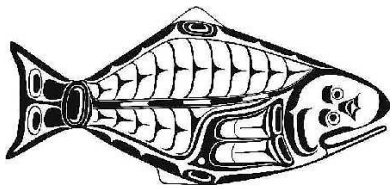


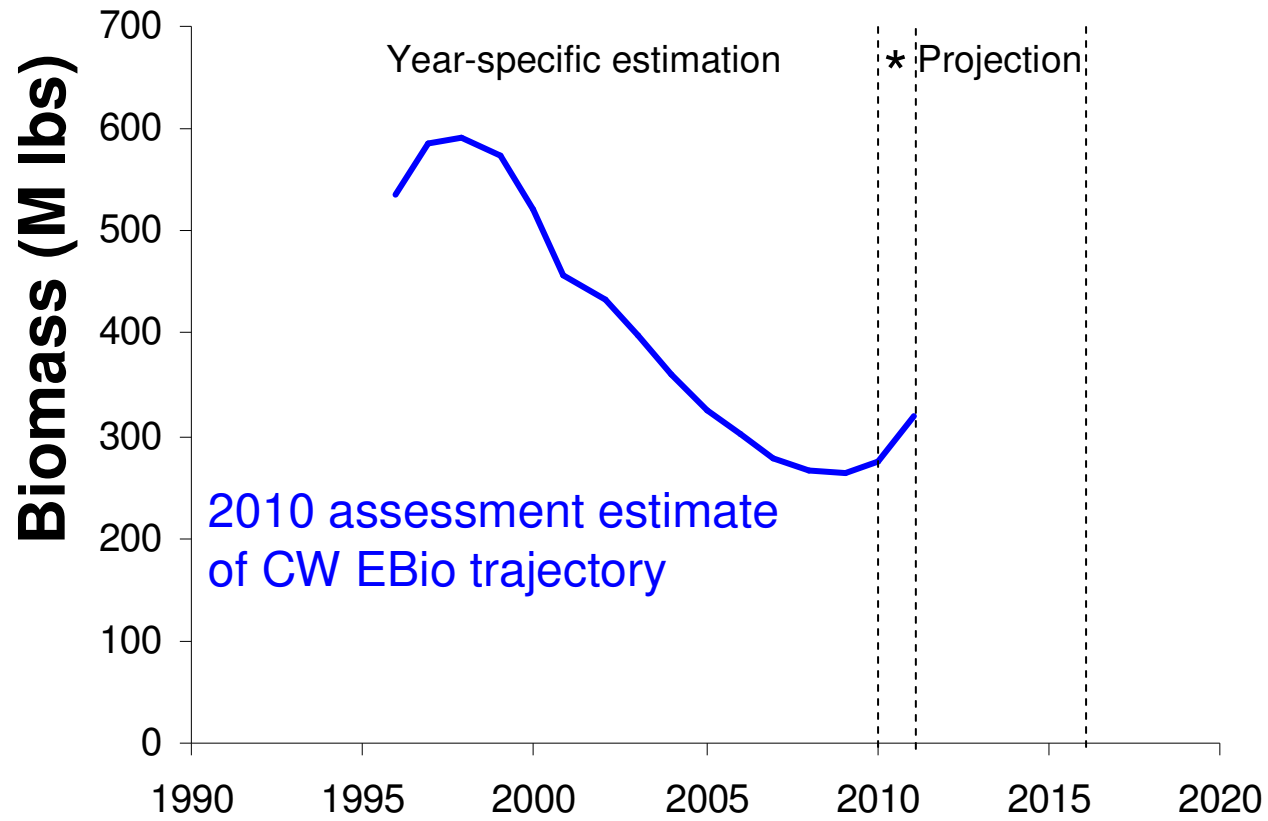
# Projections of exploitable biomass using alternative methods and assumptions

Juan L. Valero



87<sup>th</sup> IPHC Annual Meeting, Victoria January 24-28, 2011

# Coastwide (CW) exploitable biomass (EBio)

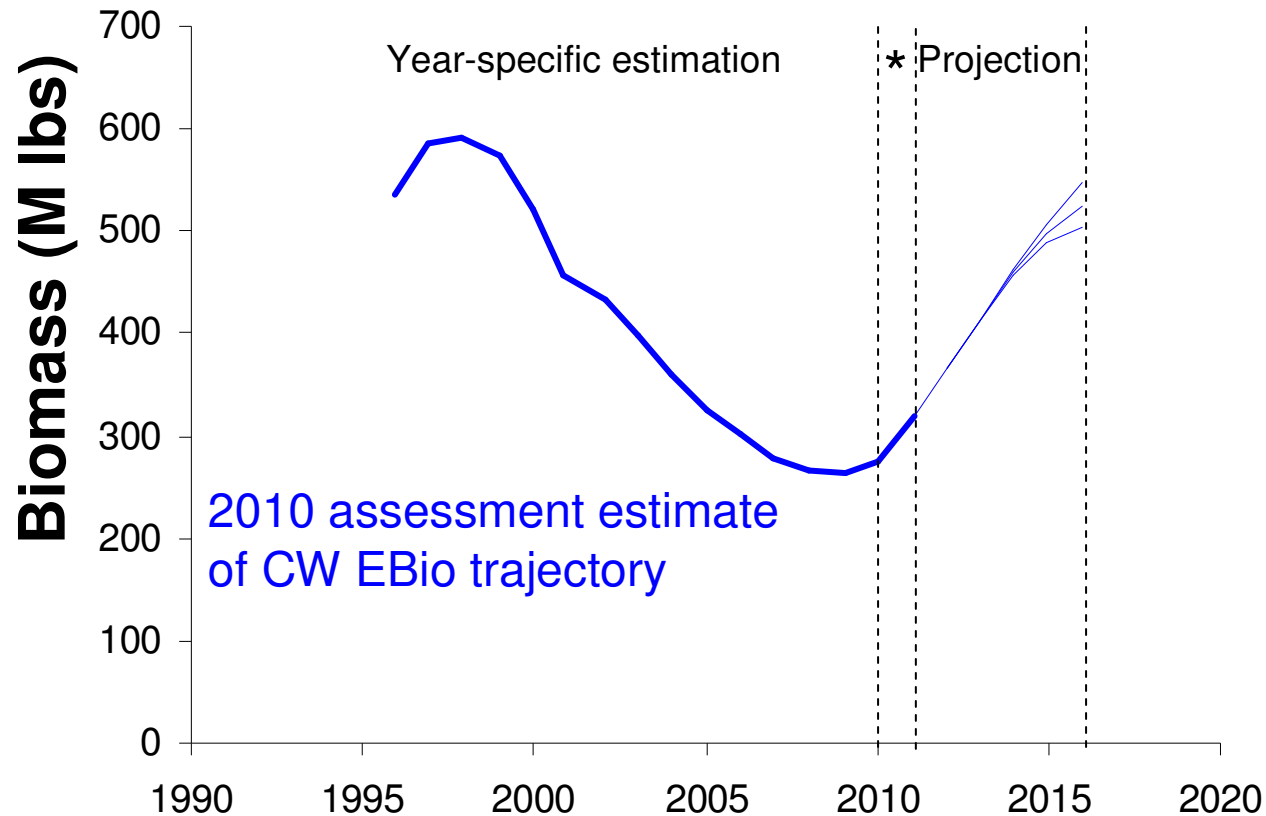


\* Beginning of the year 2011 calculated using 2010 size-at-age, selectivity, etc.

## Projected CW EBio (*status quo* method, change in trends)

- Using Min, Avg and Max CW estimated recruitment
- Changing trends: 1) no further decreases in size-at-age  
2) no further decreases of recruitment estimates

**Cautionary note:** these projections assume no uncertainty on 2011 initial numbers and HR: 0.2

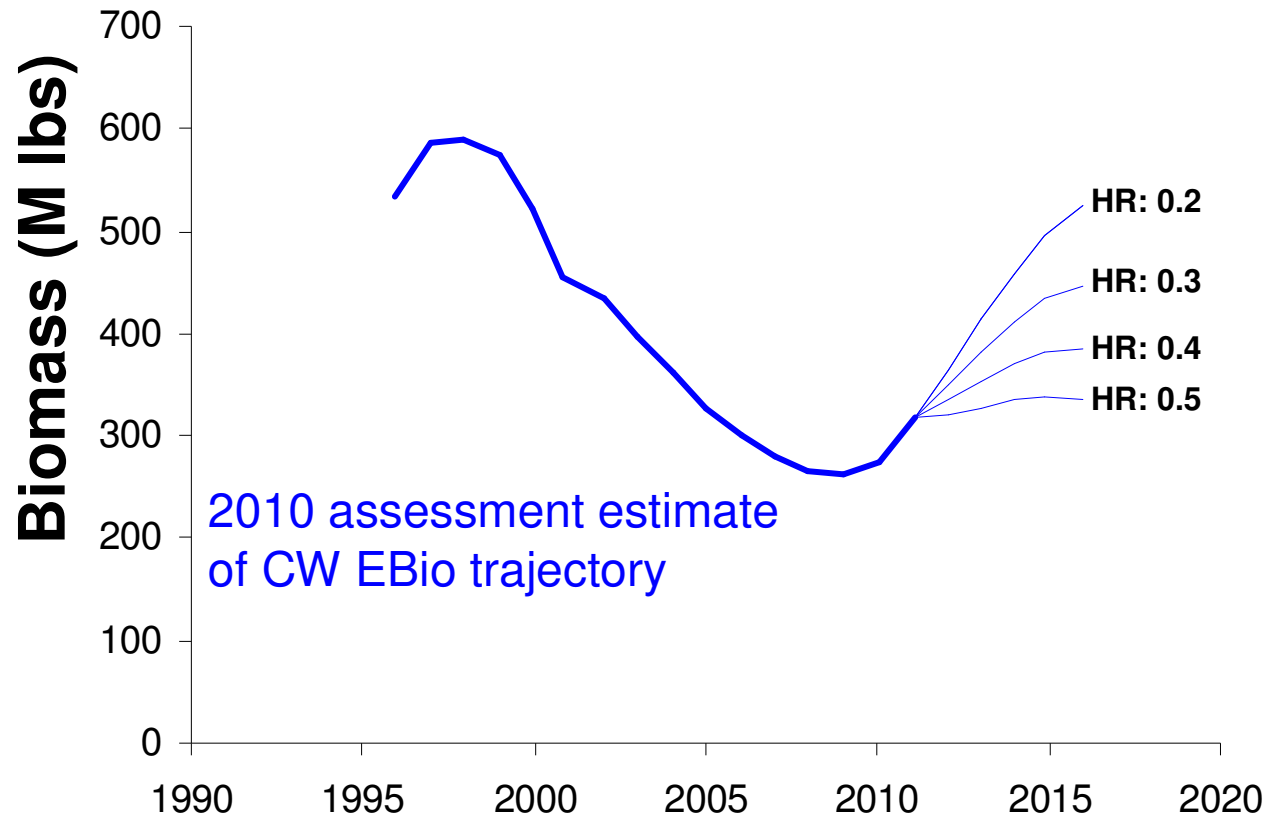


\* Beginning of the year 2011 calculated using 2010 size-at-age, selectivity, etc.

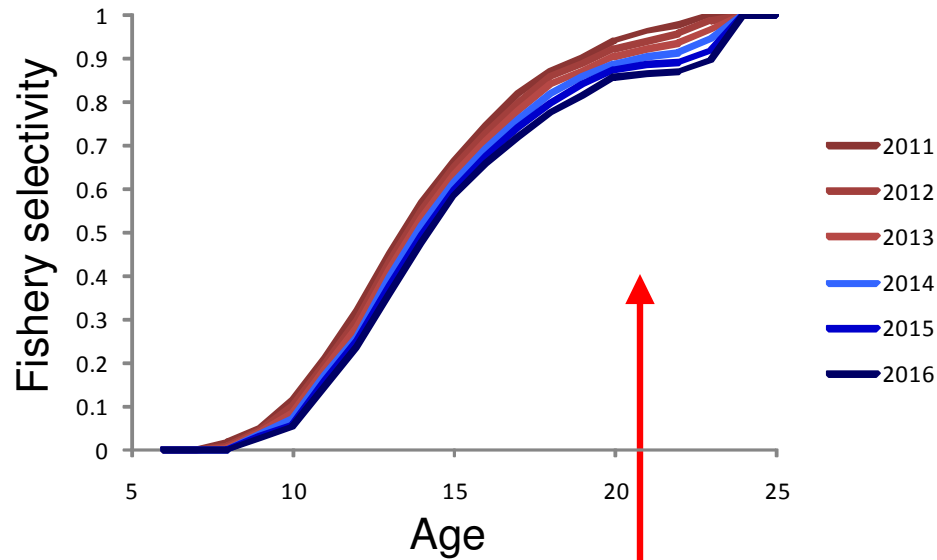
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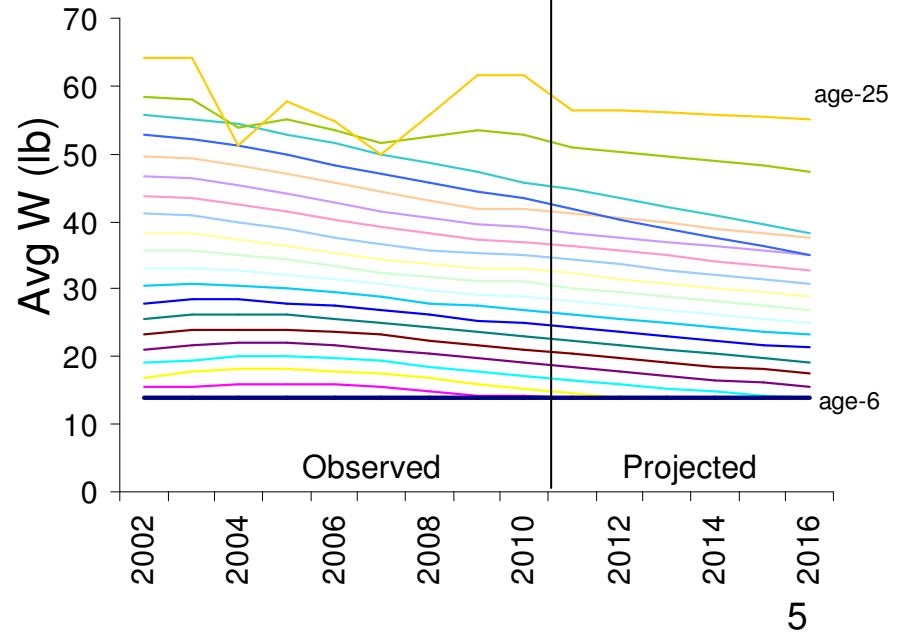
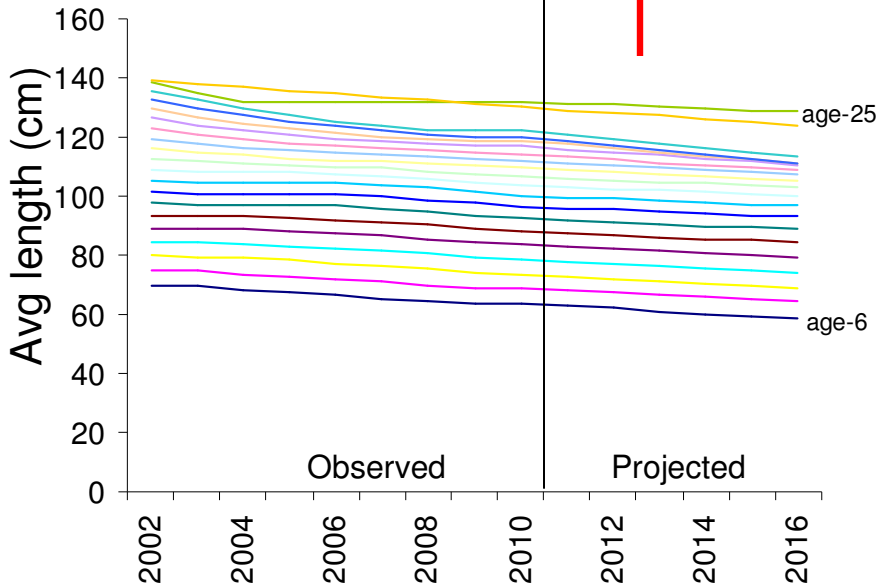
**Cautionary note:** these projections assume no uncertainty on 2011 initial numbers



# Projected CW EBio (alternative method, *status quo* trends)

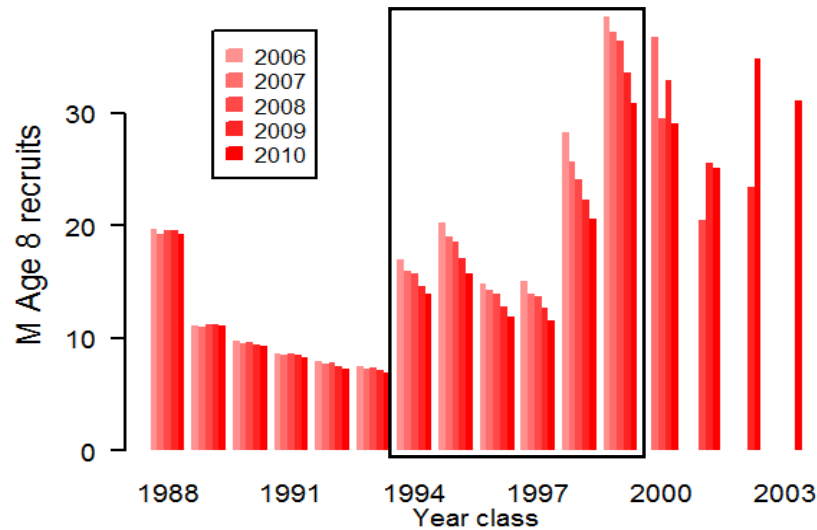


Trend: decline in size-at-age  
decline in selectivity at age



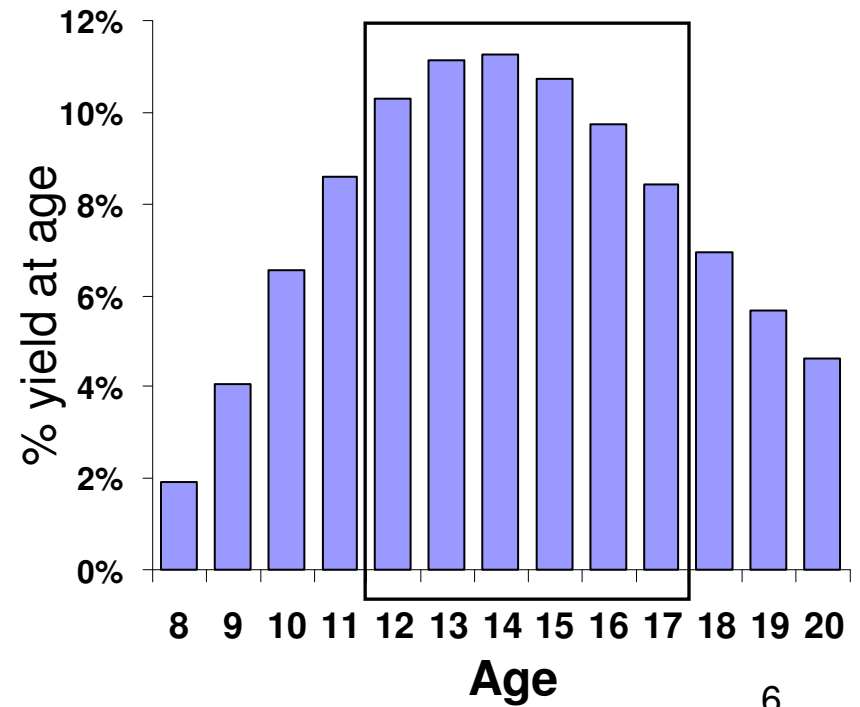
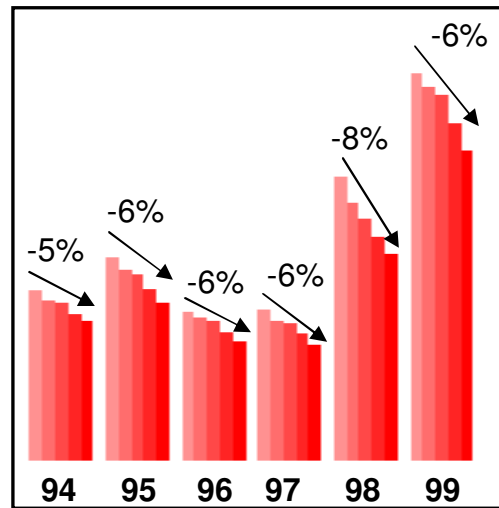
# Projected CW EBio (alternative method, *status quo* trends)

Trend: downwards-revisions of recruitment estimates



Average revision:

-6% /yr



## Projected CW EBio (alternative method)

- 1) Using Min, Avg and Max CW estimated recruitment
- 2) Avg Recruits, reduced rec. (R.R), reduced size-at-age (R.S) and both (R.R,S)

**Cautionary note:** these projections assume no uncertainty on 2011 initial numbers and HR: 0.2

