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session3\_50sims/run\_session3s\_.9true.jl  R₀,ϵ,σ,γ,δ,β=3,0.3,0.2,0.4,0.8,1.3953488372093026  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 90 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,1000.0,100,true  298.279437 seconds (2.90 G allocations: 161.940 GiB, 7.32% gc time)  Session 91 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,10000.0,100,true  1006.847822 seconds (11.33 G allocations: 468.472 GiB, 9.47% gc time)  Session 92 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,50000.0,100,true  6663.578094 seconds (103.61 G allocations: 3.542 TiB, 12.63% gc time)  Session 93 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,100000.0,100,true  25789.686090 seconds (426.44 G allocations: 14.201 TiB, 17.20% gc time)  -sh-4.2$ |
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# 2020-03-28 session 4 R0=2.5 δ=.2

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| **Local 10 sims** |
| julia> include("./contacts\\results\_session4\_10sims\\run\_session4s\_0.jl")  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.2,2.272727272727273  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts C:\Users\rabia\Documents\GitHub\KenyaCoV\src\kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts C:\Users\rabia\Documents\GitHub\KenyaCoV\src\kenya\_data.jl:28  Session 1 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.0,true,0.0,100,true  80.217162 seconds (410.80 M allocations: 26.684 GiB, 77.71% gc time) |
| julia> include("./contacts\\results\_session4\_10sims\\run\_session4s\_.5true.jl")  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.2,2.272727272727273  Session 50 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,1000.0,100,true  103.402174 seconds (501.03 M allocations: 29.737 GiB, 85.53% gc time)  Session 51 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,10000.0,100,true  83.660140 seconds (2.16 G allocations: 91.109 GiB, 53.32% gc time)  Session 52 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,50000.0,100,true  651.305764 seconds (35.89 G allocations: 1.221 TiB, 34.51% gc time)  Session 53 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,100000.0,100,true  2484.355714 seconds (142.79 G allocations: 4.757 TiB, 34.22% gc time) |
| julia> include("./contacts\\results\_session4\_10sims\\run\_session4s\_.5false.jl")  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.2,2.272727272727273  Session 55 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,1000.0,100,true  289.385416 seconds (521.66 M allocations: 30.313 GiB, 93.83% gc time)  Session 56 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,10000.0,100,true  146.129065 seconds (2.02 G allocations: 85.981 GiB, 68.85% gc time)  Session 57 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,50000.0,100,true  676.321230 seconds (36.52 G allocations: 1.242 TiB, 33.26% gc time)  Session 58 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,100000.0,100,true  2379.369923 seconds (120.97 G allocations: 4.033 TiB, 33.49% gc time) |
| julia> include("./contacts\\results\_session4\_10sims\\run\_session4s\_.9true.jl")  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.2,2.272727272727273  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts C:\Users\rabia\Documents\GitHub\KenyaCoV\src\kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts C:\Users\rabia\Documents\GitHub\KenyaCoV\src\kenya\_data.jl:28  Session 90 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,1000.0,100,true  78.824361 seconds (555.73 M allocations: 31.999 GiB, 71.67% gc time)  Session 91 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,10000.0,100,true  92.778341 seconds (1.98 G allocations: 84.821 GiB, 51.57% gc time)  Session 92 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,50000.0,100,true  495.951731 seconds (23.78 G allocations: 835.852 GiB, 33.96% gc time)  Session 93 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,100000.0,100,true  2065.649583 seconds (99.25 G allocations: 3.320 TiB, 32.98% gc time) |
| julia> include("./contacts\\results\_session4\_10sims\\run\_session4s\_.9false.jl")  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.2,2.272727272727273  Session 95 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,1000.0,100,true  132.336233 seconds (537.27 M allocations: 31.123 GiB, 86.21% gc time)  Session 96 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,10000.0,100,true  197.742511 seconds (2.41 G allocations: 100.281 GiB, 74.99% gc time)  Session 97 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,50000.0,100,true  599.306822 seconds (29.83 G allocations: 1.021 TiB, 32.80% gc time)  Session 98 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,100000.0,100,true  2394.807213 seconds (110.84 G allocations: 3.706 TiB, 36.89% gc time) |
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| **Ntd 50** |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session4\_50sims/run\_session4s\_0.jl  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.2,2.272727272727273  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 1 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.0,true,0.0,100,true  212.529721 seconds (1.96 G allocations: 128.750 GiB, 5.88% gc time) |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session4\_50sims/run\_session4s\_.5true.jl  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.2,2.272727272727273  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 50 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,1000.0,100,true  267.546255 seconds (2.59 G allocations: 152.201 GiB, 6.16% gc time)  Session 51 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,10000.0,100,true  784.831183 seconds (11.47 G allocations: 479.270 GiB, 10.81% gc time)  Session 52 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,50000.0,100,true  7935.732478 seconds (170.46 G allocations: 5.803 TiB, 14.52% gc time)  Session 53 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,100000.0,100,true  30545.822778 seconds (686.44 G allocations: 22.872 TiB, 14.93% gc time) |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session4\_50sims/run\_session4s\_.5false.jl  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.2,2.272727272727273  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 55 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,1000.0,100,true  287.953819 seconds (2.61 G allocations: 152.805 GiB, 7.15% gc time)  Session 56 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,10000.0,100,true  798.916067 seconds (11.79 G allocations: 491.021 GiB, 12.06% gc time)  Session 57 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,50000.0,100,true  7826.182554 seconds (173.00 G allocations: 5.890 TiB, 15.34% gc time)  Session 58 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,100000.0,100,true  29315.949456 seconds (670.02 G allocations: 22.333 TiB, 15.76% gc time)  -sh-4.2$ |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session4\_50sims/run\_session4s\_.9true.jl  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.2,2.272727272727273  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 90 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,1000.0,100,true  276.503033 seconds (2.67 G allocations: 154.751 GiB, 6.89% gc time)  Session 91 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,10000.0,100,true  774.309824 seconds (10.45 G allocations: 443.305 GiB, 10.70% gc time)  Session 92 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,50000.0,100,true  7269.480161 seconds (148.37 G allocations: 5.079 TiB, 14.63% gc time)  Session 93 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,100000.0,100,true  25742.019089 seconds (556.49 G allocations: 18.601 TiB, 15.49% gc time)  -sh-4.2$ |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session4\_50sims/run\_session4s\_.9false.jl  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.2,2.272727272727273  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 95 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,1000.0,100,true  287.988751 seconds (2.71 G allocations: 156.044 GiB, 6.43% gc time)  Session 96 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,10000.0,100,true  805.878753 seconds (10.32 G allocations: 438.779 GiB, 9.75% gc time)  Session 97 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,50000.0,100,true  7391.845837 seconds (145.07 G allocations: 4.969 TiB, 13.85% gc time)  Session 98 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,100000.0,100,true  27032.850895 seconds (562.65 G allocations: 18.808 TiB, 14.96% gc time)  -sh-4.2$ |

# 2020-03-29 session 5 R0=2.5 δ=.5

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| **Local 10 sims** |
| julia> include("./contacts\\results\_session5\_10sims\\run\_session5s\_0.jl")  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.5,1.5384615384615383  Session 1 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.0,true,0.0,100,true  296.425511 seconds (386.63 M allocations: 25.525 GiB, 94.20% gc time) |
| julia> include("./contacts\\results\_session5\_10sims\\run\_session5s\_.5true.jl")  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.5,1.5384615384615383  Session 50 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,1000.0,100,true  134.657834 seconds (530.69 M allocations: 30.638 GiB, 85.45% gc time)  Session 51 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,10000.0,100,true  136.356053 seconds (2.31 G allocations: 96.472 GiB, 65.51% gc time)  Session 52 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,50000.0,100,true  608.576177 seconds (32.85 G allocations: 1.121 TiB, 34.88% gc time)  Session 53 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,100000.0,100,true  2034.093620 seconds (110.42 G allocations: 3.692 TiB, 34.25% gc time) |
| julia> include("./contacts\\results\_session5\_10sims\\run\_session5s\_.5false.jl")  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.5,1.5384615384615383  Session 55 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,1000.0,100,true  391.486476 seconds (520.44 M allocations: 30.404 GiB, 94.73% gc time)  Session 56 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,10000.0,100,true  155.790686 seconds (1.67 G allocations: 73.449 GiB, 74.15% gc time)  Session 57 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,50000.0,100,true  540.836214 seconds (26.79 G allocations: 939.937 GiB, 34.37% gc time)  Session 58 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,100000.0,100,true  2209.153247 seconds (124.91 G allocations: 4.171 TiB, 36.33% gc time) |
| julia> include("./contacts\\results\_session5\_10sims\\run\_session5s\_.9true.jl")  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.5,1.5384615384615383  Session 90 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,1000.0,100,true  88.762936 seconds (617.35 M allocations: 33.507 GiB, 80.44% gc time)  Session 91 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,10000.0,100,true  131.374014 seconds (2.42 G allocations: 97.241 GiB, 50.36% gc time)  Session 92 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,50000.0,100,true  567.028907 seconds (18.05 G allocations: 623.244 GiB, 38.44% gc time)  Session 93 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,100000.0,100,true  2813.530598 seconds (80.43 G allocations: 2.647 TiB, 47.20% gc time) |
| julia> include("./contacts\\results\_session5\_10sims\\run\_session5s\_.9false.jl")  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.5,1.5384615384615383  Session 95 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,1000.0,100,true  144.067581 seconds (583.73 M allocations: 32.418 GiB, 84.62% gc time)  Session 96 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,10000.0,100,true  130.807855 seconds (2.35 G allocations: 94.688 GiB, 49.87% gc time)  Session 97 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,50000.0,100,true  729.548418 seconds (23.32 G allocations: 802.938 GiB, 35.85% gc time)  Session 98 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,100000.0,100,true  2582.647240 seconds (64.77 G allocations: 2.134 TiB, 40.95% gc time) |
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| **NTD 50 sims** |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session5\_50sims/run\_session5s\_0.jl  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.5,1.5384615384615383  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 1 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.0,true,0.0,100,true  217.645243 seconds (1.96 G allocations: 128.717 GiB, 6.15% gc time)  -sh-4.2$ |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session5\_50sims/run\_session5s\_.5true.jl  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.5,1.5384615384615383  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 50 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,1000.0,100,true  290.325308 seconds (2.69 G allocations: 155.398 GiB, 7.29% gc time)  Session 51 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,10000.0,100,true  894.953262 seconds (11.34 G allocations: 474.189 GiB, 10.91% gc time)  Session 52 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,50000.0,100,true  7368.682362 seconds (141.67 G allocations: 4.850 TiB, 14.98% gc time)  Session 53 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,100000.0,100,true  26349.288574 seconds (549.09 G allocations: 18.347 TiB, 15.61% gc time)  -sh-4.2$ |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session5\_50sims/run\_session5s\_.5false.jl  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.5,1.5384615384615383  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 55 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,1000.0,100,true  303.169731 seconds (2.66 G allocations: 154.139 GiB, 6.58% gc time)  Session 56 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,10000.0,100,true  859.739144 seconds (10.65 G allocations: 449.571 GiB, 10.38% gc time)  Session 57 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,50000.0,100,true  7573.524406 seconds (143.30 G allocations: 4.907 TiB, 14.44% gc time)  Session 58 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,100000.0,100,true  26556.942412 seconds (545.92 G allocations: 18.246 TiB, 14.96% gc time)  -sh-4.2$ |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session5\_50sims/run\_session5s\_.9true.jl  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.5,1.5384615384615383  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 90 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,1000.0,100,true  305.233984 seconds (3.02 G allocations: 165.104 GiB, 6.51% gc time)  Session 91 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,10000.0,100,true  1169.957545 seconds (11.29 G allocations: 457.346 GiB, 8.43% gc time)  Session 92 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,50000.0,100,true  9165.996292 seconds (117.84 G allocations: 3.958 TiB, 11.29% gc time)  Session 93 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,100000.0,100,true  30983.233497 seconds (418.26 G allocations: 13.763 TiB, 18.76% gc time)  -sh-4.2$ |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session5\_50sims/run\_session5s\_.9false.jl  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.5,1.5384615384615383  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 95 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,1000.0,100,true  317.374864 seconds (3.01 G allocations: 165.917 GiB, 6.28% gc time)  Session 96 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,10000.0,100,true  1251.667358 seconds (11.97 G allocations: 482.550 GiB, 8.69% gc time)  Session 97 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,50000.0,100,true  9757.742041 seconds (125.44 G allocations: 4.207 TiB, 11.37% gc time)  Session 98 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,100000.0,100,true  28346.330751 seconds (385.86 G allocations: 12.699 TiB, 18.81% gc time)  -sh-4.2$ |
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# 2020-03-29 session 6 R0=2.5 δ=.8

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| **Local 10 sims** |
| julia> include("./contacts\\results\_session6\_10sims\\run\_session6s\_0.jl")  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.8,1.1627906976744187  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts C:\Users\rabia\Documents\GitHub\KenyaCoV\src\kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts C:\Users\rabia\Documents\GitHub\KenyaCoV\src\kenya\_data.jl:28  Session 1 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.0,true,0.0,100,true  88.731825 seconds (410.47 M allocations: 26.677 GiB, 78.12% gc time)  julia> |
| julia> include("./contacts\\results\_session6\_10sims\\run\_session6s\_.5true.jl")  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.8,1.1627906976744187  Session 50 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,1000.0,100,true  83.969719 seconds (531.45 M allocations: 30.829 GiB, 79.61% gc time)  Session 51 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,10000.0,100,true  58.557732 seconds (1.98 G allocations: 83.815 GiB, 29.45% gc time)  Session 52 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,50000.0,100,true  541.050773 seconds (30.21 G allocations: 1.033 TiB, 37.70% gc time)  Session 53 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,100000.0,100,true  1837.877927 seconds (102.12 G allocations: 3.417 TiB, 38.49% gc time)  julia> |
| julia> include("./contacts\\results\_session6\_10sims\\run\_session6s\_.5false.jl")  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.8,1.1627906976744187  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts C:\Users\rabia\Documents\GitHub\KenyaCoV\src\kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts C:\Users\rabia\Documents\GitHub\KenyaCoV\src\kenya\_data.jl:28  Session 55 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,1000.0,100,true  61.822445 seconds (571.03 M allocations: 32.573 GiB, 57.59% gc time)  Session 56 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,10000.0,100,true  61.508187 seconds (2.04 G allocations: 86.321 GiB, 29.91% gc time)  Session 57 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,50000.0,100,true  414.579660 seconds (20.80 G allocations: 733.402 GiB, 30.94% gc time)  Session 58 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,100000.0,100,true  1599.436784 seconds (98.51 G allocations: 3.294 TiB, 37.16% gc time)  julia> |
| julia> include("./contacts\\results\_session6\_10sims\\run\_session6s\_.9true.jl")  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.8,1.1627906976744187  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts C:\Users\rabia\Documents\GitHub\KenyaCoV\src\kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts C:\Users\rabia\Documents\GitHub\KenyaCoV\src\kenya\_data.jl:28  Session 90 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,1000.0,100,true  48.934349 seconds (704.15 M allocations: 36.308 GiB, 50.44% gc time)  Session 91 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,10000.0,100,true  91.614131 seconds (2.10 G allocations: 81.477 GiB, 22.34% gc time)  Session 92 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,50000.0,100,true  243.176778 seconds (5.77 G allocations: 197.566 GiB, 18.53% gc time)  Session 93 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,100000.0,100,true  170.126312 seconds (3.04 G allocations: 109.970 GiB, 13.07% gc time)  julia> include("./contacts\\results\_session6\_10sims\\run\_session6s\_.9false.jl")  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.8,1.1627906976744187  Session 95 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,1000.0,100,true  90.169003 seconds (755.12 M allocations: 37.505 GiB, 71.81% gc time)  Session 96 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,10000.0,100,true  157.470172 seconds (3.28 G allocations: 119.720 GiB, 16.23% gc time)  Session 97 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,50000.0,100,true  247.513754 seconds (5.39 G allocations: 184.501 GiB, 30.02% gc time)  Session 98 Running 10 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,100000.0,100,true  219.395009 seconds (4.26 G allocations: 149.033 GiB, 14.28% gc time)  julia> |
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| **NTD 50 sims** |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session6\_50sims/run\_session6s\_0.jl  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.8,1.1627906976744187  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 1 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.0,true,0.0,100,true  222.296233 seconds (1.95 G allocations: 128.709 GiB, 5.88% gc time) |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session6\_50sims/run\_session6s\_.5true.jl  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.8,1.1627906976744187  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 50 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,1000.0,100,true  300.349708 seconds (2.75 G allocations: 157.319 GiB, 6.32% gc time)  Session 51 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,10000.0,100,true  808.084877 seconds (9.32 G allocations: 400.523 GiB, 9.55% gc time)  Session 52 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,50000.0,100,true  6981.774003 seconds (124.45 G allocations: 4.268 TiB, 14.16% gc time)  Session 53 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,true,100000.0,100,true  24120.144101 seconds (475.51 G allocations: 15.908 TiB, 14.87% gc time)  -sh-4.2$ |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session6\_50sims/run\_session6s\_.5false.jl  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.8,1.1627906976744187  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 55 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,1000.0,100,true  310.958136 seconds (2.80 G allocations: 158.663 GiB, 6.90% gc time)  Session 56 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,10000.0,100,true  865.733843 seconds (9.89 G allocations: 420.573 GiB, 9.47% gc time)  Session 57 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,50000.0,100,true  7758.681087 seconds (137.22 G allocations: 4.701 TiB, 13.90% gc time)  Session 58 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.5,false,100000.0,100,true  25512.037267 seconds (495.21 G allocations: 16.560 TiB, 14.87% gc time)  -sh-4.2$ |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session6\_50sims/run\_session6s\_.9true.jl  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.8,1.1627906976744187  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 90 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,1000.0,100,true  381.306855 seconds (3.60 G allocations: 182.021 GiB, 6.40% gc time)  Session 91 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,10000.0,100,true  1537.263370 seconds (12.41 G allocations: 466.707 GiB, 6.85% gc time)  Session 92 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,50000.0,100,true  2360.589476 seconds (19.14 G allocations: 675.627 GiB, 7.16% gc time)  Session 93 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,true,100000.0,100,true  3330.303899 seconds (27.30 G allocations: 935.241 GiB, 7.39% gc time)  -sh-4.2$ |
| -sh-4.2$ /opt/ohpc/pub/apps/julia/1.3.1/bin/julia /home/rabiaaziza/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/contacts/results\_session6\_50sims/run\_session6s\_.9false.jl  R₀,ϵ,σ,γ,δ,β=2.5,0.3,0.2,0.4,0.8,1.1627906976744187  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_prevdata(::String) at kenya\_data.jl:35  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:35  ┌ Warning: readtable is deprecated, use CSV.read from the CSV package instead  │ caller = get\_flightdata(::String) at kenya\_data.jl:28  └ @ KenyaCoV\_contacts ~/julia\_projects/KenyaCoV-MakingContacts\_v5\_2020-03-25/src/kenya\_data.jl:28  Session 95 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,1000.0,100,true  372.764500 seconds (3.65 G allocations: 183.278 GiB, 6.64% gc time)  Session 96 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,10000.0,100,true  1364.765713 seconds (11.61 G allocations: 440.774 GiB, 7.42% gc time)  Session 97 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,50000.0,100,true  2825.262761 seconds (23.74 G allocations: 823.185 GiB, 7.61% gc time)  Session 98 Running 50 sims for τₚ,stop\_Q,Κ\_max\_capacity12,κ\_per\_event4,IDs\_cfirst=0.9,false,100000.0,100,true  2384.144899 seconds (20.06 G allocations: 706.506 GiB, 7.56% gc time)  -sh-4.2$ |
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2020-04-01 session 10 R0=2.5 δ=.3