

Climate Explorer European Climate Assessment & Data KNMI

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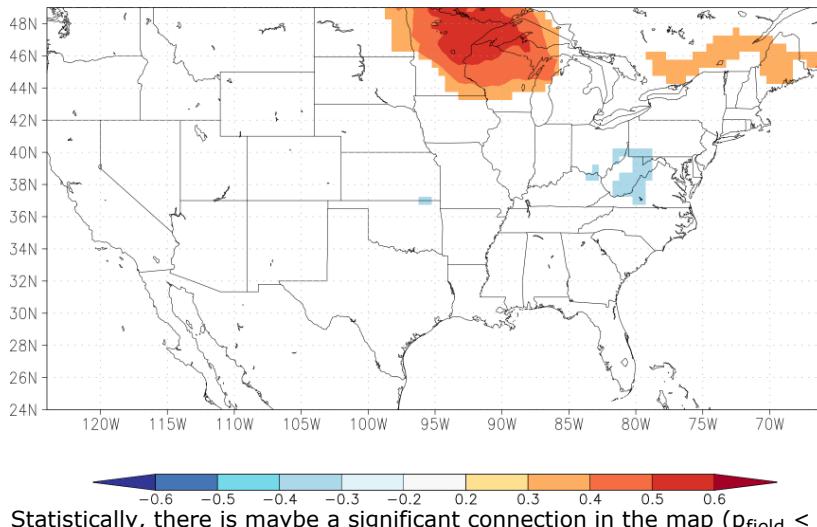
Replot

Field correlations of 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean (era5_t2m_1980_2017_anom.info_-124--66E_24-49N_n_su) with CRU TS4.03 cloud fraction

Plotting with [GrADS v2.2.0...](#)

corr Jan 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean with Jan CRU TS4.03 cloud fraction 1980:2017 p<5% ([eps](#), [pdf](#))

corr Jan 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean with Jan CRU TS4.03 cloud fraction 1980:2017 p<5%

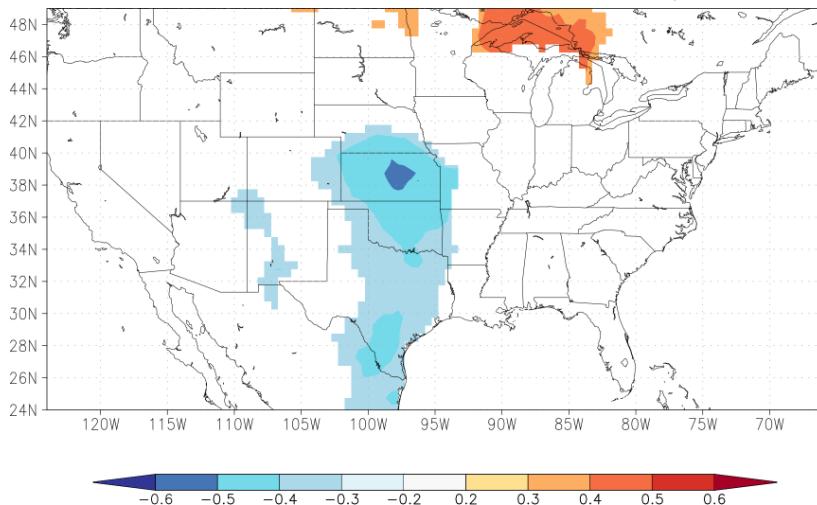


Statistically, there is maybe a significant connection in the map (p_{field} < 20.0%). [Details...](#)

The fraction of the map with p< 5.00% is 9.71%. With an estimated decorrelation scale of 8.5° and (29.°)² with data there are about 8 degrees of freedom in the map. This gives a field significance of 10.0% < p_{field} < 20.0%.

corr Feb 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean with Feb CRU TS4.03 cloud fraction 1980:2017 p<5% ([eps](#), [pdf](#))

corr Feb 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean with Feb CRU TS4.03 cloud fraction 1980:2017 p<5%



Select a time series

- [Daily station data](#)
- [Daily climate indices](#)
- [Monthly station data](#)
- [Monthly climate indices](#)
- [Annual climate indices](#)
- [View, upload your time series](#)

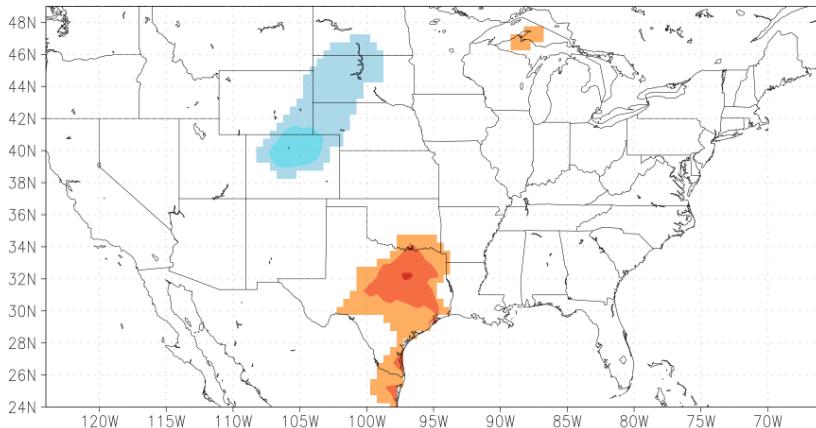
Select a field

- [Daily fields](#)
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- [Monthly reanalysis fields](#)
- [Monthly and seasonal historical reconstructions](#)
- [Monthly seasonal hindcasts](#)
- [Monthly CMIP3+ scenario runs](#)
- [Monthly CMIP5 scenario runs](#)
- [Annual CMIP5 extremes](#)
- [Monthly CMIP6 scenario runs](#)
- [Monthly CORDEX scenario runs](#)
- [Attribution runs](#)
- [View, upload your field](#)

Statistically, there is likely a significant connection in the map ($p_{\text{field}} < 10.0\%$). [Details...](#)

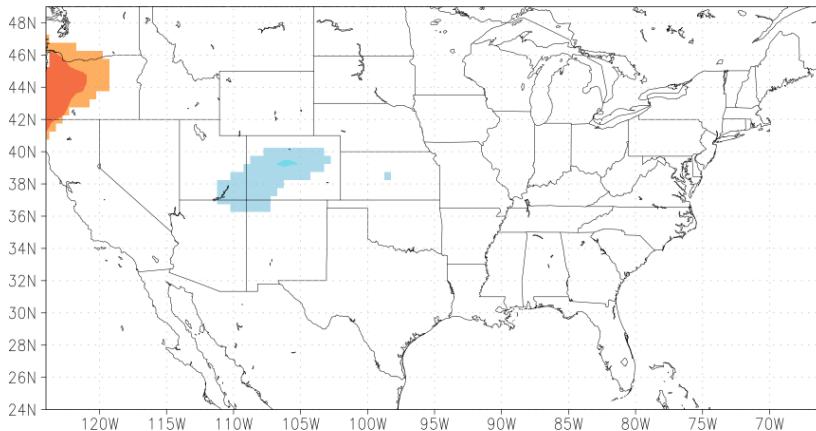
The fraction of the map with $p < 5.00\%$ is 19.15%. With an estimated decorrelation scale of 15.5° and $(29^\circ)^2$ with data there are about 2 degrees of freedom in the map. This gives a field significance of $5.0\% < p_{\text{field}} < 10.0\%$.

corr Mar 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean with Mar CRU TS4.03 cloud fraction 1980:2017 $p < 5\%$ ([eps](#), [pdf](#))
 corr Mar 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean with Mar CRU TS4.03 cloud fraction 1980:2017 $p < 5\%$



Statistically, there is likely a significant connection in the map ($p_{\text{field}} < 10.0\%$). [Details...](#) The fraction of the map with $p < 5.00\%$ is 10.67%. With an estimated decorrelation scale of 7.6° and $(29^\circ)^2$ with data there are about 10 degrees of freedom in the map. This gives a field significance of $5.0\% < p_{\text{field}} < 10.0\%$.

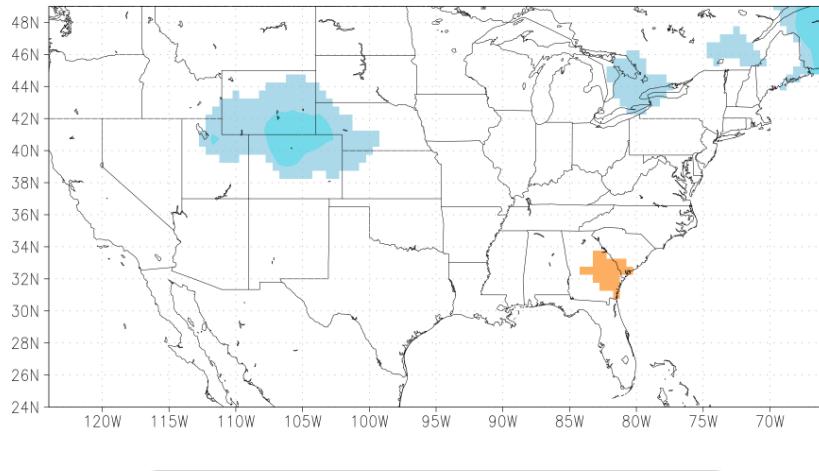
corr Apr 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean with Apr CRU TS4.03 cloud fraction 1980:2017 $p < 5\%$ ([eps](#), [pdf](#))
 corr Apr 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean with Apr CRU TS4.03 cloud fraction 1980:2017 $p < 5\%$



Statistically, the map is indistinguishable from random noise ($p_{\text{field}} > 20.0\%$). [Details...](#) The fraction of the map with $p < 5.00\%$ is 4.97%. With an estimated decorrelation scale of 25.0° and $(29^\circ)^2$ with data there are about 2 degrees of freedom in the map. This gives a field significance of $20.0\% < p_{\text{field}} < 50.0\%$.

corr May 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean with May CRU TS4.03 cloud fraction 1980:2017 $p < 5\%$ ([eps](#), [pdf](#))

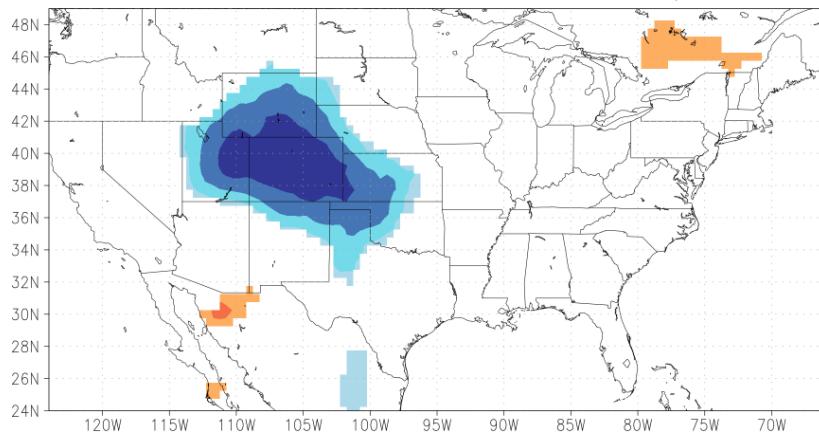
corr May 1980–2017 anomalies ERA5 T2m -124–66E 24–49N mean
with May CRU TS4.03 cloud fraction 1980:2017 p<5%



Statistically, there is maybe a significant connection in the map ($p_{\text{field}} < 20.0\%$). [Details...](#) The fraction of the map with $p < 5.00\%$ is 10.84%. With an estimated decorrelation scale of 25.0° and $(29.^\circ)^2$ with data there are about 2 degrees of freedom in the map. This gives a field significance of $10.0\% < p_{\text{field}} < 20.0\%$.

corr Jun 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean with Jun CRU TS4.03 cloud fraction 1980:2017 p<5% ([eps](#), [pdf](#))

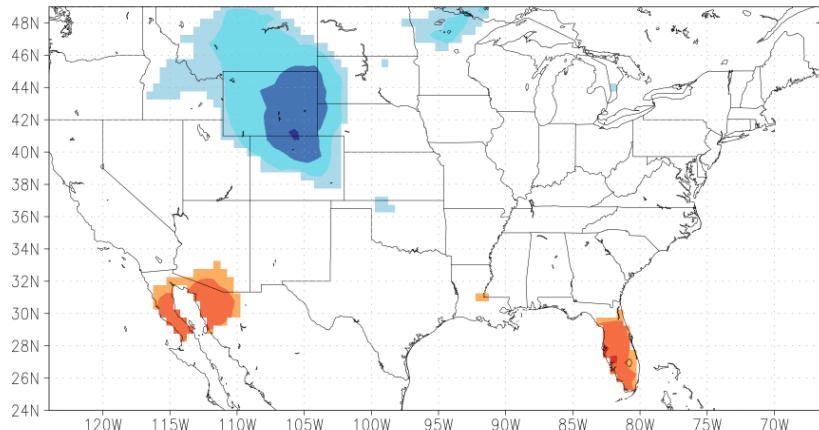
corr Jun 1980–2017 anomalies ERA5 T2m -124–66E 24–49N mean with Jun CRU TS4.03 cloud fraction 1980:2017 p<5%



Statistically, there is likely a significant connection in the map ($p_{\text{field}} < 5.0\%$). [Details...](#) The fraction of the map with $p < 5.00\%$ is 18.44%. With an estimated decorrelation scale of 8.0° and $(29.^\circ)^2$ with data there are about 8 degrees of freedom in the map. This gives a field significance of $2.0\% < p_{\text{field}} < 5.0\%$.

corr Jul 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean with Jul CRU TS4.03 cloud fraction 1980:2017 p<5% ([eps](#), [pdf](#))

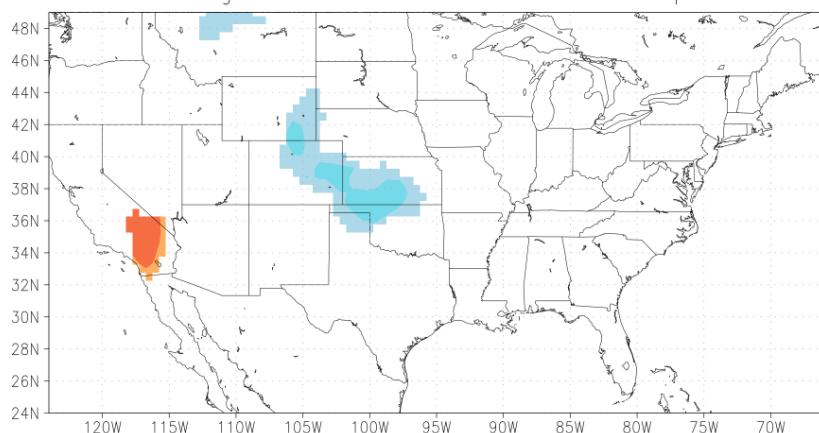
corr Jul 1980–2017 anomalies ERA5 T2m -124–66E 24–49N mean
with Jul CRU TS4.03 cloud fraction 1980:2017 p<5%



Statistically, there is likely a significant connection in the map ($p_{\text{field}} < 10.0\%$). **Details...** The fraction of the map with $p < 5.00\%$ is 16.82%. With an estimated decorrelation scale of 12.7° and $(29.^\circ)^2$ with data there are about 4 degrees of freedom in the map. This gives a field significance of $5.0\% < p_{\text{field}} < 10.0\%$.

corr Aug 1980–2017 anomalies ERA5 T2m -124–66E 24–49N mean with Aug CRU TS4.03 cloud fraction 1980:2017 p<5% ([eps](#), [pdf](#))

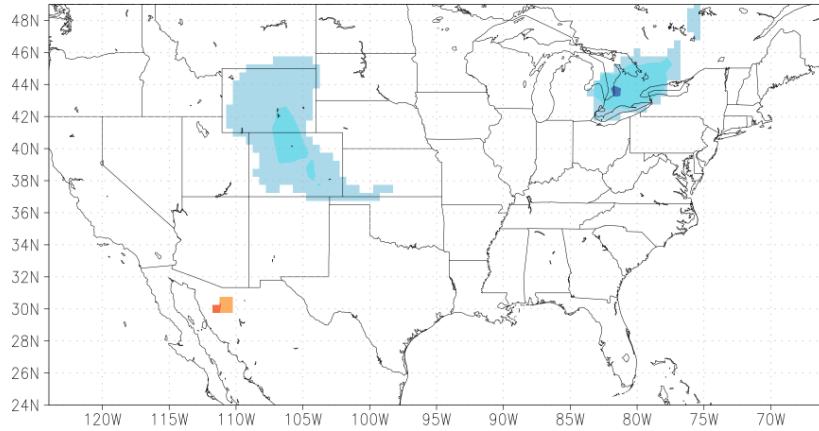
corr Aug 1980–2017 anomalies ERA5 T2m -124–66E 24–49N mean with Aug CRU TS4.03 cloud fraction 1980:2017 p<5%



Statistically, the map is indistinguishable from random noise ($p_{\text{field}} > 20.0\%$). **Details...** The fraction of the map with $p < 5.00\%$ is 7.05%. With an estimated decorrelation scale of 25.0° and $(29.^\circ)^2$ with data there are about 2 degrees of freedom in the map. This gives a field significance of $20.0\% < p_{\text{field}} < 50.0\%$.

corr Sep 1980–2017 anomalies ERA5 T2m -124–66E 24–49N mean with Sep CRU TS4.03 cloud fraction 1980:2017 p<5% ([eps](#), [pdf](#))

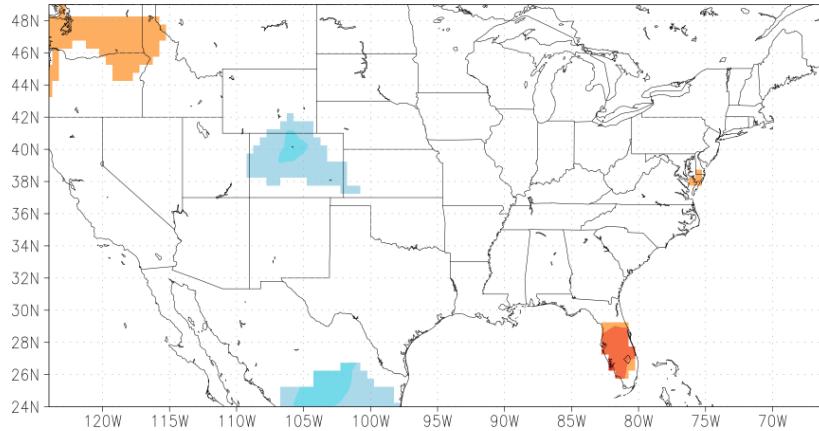
corr Sep 1980–2017 anomalies ERA5 T2m -124--66E 24–49N mean
with Sep CRU TS4.03 cloud fraction 1980:2017 p<5%



Statistically, there is maybe a significant connection in the map ($p_{\text{field}} < 20.0\%$). [Details...](#) The fraction of the map with $p < 5.00\%$ is 9.30%. With an estimated decorrelation scale of 25.0° and $(29.^\circ)^2$ with data there are about 2 degrees of freedom in the map. This gives a field significance of $10.0\% < p_{\text{field}} < 20.0\%$.

corr Oct 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean with Oct CRU TS4.03 cloud fraction 1980:2017 p<5% ([eps](#), [pdf](#))

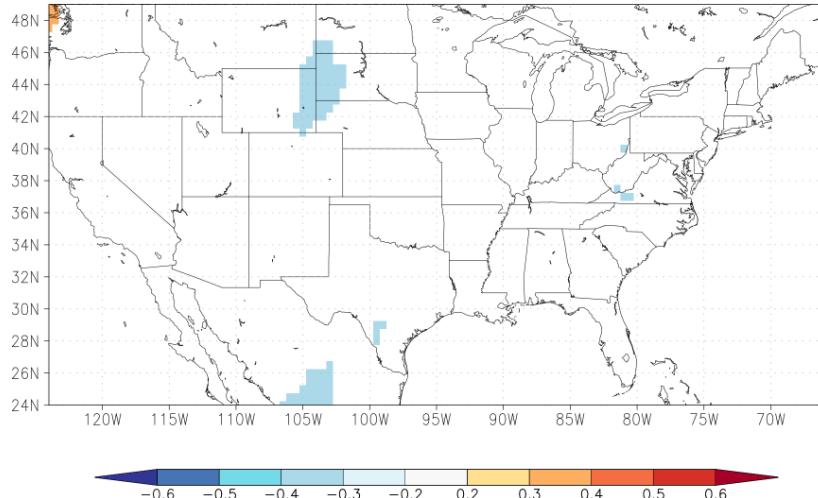
corr Oct 1980–2017 anomalies ERA5 T2m -124--66E 24–49N mean with Oct CRU TS4.03 cloud fraction 1980:2017 p<5%



Statistically, there is maybe a significant connection in the map ($p_{\text{field}} < 20.0\%$). [Details...](#) The fraction of the map with $p < 5.00\%$ is 9.11%. With an estimated decorrelation scale of 14.4° and $(29.^\circ)^2$ with data there are about 2 degrees of freedom in the map. This gives a field significance of $10.0\% < p_{\text{field}} < 20.0\%$.

corr Nov 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean with Nov CRU TS4.03 cloud fraction 1980:2017 p<5% ([eps](#), [pdf](#))

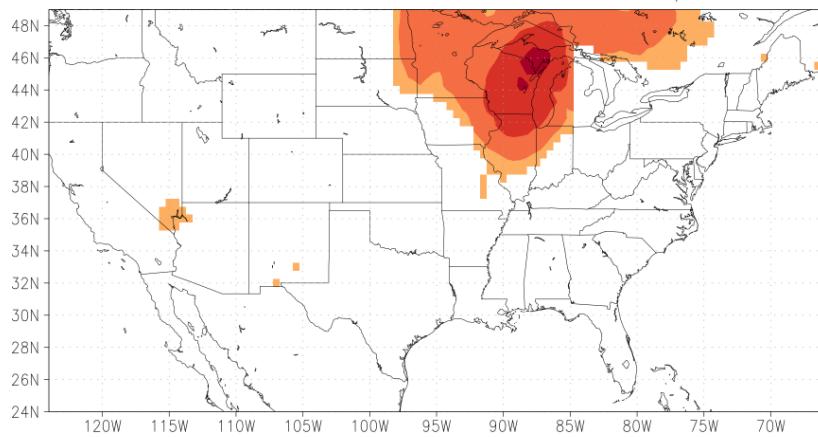
corr Nov 1980–2017 anomalies ERA5 T2m -124–66E 24–49N mean
with Nov CRU TS4.03 cloud fraction 1980:2017 p<5%



Statistically, the map is indistinguishable from random noise ($p_{field} > 20.0\%$). [Details...](#) The fraction of the map with $p < 5.00\%$ is 3.73%. With an estimated decorrelation scale of 25.0° and $(29.^\circ)^2$ with data there are about 2 degrees of freedom in the map. This gives a field significance of $20.0\% < p_{field} < 50.0\%$.

corr Dec 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean with Dec CRU TS4.03 cloud fraction 1980:2017 p<5% ([eps](#), [pdf](#))

corr Dec 1980–2017 anomalies ERA5 T2m -124–66E 24–49N mean with Dec CRU TS4.03 cloud fraction 1980:2017 p<5%



Statistically, there is likely a significant connection in the map ($p_{field} < 5.0\%$). [Details...](#) The fraction of the map with $p < 5.00\%$ is 14.53%. With an estimated decorrelation scale of 6.6° and $(29.^\circ)^2$ with data there are about 12 degrees of freedom in the map. This gives a field significance of $2.0\% < p_{field} < 5.0\%$.

Replot

Variable: correlation [1]

p-value [1]

regression of series t2m on field cld [Celsius]

regression of field cld on series t2m [1/Celsius]

error on regression of series t2m on field cld [Celsius]

error on regression of field cld on series t2m [1/Celsius]

number of valid points [1]

relative regression [1]

error on relative regression [1]

Map type:

default projection

[i](#)

Region: 24 °N to 49 °N, -124 °E to -66 °E in a

[i](#)

lat-lon plot

Contours: to mask out : $p > 5$ %

[i](#)

logarithmic scale

Colours: blue-grey-red 

Shading: shading and contours shading contours grid 

Plot options: no color bar no title on plot, no grid no political boundaries 

label distance x ° or no labels

Output to: browser Google Earth (kml) GIS (geotiff) 

Replot



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