



Fig. 2. Gridded population estimates from the same datasets as Fig. 1 for Kinshasa and surrounding area in the Democratic Republic of the Congo, with health areas overlaid. The extent of the area shown is highlighted in the black box in Fig. 1(a). Each dataset has been displayed using a scale of 20 quantiles within the area shown to highlight the inherent population distribution patterns. (a) Gridded Population of the World version 4 (GPWv4) (Center for International Earth Science Information Network - CIESIN - Columbia University, 2018b), (b) GHS Population grid (Florczyk et al., 2019), (c) Meta Data for Good High resolution population density maps (Meta Data for Good, 2022), (d) WorldPop global constrained top down estimates (Bondarenko et al., 2020), (e) WorldPop/GRID3 bottom up population estimates (Boo et al., 2020), (f) uncertainty of WorldPop/GRID3 bottom up population estimates, measured as the difference between the upper and lower 95 % credible intervals of the posterior prediction divided by the mean of the posterior prediction.