



Откуда произошли люди?

Лекция 4

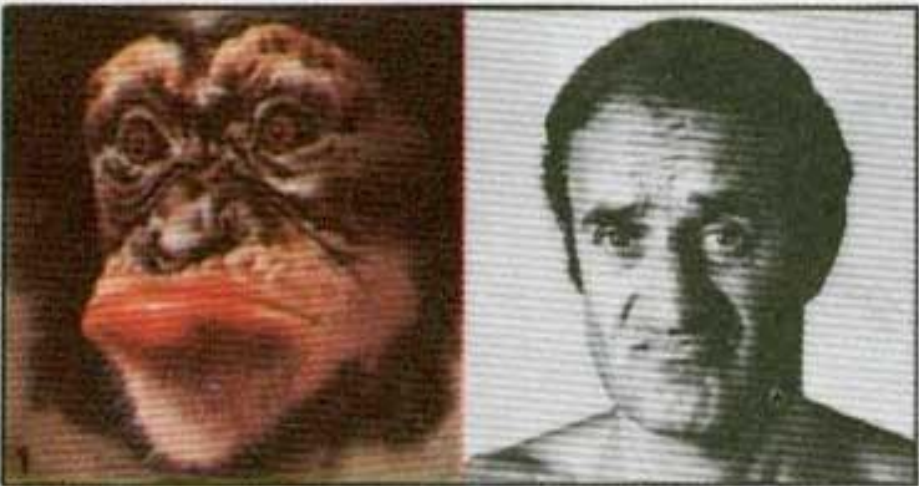
Как можно узнать про предков человека – по следам человекообразных существ – гоминид, обнаруженным Мэри Лики в 1979 году в районе Лаэтоли, Африка

Что такое реконструкция?

Отпечатки были оставлены в слоях вулканического пепла, возраст которого, согласно калий-аргоновому методу, составляет от **3,6 до 3,8 миллиона лет**

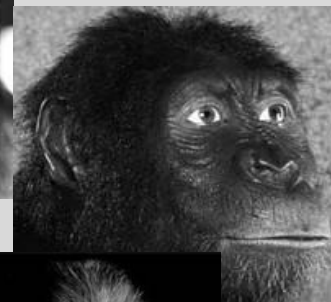
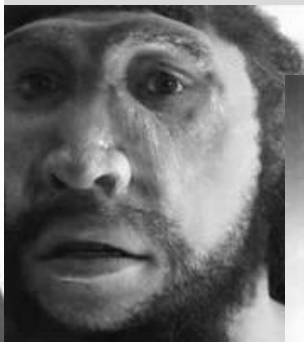






Facial expressions are more evolved in primates than in any other animals. Humans and chimpanzees have a range of expressions that are very similar. A chimpanzee's pout of curiosity (1) might be skepticism, or doubt, in a human. A smile (2) expresses pleasure in both chimpanzee and man.

A thoughtful or anxious chimpanzee (3) purses its lips in an expression very much like that of human concentration. There is one disparity however. What appears to be outright laughter (4) in a chimpanzee is in fact an expression of annoyance or unhappiness.



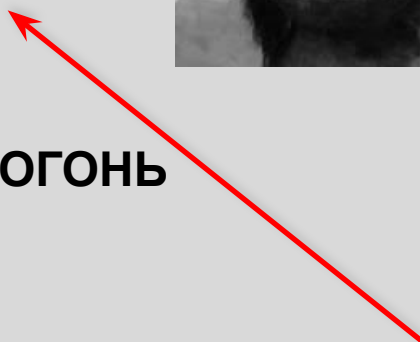
ОРУДИЯ



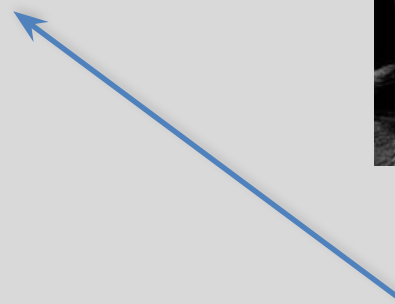
ЯЗЫК

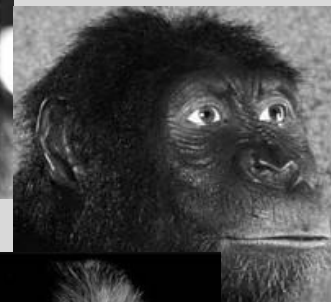


ОГОНЬ

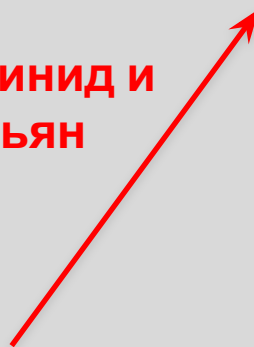
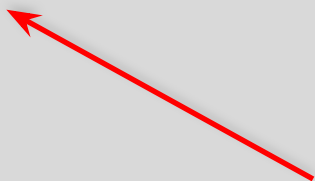


ПРЯМОХОЖДЕНИЕ





**Ископаемый предок гоминид и
человекообразных обезьян**





прямохождение

Гоминины – *Homo* – перешли от растительноядности к плотоядности. Вероятно, сначала они отнимали добычу у хищников или подбирали остатки их пиршеств. Об этом свидетельствуют следы каменных орудий на костях, отпечатавшиеся поверх следов зубов львов и гиен. "Ранние *Homo*" – *Homo habilis* и *Homo rudolfensis* – научились изготавливать



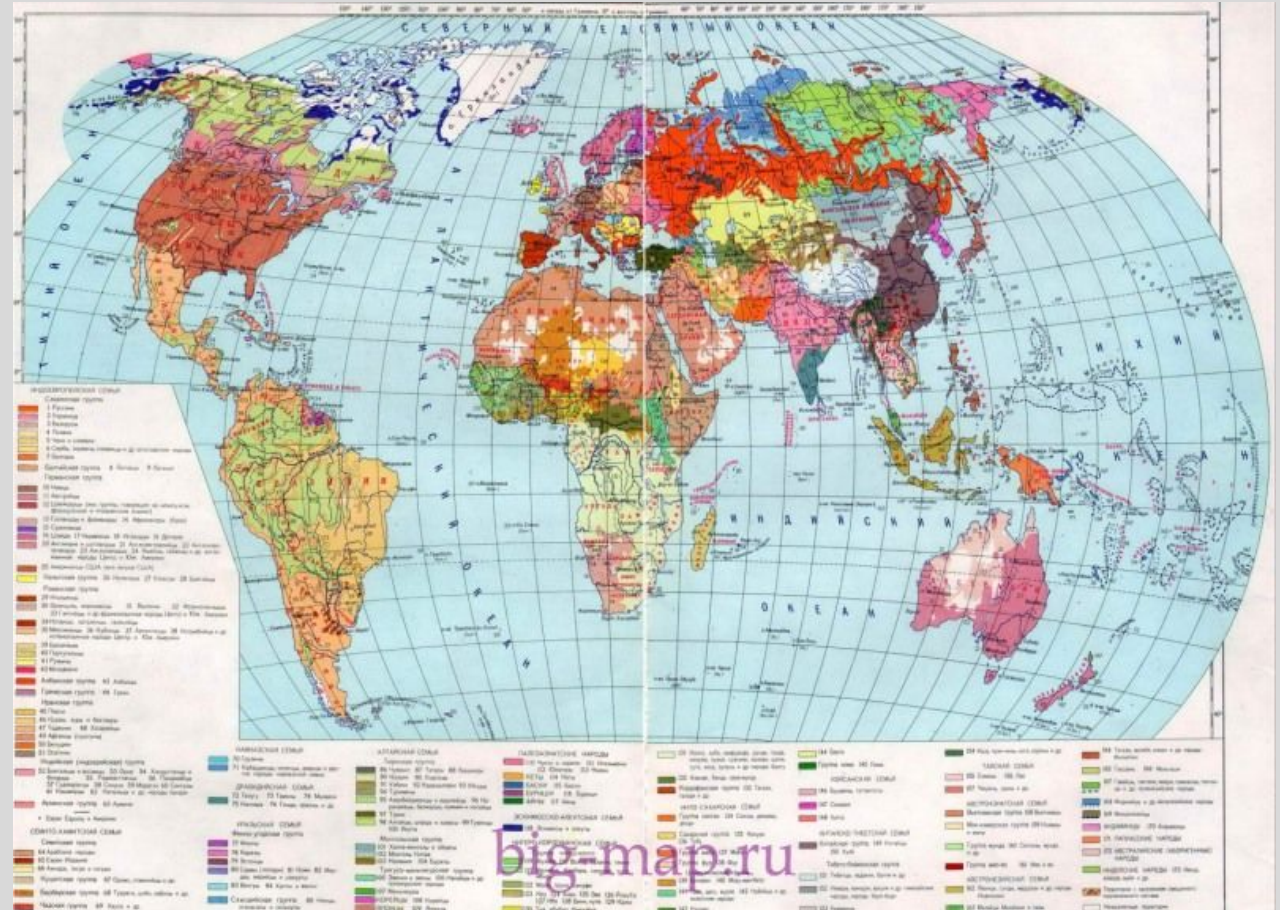
Кости со следами обработки орудиями

**Около 1,7 млн.л.н. в Африке появились
каменные индустрии, в которых
заметно довольно резкое изменение
технологии обработки камня и форм орудий.**



**Ашельска
я
культура**

Человек выходит из Африки



**Сколько разных народов и обществ на земном
шаре?**

6000-7000 языков

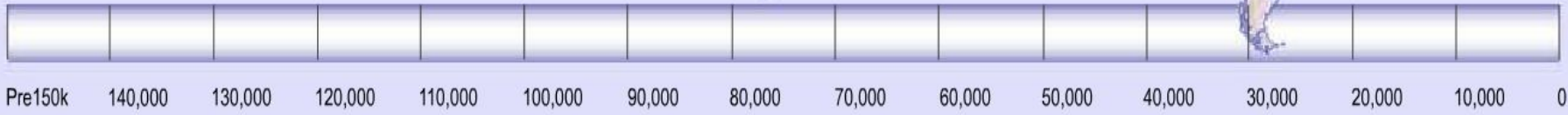
**К 1940 году было описано около 1200
народов**

Карта местонахождений

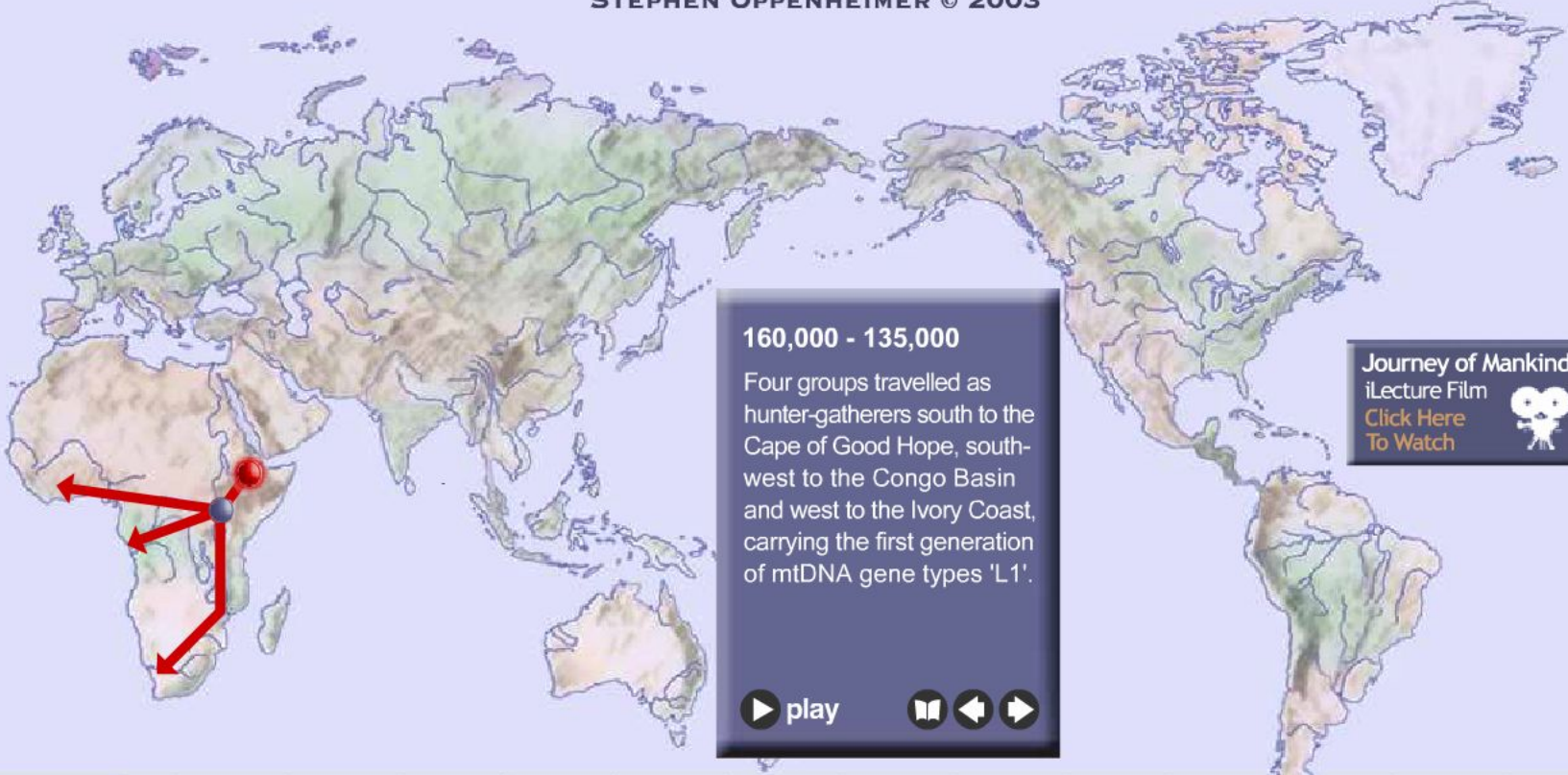


<http://www.bradshawfoundation.com/journey/>

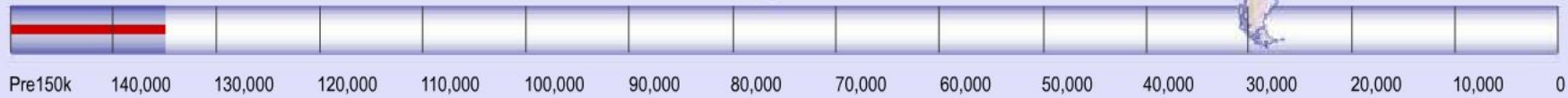
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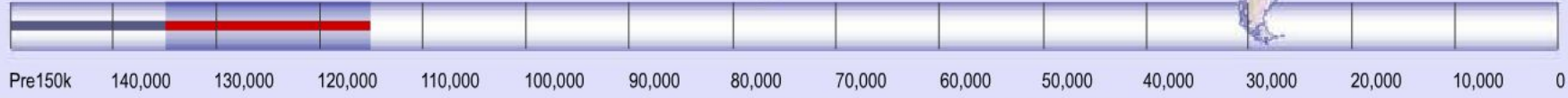


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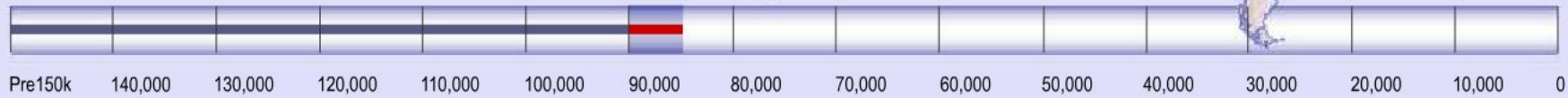
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Pre150k 140,000 130,000 120,000 110,000 100,000 90,000 80,000 70,000 60,000 50,000 40,000 30,000 20,000 10,000 0

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74,000 Mt Toba
 Super-eruption of Mt. Toba, Sumatra, causing a 6 year nuclear winter and instant 1000 year ice-age with a dramatic population crash, to less than **10,000 adults**. Volcanic ash from the eruption up to 5m deep covered India & Pakistan.

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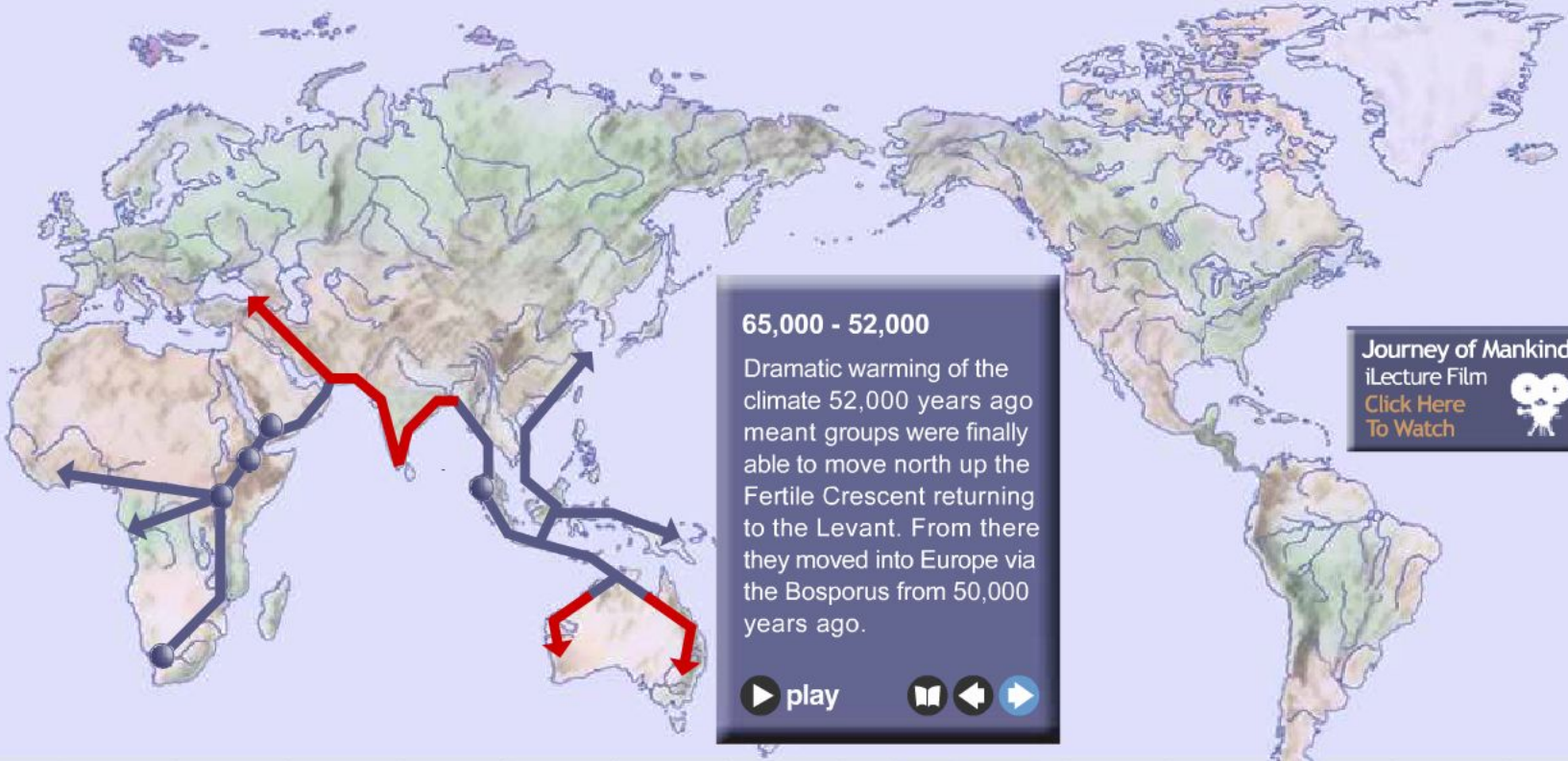
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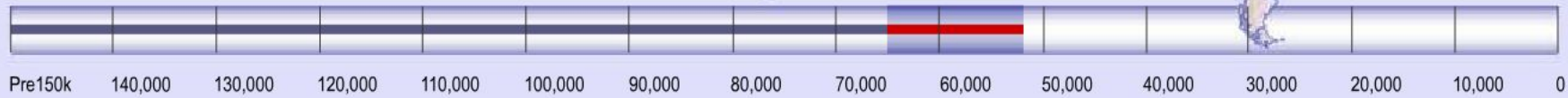
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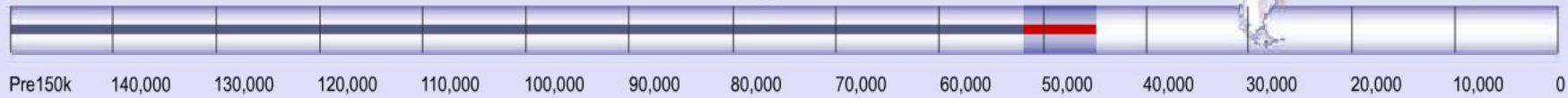
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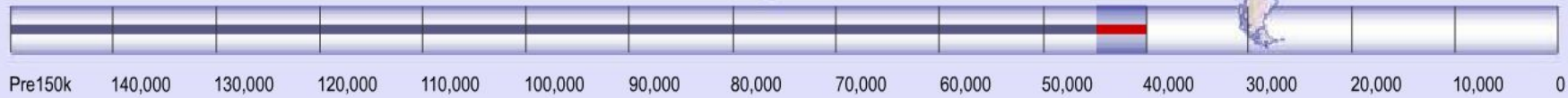
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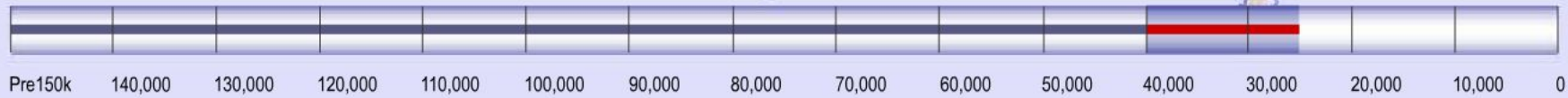
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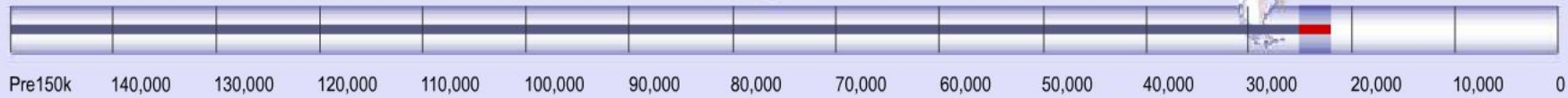
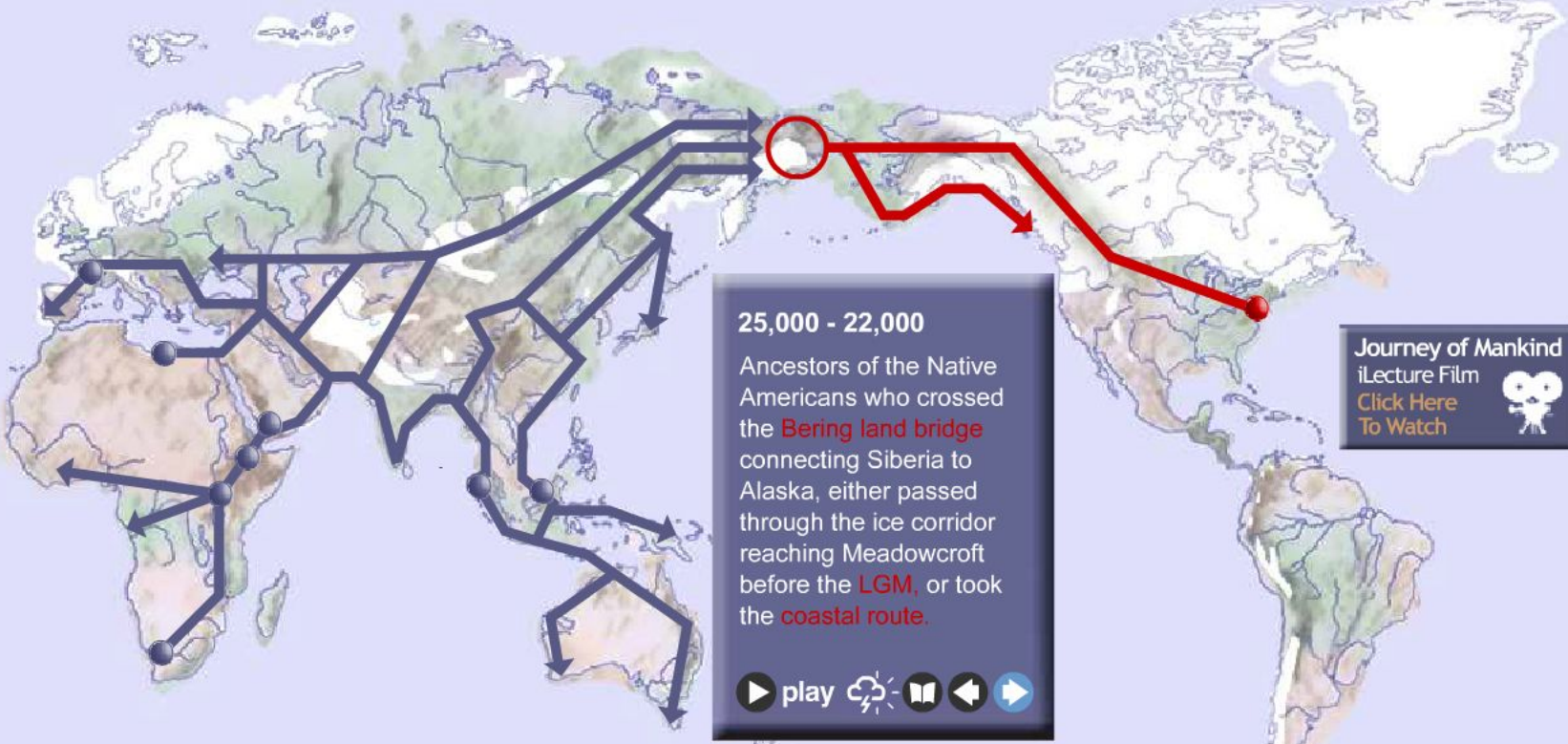
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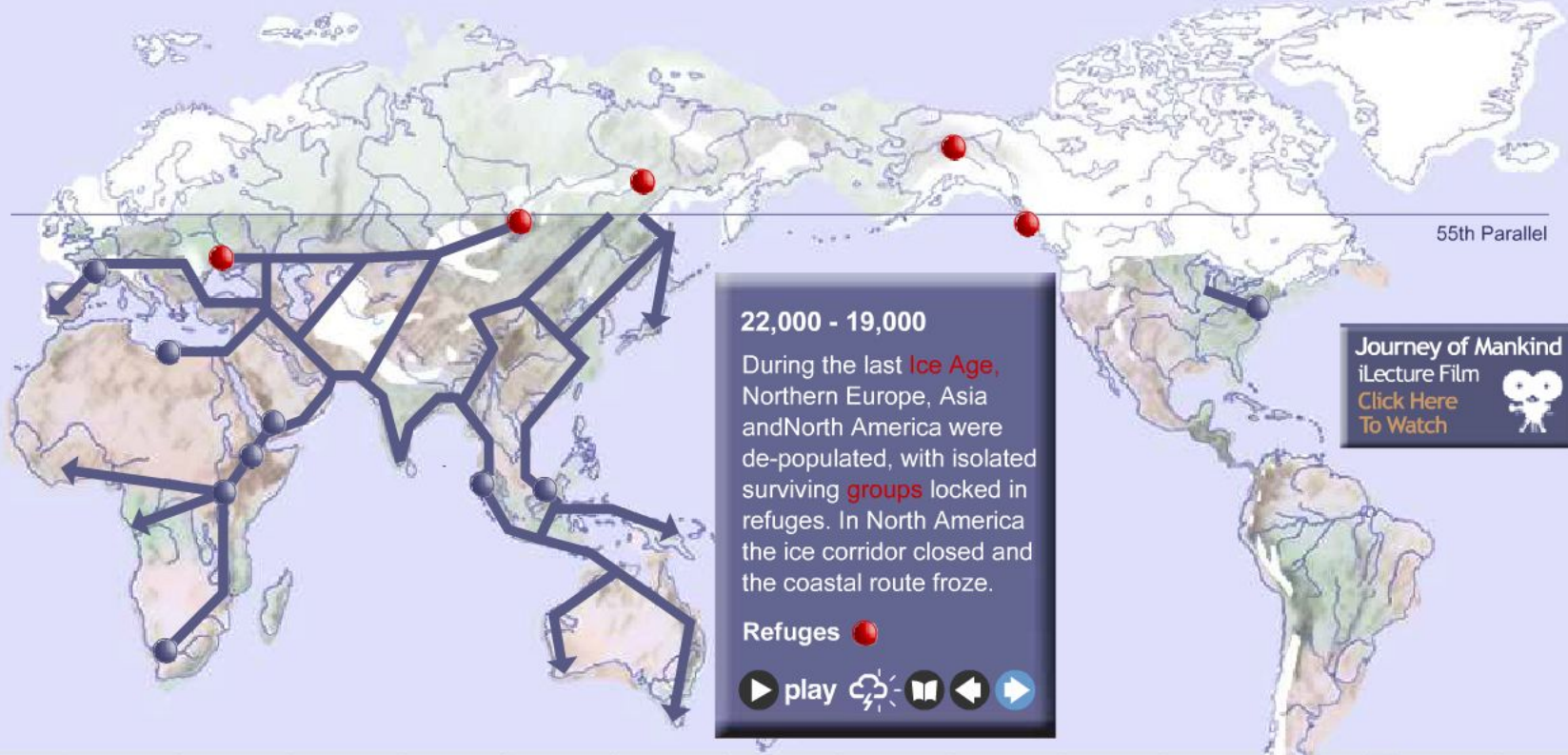
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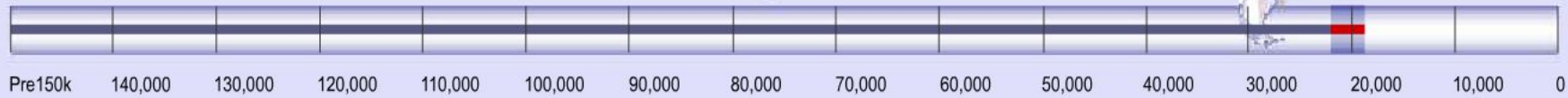


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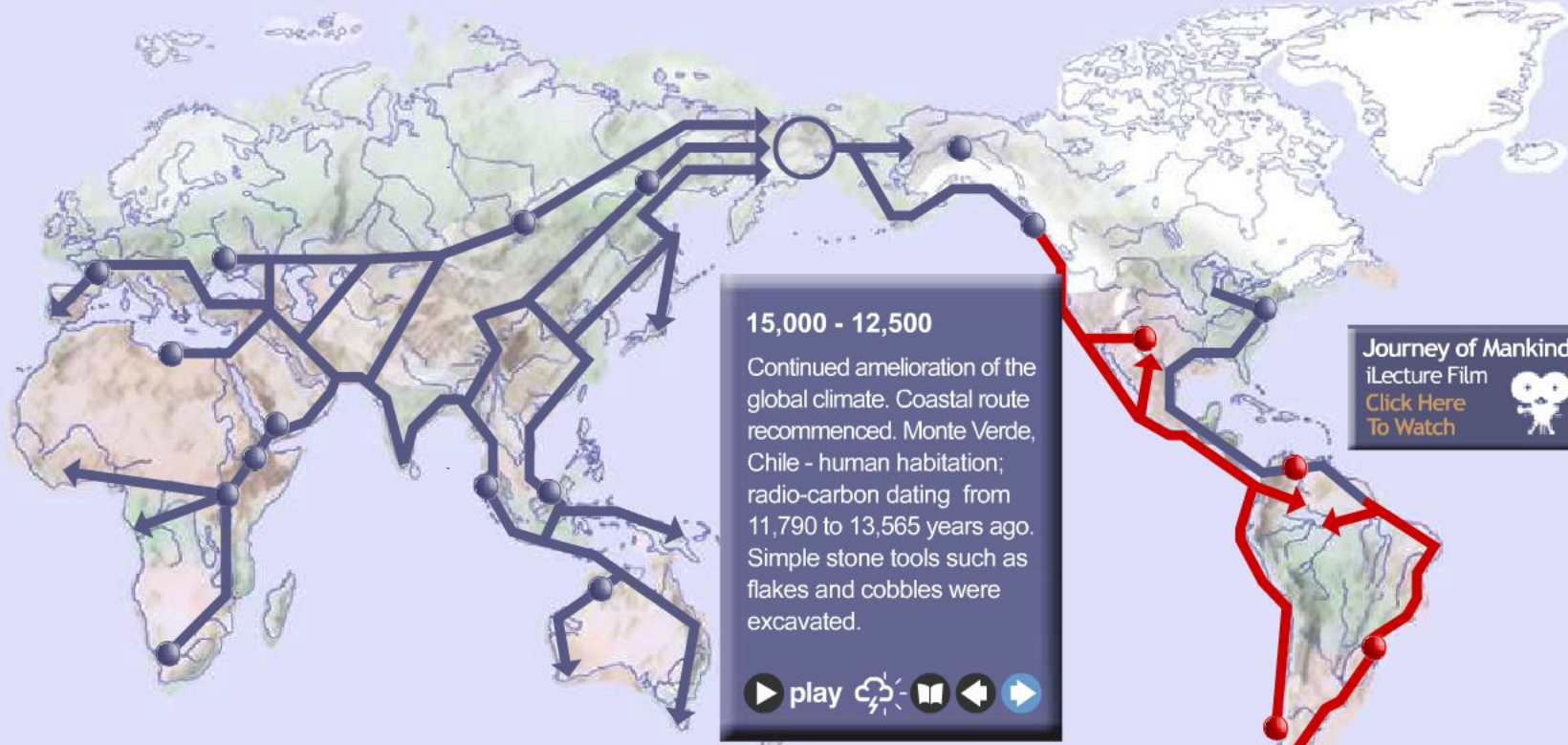
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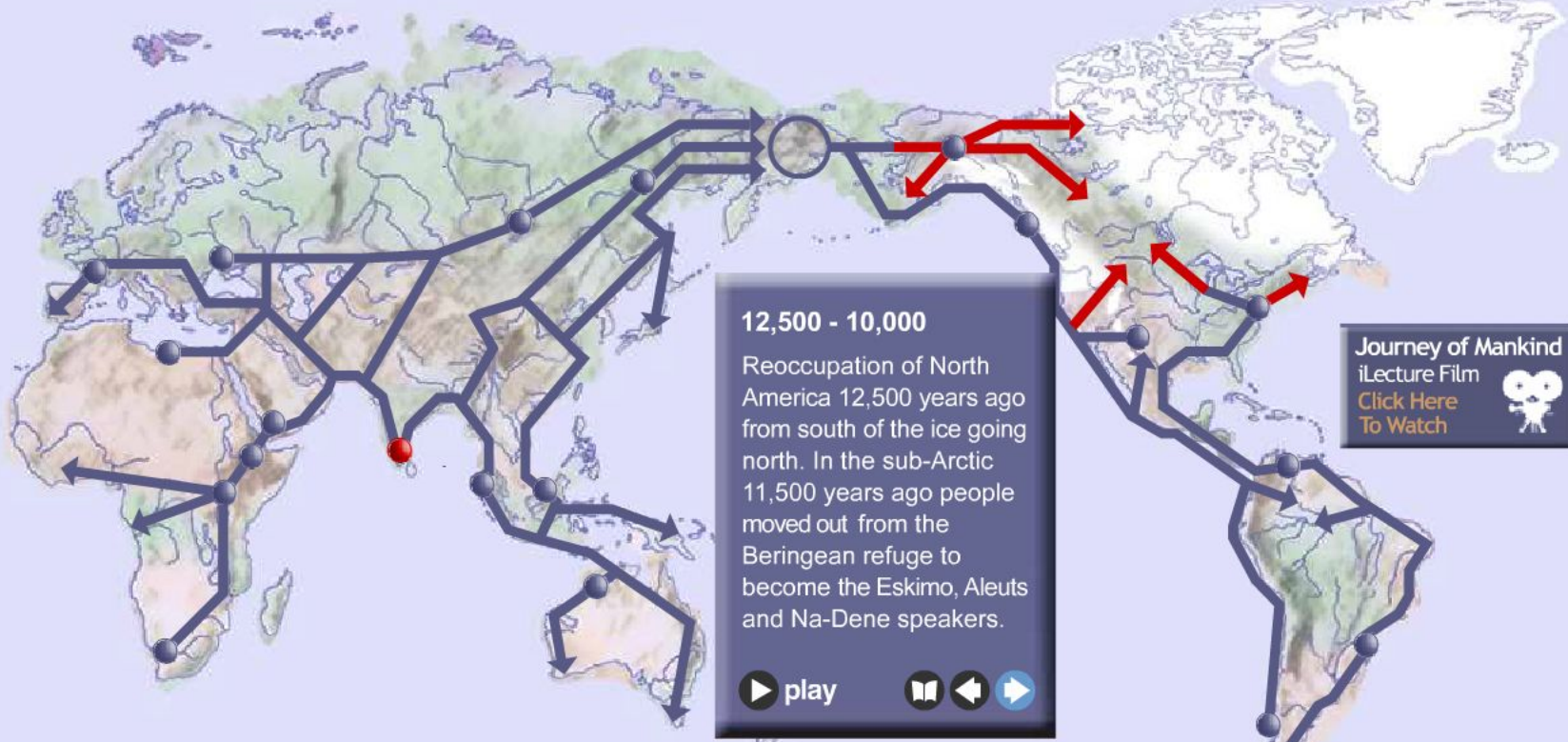
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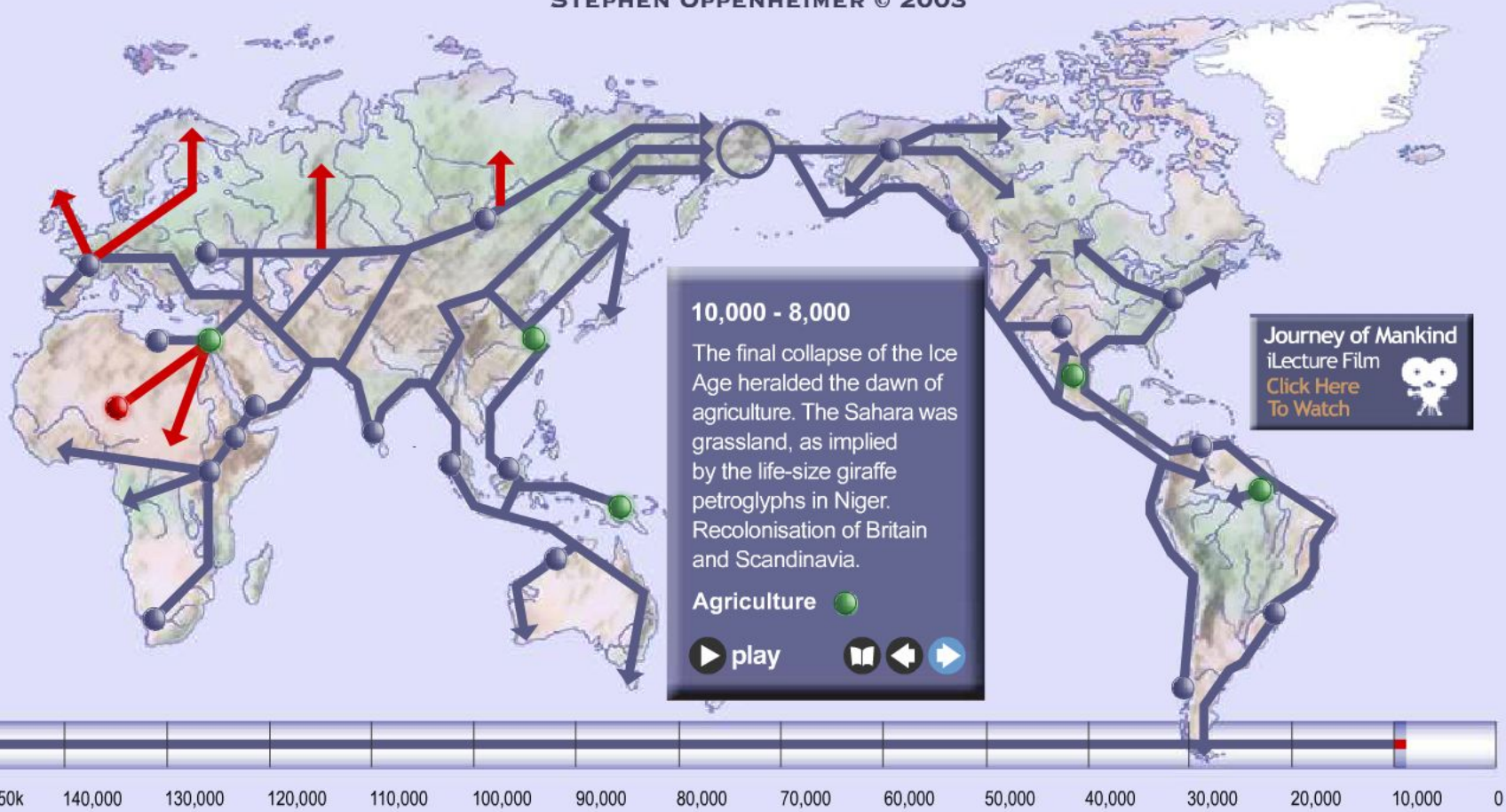
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10,000 - 8,000
The final collapse of the Ice Age heralded the dawn of agriculture. The Sahara was grassland, as implied by the life-size giraffe petroglyphs in Niger. Recolonisation of Britain and Scandinavia.
Agriculture ●
▶ play ◀ ◀ ▶ ▶

