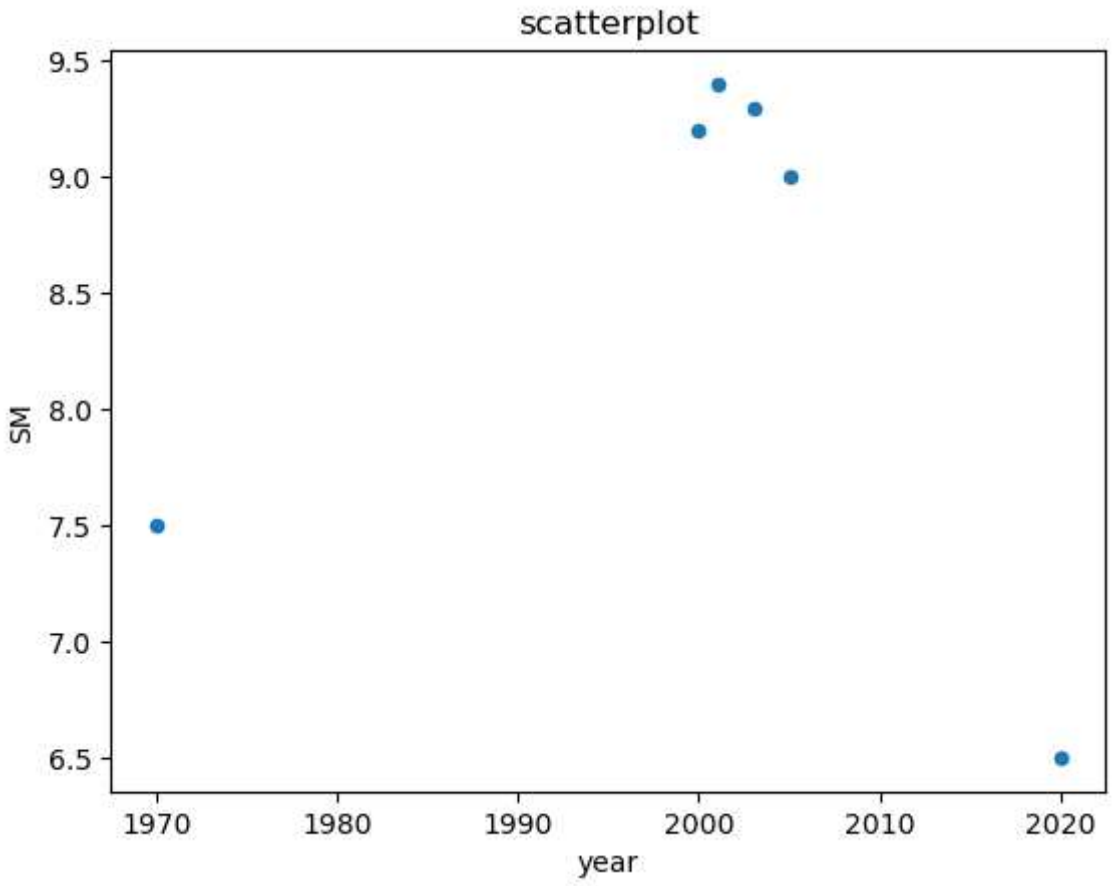
In [2]:
```
import numpy as np
import pandas as pd
data={
'year':[1970,2000,2001,2003,2005,2020],
'SM':[7.5,9.2,9.4,9.3,9.0,6.5]}
dataframe=pd.DataFrame(data)
dataframe.head()
```

Out[2]:

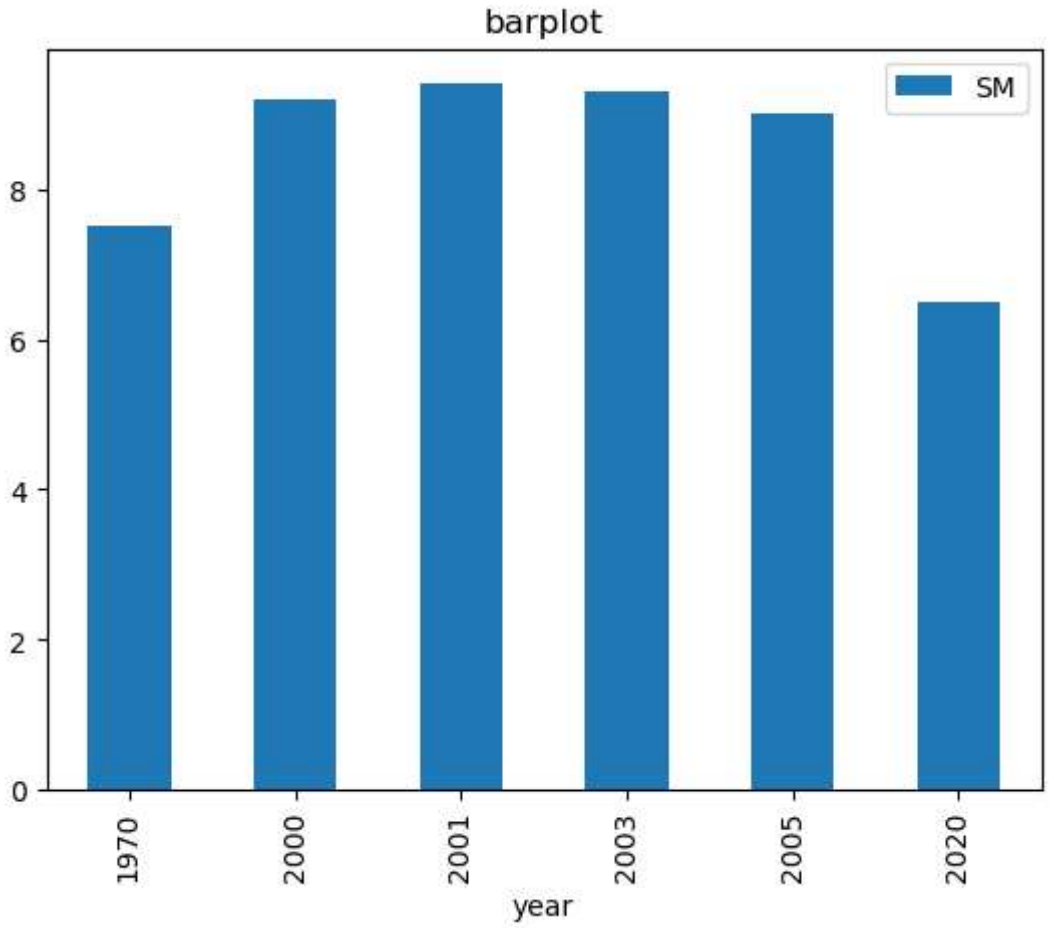
	year	SM
0	1970	7.5
1	2000	9.2
2	2001	9.4
3	2003	9.3
4	2005	9.0

In [3]:
```
import matplotlib.pyplot as plt
```

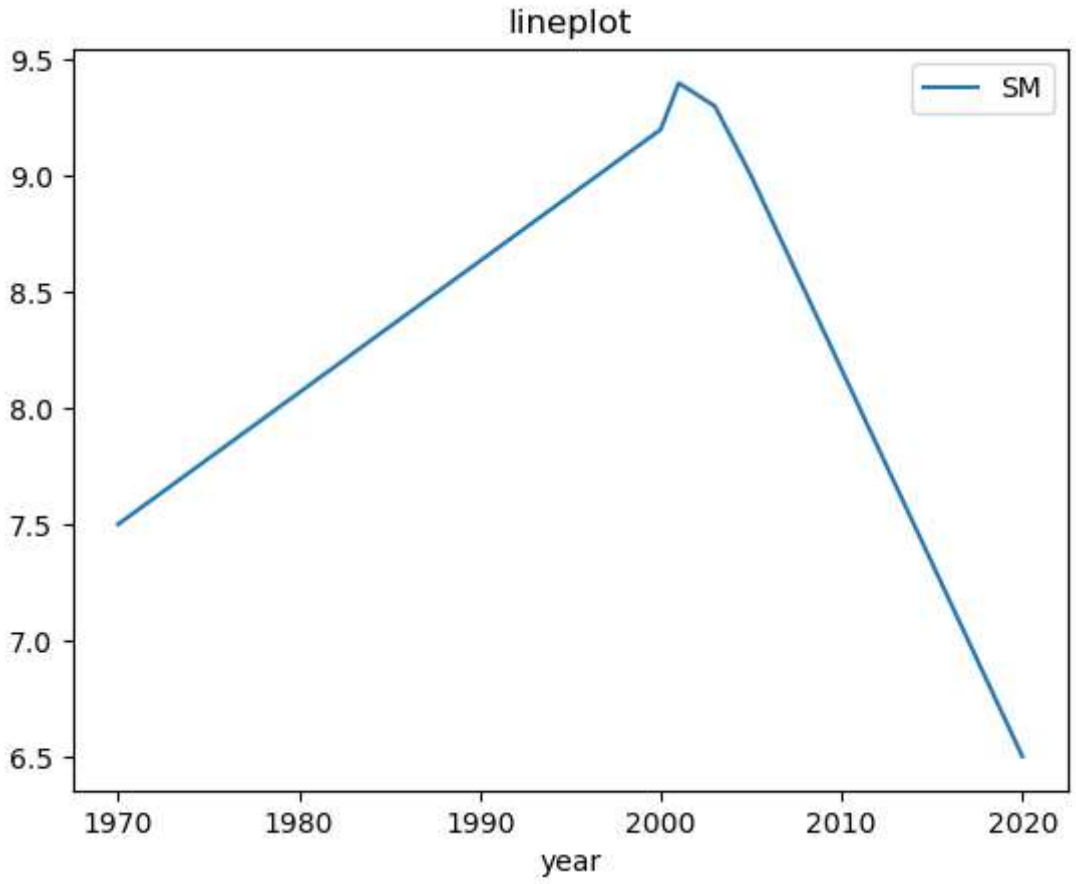
In [9]:
```
dataframe.plot(kind='scatter',
        x='year',
        y='SM',)
plt.title('scatterplot')
plt.show()
```



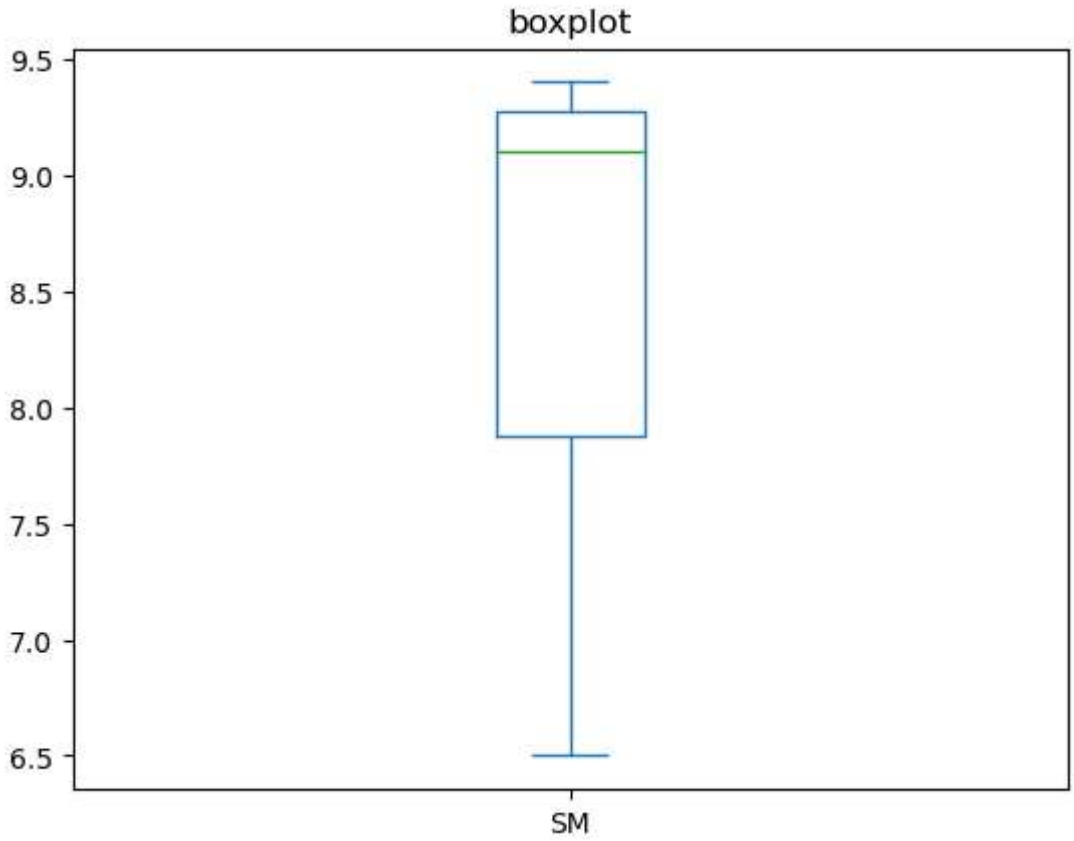
In [11]:
```
dataframe.plot(kind='bar',
        x='year',
        y='SM',)
plt.title('barplot')
plt.show()
```



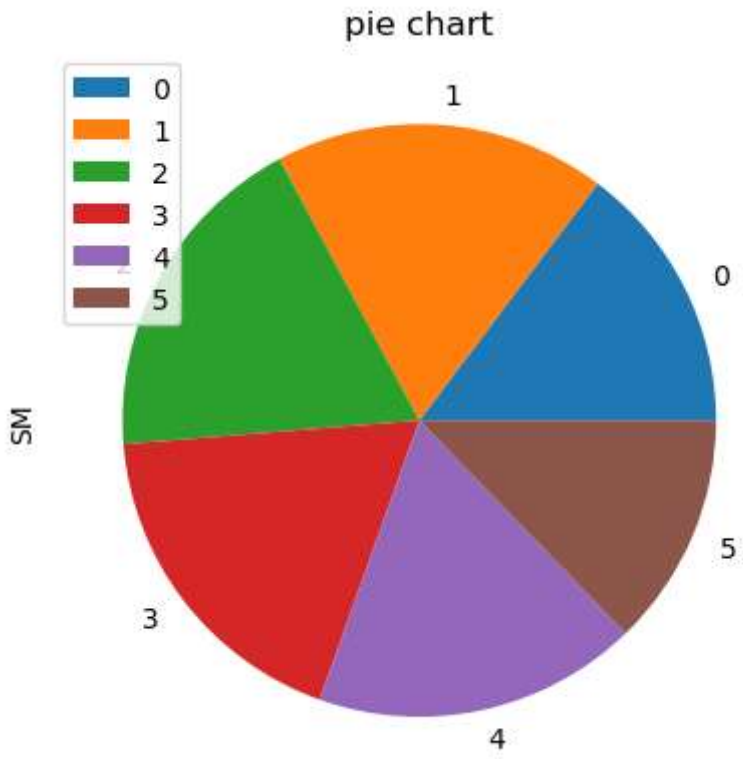
In [13]:
```
dataframe.plot(kind='line',
        x='year',
        y='SM',)
plt.title('lineplot')
plt.show()
```



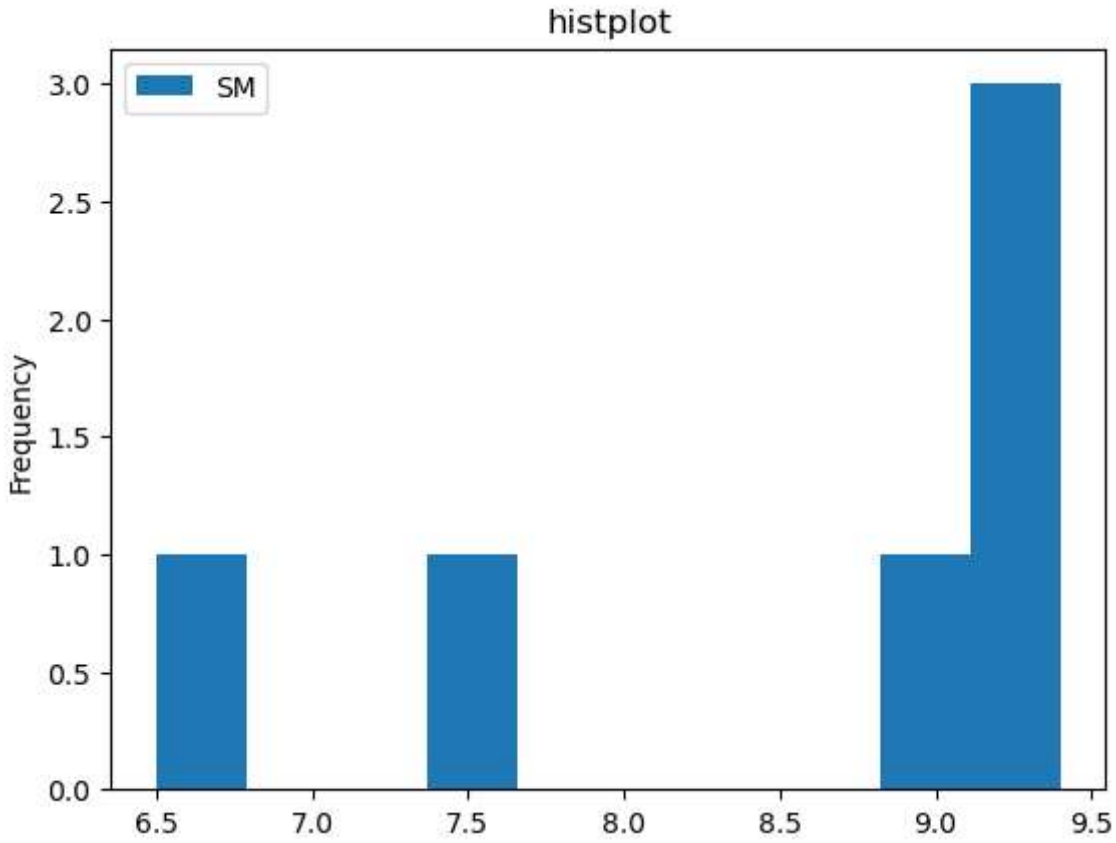
In [14]:
```
dataframe.plot(kind='box',
        x='year',
        y='SM',)
plt.title('boxplot')
plt.show()
```



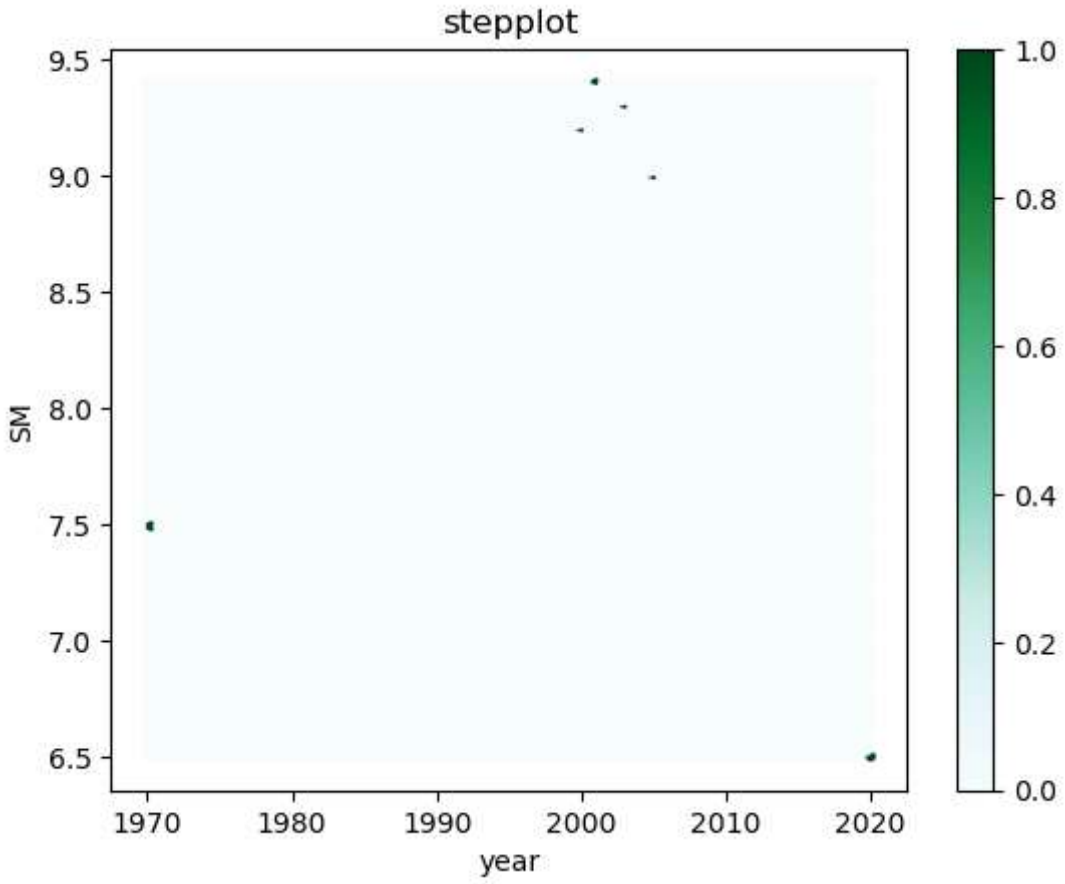
In [17]:
```
dataframe.plot(kind='pie',
        x='year',
        y='SM',)
plt.title('pie chart')
plt.show()
```



In [23]:
```
dataframe.plot(kind='hist',
        x='year',
        y='SM',)
plt.title('histplot')
plt.show()
```

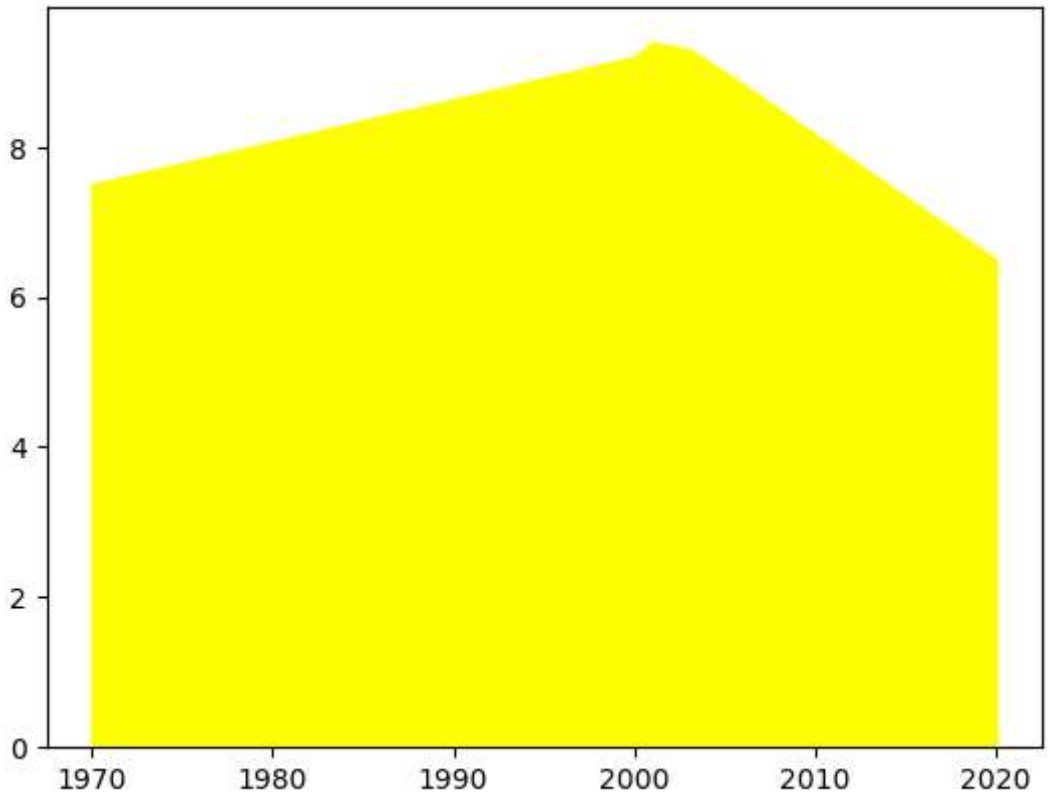


In [31]:
```
dataframe.plot(kind='hexbin',
        x='year',
        y='SM',)
plt.title('hexbin')
plt.show()
```



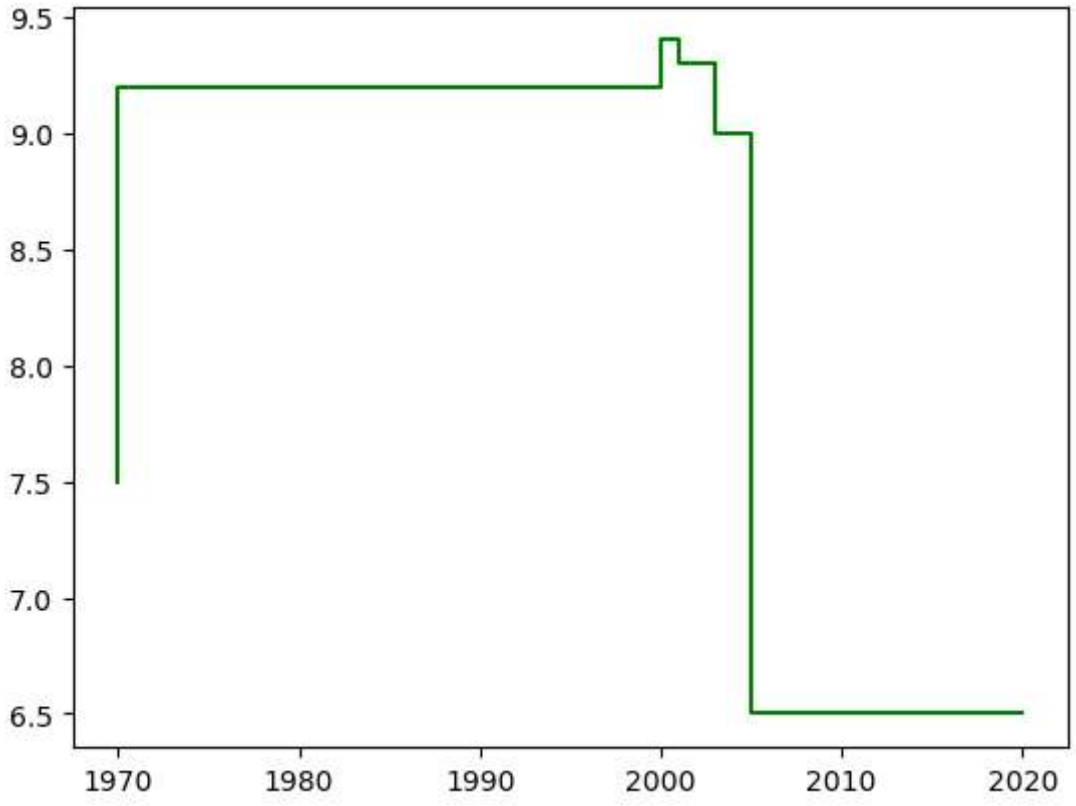
In [32]:
```
plt.stackplot(dataframe["year"],dataframe["SM"],color='yellow')
```

Out[32]:
```
[<matplotlib.collections.PolyCollection at 0x1ac20aecb50>]
```



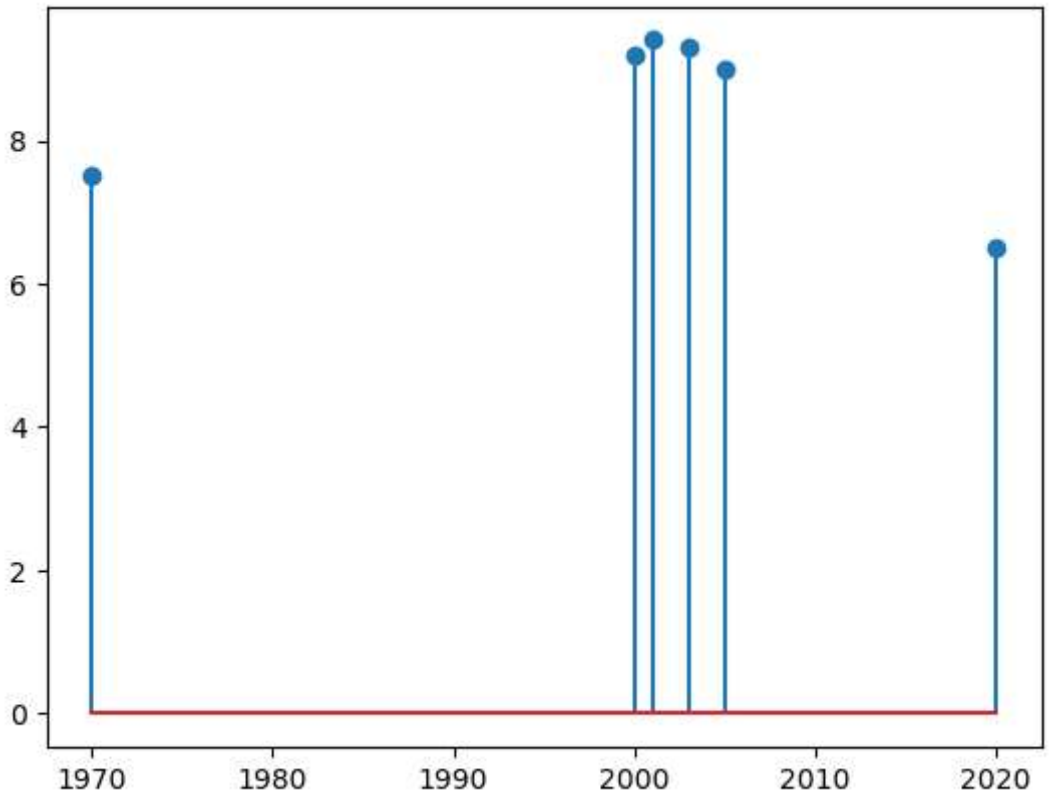
In [33]:
```
plt.step(dataframe["year"],dataframe["SM"],color="green")
```

Out[33]:
```
[<matplotlib.lines.Line2D at 0x1ac20b32a10>]
```



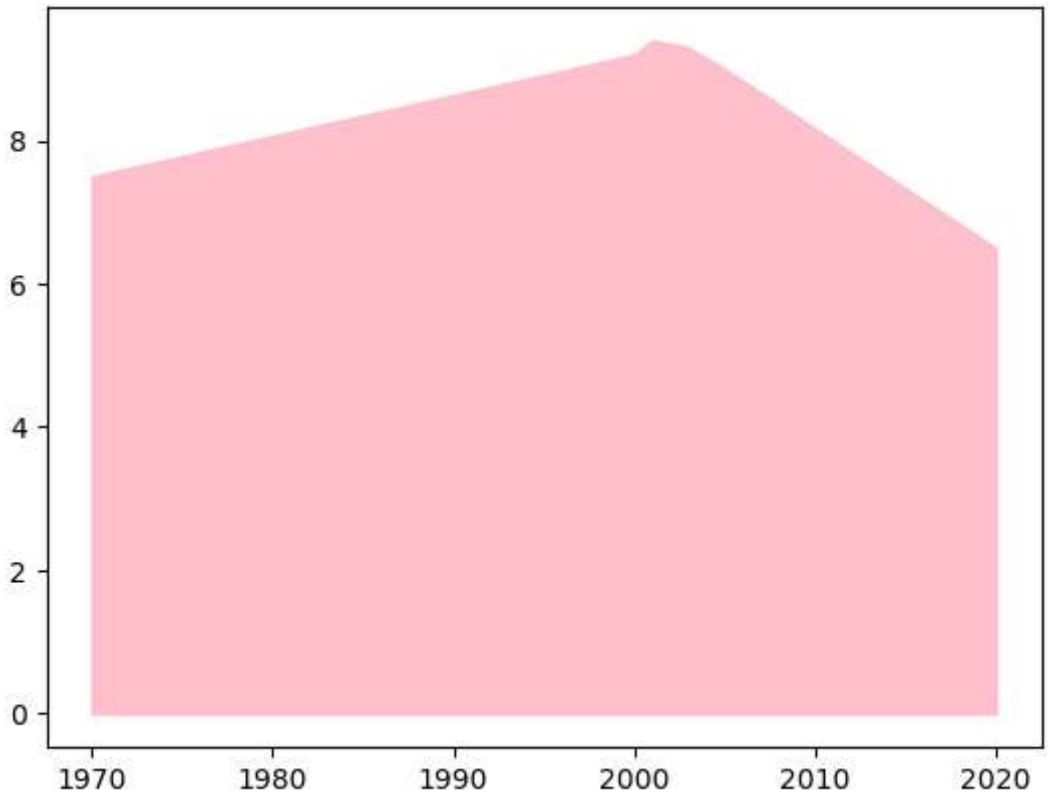
In [35]:
```
plt.stem(dataframe["year"],dataframe["SM"],)
```

Out[35]:
```
<StemContainer object of 3 artists>
```



In [36]:
```
plt.fill_between(dataframe["year"],dataframe["SM"],color="pink")
```

Out[36]:
```
<matplotlib.collections.PolyCollection at 0x1ac20d9f070>
```



In [83]:
```
dataframe.plot(kind='area',
        x='year',
        y='SM',)
plt.title('areachart')
plt.show()
```