

Gulf of Mexico Priorities

Personnel to **incorporate existing data**, especially in tidal wetlands and estuaries. Two recently **funded** projects:

- Rusty and Ray will produce **tidal marsh burial** estimates, based on standing stocks plus accumulation rates – coarse scale view for entire US coast
- Lisa Marie Windham-Myers et al. to look at **tidal marsh standing stocks** at 6 sentinel sites using remote sensing data and GIS modeling

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Incorporate existing data – not funded projects

1. Data for Mx coast –
 - Commission on environmental cooperation - CEC
 - CarboNA
2. Use existing data to develop **PP** and **pCO₂** satellite models. Use these to understand influence of spatial and temporal variability on flux estimates and uncertainties
3. Determine carbonate production rates. Shellfish can measurable amounts of river alkalinity.

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New data required

1. Improved estimates of seagrass productivity and factors that drive it, improved maps, check for errors in Marcus' table. SAV is important in GMx, but probably existing estimates are too low.

2. Improve respiration estimates.

There may be appropriate data from recent BP cruises

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New data required - Other

- Flux between TM and est – arrow going both ways?
How do we measure it?
- Mechanisms for C transformations in all boxes
- Flux towers – a few existing or funded, 1 km² footprint, 1 per land cover type, use these to estimate mean and variance – Ken Davis? Need also for OCO ground truth
- Fluxes out of sea bed – GOMRi funding this?
- Groundwater fluxes
- Sargasso and macroalgae increases due environmental degradation