



## Green Sturgeon Monitoring

Humboldt Bay – Acoustic Telemetry  
February 15, 2008


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## Humboldt Bay Residency


Acoustic Hydrophone Array in Humboldt Bay,  
California, 2007

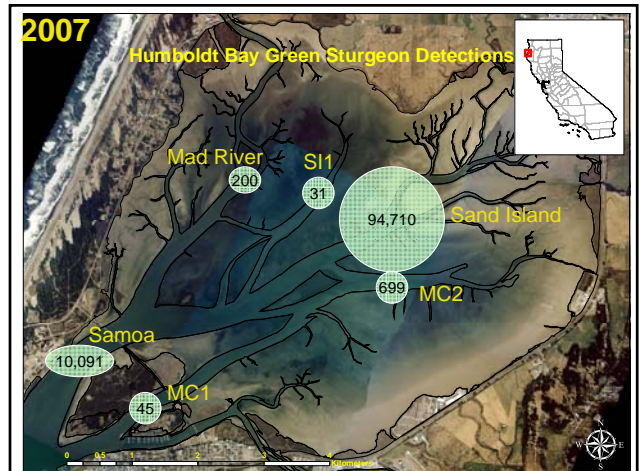
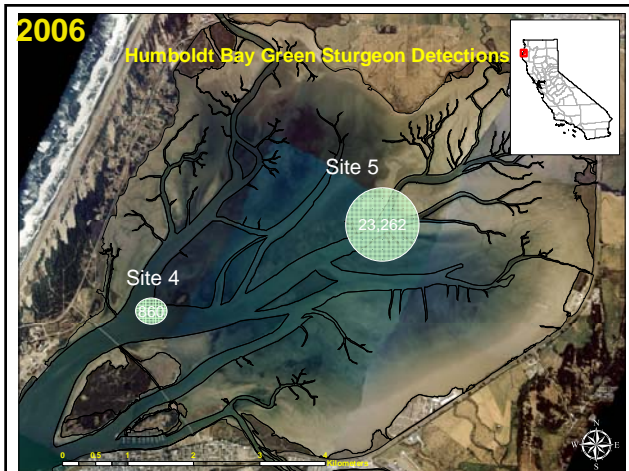
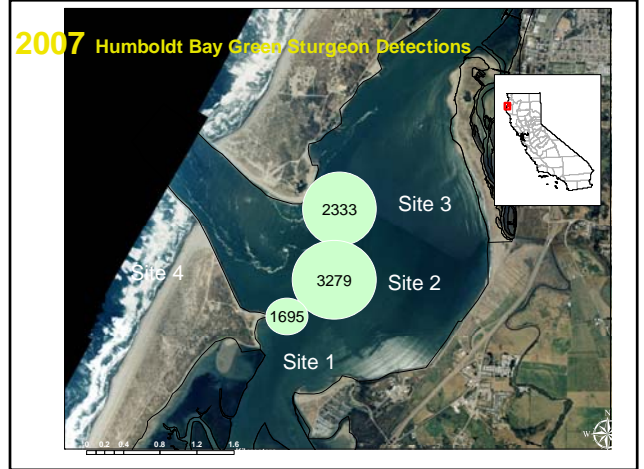
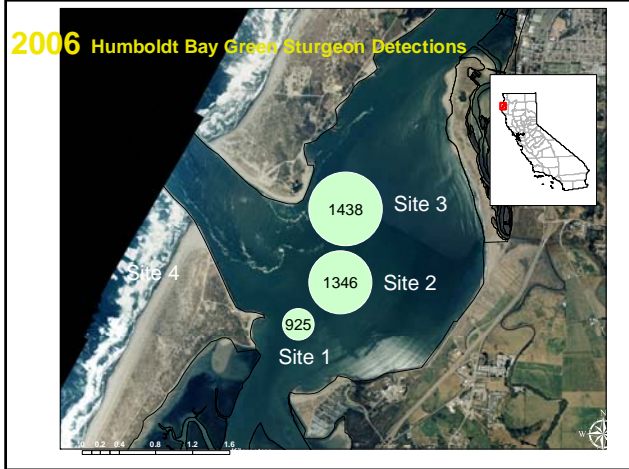
Acoustic Receivers in Humboldt Bay since October 2005



- North Bay is 'Hot Spot' for green sturgeon
- Breaching is common

Humboldt Bay Green Sturgeon Detections





**Sturgeon Detections in Humboldt Bay  
by Tagging Locations  
number individual fish (# of detections)**

Location	2006	2007
Willapa Bay	2 (3,423)	3 (17,283)
Grays Harbor	1 (45)	3 (900)
Rogue River	2 (10,328)	0 (0)
Klamath	0 (0)	0 (0)
San Pablo Bay	6 (14,063)	16 (52,012)
Sacramento R.	0 (0)	3 (29,523)

**Timing of Green Sturgeon  
Residence in Humboldt bay by  
Tagging Location**

Location	2006	2007
Willapa Bay	Jun-Oct	May-Sep
Grays Harbor	Jun-Jul	May-Jul
Rogue River	Aug-Oct	N/A
Klamath	N/A	N/A
San Pablo Bay	Jun-Oct	Apr-Oct
Sacramento R.	N/A	May-Aug

**Detections by Location Within  
Humboldt Bay 2006**

Location	Entrance	North Bay
Willapa Bay	2,659	764
Grays Harbor	45	0
Rogue River	84	10,154
Klamath	N/A	N/A
San Pablo Bay	859	13,204
Sacramento R.	N/A	N/A

**Detections by Location Within  
Humboldt Bay 2007**

Location	Entrance	North Bay
Willapa Bay	1,457	15,644
Grays Harbor	723	176
Rogue River	N/A	N/A
Klamath	N/A	N/A
San Pablo Bay	3,577	48,025
Sacramento R.	1,547	43,444

Southern vs. Northern DPS in Humboldt Bay  
% by Number Individuals (by Detections)

Location	2006	2007
Southern	55 % (50 %)	76 % (82 %)
Northern	45 % (50 %)	24 % (18 %)

## Summary

- Green Sturgeon enter Humboldt Bay in late spring (April to June)
- Green Sturgeon reside in Humboldt Bay until fall (September to October)
- Southern DPS green sturgeon made up majority of green sturgeon in Humboldt Bay
  - Unsure if tagging rate affects ratio of northern to southern green sturgeon
- No Klamath River green sturgeon detected in Humboldt Bay

## Contact Information

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