

A black and white photograph of a man with dark, curly hair, wearing a dark leather jacket over a dark shirt. He is sitting at a desk, looking directly at the camera with a neutral expression. His hands are clasped together on the desk in front of him. On the desk, there is a glass of water with a straw, a small ashtray with a cigarette, and a typewriter. The background is a plain wall with some small decorative items. The text "Special Session: Ecological assessment of non-perennial Streams" is overlaid in a large, bold, dark blue font across the center of the image.

# **Special Session:**

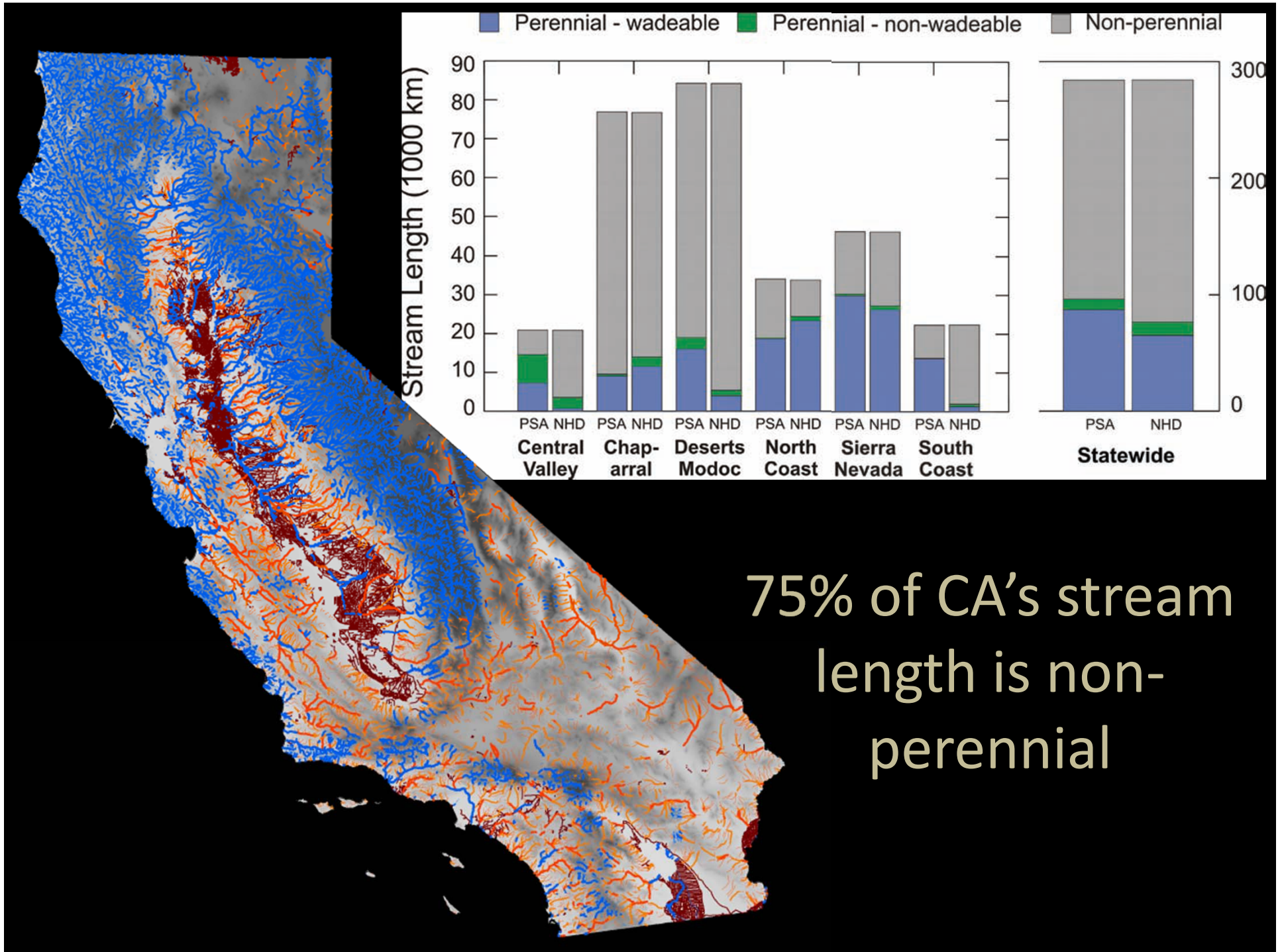
## **Ecological assessment of non-perennial Streams**

# Beyond bio-objectives

## current priorities

1. Multiple indicators of ecological condition (e.g., algae, CRAM, habitat)
2. Better tools for causal analysis (e.g., nutrients, flow alteration, temperature)
3. Healthy streams/ watersheds
4. Beyond wadeable/perennial streams





75% of CA's stream length is non-perennial



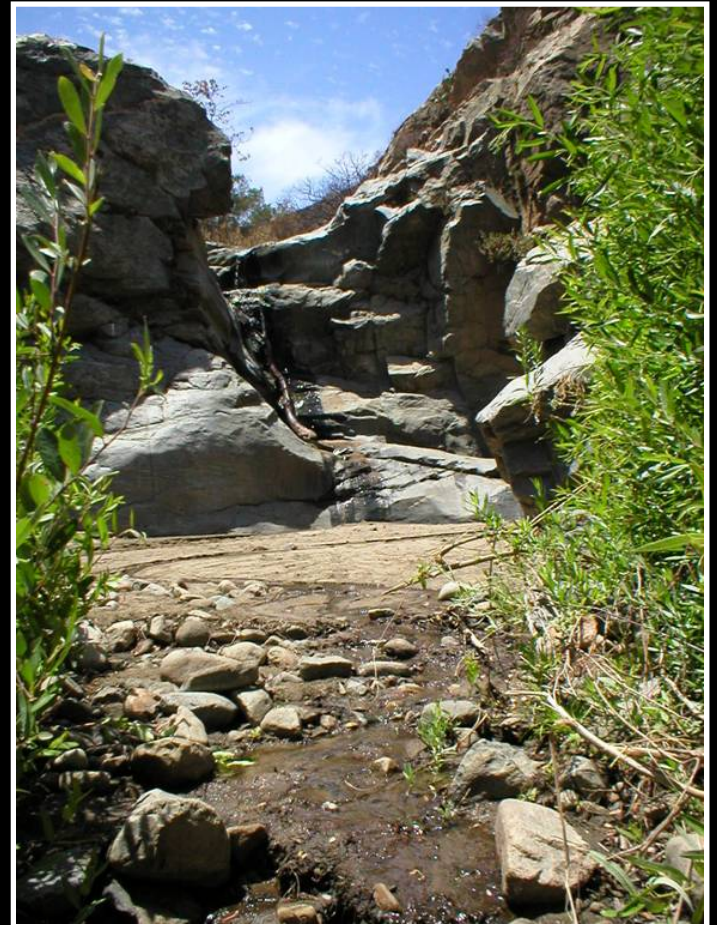
# Why monitor biology in non-perennial streams?

Biodiversity/conservation value

Interface between landscape activities and perennial streams

Potential improvements in linking causal factors and stream health

Landscape – hydrology connection fosters inter-agency coordination (complementary authorities)



Ongoing CA studies in San  
Diego Region, Imperial Valley  
Region and Bay Area (mostly  
SWAMP)

Complementary work in AZ  
and NV

Special session at Society for  
Freshwater Science in  
Portland (Raphael Mazon,  
chair)





# What does flow permanence mean to the biota?

“How does flow permanence affect biodiversity?”

“How does flow permanence affect bioassessment?”

Flow permanence as a continuum rather than categories (perennial/ intermittent/ ephemeral)

