

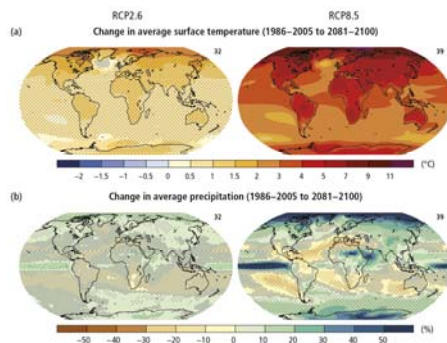
LS 2X03 - Lecture 7 – Climate Change and Infectious Diseases

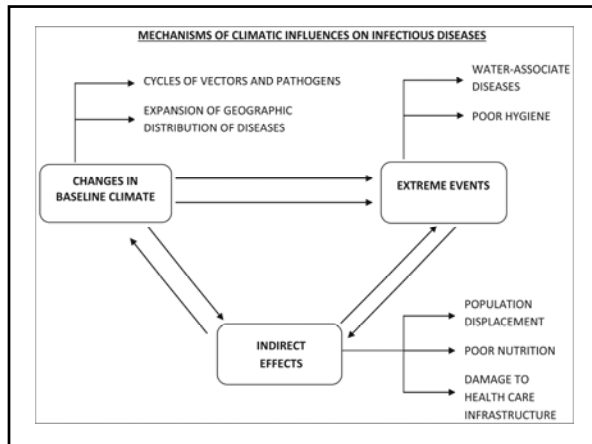
1. Infectious Diseases and the Future Climate
2. Extreme Events and Infectious Diseases
3. Vector-Borne Diseases
4. Migration and Water-Borne Diseases
5. Responses to Risks

Key Concepts

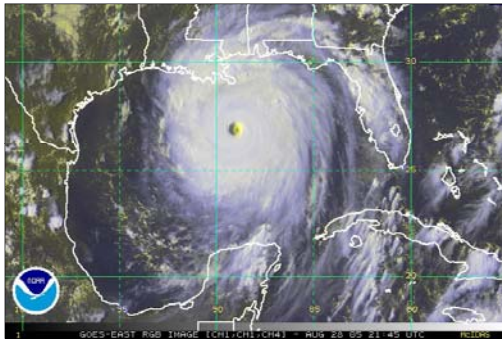
- Infectious Diseases and the Future Climate
- Extreme Events and Infectious Diseases
- Vector-Borne Diseases
- Migration and Water-Borne Diseases
- Responses to Risks

1. Infectious Diseases and the Future Climate





Hurricane Katrina, August 2005



Katrina, 2005: 12 Days After



Floods in Pakistan, 2010

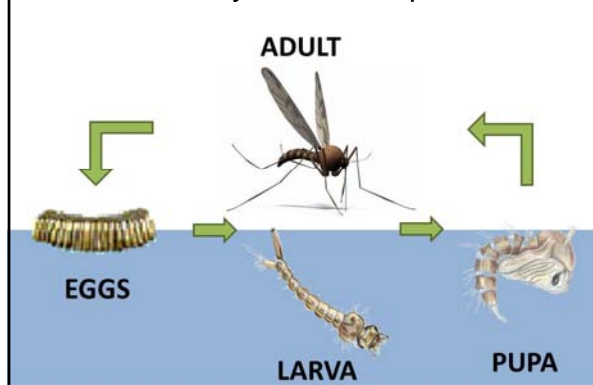
- 2,000 people died
- 3,000 were injured
- Affected people:

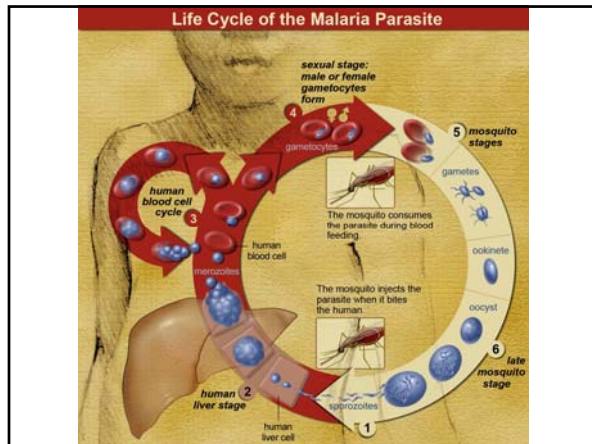


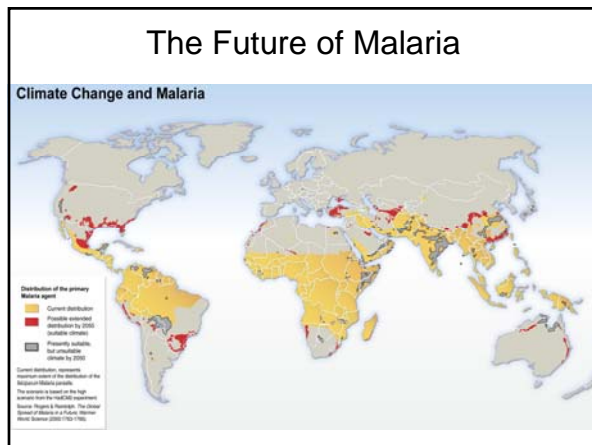
Mosquito-Borne Diseases: Long-term Impacts

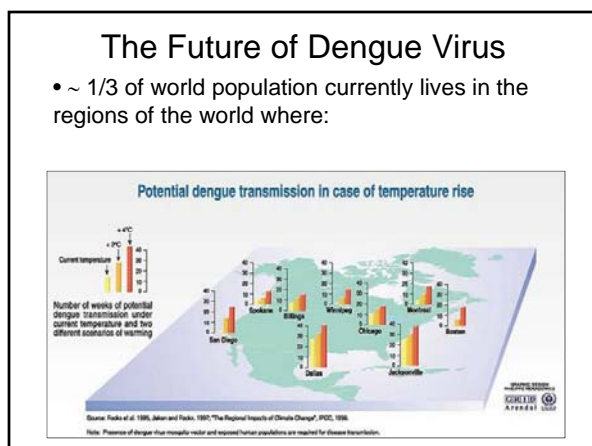


The Life Cycle of Mosquitoes











Increases in
infections related
to Seafood
Consumption

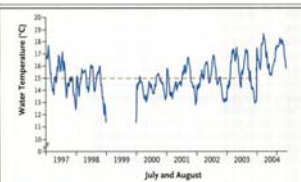
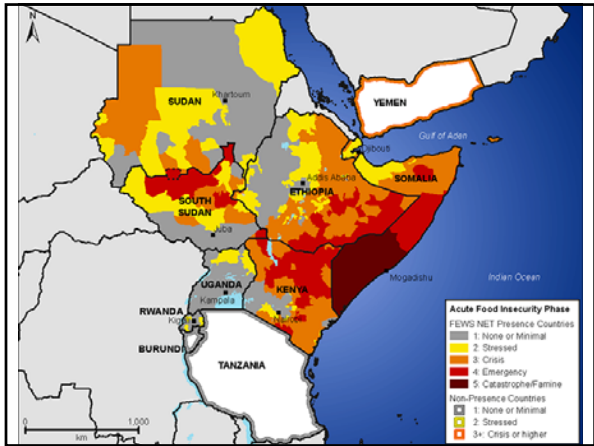
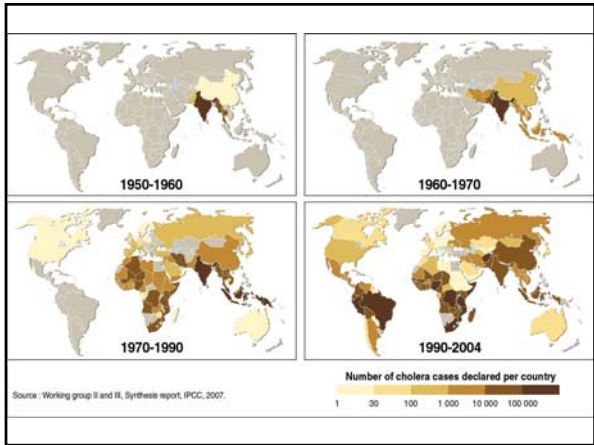
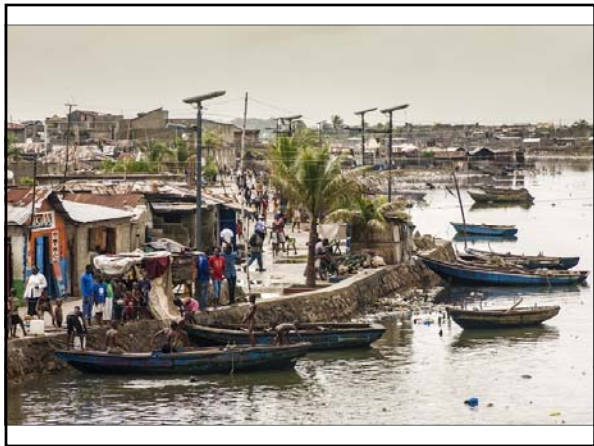


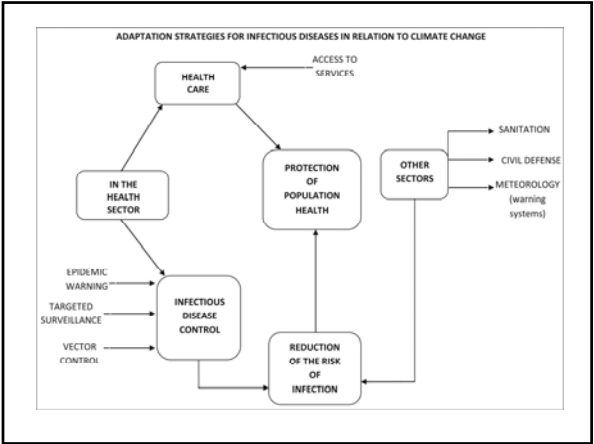
Figure 4. Mean Daily Water Temperatures in July and August at Farm A, Prince William Sound, Alaska.















End of Lecture Question

1.

Conclusion

- Climate change will lead directly and indirectly to impacts on the incidence of infectious disease, particularly after extreme events
- The distribution and ecology of vector-borne diseases is likely to be affected
- Countries with poor public health infrastructure are likely to be the most affected

TO DO!

1. For next Lecture: read Article 7

2. Tutorials next week:

- Group Discussion on News articles: what they are? How to distinguish good ones from bad ones?
- Bring Discussion Worksheet (will be posted on A2L)
