Jared Diamond, Guns, Germs, Steel: A Geographic Explanation of History

Yali's Question (p. 14):

Why is it that you white people developed so much cargo and brought it to New Guinea, but we black people had little cargo of our own?

Essential Questions:

What material conditions influence (determine) "culture"?

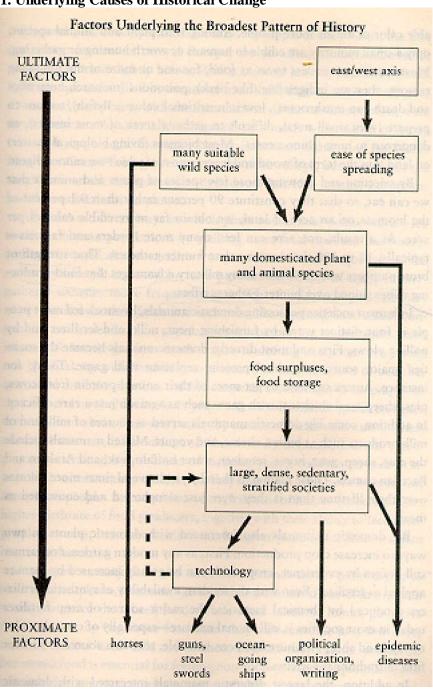
What is the impact of geography on history (geographic determinism)?

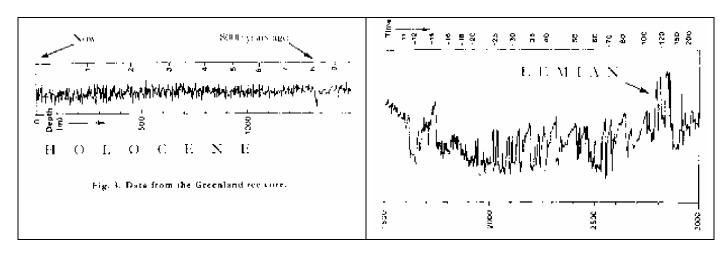
Is our history written in our genes (biological determinism/ racial inferiority)?

Are some cultures "superior" to offers (cultural determinism)?

What role do contingency (accident?) and free will play in history?

1. Underlying Causes of Historical Change





2. East/West Axis

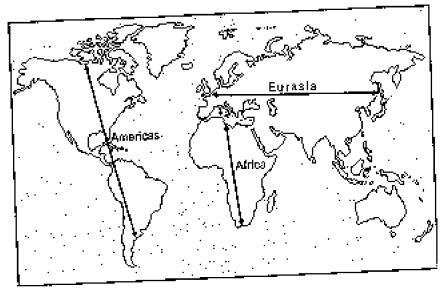


Figure 10.1. Major axes of the continents.

3. Climate Zones

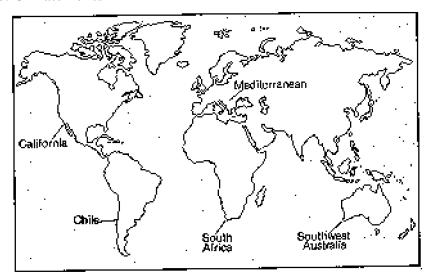


Figure 8.2. The world's zones of Mediterranean climate.





4. Humanoid Migration

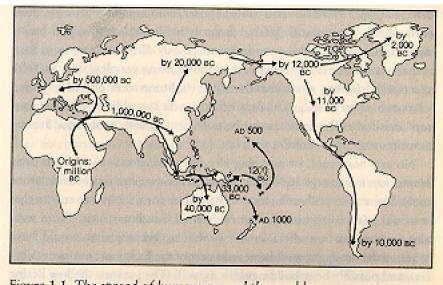


Figure 1.1. The spread of humans around the world.

5. Pacific Migration

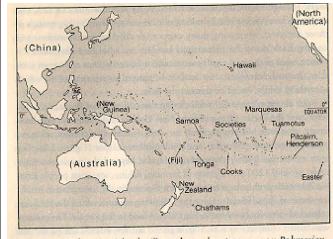
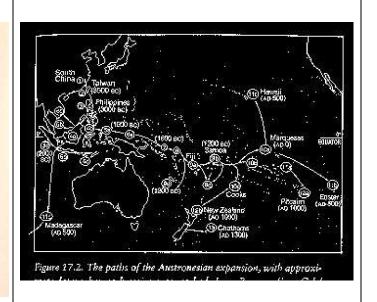


Figure 2.1. Polynesian islands. (Parentheses denote some non-Polynesian lands.)



6. Food Origins

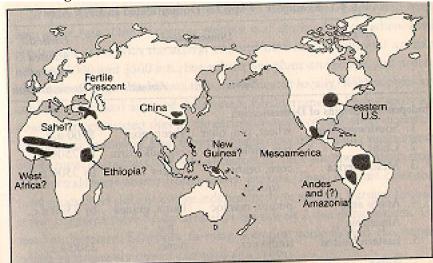


Figure 5.1. Centers of origin of food production. A question mark indicates some uncertainty whether the rise of food production at that center was really uninfluenced by the spread of food production from other centers, or (in the case of New Guinea) what the earliest crops were.

7. Fertile Crescent

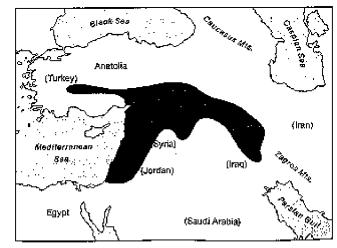


Figure 8.1. The Fertile Crescent, encompassing sites of food production before 7000 B.C.

Spread of Fertile Crescent Crops

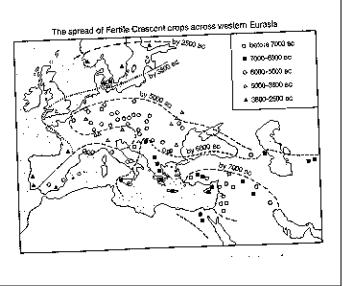




Fig. 7: Wild and domesticated einkarn wheat.

8. Domesticated Animals

Fourteen Species of Big Herbivorous Domestic Animals (p. 160-161)

Major Five	Wild Ancestor Original	Original Range	Minor Nine	Wild Ancestor	Range
Sheep	Asiatic mouflon sheep	west central Asia	Arabian camel (one-hump)	One- hump camel	Arabia
Goat	Bezoar goat	West Asia	Bactrian camel (two-hump)	Two-hump camel	Central Asia
Cow	Aurochs	Eurasia North Africa	Llama/alpaca	Guanaco	Andes
Pig	Wild boar	Eurasia North Africa	Donkey	Wild ass	North Africa Southwest Asia
Horse	Wild horse	Russian steppe	Reindeer	Reindeer	Arctic Eurasia
			Water buffalo	Water buffalo	Southeast Asia
			Yak	Wild Yak	Himalayas
			Bali cattle	Banteng (aurochs)	Southeast Asia
			Mithan	Gaur (aurochs)	India & Burma

Mammalian Candidates for Domestication (p. 162)

	Eurasia	Sub-Sahara Africa	Americas	Australia
Candidates	72	51	24	1
Domesticated	13	0	1	0
Percent	18%	0	4%	0

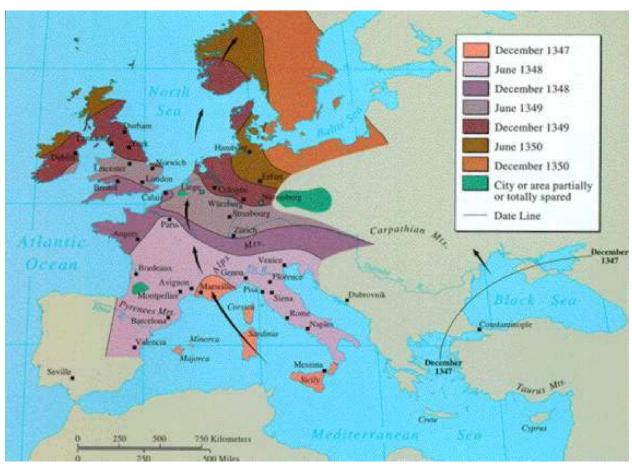
Dates of Domestication of large Mammal Species (p. 167)

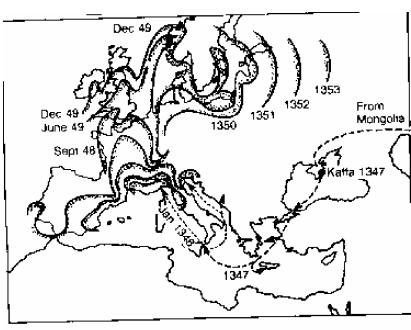
Dutes of Domestication of angentaminal Species (p. 107)					
Species	Date	Place			
Dog	10,000 BC	Southwest Asia, China, North America			
Sheep	8,000 BC	Southwest Asia			
Goat	8,000 BC	Southwest Asia			
Pig	8,000 BC	China, Southwest Asia			
Cow	6,000 BC	Southwest Asia, India, North Africa (?)			
Horse	4,000 BC	Ukraine			
Donkey	4,000 BC	Egypt			
Llama/Alpaca	3,500 BC	Andes			
Bactrian Camel (two-hump)	2,500 BC	Central Asia			
Arabian Camel (one-hump)	2,500 BC	Arabia			

Deadly Diseases from Animals (p. 207)

Human Disease	Most likely animal host & pathogen
Measles	Cattle (rinderpest)
Tuberculosis	Cattle
Smallpox	Cattle (cowpox)
Flu	Pigs & Ducks
Pertussis	Pigs & Dogs
Falciparum malaria	Chickens & Ducks (?)
HIV-AIDS	Monkeys (Simian IV)

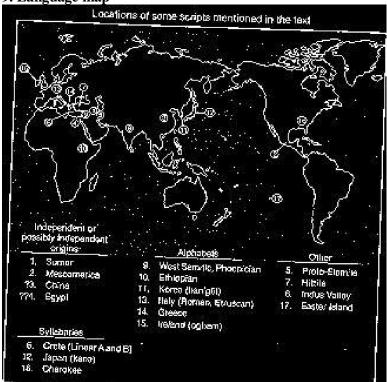
Spread of the Bubonic Plague in Europe



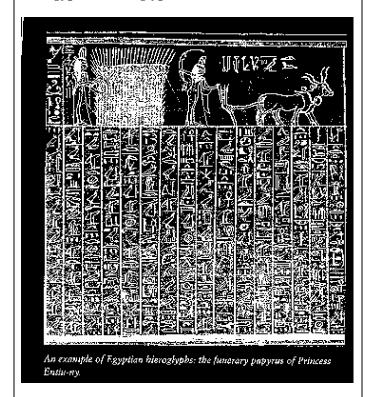


The spread of the Black Death in Europe, 1347-53

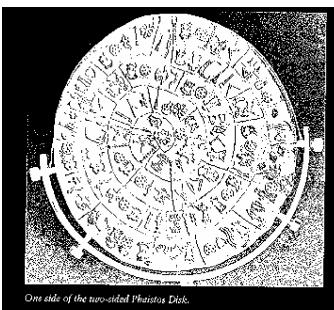
9. Language map

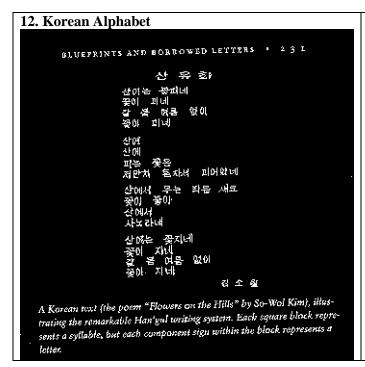


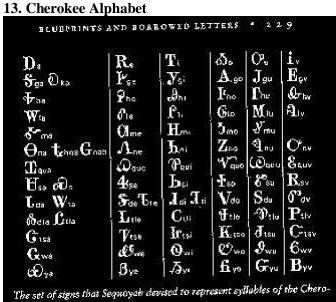
10. Egyptian Hieroglyphics



11. Mesopotamian Printing Disk

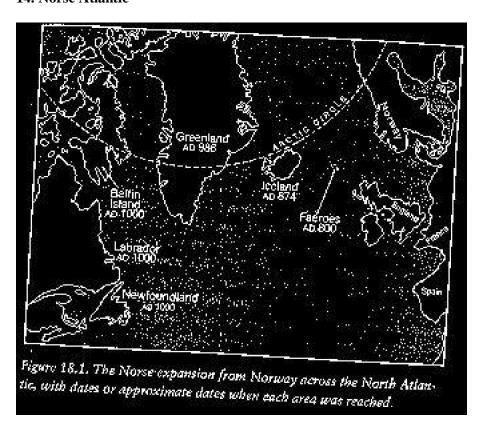




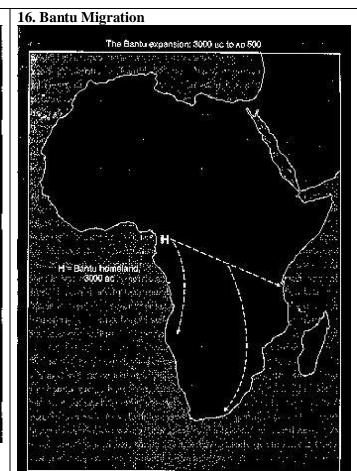


kee language.

14. Norse Atlantic



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17. African Crops

Figure 19.2. Language families of Africa.

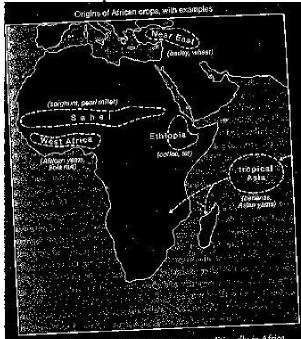
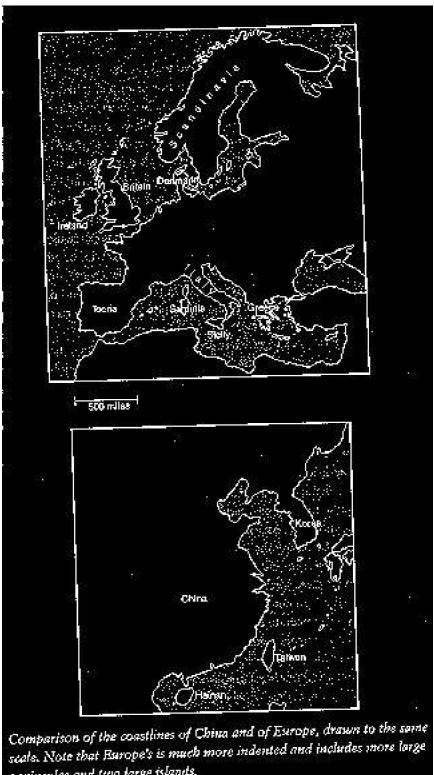


Figure 19.3. The areas of origin of crops grown traditionally in Africa (that is, before the arrival of crops carried by colonizing Europeans), with examples of two crops from each area.

18. Comparing Coastlines – Atlantic Europe and Pacific Asia



peninsulas and two large islands.



19. Types of Human Societies

Characteristics	Band	Tribe	Chiefdom	State	
Number of people	Dozens	Hundreds	Thousands	Over 50,000	
Settlement patterns	Nomadic	One village	One or more villages	Many villages	
Relationships	Kin	Clan based kinship	Class & residence	Class & residence	
Ethnicities/languages	One	One	One	One or more	
Decision making	Egalitarian	Egalitarian/big man	Centralized/hereditary	Centralized	
Bureaucracy	None	None	None/minimal	Many levels	
Monopoly of Power	No	No	Yes	Yes	
Conflict resolution	Informal	Informal	Centralized	Laws, Judges	
Central Administration	No	No	Starts	Capital	
Religion supports class	No	No	Yes	Maybe	
Food production	No	Starts	Becomes intensive	Intensives	
Division of labor	No	No	Starts	Yes	
Exchange	Reciprocal	Reciprocal	Tribute	Taxes	
Control of land	Collective	Clan	Chief	Various	
Social Stratification	None	None	Starts, by kinship	Established	
Slavery	None	None	Small-scale	Large-scale	
Luxury for Elite	None	None	Yes	Yes	
Public architecture	None	None	Starts	Yes	
Indigenous literacy	None	None	No	Often	

20. Dates for Major Developments in Human History (p. 362-363)

Developments	Fertile	British	China	Andes	Amazonia	Mesoamerica	Eastern
	Crescent	Isles					US
Plant Domestication	8500 BC	3500 BC	7500 BC	3000 BC	3000 BC	3000 BC	2500 BC
Animal Domestication	8000 BC	3500 BC	7500 BC	3500 BC	?	500 BC	
Pottery	7000 BC	3500 BC	7500 BC	3100 BC	6000 BC	1500 BC	2500 BC
Villages	9000 BC	3000 BC	7500 BC	3100 BC	6000 BC	1500 BC	500 BC
Chiefdoms	5500 BC	2500 BC	4000 BC	1500 BC	1 AD	1500 BC	200 BC
Copper & Bronze tools	4000 BC	2000 BC	2000 BC	1000 AD			
States	3700 BC	500 AD	2000 BC	1 AD		300 BC	
Writing	3200 BC	43 AD	1300 BC			600 BC	
Iron Tools	900 BC	650 BC	500 BC				

21. Human Population of Continents

Continent	1990	Area square miles
Eurasia & North Africa	4,120,000,000	24,200,000
Eurasia	4,000,000,000	21,500,000
North Africa	120,000,000	2,700,000
Americas	736,000,000	16,400,000
Sub-Sahara Africa	535,000,000	9,100,000
Australia	18,000,000	3,000,000