Latvian, Estonian and Swedish approach to catch fish and fishery in national MSP

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Baltic SCOPE project
## Status of national MSP

<table>
<thead>
<tr>
<th>Estonia</th>
<th>Latvia</th>
<th>Sweden</th>
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</thead>
<tbody>
<tr>
<td>• Pärnu County sea area MSP in finalization phase</td>
<td>• Final draft of MSP -&gt; Goverment (2017)</td>
<td>• MSP-sketch released 1th December for sector discussions to serve as input to a MSP- draft in winter 2017</td>
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<tr>
<td>• Hiiu County sea area MSP in finalization phase</td>
<td>• time perspective of the plan is up to 2030</td>
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<td></td>
<td>• Latvian EEZ</td>
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Sweden

- [Government](#)
Fish and fishery in MSP

**WHAT**
- Commercial fish species
  - Landings
  - Efforts
  - Nursery grounds
  - Spawning grounds
- Species diversity
- Invasive species
- Harbors

**HOW**
- Commercial fishery data
- Surveys data
- Literature analyses
- National interest areas for fisheries
Study area - The Central Baltic Sea

Countries
- Estonia
- Latvia
- Sweden

Years
- 2004 - 2016

Fish species
- 10 commercial fish species

Type of information
- Fishing grounds
- Nursery grounds
- Spawning grounds
- Harbors

Fishery information on national level – logbooks ("normal" and electronic)
Common fish stocks in the Central Baltic Sea
10 (+2)

• Eastern Baltic cod (SD25-32), Central Baltic Sea herring (SD25-29 and 32), Gulf of Riga herring (SD 28.1), Sprat (SD 22-32), Flounder SD 26 and 28, Flounder SD 27, 29-32, Turbot (SD 22-32), Plaice (SD 24-32), Salmon (SD 22-31), Sea trout (SD 22-32) as well as (Brill (SD 22-32) and Dab (SD 22-32))

Source: ICES Advice 2016
Main differences between the compiled national maps

- Different transboundary information
- Different period of time
- Difference in gear type
- Differences in ports/landing places
- Difference in presented in fish habitats
## Transboundary information

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<tr>
<td></td>
<td>Estonian EEZ and the Baltic Sea waters subject to equal access rights under EU CFP</td>
<td>Latvian EEZ</td>
<td>The Basins of Baltic Sea, Bothnia Bay, Kattegat, Skagerak and North Sea</td>
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### Maps

- [Map of Estonia](image)
- [Map of Latvia](image)
- [Map of Sweden](image)
## Data availability

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- **Estonia**: Available from 2014 to 2016
- **Latvia**: Available from 2003 to 2013
- **Sweden**: Available from 2007 to 2012
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<tr>
<th>Data type for commercial fishery</th>
<th>Estonia</th>
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<td></td>
<td>EU Mandatory real time Electronic Reporting System data on trawl fishery and the electronic log-books on coastal fishery</td>
<td>Logbooks (it provides longer time series, more detailed information in small scale)</td>
<td>Logbook System used for further calculations of unique trips in relation to registered first price buyer of catches.</td>
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</table>
Only 20% of Latvian cod landings are from Latvian EEZ
Differences in ports/landnining places

All ports  Important ports for fishing  Important ports (in text)
Nurseries and spawning grounds

- Herring, coastal zone
- Herring, sprat, cod, flounder, turbot, coastal zone
- Cod, herring, flounder, turbot, pikeperch, vendace, whitefish
Nurseries and spawning grounds

• What should we include in the maps?
• Potential spawning grounds or observed?
• What approach is the best?
  • National level
  • By stocks
  • The same for the Baltic Sea

Source: Aro, 1989
Next steps...

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<tr>
<td>Estonian trawl fishery outside national EEZ is well covered by Electronic Reporting System (management) and VMS data (used for control purposes)</td>
<td>Latvian fishing grounds outside of national EEZ, compilation of VMS+logbook data</td>
<td>Updated maps on kilograms and economic values in fisheries as well as improved historic spatial data on fisheries and fish habitat.</td>
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For the discussion....

• How to present fishery in MSP?
  • Logbooks
  • VMS
  • VMS+logbooks

• How to present habitats in MSP?
  • Observed or potential?