Whole TGAS sample, RRab + RRc (fundamentalised), M4 slope -3.0-2.5Absolute Magnitude 3.6 $\mu \mathrm{m}$ -2.0-1.5-1.0-0.50.0 0.5 $M_{[3.6]}$ = (-2.324 ± 0.104) log P + (-1.092 ± 0.077) 1.0 -0.6-0.5-0.4-0.3-0.2-0.1log P (days)