The following charts were generated by Simon Gallant ([simon.gallant@csiro.au](mailto:simon.gallant@csiro.au)) using MatPlotLib 1.3.0 in Python 2.7.5 (Anaconda distribution v1.7.0 32-bit).

The script for generating these plots is: BA-ClimateCharts.py, and is located in the same folder as this document. Please do not substantively modify this script without consulting the author. The script has been designed to accommodate changes in colours and fonts using the BA\_colors and BA\_fonts functions, should that be necessary.

The script generates six 600dpi PNG files per subregion, with the naming convention BA-[regioncode]-[subregioncode]-[chartname].png. The charts, according to their filename, are: rain (Figure 1), P-PET (Figure 2), stats (Figure 3), trend (Figure 4) and fPAR (Figure 5).

The figures were last updated on 11 November 2013 with new colours.

The captions associated with the figures presented here have been agreed by the data authors and Products Team, and should be used wherever the chart is used.

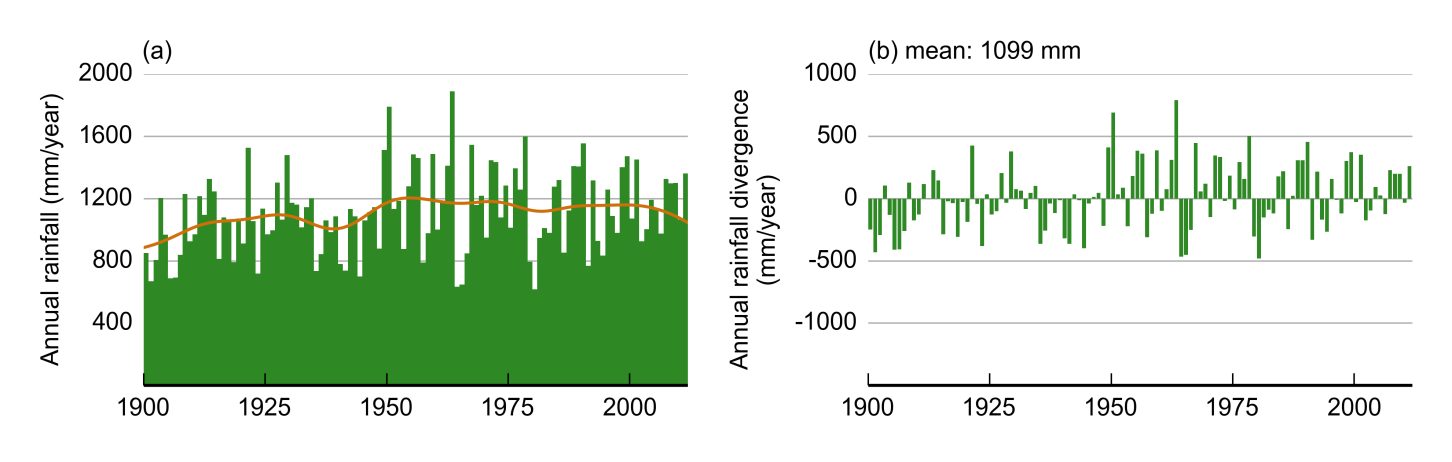


Figure 1 (a) Annual rainfall with smoothed rolling average and (b) annual rainfall divergence from the long-term mean for the Gloucester subregion

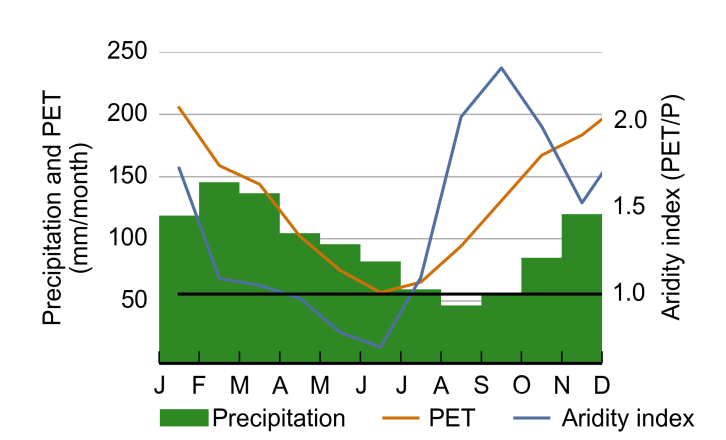


Figure 2 Average monthly precipitation, potential evapotranspiration (PET) and aridity index for the Gloucester subregion. The black line indicates an aridity index of 1, that is, where precipitation and PET are equal. Atmosphere evaporative demand is energy-limited below this line and water-limited above (assuming no soil moisture storage). Values were calculated over the years 1981 to 2012 (inclusive)

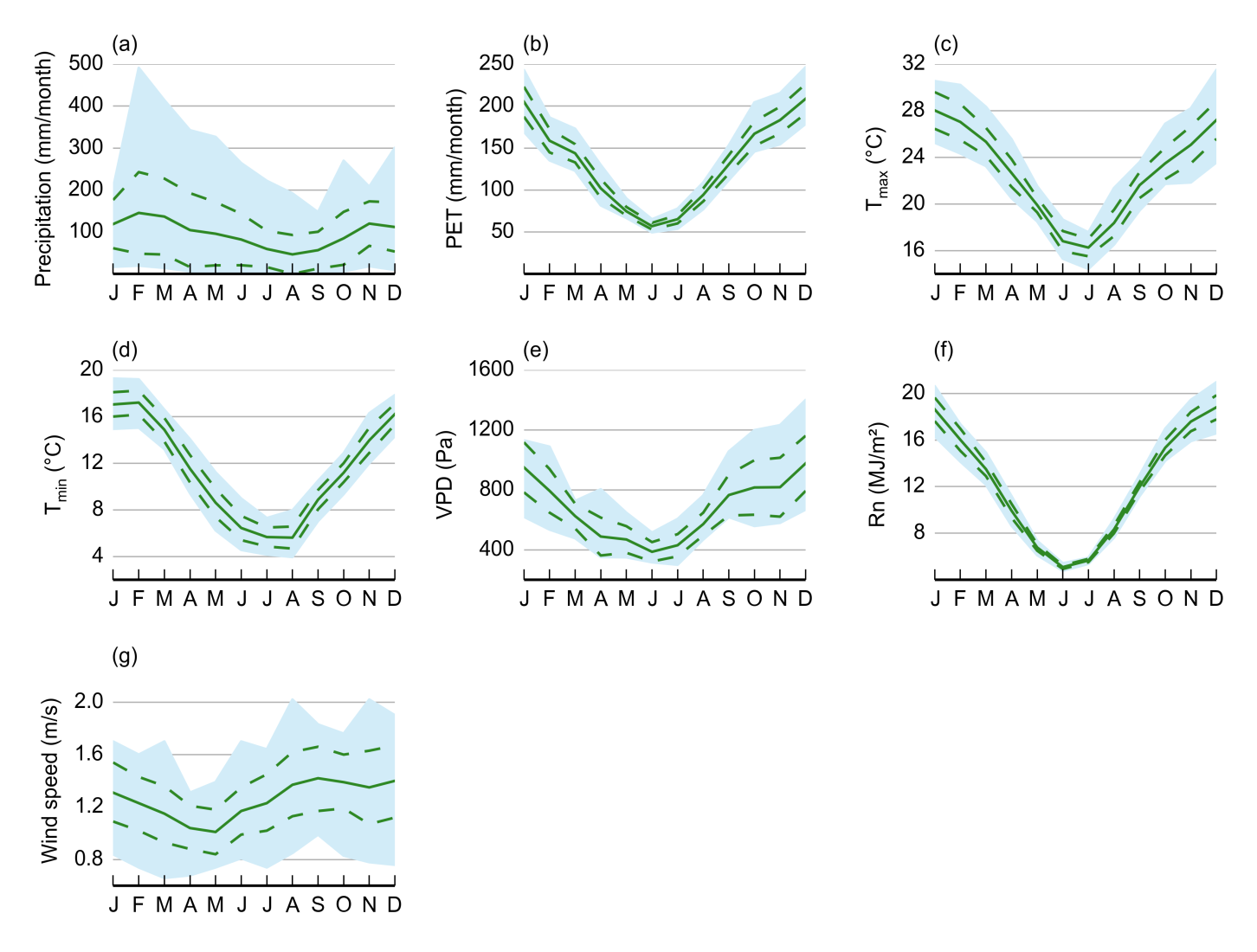


Figure 3 Monthly average values of (a) precipitation,(b) potential evapotranspiration (PET), (c) maximum temperature (Tmax­), (d) minimum temperature (Tmin­), (e) vapour pressure deficit (VPD), (f) net radiation (Rn) and (g) wind speed for the Gloucester subregion. The mean (solid line), ± 1 standard deviation (dashed lines) and the minimum to maximum range (blue shaded area) are shown. Values were calculated over the years 1981 to 2012 (inclusive)

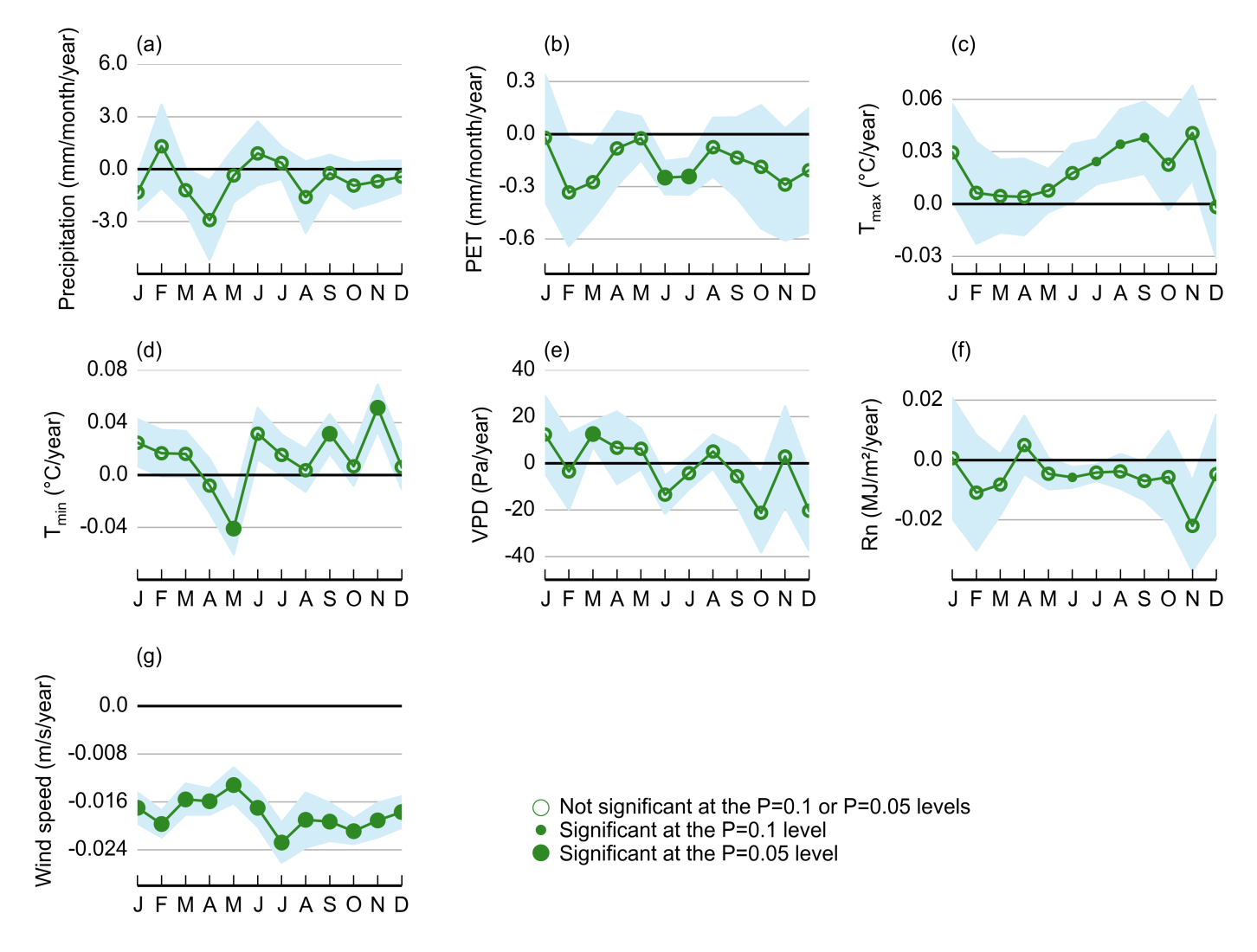


Figure 4 Annual trend by month of (a) precipitation,(b) potential evapotranspiration (PET), (c) maximum temperature (Tmax­), (d) minimum temperature (Tmin), (e) vapour pressure deficit (VPD), (f) net radiation (Rn) and (g) wind speed for the Gloucester subregion. The trend (line), ± 1 standard error (blue shaded area) and trend significance (markers) are shown. Values were calculated over the years 1981 to 2012 (inclusive)

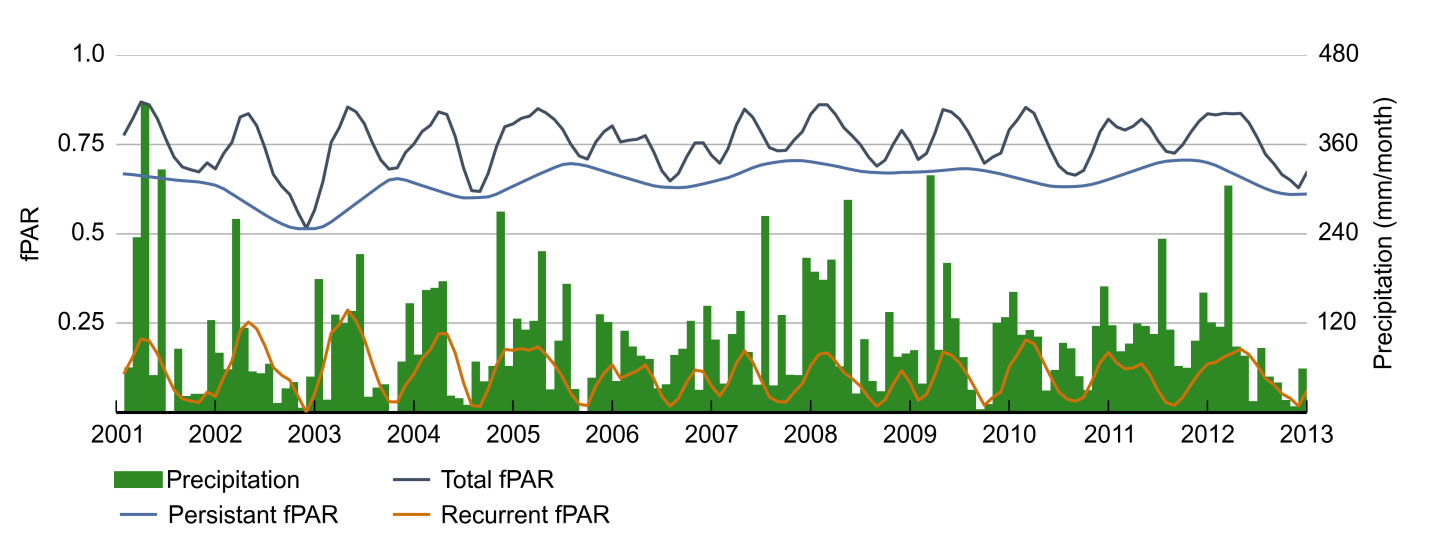


Figure 5 Time series of total, persistent and recurrent fraction of photosynthetically available radiation (fPAR) and precipitation, on a monthly basis from January 2001 to December 2012 for the Gloucester subregion. fPAR are derived from the MODIS sensor and the total is temporally decomposed into the persistent and recurrent components using the method of Donohue et al (2009).