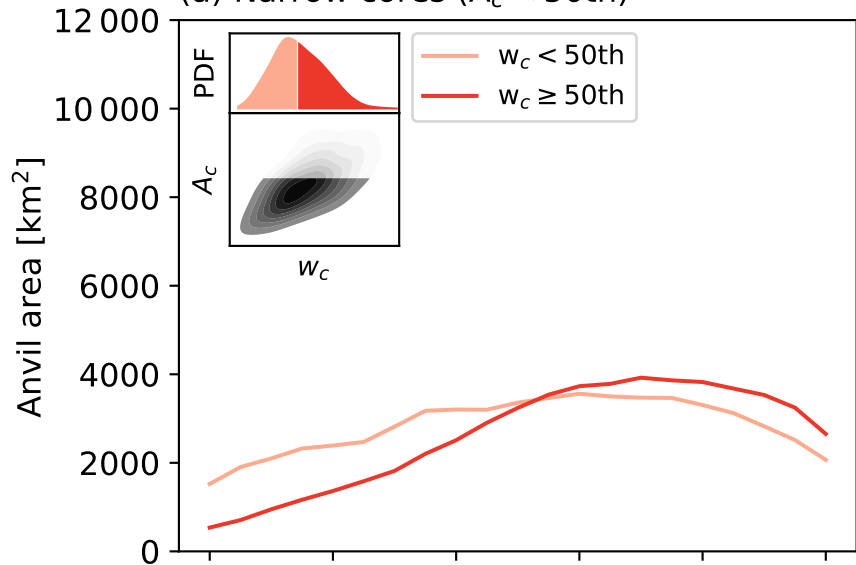
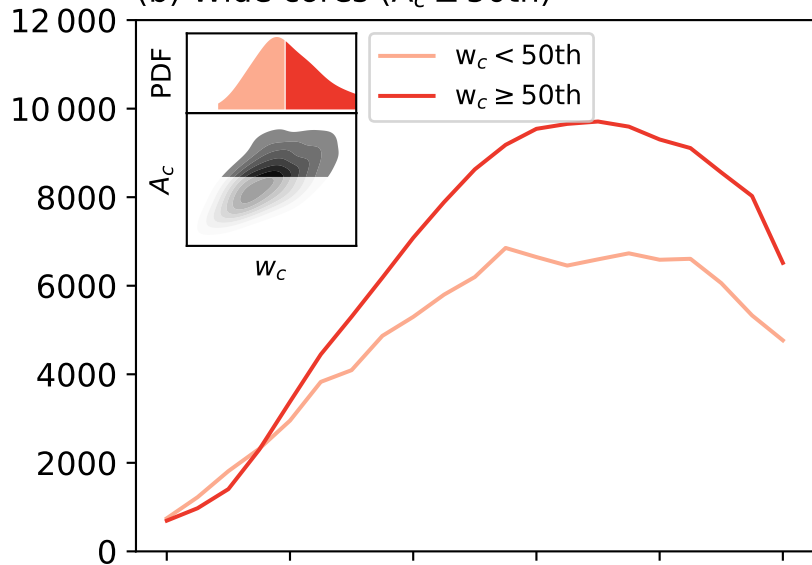
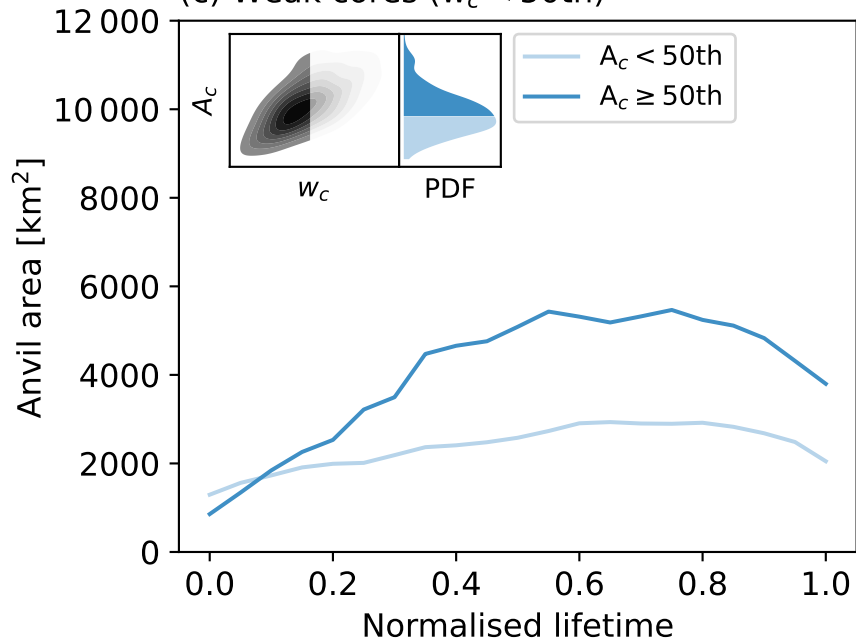


(a) Narrow cores ($A_c < 50\text{th}$)(b) Wide cores ($A_c \geq 50\text{th}$)(c) Weak cores ($w_c < 50\text{th}$)(d) Strong cores ($w_c \geq 50\text{th}$)