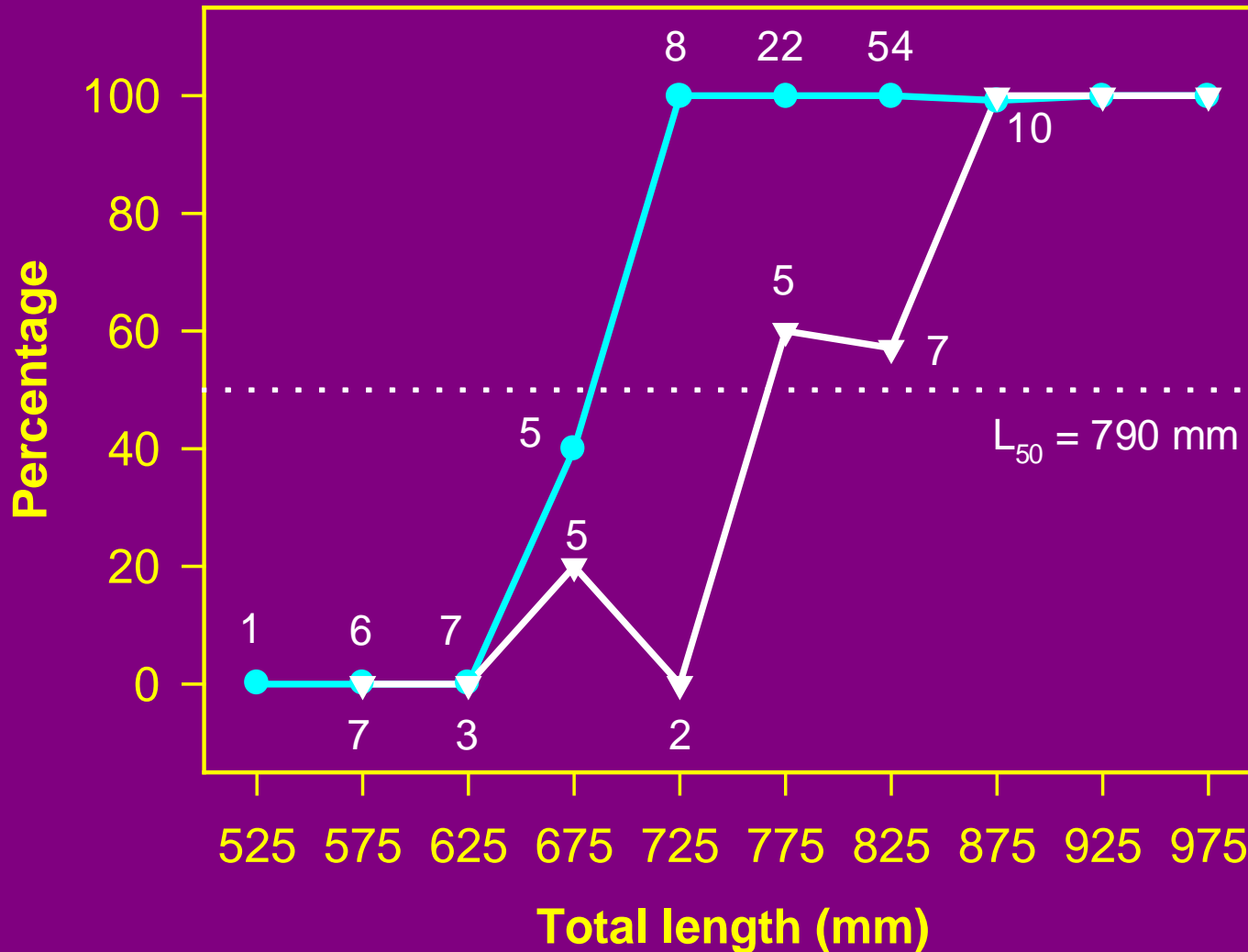


Wreckfish size at maturity

Slides from
PowerPoint
Presentation by David
M. Wyanski and H.
Scott Meister
(Sedberry file date 27
March 2003; from
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SC



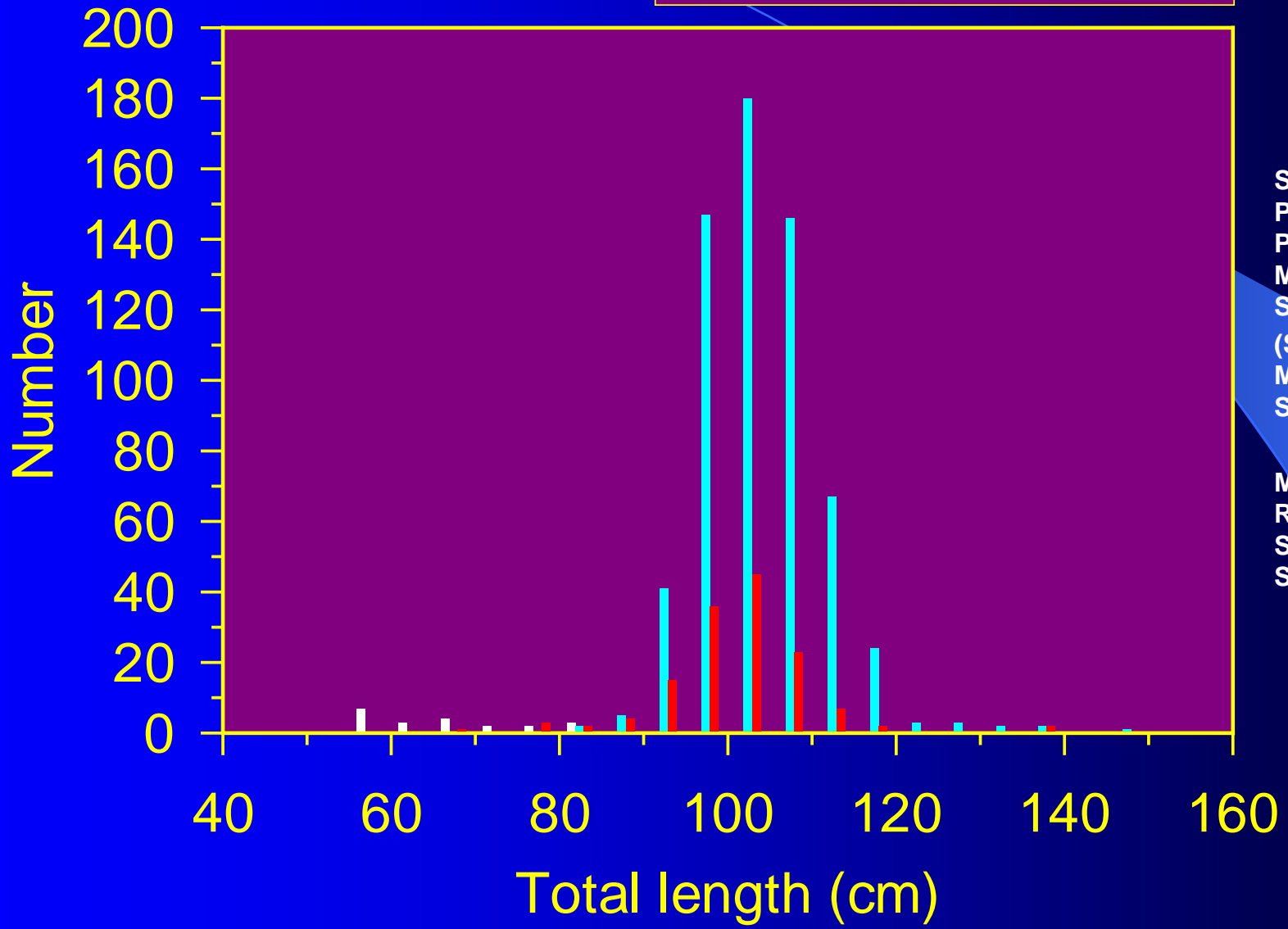
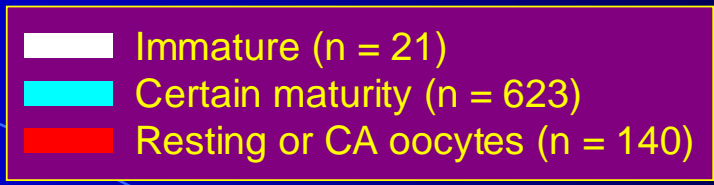
- Male (n = 741)
- Female (n = 810)
- Female L_{50}

Samples collected

- Fishery-dependent collections during 1989-93 and 2000-02; $n = 1448$
- Fishery-independent collections during 1989-93; $n = 218$
- Left otolith and sample of reproductive tissue for histology and fecundity; tissue fixation in 10% formalin

Slides from PowerPoint Presentation by David M. Wyanski and H. Scott Meister (Sedberry file date 27 March 2003; from SDAFS 2002?)

Histology - QC



Slides from PowerPoint Presentation by David M. Wyanski and H. Scott Meister (Sedberry file date 27 March 2003; from SDAFS 2002?)

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Sex ratio, 2000-02, fishery-dependent

Total length (mm)	Males	Females	M:F	Prob.	H ₀ M:F = 1:1
651-700	0	1			
701-750	1	0			
751-800	5	0			
801-850	14	1	1:0.07	0.001	Reject
851-900	48	4	1:0.08	0.001	Reject
901-950	70	20	1:0.29	0.001	Reject
951-1000	81	58	1:0.72	0.051	Accept
1001-1050	39	58	1:1.49	0.054	Accept
1051-1100	29	39	1:1.34	0.225	Accept
1101-1150	4	18	1:4.50	0.003	Reject
1151-1200	0	11			
1201-1400	0	4			
No length	4	2			
Total	295	216	1:0.73	0.001	Reject
Median TL	952	1021			

Overall median TL = 985 mm

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Summary

- Females grow to larger sizes than males. Differential growth?
- Wreckfish are late maturing. Females: 751-800 mm TL at first maturity. Males: 651-700 mm TL. Estimated age is 5 yr.
- Females spawn Dec-Apr, peak in Feb-Mar.
- Fecundity is determinate.