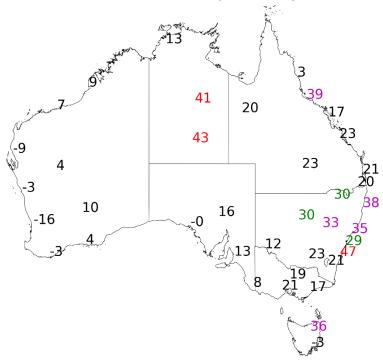
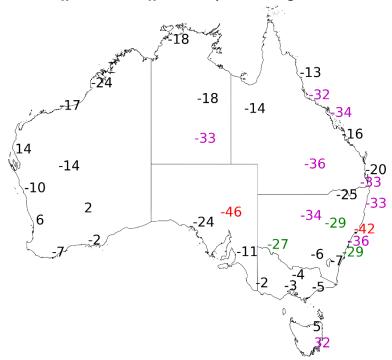
## JJA FFDI90-JJA ENSO partial lag=0



a.

## JJA FFDI90-JJA SAM partial lag=0



b.

## JJA FFDI90-JJA IOD partial lag=0 24 -23 -8 -20 41 7 40 31 17 25 31 18 29 18 18 18

c.

S1 Fig. Partial correlation coefficient values multiplied by 100 for JJA 90<sup>th</sup> percentile FFDI and a. JJA NINO3.4 b. JJA SAM c. JJA IOD (no season lag) (1972 – 2017). Significance greater than 99% in red, 95% in magenta and 90% green.