

## Topics (T)

Climate Change Impacts and Challenges (Biodiversity, Forests and Land, Ocean/Marine Ecosystems, the Arctic and beyond) [1] (2A)

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THE EUROPEAN UNION SPACE PROGRAMME CONTRIBUTION TO UNDERSTANDING AND  
TACKLING THE EFFECTS OF CLIMATE CHANGE.

**Abstract**

Abstract Ms Valeria Pinna, Ms Laure-Marine Vioujard, Mr Yannick Felici, Mr Marco Florissi, Dr Christina Giannopapa, Mr Maximillian Bauernfeind

This paper presents the role of space-based applications and services in understanding and addressing the climate change challenges. It elaborates on how the European Union Space Programme can contribute to global efforts in order to better understand and tackle effects stemming of climate change.

This paper provides an analysis of data available for public resources regarding policy priorities across the EU and provides examples on how space technologies and applications can support in achieving related objectives. The sources include i.a Copernicus Early Warning and Monitoring (EMS), Eurisy database, Horizon 2020, and the EUSPA Market Report 2022. Information retrieved from satellites are assured to become an integrated element of the modern sustainability, climate change, climate change adaptation, disaster management, etc. Particular examples will be provided from workshops conducted by EUSPA.

With the environment becoming increasingly unreliable and prone to natural disasters, meteorological hazards can be better monitored, understood, and ultimately anticipated. The EU Space Programme benefits users worldwide, contributing to international collaboration in addressing the global challenge that is climate change.