Whole TGAS sample, RRab + RRc (fundamentalised), M4 slope -3.0-2.5Absolute Magnitude 4.5  $\mu \mathrm{m}$ -2.0-1.5-1.0-0.50.0 0.5  $M_{[4.5]}$  = (-2.328  $\pm$  0.103) log P + (-1.109  $\pm$  0.077) 1.0 -0.6-0.5-0.4-0.3-0.2-0.1log P (days)