

BlueCAM – a model for estimating carbon abatement

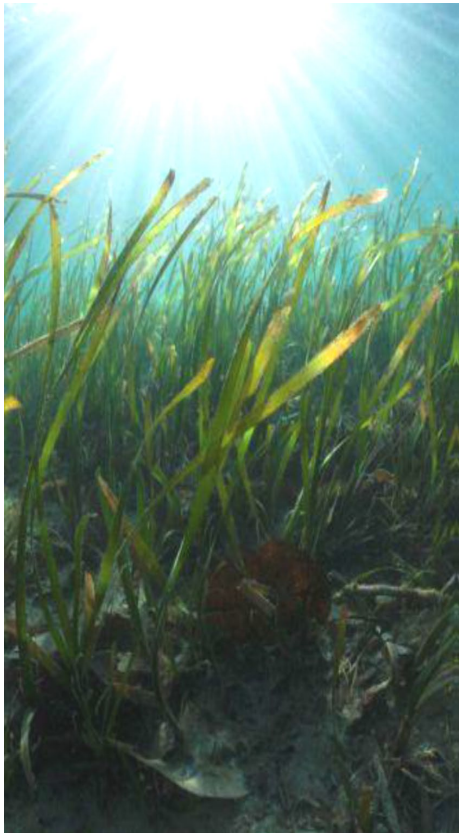
Tidal Restoration of Blue Carbon Ecosystems Methodology Determination 2022



Tidal restoration through hydrological modifications

Features of BlueCAM

- ◆ National in scale, but regional in approach (climate regions)
- ◆ Includes mosaics of ecosystems (included supratidal) that will transition over time with sea level rise
- ◆ Includes typical baseline land-uses (used to estimate avoided emissions)



Seagrass



Mangrove



Saltmarsh

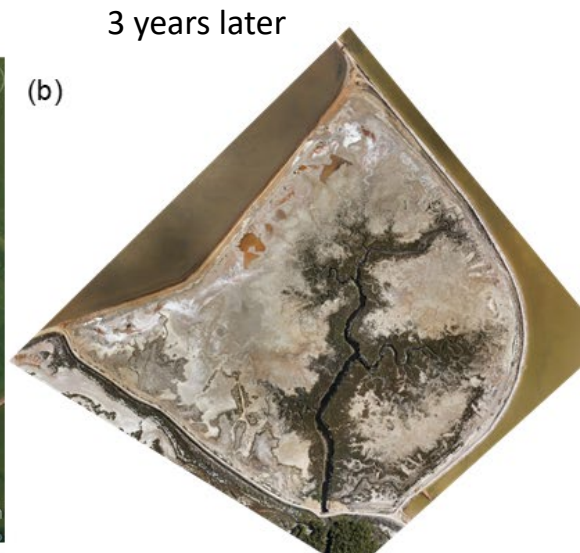
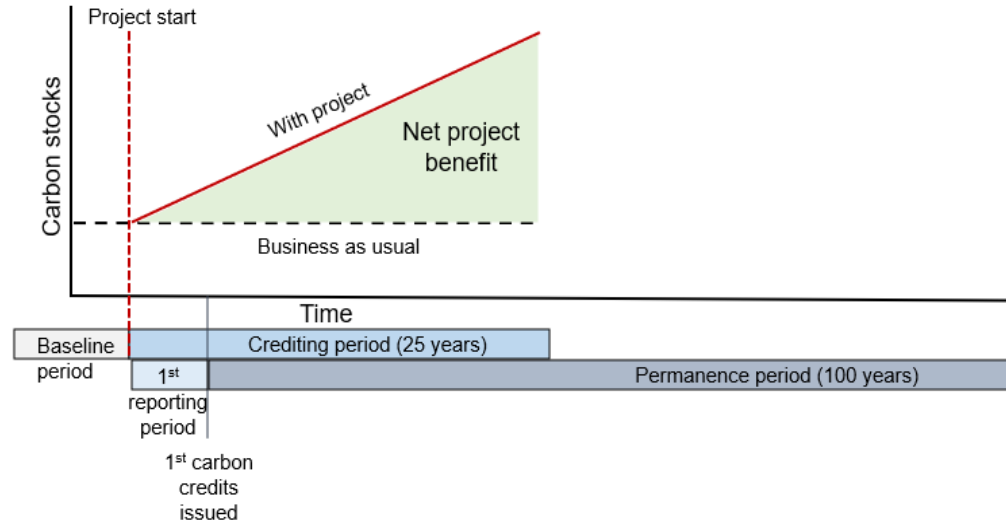


Supratidal forest



Sparsely vegetated
saltmarsh (salt flats)

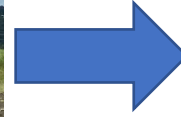
Tidal restoration (one activity)



Dittmann and Mosely unpublished
Supporting document for CER

Projects in a range of landscape types with differing goals



Blue Heart, Sunshine Coast



Under performing sugarcane

Reference site

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**Climate change mitigation and improvement of water quality
from the restoration of a subtropical coastal wetland**

Naima Iram, Damien T. Maher, Catherine E. Lovelock, Tallis Baker, Charles Cadier, Maria F. Adame 

Iram et al. 2022

- **Conservative (model)**
- Inputs
 - Tidal range
 - Area of land/ecosystem in carbon estimation areas (CEA)
 - Elevation of CEAs
 - Within BlueCAM - factors for emission/removals
- Consistent with IPCC Guidelines (2006, 2013, 2019)
- Delivered in 'Excel'
- The goal is to improve the model over time as more data collected and projects progress

