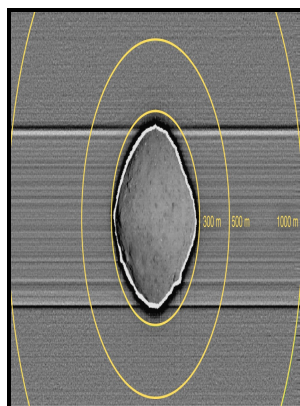


# Satellite observations of the Earth's environment - accelerating the transition of research to operations

National Academies Press - Early Adopters



Description: -

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Artificial satellites in earth sciences

Artificial satellites in remote sensing

Environmental sciences -- Remote sensing -- Technological innovations

Satellite observations of the Earth's environment -

accelerating the transition of research to operations

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Notes: Includes bibliographical references.

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Tags: #Executive #Summary

## Satellite Drag

Drag is a force exerted on an object moving through a fluid, and it is oriented in the direction of relative fluid flow. Looking ahead, we should expect to see the Earth-observation market increasingly driven by AI-enabled data analytics and not the data itself. The black lines and symbols represent the same, after correction for the average seasonal cycle.

## Satellite Observations of the Earth's Environment: Accelerating the Transition of Research to Operations

This paper argues that spatial disaggregation and timeliness could permit a process of evidence-based policy making that monitors outcomes and adjusts actions in a feedback loop that can accelerate development through learning. Climate model simulations that consider only natural solar variability and volcanic aerosols since 1750—omitting observed increases in greenhouse gases—are able to fit the observations of global temperatures only up until about 1950. Report National Science Foundation, 2009.

## Satellite Observations of the Earth's Environment: Accelerating the Transition of Research to Operations

In a world without low clouds, the amount of emitted infrared energy escaping to space would not be too different from a world with low clouds.

## Weather Program Office > Programs > EPIC

Technical analysis and writing was done collaboratively by all authors.

## Landsat: Four Decades of Images and Data

How can we be certain that human-released greenhouse gases are causing the warming? Conventional methods of data collection, which require substantial time to conduct and disseminate, have hindered efforts to implement change quickly and effectively.

## **The transition from research to operations in Earth observation: the case of NASA and NOAA in the US**

It should be noted that while CDRs provide detailed information on individual patterns of behavior, the data is proprietary and thus difficult to obtain. When the Sun is quiet, satellites in LEO have to boost their orbits about four times per year to make up for atmospheric drag. Bulletin of the American Meteorological Society, 87: 623-628.

## **The transition from research to operations in Earth observation: the case of NASA and NOAA in the US**

NOAA is working closely with entities in the weather enterprise public, private, and academic to inform the planning, development, and strategy for EPIC.

## **NASA, Partners Name Ocean Studying Satellite for Noted Earth Scientist**

As glaciers retreat, sea ice disappears, and snow melts earlier in the spring, the Earth absorbs more sunlight than it would if the reflective snow and ice remained.

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