



SHE SPACE INTERNATIONAL

In memory of Deborah Blumberg

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Introduction

According to the UNCCD(United Nations Convention to Combat Desertification), desertification is the degradation of land that occurs as a result of complex interactions such as human activities and prolonged droughts and floods.

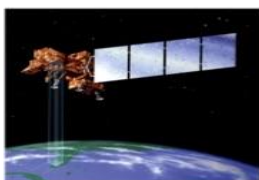
Since desertification affecting 250 million people and accelerating global warming. We should keep our eyes on it and observe the direction and trends.

Study Area

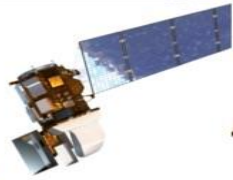
The Aral Sea is a huge water lake covering about 68,000 km² between Kazakhstan and Uzbekistan in Central Asia. As the lake desertified, the salinity increased and fertilizers and pesticides from the surrounding farmland further polluted the lake, and the fish that lived in the Aral Sea were almost wiped out.



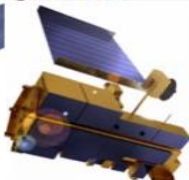
Methods



Landsat 7



Landsat 8

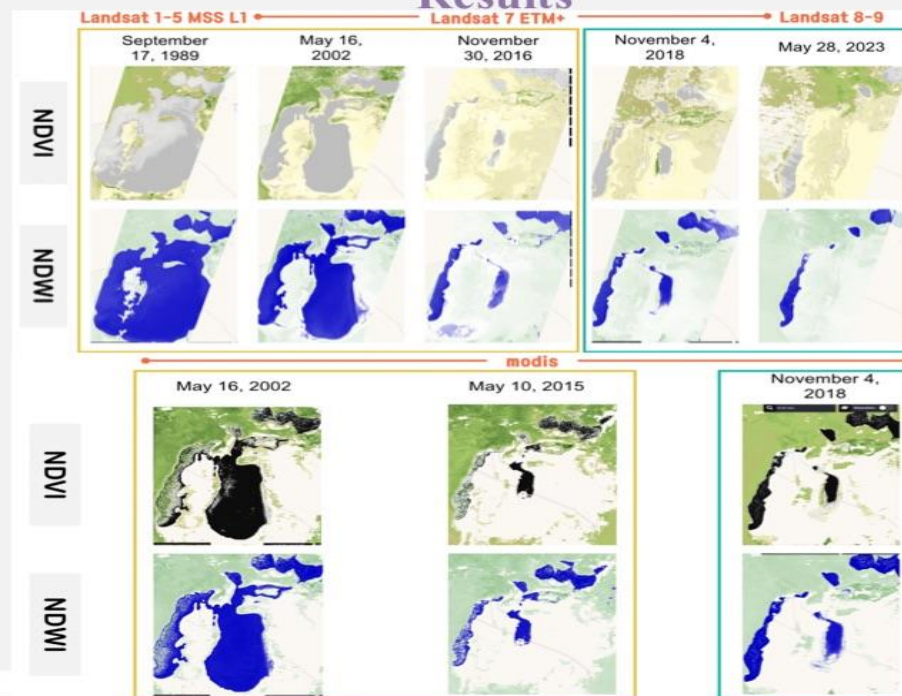


Terra



Aqua

Results



Conclusions

1980s

There have been no systematic and pan-national projects, but they seem to be still intact.

2000s

It can be seen that shrubs have grown as a result of efforts to prevent desertification

2010s

Desertification has deteriorated so much

From 2016 to 2018

The water level has increased a lot and vegetation has increased

Recently

Due to the efforts of tree planting, the vegetation index became very high.