



It began in the great Rift Valley...



- 1910-1912: Disease first reported in Kenya
- 1931: Virus first described (Daubney, Hudson, Graham)
1944 Detected in Semliki forest, Uganda
- 1950-1951: Outbreak in South Africa
- Zimbabwe, Zambia, Sudan
- 1976: Outbreak in RSA, human cases



...and continued

- 1977: Outbreak in Egypt
 - persistence, enzootic cycle with occasional outbreaks
- 1979: reported in Madagascar
- 1987: Mauretania, Senegal
- 1997-1998: Large outbreaks in Kenya, Somalia, Tanzania
- 1999: Large outbreak in South Africa
- 2000: Outbreaks in Saudi Arabia & Yemen
 - 14% mortality (200 people)
 - no further outbreaks, persistence?
- Oct 2011 Zimbabwe → France



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Large outbreaks

- Egypt 1977-78
 - ≈300 000 people sick, 600 dead
 - abortions, neonatal mortality among ruminants
- East Africa 1997-98
 - 300 human deaths
- RSA 1999
- Horn of Africa 2006
- RSA 2010
 - >180 human cases
 - 18 deaths



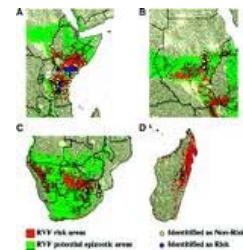
Human disease

- highly fatal hemorrhagic syndrome 1-2% → 10%

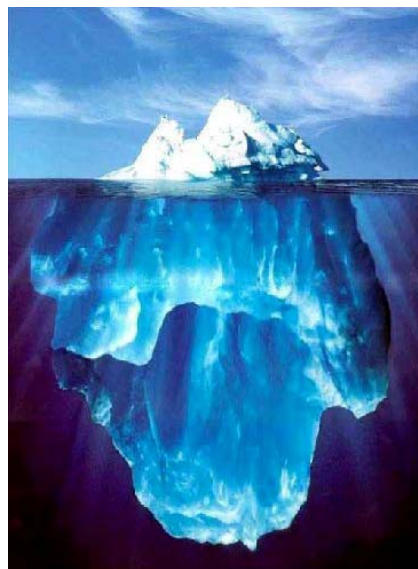
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Scientific advances

- Vaccine, vaccination
- Meteorological data → early warning
- Diagnostics

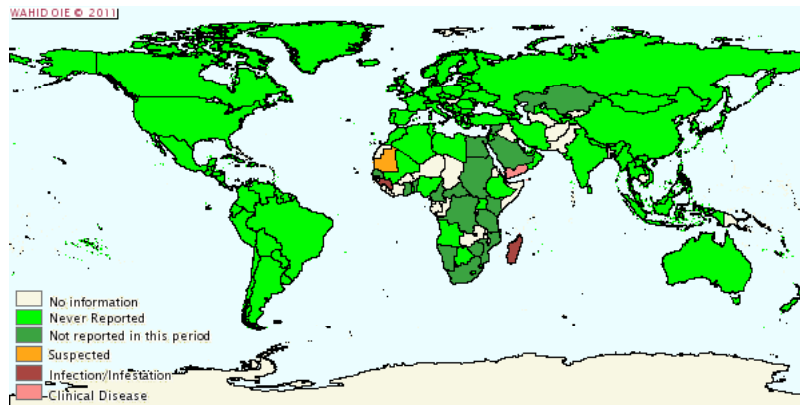


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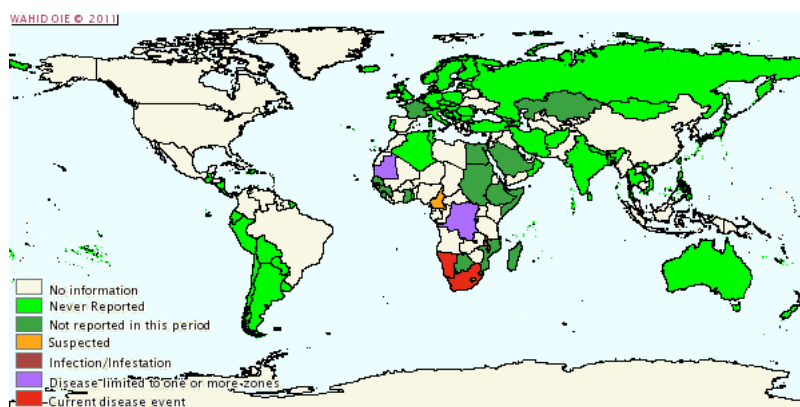


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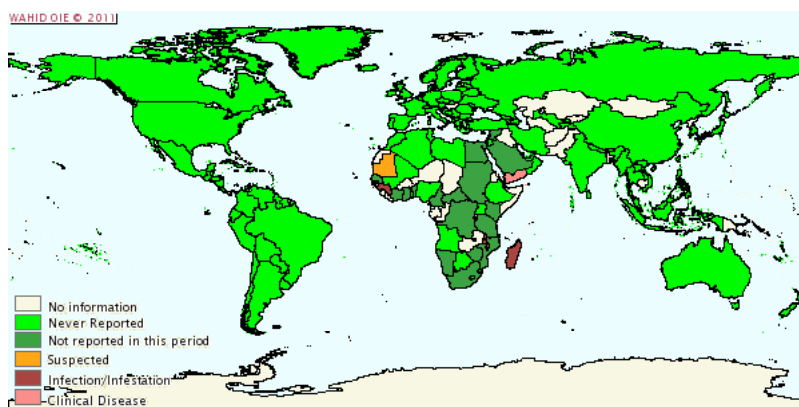
Jan-jun 2005



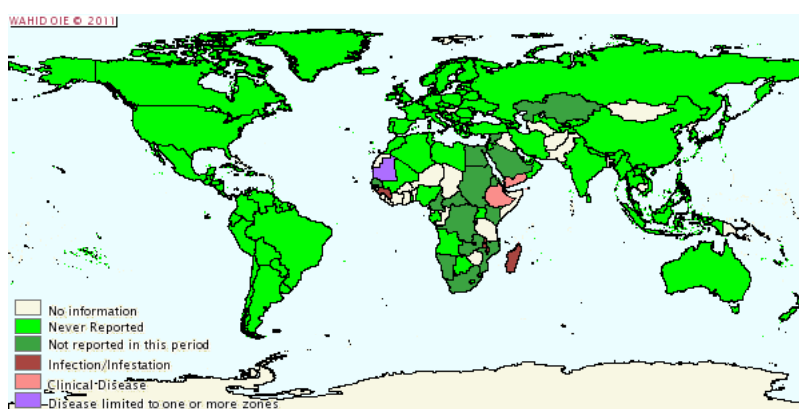
Jul-dec 2005



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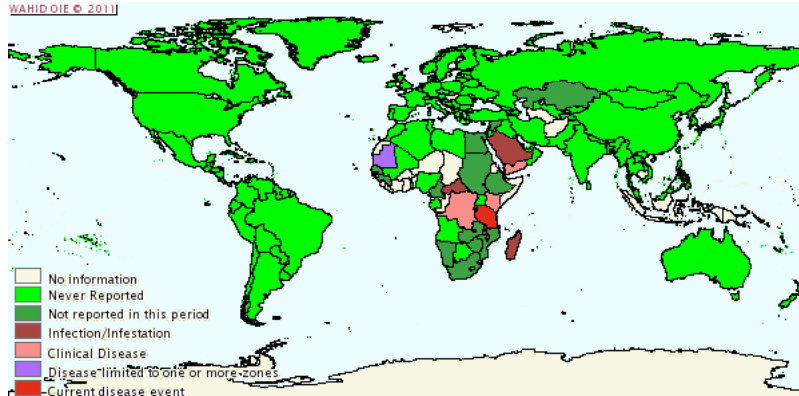


Jul-dec 2006



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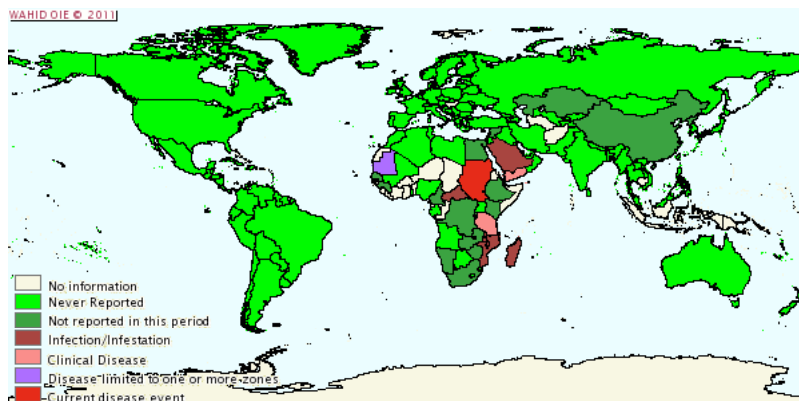
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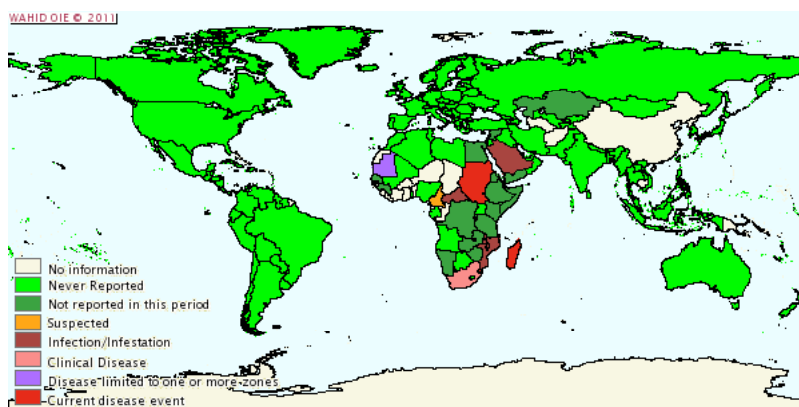
Jul-dec 2007

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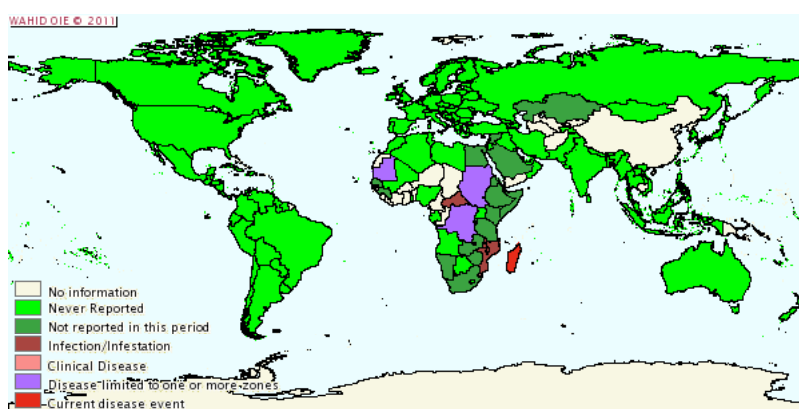


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Jan-jun 2008

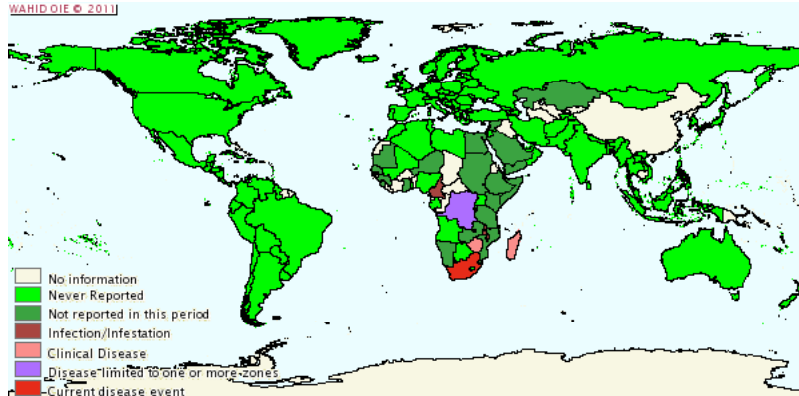


Jul-dec 2008



Jan-jun 2009

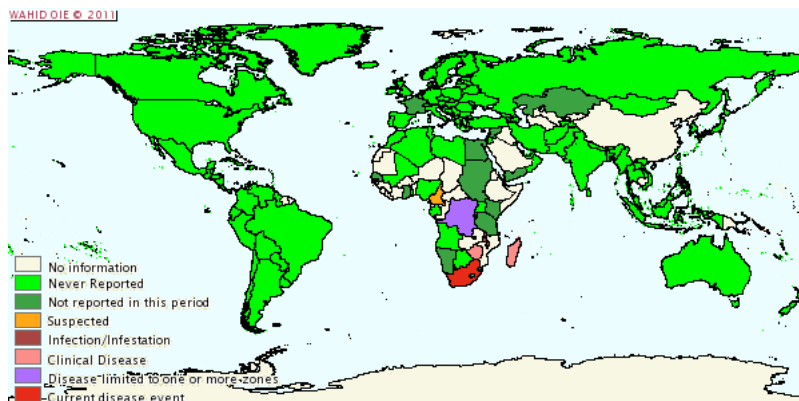
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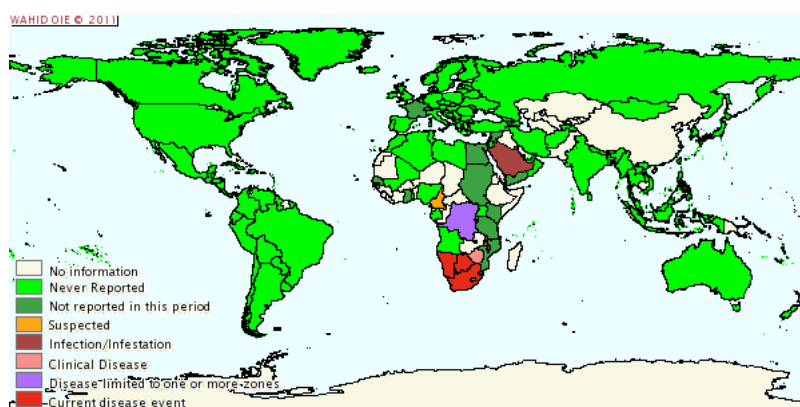
Jul-dec 2009

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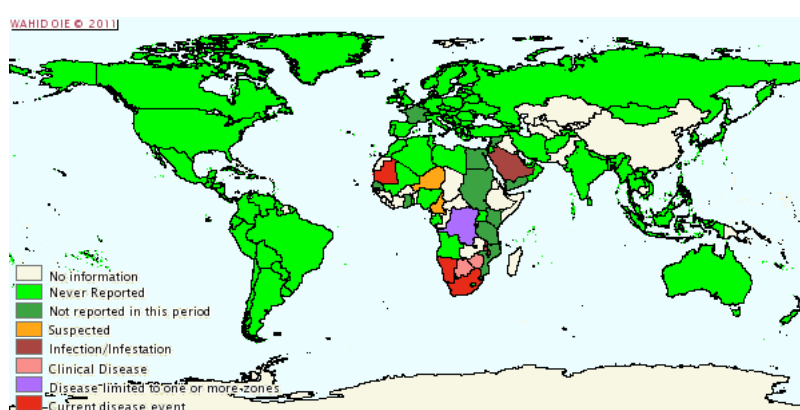


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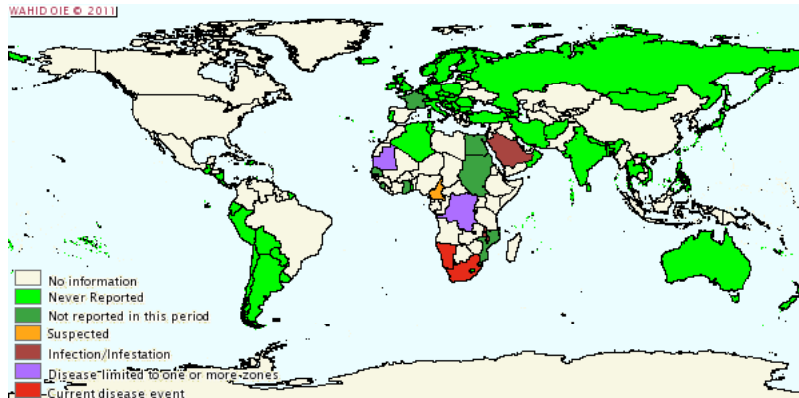


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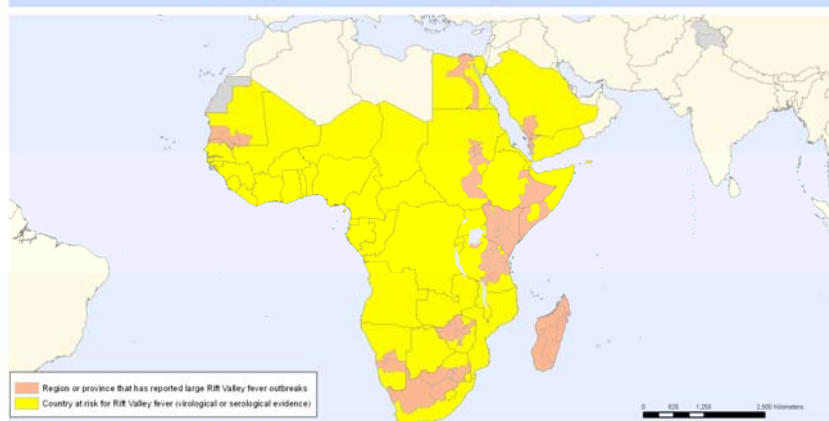


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Geographic distribution of Rift Valley fever outbreaks



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Data Source: Global Alert and Response Department
World Health Organization
Map Production: Public Health Information
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