

**NC STATE**

Veterinary Medicine

**Population Health  
and Pathobiology**

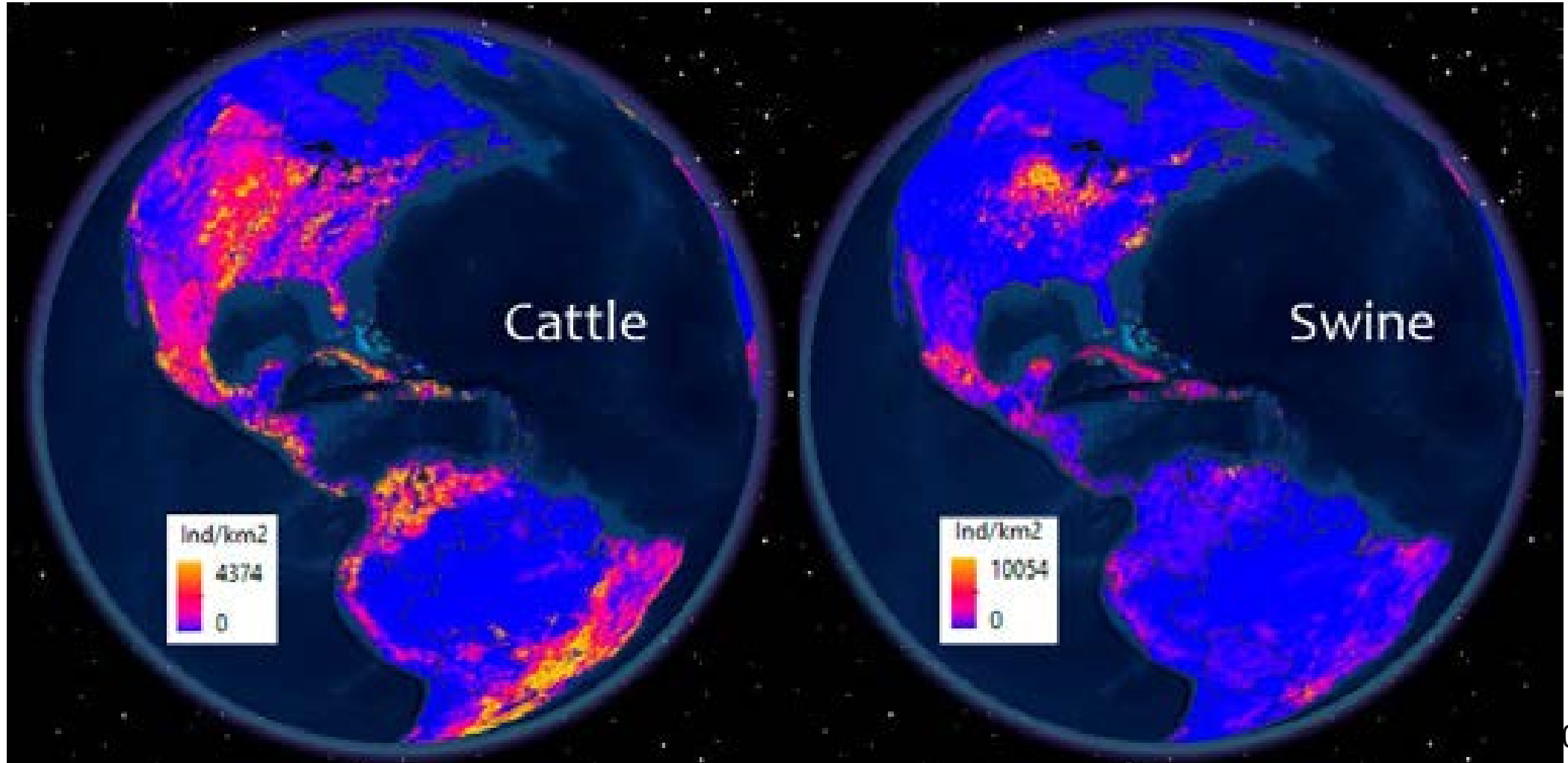
# Transboundary animal diseases (Global data repositories)

Gustavo Machado














# Gridded livestock of the world

## Harvard dataverse

[https://dataverse.harvard.edu/dataverse/glw\\_3](https://dataverse.harvard.edu/dataverse/glw_3)



# Gridded livestock of the world

Dataverse		
	 <b>5_Sh_2010_Da.tif</b> TIFF Image - 20.0 MB - Aug 23, 2018 - 176 Downloads MD5: f15da29e8d3276d63fb97e4de3dfad7 GIS file of the dasymetric product, (absolute number of animals per pixel; 4320 by 2160 pixels of 0.083333 decimal degrees resolution)	
	 <b>6_Sh_2010_Aw.tif</b> TIFF Image - 10.7 MB - Aug 23, 2018 - 124 Downloads MD5: 5ce1c333aba0fe3b967e4c6a6446064a GIS file of the areal-weighted product, (absolute number of animals per pixel; 4320 by 2160 pixels of 0.083333 decimal degrees resolution)	
	 <b>7_Sh_2010_Ps.tif</b> TIFF Image - 2.1 MB - Aug 23, 2018 - 83 Downloads MD5: 4683b2bdb33e3fc4efbc1148d5509d24 GIS file of the areal-weighted prediction status (1: from predictions, 0: from observed census; 4320 by 2160 pixels of 0.083333 decimal degrees resolution)	
	 <b>8_Areakm.tif</b> TIFF Image - 1.9 MB - Aug 23, 2018 - 91 Downloads MD5: 6959c8fb4049f382f9491896bc520693 GIS file of the area per pixel (square km; 4320 by 2160 pixels of 0.083333 decimal degrees resolution)	
		

# World organization for animal health (FAO)

**WORLD ORGANISATION FOR ANIMAL HEALTH**  
*Protecting animals, preserving our future*

Font size: - AA + Language : | [Français](#) [English](#) [Español](#)

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[Home](#) > [Animal health in the World](#)

### Animal health in the World

- > Information on aquatic and terrestrial animal diseases
- > OIE-Listed diseases 2019
- > Overview
- > Technical disease cards
- > The World Animal Health Information System
- > WAHIS-Wild interface
- > World Animal Health
- > The OIE-WAHIS project
- > Official disease status
- > Self-declared disease status
- > Avian Influenza Portal

### WAHIS portal: Animal Health Data

To enable free access to world animal health data, the OIE provides Internet users with several computer tools designed to answer specific user needs. This portal provides easy access to these tools, for more accurate results while searching for world animal health information.

Guaranteeing transparency of the world animal health situation is one of the primary missions of the OIE. OIE Member Countries have an obligation to submit information on their animal health situation, and a [list of terrestrial and aquatic animal diseases notifiable to the OIE](#) has been established for that purpose.

To fulfil this mandate, the OIE regularly adapts the information technology tools of the World Animal Health Information System (WAHIS) which comprises three essential elements:

1. An **early warning system** for the immediate management of alert notices for OIE-listed diseases and emerging diseases.
2. A **monitoring system** to manage six-monthly information updates on all OIE-listed diseases.
3. **Further information** provided by National Authorities through annual reports on animal diseases affecting human populations: animal populations and Veterinary Service capacities, such as personnel, laboratory capacity and vaccine production.

> More information:  
[+ WAHIS Film](#)



[+ OIE Fact sheet on World information on animal diseases](#)



- > WAHIS Interface 
- > Online bookshop 
- > For the media 
- > OIE world conferences 
- > Documentary database 

# World organization for animal health (FAO)

## Animal health in the World

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1. [WAHIS-wild interface](#). This interface refers only to wild animal diseases that are **not OIE-listed** and its contents should not have any impact on international trade of animals and their products.
2. [OIE-WAHIS project](#). Is an interface designed to report animal health situation (Is still under construction).
3. [World Animal Health](#). Its aim of this interface is to present an annual synthesis of the animal health situation worldwide.

# Global animal disease information system Empress-i



<https://empres-i.apps.fao.org/>

**EMPRES-i**  
Global Animal Disease Information System

[My EMPRES-i](#) [RSS FEEDS](#) [USER MANUAL](#)

EMPRES-i Global Animal Disease Information System (EMPRES-i) is a web-based application that has been designed to support veterinary services by facilitating the organization and access to regional and global disease information. Timely and reliable disease information enhances early warning and response to transboundary and high impact animal diseases, including emergent zoonoses, and supports prevention, improved management and progressive approach to control.

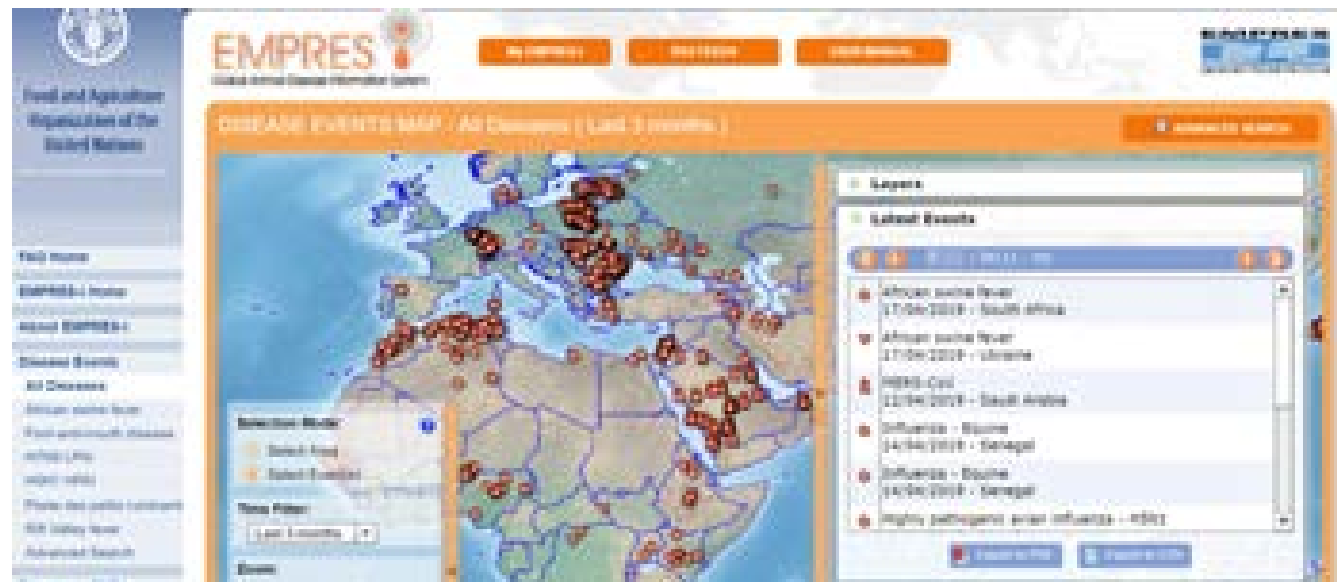
**DISEASE EVENTS** ▶

EMPRES-i provides up to date information on the global animal disease distribution and current threats at national, regional and global level. Disease Events can be

[FAO Home](#)  
[EMPRES-i Home](#)

# Disease events tracking and data exploration

1. Open empres (Activate flash player)
2. Go to [Disease events](#)
3. Check the list of diseases and if your disease is not in the list, go to [advanced search](#).



# Disease events tracking and data exploration

The screenshot displays the 'Diseases Events' web application interface. It features a top navigation bar with the title 'Diseases Events' and a search icon. Below the navigation bar is a 'Search Criteria' section with six panels:

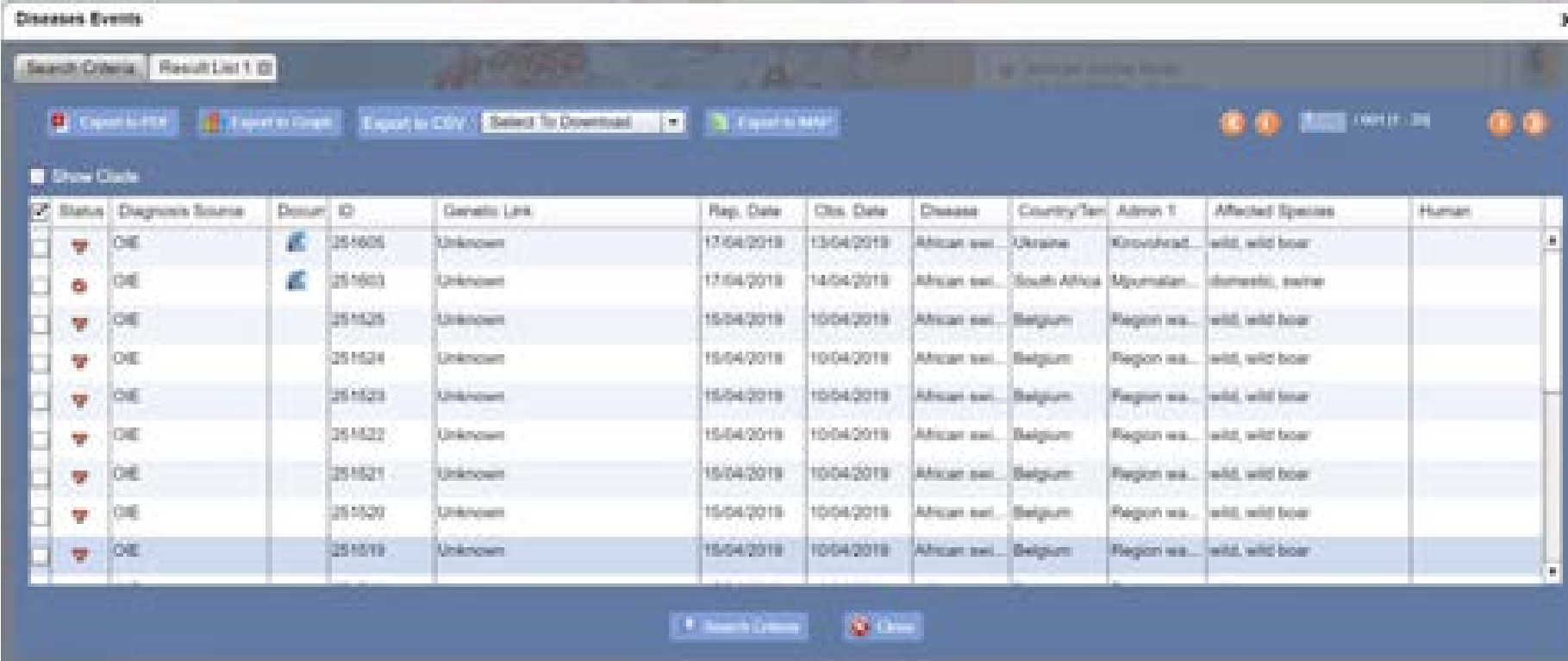
- DATES:** Includes 'Observation From' and 'Reporting From' date pickers, each with a 'To' date picker.
- CASE INFO:** Includes 'Disease Event ID' (text input), 'Disease Event Status' (dropdown menu), and 'Diagnostic Source' (text input with a search icon).
- GENETIC INFORMATION FOR INFLUENZA VIRUSES:** Includes 'Genetic Link Status' with checkboxes for 'Validated link', 'Proposed link', 'Advised', and 'Unknown'.
- DISEASE LIST:** Includes a search bar and a list of diseases with checkboxes. Visible items are 'African horse sickness' and 'African swine fever'.
- ADMINISTRATIVE UNITS:** Includes a search bar and a list of administrative units with checkboxes. Visible items are 'Europe' and 'Oceania'.
- ANIMALS AFFECTED:** Includes a search bar and a list of animal types with checkboxes. Visible items are 'Domestic' and 'Wild'.

At the bottom of the interface, there are buttons for 'First', 'Last', 'Clear', and 'Order By', followed by a dropdown menu set to 'ID Event' and a 'Done' button.

- Choose a disease from the list
- Select all geographic regions
- Select the hosts where the cases have been recorded



# Disease events tracking and data exploration

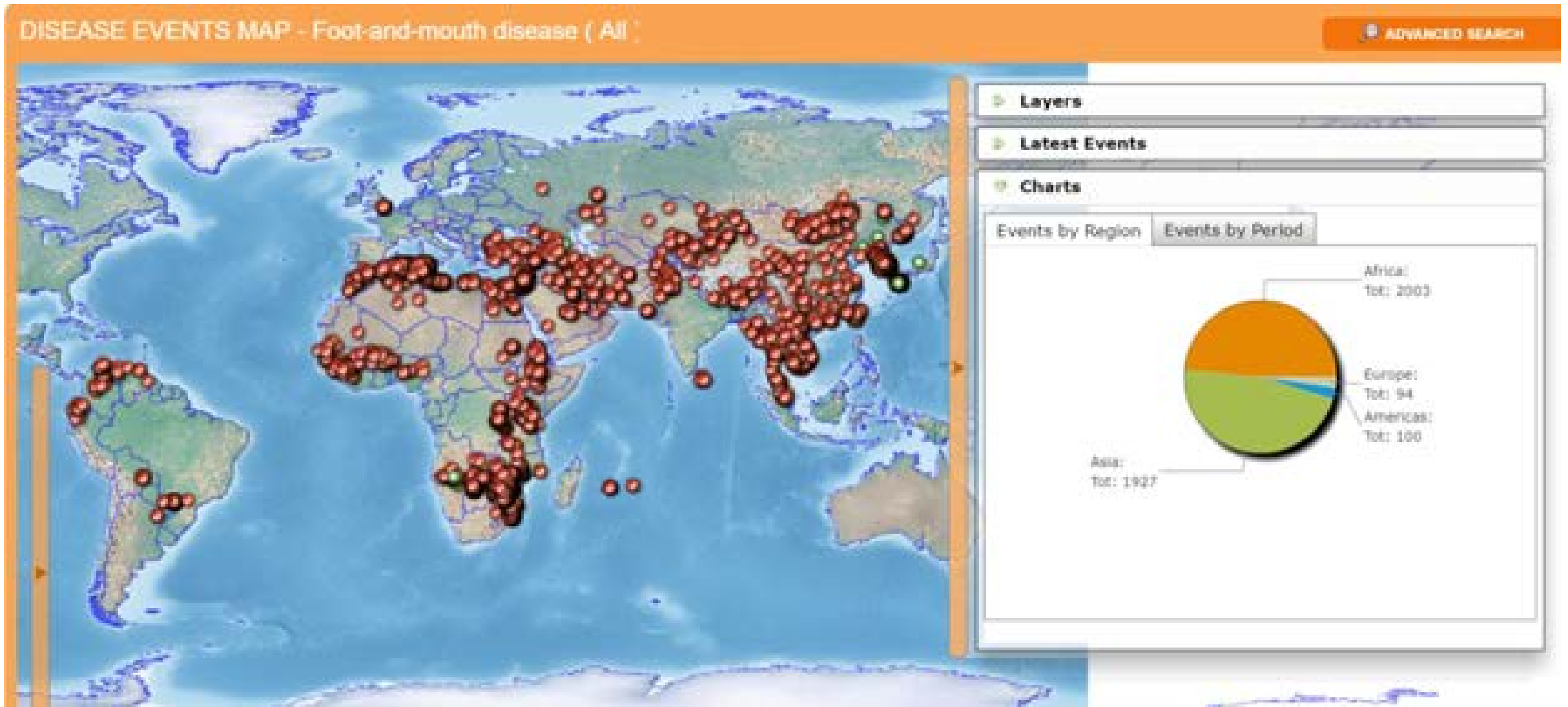


The screenshot displays a web application titled "Disease Events". It features a search bar at the top with "Search Criteria" and "Result List 1" buttons. Below the search bar are several export options: "Export to PDF", "Export to Excel", "Export to CSV", "Select To Download", and "Export to Map". A "Show Details" checkbox is also present. The main data is presented in a table with the following columns: Status, Diagnostic Source, Disease ID, Genotype Link, Rep. Date, Obs. Date, Disease, Country/Terr, Admin 1, Affected Species, and Human. The table contains 10 rows of data, all with a status of "O/E" and a disease of "African swi...". The affected species are listed as "wild, wild boar" for most entries and "domestic, swine" for one entry in South Africa.

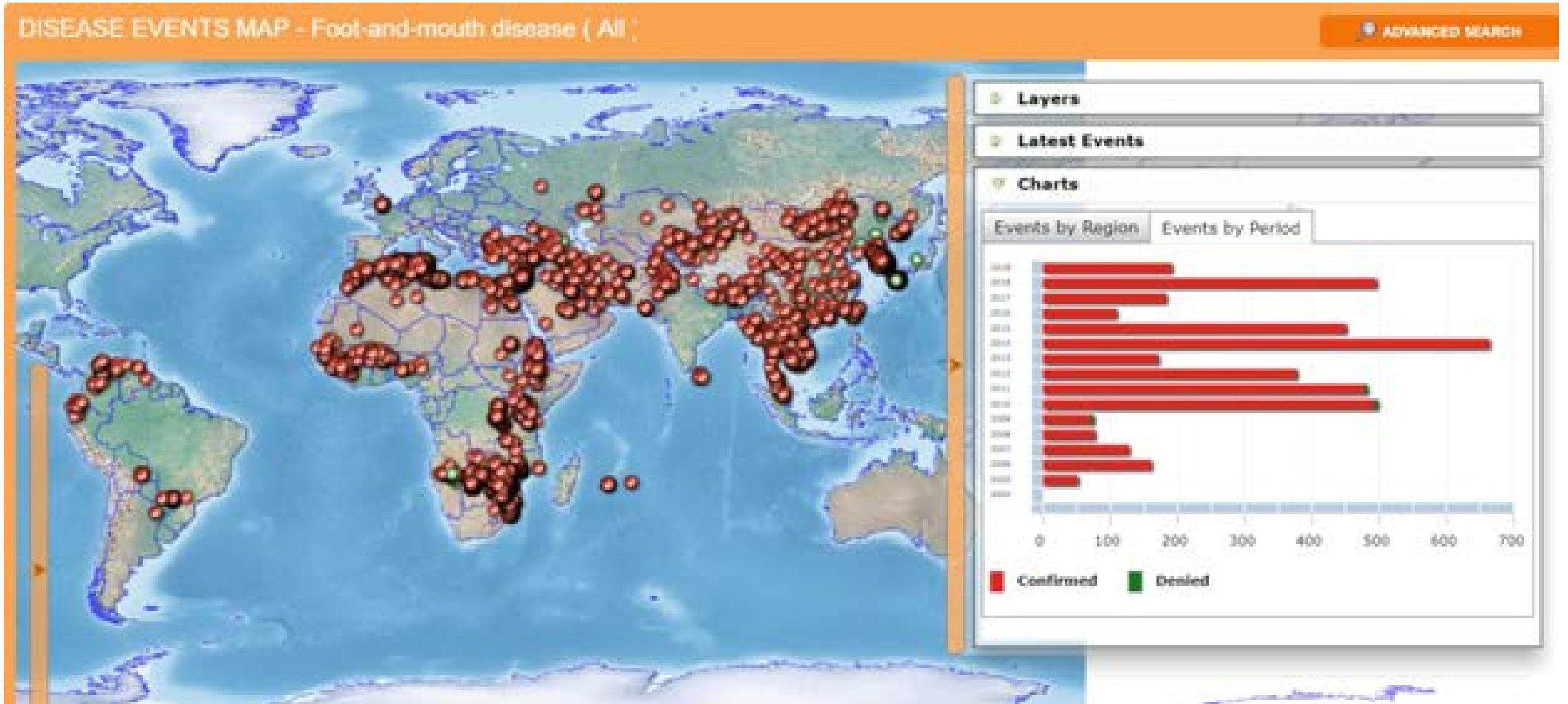
Status	Diagnostic Source	Disease ID	Genotype Link	Rep. Date	Obs. Date	Disease	Country/Terr	Admin 1	Affected Species	Human
O/E		251605	Unknown	12/04/2019	13/04/2019	African swi...	Ukraine	Kirovograd...	wild, wild boar	
O/E		251603	Unknown	12/04/2019	14/04/2019	African swi...	South Africa	Mpumutan...	domestic, swine	
O/E		251625	Unknown	15/04/2019	10/04/2019	African swi...	Belgium	Region wa...	wild, wild boar	
O/E		251624	Unknown	15/04/2019	10/04/2019	African swi...	Belgium	Region wa...	wild, wild boar	
O/E		251623	Unknown	15/04/2019	10/04/2019	African swi...	Belgium	Region wa...	wild, wild boar	
O/E		251622	Unknown	15/04/2019	10/04/2019	African swi...	Belgium	Region wa...	wild, wild boar	
O/E		251621	Unknown	15/04/2019	10/04/2019	African swi...	Belgium	Region wa...	wild, wild boar	
O/E		251620	Unknown	15/04/2019	10/04/2019	African swi...	Belgium	Region wa...	wild, wild boar	
O/E		251619	Unknown	15/04/2019	10/04/2019	African swi...	Belgium	Region wa...	wild, wild boar	

- Export as a csv file
- Download all parts separately (maximum files per file =5,000)

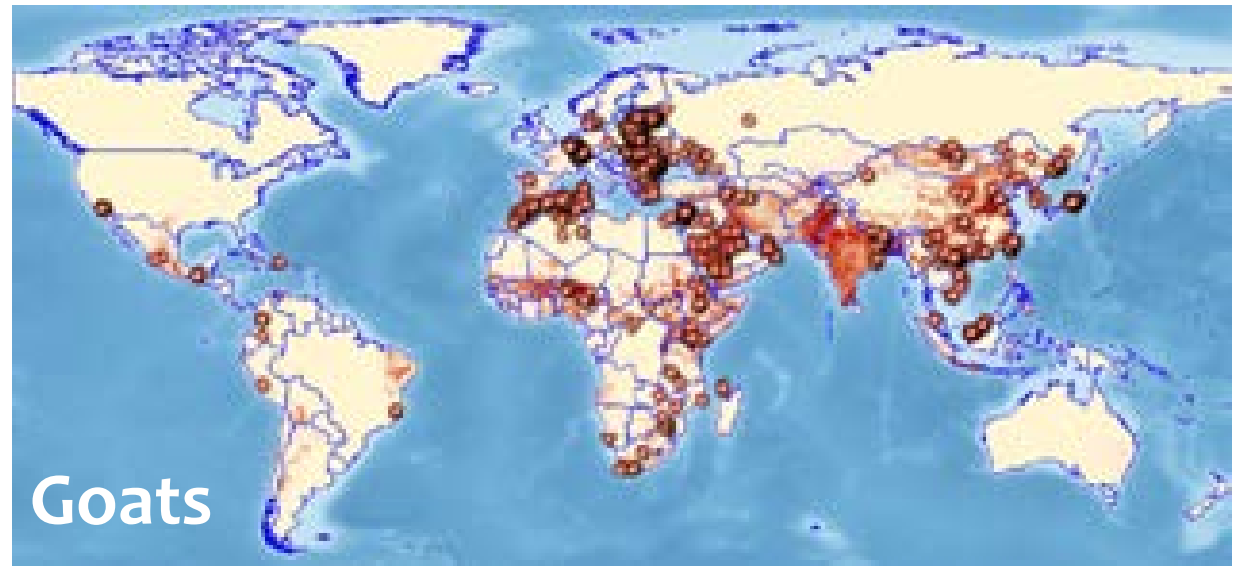
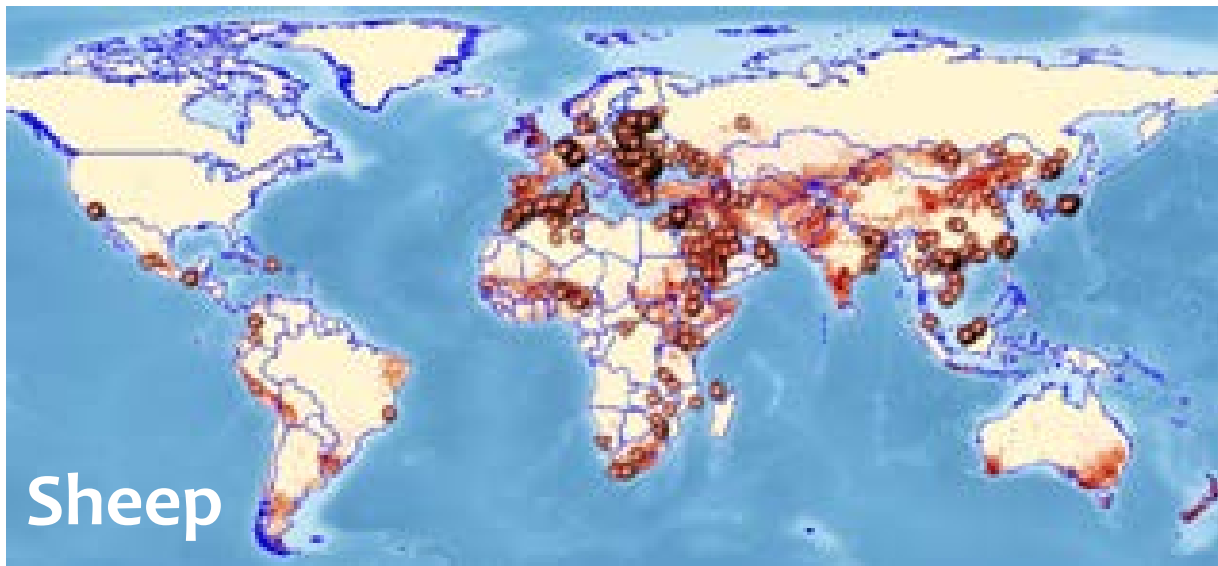
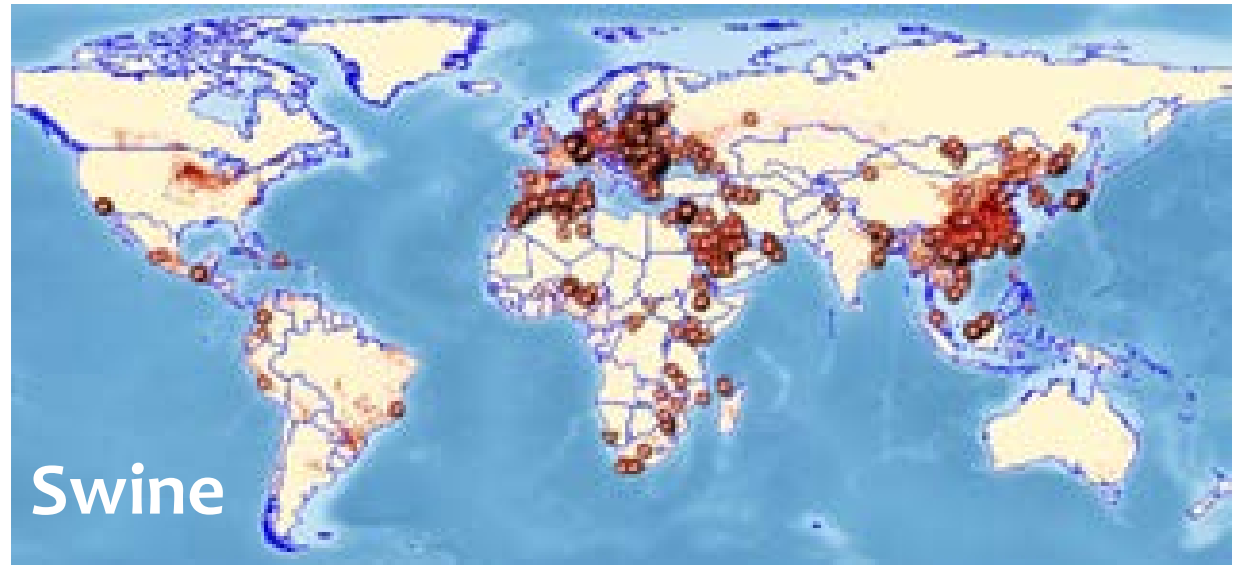
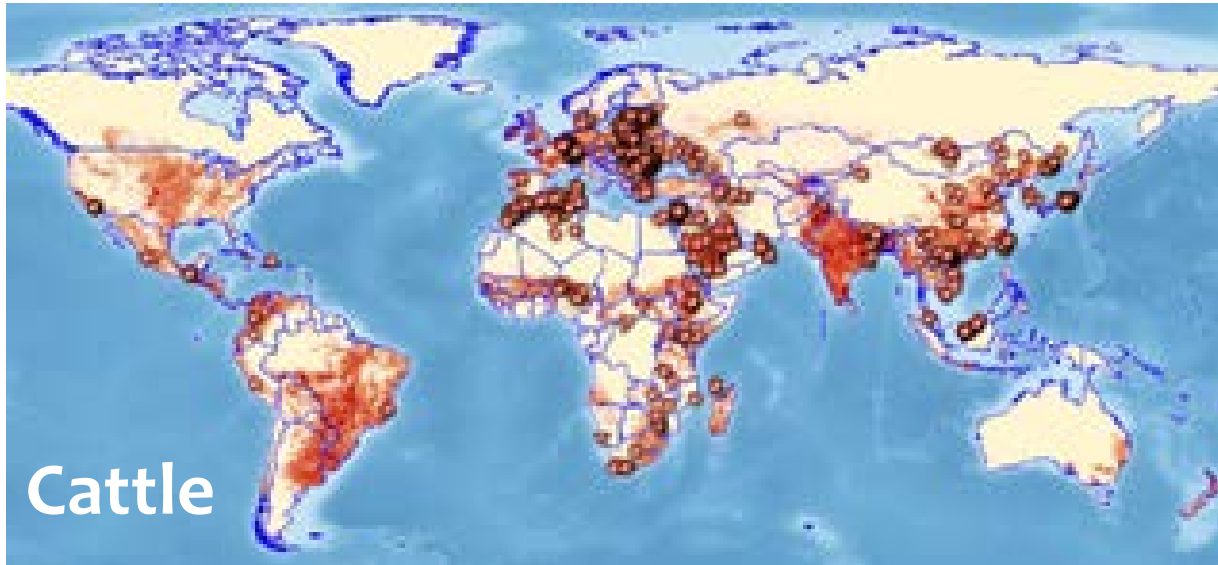
# Disease events tracking and data exploration



# Disease events tracking and data exploration



# Other utilities



# Export data

Open the csv file and add all the downloaded files in just one file and rename it.

	A	B	C	D	E	F	G	H	I	J	K
1	Id	source	latitude	longitude	region	country	observation	report	status	serotypes	speciesDescription
2	250063	OIE	42.44	83.26	Asia	China	17/03/2019	27/03/2019	Confirmed	O	domestic, cattle
3	249945	OIE	42.44	83.26	Asia	China	17/03/2019	27/03/2019	Confirmed	O	domestic, cattle
4	249426	OIE	34.58	-4.51	Africa	Morocco	15/03/2019	22/03/2019	Confirmed	O	domestic, cattle, domestic, sheep
5	248982	OIE	50.01	118.53	Europe	Russian Federation	8/3/2019	12/3/2019	Confirmed	O	domestic, cattle, domestic, goat/sheep
6	249047	OIE	30.08	-9.47	Africa	Morocco	6/3/2019	15/03/2019	Confirmed	O	domestic, cattle, domestic, goat, domestic, sheep
7	248634	OIE	30.35	-9.29	Africa	Morocco	1/3/2019	8/3/2019	Confirmed	O	domestic, cattle, domestic, goat, domestic, sheep
8	248531	OIE	34.74	-4.31	Africa	Morocco	26/02/2019	1/3/2019	Confirmed	O	domestic, cattle, domestic, goat, domestic, sheep
9	248530	OIE	34.87	-4.21	Africa	Morocco	22/02/2019	1/3/2019	Confirmed	O	domestic, cattle, domestic, goat, domestic, sheep
10	248983	OIE	-11.55	33.82	Africa	Malawi	21/02/2019	10/3/2019	Confirmed		domestic, cattle
11	248529	OIE	30.24	-9.54	Africa	Morocco	21/02/2019	1/3/2019	Confirmed	O	domestic, cattle, domestic, goat, domestic, sheep
12	247916	OIE	34.54	-4.81	Africa	Morocco	18/02/2019	22/02/2019	Confirmed	O	domestic, cattle, domestic, goat, domestic, sheep
13	247950	OIE	43.95	119.02	Asia	China	13/02/2019	22/02/2019	Confirmed	O	domestic, cattle
14	247660	OIE	45.48	133.43	Europe	Russian Federation	12/2/2019	15/02/2019	Confirmed	O	domestic, swine
15	247347	OIE	45.48	133.43	Europe	Russian Federation	12/2/2019	15/02/2019	Confirmed	O	domestic, swine
16	248981	OIE	35.05	9.44	Africa	Tunisia	10/2/2019	14/03/2019	Confirmed	O	domestic, cattle, domestic, sheep
17	247659	OIE	33.90	-4.94	Africa	Morocco	8/2/2019	15/02/2019	Confirmed	O	domestic, cattle, domestic, sheep

Outbreak list904485916698358650