$R_p < 4R_\oplus$ HZ planet detections from TESS's primary mission (from one Monte Carlo trial) 6000 Kopparapu+ (2013) runaway greenhouse Kopparapu+ (2013) maximum greenhouse $S/S_{\oplus} = 2$ $S/S_{\oplus}=0.2\,$ 5500 5000 Host star T_{eff} [K] 4500 4000 3500 3000 2.0 1.5 1.0 0.5 0.0 Relative insolation $[S/S_{\oplus}]$