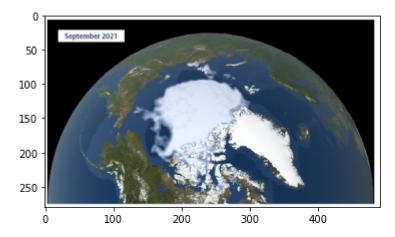
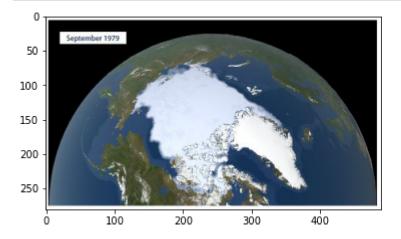
```
In [5]:
          import numpy as np
          import pandas as pd
          import matplotlib.pyplot as plt
 In [6]:
          from skimage import io
          photo = io.imread(r"C:\Users\admin\Desktop\Image_processing_project\before.jpg")
          photo.shape
Out[6]: (281, 490, 3)
 In [7]:
          %matplotlib inline
 In [8]:
          plt.imshow(photo);
                September 1979
           50
          100
          150
          200
          250
                                200
                      100
                                          300
                                                   400
In [9]:
          photo2 = io.imread(r"C:\Users\admin\Desktop\Image_processing_project\after.jpg")
          photo2.shape
Out[9]: (280, 491, 3)
In [10]:
          plt.imshow(photo2)
```

Out[10]: <matplotlib.image.AxesImage at 0x13c3979d3d0>

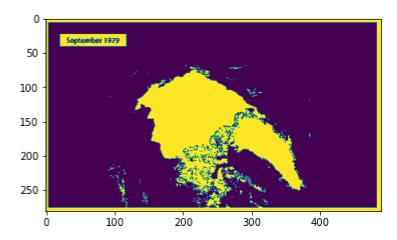


In [15]: plt.imshow(photo); # will display blue image



threshold = 200 # Adjust this threshold value if necessary
binary_image = np.where(np.sum(photo, axis=2) > threshold * 3, 1, 0)
plt.imshow(binary_image)

Out[17]: <matplotlib.image.AxesImage at 0x13c3a9cc220>



```
In [19]:
    percentage_white = (np.sum(binary_image) / binary_image.size) * 100
    percentage_white
```

Out[19]: 22.698089912121432

```
threshold2 = 200 # Adjust this threshold value if necessary
binary_image2 = np.where(np.sum(photo2, axis=2) > threshold2 * 3, 1, 0)
plt.imshow(binary_image2)
```

Out[20]: <matplotlib.image.AxesImage at 0x13c3aa283a0>

