



Chapter 13-C

Queen El & Spanish Armada

Chapter 14-A

Age of Exploration



Wayne E. Sirmon

HI 101 – Western Civilization

HI-101 Western Civilization I

Nov. 20 Art. 4 Approved (if needed)

Nov. 25 & 27 *Thanksgiving Holiday*

**Dec. 3 On-line Quiz (Ch. 14)
Review 4 (if needed)**

Dec. 11 FINAL EXAM (Ch. 13 & 14)

Chapter 13 – *Reformation & Religious Warfare*

- 1558** Queen at age 25
- 1559** “Supreme Governor of the Church of England”
- 1583** colonized N. America
- 1587** beheaded Mary, Queen of Scots (1st cousin, once removed)
- 1588** defeated Spanish Armada
- 1600** chartered East India Company
- 1603** died – age 69, reigned 45



Queen Elizabeth at Tilbury

I know I have the body of a weak and feeble woman; but I have the heart and stomach of a king — and of a King of England too, and think foul scorn that Parma or Spain, or any prince of Europe, should dare to invade the borders of my realm

The Virgin Queen

To the House of Commons (1559)

And, in the end, this shall be for me sufficient, ...that a queen, having reigned such a time, lived and died a virgin.

Chapter 13 – *Reformation & Religious Warfare*



Father – Charles V – Holy Roman Emperor
Mother - Isabella of Portugal

Wives- **Maria Manuela of Portugal** ⁽¹⁶⁾
 Mary I of England ^(while Queen)
 Elizabeth of Valois ⁽¹⁴⁾
 Anna of Austria ⁽²¹⁾

Philip II of Spain
(r. 1556-1598)

Chapter 13 – Reformation & Religious Warfare



500% inflation (4% for 44 years)

Inherited massive debt

Bankrupt 4 times between 1556 & 1596

Philip II of Spain
(r. 1556-1598)

Chapter 13 – *Reformation & Religious Warfare*



500% inflation (3.73% for 44 years)

Inherited massive debt

Bankrupt 4 times between 1556 & 1596

Philip II of Spain
(r. 1556-1598)

USA inflation
44 years (1981-2025)
365%
2.93%/year

USA national debt
1981 \$ 998,000,000,000
2025 \$ 30,629,115,020,089
3,069%

Chapter 13 – *Reformation & Religious Warfare*

1560

Holy League (Spain, Republics of Venice & Genoa, Papal States, Duchy of Savoy & Knights of Malta)

Attacks Ottoman naval force at Djerba, Tunisia.

Decisive Defeat for Spain and Holy League

1571

Holy League

**Defeats Ottoman naval
force at battle of Lepanto.**

**Ends Ottoman dominance
of Mediterranean**



Chapter 13 – *Reformation & Religious Warfare*

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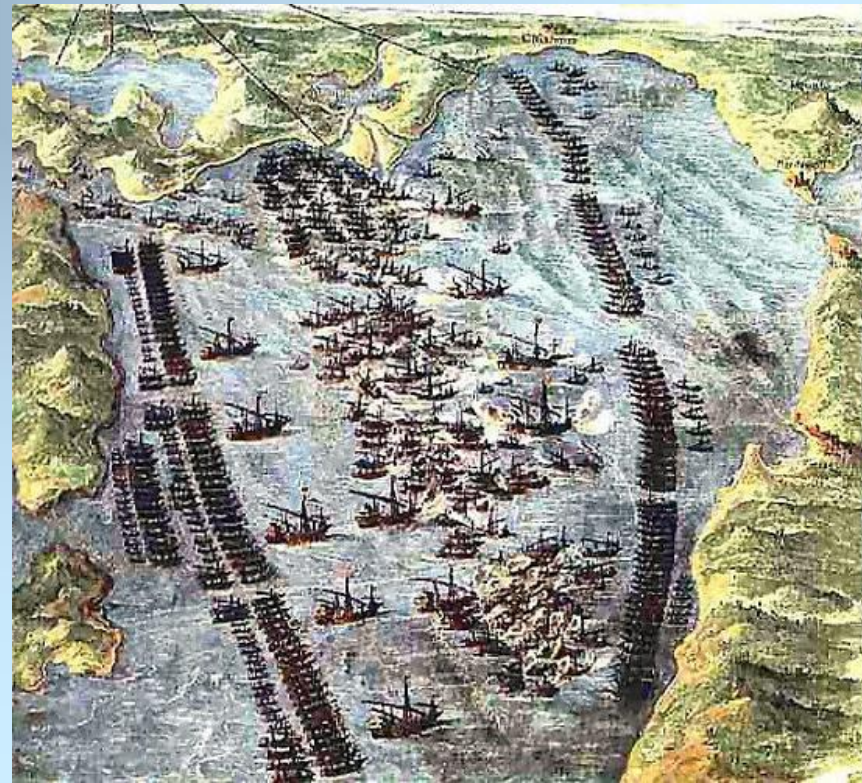
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Chapter 13 – *Reformation & Religious Warfare*

Spanish Armada -1588

“Great and Most Fortunate Navy”

*Transport 55,000 men to invade England
(30,000 already in Spanish Netherlands).*

*22 warships, 108 armed merchant ships
50% more firepower*



Chapter 13 – *Reformation & Religious Warfare*

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“Hellburners” Calais



Chapter 13 – *Reformation & Religious Warfare*

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Defeats Armada at Graveline



Chapter 13 – *Reformation & Religious Warfare*

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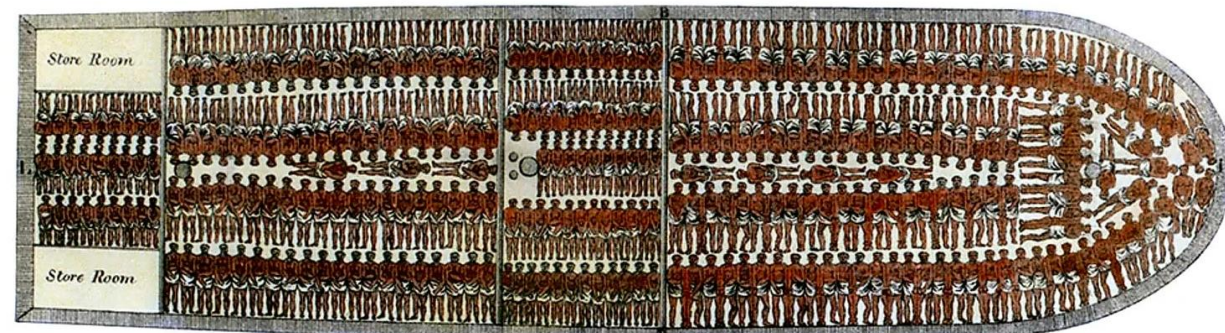
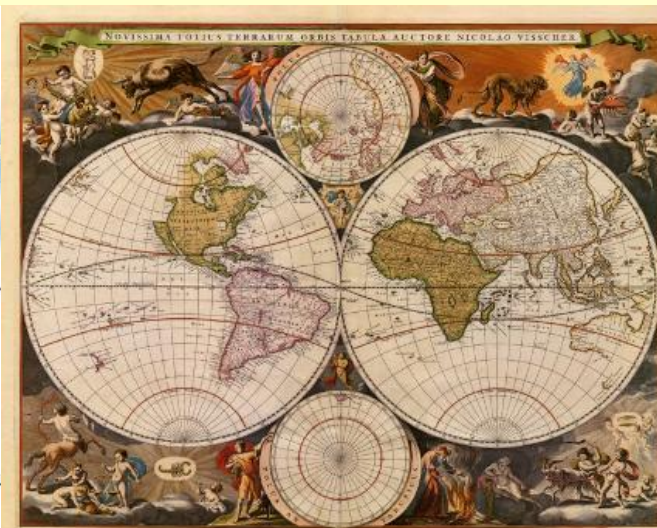
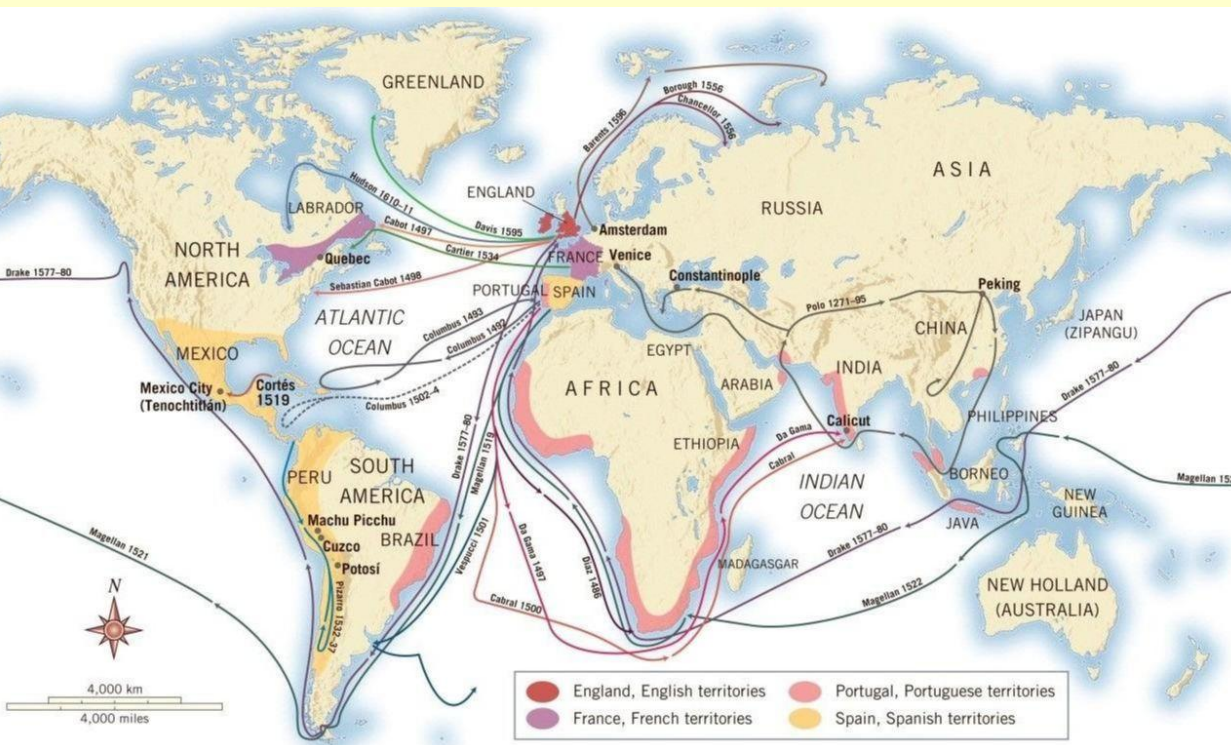


Pursues to latitude of Firth of Forth
Spanish sail north and west
(but did not know about the Gulf Stream)



Chapter 14

Europe and the World: New Encounters 1500-1800



Chapter 14 – *Europe & World New Encounters*

Why the push for a sea route to the Far East?



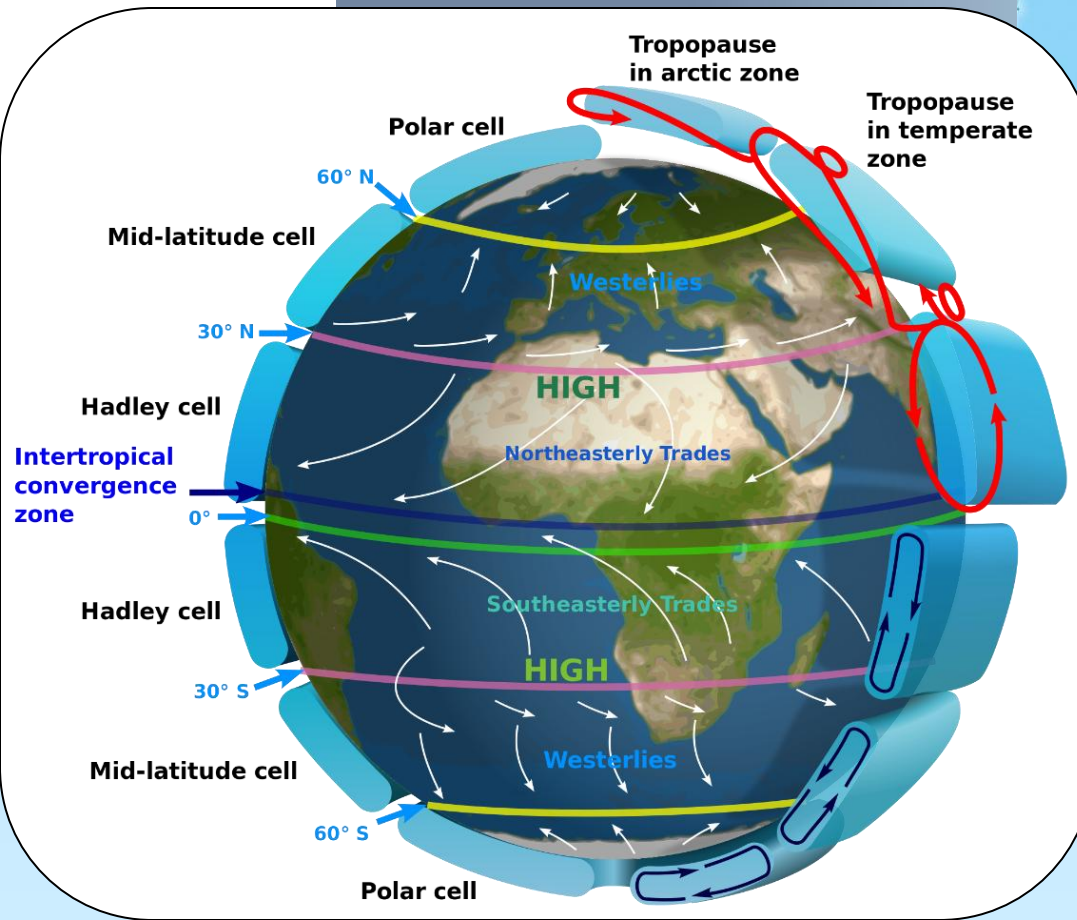
Chapter 14 – *Europe & World New Encounters*

Why was it so hard to sail around Africa?



Chapter 14 – *Europe & World New Encounters*

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Portuguese Voyages



Chapter 14 – *Europe & World New Encounters*

Advances in Technology

Firearms Manufacture

Not a factor at first,

- Cannon impressed natives
- but give it 100 years



Shipbuilding

- Galleys out, Caravel in



Navigation

- Compass, Astrolabe
- (a clock would have been nice)

Chapter 14 – *Europe & World New Encounters*

Shipbuilding

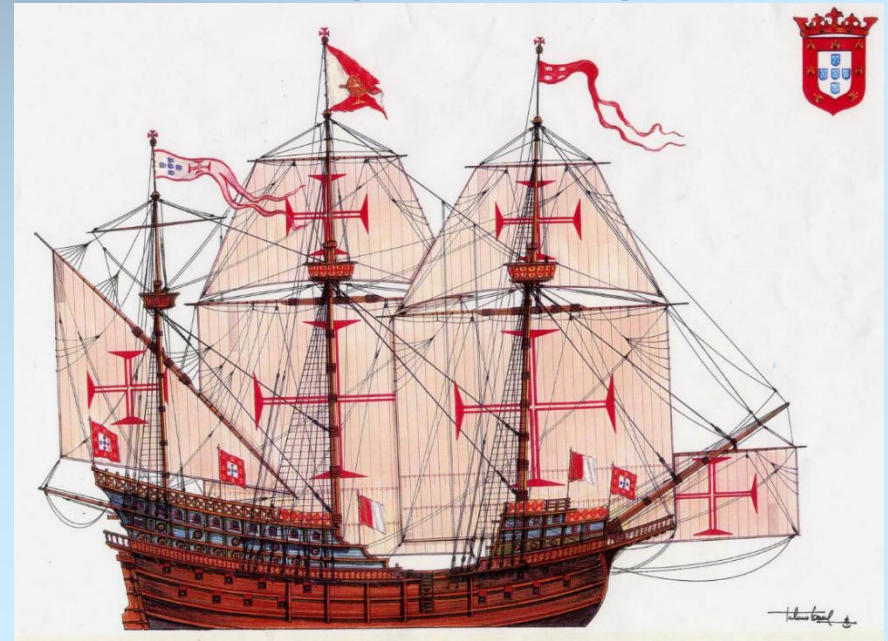
CARAVEL – latten and square rigged sails



GALLEY - oars



CARRACK– larger, more cargo and sails



Chapter 14 –Europe & World New Encounters

Shipbuilding

**Niña – caravel – 50 ft long, 7 ft draft, 16 ft beam
crew of 24**

**Pinta – caravel – 56 ft long, 8 ft draft, 18 ft beam
crew of 26**

**Santa María – carrack - 62 ft long, 10 ft draft
18 ft beam, crew of 40**



Chapter 14 –Europe & World New Encounters

Niña

caravel – 50 ft long, 7 ft draft, 16 ft beam
crew of 24



Hunter 50 AC

49.92 ft long, 7.00 ft draft, 14.75 ft. beam

Chapter 14 – *Europe & World New Encounters*

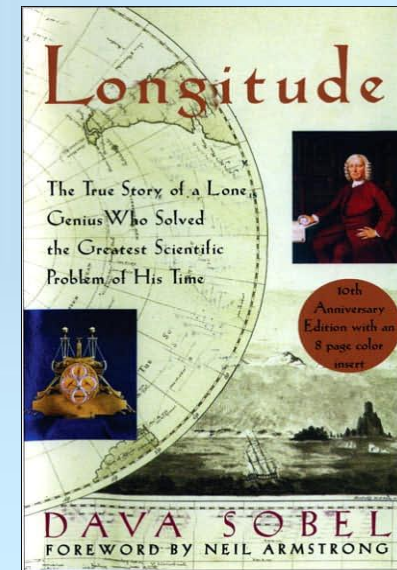
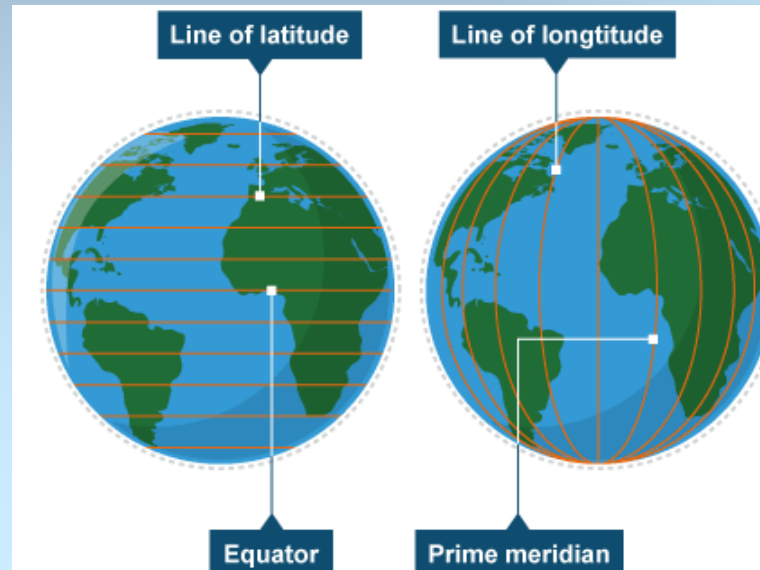
Navigation

Compass – direction

Astrolabe – position - latitude only

Dead Reckoning – guess speed & distance

Marine Chronometer – not until 1761



Next Up... Chapter 14-B

Europe and the World: New Encounters 1500-1800

