



*Supplement of*

## **High-resolution regional climate modeling and projection over western Canada using a weather research forecasting model with a pseudo-global warming approach**

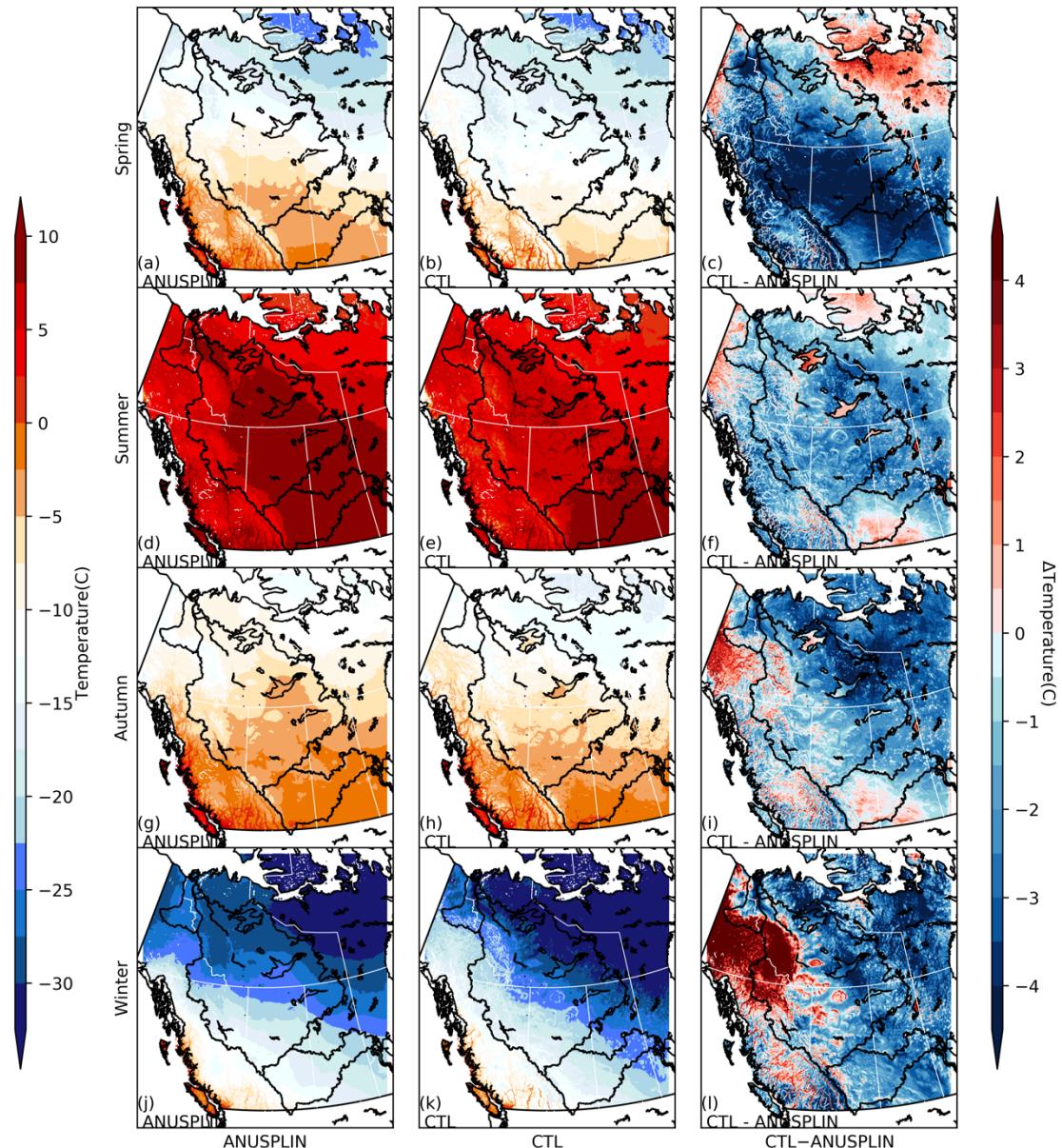
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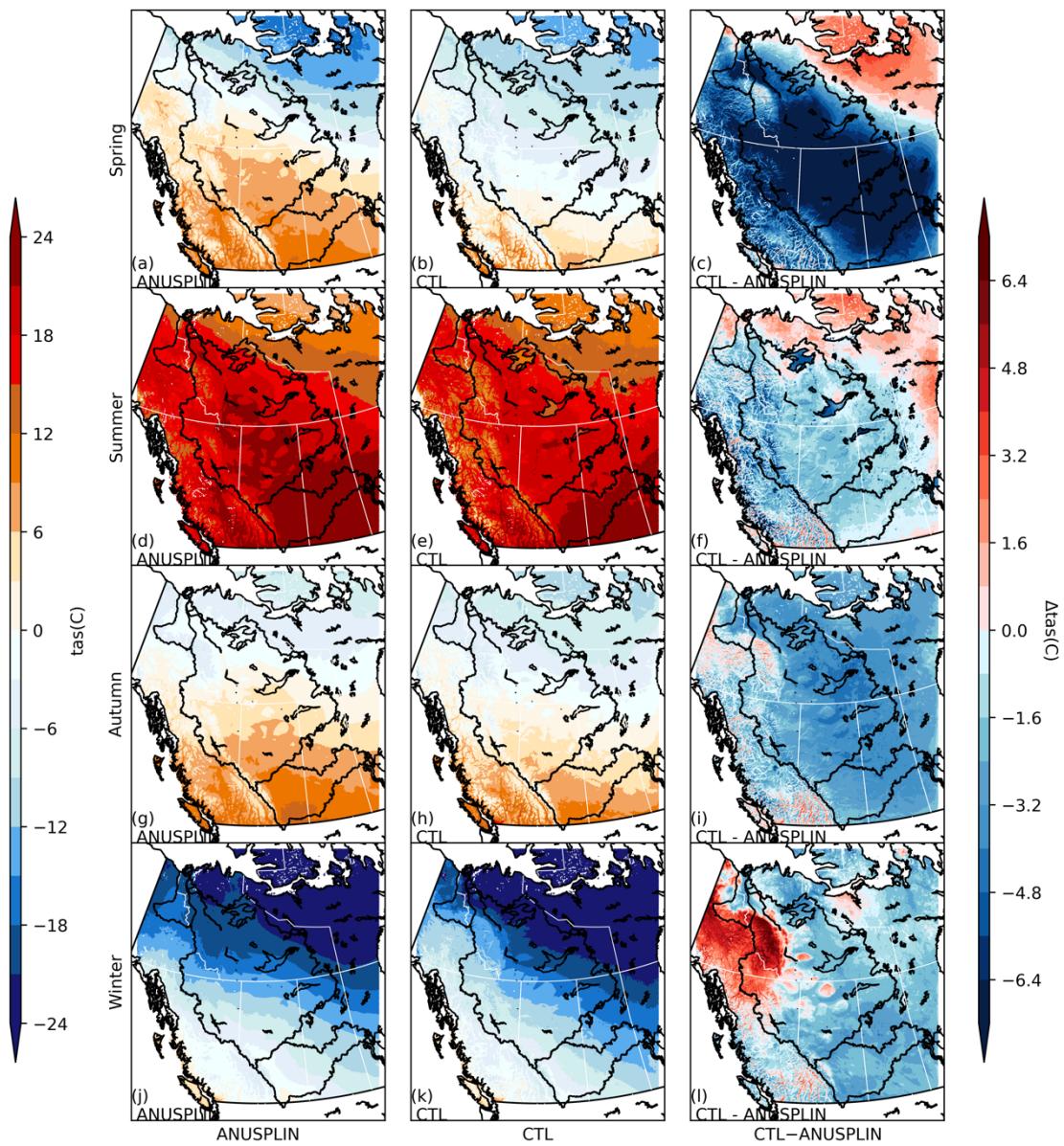
## Supplementary

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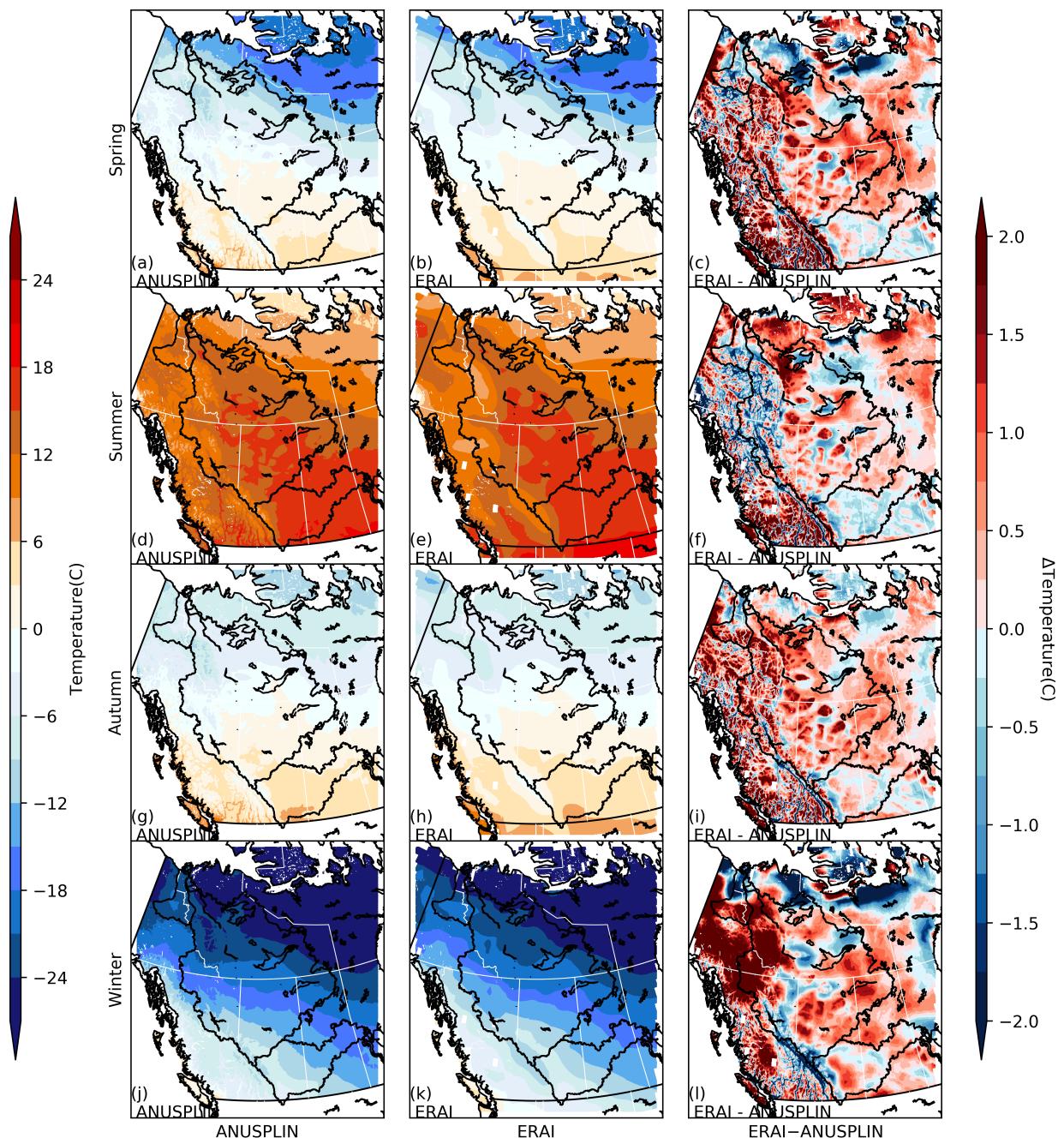


**Figure S1: The seasonal averaged daily minimum temperature in spring (MAM, 1<sup>st</sup> row), summer (JJA, 2<sup>nd</sup> row), and autumn (SON, 3<sup>rd</sup> row), and winter (DJF, 4<sup>th</sup> row) from ANUSPLIN (left column) and WRF-CTL (middle column) and the difference (CTL - ANUSPLIN, right column).**

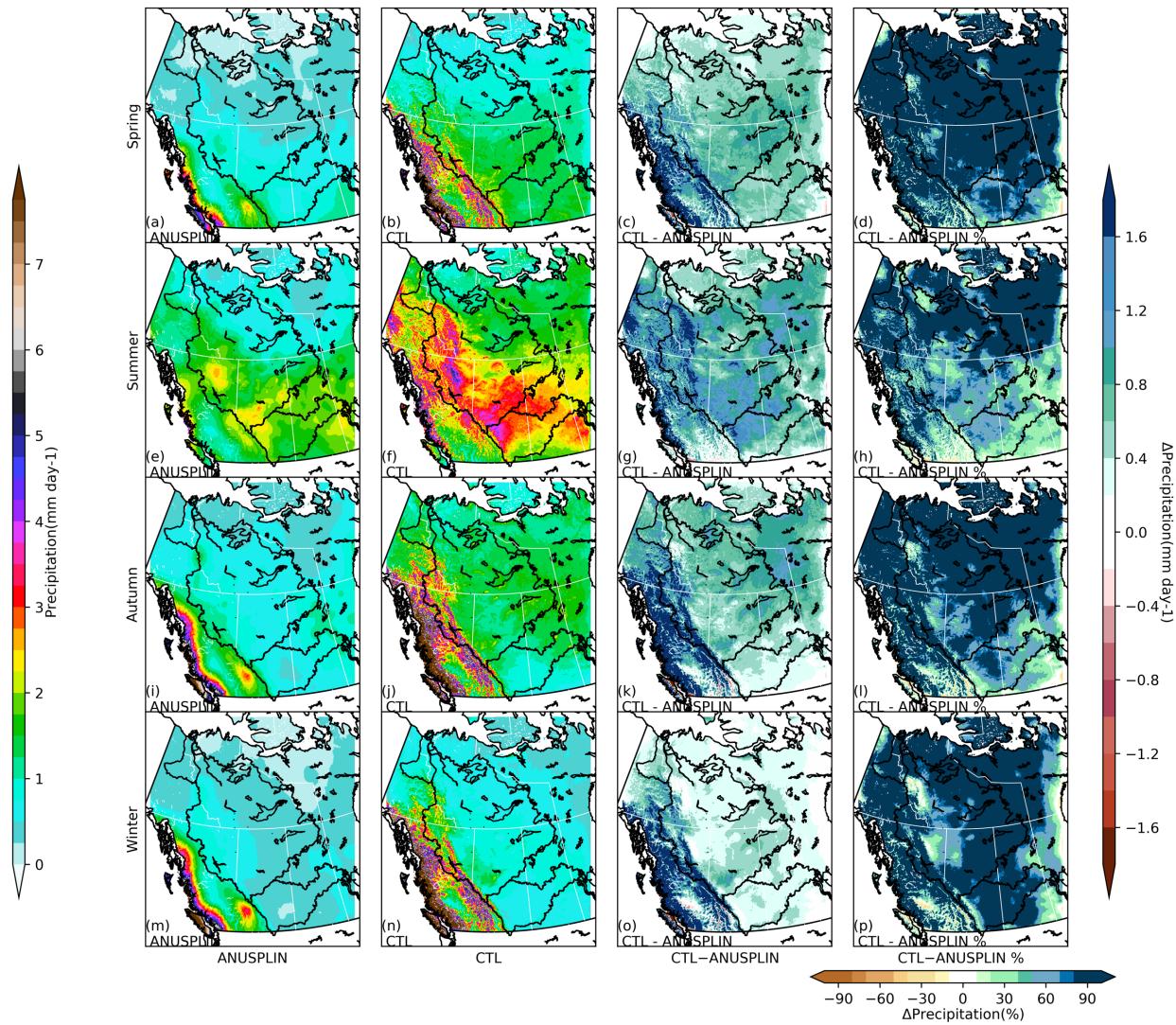
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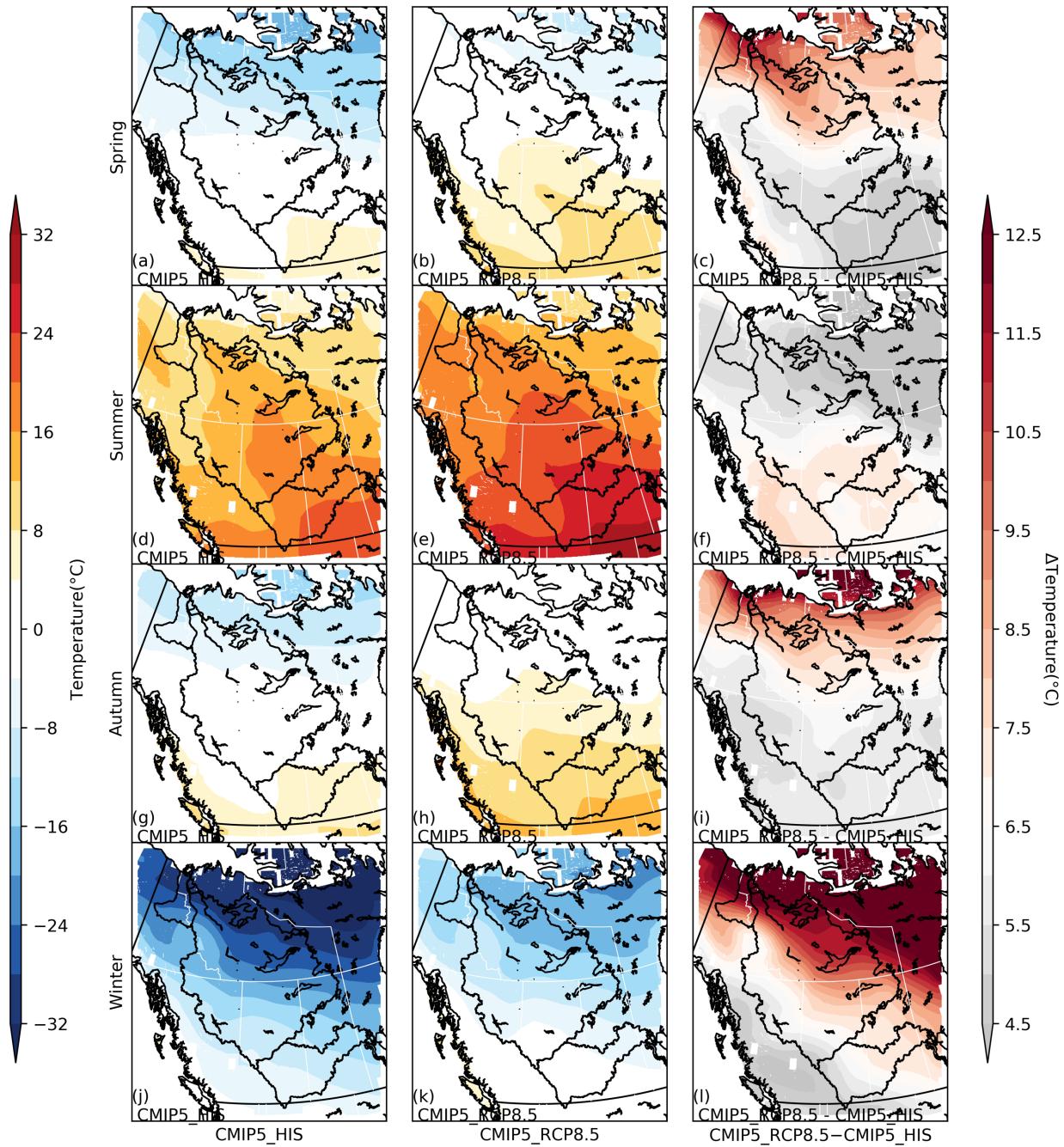
**Figure S2: The seasonal averaged daily maximum temperature in spring (MAM, 1<sup>st</sup> row), summer (JJA, 2<sup>nd</sup> row), and autumn (SON, 3<sup>rd</sup> row), and winter (DJF, 4<sup>th</sup> row) from ANUSPLIN (left column) and WRF-CTL (middle column) and the difference (CTL - ANUSPLIN, right column)**



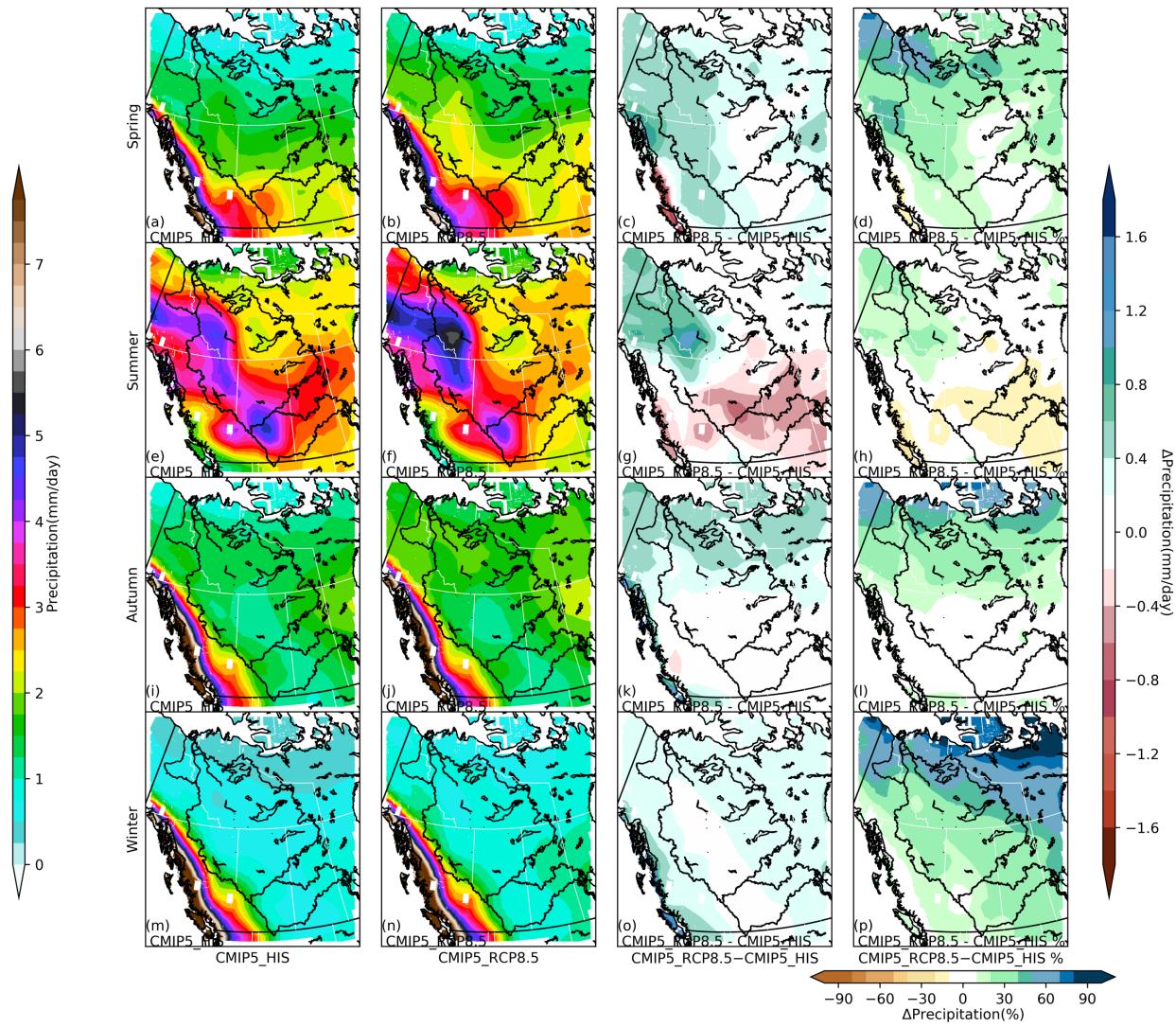
**Figure S3: The seasonal averaged daily temperature in spring (MAM, 1<sup>st</sup> row), summer (JJA, 2<sup>nd</sup> row), and autumn (SON, 3<sup>rd</sup> row), and winter (DJF, 4<sup>th</sup> row) from ANUSPLIN (left column) and ERA-Interim (middle column) and the difference (ERAI - ANUSPLIN, right column)**



**Figure S4: The daily mean precipitation in spring (MAM, 1<sup>st</sup> row), summer (JJA, 2<sup>nd</sup> row), and autumn (SON, 3<sup>rd</sup> row), and winter (DJF, 4<sup>th</sup> row) from ANUSPLIN (1<sup>st</sup> column) and WRF-CTL(2<sup>nd</sup> column), and their absolute (3<sup>rd</sup> column) and relative differences in percentage (4<sup>th</sup> column).**



**Figure S5: The daily mean temperature in spring (MAM, 1<sup>st</sup> row), summer (JJA, 2<sup>nd</sup> row), and autumn (SON, 3<sup>rd</sup> row), and winter (DJF, 4<sup>th</sup> row) from CMIP5 ensemble 1976-2005 (1st column), CMIP5 RCP8.5 ensemble 2071-2100 (2nd column) and the difference (CMIP5\_RCP8.5- CMIP5\_HIS, 3rd column).**



**Figure S6: The daily mean precipitation in spring (MAM, 1<sup>st</sup> row), summer (JJA, 2<sup>nd</sup> row), and autumn (SON, 3<sup>rd</sup> row), and winter (DJF, 4<sup>th</sup> row) from CMIP5 ensemble 1976-2005 (1st column), CMIP5 RCP8.5 ensemble 2071-2100(2nd column) and the difference (CMIP5\_RCP8.5- CMIP5\_HIS, 3rd column) and percentage difference (4<sup>th</sup> column).**