

Climate Explorer European Climate Assessment & Data KNMI

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Correlate time series with a field

1980-2017 anomalies ERA5 T2m -124--66E 24-49N mean

Observations

- Temperature 1850-now anomalies: HadCRUT4 median,
 1880-now anomalies: GISS 250km, 1200km
 1880-now anomalies: NOAA v5
 1850-now anomalies: HadCRUT4 , HadCRUT4/HadSST4 filled-in by Cowtan and Way
 1900-2018 anomalies: CMST
- Land 1850-2010 anomalies: CRUTEM4
 1880-now anomalies: GISS 250km, 1200km
 1880-now anomalies: NCDC v3.2.1
 1948-now: CPC GHCN/CAMS t2m analysis (land) 0.5°, 1.0°, 2.5°
 1901-2017: CRU TS 4.03 (land) 0.5°, 1.0°, 2.5°, #/value
 1750-now: Berkeley 1°
 1900-2018 5° homogenised anomalies: CL-SAT 1.3
 0.25° 1950-now: E-OBS v20.0e Tg (Europe)
 1895-now: PRISM 4km, PRISM 0.25°, (Contiguous US only)
 0.25° 1910-2016: ACORN-SAT v2 Tave (Australia)
- Tmax 1901-2017: CRU TS 4.03 (land) 0.5°, 1.0°, 2.5°, #/value
 1833-now: Berkeley 1°
 1900-2018 5° homogenised anomalies: CL-SAT 1.3
 0.25° 1950-now: E-OBS v20.0e Tx (Europe)
 1895-now: PRISM 4km, PRISM 0.25°, (Contiguous US only)
 0.25° 1910-2016: ACORN-SAT v2 Tmax (Australia)
 HadEX2 1901-2010 2.5° monthly: TXx, TXn, TX10p, TX90p, annual: TXx, TXn, TX10p, TX90p
- Tmin 1901-2017: CRU TS 4.03 (land) 0.5°, 1.0°, 2.5°, #/value
 1833-now: Berkeley 1°
 1900-2018 5° homogenised anomalies: CL-SAT 1.3
 0.25° 1950-now: E-OBS v20.0e Tn (Europe)
 1895-now: PRISM 4km, PRISM 0.25°, (Contiguous US only)
 0.25° 1910-2016: ACORN-SAT v2 Tmin (Australia)
 HadEX2 1901-2010 2.5° monthly: TNx, TNn, TN10p, TN90p, annual: TNx, TNn, TN10p, TN90p

Select a time series

- [Daily station data](#)
- [Daily climate indices](#)
- [Monthly station data](#)
- [Monthly climate indices](#)
- [Annual climate indices](#)
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Select a field

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- [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](#)
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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](#)
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- [Trends in return times of extremes](#)
- [Plot and fit distribution](#)

Tmax-Tmin	1901-2017: CRU TS 4.03 (land)	<input type="radio"/> 0.5°, <input type="radio"/> 1.0°, <input type="radio"/> 2.5°, <input type="radio"/> #/value	i
(DTR)			
SST	1870-now: HadISST1 1° reconstruction	<input type="radio"/>	i
	1854-now: NCDC v5 ERSST reconstruction, (<input type="radio"/> v4)	<input type="radio"/>	i
	1850-now: Hadley Centre 5° <input type="radio"/> HadSST4.0.0.0, <input type="radio"/> total uncertainty, <input type="radio"/> #obs	<input type="radio"/>	i
	1850-now: Hadley Centre HadSST3.1.1.0 5°	<input type="radio"/>	i
	1800-now: 2° ICOADS v2.5 SST, <input type="radio"/> number of obs	<input type="radio"/>	i
	1982-now: 1° NOAA ("Reynolds") OI v2 SST	<input type="radio"/>	i
	1982-now: 1/4° NOAA OI v2 SST, <input type="radio"/> anomalies	<input type="radio"/>	i
	1980-now: TAO buoys <input type="radio"/> SST, <input type="radio"/> Air Temperature	<input type="radio"/>	i
Air Temperature	1880-2010: HadNMAT2, <input type="radio"/> anomalies, <input type="radio"/> large-scale uncertainties, (1856-2002 <input type="radio"/> HadMAT1)	<input type="radio"/>	i
	1800-now: 2° ICOADS v2.5 Tair, <input type="radio"/> number of obs	<input type="radio"/>	i
Lower Troposphere	1979-now: Spencer & Christy MSU anomalies v6.0 (<input type="radio"/> v5.6)	<input type="radio"/>	i
	1978-now: RSS MSU 4.0 <input type="radio"/> TLT, <input type="radio"/> anomalies (<input type="radio"/> 3.3, <input type="radio"/> anomalies)	<input type="radio"/>	i
Precipitation	1901-2017: CRU TS 4.03 (land)	<input type="radio"/> 0.5°, <input type="radio"/> 1.0°, <input type="radio"/> 2.5°, <input type="radio"/> #/value	i
	0.25° 1950-now: E-OBS v20.0e precip (Europe)	<input type="radio"/>	i
	1900-now anomalies: NCDC analysis (land)	<input type="radio"/>	i
	1891-2016: GPCC V2018 analysis (land) <input type="radio"/> 2.5°, <input type="radio"/> 1.0°, <input type="radio"/> 0.5°, <input type="radio"/> 0.25°, only observations: <input type="radio"/> 2.5°, <input type="radio"/> 1.0°, <input type="radio"/> 0.5°, <input type="radio"/> 0.25°, number of gauges <input type="radio"/> 2.5°, <input type="radio"/> 1.0°, <input type="radio"/> 0.5°, <input type="radio"/> 0.25°	<input type="radio"/>	i
	1986-now: 1° GPCC monitoring product + first guess (land); <input type="radio"/> only observations, <input type="radio"/> number of gauges	<input type="radio"/>	i
	1900-now: home-merged 1° GPCC V2018 + monitoring product V6 + first guess (land); <input type="radio"/> 1°, <input type="radio"/> 2.5°, only observations: <input type="radio"/> 1°, <input type="radio"/> 2.5°	<input type="radio"/>	i
	1979-now: GPCP v2.3 analysis, <input type="radio"/> v2.2	<input type="radio"/>	i
	1979-now: CPC Merged Analysis of Precipitation, <input type="radio"/> with model	<input type="radio"/>	i
	1998-now: CMORPH 0.25° precipitation	<input type="radio"/>	i
	1983-now: <input type="radio"/> CAMSOP1, <input type="radio"/> percentage	<input type="radio"/>	i
	1895-now: <input type="radio"/> PRISM 4km, <input type="radio"/> PRISM 0.25°, (Contiguous US only)	<input type="radio"/>	i
	0.1° 1900-2014: CenTrends v1 (Greater Horn of Africa), <input type="radio"/> 0.25° 1900-now: extended with CHIRPS	<input type="radio"/>	i
HadEX2	1901-2010 2.5° monthly: <input type="radio"/> Rx1day, <input type="radio"/> Rx5day, annual: <input type="radio"/> Rx1day, <input type="radio"/> Rx5day, <input type="radio"/> R95p, <input type="radio"/> R99p	<input type="radio"/>	i
OLR	1979-now: UMD/NCEI OLR	<input type="radio"/>	i
Sea-level Pressure	use reanalysis data		
	1899-now: Trenberth's NH	<input type="radio"/>	i
	0.25° 1950-now: E-OBS v20.0e slp analysis (Europe)	<input type="radio"/>	i
	1800-now: 2° ICOADS v2.5 SLP (sea), <input type="radio"/> number of obs	<input type="radio"/>	i
	5° <input type="radio"/> 1850-2004: HadSLP 2.0, <input type="radio"/> 1850-now: HadSLP 2r (interpolated)	<input type="radio"/>	i
Surface Solar Radiation	2002-2012 <input type="radio"/> FRESCO v6 0.5° surface solar insolation, <input type="radio"/> 1°	<input type="radio"/>	i
Cloud cover	1901-2017: CRU TS 4.03 (land) <input checked="" type="radio"/> 0.5°, <input type="radio"/> 1°, <input type="radio"/> 2.5°, <input type="radio"/> #/value	<input checked="" type="radio"/>	i

<input type="radio"/> 1800-now: 2° ICOADS v2.5 cloud cover (sea),	<input type="radio"/> number of obs	i
2002-2012 <input type="radio"/> FRESCO v6 0.5° cloud fraction,	<input type="radio"/> 1°(<input type="radio"/> 1996-now: FRESCO+ 0.5° analysis SC-v5.2,	i
analysis SC-v5.2, <input type="radio"/> 1°)		
Cloud pressure	<input type="radio"/> 2002-now: FRESCO v6 0.5°, <input type="radio"/> 1°(<input type="radio"/> 1996-now: FRESCO+ 0.5° analysis SC-v5.2,	i
	<input type="radio"/> 1°)	
Snow cover	<input type="radio"/> 1966-now Rutgers University Global Snow Lab	i
Permafrost	1901-2001: annual northern hemisphere 1° NSIDC <input type="radio"/> freeze and <input type="radio"/> thaw depths (pseudo-monthly: <input type="radio"/> freeze <input type="radio"/> thaw)	i
Sea ice concentration	1978-now: NSIDC <input type="radio"/> Arctic, <input type="radio"/> Antarctic (home-interpolated from v01, pre, nrt) 1981-2013: GSFC <input type="radio"/> Arctic, <input type="radio"/> Antarctic bootstrap analysis v3	i
Sea ice cover	<input type="radio"/> 1870-now: HadISST1 1° <input type="radio"/> 1981-now: Reynolds OI v2	i
Ocean salinity:	1900-now UKMO EN4 analysis <input type="radio"/> surface, <input type="radio"/> 0-400m, <input type="radio"/> 0-700m, <input type="radio"/> 0-1000m, <input type="radio"/> 0-2000m	i
Sea surface height	Copernicus 1/4° 1993-2018 <input type="radio"/> sea-level anomalies, <input type="radio"/> dynamic topography, <input type="radio"/> u geostrophic current, <input type="radio"/> v geostrophic current <input type="radio"/> ESA CCI 1/4° 1993-2015	i
Heat content	NODC <input type="radio"/> 1955-now: 0-700m, <input type="radio"/> 2005-now: 0-2000m 1950-now: UKMO EN4 analysis <input type="radio"/> 0-400m, <input type="radio"/> 0-700m, <input type="radio"/> 0-1000m, <input type="radio"/> 0-2000m <input type="radio"/> 1958-2004: SODA 0-750m	i
Ocean mean temperature	NODC <input type="radio"/> 1955-now: 0-100m, <input type="radio"/> 0-700m, <input type="radio"/> 2005-now: 0-2000m	i
Gravity	2002-now: GRACE <input type="radio"/> land <input type="radio"/> ocean liquid water equivalent	i
Z20	1980-now: TAO buoys <input type="radio"/> z20, <input type="radio"/> heat content 1960-now: <input type="radio"/> POAMA/PEODAS reanalysis/analysis z20	i
Wind	<input type="radio"/> u, <input type="radio"/> v 1800-now: 2° ICOADS v2.5 (sea) <input type="radio"/> u, <input type="radio"/> v 1980-now: TAO buoys	i
Wind stress	<input type="radio"/> taux, <input type="radio"/> tauy 1800-1997: ICOADS v2.5 pseudostress <input type="radio"/> taux, <input type="radio"/> tauy 1980-now: TAO buoys	i
Wind speed	<input type="radio"/> 1800-1997: ICOADS v2.5 wind speed, <input type="radio"/> wind speed cubed	i
Tropical cyclones	1851-2005: 5°×5° <input type="radio"/> TS tracks, <input type="radio"/> TC tracks, <input type="radio"/> vmax, <input type="radio"/> PDI, 0.5°×0.5° <input type="radio"/> tropical storms within 160km, <input type="radio"/> tropical cyclones within 160km (Kerry Emanuel) <input type="radio"/> 1°×1°, <input type="radio"/> 0.2°×0.2° Tropical Cyclone Heat Potential (1994-2008, AOML)	i
Ozone concentration	<input type="radio"/> 1978-now: KNMI multi-sensor re-analysis + sciamachy <input type="radio"/> 1979-2007: TOMS analysis	i
Aerosol	<input type="radio"/> 1979-2005: TOMS aerosol index 1981-2006: GACP <input type="radio"/> aerosol optical depth, <input type="radio"/> Angstrom coefficient (sea)	i
Emissions	1980-2007: EMEP SO ₂ <input type="radio"/> 1°, <input type="radio"/> 2.5°, <input type="radio"/> 5° 1980-2007: EMEP NO _x <input type="radio"/> 1°, <input type="radio"/> 2.5°, <input type="radio"/> 5°	i
Vegetation index	1981-now <input type="radio"/> 0.1°, <input type="radio"/> 0.5° NOAA/NCEI CDR NDVI analysis, home-processed <input type="radio"/> 1981-2006: UMD GIMMS NDVI analysis	i
Drought		i

index	CRU self-calibrating PDSI	<input type="radio"/>	1901-2017 0.5° Global 3.26 early, <input type="radio"/>	1750-2003 5° Europe, <input type="radio"/>	<input type="radio"/>
	1800-2003 1/6° Alps	<input type="radio"/>			<input type="i"/>
1850-2014	UCAR Palmer Drought Severity Index	<input type="radio"/>	self-calibrating		<input type="i"/>
1901-2013:	CSIC SPEI drought index	<input type="radio"/> 1, <input type="radio"/> 3, <input type="radio"/> 4, <input type="radio"/> 6, <input type="radio"/> 8, <input type="radio"/> 12, <input type="radio"/> 16, <input type="radio"/> 24, <input type="radio"/> 36, <input type="radio"/> 48 months			<input type="i"/>
Soil moisture	CLM 1979-2016 ERA-interim	<input type="radio"/> 10cm, <input type="radio"/> 1m, <input type="radio"/> rain, <input type="radio"/> evapotranspiration, <input type="radio"/>			
	CLM 1979-2013 WFDEI	<input type="radio"/> 10cm, <input type="radio"/> 1m, <input type="radio"/> rain, <input type="radio"/> evapotranspiration, <input type="radio"/> potential evaporation			
	FLDAS 0.1 ° 1982-2018	<input type="radio"/> 0-10cm, <input type="radio"/> 0-40cm			<input type="i"/>
Runoff	<input type="radio"/> GRUN v1 ML reconstruction 1902-2014, ETHZ IAC				<input type="i"/>
Humidity	1895-now:	<input type="radio"/> PRISM 4km, <input type="radio"/> PRISM 0.25°, (Contiguous US only)			<input type="i"/>
Vapour	1901-2017: CRU TS 4.03 (land)	<input type="radio"/> 0.5°, <input type="radio"/> 1.0°, <input type="radio"/> 2.5°, <input type="radio"/> #/value pressure			<input type="i"/>
Max vapour pressure deficit	1895-now:	<input type="radio"/> PRISM 4km, <input type="radio"/> PRISM 0.25°, (Contiguous US only)			<input type="i"/>

Reanalyses**show/hide ERA-interim 1979-2019**

variable \ level	surface	2m/10m	850mb	700mb	500mb	300mb	200mb	zonal
slp/height	<input type="radio"/>		<input type="radio"/>					
temperature	<input type="radio"/>							
min/max 2m temperature	<input type="radio"/>	<input type="radio"/>						
zonal wind(stress)	<input type="radio"/>							
meridional wind(stress)	<input type="radio"/>							
wind speed/vertical velocity		<input type="radio"/>						
latent/sensible heat flux / humidity	<input type="radio"/>							
column water vapour / relative humidity	<input type="radio"/>		<input type="radio"/>					
P-E / surface humidity / evap / pot evap	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>				
precipitation/ t2m+SST	<input type="radio"/>	<input type="radio"/>						
surface net solar/longwave radiation	<input type="radio"/>	<input type="radio"/>						
surface net turbulent/all heat flux	<input type="radio"/>	<input type="radio"/>						
sea ice / snow depth	<input type="radio"/>	<input type="radio"/>						

show/hide ERA5 1979-"now"**earlier data will become available later**

variable \ level	surface	2m/10m	850mb	700mb	500mb	300mb	200mb	zonal
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slp/height	○	○	○	○	○	○
temperature	○	○	○	○	○	○
min/max 2m temperature	○	○				
zonal wind(stress)	○	○	○	○	○	○
meridional wind(stress)	○	○	○	○	○	○
wind speed/vertical velocity	○	○	○	○	○	○
latent/sensible heat flux / humidity	○	○	○	○	○	○
column water vapour / relative humidity	○	○	○	○	○	○
P-E / surface humidity / evap		○				
precipitation/ t2m+SST	○					
surface net solar/longwave radiation	○	○				
surface net turbulent/all heat flux	○	○				
sea ice / snow water equivalent	○	○				

show/hide NASA MERRA-2 1980-"now"[\[i\]](#)

variable \ level	surface	2m/10m	850mb	700mb	500mb	300mb	200mb	zonal
slp/height	○		○	○	○	○	○	○
temperature	○	○	○	○	○	○	○	○
zonal wind(stress)	○	○	○	○	○	○	○	○
meridional wind(stress)	○	○	○	○	○	○	○	○
wind speed/vertical velocity	○	○	○	○	○	○	○	○
latent/sensible heat flux / humidity	○	○	○	○	○	○	○	○
P-E/relative humidity	○							
precipitation/ t2m+SST	○	○						
surface net solar/longwave radiation	○	○						

show/hide NCEP CFSR 1979-2010[\[i\]](#)

variable \ level	surface	2m/10m	850mb	700mb	500mb	300mb	200mb
slp/height	○		○	○	○	○	○
temperature	○	○	○	○	○	○	○

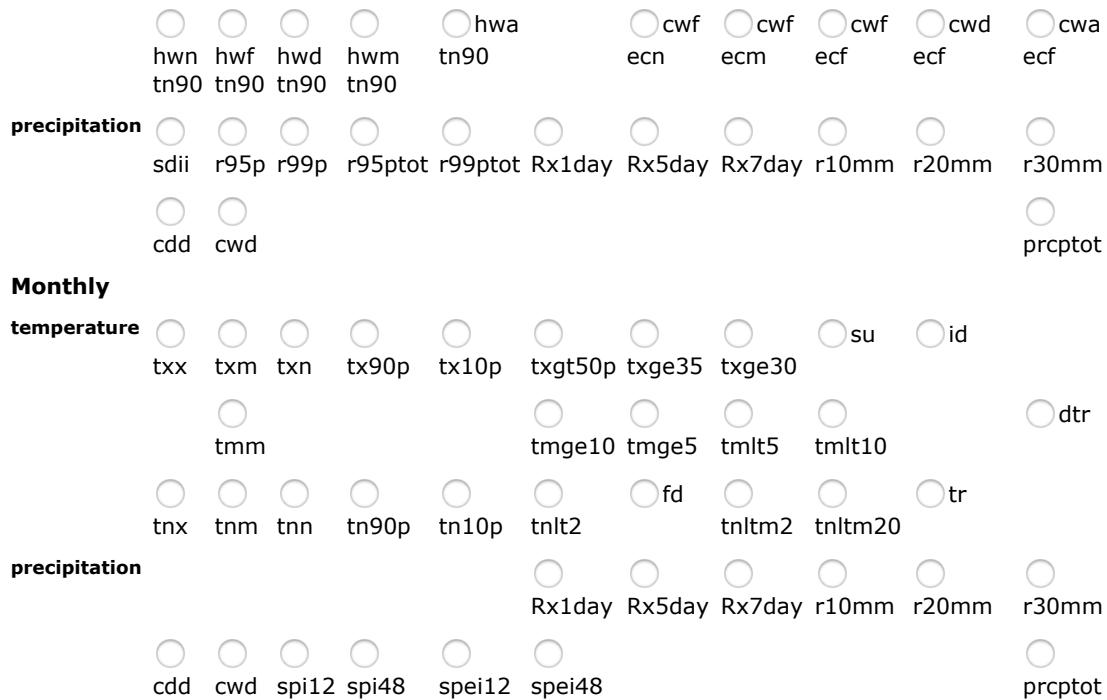
min/max 2m temperature							
zonal wind(stress)							
meridional wind(stress)							
wind speed/vertical velocity							
latent/sensible heat flux / humidity							
P-E/relative humidity							
precipitation							
surface net solar/longwave radiation							
TOA net solar/longwave radiation							

show/hide JRA-55 1958-now

variable \ level	surface	2m/10m	850mb	700mb	500mb	300mb	200mb
slp/height							
temperature							
min/max 2m temperature							
zonal wind(stress)							
meridional wind(stress)							
wind speed/vertical velocity							
latent/sensible heat flux / humidity							
surface downwelling solar/longwave radiation							
surface upwelling solar/longwave radiation							

show/hide ETCCDI/ET-SCI extreme indices from GLDAS, [list of abbreviations](#)**Annual**

temperature	ttx	txm	txn	tx90p	tx10p	txgt50p	txge35	txge30	su	id
										dtr
	tmm					tmge10	tmge5	tmlt5	tmlt10	tx3tn3
	tnx	tnm	tnn	tn90p	tn10p	tr	tnlt2	fd	tnltm2	tnltm20
	gsl	gdd	wsdi	wsdi5		csdi	csdi5			txb3tnb3
	hwn	hwf	hwd	hwm	hwa	tx90	ehf	hwf	hwd	hwm
	tx90	tx90	tx90	tx90			ehf	ehf	ehf	ehf

[i](#)

variable \ level	surface	2m/10m	850mb	700mb	500mb	300mb	200mb
slp/height	○		○	○	○	○	○
temperature	○	○	○	○	○	○	○
zonal wind(stress)	○	○	○	○	○	○	○
meridional wind(stress)	○	○	○	○	○	○	○
wind speed/vertical velocity	○		○	○	○	○	○
curl wind stress / horizontal divergence	○	○	○	○	○	○	○
stream function		○	○	○	○	○	○
vertical shear			○	○	○	○	○
latent heat flux/humidity	○		○	○	○		
soil moisture/P-E/relative humidity	○	○	○	○	○		
precipitation / sensible heat flux / OLR	○	○				○	
surface net solar/longwave radiation	○	○					
net surface heat flux / 2-7 day variance height	○			○		○	

[i](#)**show/hide Twentieth Century Reanalysis V2c 1851-2011**

variable \ level	surface	2m/10m	850mb	700mb	500mb	300mb	200mb
slp/height	○		○	○	○	○	○
temperature							

min/max 2m temperature							
zonal wind(stress)							
meridional wind(stress)							
wind speed							
latent heat flux / sensible heat flux / humidity							
soil moisture / evaporation / relative humidity							
precipitation / P-E							
surface net solar/longwave radiation							

show/hide Twentieth Century Reanalysis V3 1836-2015**i**

variable \ level	surface	2m/10m	850mb	700mb	500mb	300mb	200mb
slp/height							
temperature							
min/max 2m temperature							
zonal wind							
meridional wind							
latent heat flux / sensible heat flux / humidity							
soil moisture / relative humidity							
precipitation / evaporation / P-E / OLR							
surface downward solar / upward longwave radiation							
ice / snow							

**show/hide ERA-20C 1900-2010
Just a few fields for now****i**

variable \ level	surface	2m/10m	850mb	700mb	500mb	300mb	200mb
slp/height							
temperature							
min/max 2m temperature							
zonal wind(stress)							

- meridional wind(stress)
- latent heat flux / sensible heat flux / humidity
- soil moisture / evaporation / relative humidity
- precipitation / P-E
- surface net solar/longwave radiation

user-defined:

- SST zonal mean HadISST1 (HadISST_sst_zonalmean)
- SST/T2m anom zonal mean NOAA v5 (NOAAGlobalTemp_v5.0.0_gridded_zonalmean)
- sic IPSL-CM5B-LR rcp45 ens0 (cmip5_sic_OImon_IPSL-CM5B-LR_rcp45.0)
- tos CSIRO-Mk3-6-0 rcp26 ens0 (cmip5_tos_Omon_CSIRO-Mk3-6-0_rcp26.0)
- tos GFDL-CM3 historical ens0 (cmip5_tos_Omon_GFDL-CM3_historical.0)
- tos GFDL-ESM2G historical ens0 (cmip5_tos_Omon_GFDL-ESM2G_historical.0)
- tos HadGEM2-ES historical ens0 (cmip5_tos_Omon_HadGEM2-ES_historical.0)
- tos HadGEM2-ES rcp45 ens0 (cmip5_tos_Omon_HadGEM2-ES_rcp45.0)
- tos HadGEM2-ES rcp45 ens1 (cmip5_tos_Omon_HadGEM2-ES_rcp45.1)
- T2m zonal mean ERA5 (era5_t2m_zonalmean)
- T2m zonal mean ERA-int+ (era1_t2m_extended_zonalmean)
- evspbsl modmean30 rcp26_95-141E_-11-6N (evspbsl_Amon_modmean_rcp26_%%_95-141E_-11-6N)
- precipitation zonal mean GPCC+ (gpcc_10_combined_zonalmean)
- tas mean modmean39 rcp85 (mean_cmip5_tas_Amon_modmean_rcp85)
- precipitation zonal mean NCEP/NCAR (prate.sfc.mon.mean_zonalmean)
- psl modmean32 rcp26_95-141E_-11-6N (psl_Amon_modmean_rcp26_%%_95-141E_-11-6N)
- 500mb humidity NCEP/NCAR_-30-90E_-20-20N (q500_-30-90E_-20-20N)
- 700mb humidity NCEP/NCAR_-30-90E_-20-20N (q700_-30-90E_-20-20N)
- SLP NCEP/NCAR_-30-90E_-20-20N (slp.mon.mean_-30-90E_-20-20N)
- SLP NCEP/NCAR_-40--10E_-20--40N (slp.mon.mean_-40--10E_-20--40N)
- snowcover zonal mean Rutgers (snow_rucl_zonalmean)
- SST ICOADS v2.5 1yr high-pass (sst.mean_1yr_high-pass_box)

Plot options

Variable: correlation covariance significance
 regression (error) reverse relative regression
 composite (error)
extreme dependence measures x, xbar, threshold %

Demand at least % valid points

Map type: default projection [i](#)
Region: 24 °N to 49 °N, -124 °E to -66 °E in a lat-lon plot [i](#)
Contours: to mask out : p> % logarithmic scale [i](#)
Colours: blue-grey-red [i](#)
Shading: shading and contours shading contours grid boxes [i](#)
Plot options: no color bar no title on plot, no grid no political boundaries [i](#)
label distance x ° or no labels

Output to: browser Google Earth (kml) GIS (geotiff) [i](#)
Units: convert to standard units use original units [i](#)

Options

Starting month: of [i](#)

Season: averaging over month(s) of the timeseries same month(s) of the field, [i](#)

Anomalies: subtract seasonal cycle [i](#)

Lag: months
(lag positive: mean 1980-2017 anomalies ERA5 T2m -124--66E 24-49N lagging field) [i](#)

Years: - [i](#)

Only for: < field selected above < [i](#)

< mean 1980-2017 anomalies ERA5 T2m -124--66E 24-49N < [i](#)

Apply: logarithm, sqrt to mean 1980-2017 anomalies ERA5 T2m -124--66E 24-49N [i](#)

Output: rank correlation [i](#)

Detrend: detrend everything [i](#)

Filters: take year-on-year differences [i](#)

subtract mean of previous years [i](#)

Running correlation: [show/hide running correlation options](#)

Fit: straight line, parabola, [i](#)

Correlate

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