



**Fig. 1.** Maps for the region encompassing the five most westerly provinces of the Democratic Republic of the Congo (Kinshasa, Kongo-Central, Kwango, Kwilu, and Mai-Ndombe, as shown in (a)), showing proportions of the total population of the region estimated to be in each health zone for a set of commonly used open gridded population datasets: (b) Gridded Population of the World version 4 (GPWv4) ([Center for International Earth Science Information Network - CIESIN - Columbia University, 2018b](#)), (c) GHS Population grid ([Florczyk et al., 2019](#)), (d) Meta Data for Good High resolution population density maps ([Meta Data for Good, 2022](#)), (e) WorldPop global constrained top down estimates ([Bondarenko et al., 2020](#)), (f) WorldPop/GRID3 bottom up population estimates ([Boo et al., 2020](#)).