

Metadata for solar radiation data recorded at Lopé NP, Gabon (2012 – 2016)

Solar radiation has been recorded at Lopé using two weather stations in the savanna (11.605E, -0.201N) from 2012 to 2016.

A Davis VantagePro2 (<https://www.davisinstruments.com/solution/vantage-pro2/>) was installed in January 2012 and recorded solar radiation every 30 minutes for two years until the equipment was struck by lightning in January 2014. A SKYE MINIMET weather station (<https://www.skyeinstruments.com/minimet-automatic-weather-station/>) was installed at the same location in 2013 and collected solar radiation data every 30 minutes. The SKYE unit ran intermittently until 2016 when the equipment was also damaged by lightning; data records between January 2014 and November 2014 were also lost.

We summarised data by calculating the mean solar radiation per day for each weather station (Figure 1).

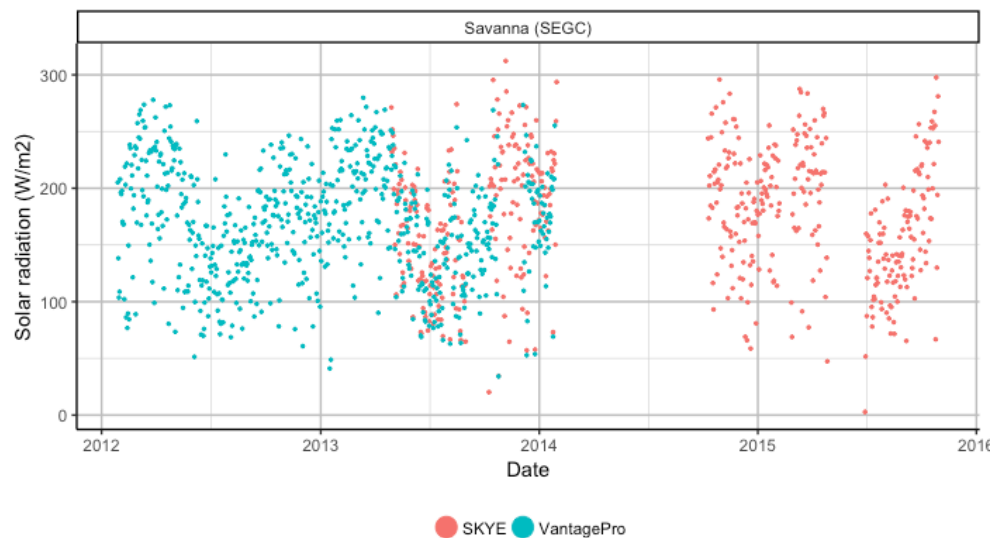


Figure 1. Time series plots of surface solar radiation at Lopé NP, 2012-2016. Coloured dots show daily mean observations from different equipment.

The accompanying data includes daily mean solar radiation for each weather station (Solar radiation daily dataset A in accompanying manuscript).