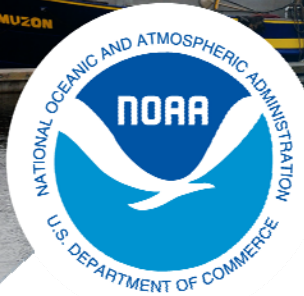


TAB E, NO. 6(b)



**NOAA**  
**FISHERIES**

Office of Science  
and Technology

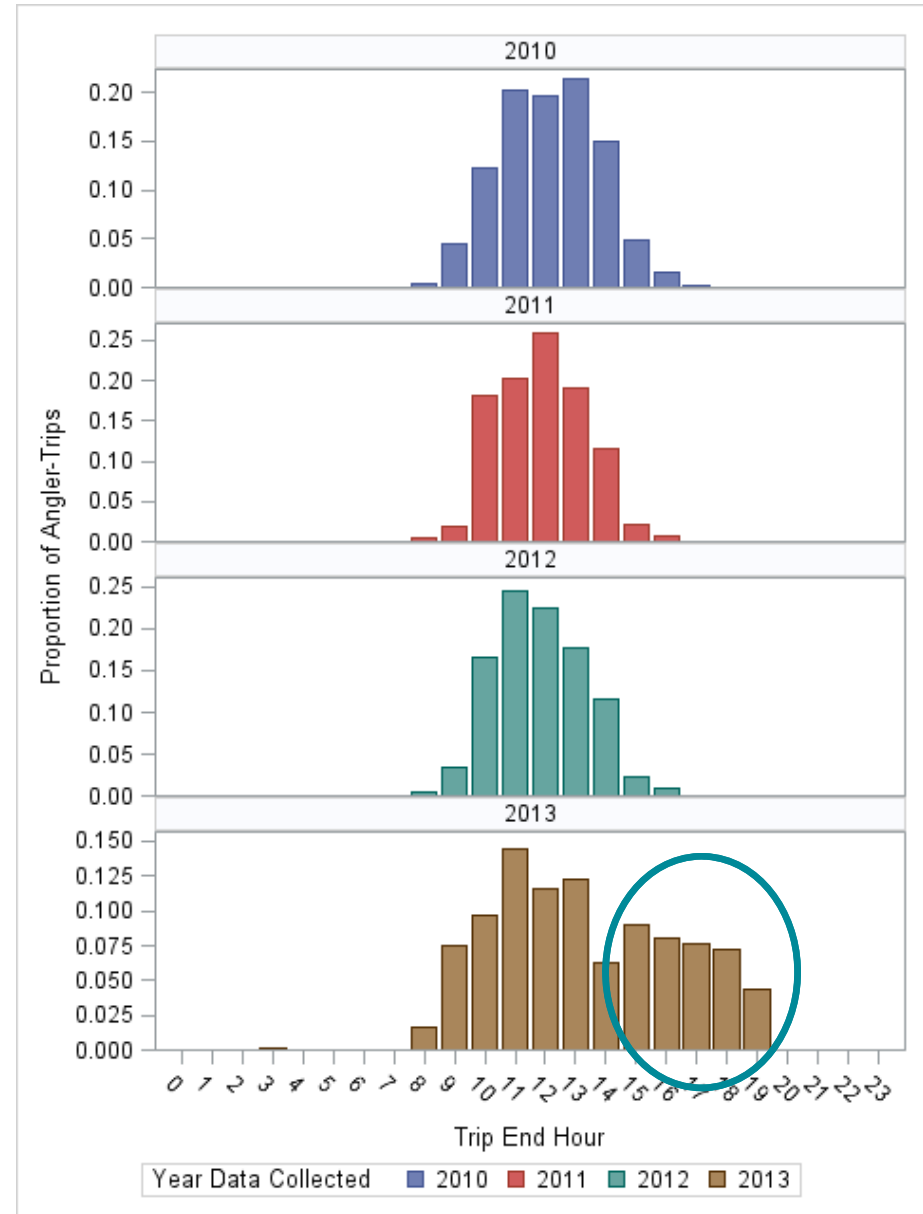
# Review and Discussion of MRIP Calibration

Gulf Council Meeting  
Pt. Clear, AL  
January 26, 2015

# MRIP Design Change 2013

Changes in design led to changes in proportions of angler-Trips by Hour (previously afternoon and evening trips not always well sampled)

## Example: Alabama Private Boat



# MRIP Calibration Workshop

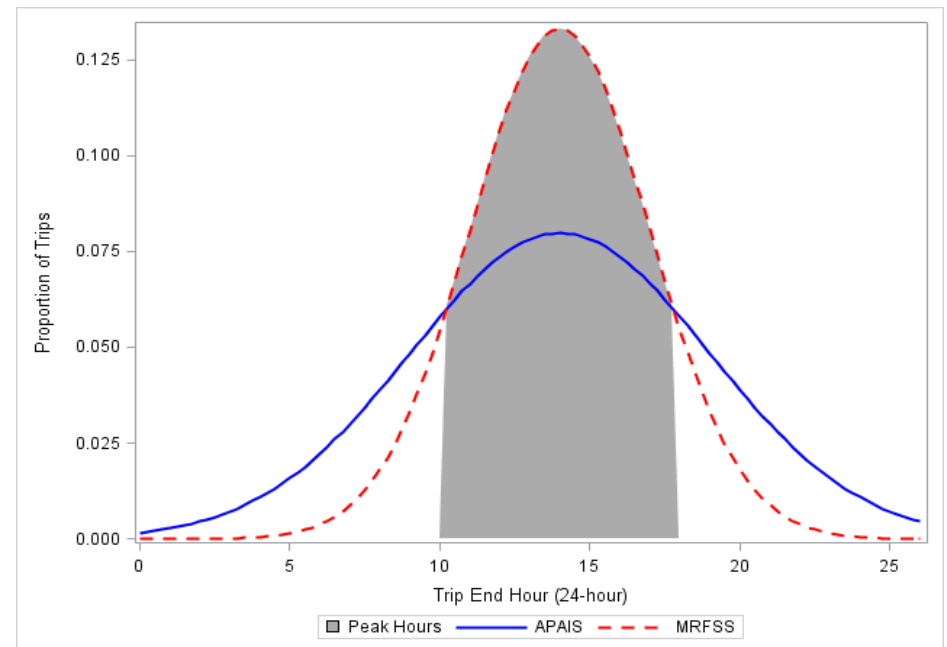
- Held September 8-10, 2014
- Concluded **calibration is required**
- Three calibration methods developed:
  - **Simple ratio adjustment (Interim Recommendation)**
  - Complex ratio adjustment (requires estimation of more parameters)
  - Model-based approach (longer-term, needs more data)
- Calibrated estimates used in red snapper update assessment; also being used for red grouper and gray triggerfish assessments.

# MRIP Calibration Workshop II

- MRIP estimates from 2004-2012 rescaled to account for possible undersampling outside “peak hours”
- Method assumes proportion of catch made outside “peak” hours is relatively stable from year to year
- **Separate ratios  $R$  were computed for A, B1 and B2**

$$\hat{C}_{tot,y} = \hat{R}_{2013} \hat{C}_{peak,y}$$

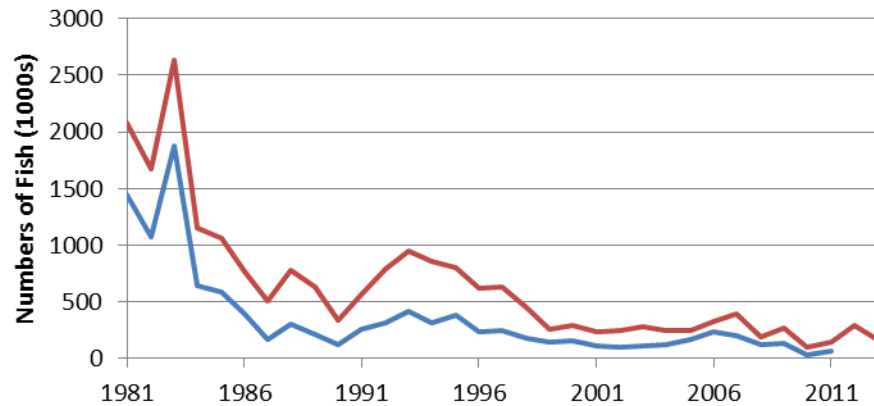
$$\hat{R}_{2013} = \hat{C}_{tot,2013} / \hat{C}_{peak,2013}$$



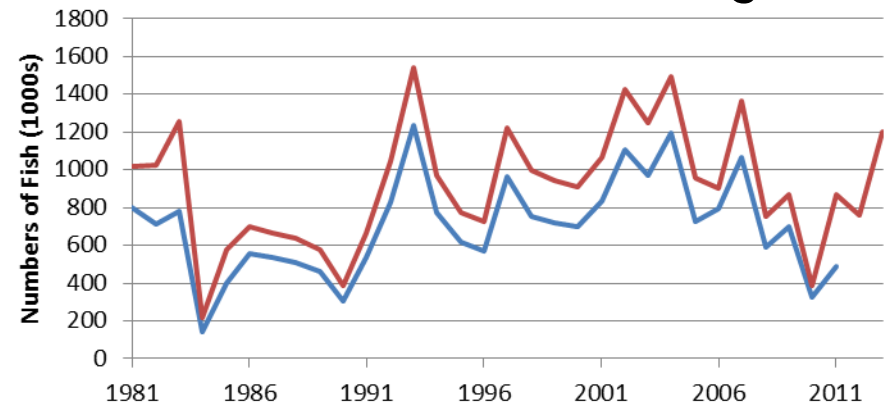
# Effect of MRIP Calibration – Red Snapper



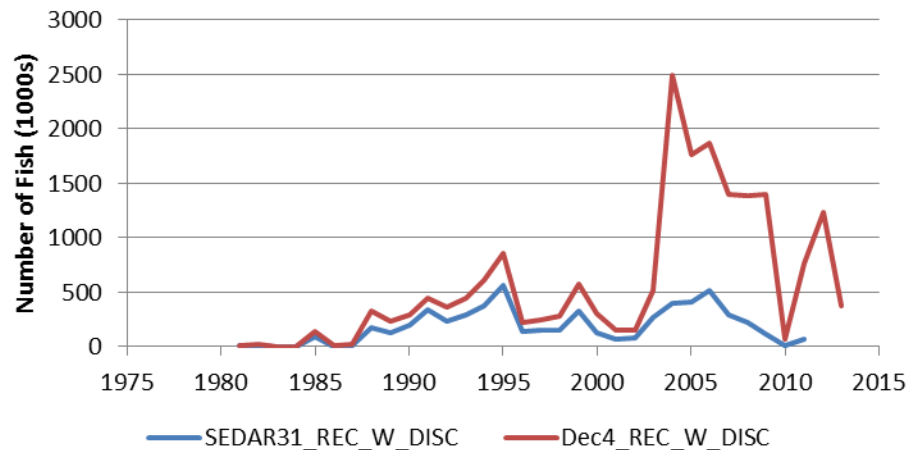
## West recreational landings



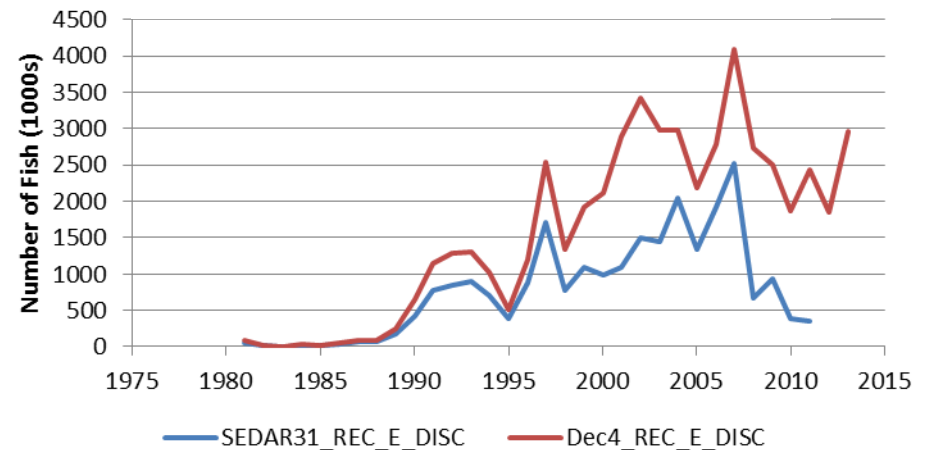
## East recreational landings



## West recreational discards

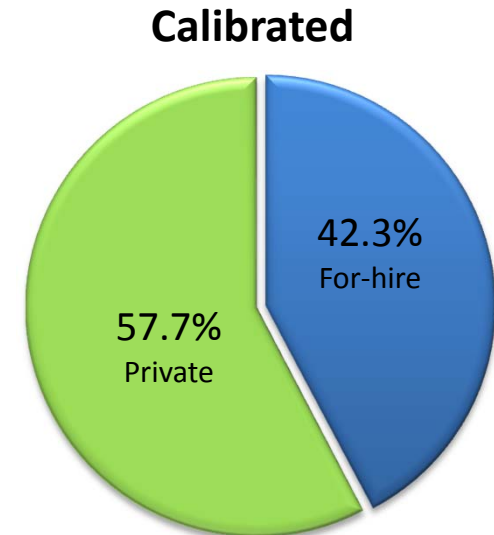
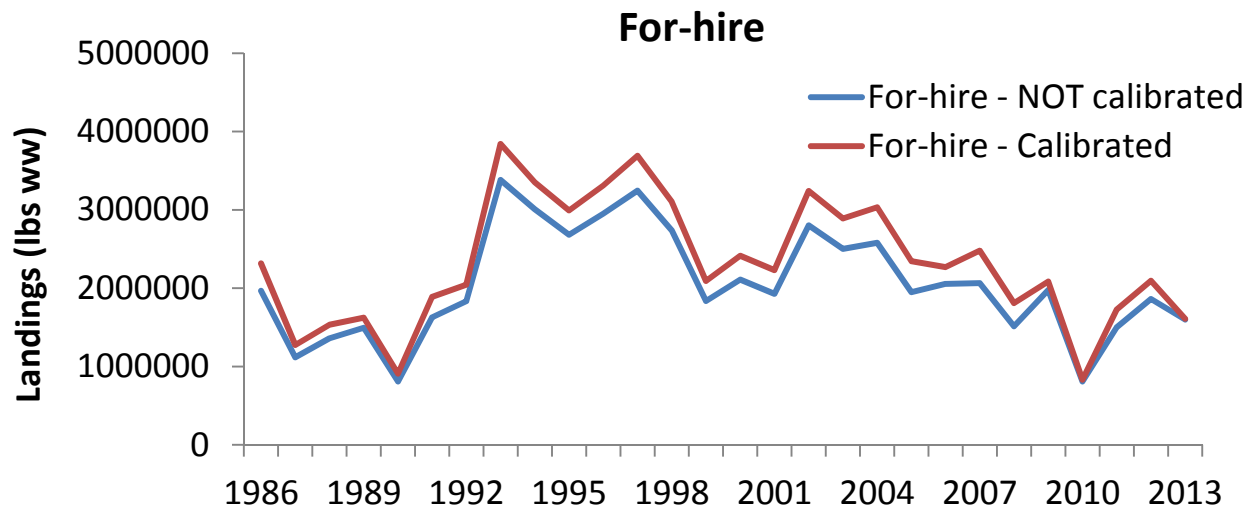
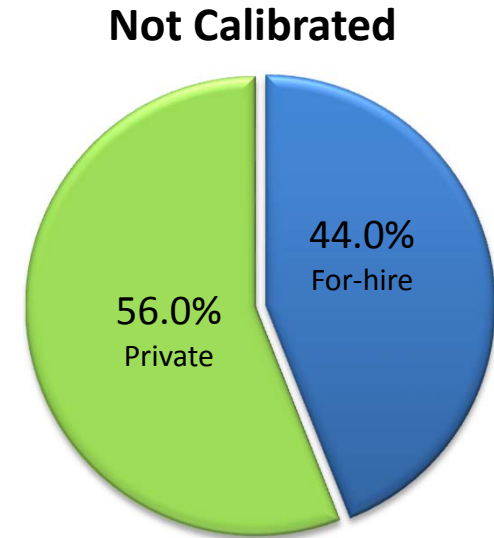
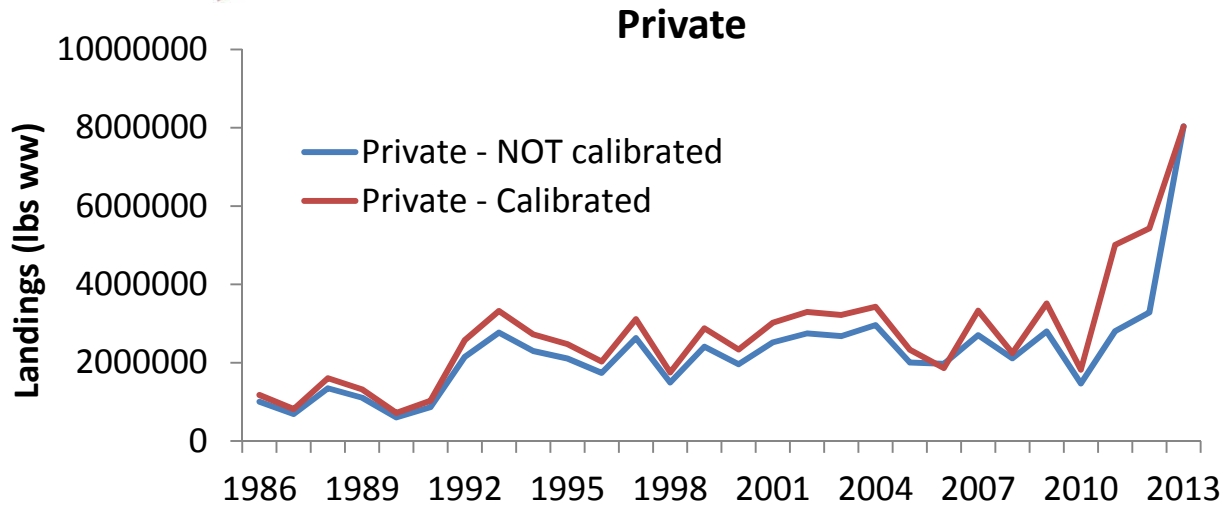


## East recreational discards





# Sector Separation Allocations



# Effect of MRIP Calibration – HB Collaborative Red Snapper Quota

$$\text{HBC quota} = \frac{\% \text{ 2011 HBC vessel landings}}{\text{2011 recreational landings}} \times \text{2015 quota}$$

	2014	2015
Vessels	17	19
HBC landings (lbs ww)	228,845	268,651
2011 landings (lbs ww)	4,305,989	6,734,109
HBC % of quota	5.3146%	3.9894%
2015 quota (lbs ww)	5,390,000	5,390,000
HBC quota (lbs ww)	286,457	215,027
HBC quota (n fish)	55,527	42,690

← MRIP Calibration II

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Questions?