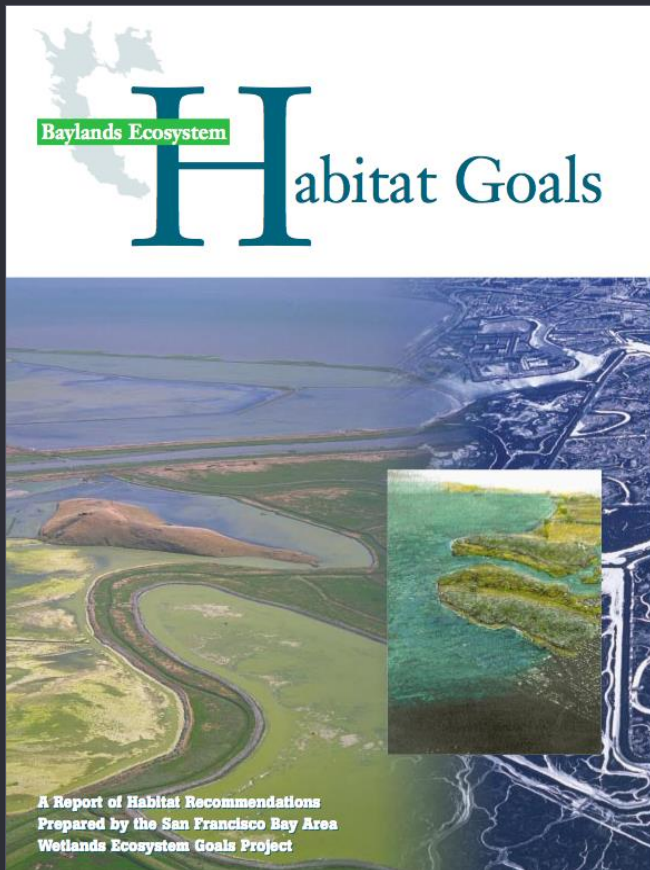


# Baylands Ecosystem Habitat Goals

## Science Update 2014



*Protecting and Enhancing  
the Bay's Ecosystems  
through the 21<sup>st</sup> Century*

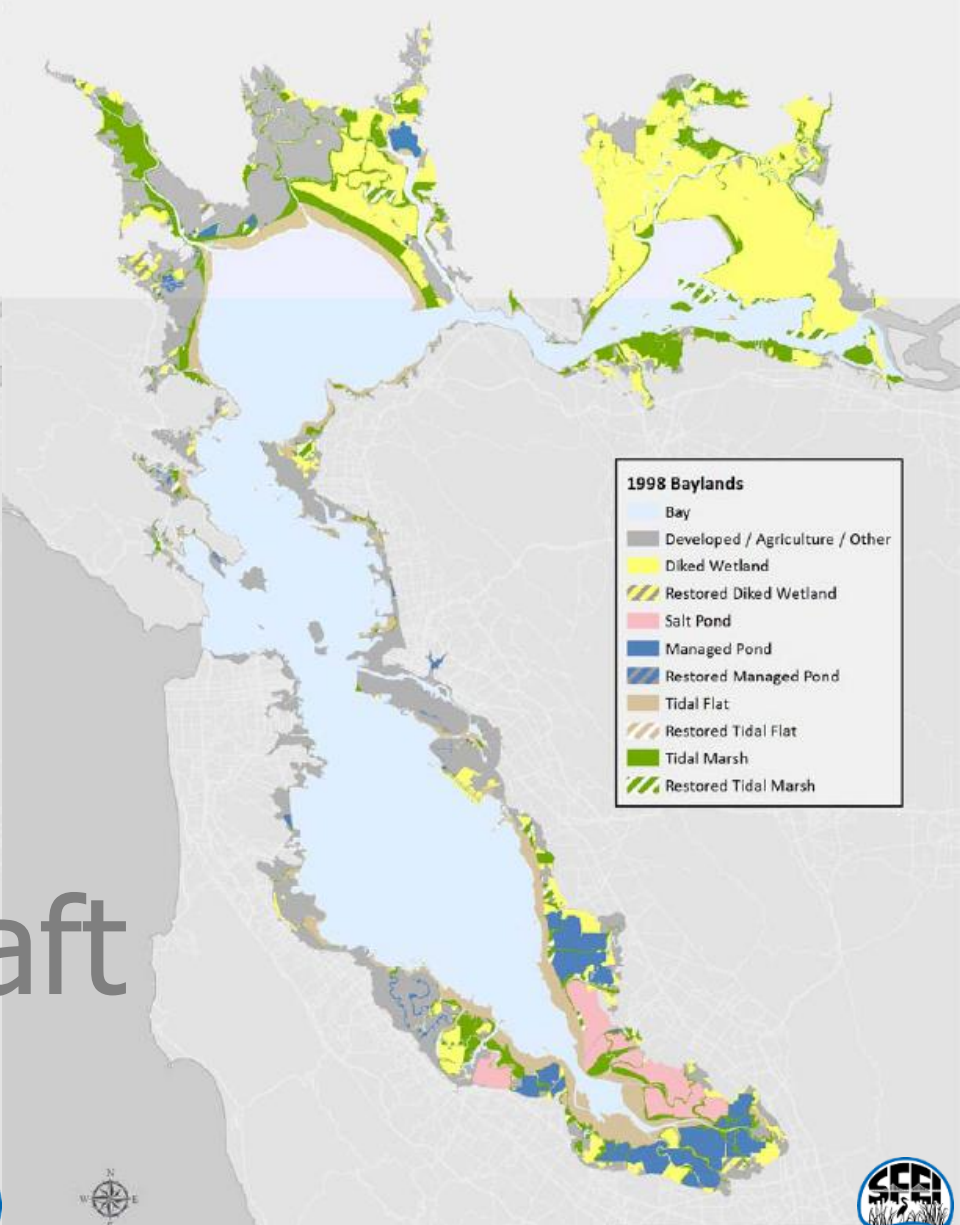
[YOUR EVENT]  
[DATE]

# Success of the 1999 Baylands Goals

- ▶ Largest restoration project went from 350 acres to 15,000 acres
- ▶ Written in to policy
  - Water Board, BCDC, SCC, SFBJV, etc.
- ▶ Dramatic increase in funding
  - SBSP, Prop 50, Restoration Authority
- ▶ Inspired other Goals projects
  - Uplands, Subtidal

1800

1997



Draft



Wetland Data from SFI includes: BAAR (2005, v1.5-4b (1997 and 1850), and wetland tracker data (2020).



Wetland Data from SFI includes: BAAR (2005, v1.5-4b (1997 and 1850), and wetland tracker data (2020).

# *THE BAYLANDS AND CLIMATE CHANGE: WHAT WE CAN DO*



- ▶ Science synthesis and recommendations
- ▶ Effect of future change, especially climate change, on the Baylands
- ▶ Processes and functions in addition to habitat
- ▶ Planned for release in early 2015

# Threats Assessed

- ▶ Sea level rise
- ▶ Rising Temperature
- ▶ Changes in Precipitation
- ▶ Sediment supply
- ▶ Freshwater inflows
- ▶ Salinity
- ▶ Nutrients



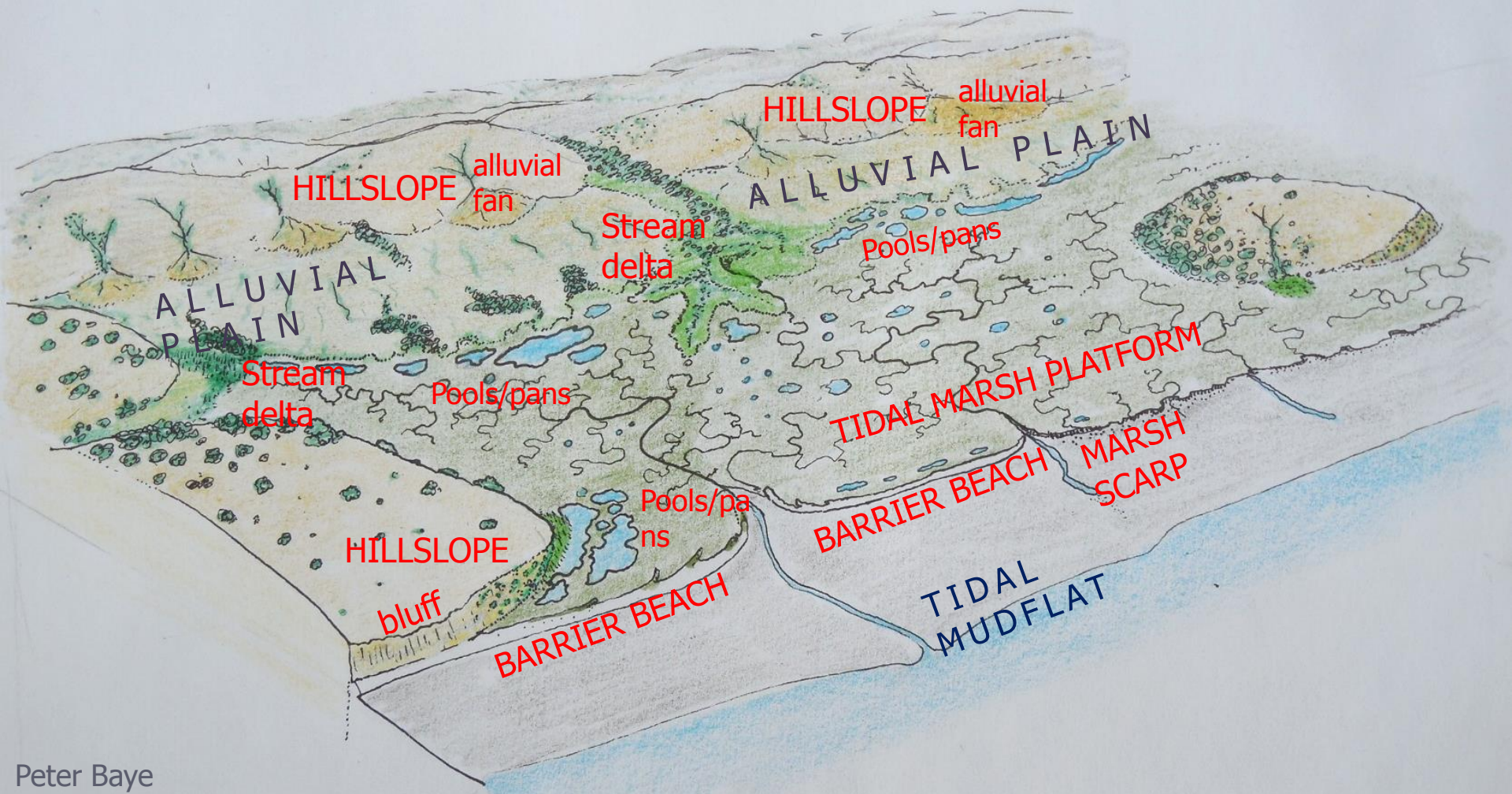
# Regional Vision

## ▶ **Near-Term**

- A diverse, connected mosaic of Baylands and adjacent habitat types
- Complete tidal wetlands ecosystems
  - ▶ mudflats, low marsh, marsh plain, high marsh, natural levees along channels, and broad transition zones

## ▶ **Long-Term**

- Viable Baylands habitat mosaics migrating landward in open spaces or up low-slope levees
- Loss of habitat extent offset by better connectivity and management of stressors



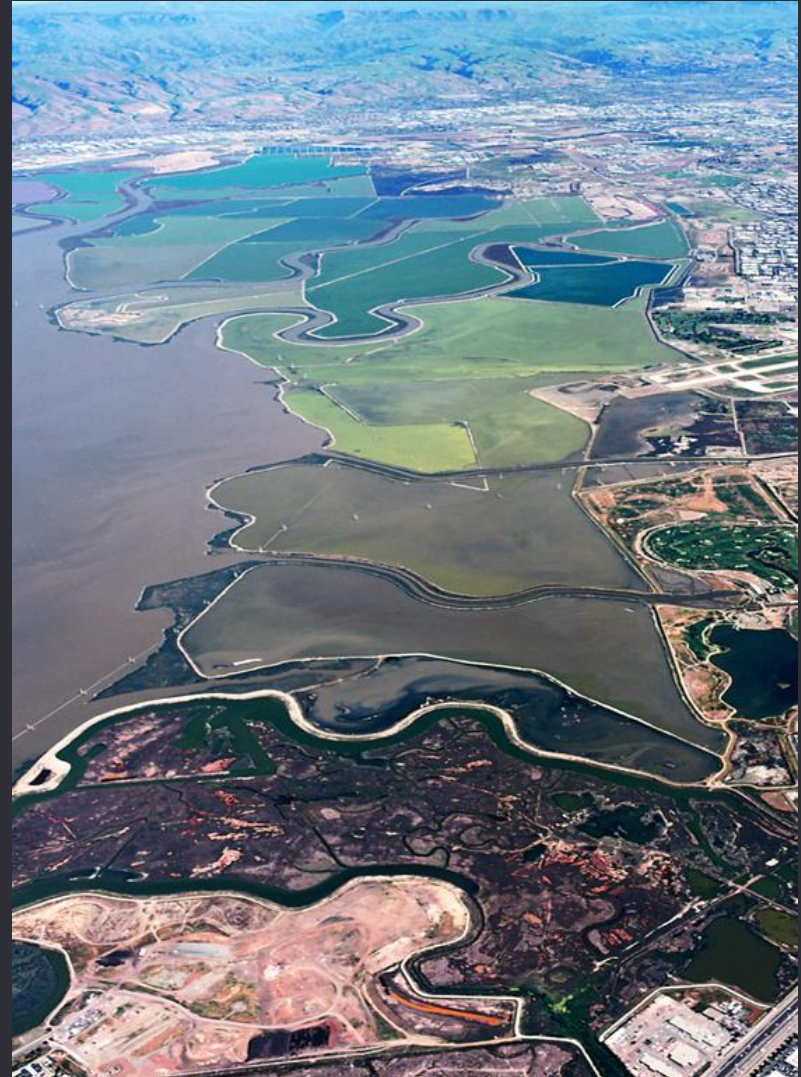
Peter Baye

# Overarching Recommended Actions

1. Use precious sediment and freshwater for restoration
2. Build in complexity and connectivity
3. Tighter adaptive management
4. Plan for Extreme Events/Crises in Advance
5. Engage the citizenry in protecting the Baylands

# Key Regional Strategies

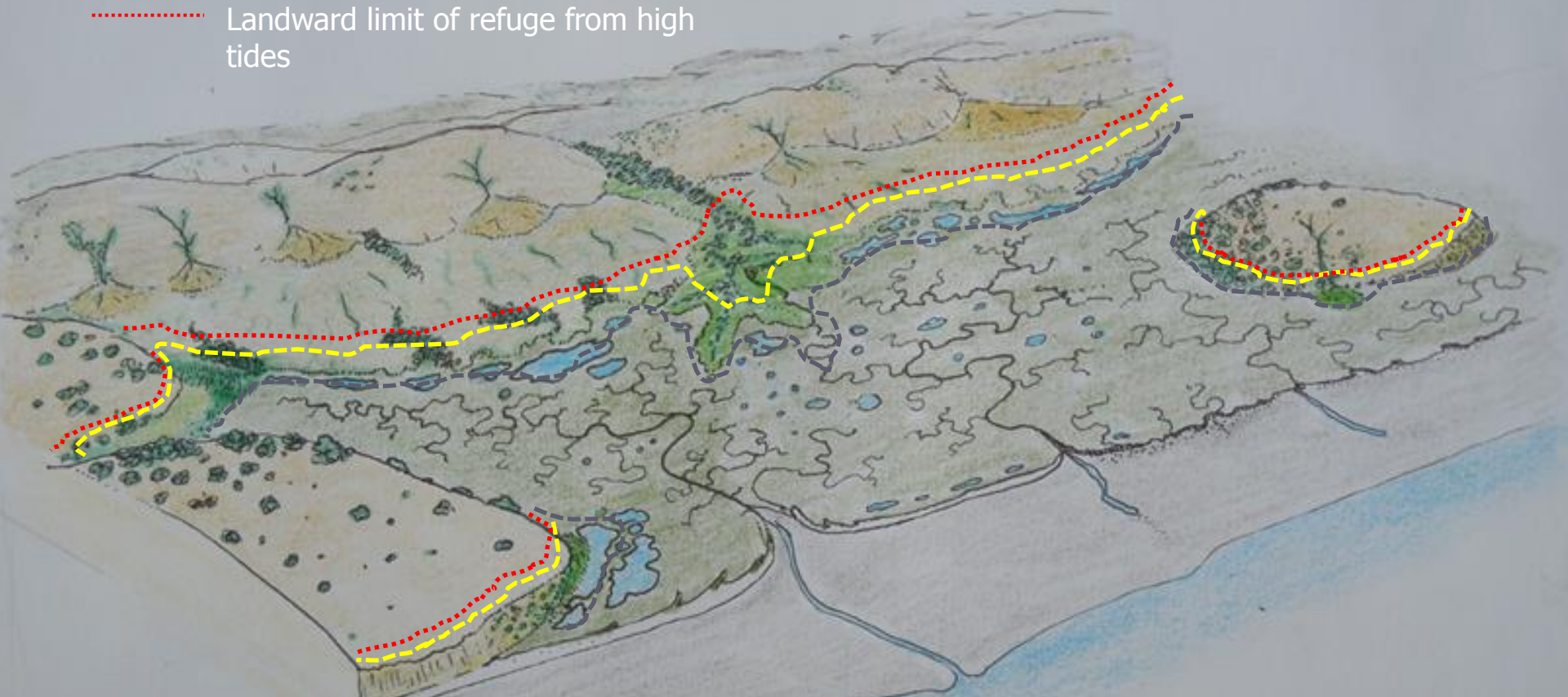
- ▶ Restore Watershed-Estuary Connections
- ▶ Restore complex, complete tidal wetland systems
- ▶ Restore earlier rather than later (prior to 2030)



## ► Plan for the Baylands to Migrate

## ► Assess, Restore and Enhance Transition Zones

- Landward limit based on vegetation
- Bayward limit based on vegetation
- ... Landward limit of refuge from high tides



- ▶ Actively Recover, Conserve and Monitor Wildlife Populations to Avoid Bottlenecks



- ▶ Better manage and reuse sediment via Regional Sediment Management Planning



# Key Regional Strategies



- ▶ Invest in research, policy and monitoring
- ▶ Improve carbon management

# Take Home Messages

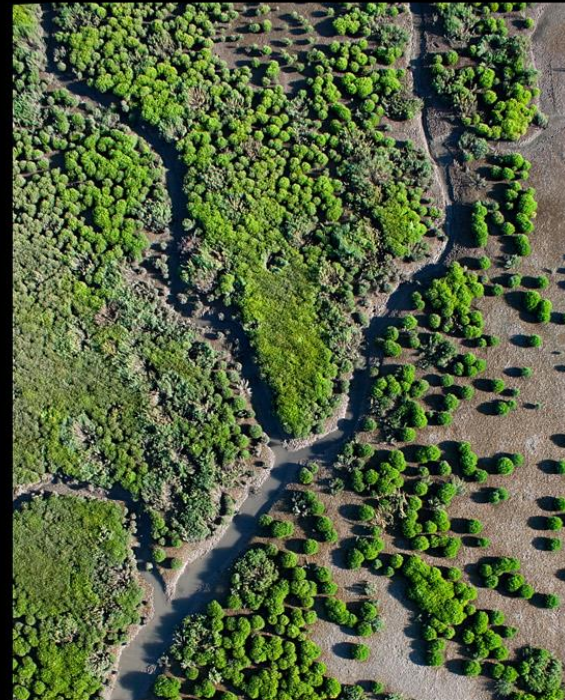
- ▶ Need to increase the scale and pace of how we do business, while combining efforts effectively
- ▶ Expect to invest more intensively in managing the best that we have
- ▶ Need to emphasize integrating shoreline solutions with wild places

# Thank You

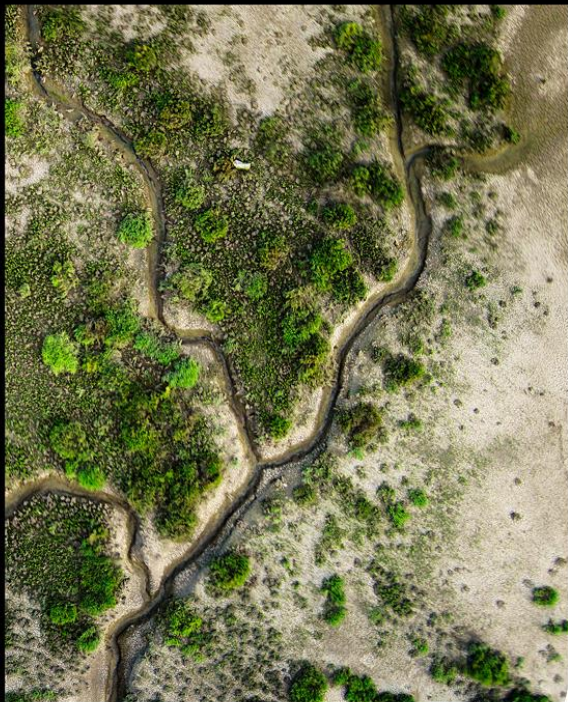
[Your Name, contact]



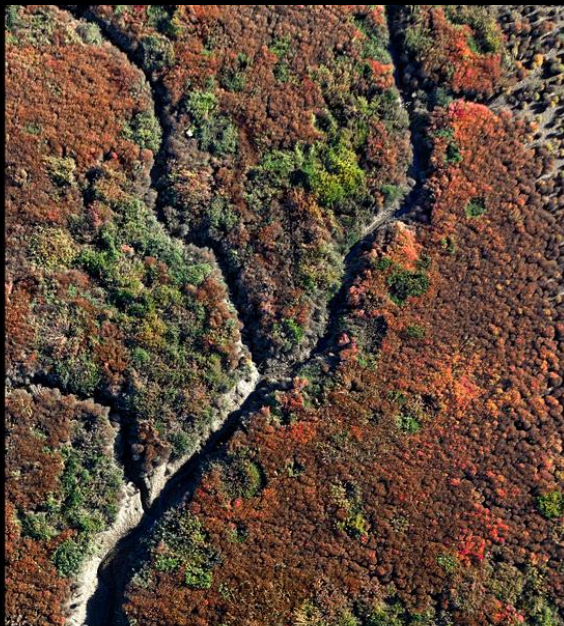
April 2008



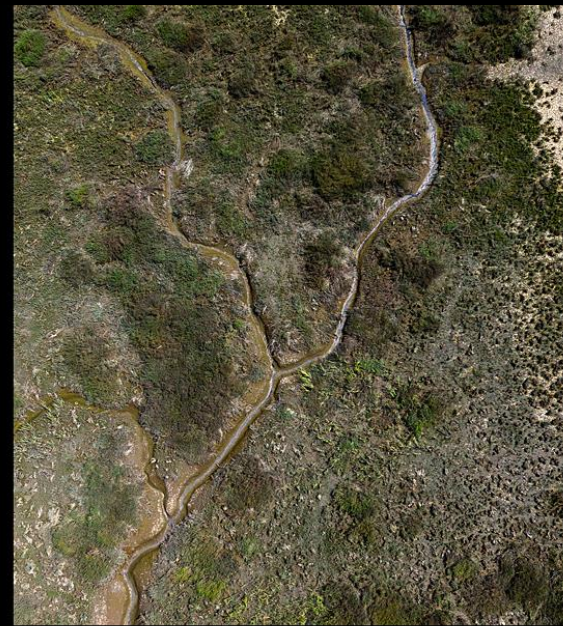
September 2009



May 2010



October 2010



June 2011

Cris Benton