



SRB Reports

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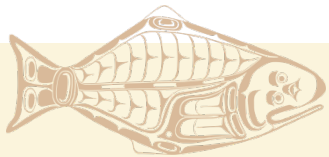
SRB08 – June 2016

SRB09 – Sept 2016

SRB08: Space-time* modeling

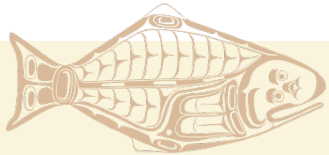
- Pros
 - Accounts for consistent spatial-temporal patterns such as hotspots and localized “year-effects”
 - Eliminates most *ad hoc* adjustments
 - Uses local data in extrapolations (e.g., Salish Sea)
- Cons
 - It’s a model...hard to communicate; costly to build, manage, and maintain; requires highly specialized knowledge
 - WPUE values used in assessment are model predictions, not data

* SRB recommended naming “geostatistical approach”



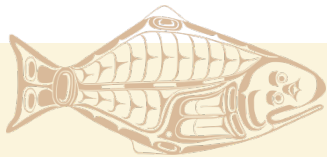
SRB08: Biological/Ecosystem Program

- Encouraging developments in genetic methods for sexing fish
- Improving understanding of spawning behaviour that may impact how SSB is defined
- Improving understanding of halibut growth
- Estimating DMRs: SRB recommends simulation studies to evaluate likelihood of success as function of effort/cost
- Needs to maintain alignment with assessment needs



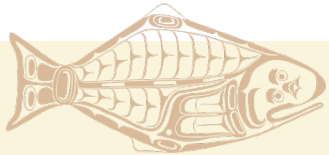
SRB08: Stock assessment modeling

- **Spatial assessment model:** strategic model for exploring implications of
 - Movement: sex, age, region
 - Selectivity: fleet/area
 - Harvest rates: area



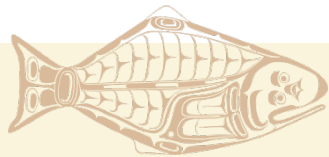
SRB08: Stock assessment modeling

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- **Spatial assessment model:** precursor to spatial operating model for MSE simulations



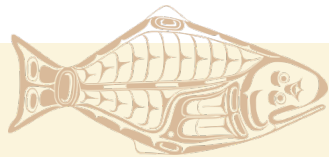
SRB08: Stock assessment modeling

- **Spatial assessment model:** strategic model for exploring implications of
 - Movement: sex, age, region
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- **Spatial assessment model:** precursor to spatial operating model for MSE simulations
- Too uncertain to use as tactical tool for setting annual TACs



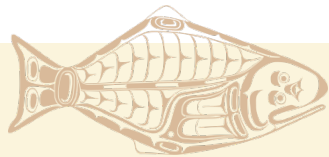
SRB09: Space-time modeling

- **Updated space-time model results**
- **Survey timing adjustment: SRB recommendation**
 - drop EBIO
 - use recent estimated area-specific harvest rates



SRB09: Stock assessment

- **Reviewed sources of mortality:** components and communication
- **Spatial model:** SRB recommendation
 - Develop benchmark data to guide spatial model fitting
 - What data ***must be fit*** by the spatial model to provide credibility?



SRB09: Management strategy

- **Progress on objectives essential to future science work**

