

Mobile measurements at wildfires

New insights into fire weather, dynamics, and emissions

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CIESRDS

Cooperative Institute for Earth Systems
Research and Data Science

The California Fire Dynamics Experiment

Overview:

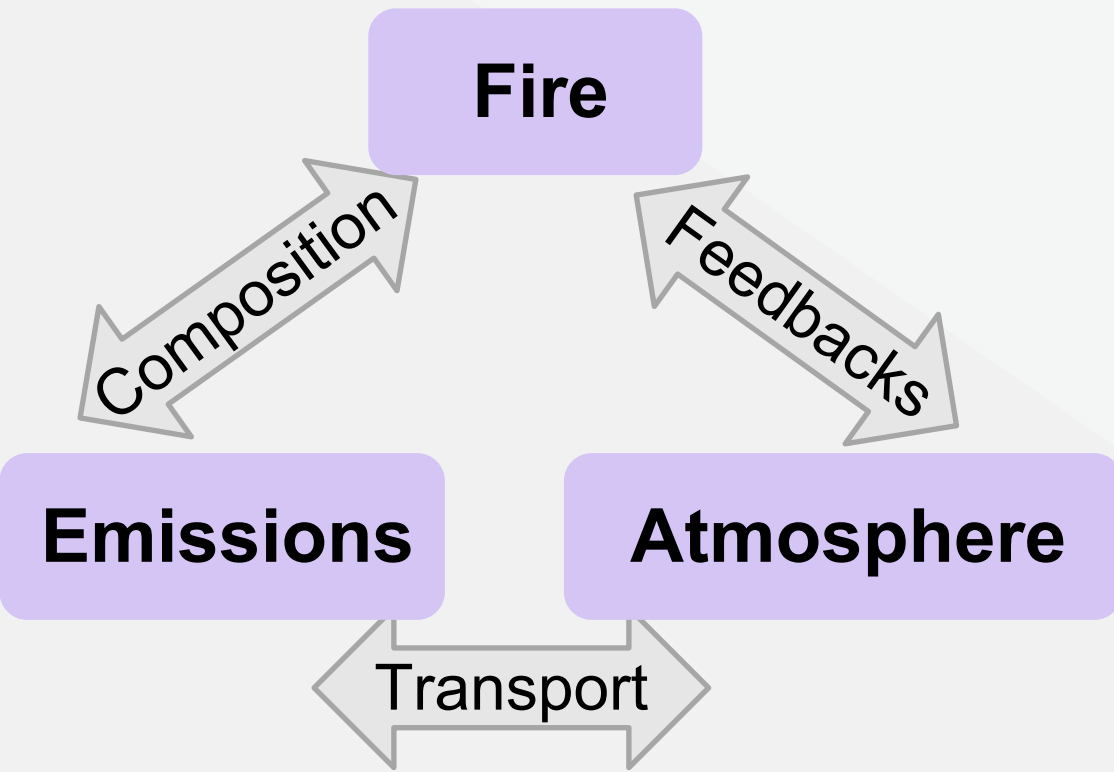
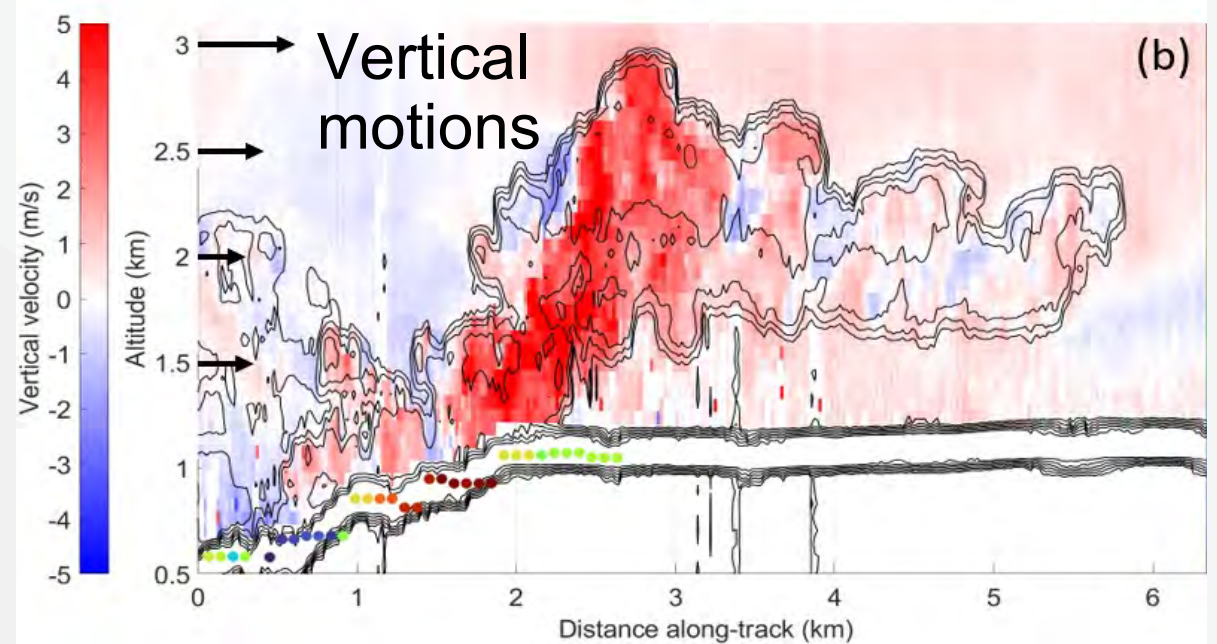
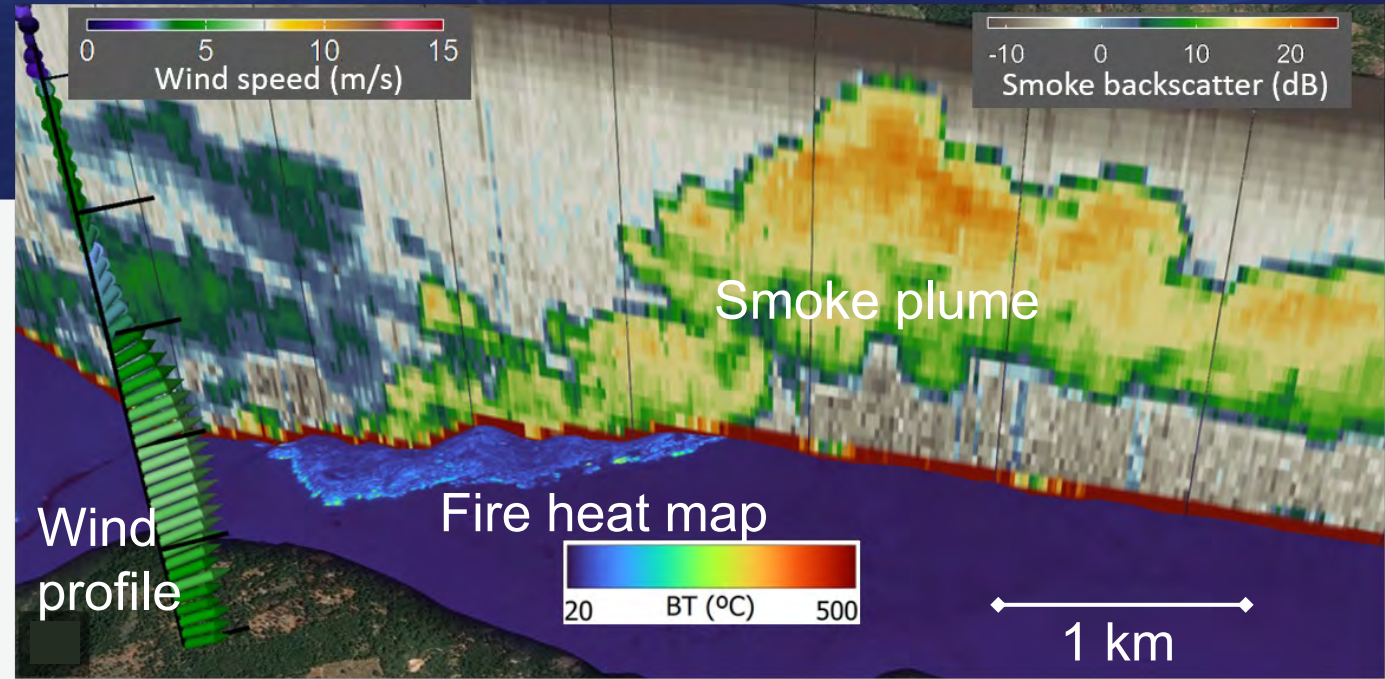
- Led a multi-agency field project measuring coupled fire-atmosphere processes
- Novel synergy of state-of-the-art remote sensing and in situ, on fully mobile platforms

NOAA relevance:

- Improved understanding of wildfires and smoke, enabling better models and forecasting



Holistic fire-atmo observations



Tangible outcomes

Tangible outcomes:

First of their kind simultaneous fire-plume-atmosphere measurements

- 6 journal articles
- 8 presentations
 - California Air Pollution Officers
- 5 press releases

Ongoing analyses:

- Smoke plume evaluation in NOAA weather prediction models
- Fire evolution studies



Thank you!



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