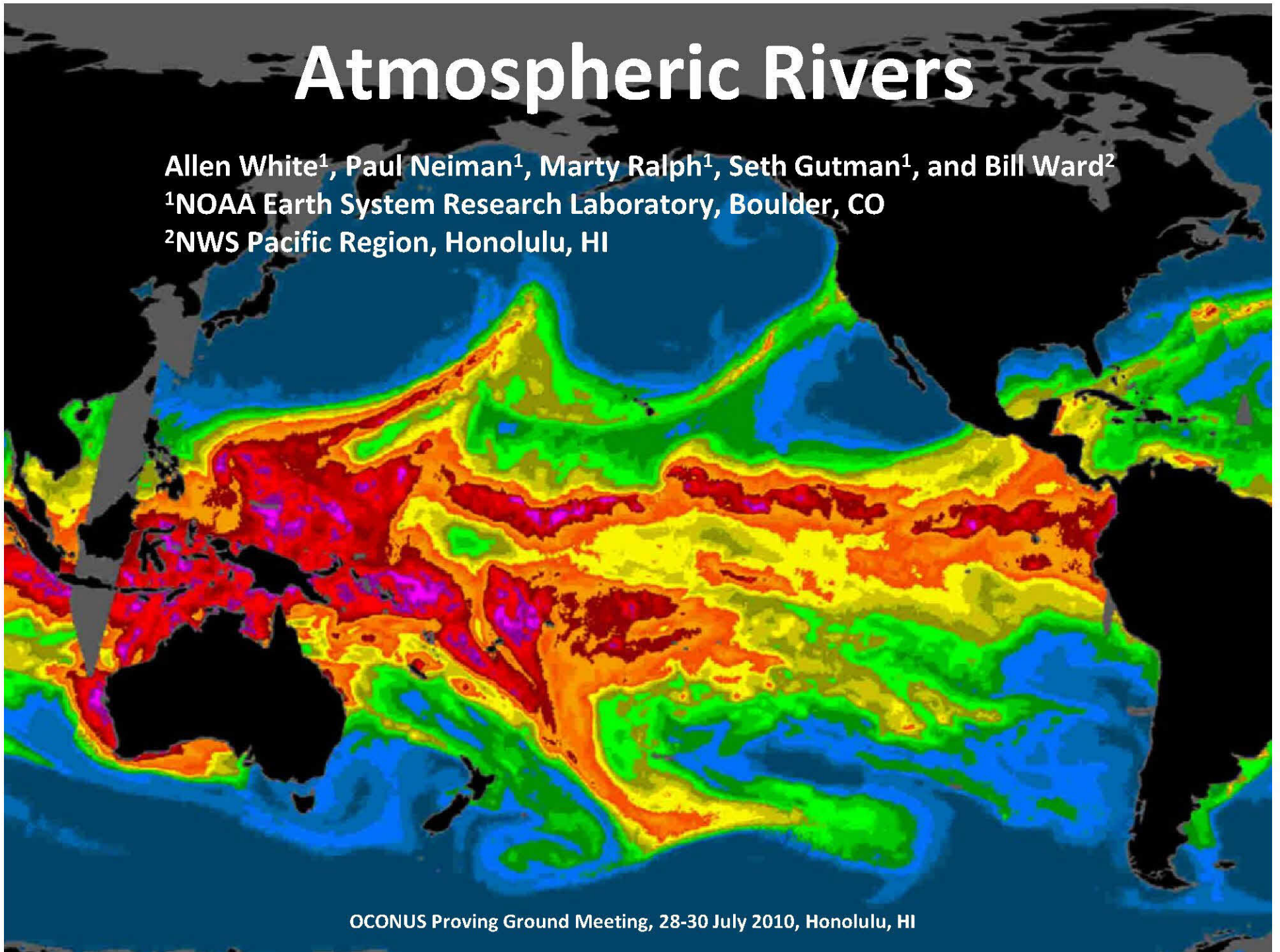


# Atmospheric Rivers

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*Motivation: Atmospheric rivers (ARs) generate devastating floods, and also replenish snowpacks and reservoirs, across the semi-arid West. Hence, it is crucial to understand this key phenomenon, both as a major weather producer and as one that contributes significantly to climate-scale impacts.*

## Outline

1. Brief review of ARs
2. ARs cause extreme precipitation and flooding
3. GPS-Met and satellite cal/val
4. AR observatories

A few acronym definitions:

AR(O) = atmospheric river  
(observatory)

APDF = annual peak daily flow

GPS-Met = Global Positioning System  
Meteorology

LLJ = Low-level jet (airstream)

HMT = NOAA's Hydrometeorology Testbed

IWV = integrated water vapor

NARR = North American Regional Reanalysis

SSM/I = Special Sensor Microwave Imager

