List of calculated indicators Birmingham (June 2025)

Туре	Indicator	Description	over a			Units	Name of Python
			month	season	year	Units	function
PRECIP	Wet days > 10mm	The number of days with daily precipitation > 10mm	Х	Х	Х	days	wetdays()
PRECIP	Wet days > 30mm	The number of days with daily precipitation > 30mm	Х	Х	Х	days	wetdays()
PRECIP	Consecutive wet days	The longest number of consecutive days with daily precipitation > 1mm	Х	Х	Х	days	cwd()
PRECIP	Consecutive dry days	The longest number of consecutive days with daily precipitation < 1mm	Х	Х	Х	days	cdd()
PRECIP	Total precipitation	Total accumulated precipitation	Х	Х	Х	mm	prcptot()
PRECIP	Maximum daily precipitation	Maximum 1-day total precipitation	Х	Х	Х	mm/day	rx1day()
PRECIP	SPI	Standardized Precipitation Index, additionally calculates the probability of zero	Х			1	spi()
TEMP	Max daily Tmax	Maximum of daily maximum temperature	Х	Х	Х	°C	txx()
TEMP	Min daily Tmax	Minimum of daily maximum temperature	Х	Х	Х	°C	txn()
TEMP	Summer days	The number of days where maximum temperature > 25°C	Х	Х	Х	1	<pre>hot_spell_frequency()</pre>
TEMP	Hot days	The number of days where maximum temperature > 30°C	Х	Х	Х	1	<pre>hot_spell_frequency()</pre>
TEMP	Heatwave spell	The number of spells where maximum temperature > 27°C for 3 consecutive days	Х	Х	Х	1	hot_spell_frequency()
TEMP	Tropical nights	The number of days where minimum temperature > 20°C	Х	Х	Х	days	<pre>tropical_nights()</pre>
VEG	Length of growing season	Number of days between the first occurrence of 6 consecutive days with a daily average temperature > 5°C and the first occurrence of 6 consecutive days with a daily average temperature < 5°C, occurring after a 1 st July			Х	days	<pre>growing_season_length()</pre>
VEG	Growing degree days	Number of growing degree days, calculated according to Baker et al. (1980) using daily minimum and maximum temperature			Х	1	gdd_baker()

The units of the input data can be any precipitation unit for the precipitation data and any temperature unit for the temperature data. Tested with input units "kg m-2 s-1" and "K".

The temporal resolution of the input data can be daily or sub daily. Tested with hourly data.