Carbon loss rates for planets with CH_4 -dominated atmospheres orbiting a Solar-like star at t = 100 Myr(a): X-ray model: Selsis+ 2007; Jackson 2012 1016b): EUV/X-ray model: King and Wheatley 2020 10^{10} 10^{8} 10^{8} 10^{6} 10^{6} 10^4 10^{4} $1~{
m M}_{\oplus}$ $2~{
m M}_{\oplus}$ 10^{2} 10^{2} $4~{
m M}_{\oplus}$ $6~\mathrm{M}_{\oplus}$ 10^{0} 10^{0} $8~\mathrm{M}_{\oplus}$ 10^{-2} 10^{-2} 10^{-2} 10^{-2} 10^{-1} 10^{0} 10^{0} 10^{-1} Semi-major axis (AU) Semi-major axis (AU) (c): Efficiency ϵ (d): Total loss rate 10^{10} 10^{10} 10^{8} 10^{8} 10^{6} 10^{6} 10^{4} 10^{4} 10^{2} 10^{2} 10^{0} 10^{0} 10^{-2} 10^{-2} 10^{-2} 10^{-2} 10^{-1} 10^{-1} 10^0 10^{0} Semi-major axis (AU) Semi-major axis (AU)