COVID-19 Near-Term Epidemic, Georgia Assessment, March 24, 2020 2 Month Projection, Population 10.7 million w/Age-Stratified Risk 500 Cumulative deaths Baseline,  $R_0 = 2.4$ ■ 25% Contact Reduction,  $R_0 = 1.8$ 400 40% Contact Reduction,  $R_0 = 1.44$ 300 60% Contact Reduction,  $R_0 = 0.96$ 200 100 05/03 04/13 04/03 04/23 Date 3000 ICU Capacity ICU beds needed 2500 2000 Baseline,  $R_0 = 2.4$ 25% Contact Reduction,  $R_0 = 1.8$ 1500 40% Contact Reduction,  $R_0 = 1.44$ 60% Contact Reduction,  $R_0 = 0.96$ 1000 500 04/23 05/03 05/23 Date 20,000 Baseline,  $R_0 = 2.4$ -25% Contact Reduction,  $R_0 = 1.8$ 15,000 40% Contact Reduction,  $R_0 = 1.44$ 60% Contact Reduction,  $R_0 = 0.96$ 10,000 5,000 03/24 04/23 05/23 04/03 04/13 05/03 05/13 Date

Calculation - J.S.Weitz - jsweitz@gatech.edu - 3/24/20 - Nonlinear Population Dynamics Using Age-Dependent Risk License: Creative Commons BY-SA 4.0, i.e., Share, Adapt, Attribute - https://creativecommons.org/licenses/by/4.0/ Thanks to C. Andris, K. Carden, J Dushoff, and Weitz group members, code https://github.com/jsweitz/covid-19-ga-summer-2020