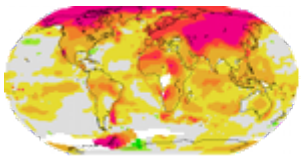


Field correlations

1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean with CRU TS4.03 cloud fraction

Computing correlations... (this may take a minute or so)

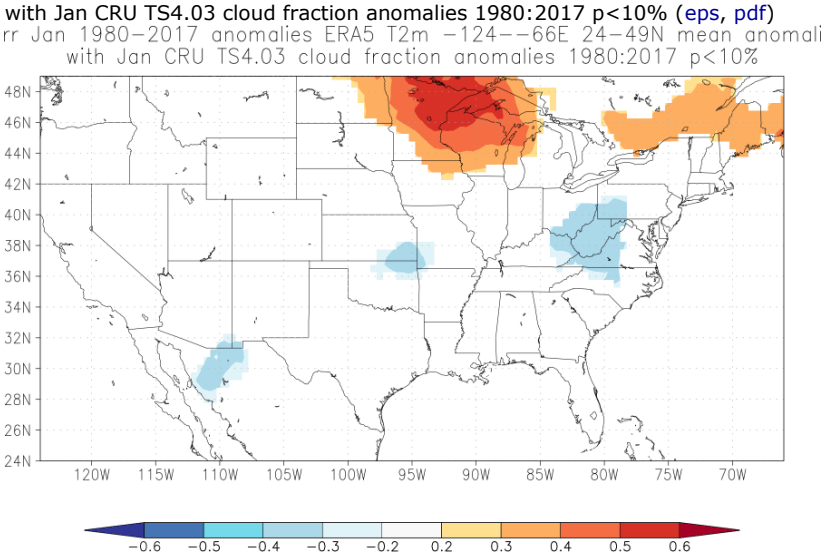
If it takes too long you can abort the job here (using the [back] button of the browser does not kill the correlation job)

Requiring at least 50% valid points

Plotting with GrADS v2.2.0...

---

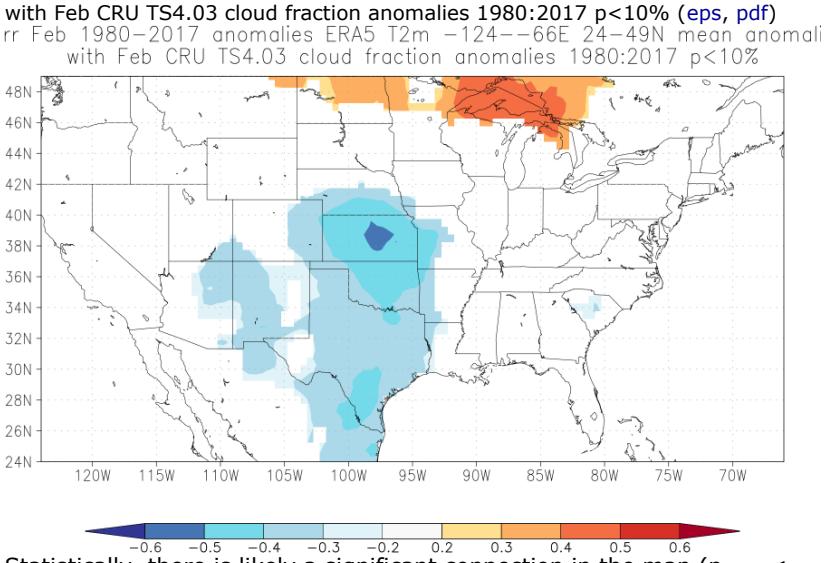
corr Jan 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean anomalies with Jan CRU TS4.03 cloud fraction anomalies 1980:2017 p<10% (eps, pdf)



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

---

corr Feb 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean anomalies with Feb CRU TS4.03 cloud fraction anomalies 1980:2017 p<10% (eps, pdf)



Statistically, there is likely a significant connection in the map (p_{field} < 10.0%). Details...

Select a time series
Daily station data
Daily climate indices
Monthly station data
Monthly climate indices
Annual climate indices
View, upload your time series

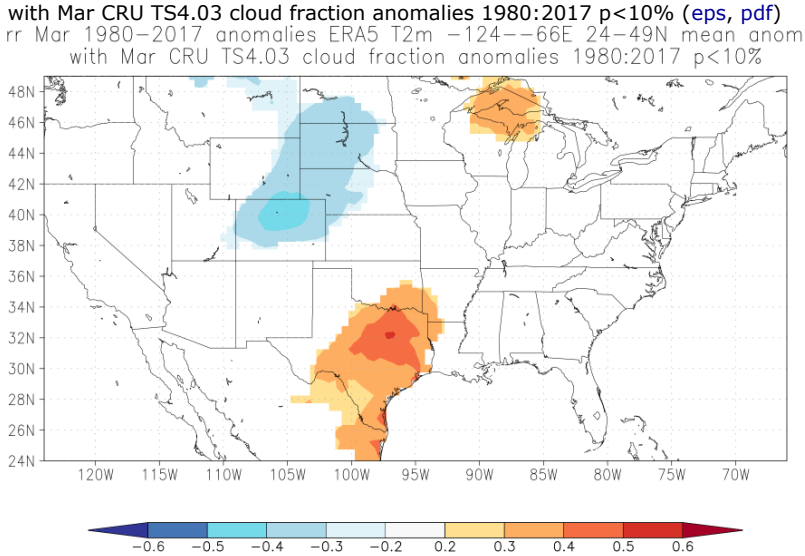
Select a field
Daily fields
Monthly observations
Monthly reanalysis fields
Monthly and seasonal historical reconstructions
Monthly seasonal hindcasts
Monthly CMIP3+ scenario runs
Monthly CMIP5 scenario runs
Annual CMIP5 extremes
Monthly CMIP6 scenario runs
Monthly CORDEX scenario runs
Attribution runs
View, upload your field

Investigate this time series
View per month, season, half year or full year (Jan-Dec or Jul-Jun)
View last 1, 5, 10, N years
Correlate with other time series
Correlate with a field (correlation, regression, composite)
- only observations
- only reanalyses
- only seasonal forecasts
- only scenario runs
- only user-defined fields

Verify against another time series
Spectrum, autocorrelation function
Wavelet
Running mean/s.d./skew/curtosis
Trends in return times of extremes
Plot and fit distribution

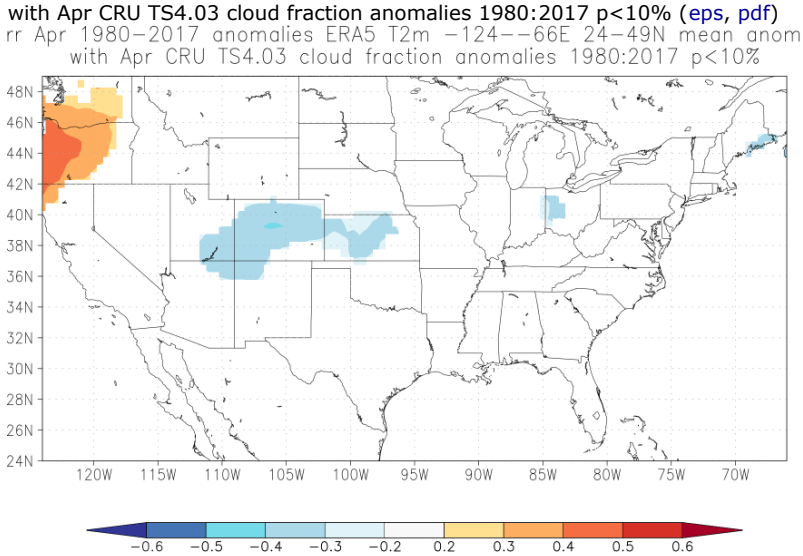
Investigate this field
Plot this field
Plot difference with a field
Compute mean, s.d. or extremes
Trends in extremes
Make EOFs
Correlate with a time series
Pointwise correlations with a field
- only observations
- only reanalyses
- only seasonal hindcasts
- only decadal hindcasts
- only CMIP5 scenario runs

corr Mar 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean anomalies with Mar CRU TS4.03 cloud fraction anomalies 1980:2017 p<10% (eps, pdf)



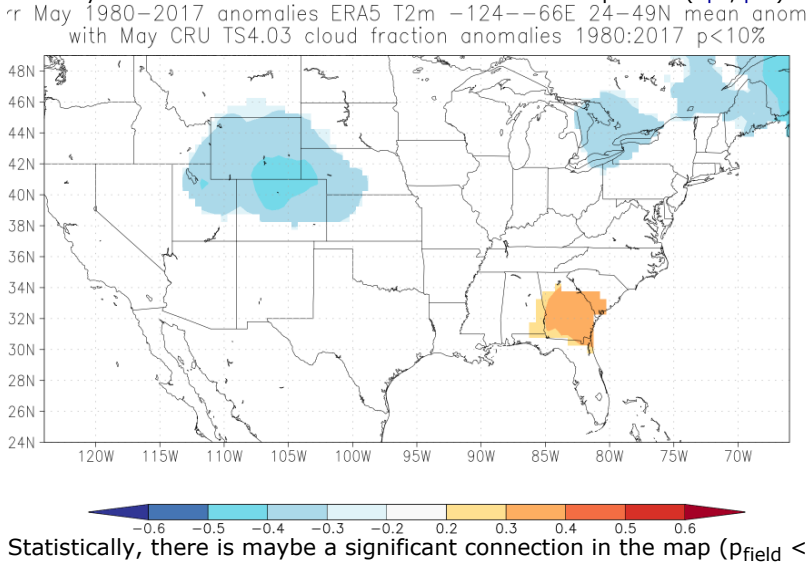
Statistically, there is likely a significant connection in the map (p_{field} < 10.0%). Details...

corr Apr 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean anomalies with Apr CRU TS4.03 cloud fraction anomalies 1980:2017 p<10% (eps, pdf)



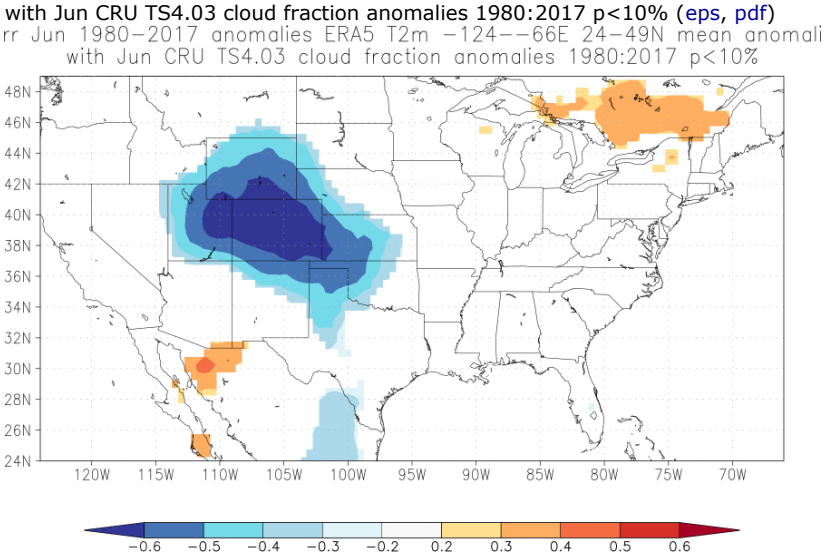
Statistically, the map is indistinguishable from random noise (pfield > 20.0%). Details...

corr May 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean anomalies with May CRU TS4.03 cloud fraction anomalies 1980:2017 p<10% (eps, pdf)



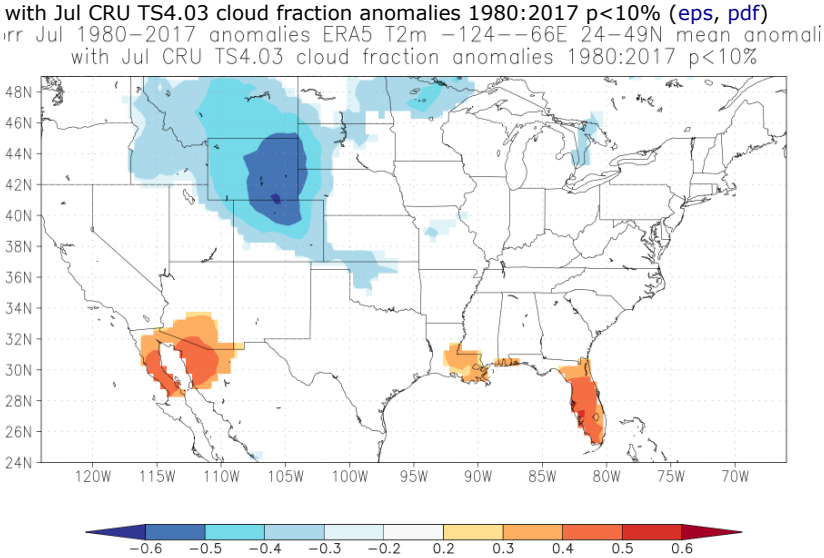
Statistically, there is maybe a significant connection in the map (p_{field} < 20.0%). Details...

corr Jun 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean anomalies with Jun CRU TS4.03 cloud fraction anomalies 1980:2017 p<10% (eps, pdf)



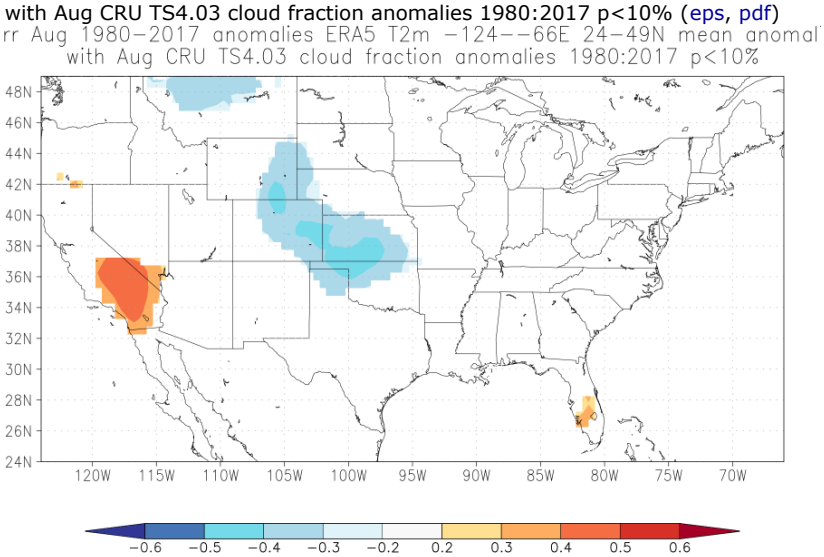
Statistically, there is likely a significant connection in the map (p_{field} < 5.0%). Details...

corr Jul 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean anomalies with Jul CRU TS4.03 cloud fraction anomalies 1980:2017 p<10% (eps, pdf)



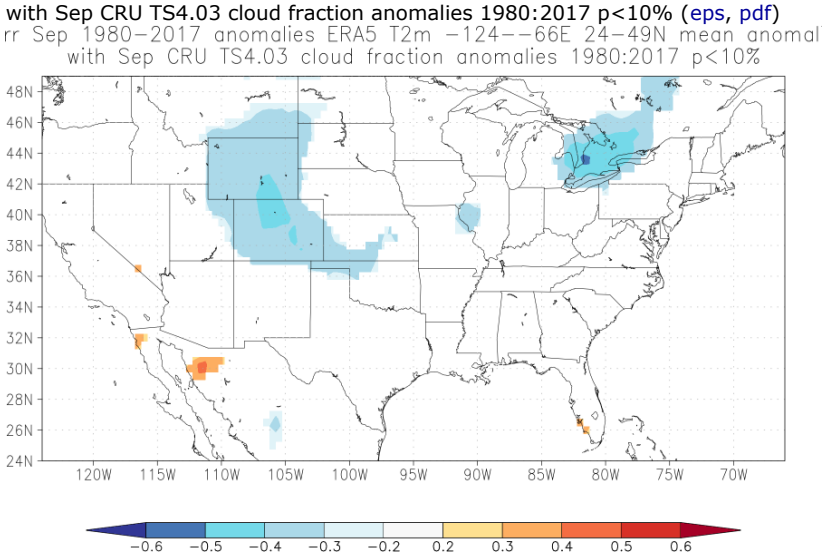
Statistically, there is likely a significant connection in the map (p_{field} < 10.0%). Details...

corr Aug 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean anomalies with Aug CRU TS4.03 cloud fraction anomalies 1980:2017 p<10% (eps, pdf)



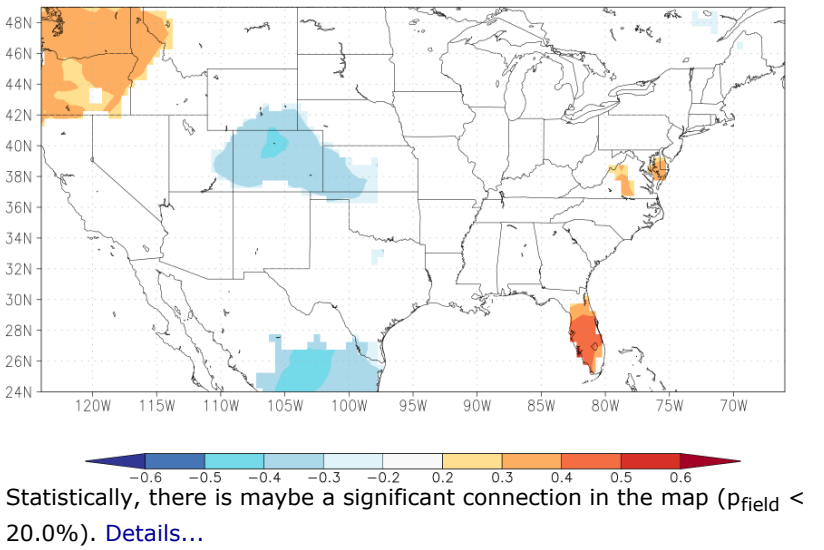
Statistically, the map is indistinguishable from random noise (pfield > 20.0%). Details...

corr Sep 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean anomalies with Sep CRU TS4.03 cloud fraction anomalies 1980:2017 p<10% (eps, pdf)



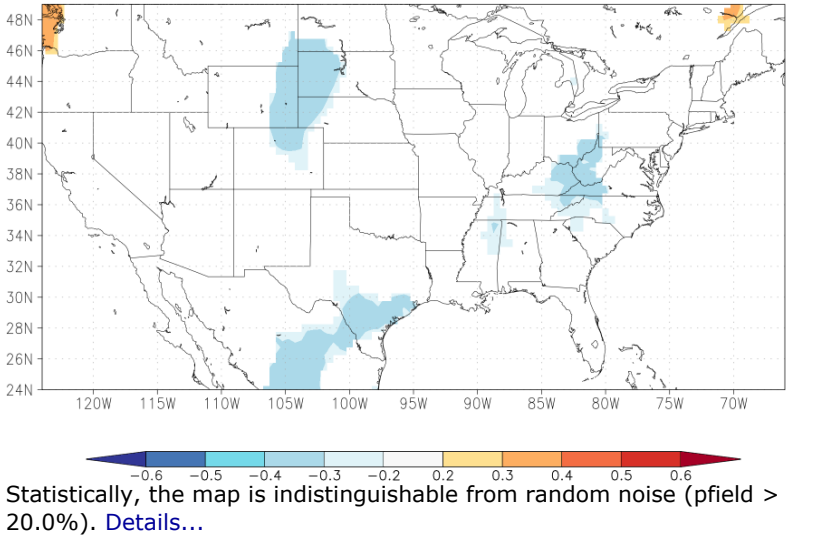
Statistically, there is maybe a significant connection in the map (p_{field} < 20.0%). Details...

corr Oct 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean anomalies with Oct CRU TS4.03 cloud fraction anomalies 1980:2017 p<10% (eps, pdf)



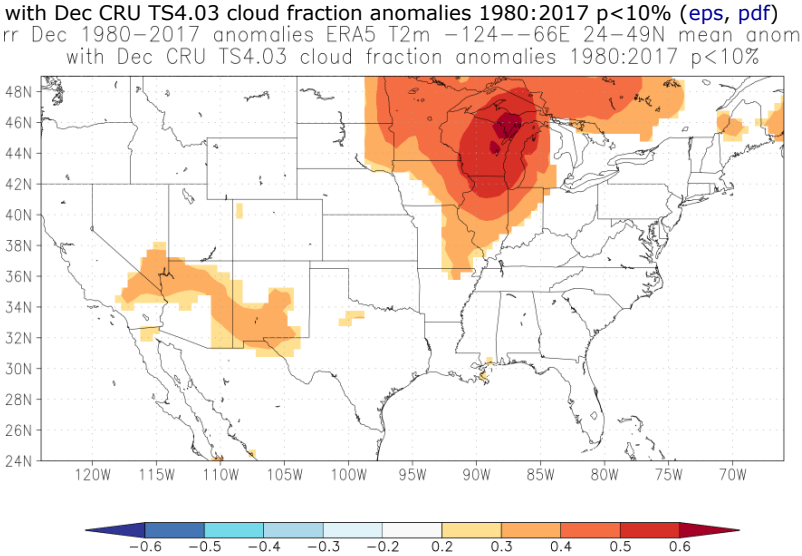
Statistically, there is maybe a significant connection in the map (p_{field} < 20.0%). Details...

corr Nov 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean anomalies with Nov CRU TS4.03 cloud fraction anomalies 1980:2017 p<10% (eps, pdf)



Statistically, the map is indistinguishable from random noise (pfield > 20.0%). Details...

corr Dec 1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean anomalies with Dec CRU TS4.03 cloud fraction anomalies 1980:2017 p<10% (eps, pdf)



Statistically, there is likely a significant connection in the map (p_{field} < 5.0%). Details...

Get the raw data as netcdf or (big) ascii file.

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

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

Contours: to mask out: p> 5 % logarithmic scale

Colours: blue-grey-red

Shading: ( ) shading and contours (•) shading ( ) contours ( ) grid boxes

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

label distance × ° or [ ] no labels

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

Replot

Generate a new field with the influence of 1980-2017 anomalies ERA5 T2m -124--66E 24-49N subtracted linearly

Submit