

Protecting Cold Air Pool Habitat for the Less Motile (Control burn in Tuolumne Grove Giant Sequoias 8/31/13)

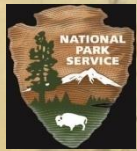
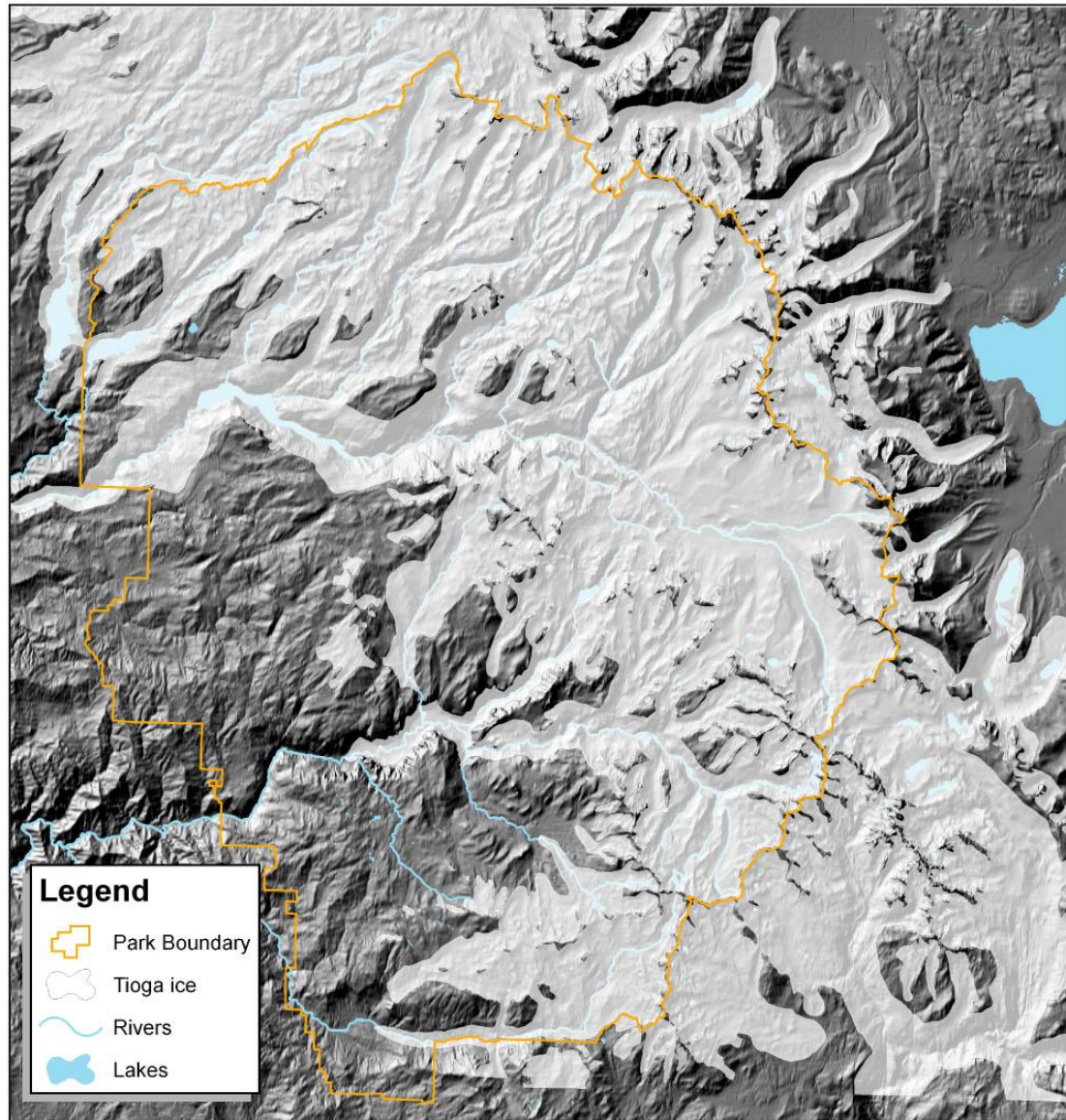


Photo: Garrett Dickman

Extent of 20,000-year-old (Tioga) glaciers in Yosemite National Park and vicinity, California

By Clyde Wahrhaftig and Greg Stock



Legend

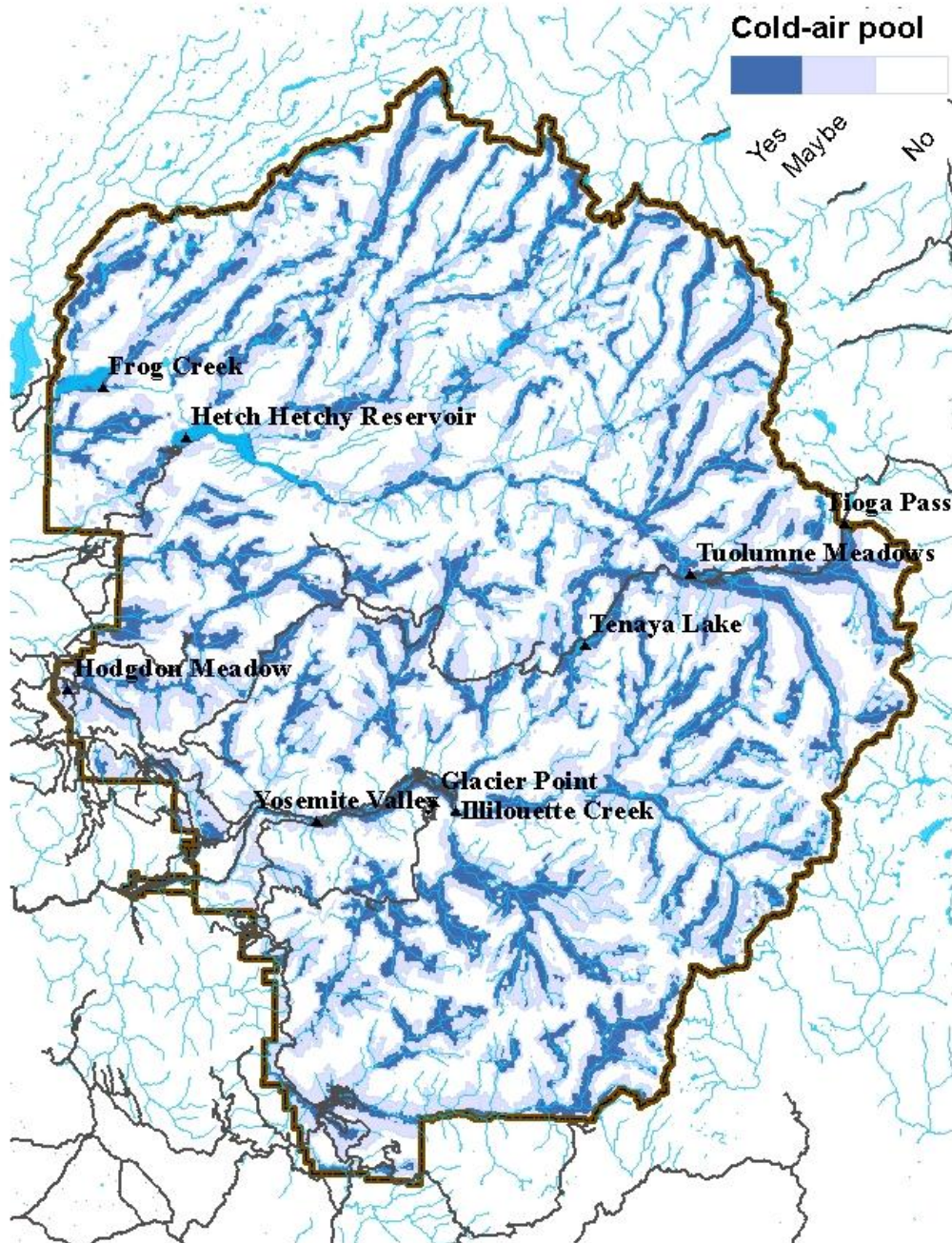
- Park Boundary
- Tioga ice
- Rivers
- Lakes

0 5 10
Kilometers

Kennicott Glacier, Wrangell-St. Elias National Park, Alaska



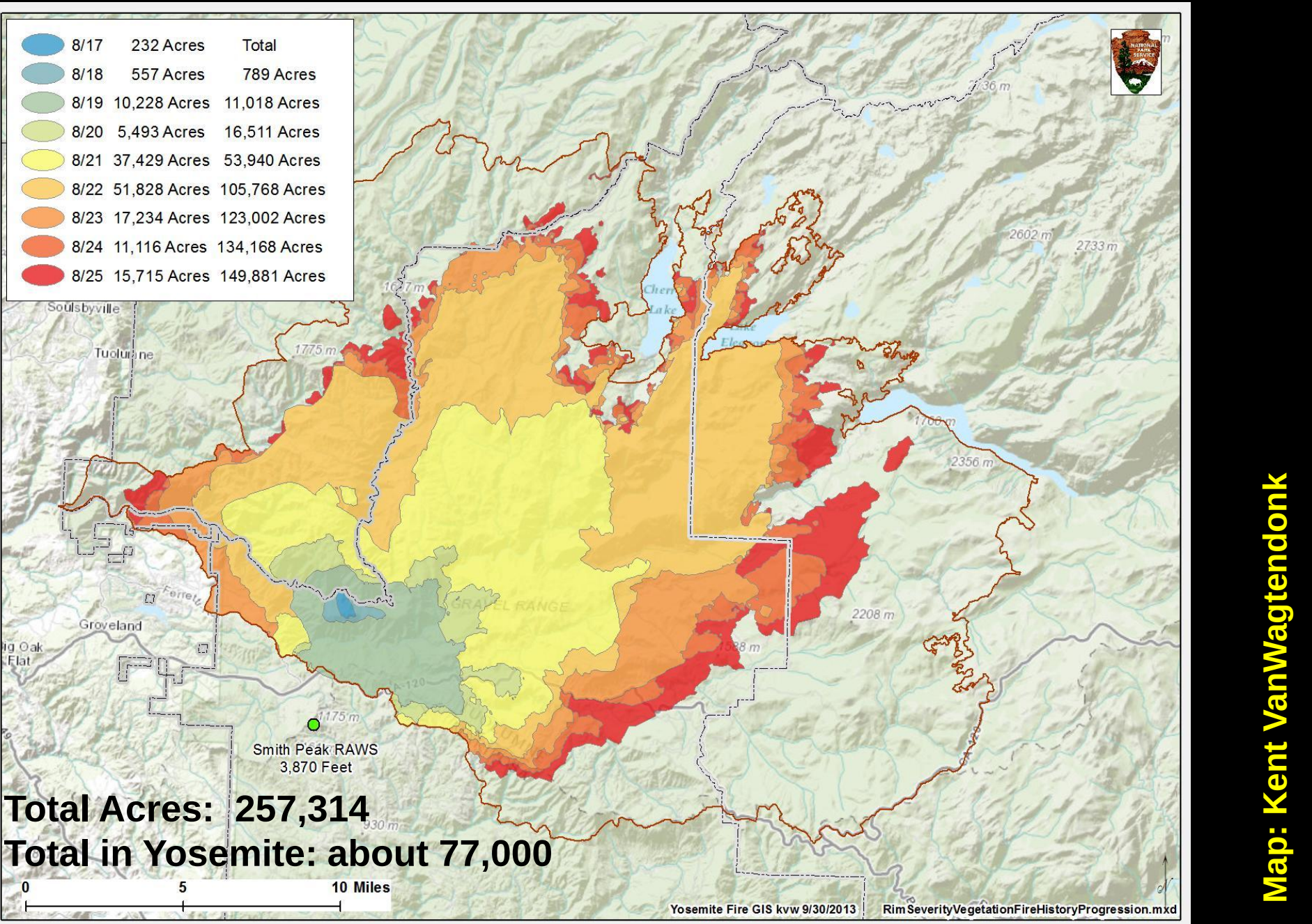
Photo: Greg Stock



Yosemite Cold Air Pools

Map: Kate Wilkin
Model: Jessica Lundquist

And it Grew Fast: Rim Fire Perimeter Progression 8/17 to 8/25





Detail of Yosemite Cold Air Pools

Map: Kate Wilkin



Hetch Hetchy Reserv

Detail of Yosemite Cold Air Pools

Hodgdon Meadow

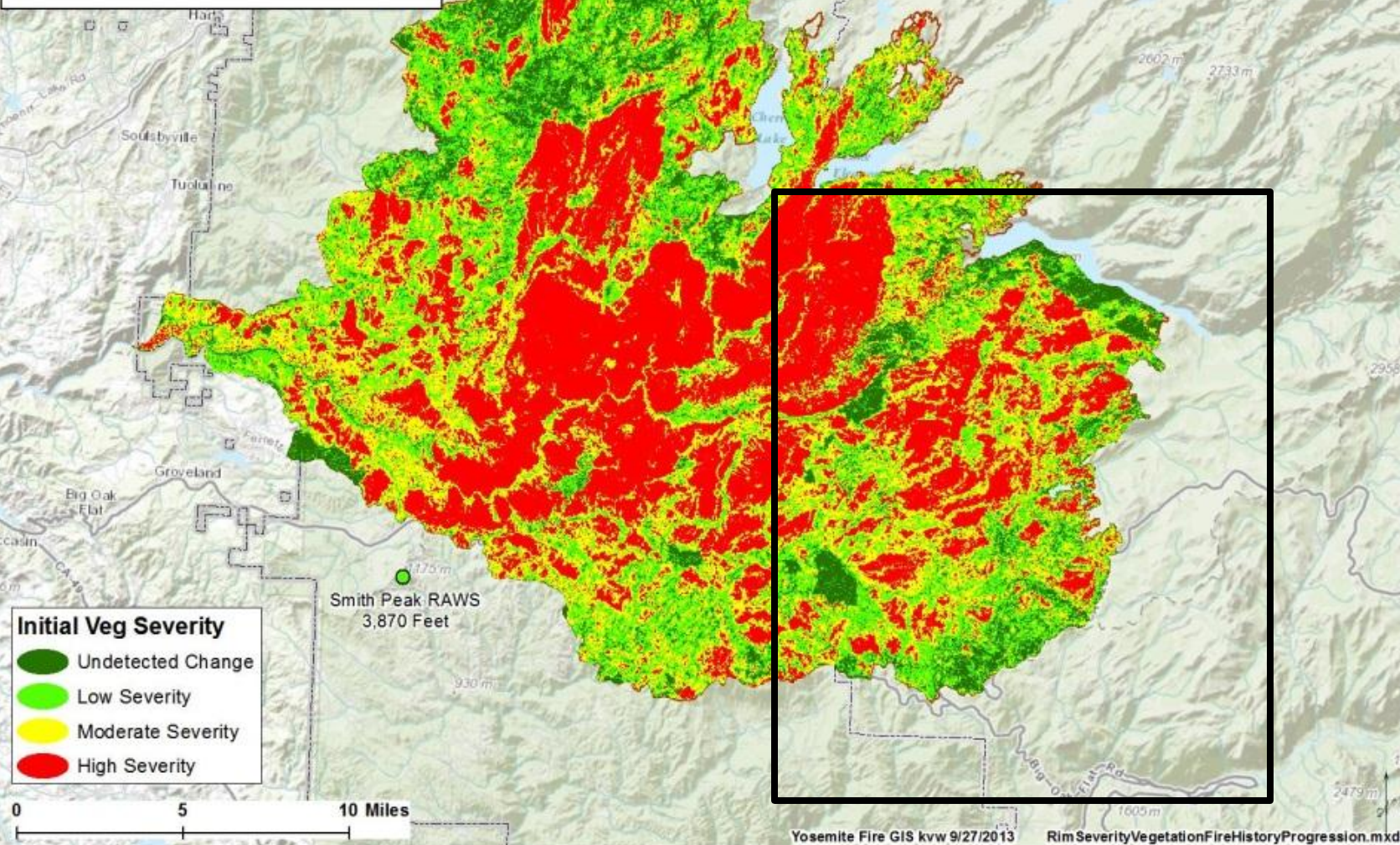
Yosemite Valley

Map: Kate Wilkin

Yosemite Fire History in Rim Fire Area

Rim Fire 9/16/2013
256,363.45 Acres Total

28,507.34 (11%) Undetected Change
59,936.17 (23%) Low Severity
69,074.72 (27%) Moderate Severity
98,085.99 (38%) High Severity



Western Yosemite looking south towards Lake Eleanor



Typical fire-adapted oak-conifer woodland on granite uplands



**Cold air drainage
Forest below
Tuolumne Grove**





Distinct ecology:

- Logs rot!
- Logs function as nurseries



Distinct ecology:

- Logs rot!
- Logs function as nurseries
- Logs host slime mold events



Cascadian flora:

- Southern range limit in Sierra Nevada

Enchanter's nightshade *Circaea alpina*
Trail plant *Adenocaulon bicolor*



Cascadian flora:

- Southern range limit in Sierra Nevada
- Disjunct populations

Hedgehog mushroom *Sarcodon* sp.



Vaccinium sp nov



Cascadian flora:

- Southern range limit in Sierra Nevada
- Disjunct populations
- Incipient speciation

Pigeon Gulch, Merced River Canyon, January 2015



Pigeon Gulch, Merced River Canyon, January 2015



Big tree with accumulated duff pile around trunk



Big tree prepped for prescribed burn





Photo: Martin Hutten

Resource advisor flagging would-be champion sugar pine as “do not cut” during 2013 Rim Fire



Photo: Martin Hutten

Patchy 2011 Rx Burn Hodgdon in June 2012



The Carl Inn at the old Hogdon Entrance Station





**Albert Bierstadt
Hetch Hetchy Canyon
1875**