



Animal &
Plant Health
Agency

Formation of an Avian influenza and Newcastle disease diagnosis and surveillance subnetwork
(an initiative within the Central Asia Animal Health Network – CAAHN)

Overview of AI and NDV genetics in Central Asia

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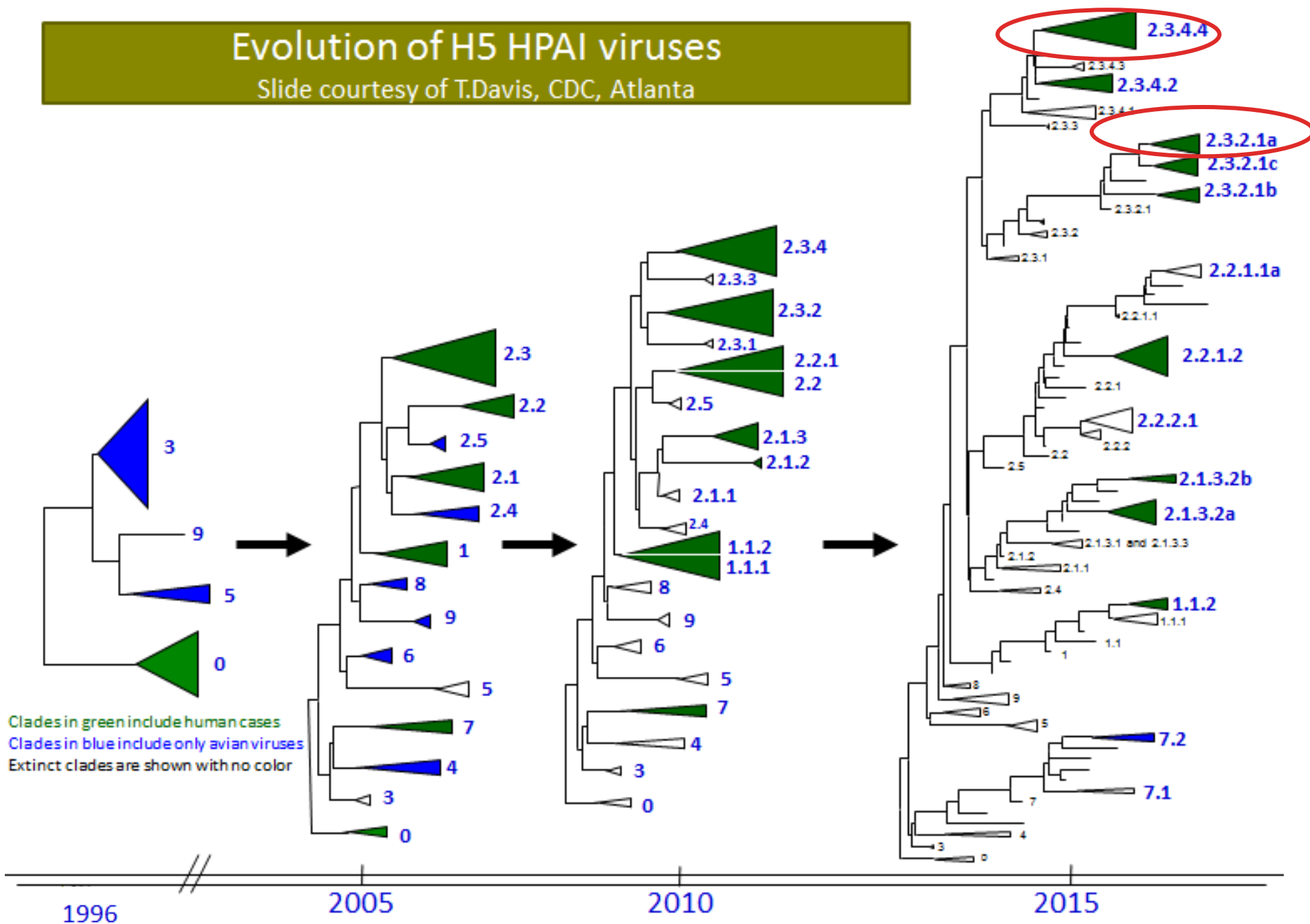
Professor in One Health Evolutionary Biology, Royal Veterinary College, UK

January 2021



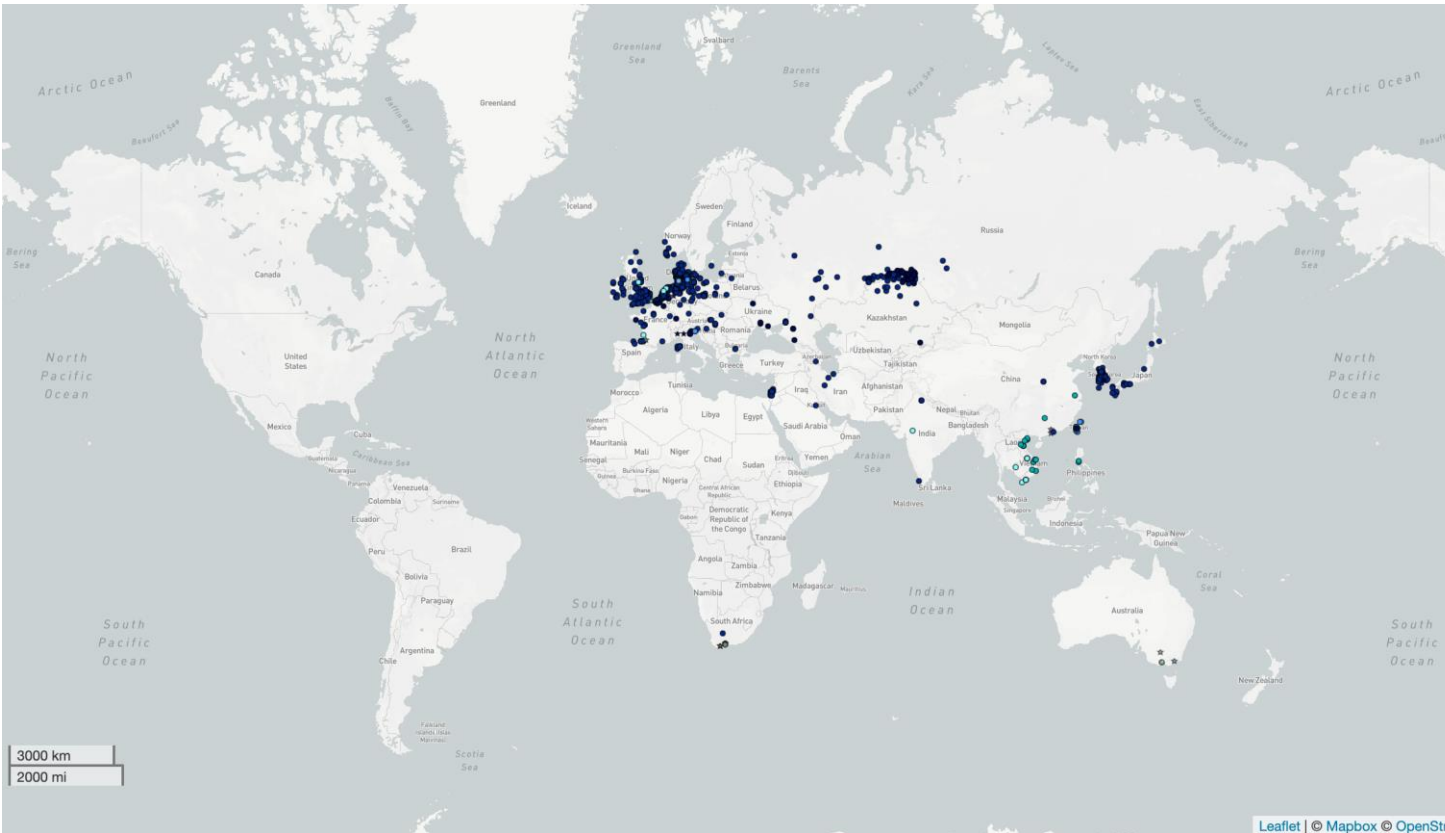
Evolution of H5 HPAI viruses

Slide courtesy of T.Davis, CDC, Atlanta



Current avian influenza activity

- H5, HPAI
- ★ H5, LPAI
- H5N1, HPAI
- H5N2, HPAI
- ★ H5N2, LPAI
- H5N3, HPAI
- ★ H5N3, LPAI
- H5N5, HPAI
- H5N6, HPAI
- H5N8, HPAI
- ★ H5N8, LPAI
- ★ H5N9, LPAI
- ★ H7, LPAI
- ★ H7N6, LPAI
- H7N7, HPAI
- ★ H9N2, LPAI



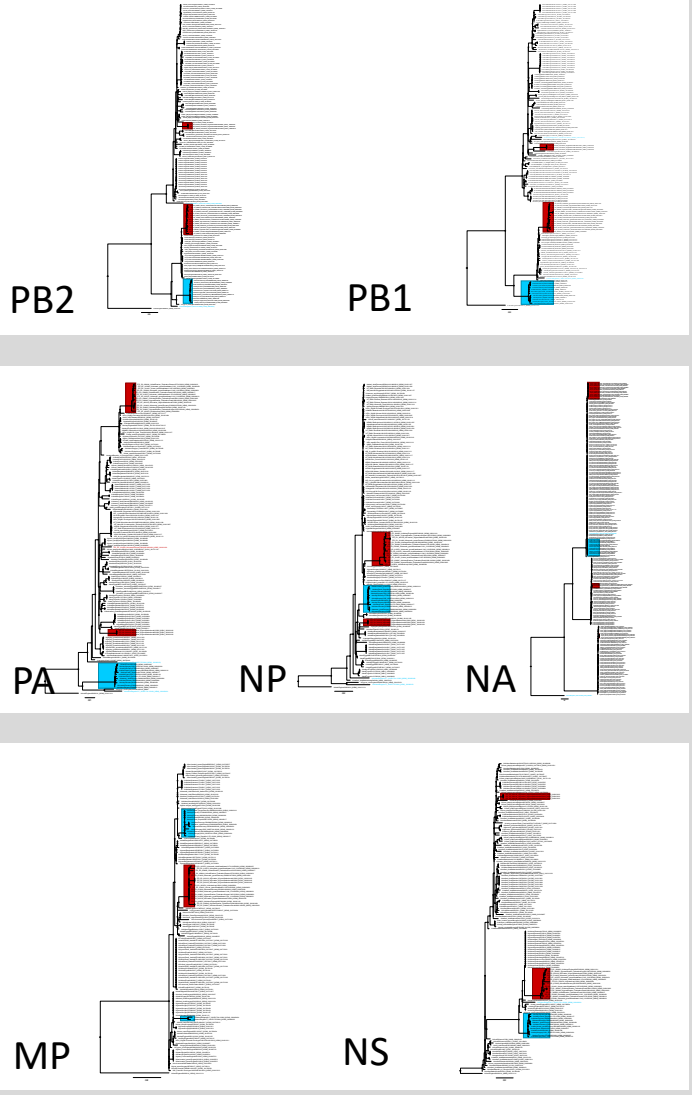
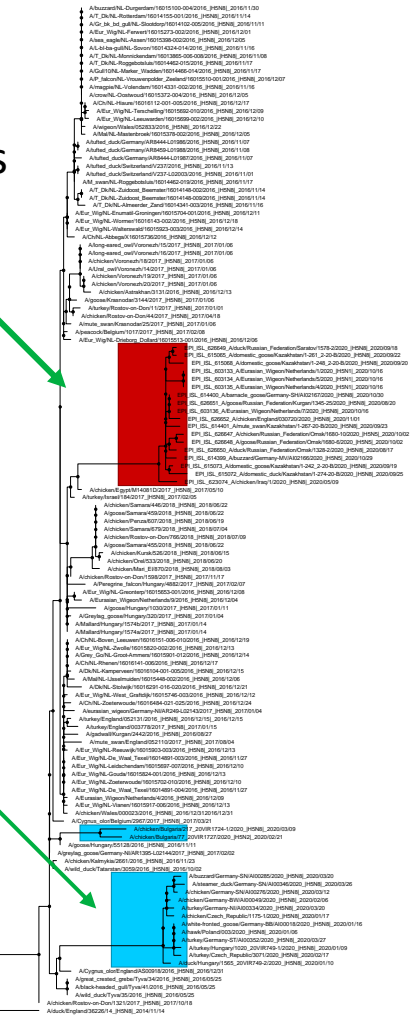
B

May 2020 onwards

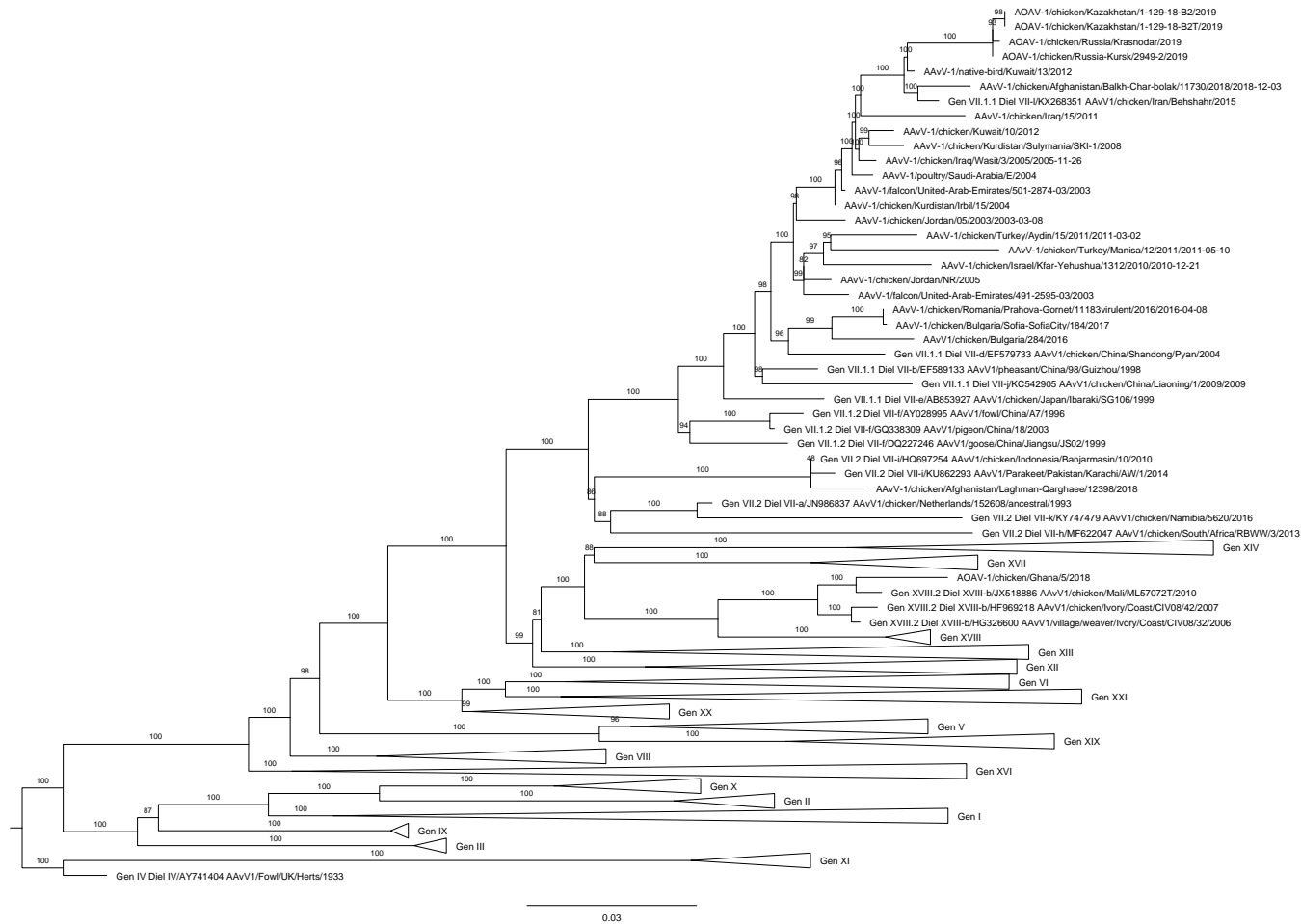
H5 2.3.4.4b

Early 2020

HA



Newcastle Disease



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OFFLU (OIE/FAO)

EFSA/ECDC

WHO CCs London & Atlanta

EU MS national reference labs for Avian Influenza

Third countries sharing biologicals and data with

APHA

Royal Veterinary College

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WHO/OFFLU H5 evolution working group

