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**Report of the Working Group on
Wildlife**

William B. Karesh, DVM

■ **Current Composition of the Working Group on Wildlife**

- Dr William B. Karesh (United States of America) (Chairman)
- Dr John Fischer (United States of America)
- Dr Markus Hofmeyr (South Africa)
- Prof. Ted Leighton (Canada)
- Dr Torsten Mörner (Sweden)
- Prof. Koichi Murata (Japan)
- Dr Marie-Pierre Ryser-Degiorgis (Switzerland)

- **Annual Meeting held 12-15 December, 2017**
- 4 additional meetings via teleconference during the year.
 - **Dr Juan Antonio Montaña Hirose participated in the meeting as a representative of the Scientific Commission for Animal Diseases**
 - **Updated Terms of Reference for the Working Group**

■ Possible Indicators

1. Changes in population size and geographic distribution (including altitudinal change).
2. Altered feeding behavior of wildlife.
3. Altered (including novel) microbial fauna that typically inhabit a given species (including microbial agents with zoonotic potential).
4. Changes in pathogen prevalence.



- Possible Indicators - cont.

- 5. Change in the timing of various life-history events.



■ Indicators - cont.**5. Change in the timing of various life-history events. For example:**

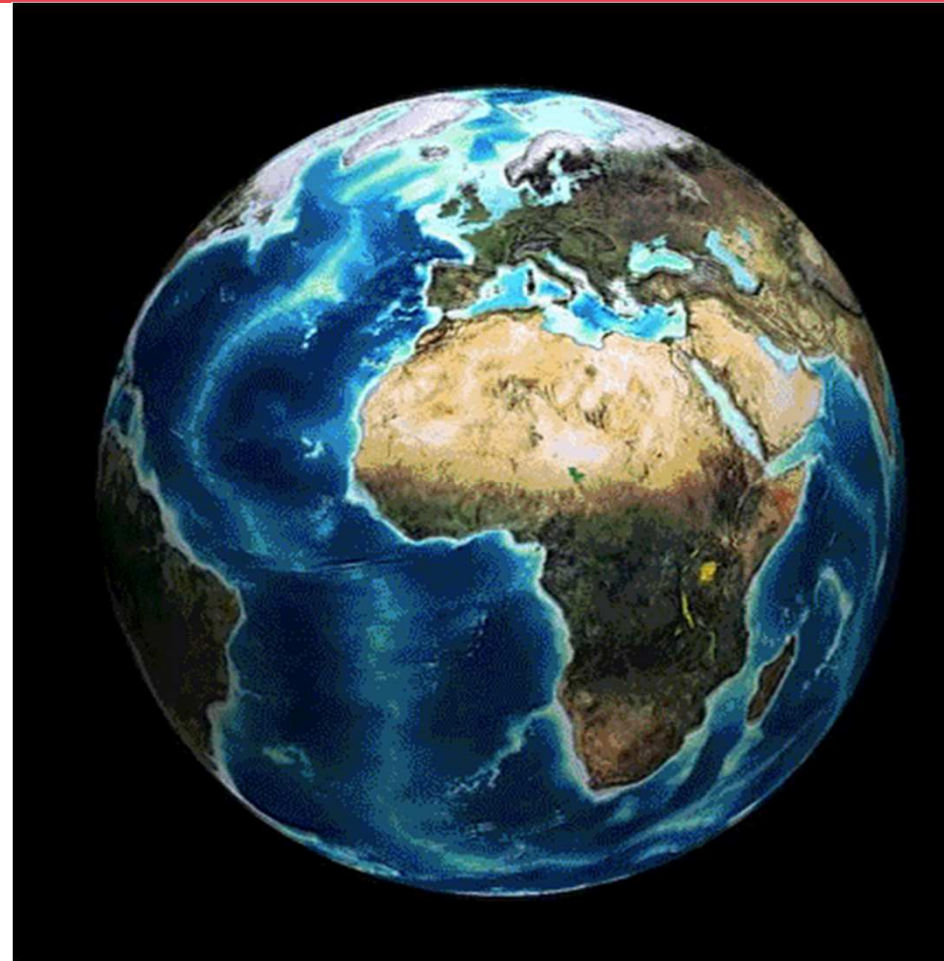
- **Altered breeding seasonality.**
- **Impact the extent or timing of migration for migratory species.**
- **Mass mortality events due to thermal or oxygen stress, starvation, and/or increased incidence of opportunistic infections.**
- **Temperature dependent expression of disease due to pathogen sensitivity to environmental conditions.**
- **Altered survival of vectors (ticks/biting flies etc.) due to milder winters and wider movement (naturally and human aided) of wildlife and livestock.**

- Working with OIE World Animal Health Information and Analysis Dept. (WAHIAD)
 - Annual review of pathogen and host taxonomy
 - REMOVED FROM the voluntary reporting list:
 - Infection with Calicivirus in marine mammals,
 - Infection with *Histomonas* spp.,
 - *Batrachochytrium salamandrivorans* sp.

- Working with WAHIAD
 - Annual review of pathogen and host taxonomy
 - ADDED TO the voluntary reporting list:
 - *Ophidiomyces ophiodiicola* (the agent of snake fungal disease)
 - Infection with non-listed morbilliviruses in other taxonomic groups of hosts

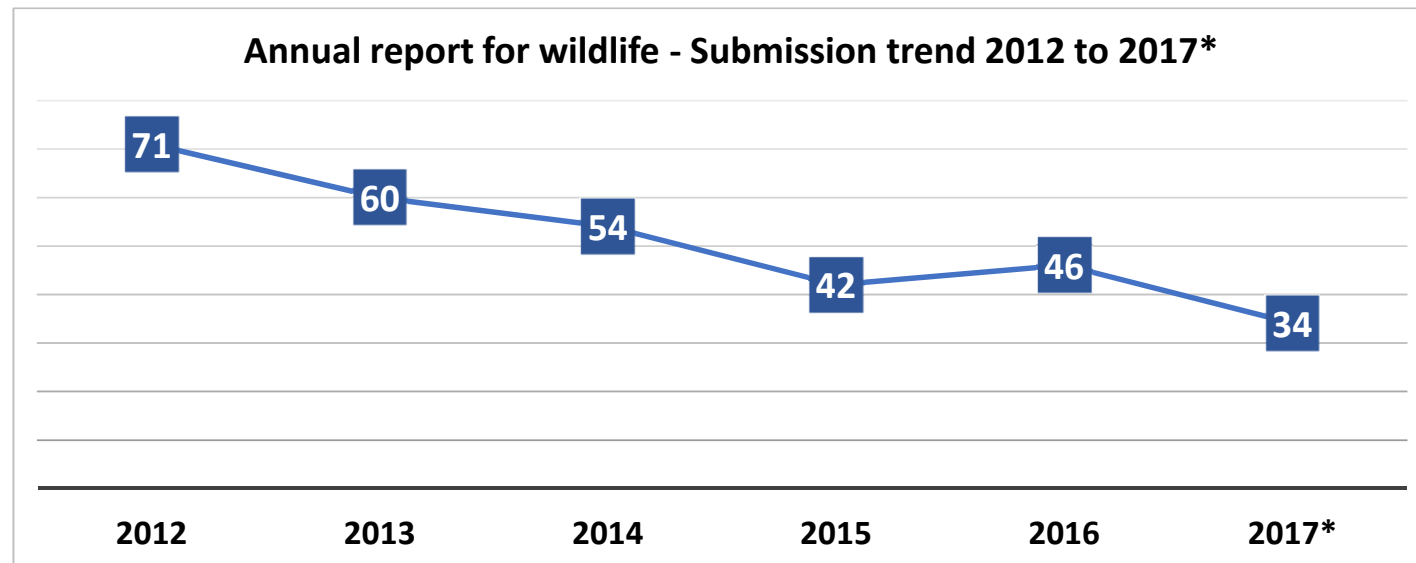


- **Working with WAHIAD**
 - **Global Review of reporting**



- Working with WAHIAD

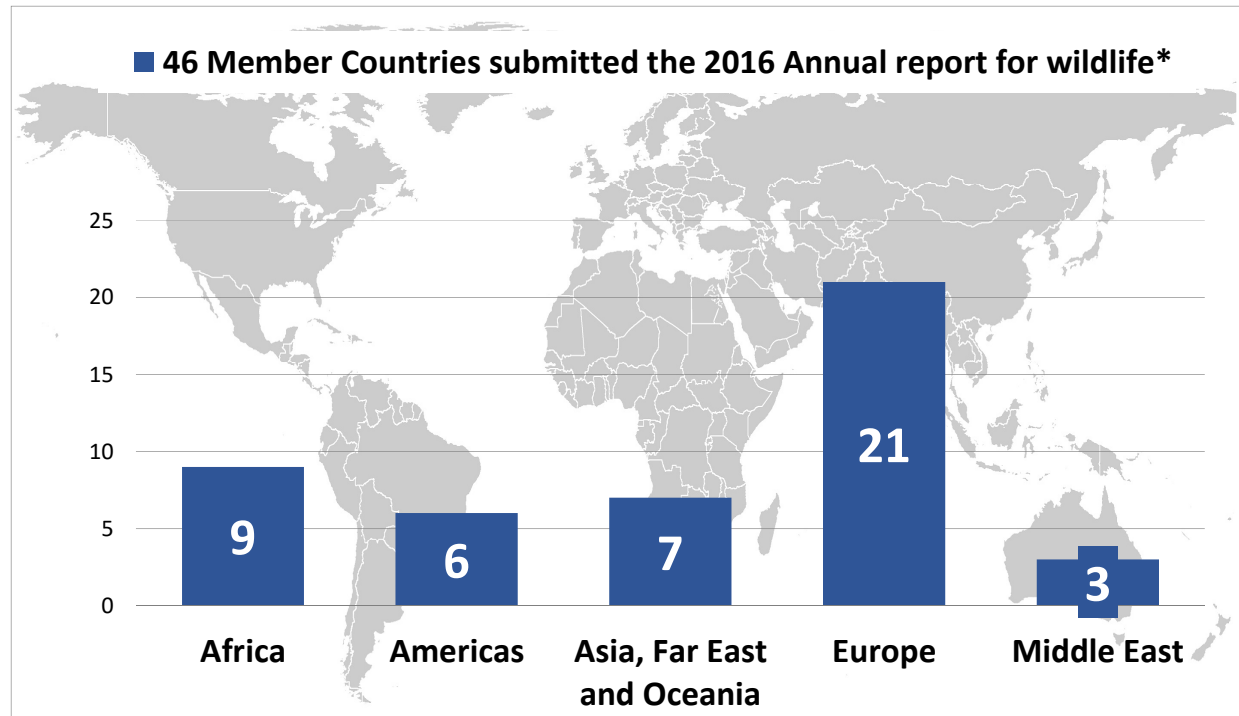
- Global Review of reporting



(*) Up to 17th May 2018

Working with WAHIAD

- Global Review of reporting



(*) Up to 17th May 2018

Working with WAHIAD

- Global Review of reporting



(*) Up to 17th May 2018

Annual Summary of Emerging and Noteworthy Wildlife Diseases

- African swine fever
- anthrax
- avian influenza
- bovine and human tuberculosis
- brucellosis
- bubonic plague
- canine distemper
- chronic wasting disease
- Congo Crimean haemorrhagic fever
- novel bat coronavirus infection in swine
- MERS-coronavirus infection
- dorsal dermatitis in moose
- *Echinococcus multilocularis*
- feline immunodeficiency virus
- foot and mouth disease
- *Klebsiella pneumoniae* subsp. *pneumoniae* in seals
- Lassa fever
- lymphoproliferative disease in wild turkeys
- Marburg haemorrhagic fever
- monkeypox
- new world screwworms in deer
- oedema disease in wild boar
- orbiviral hemorrhagic disease
- *Perkinsea*-associated mass mortality of frogs
- west nile virus
- rabies
- ranid herpesvirus 3
- rhabdoviruses in bats
- Rift Valley fever
- novel rotavirus in pigeons
- *Salmonella enterica*
- snake fungal disease
- *Suttonella ornithocola* in tits (*paridae*)
- tick-borne infectious diseases
- *Trichomonas* infection in wild songbirds
- tularemia
- usutu virus
- North Atlantic right whale mortalities

- **First European detection of CWD cases in Norway in 2016**
- **Testing of >31,000 animals – reindeer, red deer, roe deer, moose**
- **By December 2017 CWD detected in:**
 - **9 Free-ranging reindeer**
 - **3 moose**
 - **1 red deer**



- In Kazakhstan, no further mass mortalities have been observed since 2015
- In Mongolia, Saiga antelope, ibex, goitered gazelles and Bharal were affected during a Peste des Petits Ruminants outbreak in 2017
- Mortality of Saiga was estimated to be 55% of the entire population in the country



- **African Swine Fever in Europe**
- *Batrachochytrium salamandrivorans*
- **International Council for Game and Wildlife Conservation and OIE joint project - Regional training course for hunters held in Bulgaria**
- **Disease Initiatives relevant for wildlife or biodiversity at the regional or international levels**



Convention on Trade in Endangered Species - CITES

- **Regional Training Seminar of OIE National Focal Points for Wildlife – 5th Cycle will start, with Europe, in June 2018**
- **Participation in OIE Conference & *ad hoc* Group meetings**
 - 2nd OIE Global Conference on Biological Threat Reduction
 - *Ad hoc* Group on Transport of Biological Materials
 - *Ad hoc* Group on the killing methods for reptiles
- **Diagnostic Methods for Wildlife**
- **Priority setting for 2018**

■ Recognition of Service to the Working Group on Wildlife

- Dr Roy Bengis – South Africa – founding member in 1994
- Dr John Fisher – United States of America
- Dr Frederick (Ted) Leighton – Canada
- Dr Torsten Morner – Sweden – founding member in 1994

■ Working Group on Wildlife: Updated Terms of Reference

1. The Working Group **reports to the OIE Director General** who will transmit the report, or relevant parts of it, to the appropriate Specialist Commissions of OIE.
2. Maintain **global perspective and foresight on wildlife health and biodiversity** and their interface with animal health and veterinary public health, in particular:
 - a) wildlife health and disease issues of importance to the OIE, including **emerging diseases, vector borne diseases and zoonosis**;
 - b) **invasive species** of potential importance to the OIE through their impacts on biodiversity;
 - c) **climate change impacts** on animal health, wildlife health and biodiversity.
3. Assist the OIE Director General, the Scientific Commission and other OIE Specialist Commissions to **assess risks and make risk management recommendations**, including the development of OIE Standards and Guidelines, associated with wildlife health and biodiversity.

■ Working Group on Wildlife: Updated Terms of Reference

5. Assist OIE with **training of OIE National Focal Points for Wildlife** and other efforts to support Member Countries, especially in building or improving their capacity to meet OIE standards and obligations with respect to wildlife health and biodiversity and their interface with animal health and veterinary public health.
6. Assist the OIE to **receive, record, and interpret information on wildlife disease**, including emerging diseases, vector borne diseases, zoonosis and invasive species occurrence from official sources through WAHIS, and support an international network to provide information from non-official sources.
7. Address **specific issues** referred to the Working Group by the OIE Director General, which may include matters recommended by Specialist Commissions, Members or the OIE itself.

■ Working Group on Wildlife: Updated Terms of Reference

8. Assist the OIE to **communicate and disseminate information** about wildlife health and biodiversity, and represent OIE as requested.
9. Assist OIE to incorporate wildlife health and biodiversity issues of importance to the OIE appropriately in its **educational and scientific programs and publications**.
10. Assist OIE in supporting the activities of **Collaborating Centres on wildlife health and biodiversity**.
11. Support the OIE in its **interactions and collaborations with international organisations** working on the animal, human and environmental health interface, and with the wider stakeholder community engaged on these issues.

Working Group on Wildlife: Updated Terms of Reference

MODE OF OPERATION FOR THE WORKING GROUP ON WILDLIFE

1. The Working Group normally will hold **annually one face-to-face mid-year meeting** in Paris.
2. The Working Group will meet by **teleconference** two or more times each year. These teleconferences are open to representatives of the Science and New Technologies Department or other relevant Departments of the OIE.
3. The Working Group might use a **secured Internet forum**, when available, to manage discussion, document reviews and related matters and through which OIE personnel also can access output from the Working Group's activities.
4. The Working Group **President will maintain additional regular communication** with the OIE Science and New Technologies Department, and the OIE World Animal Health Information and Analysis Department as appropriate.
5. The Working Group will **revise its work plan annually**.
6. The operating language of the Working Group will be English.

- **Composition of the Working Group on Wildlife 2018/2019**
 - Dr William B. Karesh (United States of America) (Chairman)
 - Dr Markus Hofmeyr (South Africa)
 - Prof. Koichi Murata (Japan)
 - Dr Marie-Pierre Ryser-Degiorgis (Switzerland)
 - Dr Jonathan Sleeman (United States of America)
 - Dr Marcela Uhart (Argentina)
 - Dr Rupert Woods (Australia)



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Merci

Gracias

Thank you