

# **Eric Rignot**

**Distinguished Professor and Chair, Earth System Science at UC Irvine**

Irvine, CA, US

Dr. Rignot works to understand the interactions of glaciers and climate and what effects they will have on global sea levels.

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## **Biography**

Dr. Rignot works to understand the interactions of ice and climate, in particular to determine how the ice sheets in Antarctica and Greenland will respond to climate change in the coming century and how they will affect global sea level. He uses satellite remote sensing techniques (imaging radar, laser altimetry, radio echo sounding), airborne geophysical surveys (icebridge), field surveys (radar, GPS, bathymetry, CTD), and numerical modeling (ice sheet motion, ocean circulation near glaciers, coupled ocean/ice sheet models). In addition, he is an expert in how ice sheets in Antarctica and Greenland will respond to climate change, interactions of ice and climate, global sea level, satellite remote sensing and ocean circulation.

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## **Areas of Expertise**

Ice Sheet Dynamics and Mass Balance, Climate Change, Glaciology, Radar

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## **Affiliations**

NASA, JPL

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## **Education**

**Université Pierre et Marie Curie (Paris VI)**

Master's Degree Astronomy and Astrophysics

**Ecole Centrale Paris**

Engineer's Degree Aerospace Engineering

**University of Southern California**

Ph.D. Aerospace, Aeronautical and Astronautical Engineering

**University of Southern California**

Master's Degree Electrical, Electronics and Communications Engineering

**University of Southern California**

Ph.D. and E.E. Electrical Engineering and Aeronautical Engineering

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## **Accomplishments**

### **2017 Louis Agassiz Medal**

Awarded to Eric Rignot for fundamental innovations in the remote sensing of glacier flow, leading to the first assessments of the mass balance of the ice sheets of Antarctica and Greenland.

### **NASA Outstanding Leadership Medal**

2012.

### **Thomson Reuters Highly Cited Researcher**

2014.

### **2007 Nobel Peace Prize (Contributing Author)**

Co-author IPCC AR4.

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