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SPACE APPLICATIONS FOR DEVELOPING NATIONS: SERIES OF CASE STUDIES

Abstract

Space Applications in particular Earth Observation are vital to monitoring the environment and protecting against climate change in all regions of the globe. This series of case studies was assembled to help illustrate the benefits of utilizing space technologies for developing areas of the world to help enable the monitoring and fight against climate change. As the space ecosystem develops, opportunities must be identified to use existing systems to help bring space to all in this fight against climate change and its impacts. As illustrated in the following case studies, space is a powerful tool in development. This paper looks at significant applications and projects and outlines their use in monitoring, mitigating, and responding to climate change and its environmental and societal impacts. This paper does this thru a series of case studies on these systems and outlines how they are being used in this battle against climate change. With this, a light analysis is done, and recommendations are proposed based on the lessons learned and best practices of these space application systems. Providing a framework to evaluate gaps and adapt preexisting technologies to the fight against climate change for the benefit of developing nations.