

# Ecosystem management for conflicting goals

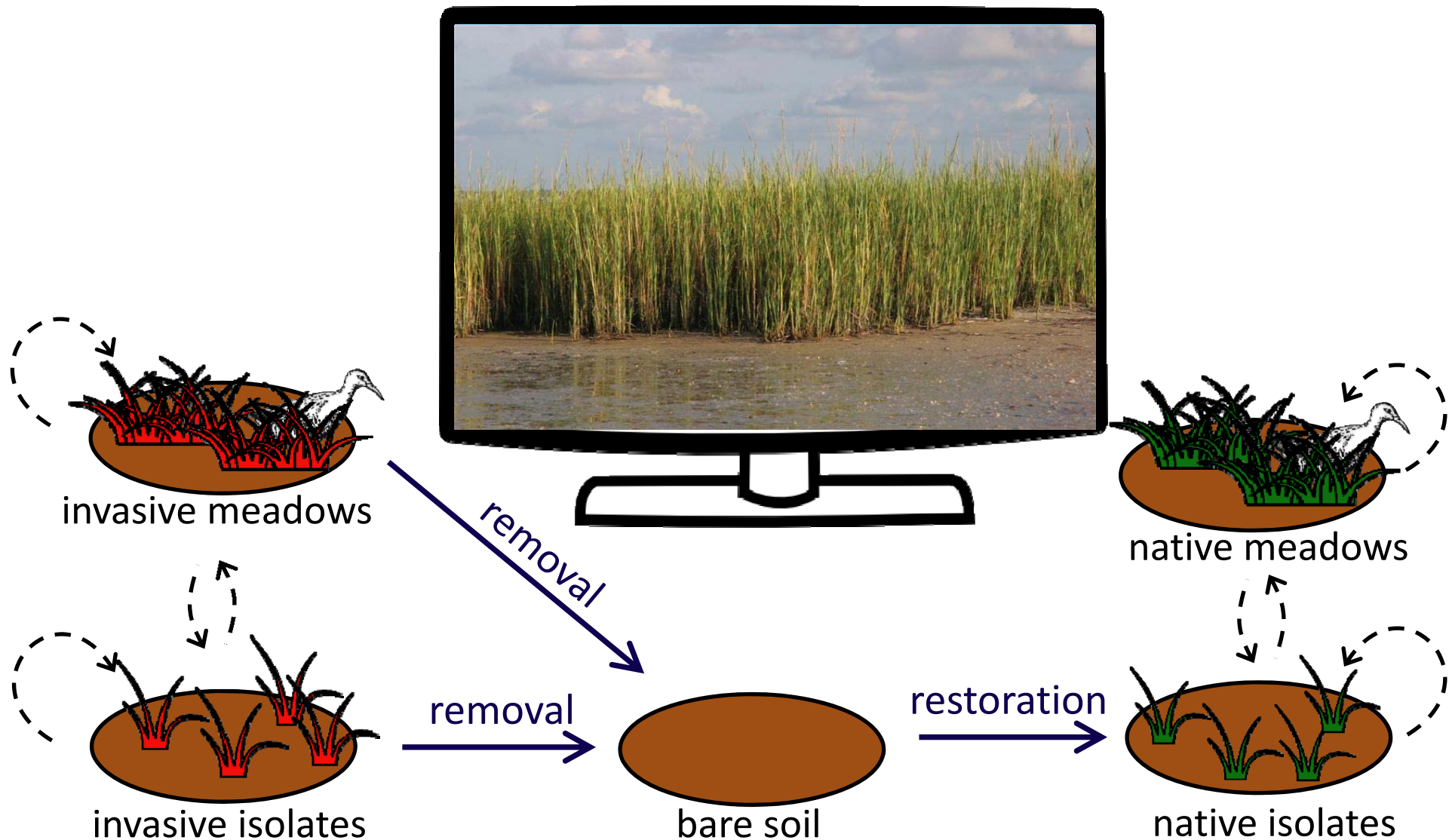


Adam Lampert, Alan Hastings, Ted Grosholz,  
Sunny Jardine & Jim Sanchirico

Dept. of Environmental Science and Policy, University of  
California, Davis

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# Hybrid *Spartina* eradication conflicts with endangered species recovery



# Optimal management entails longer time scales

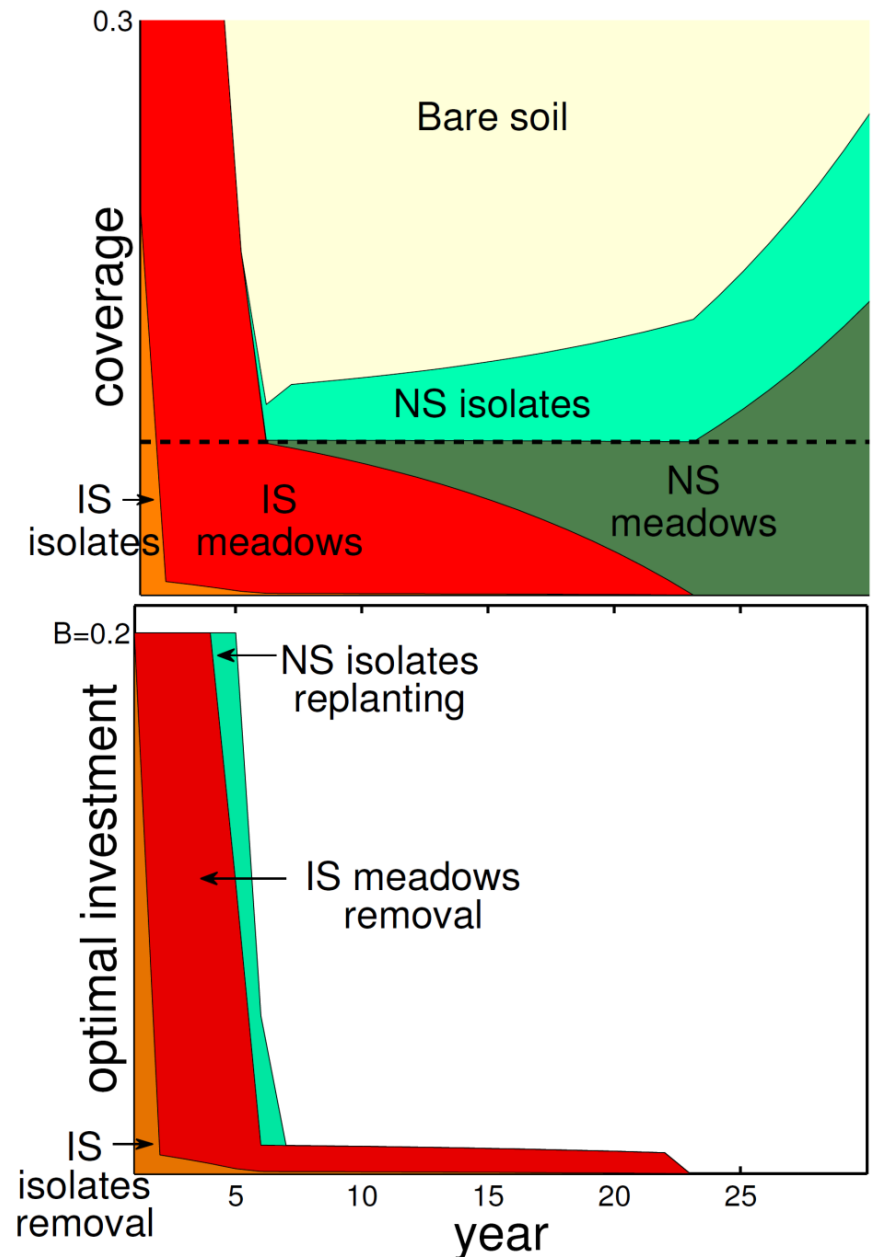
## Methods

- Optimal control.
- Constraining the meadows (invasive + native).
- Field data for parameterization.

## Results

- Less intensive treatment over longer timescales to fit with natural processes.
- Flexible timing of expenditures.

A. Lampert *et al.*, Science, 2014



# Implications for ecosystem-based management

Managers should simultaneously consider multiple goals.

Conflicting goals may constrain one another (not a simple tradeoff).

Managing conflicting goals entails less intensive and more flexible treatment.





# Acknowledgements

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## Collaborators

- Ted Grosholz
- Jim Sanchirico
- Sunny Jardine

## Contact details

Adam Lampert, Ph.D.,  
Postdoctoral fellow,  
Dept. of Environmental Science and Policy,  
University of California, Davis  
Email: [alampert@ucdavis.edu](mailto:alampert@ucdavis.edu)  
Phone: 530-601-3839

