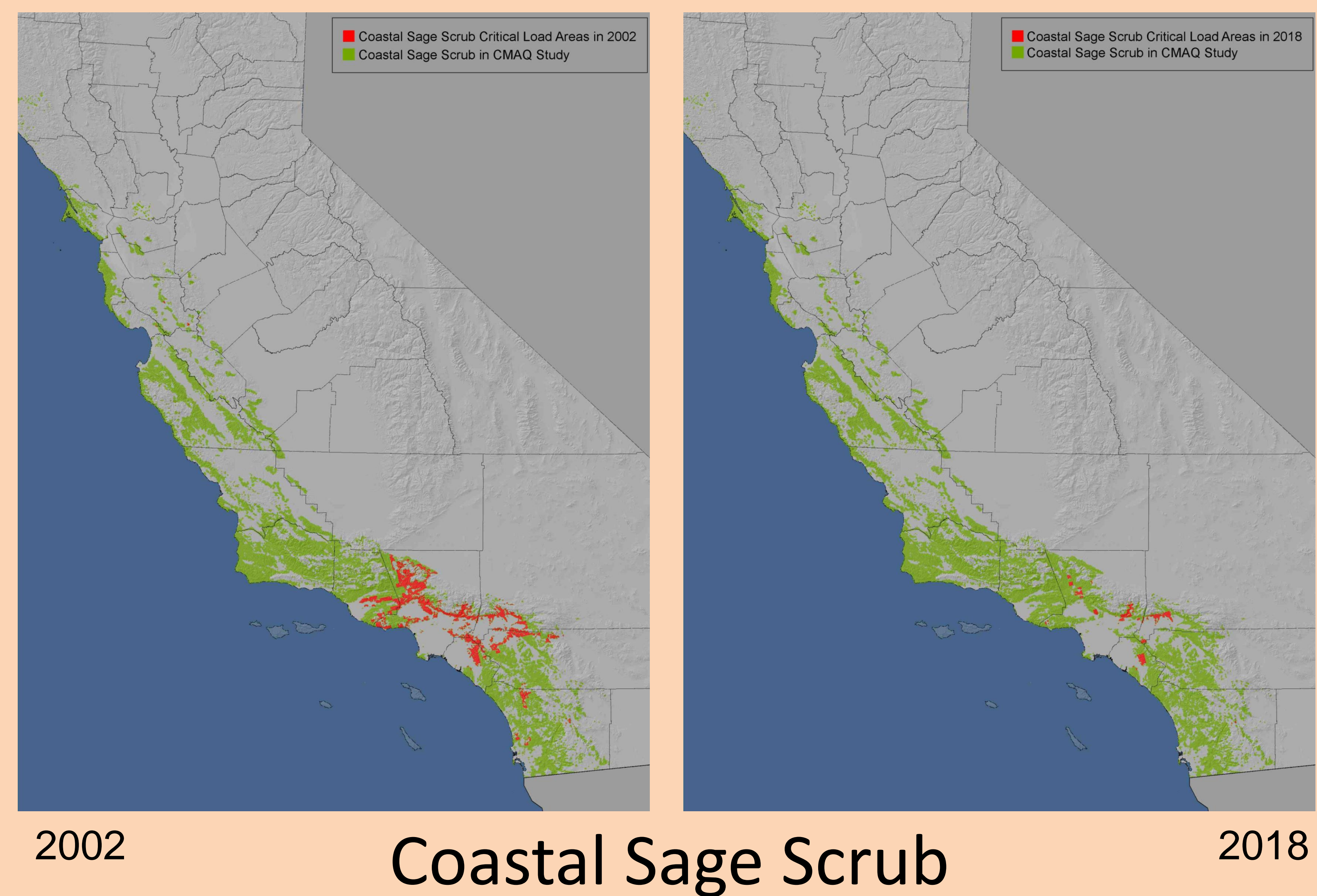


2002

Chaparral

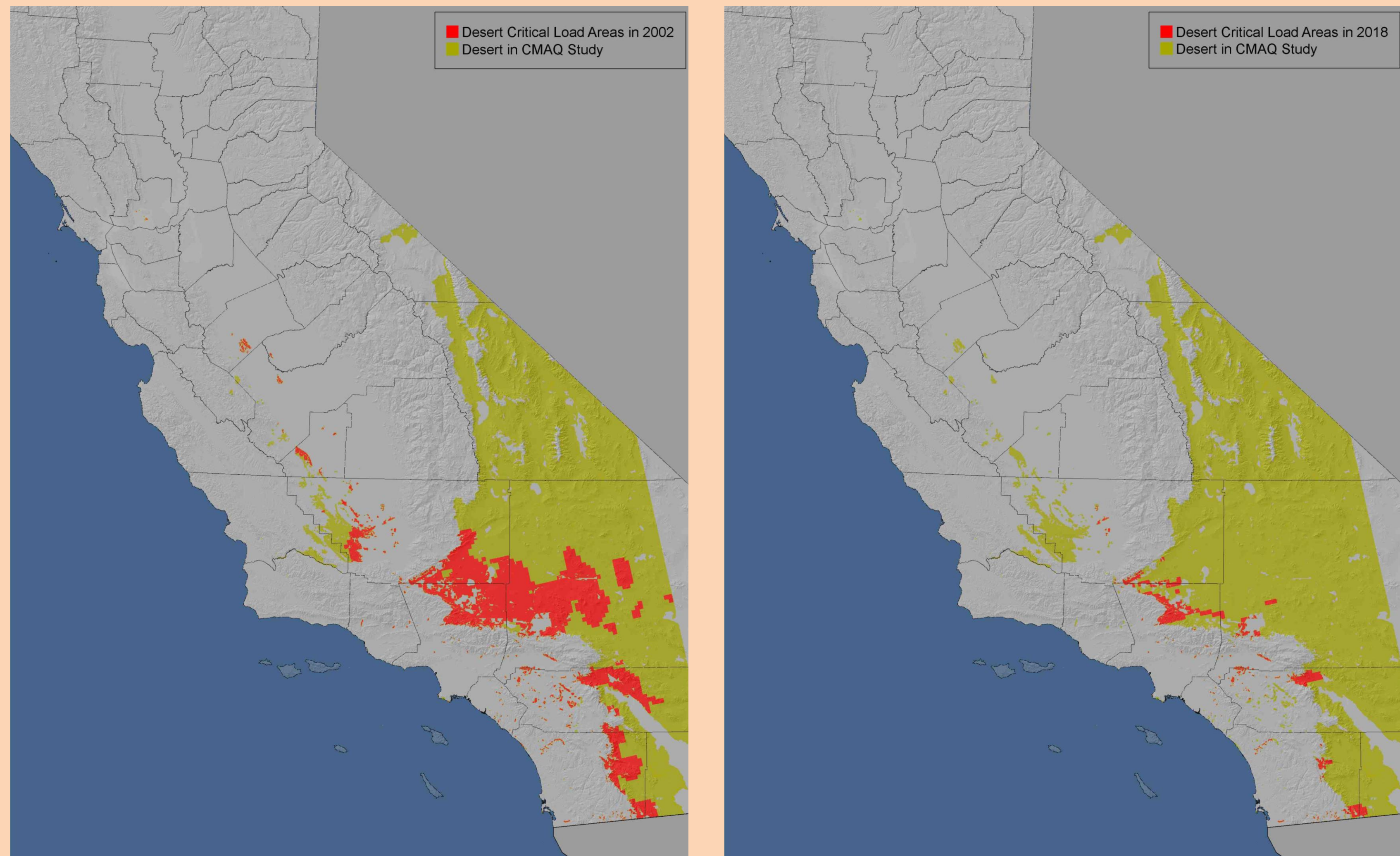
2018



2002

Coastal Sage Scrub

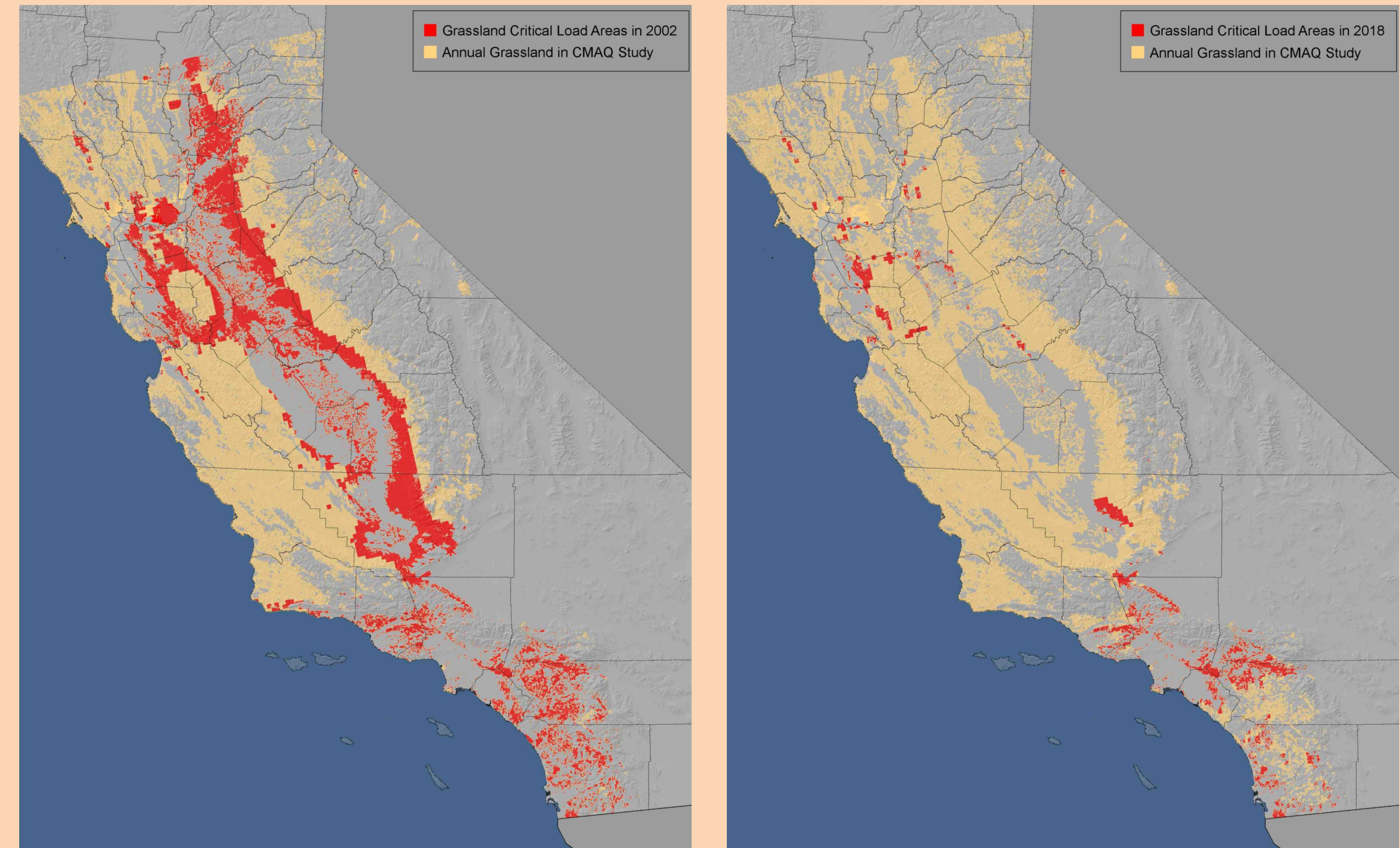
2018



2002

Desert

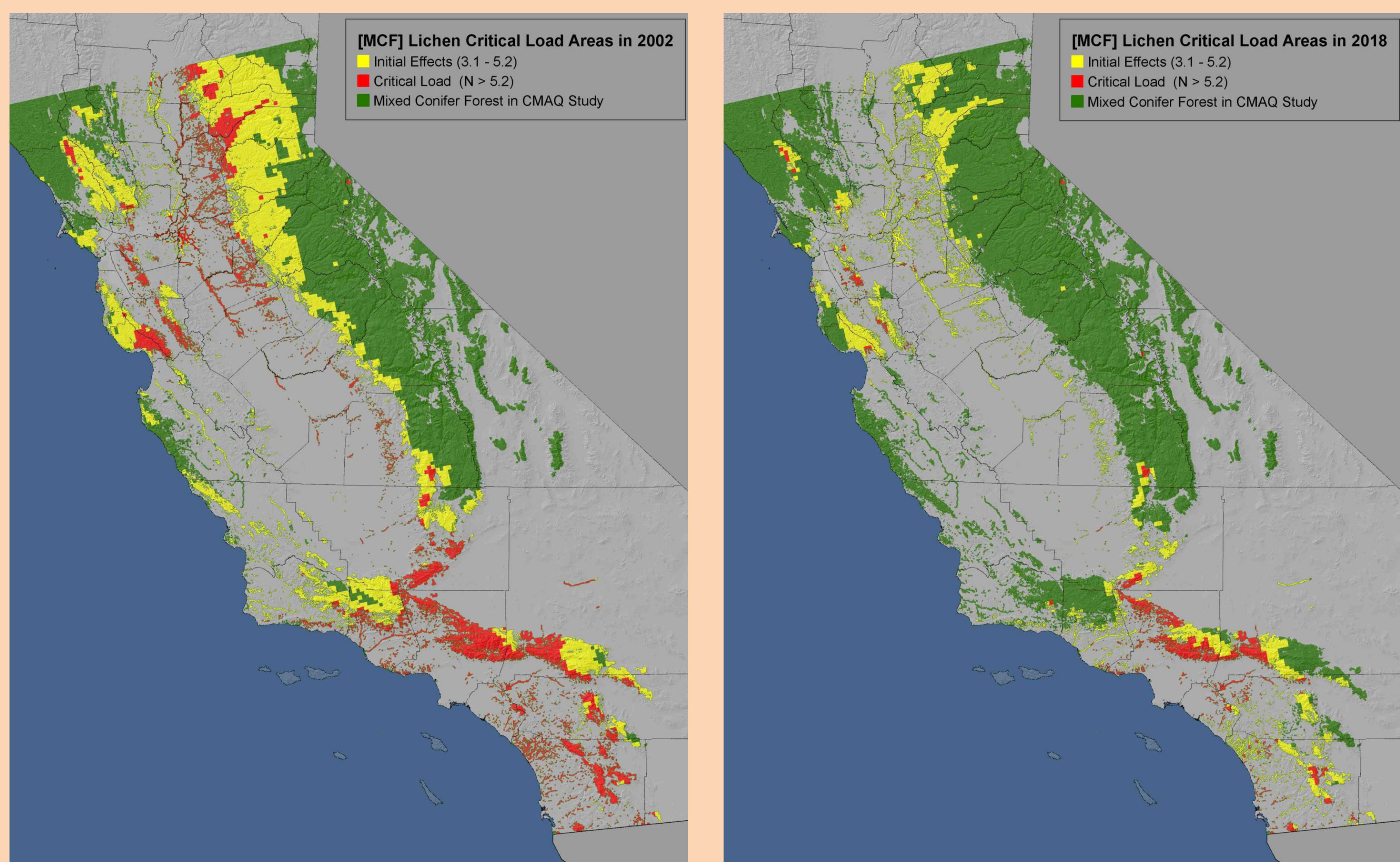
2018



2002

Grassland

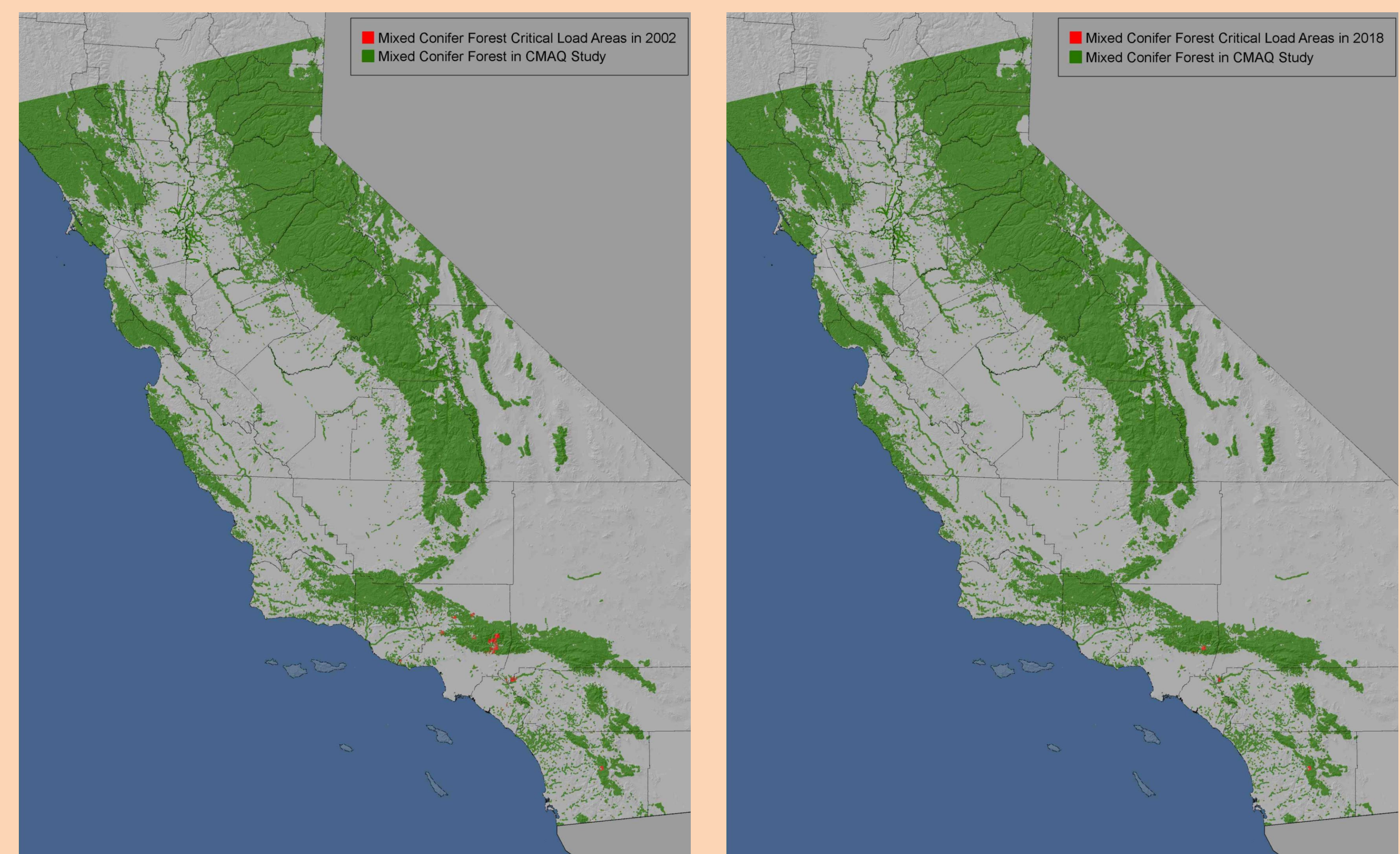
2018



2002

Lichen in Mixed Conifer Forest

2018



2002

Mixed Conifer Forest

2018

RECENT AND PROJECTED NITROGEN DEPOSITION AT CRITICAL LEVELS FOR SELECT VEGETATION COMMUNITIES

This series of maps illustrates the distribution of six vegetation types within a portion of the State of California and the areas where those types suffer an adverse effect from excessive nitrogen deposition coming from anthropogenic sources. Colored areas show the extent of each vegetation type within the study area. Those areas that exceed identified critical loads are shown as red in all maps. Areas of initial effect of deposition levels are shown as bright yellow only in the lichen map. Criteria for critical loads vary by vegetation type: loss of plant diversity for CSS and lichens, excess N in runoff for forest and chaparral, fire fuel load in grassland and desert. Nitrogen deposition was modeled for two years; 2002 is based on recorded emissions data and 2018 is based on projected emissions. Nitrogen deposition was not modeled for the entire state; the vegetation stops abruptly at the edge of the area where nitrogen deposition was calculated for this study.

| | Chaparral | Coastal Sage Scrub | Desert | Grassland | Lichen | Mixed Conifer Forest |
|----------------------------------|-----------|--------------------|--------|-----------|--------|----------------------|
| Critical Load (Kg N/ha/yr) | 14 | 10 | 5 | 5 | 5.2 | 17 |
| Total Area within Study (sq. Km) | 33,104 | 6,837 | 63,907 | 37,067 | 49,716 | 49,716 |
| Area Above Critical Load 2002 | 331 | 1,003 | 12,271 | 15,208 | 4,879 | 51 |
| Area Above Critical Load 2018 | 41 | 176 | 1,235 | 1,982 | 1,147 | 11 |