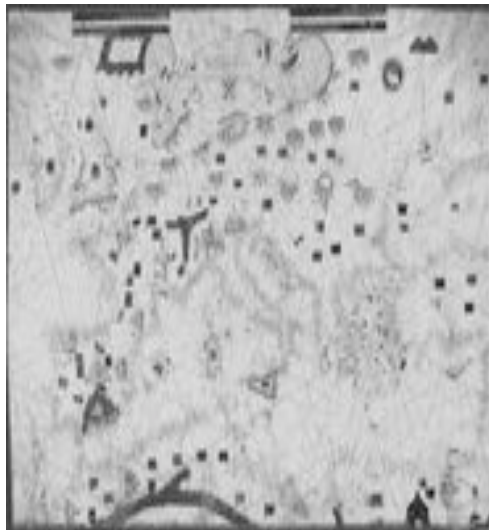


European Exploration



Technology

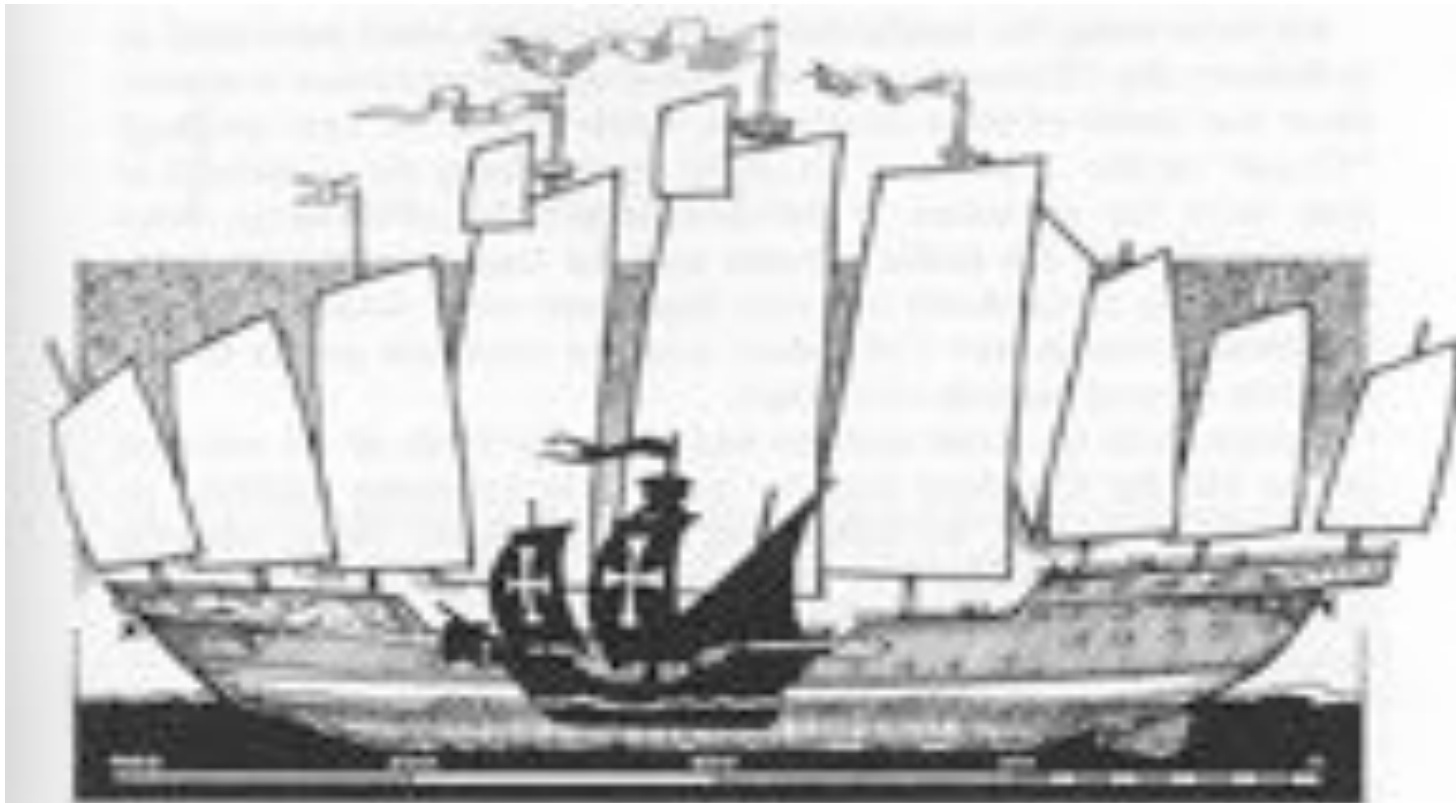
- Magnetic compass
- Sternpost rudder
- Lateen sail
- More accurate maps
- Astrolabe



European Caravel



Comparison: Ming Junk vs. European Caravel



Zheng He's treasure ship (left) and Columbus's St. Maria (right) (Illustration by Jan Adriaen, 1995)

Motivation for European Exploration

- Religion (Reconquista in Spain)

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- Trade (Goods and Wealth)
 - Silk, cotton, pepper, spices
- God, Gold, Glory

Why not China?

- Confucian scholars get the ear of the Ming emperor and turned attention inward
- China withdrawals in 1433



Portugal: Vasco Da Gama arrives in Calicut, India 1498



Change over time in the Indian Ocean trade

- Arab traders dominate at first
- India's central location allows them to excel
- China and their technology under Zheng He dominate the trade until China withdrawals
- European technology and motivation has them in control starting in 1498

Ferdinand and Isabella unite Spain behind Catholicism



Columbus



Columbian Exchange



Columbian Exchange

- The transfer of diseases, plants, animals and people from the Old World to the New World (Americas) started by Columbus

Columbian Exchange



The only domesticated beast of burden in the Americas prior to Columbus was the llama



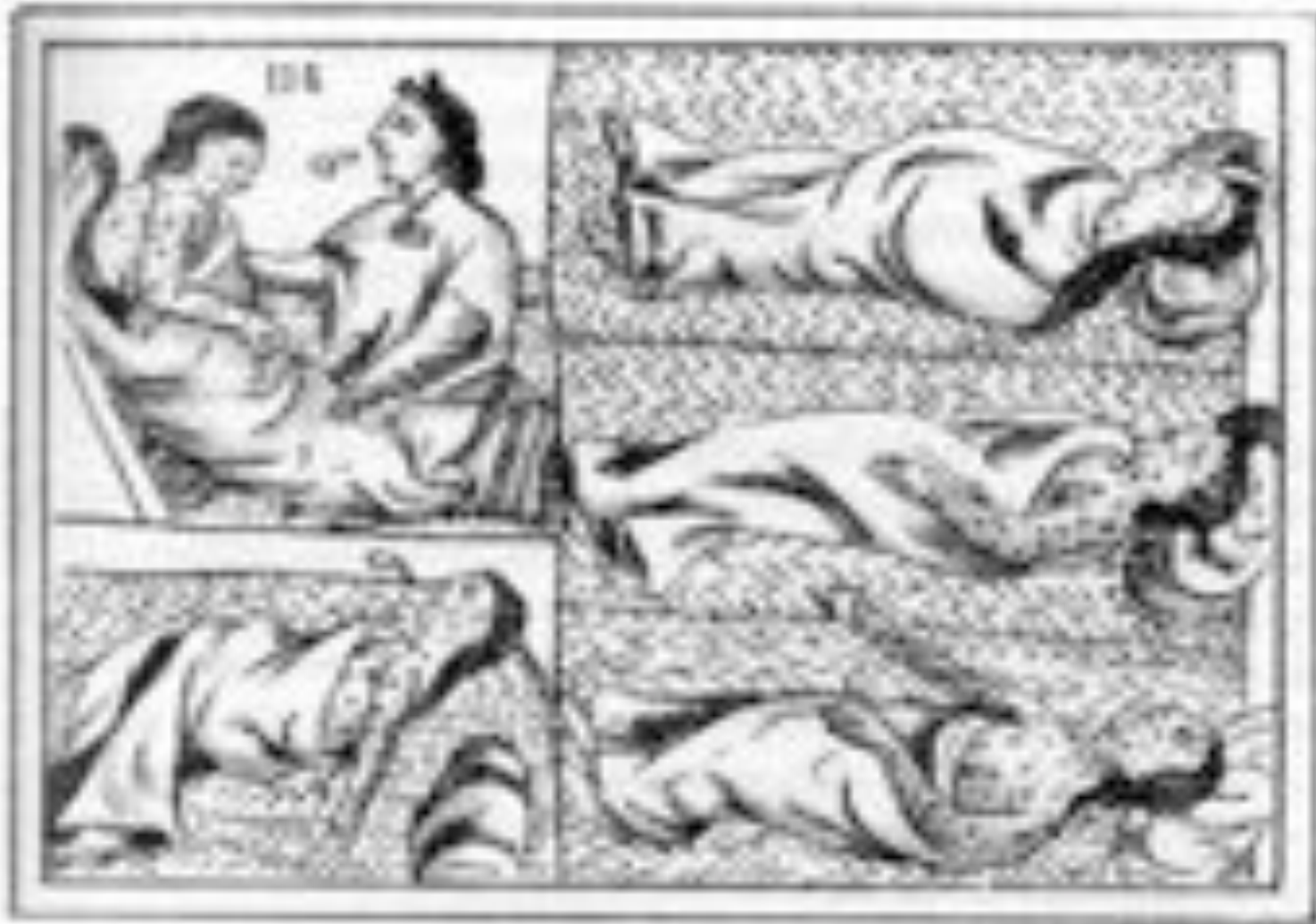
Columbian Exchange



Important note:

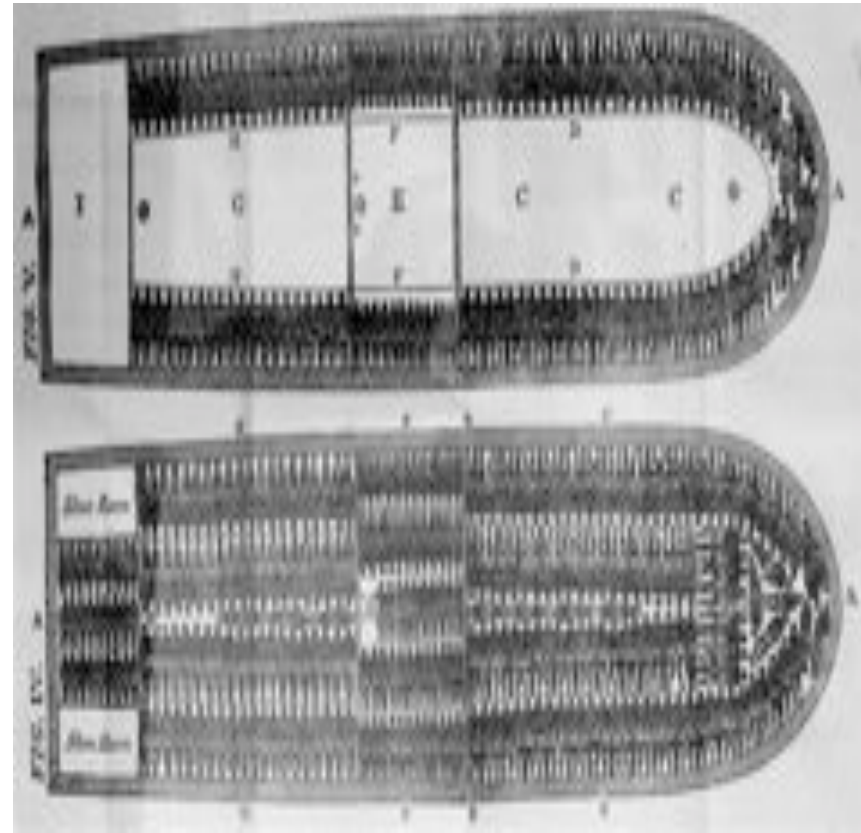
- High caloric foods from the Columbian exchange will be diffused all around the world which will be the reason for massive population increases
- Despite the slave trade in Africa, the population increases due to the foods from the Columbian exchange

Small Pox Epidemic



Labor Systems

- Indentured servitude to slavery



90% of slaves from West Africa went to Latin America



Comparison: Interaction with indigenous population

- South America more of a mixture of races (Mestizo- a mixture between European and indigenous blood)
- North America more confrontational

Spread of Christianity in the Americas



Global Flow of Silver



Potosi Silver Mine



Spanish Galleon



Manila Galleon Trade Route



Price Revolution

- Massive inflation in Spain and China due to importing large amounts of silver from the Americas

