Activities of the Aquatic Animal Health Standards Commission
Dr Ingo Ernst
Overview

1. Aquatic Animal Commission activities
2. Developments in aquatic animal health
3. Work programme
4. Texts proposed for adoption
5. Reference Centres
6. Texts for comment
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1. Aquatic Animal Commission activities
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Commission members

- Dr. Joanne Constantine
- Dr. Edmund Peeler
- Dr. Alicia Gallardo Lagno
- Prof. Mohamed Shariff Bin Mohamed Din
- Dr. Maxwell Barson
- Dr. Ingo Ernst
Aquatic Animals Commission activities

• Since the 2017 General Session, the Aquatic Animals Commission met in:
  – September 2017
  – February 2018

• Electronic work between meetings

• Commission members are observers at the *ad hoc* Groups meetings
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Humans eat more fish than ever
World per capita fish supply is >20kg/person/yr compared to 10 in the 1960s

More fish is farmed than ever
Half of all fish for human consumption is grown in aquaculture

More fish is traded than ever
The value of seafood exports more than doubled in 10 years

Source of statistics: FAO Status of Fisheries and Aquaculture 2014
...the consequences of aquatic animal diseases are greater than ever

Aquatic animal diseases have:
- Destroyed fisheries resources (e.g. abalone, sardines)
- Damaged or destroyed farm productivity (e.g. OsHV-1, WSD)
- Destroyed biodiversity (e.g. crayfish plague, chytrid fungus in frogs)
- Damaged economies (e.g. AHPND, ISA).

*Implementation of OIE standards*

Source of statistics: FAO Status of Fisheries and Aquaculture 2014
• Meets the definition of an emerging disease

• TiLV assessed for listing but does not meet criterion 3 “a precise case definition is available and a reliable means of detection and diagnosis exists”

• Reporting (at 2017 GS no countries had reported TiLV).
Tilapia lake virus (TiLV) - actions

- Now reported to OIE Headquarters by 6 countries

- Electronic *ad hoc* Group on tilapia lake virus convened
  - considered TiLV diagnostics and assay validation
  - reviewed available information on methods for TiLV detection
  - provided advice on additional method development and validation requirements
  - has initiated cooperative work to validate tests and distribute control material.

- Technical disease card revised
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Aquatic Code

• Ongoing work to apply Criteria for listing species as susceptible (Ch 1.5.)

• New draft chapter on Aquatic animal biosecurity for aquaculture establishments (4.X.)

• Develop principles for determining surveillance periods in disease-specific chapters.
Aquatic Manual

- Ongoing work to apply Criteria for listing species as susceptible (Ch 1.5.)

- Apply the new Aquatic Manual disease chapter template
26 texts for adoption
8 texts for comment
4 annexes for information
• All Member Countries’ comments supported by a rationale, are considered by the Commission

• Explanations to long standing issues provided in previous reports

• Reports of ad hoc Groups, provided as annexes to the Commission reports (and on a dedicated location on the OIE website).
• Unofficial version of meeting report in English on the Delegates’ website

• Official versions (in English, French and Spanish)

• Aquatic Animal Commission reports also available on the OIE website

• Aquatic Focal Points are also notified when meeting reports are uploaded.
Collaboration with other Commissions

• Regular meetings between President of Aquatic Animals Commission and Presidents of the Terrestrial Code Commission and Biological Standards Commission

• Identify and discuss common issues

• Facilitates harmonisation, as relevant.
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Chapters proposed for adoption
Annexes 3 to 28
Doc. 86 SG/12/CS4 B
Aquatic Code – Annexes 3 to 22

Annex 3. User’s guide
Annex 4. Glossary
Annex 5. Diseases listed by the OIE
(Chapter 1.3.)
Annex 6. OIE Procedures Relevant to the Agreement on the Application of Sanitary and Phytosanitary Measures of the World Trade Organization (Chapter 5.3.)
Annex 7. Criteria to assess the safety of aquatic animal commodities (Chapter 5.4.)
Annex 8. New draft chapter for Infection with *Batrachochytrium salamandrivorans* (Chapter 8.X.)
Annex 9. Infection with *Batrachochytrium dendrobatidis* (Chapter 8.1.)
Annex 10. Infection with ranavirus (Chapter 8.2.)
Annex 11. Infection with infectious hypodermal and haematopoietic necrosis virus (Articles 9.4.1. and 9.4.2.)
Annexes 12 – 21
Fish disease-specific chapters

Annex 12. Chapter 10.1. Epizootic haematopoietic necrosis
Annex 13. Chapter 10.2. Infection with *Aphanomyces invadans* (epizootic ulcerative syndrome)
Annex 14. Chapter 10.3. Infection with *Gyrodactylus salaris*
Annex 15. Chapter 10.4. Infection with infectious salmon anaemia virus
Annex 16. Chapter 10.5. Infection with salmonid alphavirus
Annex 17. Chapter 10.6. Infectious haematopoietic necrosis
Aquatic Manual – Annexes 23 to 28

Annex 23. Ch 2.2.8. White spot disease
Annex 24. Ch 2.3.1. Infection with Epizootic haematopoietic necrosis virus
Annex 25. Ch 2.3.3. Infection with Gyrodactylus salaris
Annex 26. Ch 2.3.5. Infection with infectious salmon anaemia virus
Annex 27. Ch 2.2.3. Infection with infectious hypodermal and haematopoietic necrosis virus (Section 2.2)
Annex 28. Ch 2.2.1. Acute hepatopancreatic necrosis disease (Section 2.2)
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<thead>
<tr>
<th>Disease</th>
<th>Institution</th>
<th>Expert</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infectious haematopoietic necrosis</td>
<td>Pacific Biological Station – Aquatic Animal Health Laboratory, Fisheries &amp; Oceans Canada, Nanaimo, British Columbia, Canada</td>
<td>Dr Kyle Garver</td>
</tr>
<tr>
<td>Viral haemorrhagic septicaemia</td>
<td>Pacific Biological Station – Aquatic Animal Health Laboratory, Fisheries &amp; Oceans Canada, Nanaimo, British Columbia, Canada</td>
<td>Dr Kyle Garver</td>
</tr>
<tr>
<td>Acute hepatopancreatic necrosis disease</td>
<td>National Cheng Kung University, Tainan City, Chinese Taipei</td>
<td>Dr Grace Chu-Fang Lo</td>
</tr>
<tr>
<td>Infectious haematopoietic necrosis</td>
<td>Animal and Plant Inspection and Quarantine Technical Centre, Shenzhen Exit &amp; Entry Inspection and Quarantine Bureau, Guangdong Province, China (People’s Rep. of)</td>
<td>Dr Hong Liu</td>
</tr>
<tr>
<td>Koi herpesvirus disease</td>
<td>Friedrich-Loeffler-Institut (FLI), Federal Research Institute for Animal Health, Institute of Infectology, Insel Riems, Germany</td>
<td>Dr Sven M. Bergmann</td>
</tr>
<tr>
<td>Viral haemorrhagic septicaemia</td>
<td>Aquatic Animal Quarantine Laboratory, General Service Division, National Fishery Products Quality Management Service, Ministry of Oceans and Fisheries, Busan, Korea (Rep. of)</td>
<td>Dr Hyoung Jun Kim</td>
</tr>
</tbody>
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### OIE Reference Laboratories change of expert

<table>
<thead>
<tr>
<th>Disease</th>
<th>Institution</th>
<th>Previous expert</th>
<th>New expert</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taura syndrome</td>
<td>Aquaculture Pathology Laboratory, School of Animal and Comparative Biomedical Sciences, University of Arizona USA</td>
<td>Dr Kathy Tang-Nelson</td>
<td>Dr Arun K. Dhar</td>
</tr>
</tbody>
</table>
ISO 17025 requirement: OIE Reference Laboratories identified for suspension

<table>
<thead>
<tr>
<th>Disease</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Infection with <em>Aphanomyces invadans</em> (epizootic ulcerative syndrome)</td>
<td>Kasetsart University Campus, Bangkok, Thailand</td>
</tr>
<tr>
<td>White tail disease</td>
<td>C. Abdul Hakeem College, Aquaculture Biotechnology Division, India</td>
</tr>
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</table>
## OIE Reference Laboratories requested delisting

<table>
<thead>
<tr>
<th>Disease</th>
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<th>Expert</th>
</tr>
</thead>
<tbody>
<tr>
<td>Infection with <em>Haplosporidium nelsoni</em></td>
<td>Virginia Institute of Marine Science, Virginia, USA</td>
<td>Dr Ryan Carnegie</td>
</tr>
<tr>
<td>Infection with <em>Perkinsus marinus</em></td>
<td>Virginia Institute of Marine Science, Virginia, USA</td>
<td>Dr Ryan Carnegie</td>
</tr>
<tr>
<td>Infection with <em>Perkinsus olsenii</em></td>
<td>Virginia Institute of Marine Science, Virginia, USA</td>
<td>Dr Ryan Carnegie</td>
</tr>
<tr>
<td>Infection with <em>Xenohaliotis californiensis</em></td>
<td>University of Washington, USA</td>
<td>Prof. Carolyn Friedman</td>
</tr>
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Chapters circulated for comment

**Aquatic Code**
- Annexes 30A and 30B. Criteria for listing species as susceptible (Chapter 1.5.); clean (A) and track changes (B)
- Annex 31. Infection with salmonid alphavirus (Article 10.5.2)
- Annex 32. Koi herpesvirus disease (Article 10.7.2)
- Annex 33. Spring viraemia of carp (Article 10.9.2)

**Aquatic Manual**
- Annex 34. Infection with salmonid alphavirus (Chapter 2.3.6.)
- Annex 35. Koi herpesvirus disease (Chapter 2.3.7.)
- Annex 36. Infection with yellow head virus genotype 1 (Chapter 2.2.9.) (Section 2.2.2.)

**Deadline is 30th July 2018**
Email: [standards.dept@oie.int](mailto:standards.dept@oie.int)
Save the date!

4th OIE Global Conference on Aquatic Animal Health

Santiago, Chile
9 to 11 April 2019
Thank you for your attention