Time Series Analisys on Geoespatial Data with Python

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Chapter 7 - Time Series Smoothing and Filtering

Smoothing a time series removes certain frequencies or components to gain insight into the underlying structure of the time series. For example, we want to remove noise to emphasize the signal in the time series before we begin our analysis. Removing noise improves the quality of our data and, in turn, the results of our analysis. Think of the famous saying "garbage in, garbage out."

Data smoothing is nothing more than averaging data points with their neighbors in a time series, resulting in a blur of sharp edges in our time series. Therefore, data smoothing is similar to filtering, where high frequencies are suppressed to extract low-frequency signals. In doing so, we generate a new smoothed data point for each data point in the time series.

To smooth our time series, we can choose between different approaches, which mainly differ in how the mean around a data point is calculated. The most commonly used approaches are:

- Moving Average
- Kernel Smoothing
- (Single, Double, Triple) Exponential Smoothing

Which approach we choose depends on the amount of noise and the components, such as trend and seasonality, in our time series.

Moving statistics

Moving or continuous statistics are computed by sliding a window of a given size over the original time series and aggregating the data for each window. This is also known as convolution over time index. The two important parameters of the convolution operation are the window size and the stride length. The former defines the number of time units taken as input to the aggregate function, while the latter defines the gap over the time index between each computation. For example, suppose a window size of k and a stride length I are used to compute the function f over a time series x1,x2, ..., xn having N observations. In this scenario, the moving statistic is obtained as f(x1,x2, ..., xt), f(x1+I,x2+I, ..., xt+I) and so on. Note that each time the function is computed by shifting the time window to the right by I time units.

Moving Average

The Moving Average is the easiest approach we can use. Within a fixed-length Sliding Window, all data points are averaged with the same weighting.

The approach is well suited for data with little noise and for highlighting long-term trends. However, the Moving Average cannot capture seasonality and should therefore not be used for time series with complex seasonality and non-linearity. Furthermore, the approach cannot calculate values at the beginning and/or end of the time series, depending on whether a one-sided or two-sided Moving Average is calculated.

The Sliding Window is placed around a data point and the values within the window are averaged before the window is slid to the next data point. This is repeated until the time series is smoothed. The degree of smoothing is determined by the width of the Sliding Window. The wider the window, the stronger the smoothing.

Let's extract a time series from the GEE:

```
In []: import ee
   import matplotlib.pyplot as plt
   import numpy as np
   import pandas as pd
   import geemap

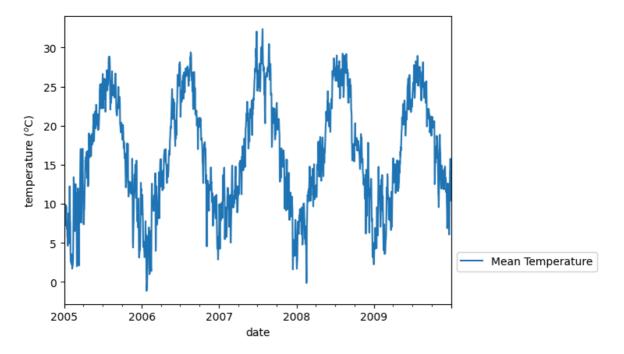
In []: ee.Authenticate()
   ee.Initialize(project='my-project-1527255156007')

In []: coordinates = np.array([ 23.5544698, 40.025684])
   x = float(coordinates[0])
   y = float(coordinates[1])
In []: date_start = '2005-01-01'
   date_end = '2010-01-01'
```

Let's get air temperature values from the ERA5 database:

```
In [ ]: location_point = ee.Geometry.Point(x, y)
        gre= ee.ImageCollection("ECMWF/ERA5/DAILY").select('mean_2m_air_temperature').fi
In [ ]: data= gre.getRegion(location_point, 27830).getInfo()
        data=pd.DataFrame(data,columns=data[0])
        data = data.drop(0, axis=0)
        Let's get a DataFrame and display our time series:
In [ ]: data['mean_2m_air_temperature']=data['mean_2m_air_temperature'].astype('float')
        data['mean_2m_air_temperature']=data['mean_2m_air_temperature'].apply(lambda x:
        data['date'] = pd.to_datetime(data['id'], format='%Y%m%d')
        data.set_index("date", inplace=True)
        data.head()
Out[ ]:
                      id longitude
                                      latitude
                                                       time mean_2m_air_temperature
          date
         2005-
                20050101 23.625108 40.125184 1104537600000
                                                                             7.851562
         01-01
         2005-
                20050102 23.625108 40.125184 1104624000000
                                                                             7.653076
         01-02
         2005-
                20050103 23.625108 40.125184 1104710400000
                                                                             7.288391
         01-03
         2005-
                20050104 23.625108 40.125184 1104796800000
                                                                             7.175964
         01-04
         2005-
                20050105 23.625108 40.125184 1104883200000
                                                                             9.686920
         01-05
In [ ]:
        data = data.drop(columns=['id', 'longitude', 'latitude', 'time'])
In [ ]: import matplotlib.pyplot as plt
        data.mean_2m_air_temperature.plot(label='Mean Temperature')
        plt.ylabel('temperature ($^o$C)')
        plt.legend(loc='upper left', bbox to anchor=(1, 0.2))
```

Out[]: <matplotlib.legend.Legend at 0x7f72f625a590>

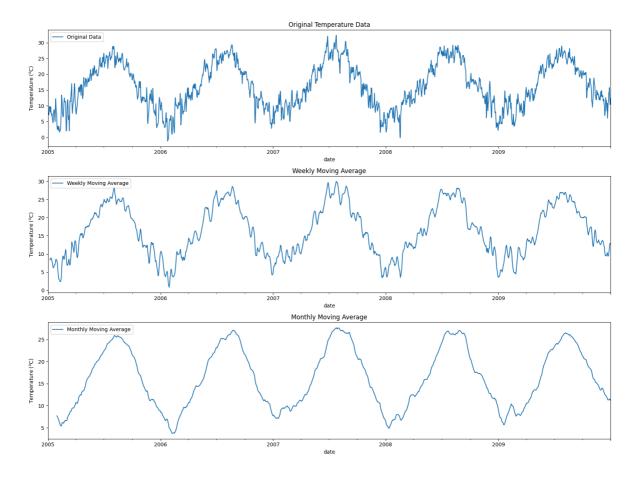


Let's apply the weekly and monthly moving average:

```
In [ ]: weekly_moving_average = data['mean_2m_air_temperature'].rolling(7).mean()
In [ ]: monthly_moving_average = data['mean_2m_air_temperature'].rolling(30).mean()
```

Let's use matplotlib to visualize the two transformations:

```
In [ ]:
        plt.figure(figsize=(16, 12))
        plt.subplot(3, 1, 1)
        data['mean_2m_air_temperature'].plot(label='Original Data')
        plt.ylabel('Temperature ($^o$C)')
        plt.legend(loc='upper left')
        plt.title('Original Temperature Data')
        plt.subplot(3, 1, 2)
        weekly_moving_average.plot(label='Weekly Moving Average')
        plt.ylabel('Temperature ($^o$C)')
        plt.legend(loc='upper left')
        plt.title('Weekly Moving Average')
        plt.subplot(3, 1, 3)
        monthly_moving_average.plot(label='Monthly Moving Average')
        plt.ylabel('Temperature ($^o$C)')
        plt.legend(loc='upper left')
        plt.title('Monthly Moving Average')
        plt.tight_layout()
        plt.show()
```



Kernel Smoothing

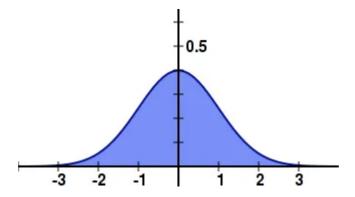
Kernel Smoothing is very similar to Moving Average. The only difference is that we use different weights for the average in Sliding Window. The weights depend on the format of the kernel function. Due to the similarity with Moving Average, the advantages and disadvantages are also similar.

The width of the Sliding Window can be defined based on the Full Width at Half Maximum (FWHM). This cuts off the tails of the kernel that have values less than half the maximum height of the curve.

Often, a Gaussian kernel is used, which represents a Gaussian distribution. This gives a higher weight to data points that are close to the data point around which we want to smooth the time series.

Gaussian Kernel

Kernels define the shape of the function used to average neighboring points. The Gaussian kernel has the shape of the Gaussian curve. The Gaussian curve has the following shape:



As seen in the Gaussian curve, points close to (around 0 on the curve above) will have higher weighting and points further away will have lower weighting.

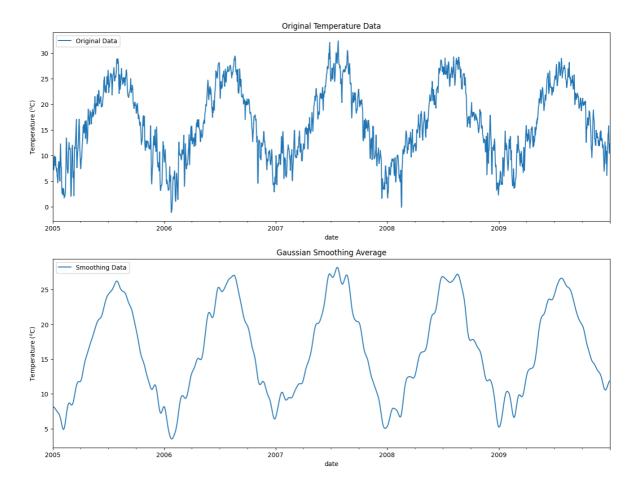
Let's plot the original data with the smoothed data:

```
In [ ]: plt.figure(figsize=(16, 12))

plt.subplot(2, 1, 1)
data['mean_2m_air_temperature'].plot(label='Original Data')
plt.ylabel('Temperature ($^o$C)')
plt.legend(loc='upper left')
plt.title('Original Temperature Data')

plt.subplot(2, 1, 2)
data['smoothed_temperature'].plot(label='Smoothing Data')
plt.ylabel('Temperature ($^o$C)')
plt.legend(loc='upper left')
plt.title('Gaussian Smoothing Average')
```

Out[]: Text(0.5, 1.0, 'Gaussian Smoothing Average')



Exponential Smoothing

Since Moving Average and Kernel Smoothing cannot capture complex non-linearity and cannot calculate values at the beginning and/or end of the time series, Exponential Smoothing was developed.

Here, all past observations are weighted based on an exponentially decreasing function. For this, no Sliding Window is used and more recent data points are given a higher weight than those further back in the past.

Similar to Moving Average and Kernel Smoothing, a challenging part of smoothing is choosing the right smoothing factors and model hyperparameters. This can be done manually or through optimization.

We can choose between three types, which differ in which components of the time series they can handle: Single, Double, and Triple Exponential Smoothing. Below, the three types are ordered by their complexity, starting with the simplest.

Simple Exponential Smoothing

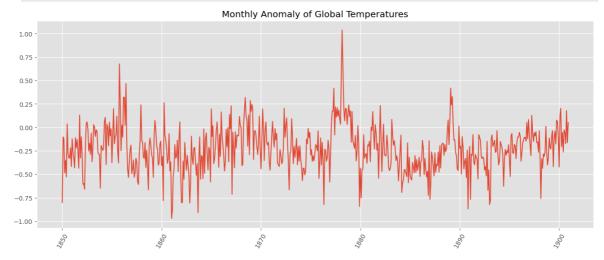
Single exponential smoothing can be used for stationary time series that do not have a trend or seasonality.

Smoothing is controlled by a smoothing factor α . The smoothing factor can vary between 0 and 1 and controls the exponential decay of the weights. The higher the

smoothing factor, the lower the weight for past data points and therefore the lower the smoothing.

```
In [ ]: from google.colab import drive
        drive.mount('/content/drive')
       Mounted at /content/drive
        import pandas as pd
In [ ]:
        import matplotlib.pyplot as plt
        Let's use our global temperature history dataset:
        Link to Dataset:
        https://drive.google.com/file/d/10omy6A3pjEAbQzlSjglvSkpiCpBpx3A_/view?
        usp=drive link
        path = '/content/drive/MyDrive/Datasets_TS/Global Temperature.csv'
In [ ]:
        df = pd.read_csv(path)
In [ ]:
In [ ]:
        df.head()
Out[]:
                                                                   Five- Five-
                                                                                         Ten
                                                                                Ten-Year
                          Monthly Monthly
                                               Annual Annual
            Year Month
                                                                   Year
                                                                         Year
                                                                                         Yea
                          Anomaly
                                                                               Anomaly
                                       Unc. Anomaly
                                                          Unc
                                                               Anomaly
                                                                         Unc.
                                                                                         Unc
           1850
                       1
                            -0.801
                                      0.482
                                                 NaN
                                                         NaN
                                                                   NaN
                                                                         NaN
                                                                                   NaN
                                                                                         Nal
            1850
                            -0.102
                                       0.592
                                                 NaN
                                                         NaN
                                                                   NaN
                                                                         NaN
                                                                                   NaN
                                                                                         Nal
           1850
                       3
                            -0.119
                                      0.819
                                                 NaN
                                                         NaN
                                                                   NaN
                                                                         NaN
                                                                                   NaN
                                                                                         Nal
           1850
                            -0.485
                                       0.575
                                                 NaN
                                                         NaN
                                                                          NaN
                                                                                   NaN
                                                                                         Nal
                                                                   NaN
                       5
           1850
                            -0.351
                                      0.549
                                                 NaN
                                                         NaN
                                                                   NaN
                                                                         NaN
                                                                                   NaN
                                                                                         Nal
        df.rename(columns={' Month': 'Month'}, inplace=True)
In [ ]:
        df['Date'] = pd.to_datetime(df.Year.astype(str) + '/' + df.Month.astype(str) +
In [ ]:
        df.set_index('Date', inplace=True)
In [ ]:
        We will only select data up to the year 1900:
        df_1900 = df[:'1900'].copy()
In [ ]:
In [ ]: plt.figure(figsize=(16,6))
        plt.style.use("ggplot")
        plt.plot(df_1900.index, df_1900['Monthly Anomaly'])
        plt.title('Monthly Anomaly of Global Temperatures')
```

```
plt.xticks(rotation=60)
plt.show()
```



```
In [ ]: from statsmodels.tsa.api import SimpleExpSmoothing
    smoother = SimpleExpSmoothing(df_1900['Monthly Anomaly'])
    smoothed_time_series = smoother.fit(smoothing_level=0.1, optimized=False).fitted
```

/usr/local/lib/python3.11/dist-packages/statsmodels/tsa/base/tsa_model.py:473: Va lueWarning: No frequency information was provided, so inferred frequency MS will be used.

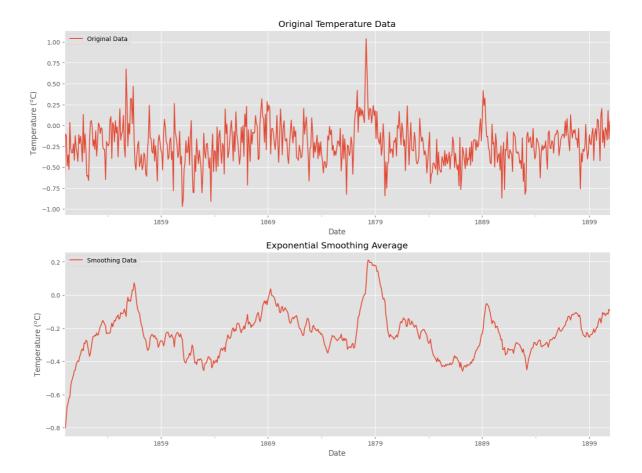
self._init_dates(dates, freq)

```
In [ ]: plt.figure(figsize=(16, 12))

plt.subplot(2, 1, 1)
    df_1900['Monthly Anomaly'].plot(label='Original Data')
    plt.ylabel('Temperature ($^o$C)')
    plt.legend(loc='upper left')
    plt.title('Original Temperature Data')

plt.subplot(2, 1, 2)
    smoothed_time_series.plot(label='Smoothing Data')
    plt.ylabel('Temperature ($^o$C)')
    plt.legend(loc='upper left')
    plt.title('Exponential Smoothing Average')
```

Out[]: Text(0.5, 1.0, 'Exponential Smoothing Average')



Double Exponential Smoothing

Double Exponential Smoothing extends Single Exponential Smoothing by repeating the smoothing. This allows the trend of a time series to be captured while the seasonality is not captured.

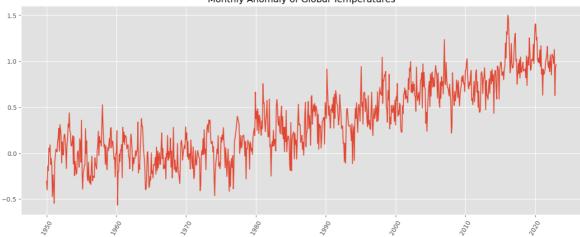
To achieve this, another smoothing factor β is added that controls the smoothing of the trend. Similar to α , β can range between 0 and 1 and controls the exponential decay of the weights.

Since the trend can be additive (i.e. a linear trend) or multiplicative (i.e. an exponential trend), smoothing and its implementation in Python differ slightly. Therefore, before we apply Double Exponential Smoothing, we need to identify what type of trend is present in the time series.

Let's now get the data from 1950 onwards and apply Holt smoothing:

```
In [ ]: df_1950 = df['1950':].copy()

In [ ]: plt.figure(figsize=(16,6))
    plt.style.use("ggplot")
    plt.plot(df_1950.index, df_1950['Monthly Anomaly'])
    plt.title('Monthly Anomaly of Global Temperatures')
    plt.xticks(rotation=60)
    plt.show()
```



```
In [ ]: from statsmodels.tsa.api import Holt

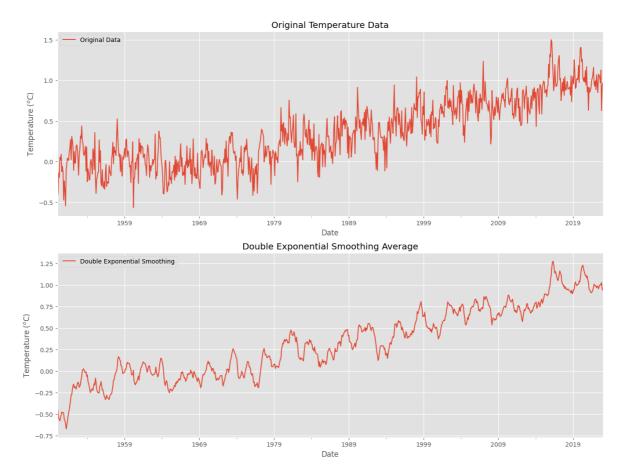
smoother = Holt(df_1950['Monthly Anomaly'])
smoothed_double_exp = smoother.fit(smoothing_level=0.2, smoothing_trend=0.02, op

/usr/local/lib/python3.11/dist-packages/statsmodels/tsa/base/tsa_model.py:473: Va
lueWarning: No frequency information was provided, so inferred frequency MS will
be used.
    self._init_dates(dates, freq)
```

```
In [ ]: plt.figure(figsize=(16, 12))

plt.subplot(2, 1, 1)
    df_1950['Monthly Anomaly'].plot(label='Original Data')
    plt.ylabel('Temperature ($^o$C)')
    plt.legend(loc='upper left')
    plt.title('Original Temperature Data')

plt.subplot(2, 1, 2)
    smoothed_double_exp.plot(label='Double Exponential Smoothing')
    plt.ylabel('Temperature ($^o$C)')
    plt.legend(loc='upper left')
    plt.title('Double Exponential Smoothing Average')
    plt.show()
```



Triple Exponential Smoothing

Triple Exponential Smoothing is the most sophisticated exponential smoothing method. The method can capture both the trend and seasonality of a time series. The approach is also called Holt-Winters Exponential Smoothing.

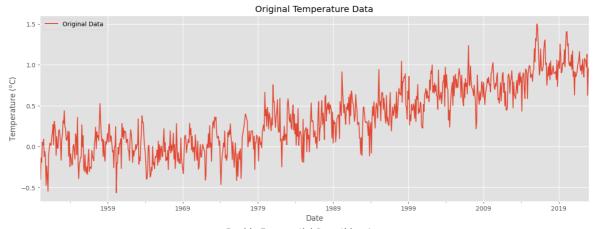
For this, another smoothing factor γ is added to capture seasonality. Similar to trend, seasonality can be additive or multiplicative.

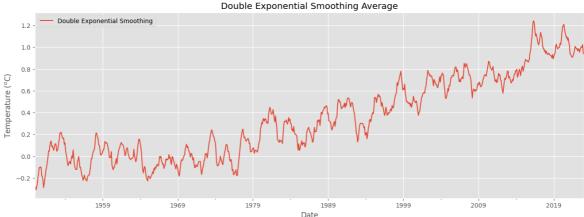
from statsmodels.tsa.api import ExponentialSmoothing

```
smoother = ExponentialSmoothing(df_1950['Monthly Anomaly'])
        smoothed_triple_exp = smoother.fit(smoothing_level=0.2, smoothing_trend=0.02, sm
       /usr/local/lib/python3.11/dist-packages/statsmodels/tsa/base/tsa_model.py:473: Va
       lueWarning: No frequency information was provided, so inferred frequency MS will
       be used.
         self._init_dates(dates, freq)
In [ ]: plt.figure(figsize=(16, 12))
        plt.subplot(2, 1, 1)
        df_1950['Monthly Anomaly'].plot(label='Original Data')
        plt.ylabel('Temperature ($^o$C)')
        plt.legend(loc='upper left')
        plt.title('Original Temperature Data')
        plt.subplot(2, 1, 2)
        smoothed_triple_exp.plot(label='Double Exponential Smoothing')
        plt.ylabel('Temperature ($^o$C)')
        plt.legend(loc='upper left')
```

In []:







Convolutional Filters

Convolutional smoothing is a technique used to smooth time series data by applying a mathematical function within a sliding window. The following are the different types of windows used in convolutional smoothing:

- Constant/Unitary Window: Each point in the window has an equal weight.
- Hanning Window: Weights are calculated using a cosine function, giving more weight to points in the middle of the window.
- Hamming Window: Similar to the Hanning window, but with weight calculations adjusted to minimize disturbances.
- Bartlett Window: A triangle-shaped window, with weights decreasing linearly towards the center.
- Blackman Window: Uses cosine functions to enhance frequency component analysis.

In []: !pip install tsmoothie

```
Collecting tsmoothie

Downloading tsmoothie-1.0.5-py3-none-any.whl.metadata (6.9 kB)

Requirement already satisfied: numpy in /usr/local/lib/python3.11/dist-packages (from tsmoothie) (2.0.2)

Requirement already satisfied: scipy in /usr/local/lib/python3.11/dist-packages (from tsmoothie) (1.15.3)

Collecting simdkalman (from tsmoothie)

Downloading simdkalman-1.0.4-py2.py3-none-any.whl.metadata (1.2 kB)

Downloading tsmoothie-1.0.5-py3-none-any.whl (22 kB)

Downloading simdkalman-1.0.4-py2.py3-none-any.whl (11 kB)

Installing collected packages: simdkalman, tsmoothie

Successfully installed simdkalman-1.0.4 tsmoothie-1.0.5
```

Let's apply our smoothing with convolutional kernels to the data from 1950 onwards:

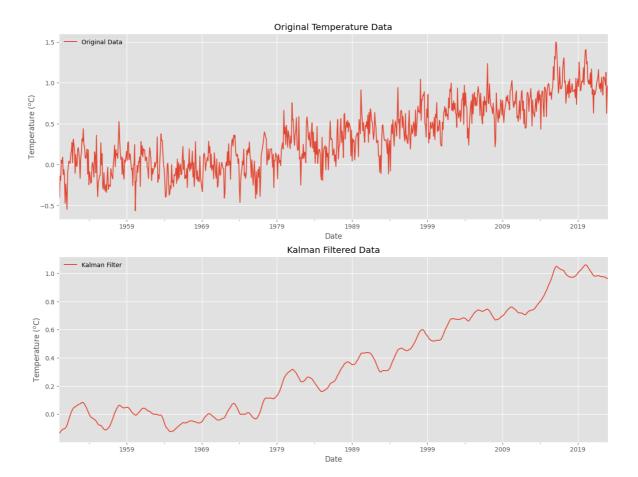
```
from tsmoothie.smoother import ConvolutionSmoother
         Smoother = ConvolutionSmoother(window_len=20, window_type='ones')
         Smoother.smooth(df_1950['Monthly Anomaly'])
         <tsmoothie.smoother.ConvolutionSmoother>
         df_1950['Conv Smooth Monthly Anomaly'] = Smoother.smooth_data[0]
In [ ]:
         plt.figure(figsize=(13,5))
In [ ]:
         plt.plot(df_1950['Conv Smooth Monthly Anomaly'], c='orange')
Out[ ]: [<matplotlib.lines.Line2D at 0x7f72e2cfd6d0>]
        1.0
        0.8
        0.6
        0.2
        0.0
       -0.2
                                            1980
                                                                           2010
             1950
                       1960
                                  1970
                                                      1990
                                                                 2000
                                                                                      2020
```

Kalman Filter

Kalman filtering is a technique used to estimate how a data point in a series evolves over time, even when the measurements are noisy. It predicts the next state based on a model and then refines the prediction using actual measurements. This process consists of two main steps: predicting the state and then correcting it. By doing this, Kalman filtering reduces measurement error and makes estimates more accurate.

```
In [ ]: !pip install pykalman
```

```
Collecting pykalman
         Downloading pykalman-0.10.1-py2.py3-none-any.whl.metadata (9.5 kB)
       Requirement already satisfied: numpy<3 in /usr/local/lib/python3.11/dist-packages
       (from pykalman) (2.0.2)
       Requirement already satisfied: packaging in /usr/local/lib/python3.11/dist-packag
       es (from pykalman) (24.2)
       Collecting scikit-base<0.13.0 (from pykalman)
         Downloading scikit_base-0.12.2-py3-none-any.whl.metadata (8.8 kB)
       Requirement already satisfied: scipy<2.0.0 in /usr/local/lib/python3.11/dist-pack
       ages (from pykalman) (1.15.3)
       Downloading pykalman-0.10.1-py2.py3-none-any.whl (248 kB)
                                                 - 248.5/248.5 kB 4.8 MB/s eta 0:00:00
       Downloading scikit_base-0.12.2-py3-none-any.whl (142 kB)
                                                 -- 142.7/142.7 kB 11.4 MB/s eta 0:00:00
       Installing collected packages: scikit-base, pykalman
       Successfully installed pykalman-0.10.1 scikit-base-0.12.2
In [ ]: from pykalman import KalmanFilter
        After installing the library and importing the function we can apply the Kalman Filter to
        our data:
In [ ]: data = df_1950['Monthly Anomaly'].values
In [ ]: # Initialize Kalman Filter
        kf = KalmanFilter(transition_matrices=[1],
                          observation_matrices=[1],
                           initial_state_mean=data[0],
                           initial_state_covariance=1,
                           observation covariance=1,
                           transition_covariance=0.01)
        # Estimate the state sequence using the Kalman filter
        kalman filter, = kf.smooth(data)
        # Add the Kalman smoothed data to the dataframe
        df_1950['Kalman_filter'] = kalman_filter
In [ ]: plt.figure(figsize=(16, 12))
        plt.subplot(2, 1, 1)
        df 1950['Monthly Anomaly'].plot(label='Original Data')
        plt.ylabel('Temperature ($^o$C)')
        plt.legend(loc='upper left')
        plt.title('Original Temperature Data')
        plt.subplot(2, 1, 2)
        df_1950['Kalman_filter'].plot(label='Kalman Filter')
        plt.ylabel('Temperature ($^o$C)')
        plt.legend(loc='upper left')
        plt.title('Kalman Filtered Data')
        plt.show()
```



Kalman Smoothing

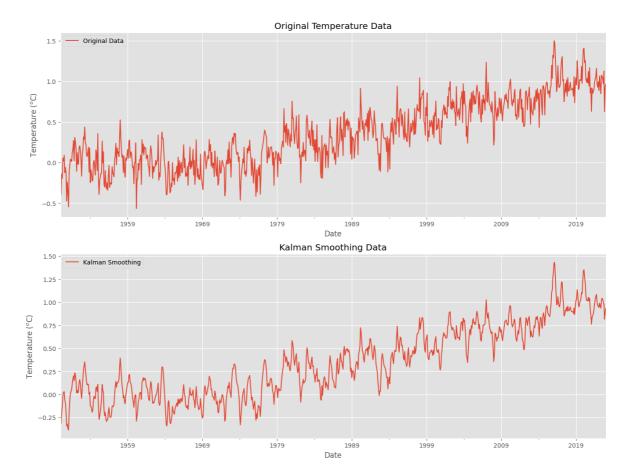
Unlike Kalman filtering, which focuses on predicting and updating the current state using historical measurements, Kalman smoothing increases the accuracy of past state values. This approach is particularly beneficial in scenarios that require a comprehensive and accurate understanding of the entire data set. By effectively reducing the impact of noise and uncertainty, Kalman smoothing contributes to producing cleaner and more reliable data. The reverse approach in Kalman smoothing involves revisiting and recalculating previous data points using information from past and future data. This approach allows for rechecking previous estimates with additional information that was not available during the initial estimation or prediction.

Following are various components used in Kalman smoother that help define the pattern of the series:

- Level: This component assumes that the time series has a consistent level or mean over time, which helps filter out random noise.
- Trend Level: In addition to the average over time, this component helps capture
 whether the data is trending upward or downward over time.
- Seasonal Level: Helps capture repetitive patterns of averaging over time, which captures periodic fluctuations in the data.

- Seasonal Trend Level: This is a combination of level, trend and seasonality components
- Long Seasonal Level: Captures long-term patterns over multiple seasons, which helps capture the periodic behavior of data over long durations.

```
from tsmoothie.smoother import KalmanSmoother
        Let's apply Kalman smoothing here:
In [ ]: smoother = KalmanSmoother(component='level_trend',component_noise={'level':0.2,'
        smoother.smooth(df_1950['Monthly Anomaly'])
        # generate intervals
        low, up = smoother.get_intervals('kalman_interval')
In [ ]: df_1950['Kalman_smoothing'] = smoother.smooth_data[0]
In [ ]: plt.figure(figsize=(16, 12))
        plt.subplot(2, 1, 1)
        df_1950['Monthly Anomaly'].plot(label='Original Data')
        plt.ylabel('Temperature ($^o$C)')
        plt.legend(loc='upper left')
        plt.title('Original Temperature Data')
        plt.subplot(2, 1, 2)
        df_1950['Kalman_smoothing'].plot(label='Kalman Smoothing')
        plt.ylabel('Temperature ($^o$C)')
        plt.legend(loc='upper left')
        plt.title('Kalman Smoothing Data')
        plt.show()
```



Hodrick-Prescott filter

The Hodrick-Prescott Filter (HP Filter) is a statistical technique used to decompose a time series into two components: the long-term trend and the short-term fluctuations. It is named after its creators, Robert Hodrick and Edward Prescott.

The idea behind the HP Filter is to find a smoothed trend function that minimizes the variance of the fluctuations with respect to the trend. This is achieved through a process of minimizing an objective function that takes into account both the smoothness of the trend and the goodness of fit of the fluctuations.

Once the time series is decomposed into trends and short-term fluctuations, analysts can analyze these components separately, better understanding the long-term patterns and cyclical variations of the series. This can be useful for identifying growth trends, economic cycles, turning points, and anomalies in the data.

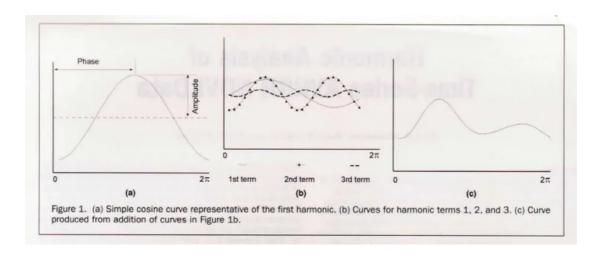
It is important to note that the HP Filter is not a perfect technique and has some limitations. The choice of the smoothing parameter can affect the results, and the interpretation of short-term fluctuations also requires caution, as they can be influenced by temporary factors or events not captured by the model.

```
In [ ]: import statsmodels.api as sm
In [ ]: cicle, trend = sm.tsa.filters.hpfilter(df_1950['Monthly Anomaly'], 129600)
```

```
In [ ]: df_1950["Monthly Cicle Anomaly"] = cicle
         df_1950["Monthly Trend Anomaly"] = trend
In [ ]: plt.figure(figsize=(16, 4))
         df_1950["Monthly Anomaly"].plot()
         df_1950["Monthly Trend Anomaly"].plot()
         plt.show()
        1.0
                                                                                            2019
                    1959
                                            1979
                                                                    1999
                                                                                2009
                                1969
                                                     Date
In [ ]: plt.figure(figsize=(16, 4))
         df_1950["Monthly Cicle Anomaly"].plot()
         plt.show()
       -0.6
                    1959
                                1969
                                            1979
                                                                    1999
                                                                                2009
                                                                                            2019
```

Harmonic Models

Harmonic analysis of NDVI time series aims to characterize seasonal changes in the spectral behavior of targets by decomposing the time series into harmonic terms. Similar to principal component analysis, most of the variance in a dataset is contained in the first few terms (components). Over 90% of the variance in the original time series was captured in the additive and first two harmonic terms. The additive term and the phase and amplitude for the first two harmonic terms were extracted and used for further analysis.



The amplitude corresponds to half the value at which the function is maximized, and the phase is the displacement between the origin and the peak of the wave in the interval from 0 to 2π . Each harmonic term represents the number of cycles completed by a wave, in a given time interval, and is responsible for a percentage of the total variance of the original time series. Thus, the first harmonic has a period T equal to the total period, the second harmonic corresponds to half the period of the first harmonic T/2, the third harmonic to T/3 and so on.

First, we will obtain NDVI data from areas with soybeans, where in each campaign, the NDVI has a harmonic pattern according to the phenological cycle of the crop:

```
import ee
import matplotlib.pyplot as plt
import numpy as np
import pandas as pd
import geemap
import geopandas as gpd
import warnings
import datetime
warnings.filterwarnings('ignore')
```

Let's authenticate and connect to Drive to get our area of interest:

```
In []: ee.Authenticate()
    ee.Initialize(project='my-project-1527255156007')

In []: from google.colab import drive
    drive.mount('/content/drive')

Drive already mounted at /content/drive; to attempt to forcibly remount, call dri
    ve.mount("/content/drive", force_remount=True).

Link to Dataset:
    https://drive.google.com/drive/folders/1_zwxcE3YM6R4NaXfvoMVCKQaOzA6I_kR?
    usp=sharing

In []: path_aoi_soja = '/content/drive/MyDrive/Datasets_TS/AOI_soja/AOI_SOJA.shp'

In []: gdf_soja = gpd.read_file(path_aoi_soja)
```

Let's convert the GeoDataFrame into a FeatureCollection:

```
In [ ]: fc = geemap.geopandas_to_ee(gdf_soja)
        We will get the average monthly NDVI data from 2017 to 2024:
In [ ]: S2_coll = ee.ImageCollection("COPERNICUS/S2_SR_HARMONIZED").filter(ee.Filter.lt(
In [ ]: def addNDVI(image):
            ndvi = image.normalizedDifference(['B8', 'B4']).rename('NDVI')
            return image.addBands(ndvi)
        S2_ndvi = S2_coll.map(addNDVI)
In [ ]: | def meanNDVI(image):
            image = ee.Image(image)
            meanDict = image.reduceRegion(reducer = ee.Reducer.mean().setOutputs(['NDVI'
                 geometry = fc,
                 scale = image.projection().nominalScale().getInfo(),
                                             maxPixels = 100000,
                                             bestEffort = True);
            return meanDict.get('NDVI').getInfo()
In [ ]: listOfImages_ndvi = S2_ndvi.select('NDVI').toList(S2_ndvi.size())
        ndvi_coll = []
        for i in range(listOfImages_ndvi.length().getInfo()):
            image = ee.Image(listOfImages_ndvi.get(i-1))
            temp_ndvi = meanNDVI(image)
            ndvi coll.append(temp ndvi)
        We can convert it to a DataFrame:
In [ ]: dates = np.array(S2_ndvi.aggregate_array("system:time_start").getInfo())
        day = [datetime.datetime.fromtimestamp(i/1000).strftime('%Y-%m-%d') for i in (da
In [ ]: | ndvi_df = pd.DataFrame(ndvi_coll, index = day, columns = ['ndvi'])
        ndvi df.index = pd.to datetime(ndvi df.index)
        ndvi_df.sort_index(ascending = True, inplace = True)
        ndvi_df.head(5)
```

```
Out[]: ndvi

2019-05-09 0.165736

2019-05-19 0.807025

2019-05-19 0.783828

2019-06-08 0.807190

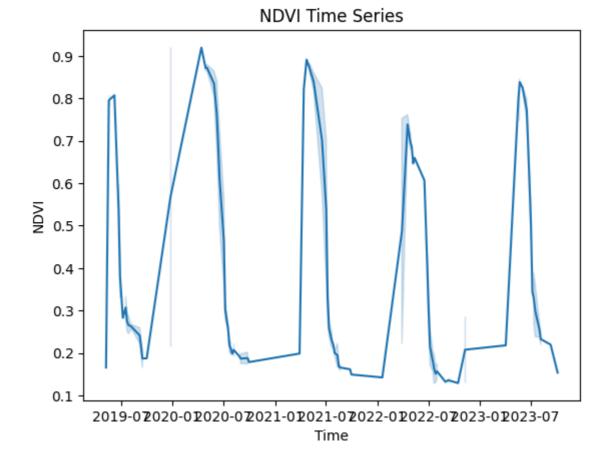
2019-06-23 0.596796
```

```
import seaborn as sns
import matplotlib.pyplot as plt

# Create the time series plot
sns.lineplot(data=ndvi_df, x=ndvi_df.index, y='ndvi')

# Set the title and axis labels
plt.title('NDVI Time Series')
plt.xlabel('Time')
plt.ylabel('NDVI')

# Display the plot
plt.show()
```



Let's then apply the harmonic transformation:

```
In [ ]: dependent = 'NDVI'
harmonics = 3
harmonicFrequencies = list(range(1, harmonics+1))
```

```
harmonicFrequencies
In [ ]:
Out[]: [1, 2, 3]
In [ ]: def getNames (base, lst_freq) :
          name_lst = []
          for i in lst_freq:
            name_lst.append(ee.String(base + str(i)))
          return name 1st
In [ ]: cosNames = getNames('cos_', harmonicFrequencies);
        sinNames = getNames('sin_', harmonicFrequencies);
        independents = ee.List(['constant', 't']).cat(cosNames).cat(sinNames);
In [ ]: def addConstant (image) :
          return image.addBands(ee.Image(1));
In [ ]: import math
        def addTime (image) :
          date = ee.Date(image.get('system:time_start'));
          years = date.difference(ee.Date('1970-01-01'), 'year');
          timeRadians = ee.Image(years.multiply(2 * math.pi));
          return image.addBands(timeRadians.rename('t').float());
In [ ]: def addHarmonics (image) :
          frequencies = ee.Image.constant(harmonicFrequencies)
          time = ee.Image(image).select('t')
          cosines = time.multiply(frequencies).cos().rename(cosNames)
          sines = time.multiply(frequencies).sin().rename(sinNames)
          return image.addBands(cosines).addBands(sines)
        We apply the functions created in our imageCollection:
In [ ]:
       harmonicNDVI = S2_ndvi.map(addConstant).map(addTime).map(addHarmonics);
        harmonicTrend = harmonicNDVI.select(independents.add(dependent)).reduce(ee.Reduc
In [ ]:
        harmonicTrendCoefficients = harmonicTrend.select('coefficients').arrayProject([@])
In [ ]:
        fittedHarmonic = harmonicNDVI.map(lambda image : image.addBands(image.select(ind
In [ ]:
In [ ]: print(fittedHarmonic.getInfo())
        print(harmonicTrendCoefficients.getInfo())
```

{'type': 'ImageCollection', 'bands': [], 'version': 1743009715176097, 'id': 'COPE RNICUS/S2_SR_HARMONIZED', 'properties': {'date_range': [1490659200000, 1647907200 000], 'period': 0, 'system:visualization_0_min': '0.0', 'type_name': 'ImageCollec tion', 'keywords': ['copernicus', 'esa', 'eu', 'msi', 'reflectance', 'sentinel', 'sr'], 'system:visualization_0_bands': 'B4,B3,B2', 'thumb': 'https://mw1.google.c om/ges/dd/images/COPERNICUS_S2_SR_thumb.png', 'description': 'Sentinel-2 is a wide-swath, high-resolution, multi-spectral\nimaging mission supporting Copernicu s Land Monitoring studies,\nincluding the monitoring of vegetation, soil and wate r cover,\nas well as observation of inland waterways and coastal areas. Sentinel-2 L2 data are downloaded from scihub. They were\ncomputed by running sen 2cor. WARNING: ESA did not produce L2 data\nfor all L1 assets, and earlier L2 cov erage is not global.The assets contain\n12 UINT16 spectral bands represent ing SR scaled by 10000 (unlike in L1 data,\nthere is no B10). There are also seve ral more L2-specific bands (see band\nlist for details). See the\nSentinel-2 User Handbook\nfor details. In addition, three QA bands are present where one \n(QA60) is a bitmask band with cloud mask information. For more\ndetails, <a hre f="https://sentinel.esa.int/web/sentinel/technical-guides/sentinel-2-msi/level-1 c/cloud-masks">see the full explanation of how cloud masks are computed. p>EE asset ids for Sentinel-2 L2 assets have the following format:\nCOPERNICUS/S2 _SR/20151128T002653_20151128T102149_T56MNN. Here the\nfirst numeric part represen ts the sensing date and time, the\nsecond numeric part represents the product gen eration date and\ntime, and the final 6-character string is a unique granule iden tifier\nindicating its UTM grid reference (see MGRS).Clouds can be removed by us ing\nCOPERNICUS/S2_CLOUD_PROBABILITY</a</pre> >.\nSee\n
>.\nSee\nthis tutorial\nexplaining how to apply the cloud mas k.For more details on Sentinel-2 radiometric resolution, se e this page.Provider: European Union/ESA/Copernicus</ $a>
Revisit Interval
\n 5 days \nBands$ ss="eecat">NameDescription r>B5c/td>Red Edge 1B6c/td>Red Edge 2 B8c/td>r>>NIR <ta><d>88ARed Edge 4<ta><d>+b><ta><d>+b><ta><d>+b><ta><d>+b><ta><d>+b><ta><d>+b><ta><d>+b><ta><d>+b><ta><d>+b><ta><d>+b><ta><d>+b><ta><d>+b><ta><d>+b><ta><d>+b><ta><d>+b><ta><d>+b><ta><d>+b><ta><d>+b><ta><d>+b><ta><d>+b><ta><d>+b><ta><d>+b><ta><d>+b><ta><d>+b><ta><dd>+b>+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><d>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><d>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b+b<ta><dd>+b</t p>Water vaporB117>SWIR 11 SWIR 2AOTAerosol Optical Thickness WVPWater Vapor Pressure. The height the water w ould occupy if the vapor were condensed into\nliquid and spread evenly across the column.SCLScene Classification Map (The "N o Data" value of 0 is masked out)TCI_RTrue Color Image, Red channelTCI_GTrue Color Image, Green channelTCI_BTrue Color Image, Blue channe lMSK CLDPRBcp>Cloud Probability Map (missing in so me products)MSK_SNWPRBSnow Probability Map (mis sing in some products)QA10Always empty oud mask\n Bitmask for QA60\n\n Bit 10: Opaque clouds\n0: No opaque clouds1: Opaque clouds prese Bit 11: Cirrus clouds\n0: No cirrus clou nt</n dsCirrus clouds present</tl>Im age PropertiesName<th scope="co l">TypeDescriptionACT_RETRIEVAL_ACCURACY</ td>DOUBLEAccuracy of Aerosol Optical thickness model >CLOUDY_PIXEL_PERCENTAGEDOUBLEGranule-specific cloud y pixel percentage taken from the original metadataCLOUD_CO

VERAGE_ASSESSMENTDOUBLEtd><Cloudy pixel percentage for the whole archive that\ncontains this granule. Taken from the original metadata r>CLOUDY_SHADOW_PERCENTAGEDOUBLE>p>Percentage of pixels classified as cloud shadowDARK_FEATURES_PERCENTAGE DOUBLEPercentage of pixels classified as dark features or shadows >DATASTRIP_IDSTRINGUnique identifier of the d>STRINGUniquely identifies a given Datatake. The ID contains\nthe Se ntinel-2 satellite, start date and time, absolute orbit\nnumber, and processing b aseline.DATATAKE_TYPESTRINGMSI operati ECTNESSSTRINGOn-Line Quality Control (OLQC) checks\nperformed at granule (Product_Syntax) and datastrip (Product\nSyntax and d>Synthesis of the OLQC checks performed at the datastrip level (Relative_Orbi t_Number)GENERATION_TIMEDOUBLEProduct generation timeGEOMETRIC_QUALITYSTRING Synthesis of the OLQC checks performed at the datastrip level (Attitude_Quality_I ndicator)GRANULE_IDSTRINGUnique identi fier of the granule PDI (PDI_ID)HIGH_PROBA_CLOUDS_PERCENTAG loudsMEAN_INCIDENCE_AZIMUTH_ANGLE_B1DOUBLEtd >Mean value containing viewing incidence azimuth angle average for band B1 and for all detectorsMEAN_INCIDENCE_AZIMUTH_ANGLE_B2DO UBLEMean value containing viewing incidence azimuth angle average for band B2 and for all detectorsMEAN_INCIDENCE_AZIMUTH_ANGLE_B 3DOUBLEMean value containing viewing incidence azimuth angle average for band B3 and for all detectorsMEAN_INCIDENCE_AZI MUTH ANGLE B4DOUBLEcontaining viewing incidence a zimuth angle average for band B4 and for all detectorsMEAN_ INCIDENCE_AZIMUTH_ANGLE_B5>OUBLE>Mean value containing viewin g incidence azimuth angle average for band B5 and for all detectors MEAN_INCIDENCE_AZIMUTH_ANGLE_B6DOUBLEMean value cont aining viewing incidence azimuth angle average for band B6 and for all detectors ean value containing viewing incidence azimuth angle average for band B7 and for all detectorsMEAN_INCIDENCE_AZIMUTH_ANGLE_B8DOUBLE Mean value containing viewing incidence azimuth angle average for ban d B8 and for all detectorsMEAN_INCIDENCE_AZIMUTH_ANGLE_B8A DOUBLEMean value containing viewing incidence azimuth angle average for band B8a and for all detectorsMEAN INCIDENCE AZ IMUTH_ANGLE_B9DOUBLEp>Mean value containing viewing incidence azimuth angle average for band B9 and for all detectorsMEAN _INCIDENCE_AZIMUTH_ANGLE_B10DOUBLEMean value containing view ing incidence azimuth angle average for band B10 and for all detectors tr>MEAN_INCIDENCE_AZIMUTH_ANGLE_B11DOUBLEMean value containing viewing incidence azimuth angle average for band B11 and for all detec torsMEAN_INCIDENCE_AZIMUTH_ANGLE_B12DOUBLEtd >Mean value containing viewing incidence azimuth angle average for band B12 an d for all detectorsMEAN_INCIDENCE_ZENITH_ANGLE_B1D OUBLEangle average for band B1 and for all detectorsAmean Incidence Zenith Angle B2 DOUBLEcontaining viewing incidence zenith angle a verage for band B2 and for all detectorsMEAN_INCIDENCE_ZENI TH_ANGLE_B3DOUBLEMean value containing viewing incidence zen ith angle average for band B3 and for all detectorsMEAN_INC IDENCE_ZENITH_ANGLE_B4DOUBLEcontaining viewing in cidence zenith angle average for band B4 and for all detectors td>MEAN_INCIDENCE_ZENITH_ANGLE_B5DOUBLEMean value containing

viewing incidence zenith angle average for band B5 and for all detectors <tt>MEAN_INCIDENCE_ZENITH_ANGLE_B6DOUBLEMean value containing viewing incidence zenith angle average for band B6 and for all detecto rs<ta>MEAN_INCIDENCE_ZENITH_ANGLE_B7DOUBLE Mean value containing viewing incidence zenith angle average for band B7 and for all detectors>d>MEAN INCIDENCE ZENITH ANGLE B8DOUBLE Mean value containing viewing incidence zenith angle average for band B8 and for all detectorsMEAN_INCIDENCE_ZENITH_ANGLE_B8A >DOUBLEMean value containing viewing incidence zenith angle avera ge for band B8a and for all detectorsMEAN_INCIDENCE_ZENITH_ ANGLE_B9DOUBLEenith angle average for band B9 and for all detectorsMEAN_INCIDEN CE_ZENITH_ANGLE_B10DOUBLEcontaining viewing incid ence zenith angle average for band B10 and for all detectors >MEAN_INCIDENCE_ZENITH_ANGLE_B11>DOUBLE><bp>Mean value containing viewing incidence zenith angle average for band B11 and for all detectors >MEAN_INCIDENCE_ZENITH_ANGLE_B12DOUBLEMean valu e containing viewing incidence zenith angle average for band B12 and for all dete ctorsMEAN_SOLAR_AZIMUTH_ANGLEDOUBLE+td>>Mea n value containing sun azimuth angle average for all bands and detectors <tt>MEAN_SOLAR_ZENITH_ANGLEDOUBLEMean value contain ing sun zenith angle average for all bands and detectorsMED IUM_PROBA_CLOUDS_PERCENTAGE>td>DOUBLE>Percentage of pixels classi fied as medium probability cloudsMGRS_TILESTRING</ TA_PIXEL_PERCENTAGEDOUBLEPercentage of No Data pixels</t d>NOT_VEGETATED_PERCENTAGEDOUBLEPercentage of p ixels classified as non-vegetated<tt>PROCESSING_BASELINE<t d>STRINGConfiguration baseline used at the time of the product\ngener ation in terms of processor software version and major Ground\nImage Processing P p>The full id of the original Sentinel-2 productRADIATIVE_T RANSFER_ACCURACYDOUBLEp>Accuracy of radiative transfer model p>RADIOMETRIC_QUALITYSTRINGRased on the OL QC reports contained in the Datastrips/QI DATA with RADIOMETRIC QUALITY checklist d>Earth-Sun distance correction factorSATURATED DEFECTIV E_PIXEL_PERCENTAGE>DOUBLE>p>Percentage of saturated or defective pixelsSENSING_ORBIT_DIRECTIONSTRING+td>Ima ging orbit directionSENSING_ORBIT_NUMBER >Imaging orbit numberSENSOR QUALITYSTRING</ td>Synthesis of the OLQC checks performed at granule\n(Missing_Lines, Corr upted_ISP, and Sensing_Time) and datastrip\n(Degraded_SAD and Datation_Model) lev elsSOLAR_IRRADIANCE_B1DOUBLEMean solar d>DOUBLEMean solar exoatmospheric irradiance for band B2 SOLAR IRRADIANCE B3DOUBLEMean solar exoatmosphe ric irradiance for band B3SOLAR IRRADIANCE B4DOUBL EMean solar exoatmospheric irradiance for band B4<t d>SOLAR IRRADIANCE B5DOUBLEradia p>Mean solar exoatmospheric irradiance for band B6SOLAR_IRR ADIANCE B7DOUBLEfor ban d B7SOLAR_IRRADIANCE_B8DOUBLE>Mean sola r exoatmospheric irradiance for band B8SOLAR_IRRADIANCE_B8A DOUBLEMean solar exoatmospheric irradiance for band B8a SOLAR_IRRADIANCE_B9DOUBLEFear exoatm ospheric irradiance for band B9SOLAR_IRRADIANCE_B10 >DOUBLEMean solar exoatmospheric irradiance for band B10 >SOLAR_IRRADIANCE_B11DOUBLEMean solar exoatmospheric

Mean solar exoatmospheric irradiance for band B12<t d>SNOW_ICE_PERCENTAGEDOUBLErerentage of pixels classified a s snow or iceSPACECRAFT_NAMESTRINGSent _PERCENTAGEDOUBLEPercentage of pixels classified as thin cir rus cloudsUNCLASSIFIED_PERCENTAGEDOUBLErus cloudsrus clou >Percentage of unclassified pixelsVEGETATION_PERCENTAGE >DOUBLEPercentage of pixels classified as vegetation >WATER_PERCENTAGEDOUBLEPercentage of pixels classifi ed as waterWATER_VAPOUR_RETRIEVAL_ACCURACYDOUBLE</ td>Declared accuracy of the Water Vapor modelT erms of Use
The use of Sentinel data is governed by the href="http">href="http s://scihub.copernicus.eu/twiki/pub/SciHubWebPortal/TermsConditions/Sentinel_Data_ Terms_and_Conditions.pdf">Copernicus\nSentinel Data Terms and Conditions. <style>\n table.eecat {\n border: 1px solid black;\n border-collapse: collaps e;\n font-size: 13px;\n }\n table.eecat td, tr, th {\n text-align: left; vert ical-align: top;\n border: 1px solid gray; padding: 3px;\n }\n td.nobreak { wh ite-space: nowrap; }\n</style>', 'source_tags': ['eu', 'esa', 'copernicus', 'sent inel'], 'visualization_0_max': '3000.0', 'provider_url': 'https://earth.esa.int/w eb/sentinel/user-guides/sentinel-2-msi/product-types/level-2a', 'title': 'Sentine 1-2 MSI: MultiSpectral Instrument, Level-2A', 'sample': 'https://mw1.google.com/g es/dd/images/COPERNICUS_S2_SR_sample.png', 'tags': ['copernicus', 'esa', 'eu', 'm si', 'reflectance', 'sentinel', 'sr'], 'system:visualization_0_max': '3000.0', 'p roduct_tags': ['msi', 'sr', 'reflectance'], 'provider': 'European Union/ESA/Coper nicus', 'visualization_0_min': '0.0', 'system:visualization_0_name': 'RGB', 'visu alization_0_name': 'RGB', 'visualization_0_bands': 'B4,B3,B2'}, 'features': [{'ty pe': 'Image', 'bands': [{'id': 'B1', 'data_type': {'type': 'PixelType', 'precisio n': 'int', 'min': 0, 'max': 65535}, 'dimensions': [1830, 1830], 'crs': 'EPSG:3272 1', 'crs_transform': [60, 0, 699960, 0, -60, 8200000]}, {'id': 'B2', 'data_type': {'type': 'PixelType', 'precision': 'int', 'min': 0, 'max': 65535}, 'dimensions': [10980, 10980], 'crs': 'EPSG:32721', 'crs_transform': [10, 0, 699960, 0, -10, 820 0000]}, {'id': 'B3', 'data_type': {'type': 'PixelType', 'precision': 'int', 'mi n': 0, 'max': 65535}, 'dimensions': [10980, 10980], 'crs': 'EPSG:32721', 'crs_tra nsform': [10, 0, 699960, 0, -10, 8200000]}, {'id': 'B4', 'data_type': {'type': 'P ixelType', 'precision': 'int', 'min': 0, 'max': 65535}, 'dimensions': [10980, 109 80], 'crs': 'EPSG:32721', 'crs_transform': [10, 0, 699960, 0, -10, 8200000]}, {'i d': 'B5', 'data_type': {'type': 'PixelType', 'precision': 'int', 'min': 0, 'max': 65535}, 'dimensions': [5490, 5490], 'crs': 'EPSG:32721', 'crs_transform': [20, 0, 699960, 0, -20, 8200000]}, {'id': 'B6', 'data_type': {'type': 'PixelType', 'preci sion': 'int', 'min': 0, 'max': 65535}, 'dimensions': [5490, 5490], 'crs': 'EPSG:3 2721', 'crs_transform': [20, 0, 699960, 0, -20, 8200000]}, {'id': 'B7', 'data_typ e': {'type': 'PixelType', 'precision': 'int', 'min': 0, 'max': 65535}, 'dimension s': [5490, 5490], 'crs': 'EPSG:32721', 'crs_transform': [20, 0, 699960, 0, -20, 8 200000]}, {'id': 'B8', 'data_type': {'type': 'PixelType', 'precision': 'int', 'mi n': 0, 'max': 65535}, 'dimensions': [10980, 10980], 'crs': 'EPSG:32721', 'crs_tra nsform': [10, 0, 699960, 0, -10, 8200000]}, {'id': 'B8A', 'data_type': {'type': 'PixelType', 'precision': 'int', 'min': 0, 'max': 65535}, 'dimensions': [5490, 54 90], 'crs': 'EPSG:32721', 'crs_transform': [20, 0, 699960, 0, -20, 8200000]}, {'i d': 'B9', 'data_type': {'type': 'PixelType', 'precision': 'int', 'min': 0, 'max': 65535}, 'dimensions': [1830, 1830], 'crs': 'EPSG:32721', 'crs_transform': [60, 0, 699960, 0, -60, 8200000]}, {'id': 'B11', 'data_type': {'type': 'PixelType', 'prec ision': 'int', 'min': 0, 'max': 65535}, 'dimensions': [5490, 5490], 'crs': 'EPSG: 32721', 'crs_transform': [20, 0, 699960, 0, -20, 8200000]}, {'id': 'B12', 'data_t ype': {'type': 'PixelType', 'precision': 'int', 'min': 0, 'max': 65535}, 'dimensi ons': [5490, 5490], 'crs': 'EPSG:32721', 'crs_transform': [20, 0, 699960, 0, -20, 8200000]}, {'id': 'AOT', 'data_type': {'type': 'PixelType', 'precision': 'int', 'min': 0, 'max': 65535}, 'dimensions': [10980, 10980], 'crs': 'EPSG:32721', 'crs_ transform': [10, 0, 699960, 0, -10, 8200000]}, {'id': 'WVP', 'data_type': {'typ e': 'PixelType', 'precision': 'int', 'min': 0, 'max': 65535}, 'dimensions': [1098

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Then we can extract the harmonic time series as a DataFrame:

```
In [ ]: def fitted harmonic to df(fitted harmonic coll):
          fitted values list = []
          dates_list = []
          for i in range(fitted_harmonic_coll.size().getInfo()):
            image = ee.Image(fitted harmonic coll.toList(fitted harmonic coll.size()).ge
            fitted_value = image.reduceRegion(
                reducer=ee.Reducer.first(),
                geometry=fc, # Assuming 'fc' is your region of interest
                scale=30,
                maxPixels=1e13
            ).get('fitted').getInfo()
            date = image.date().format('YYYY-MM-dd').getInfo()
            fitted_values_list.append(fitted_value)
            dates_list.append(date)
          df = pd.DataFrame({'fitted': fitted values list}, index=pd.to datetime(dates l
          return df
```

```
# Example usage:
fitted_df = fitted_harmonic_to_df(fittedHarmonic)
fitted_df
```

```
Out[]:

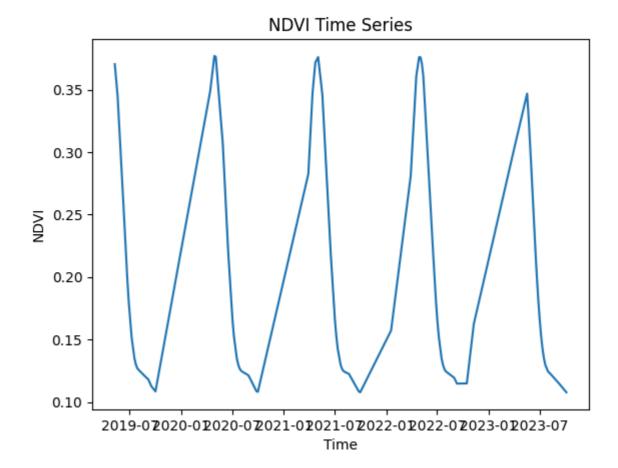
2019-05-09 0.370493
2019-05-19 0.345088
2019-05-19 0.345088
2019-06-08 0.261273
2019-06-23 0.197078
... ...
2023-08-01 0.124218
2023-08-06 0.123245
2023-09-10 0.114466
2023-10-05 0.107687
```

Finally we use matplotlib to visualize:

```
In [ ]: sns.lineplot(data=fitted_df, x=fitted_df.index, y='fitted')

# Set the title and axis labels
plt.title('NDVI Time Series')
plt.xlabel('Time')
plt.ylabel('NDVI')

# Display the plot
plt.show()
```



Thank you! See you in the next Chapter!

References:

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