

# AVIAN INFLUENZA IN MIGRATORY BIRD IN MONGOLIA

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Ministry of Food and Agriculture  
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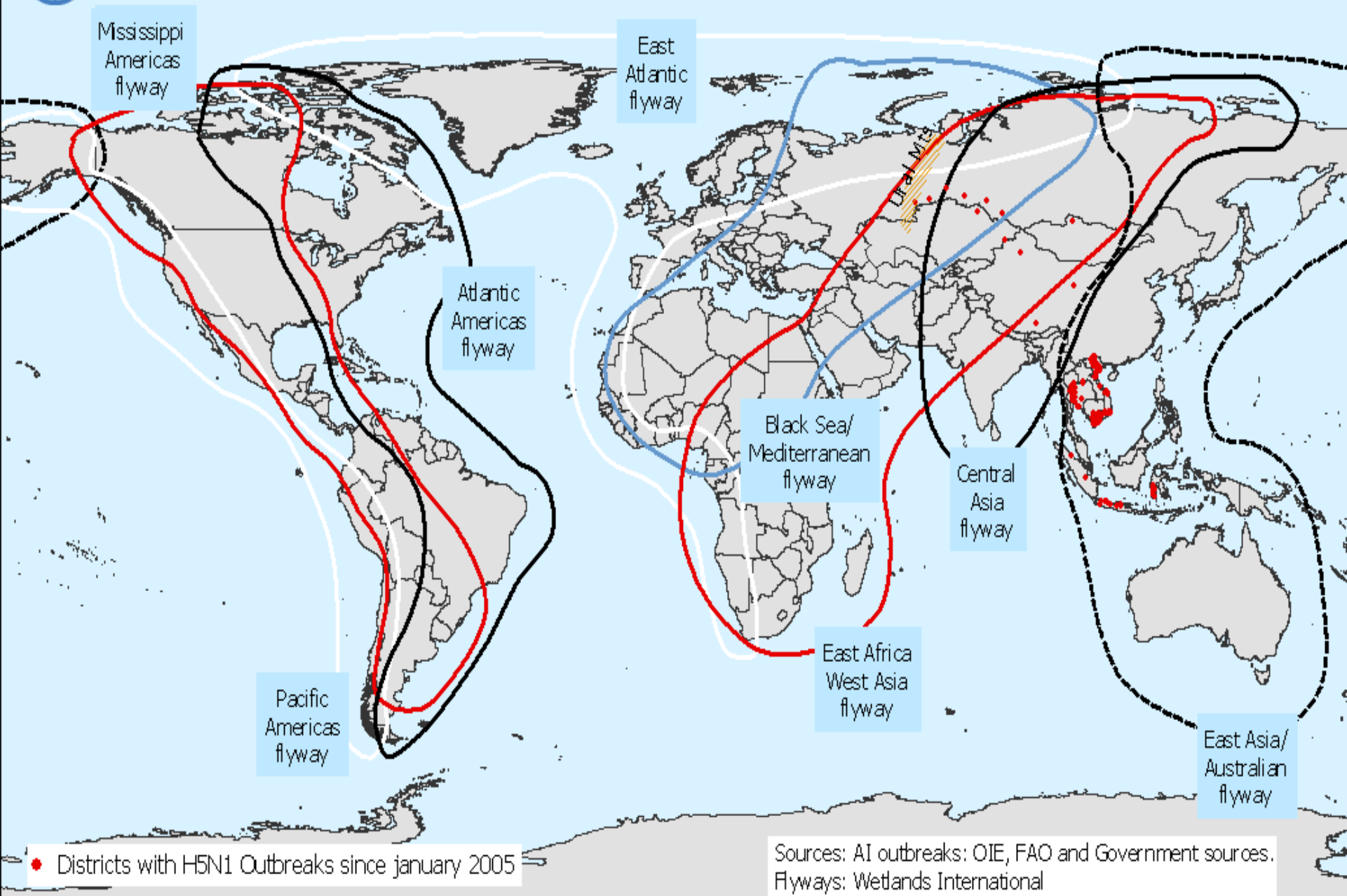
# **RISK OF AVIAN INFLUENZA IN MONGOLIA**

- Migratory birds
- Domestic birds
- Import to product of birds



# H5N1 outbreaks in 2005 and major flyways of migratory birds

Situation on 30 August 2005





# MIGRATORY BIRDS IN MONGOLIA

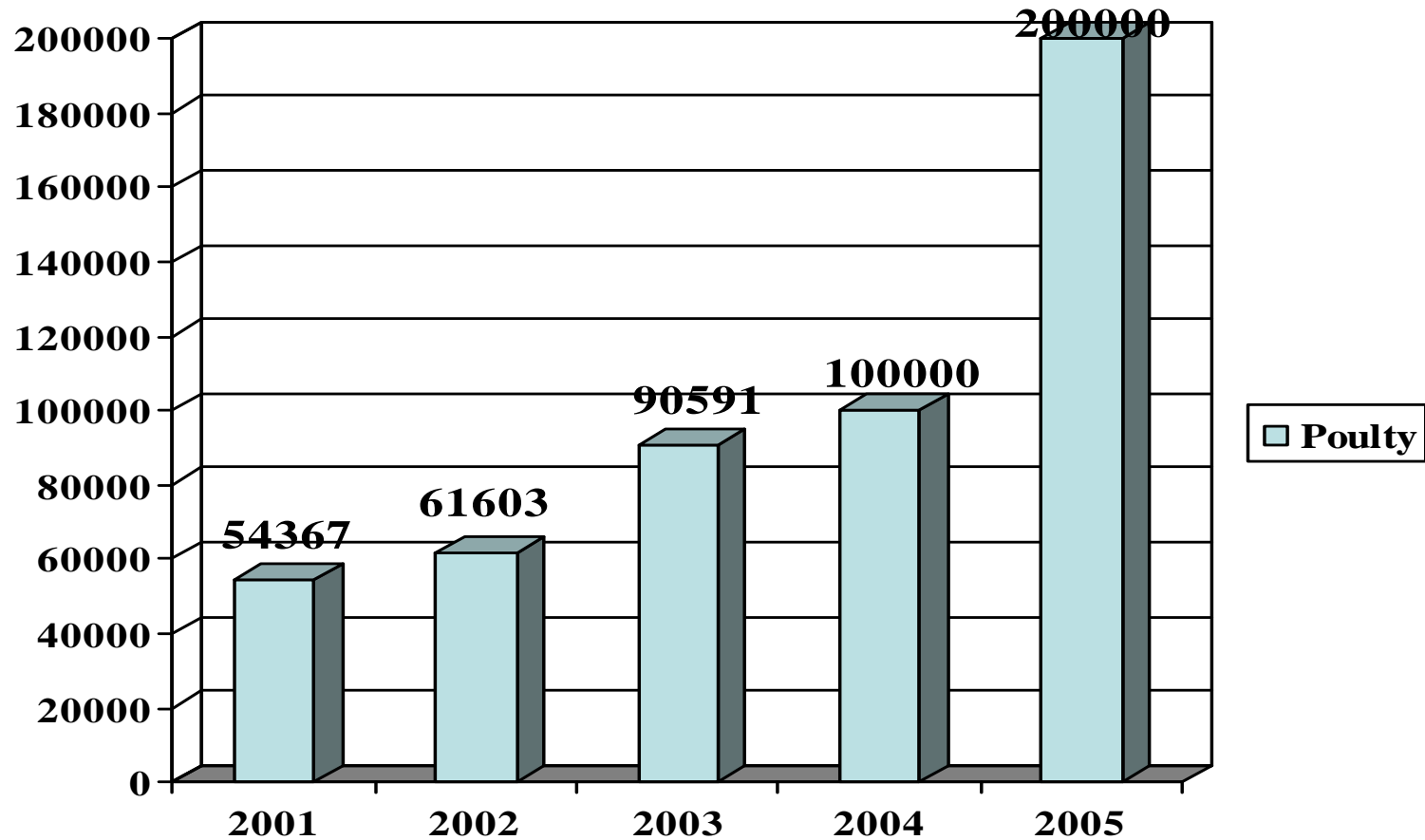
**466 kind of wild birds involved 60 kind of families**

**385 birds are migrating**

**170 species waterfowl**



# POULTRY HUSBANDRY



No disease is registered in domestic fowl.



# H5N1 INFLUENZA IN MONGOLIA



- À / Í5 detected samples are:
- Khuvs gul, Erkhel lake, Swan, goose 2005, common golden eye 2006
  - Bulgan, Khunt lake, Swan 2005, 2006

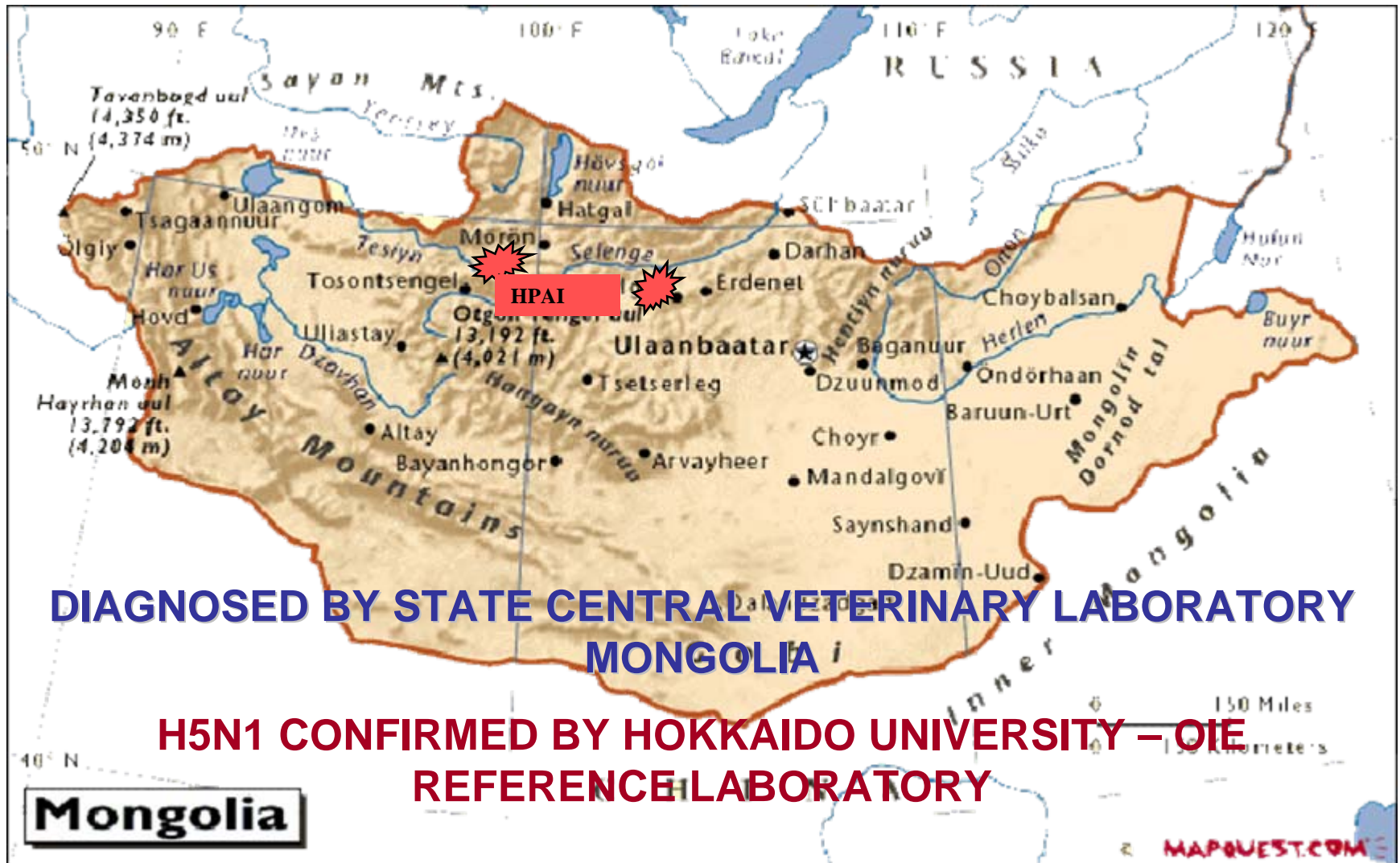
## Clinical signs

- Turning around in water and on land
- Kicking land with beak
- Oedema of the head and neck
- Fever, depression
- Neurological disorders





# Occurrence 2005-2006 ,wild birds



# DIAGNOSIS IN CENTRAL VETERINARY LABORATORY

## Epidemiology

- Clinical examination and pathology
- Rapid test (A/H5) (Anigen Korea, Synbiotics France )
- AGID test (Harbin, China)
- Embryonated eggs and virus isolation
- H sub typing (HI/HA) (Harbin, China)
- N sub typing (biochemical method)
- ELISA (Anigen Korea)
- RT-PCR (Harbin, China, USA)



# DIAGNOSTIC TESTS

No.15

H5

H7

H5

H7

H9

H5

H7

H9

1 / 128

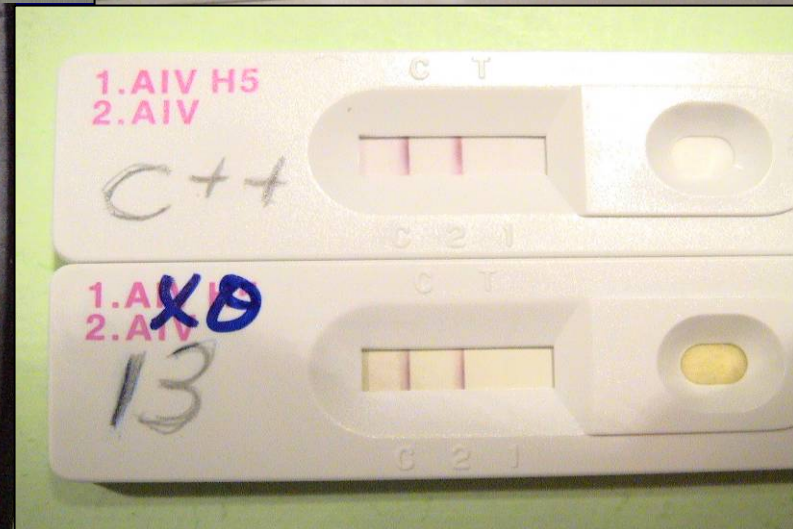
H5 ctrl



229 bp

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òàððè áààñ

400 bp  
300 bp  
200 bp  
100 bp



# SURVEILLANCE FOR AI IN 2005

Provinces	Total number of tested samples	Imfil, ImCr, AGID, HA, HAI and RT- PCR	
Arhangai	10	-	Negative
Bulgan	2	+	<b>A type/H5N1</b> Confirmed by Hokkaido University as H5N1/HP
Gobi-Altai	2	-	Negative
Darhan-uul	7	-	Negative
Dornogovi	3	-	Negative
Zavkhan	1	-	Negative
Orkhon	2	-	Negative
Hentii	2	-	Negative
Uvs	4	-	Negative
Hovd	1	-	Negative
Huvsgel	34	+	<b>A type/H5N1</b> Confirmed by Hokkaido University as H5N1/HP
Tuv	13	-	Negative
Selenge	5	-	Negative
Ulaanbaatar	119	-	Negative
<b>TOTAL</b>	<b>205</b>		

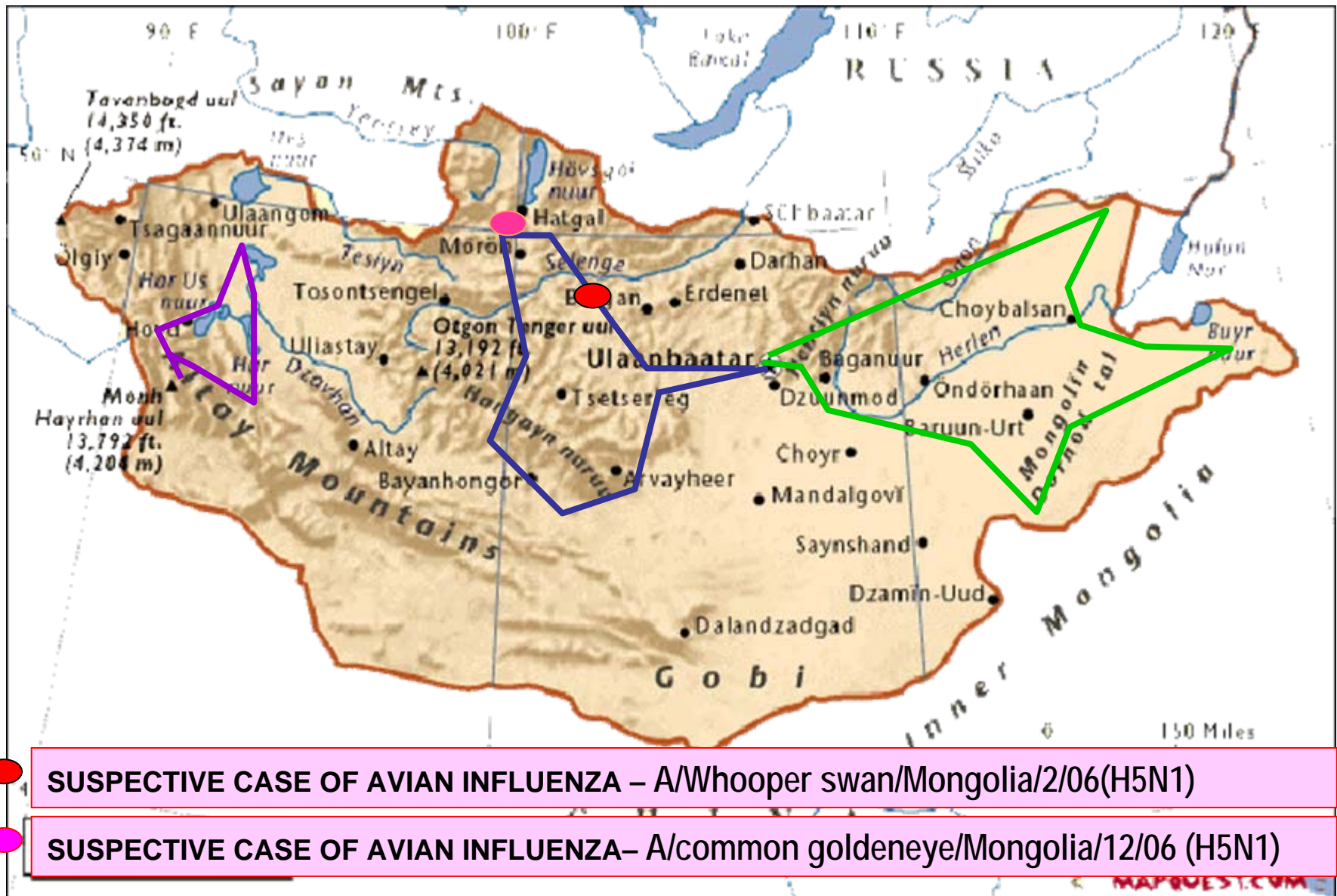


# SURVEILLANCE FOR AI IN 2006

Provinces	Total number of tested samples	Imfil, ImCr, AGID, HA, HAI and RT- PCR	
<b>Central zone</b>	<b>90</b>		
<i>Huvsgel, Erkhel lake</i>	<b>1</b>	<b>+</b>	<b>A type/H5N1</b> Confirmed by Hokkaido University as H5N1/HP
<i>Bulgan, Khunt lake</i>	<b>1</b>	<b>+</b>	<b>A type/H5N1</b> Confirmed by Hokkaido University as H5N1/HP
<b>Eastern zone</b>	<b>150</b>		<b>Negative</b>
<b>Westren zone</b>	<b>120</b>		<b>Negative</b>
<b>TOTAL</b>	<b>360</b>		

# SURVEILLANCE OF INFLUENZA IN MIGRATORY BIRD – 2006

## SCVL, NCIDNF, INST-BIOLOGY





# VACCINE



**HARBIN WEIKANG BIOTECHNOLOGY DEVELOPMENT CO.**



# Thank you

State Central Veterinary Laboratory  
MONGOLIA