

# NEW OPPORTUNITIES TO STUDY TECTONIC PRECURSORS

## 2019 SPRING MEETING MEDIA

### Opportunities and Challenges in Studying Precursory Phenomena: Overview

Emily Brodsky, University of California, Santa Cruz

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### Panel 1: Scientific Opportunities and Challenges in Studying Precursory Phenomena

Some Precursory Slow Slip Signatures in Chilean Subduction Earthquakes - Sergio Ruiz, Universidad de Chile

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Long Term Transient Deformation Prior to the 2011 Magnitude 9 Tohoku-oki Earthquake - Paul Segall, Stanford University

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### Panel 2: Techniques and Technologies

GRACE Gravity Signals Before a Great Subduction Earthquake - Isabelle Panet, IGN

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Optimizing Subduction Zone Monitoring - Sarah Minson, USGS

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Sea-Surface GPS: Recent Advances - Bruce Haines, NASA

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Towards Establishing Long Term Geodetic Benchmarks on the Seafloor using Underwater Acoustic GPS - Bud Vincent, University of Rhode Island

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Seafloor Pressure Sensors - Spahr Webb, Lamont-Doherty Earth Observatory, Columbia University

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The Use of Seafloor Cabled Observatories to Study Precursory Phenomena - William Wilcock, University of Washington

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Acoustic Ranging and Borehole Tilt - Jeff McGuire, USGS

Permission not granted.

Broadband Earthquake Array Seismology with Fiber-Optic DAS - Nate Lindsey, UC Berkeley

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### Panel 3: Scientific Opportunities and Challenges in Studying Precursory Phenomena

2016 Bombay Beach Swarm and its Effect on the San Andreas Fault - Morgan Page, USGS

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Potential Precursors for Other Earthquakes from Observations of the 2016 Kaikoura Earthquake - Laura Wallace, GNS New Zealand

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