

HadCM3 temperature scenarios for ATEAM

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In this document we illustrate the ATEAM scenarios at the grid-box level. We select:

- HadCM3 (rather than CSIRO mk 2, CGCM2, PCM);
- each of the SRES scenarios (A1FI, A2, B2, B1);
- four 10 minute grid boxes (Barcelona, Helsinki, Norwich, Potsdam).

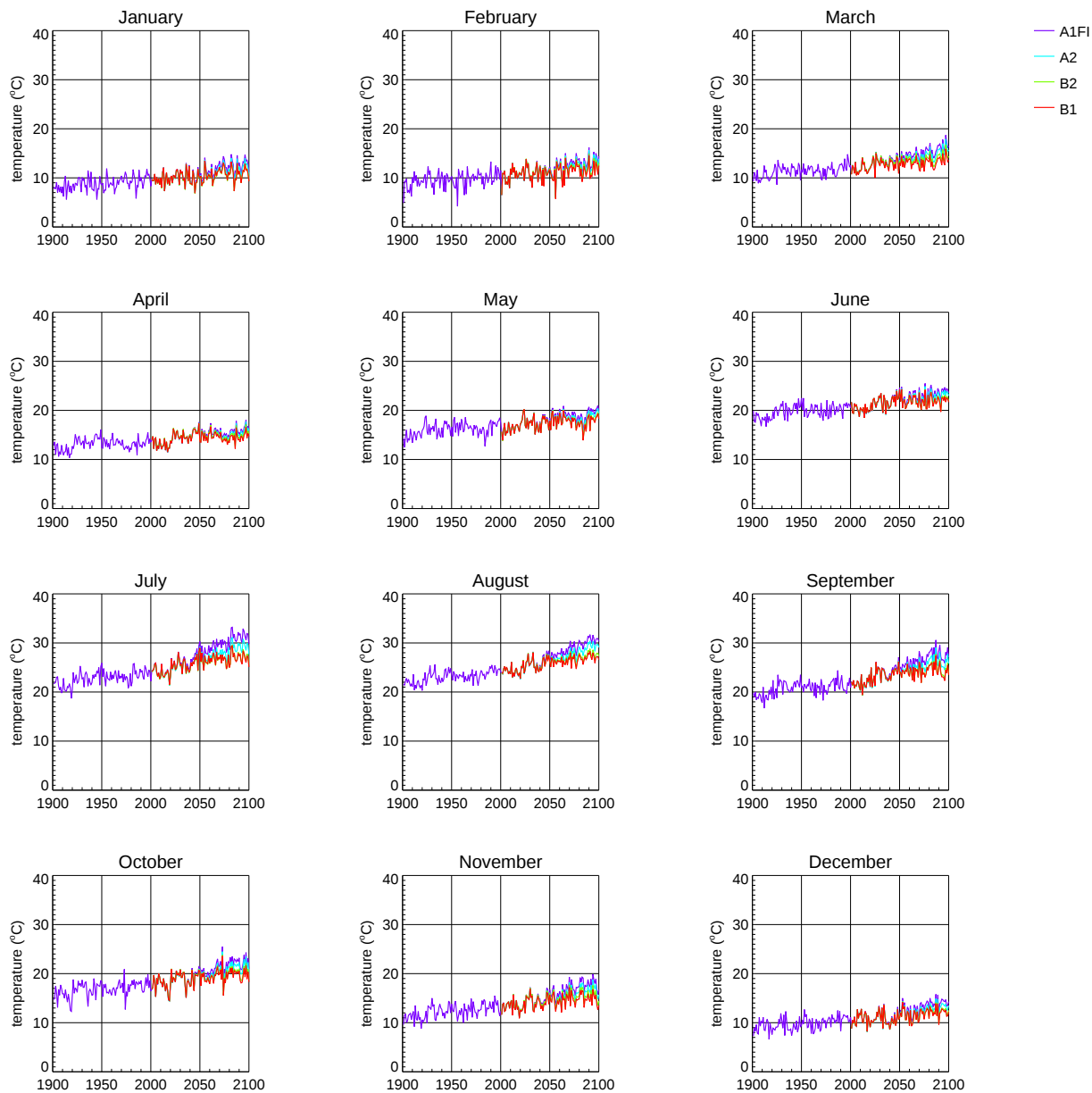
We plot the monthly time-series of daily mean temperature (1901-2100) under each scenario (see following pages). Note the following features in particular:

1. There is only one observed time-series (for each grid-box and variable) that is common to all the scenarios.
2. The time-series only differ in the long-term changes (on time scales of at least 30 years), not on shorter time-scales.
3. The time-series in the 21st century have identical inter-annual variability to the time-series in the 20th century.

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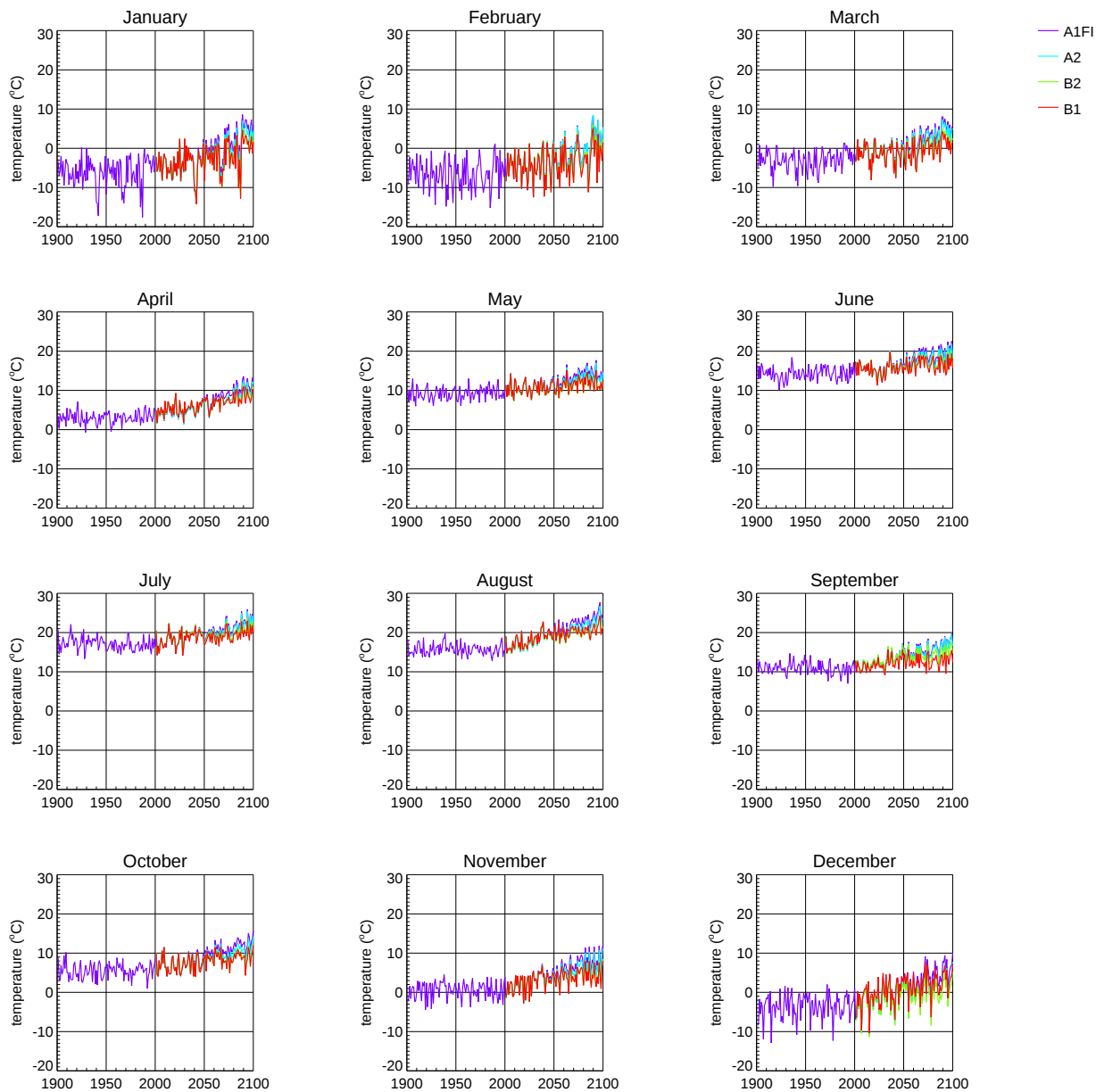
Barcelona temperature

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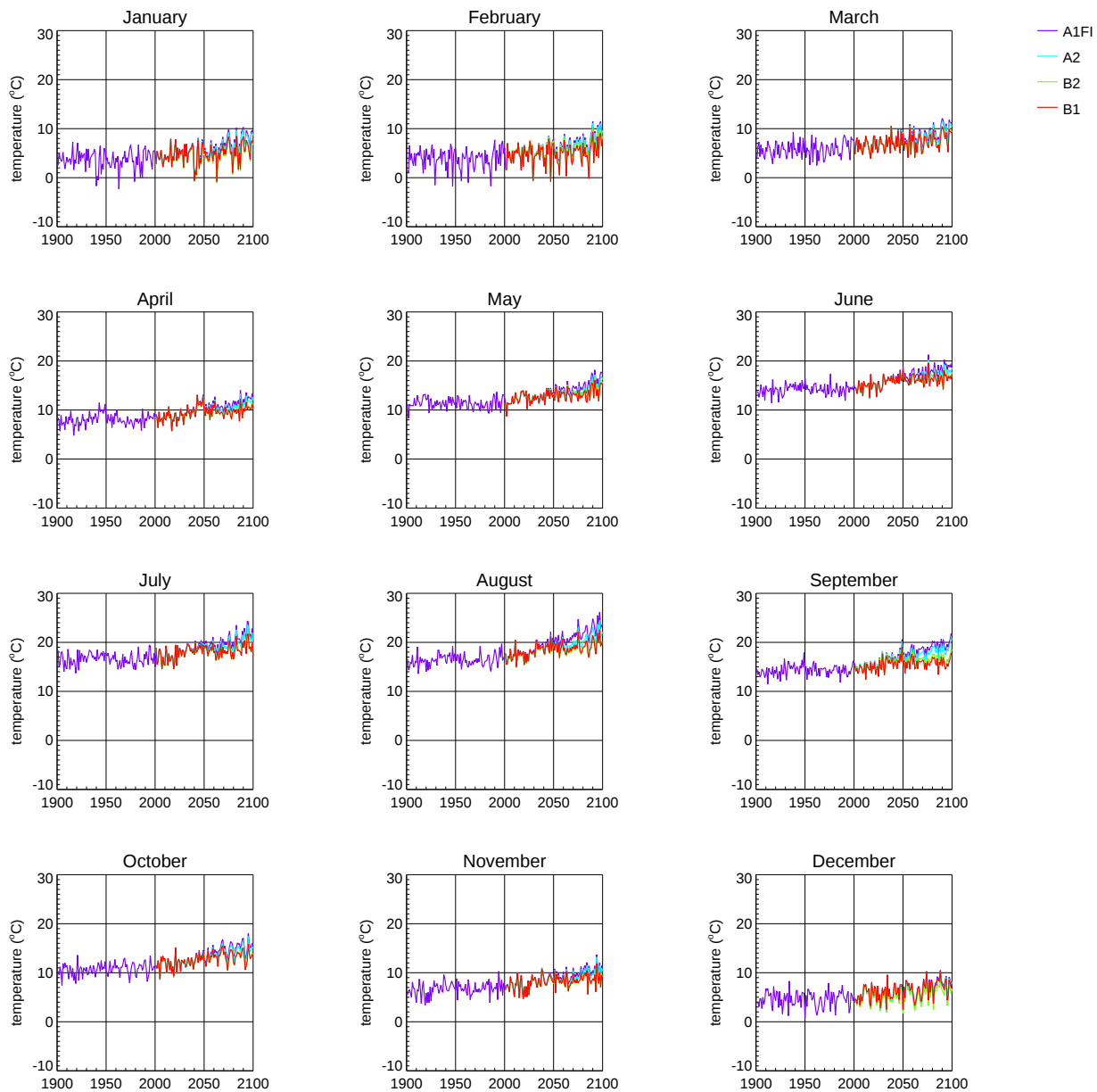
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Norwich temperature

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Potsdam temperature

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