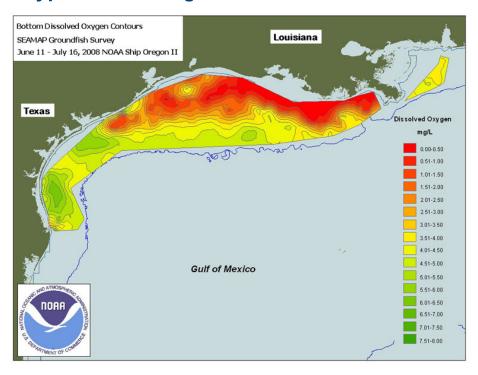


NOAA FISHERIES

User-driven tools to predict and assess effects of reduced nutrients and hypoxia on living resources in the Gulf of Mexico



Kim de Mutsert, Kristy A. Lewis, Matthew Campbell, Stephen Brandt, Arnaud Laurent, Joe Buszowski and Jeroen Steenbeek

Northern Gulf of Mexico Ecosystems & Hypoxia Assessment Program NGOMEX – Funded by NCCOS

Kim de Mutsert – George Mason University
Kristy A. Lewis – St. Mary's College of Maryland
Matthew Campbell, NMFS Mississippi Laboratories
Stephen Brandt - Oregon State University
Arnaud Laurent – Dalhousie University
Joe Buszowski – Ecopath International Initiative
Jeroen Steenbeek - Ecopath International Initiative

Expansive hypoxia in the Northern Gulf of Mexico (NGOMEX) will continue to affect ecologically and economically important living resources, but the magnitude, predictability and even the direction of these changes remain elusive.

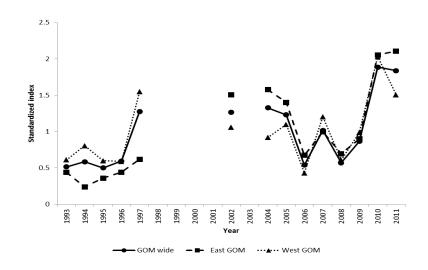
Managers and stakeholders need readily available and quantitative tools to predict and evaluate the effects on living resources of planned nutrient reduction strategies aimed to minimize the hypoxic zone.



Role of the Panel

- Assist in guiding project evolution
- Utility of existing modeling approach and suggested improvements.
- In the case of the species-specific production potential models, suggestions for useful species to add.
- Identify nutrient reduction scenarios that are most useful to simulate.
- Data Discovery (e.g. bioenergetics models, model validation).
- Steering end-product tools towards utility for management.
- Advise on assessment and survey schedules
- Expand list of contacts and potential end-users
- Advise on best practices for advisory activities
- Suggest alternative meeting strategies and interactions

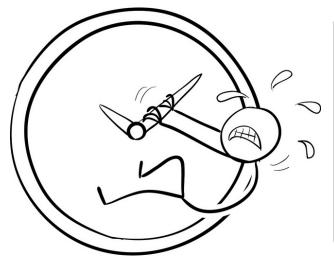






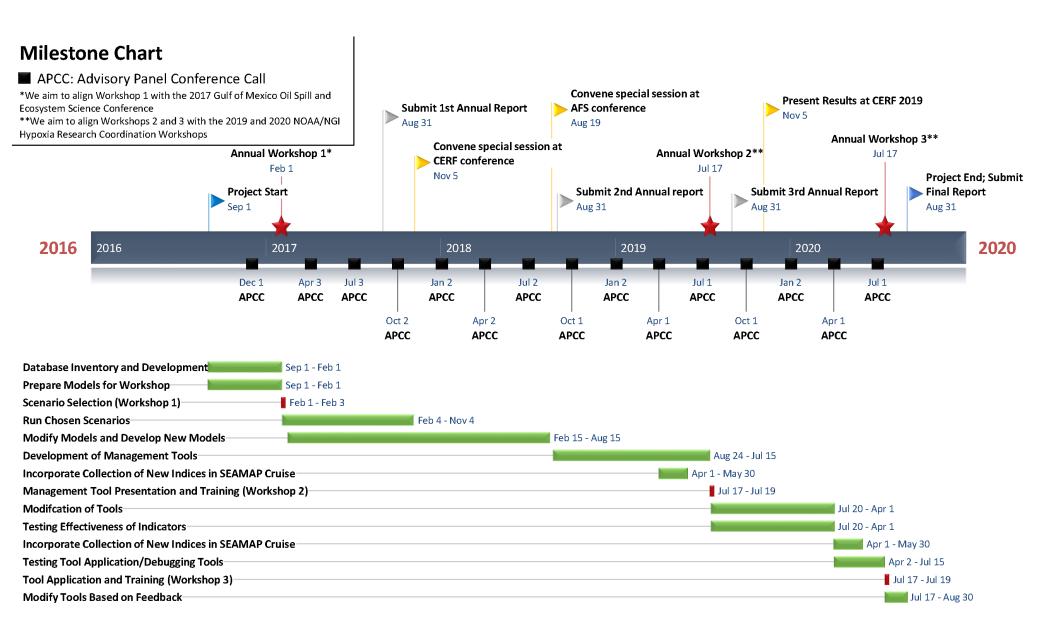
Time Commitment

- Funding period: September 2016 August 2020
- Participation in four conference calls per year
- Participation in three workshops to be held over the four years
- Might be some need to help coordinate activities for scheduled assessments (e.g. data calls, schedules etc.)











SEDAR and Shrimp Assessment Schedules (2017)

Title	Assessment species	Assessment track	Terminal year	Organizing entity	Data workshop	Assessment workshop	Contact
51	Gulf of Mexico Gray Snapper	Benchmark (new data sets)	2015	SEDAR	April 24-28, 2017	February 13-15, 2018	julie.neer@safmc.net
52	Gulf of Mexico Red Snapper	Standard (update from benchmark)	2016	SEDAR	Undecided	Undecided	julie.neer@safmc.net
54	Sandbar Shark (HMS)	Standard (update from benchmark)	2015	SEDAR	May-Aug, 2017	Late 2017	julie.neer@safmc.net
	White shrimp			SEFSC Galveston			Rick.Hart@noaa.gov
	Brown shrimp			SEFSC Galveston			Rick.Hart@noaa.gov
	Pink shrimp			SEFSC Galveston			Rick.Hart@noaa.gov
	Royal Red?			SEFSC Galveston			Rick.Hart@noaa.gov
For furthe	r information on assessment so	cheduling etc visit:					
http://sedarweb.org/							
http://sed	arweb.org/docs/page/SEDAR_	PlanSchedule_Nov2016_FINAL.pdf					
http://ww	w.galvestonlab.sefsc.noaa.go	v/research/fishery_management/inde					

^{*} Need information on any state assessments that are on the horizon



Advisory Panel

Name	Affiliation	Advisory Panel Member	Workshop 1 participant
Robert Twilley	Louisiana State University & Louisiana Sea Grant	Yes	Yes
Mandy Karnouskas	NMFS-SEFSC-Miami	Yes	No
John Walter	NMFS-SEFSC-Miami	Yes	No
Skyler Sagarese	NMFS-SEFSC-Miami	Yes	No
Bonnie Ponwith	NMFS-SEFSC-Miami	Yes	No
Shannon Martin	NMFS	Yes	Yes
Steve Giordano	NMFS - SERO	Yes	?
James Nance	NMFS SEFSC-Galveston	Yes	No
Rick Hart	NMFS SEFSC-Galveston	Yes	No
Steve Ashby	Northern Gulf Institute	Yes	Yes
Pat Montanio	NOAA Habitat Program	?	?
James Tolan	TPWD - Coastal Fisheries Division	Yes	Yes
Luiz Barbieri	Florida Fish and Wildlife Conservation Commission	Yes	?
Lisa Desfosse	NMFS-SEFSC-Mississippi Laboratories	Yes	No
Jeff Rester	Gulf States Marine Fisheries Commission	Yes	Yes
James H. Cowan	Louisiana State University	Yes	Yes
Andy Fisher	Louisiana Dept. Wildlife and Fisheries	Yes	No
Dave Lindquist	CPRA	No	Yes + 2

^{*} Need suggestions for representatives from Mississippi and Alabama



Thank You!

















Role of the Committee

- Assist in guiding project evolution
- Utility of existing modeling approach and suggested improvements.
- In the case of the species-specific production potential models, suggestions for useful species to add.
- Identify nutrient reduction scenarios that are most useful to simulate.
- Discovery of data (e.g. bioenergetics models & model validation data).
- Steering end-product tools towards utility for management.
- Advise on assessment and survey schedules
- Expand list of contacts and potential end-users
- Advise on best practices for advisory activities
- Suggest alternative meeting strategies and interactions

