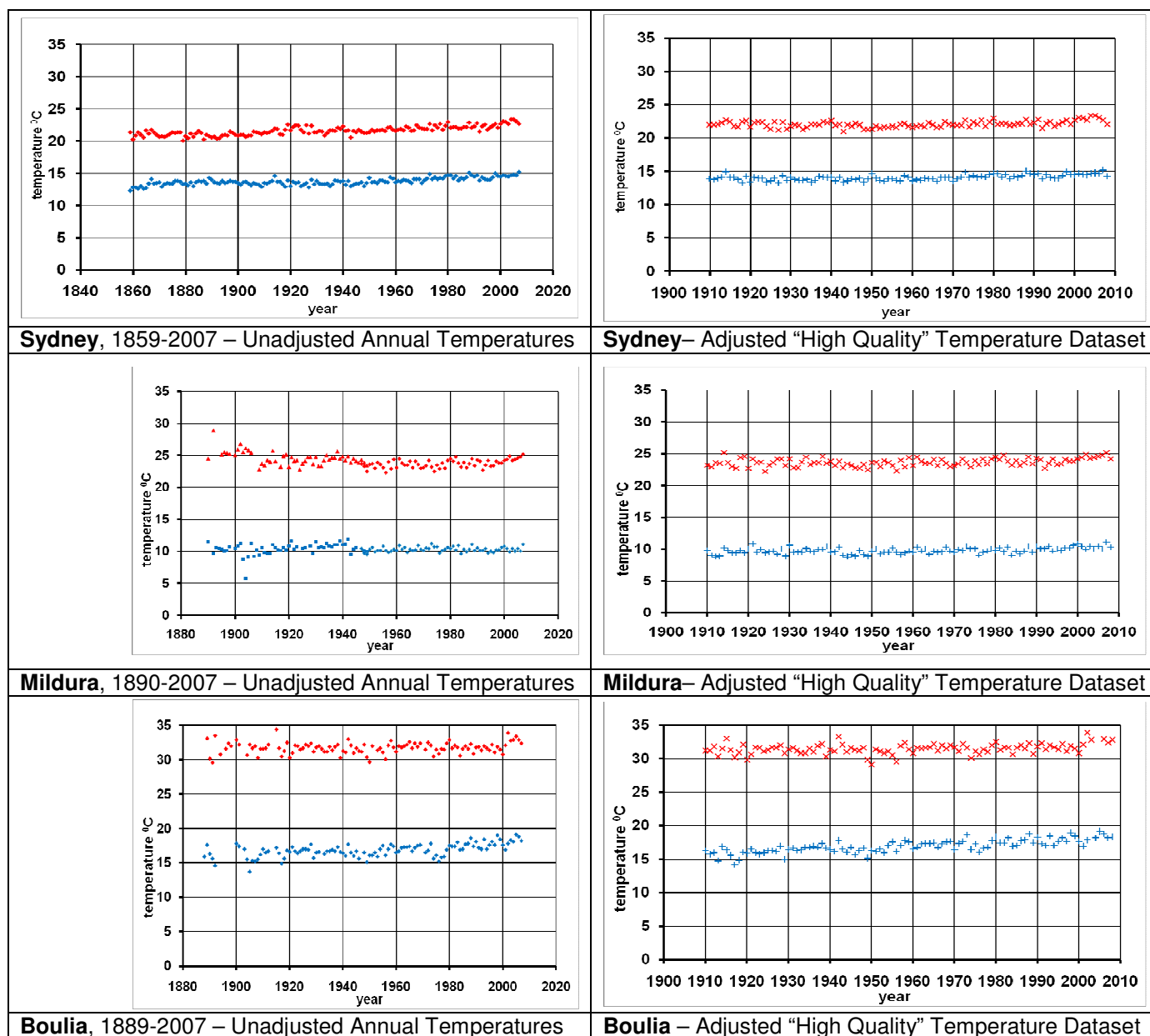


## CASE STUDY: Global Warming - the forest from the trees

### 5. Long term trends in temperature data from different sites.

#### ACTIVITY: Comparing long term trends

Examine the graphs below which show the trends in values of the annual means of the monthly statistics for the daily **maximum** and **minimum** temperature across the years at three met stations in NSW and Qld. The values on the left hand side are drawn from the Bureau of Meteorology's "Climate Data Online" monthly statistics (*BOM, 2009 b*) and have not been subject to quality control adjustments. The values on the right hand side are drawn from the "Australia's High Quality Climate Change Data" and have been subject to quality control adjustment (*BOM, 2009 c*). For a detailed description of how the High Quality Datasets are obtained from the raw data see **Appendices 3, 4(a), 4(b) and 4(c)** in the separate **Appendices** document.



**Note:** Red data points are the annual mean maximums. Blue data points are the annual mean minimums.



## CASE STUDY: Global Warming - the forest from the trees

### QUESTIONS:

1. *Based on a quick overview of these graphs, which of the three locations is 'hottest' on average?*
2. *Based on a quick overview of these graphs, do you think there has been any overall change in temperatures over the years? Explain your answer.*

### EXTENSION

1. *Based on the information in **Appendix 3** in the separate **Appendices** document, can you suggest a reason why the "High Quality Data Set" does not include data before 1910?*



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