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Workshop: Feature detection in climate data

Wednesday, July 2, 2025 2:00 PM (3 hours)

In the workshop, we follow Jim Gray's approach to data-intensive science to answer scientific questions using Sentinel-2 satellite data. Jim Gray's approach to data-intensive science involves four phases: capturing data, storing and managing data efficiently, exploring data through statistical and computational analysis, and finally visualizing and communicating results. The workshop thoroughly examines each phase and discusses practical methods with participants using widely adopted Python libraries. The hands-on activities focus on characterizing and monitoring wildfire activity in California. While the workshop focuses on this specific use case, participants can use Gray's approach in future projects as a reusable template for answering a wide range of questions with Sentinel-2 data.

Presenter: SIPS, Mike (German Research Centre for GeoSciences)