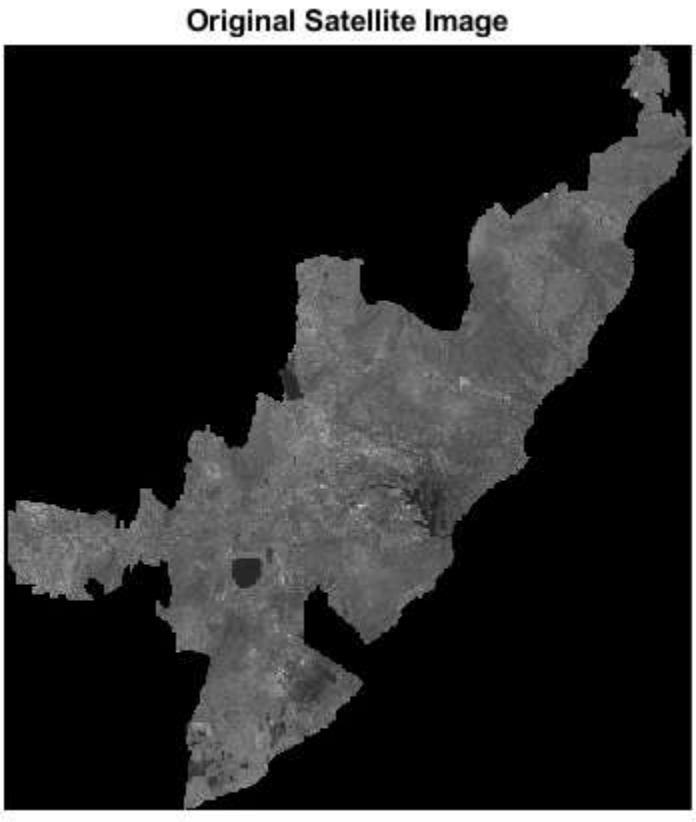
Contents

MATLAB CODE

```
%Code starts
clc;
close all;
clear all;
a=imread('clusteringInput.jpeg');
x= rgb2gray(a);
b= im2bw(a,.25);
c=(~b);
d=imfill(c,'holes');
s=immultiply(x,b);
x1=double(b);
mask = adapthisteq(x1);
se = strel('square',5);
marker = imerode(mask,se);
obr = imreconstruct(marker,mask);
```

IMAGE INPUT

```
%Displaying input image
figure(1),imshow(a),title('Original Satellite Image');
```



FINAL OUTPUT

```
%Displaying output image
figure(2),imshow(obr,[]),title('Result of Water Body Detection')
%Code ends
```

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