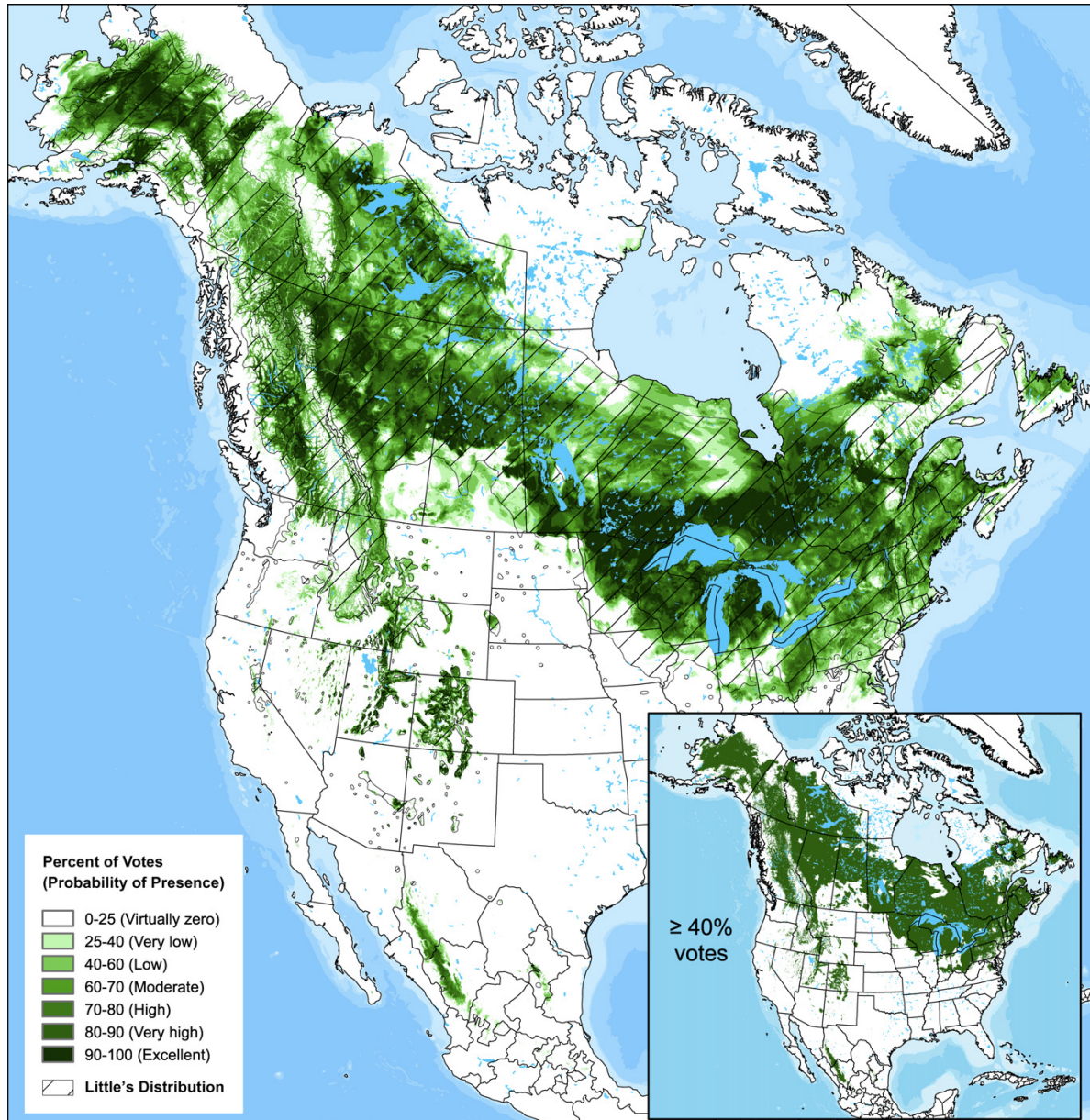


Sudden aspen decline

distribution of fundamental niche of aspen based on species distribution model



Worrall et al., Forest Ecology and Management, 2013

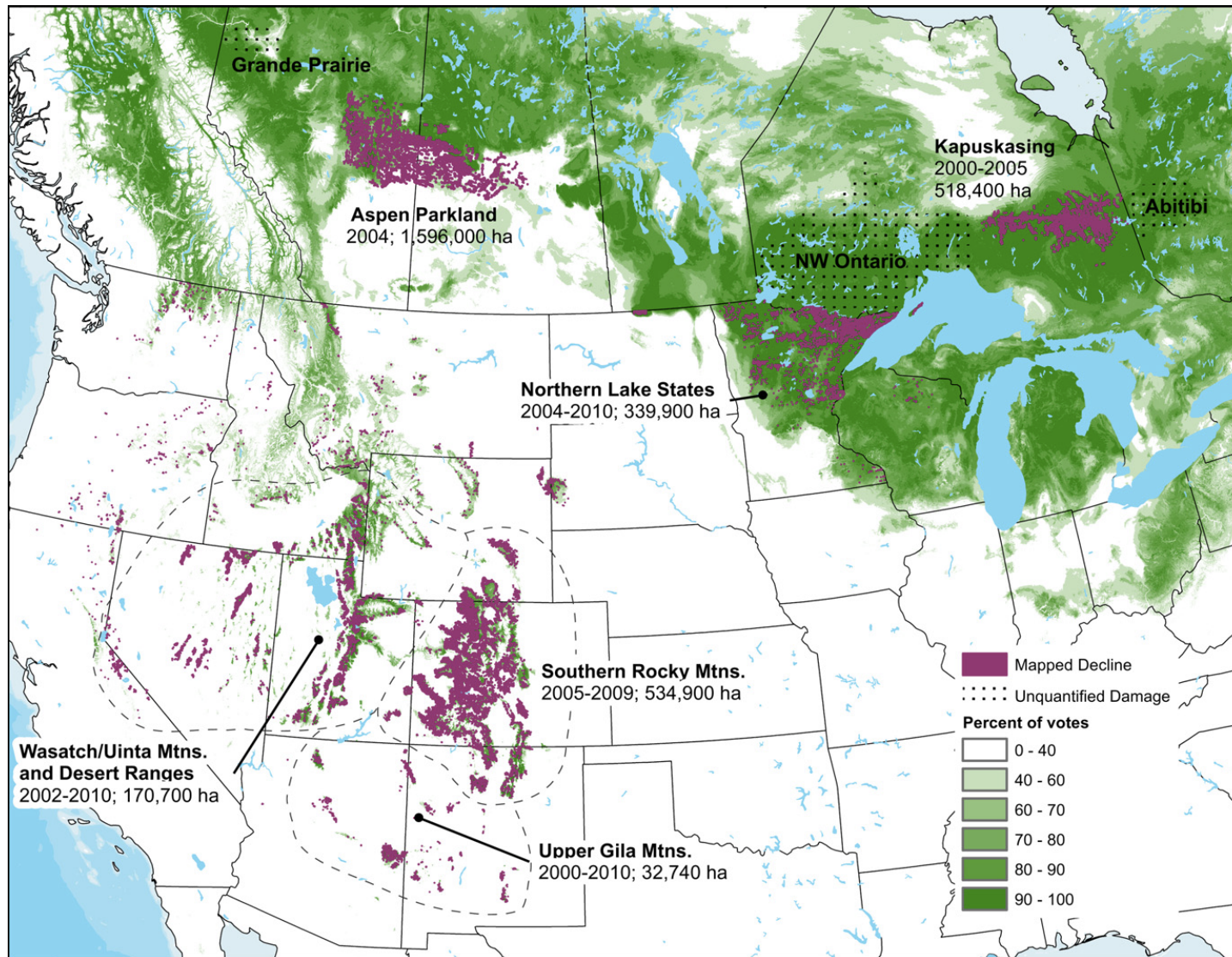
Sudden aspen decline



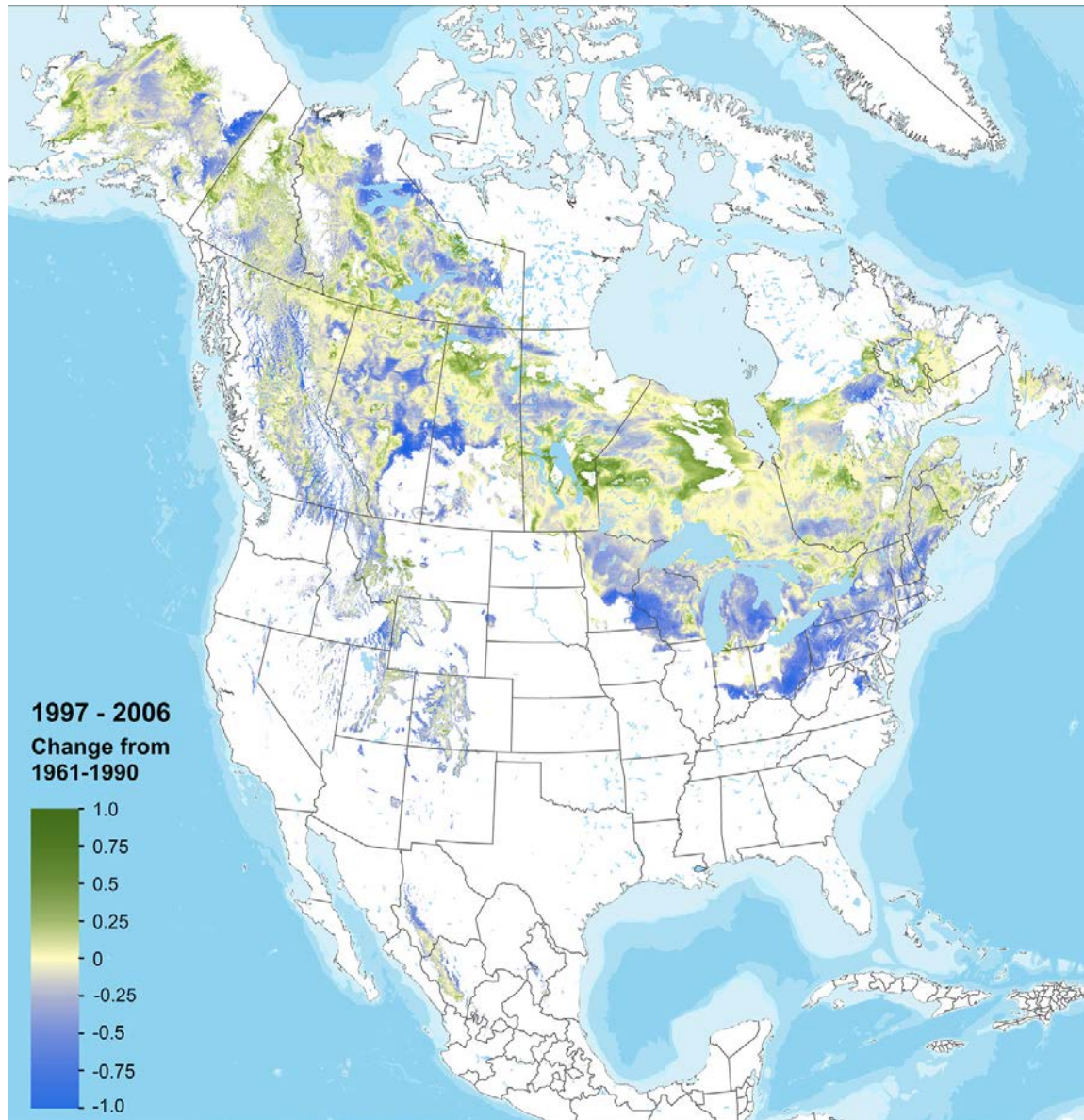
Photo courtesy of W. Anderegg

Sudden aspen decline

locations of SAD



Sudden aspen decline

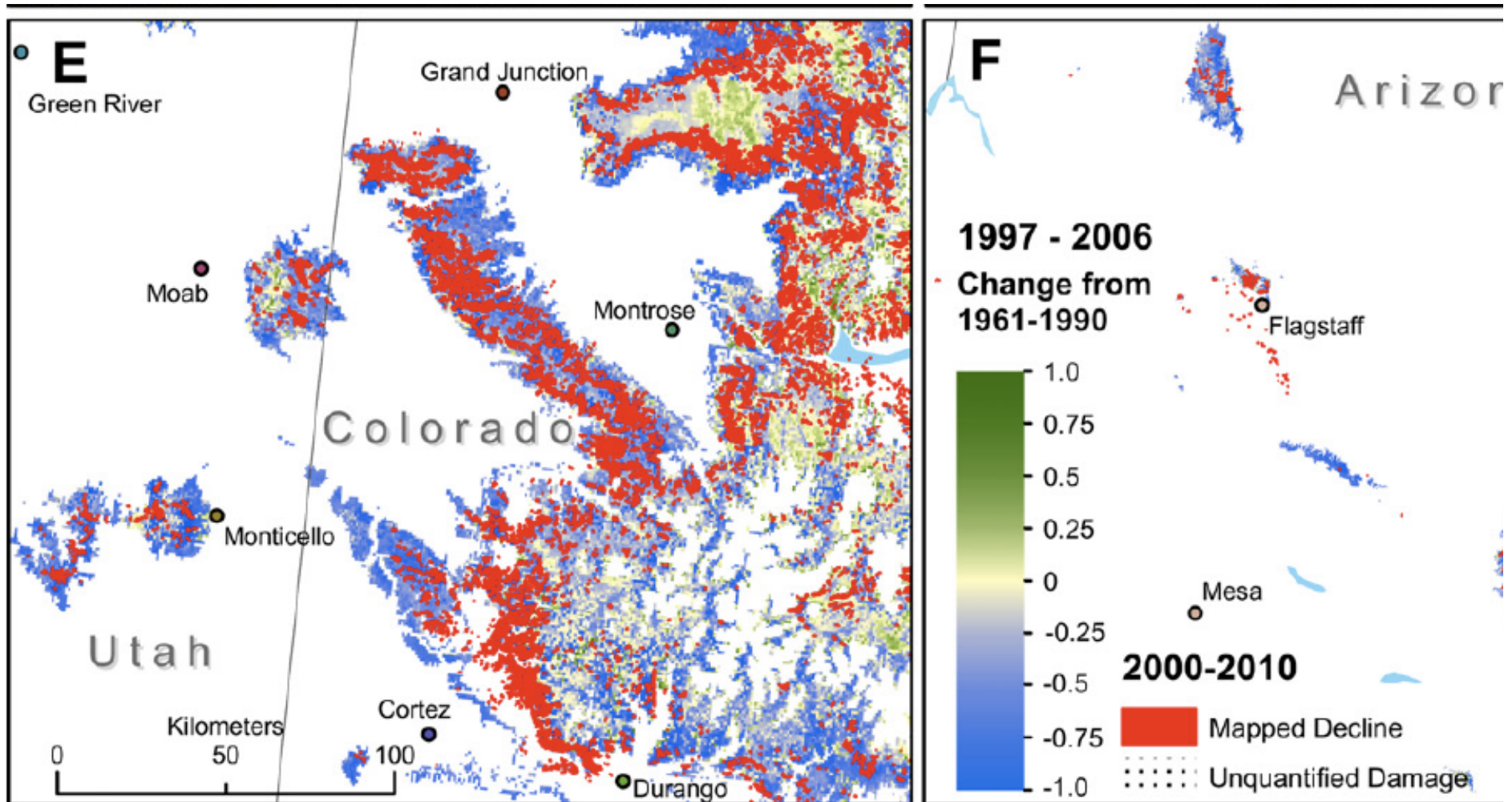


stress induced by recent
changes in climate

*Worrall et al., Forest Ecology and
Management, 2013*

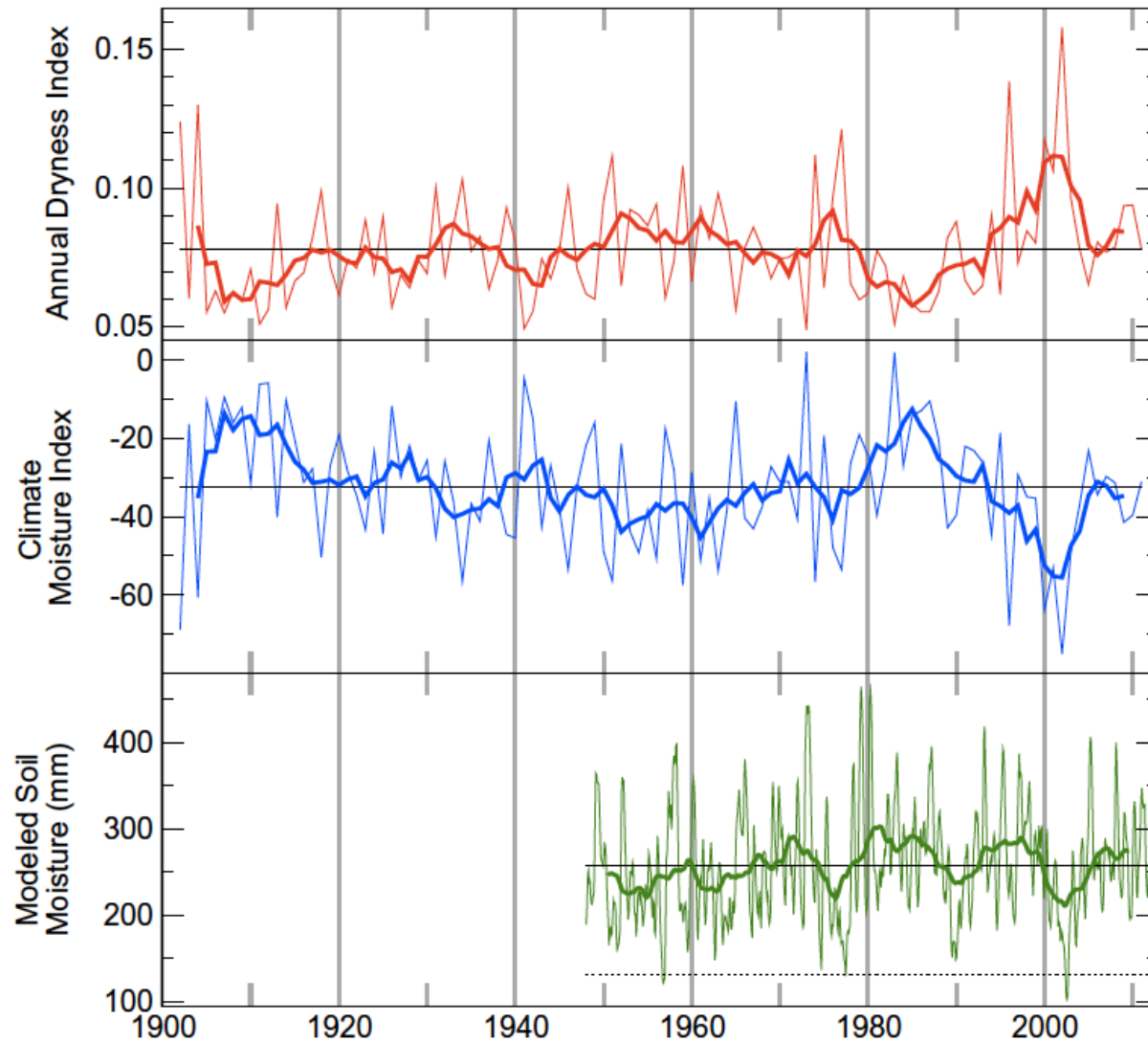
Sudden aspen decline

modeled stress (blue) and observed decline (red)



Sudden aspen decline

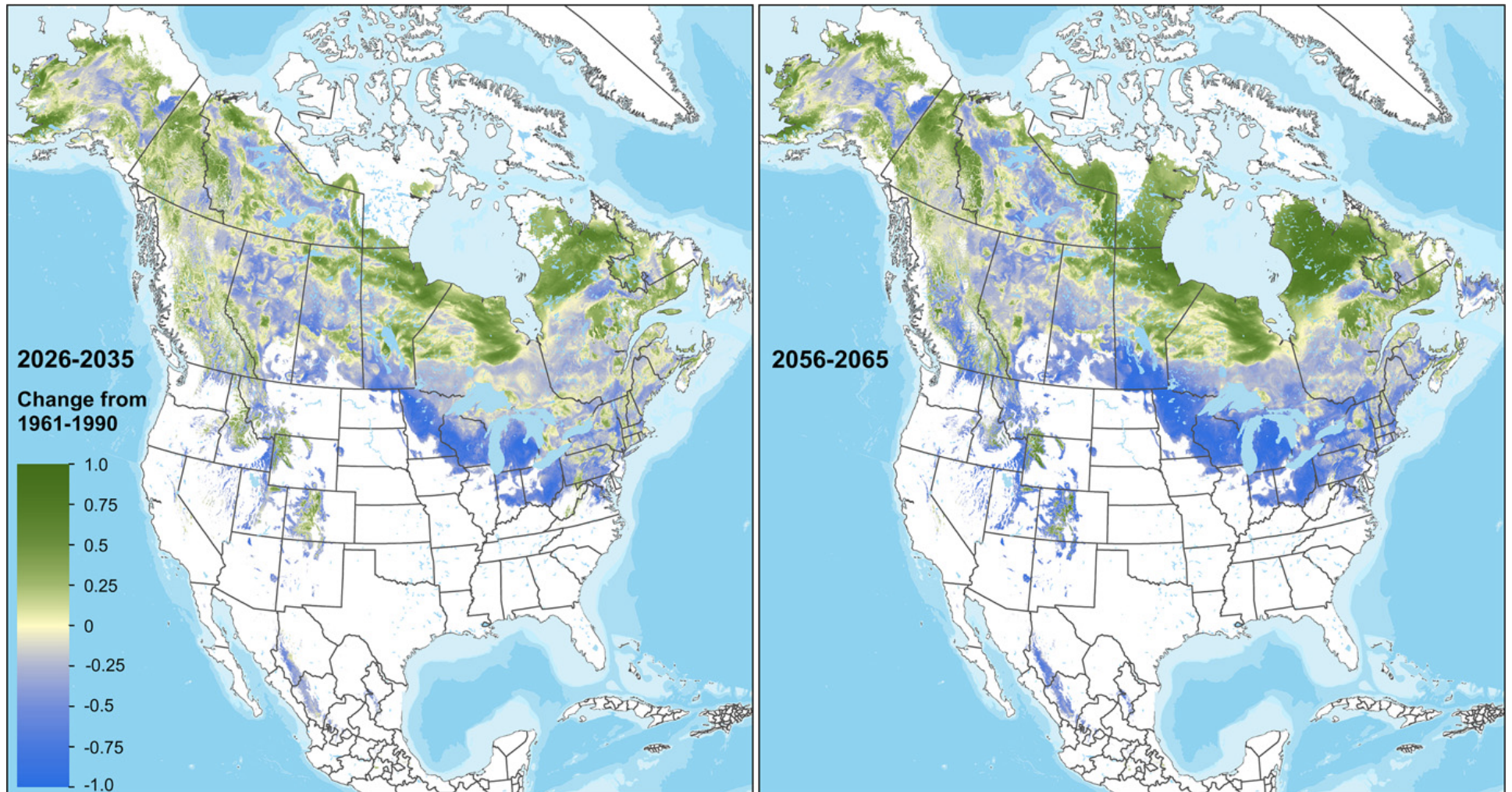
Climate in last 100 years in Colorado



Worrall et al., Forest Ecology and Management, 2013

Sudden aspen decline

projections of future climate stress



Worrall et al., Forest Ecology and Management, 2013