# Famine and disease in the 14<sup>th</sup> century

# Pestis, is (f)

- A deadly infectious or contagious disease
- A plague, pest or pestilence
- A noxious atmosphere, unhealthy weather

- Can also mean
  - Death
  - Destruction
  - Ruin

Pandemic = pan demos = affecting all people Modern pandemic disease:

- Wide geographic extension
- Disease movement
- High attack rates and explosiveness
- Little population immunity
- Infectiousness
- Contagiousness
- Severity

THE GREAT TRANSITION

Climate, Disease and Society in the Late-Medieval World



#### BRUCE M. S. CAMPBELL

# 3 Stages of the Great Transition

## Stage One: 1260s-1330s "precarious balance"

- Economic vulnerability
- Increasing climatic instability
- Series of famines in the early decades of the 14<sup>th</sup> century

# Stage Two: 1340s to 1370s "profound and irreversible changes"

- Cooling temperatures (colder and wetter)
- Unpredictable weather patterns
- Expanded famine
- Widespread disease

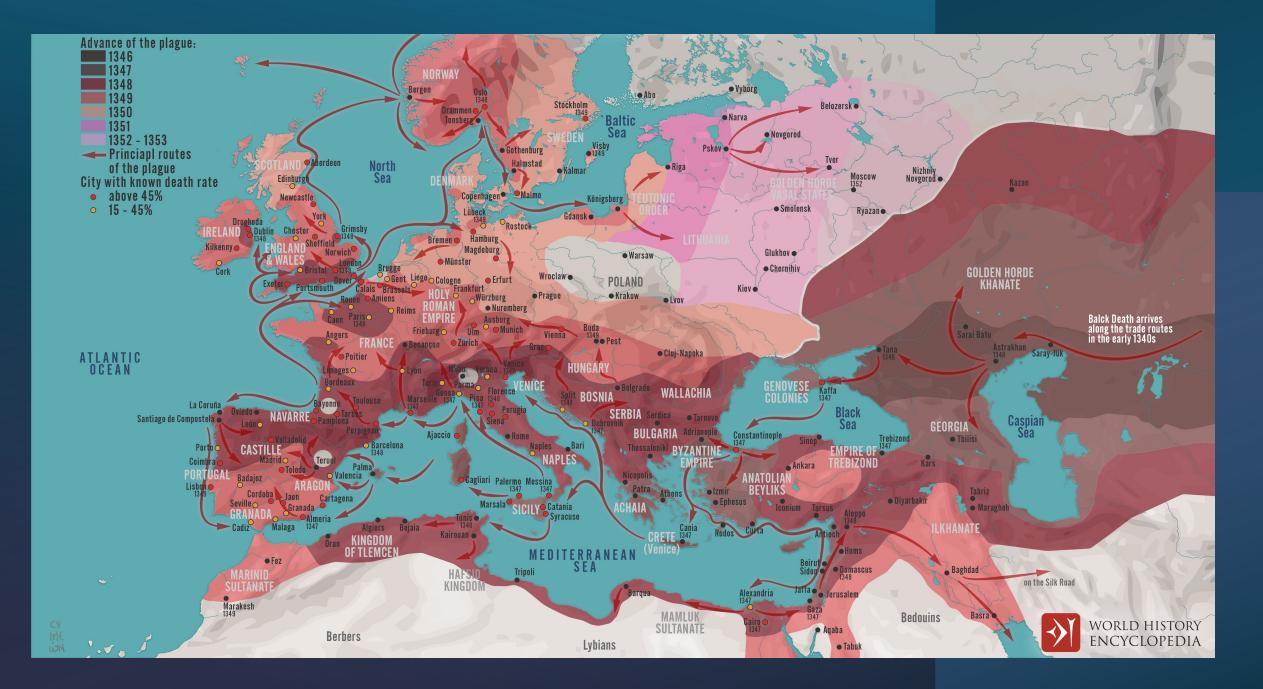
# Stage Three: 1370s-1470s "the long downturn"

- Economic and demographic contraction (initially)
- THEN economic and demographic renewal (at the end)

### In today's class...

- Focus on Stage 2: 1330s-1370s
- Geographic focus: largely Western Europe

- Relationship between climate change, famine, and disease
- Impact of the pandemic on medieval European society



# Four Horsemen of the Apocalypse

- Red horse: War
- Black horse:
  Famine/Pestilence
- Pale horse: Death
- White horse: Conquest



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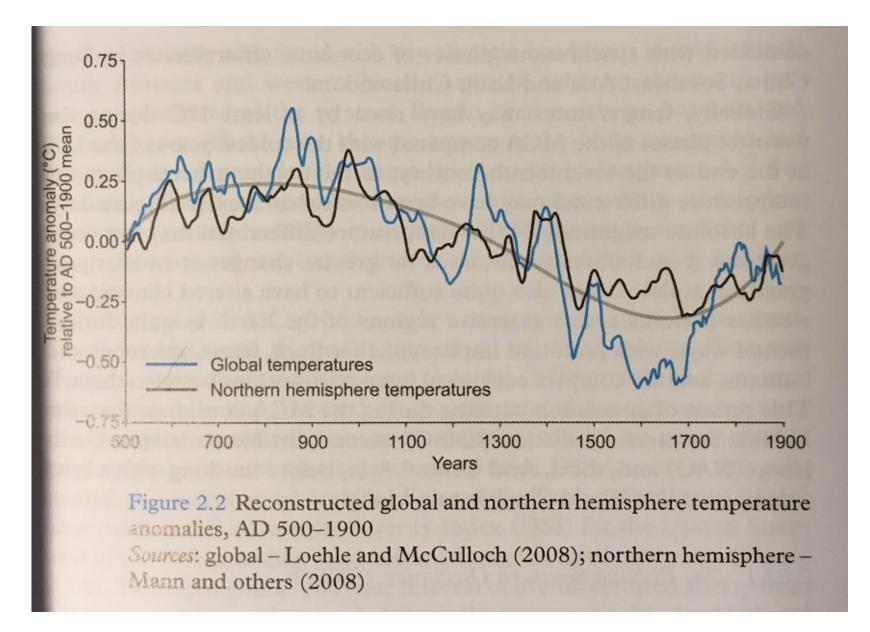
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# **Environment and Climate Change**

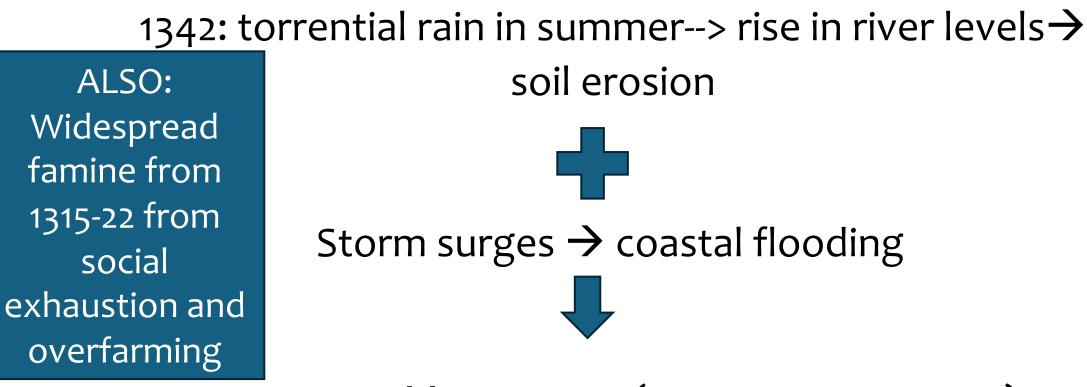
Image: from Dante's Divine Comedy (late 14<sup>th</sup> c.)



# Global Cooling

From Campbell, The Great Transition

# Destabilization in the Climate $(1340s \rightarrow)$



Ruined harvests (1346-47; 1349-51)

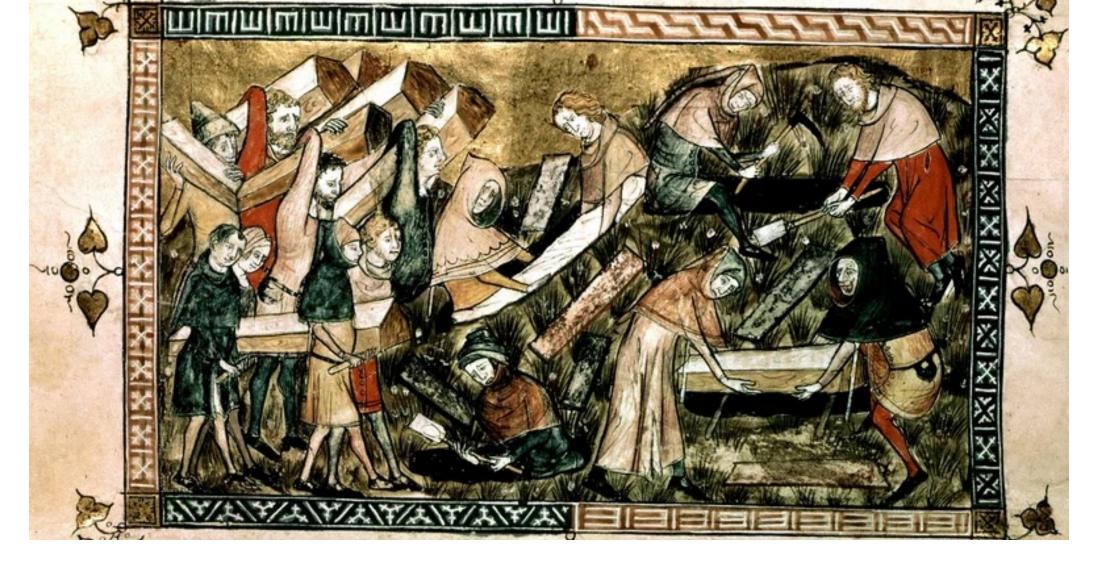
"For some time the seasons have not succeeded each other in the proper way. Last winter (1347/8) was not as cold as it should have been, with a great deal of rain; the spring windy and latterly wet. Summer was late, not as hot as it should have been and extremely wet—the weather very changeable from day to day, and hour to hour; the air often troubled, and then still again, look as if it was going to rain and then not doing so. Autumn too was very rainy and misty."

--University of Paris, Faculty of Medicine, October 1348

#### **Unsettled** weather

- July 1342 Wurzburg, Germany
  - Main river to highest levels ever
- Summer 1342 Scotland
  - Driest in 250 years



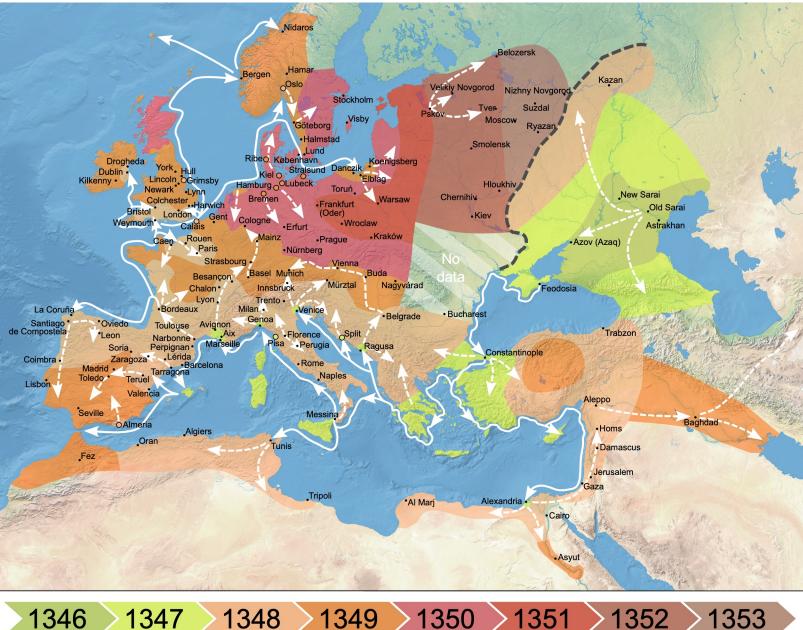


# **Disease: the Black Death**

Image: 1349, Tournai, earliest depiction of the plague

Giovanni Boccacio, The Decameron (1350) Ibn Battuta, *Travels* (before 1368)

- What perspective on the origin and spread of the Black Death do we get from these sources?
- What can they tell us about people's attempts to respond to the plague?



#### 1346 1347 1348 1349 352 350 35

Approximate border between the Principality of Kiev and the Golden Horde - passage prohibited for Christians.



Land trade routes

Maritime trade routes

1346-Arrives in Europe

1347/8-1353-First Outbreak

1360-3; 1369; 1374-75; 1382-83; 1394-95-Subsquent Outbreaks

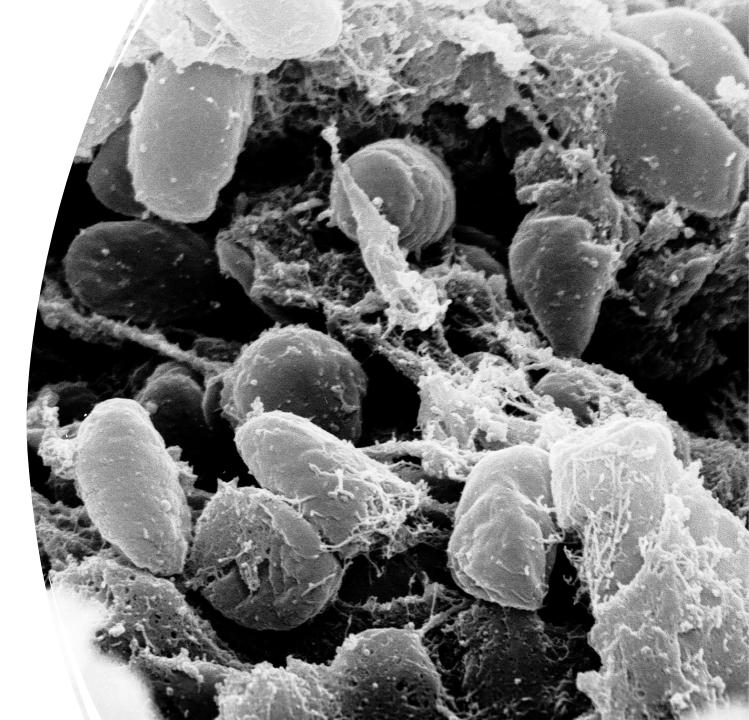
Continues for next 350 years

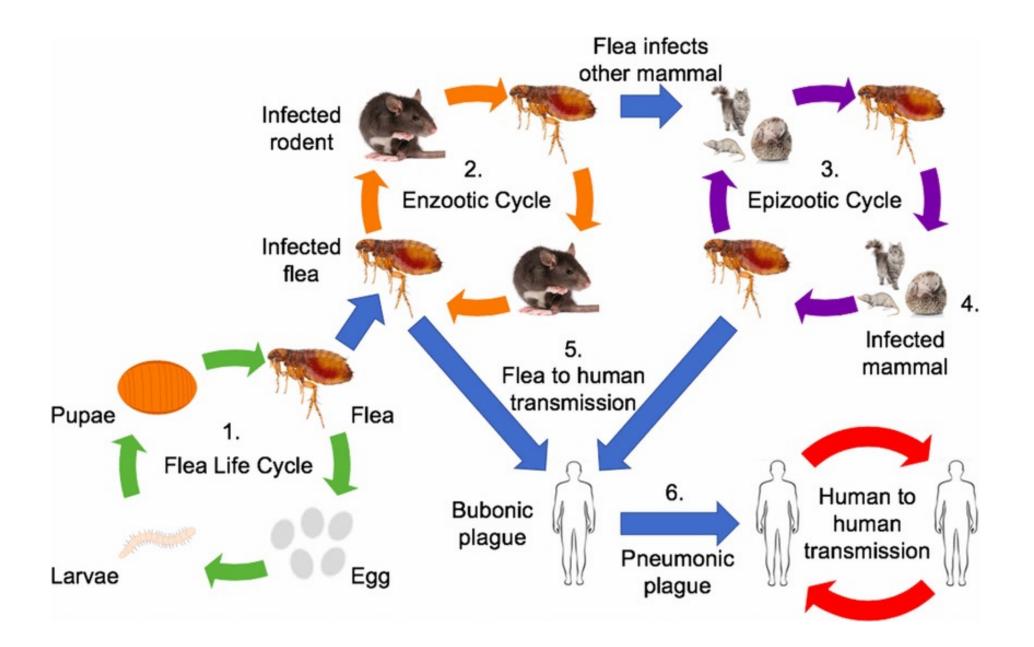
Major outbreak 1660s

"The Demographic Shadow cast by the Black Death was therefore dark and long." --Bruce Campbell, The Great Transition

### Yersinia Pestis

- 2010: dental pulp of skeletons from Italy, France, Germany, the Netherlands, and England
- Bubonic plague—attack on the lymphatic system (bubos)
- Same disease as in China in 1330s





# Impact and Consequences





Battle of Meaux, Jacquerie in Froissart's Chronicles (1358)

#### **Economic and Social**

Freezing of wages

Peasant revolts:

- France: Jacquerie in 1358
- England: Wat Tyler Rebellion 1381

Significant Contraction of the Economy



# **Medieval Plague doctor?**

- Masks to hold herbs and perfumes
- Protect from "corrupt" air
- First mention of mask→
  17<sup>th</sup> century France
- This image from 1656