Week 2: Shipwrecks and Seafaring

This document brings together all of the links shared in the course during Week 2, in one convenient location. Links to educator and facilitator profiles are not listed.

Welcome to Week 2

The earliest seafarers

The earliest seafarers (video)

- N/A

The earliest seafarers (article)

- What does it mean to be human?: [http://humanorigins.si.edu/evidence/human-fossils/species/homo-sapiens](http://humanorigins.si.edu/evidence/human-fossils/species/homo-sapiens)
- Spread of the Neolithic: [http://www.sciencedaily.com/releases/2014/06/140610102041.htm](http://www.sciencedaily.com/releases/2014/06/140610102041.htm)
- Introduction to human evolution: [http://humanorigins.si.edu/resources/intro-human-evolution](http://humanorigins.si.edu/resources/intro-human-evolution)
Explore further – extended reading

- DISPERSE Dynamic landscapes, coastal environments and hominin dispersals: [http://www.york.ac.uk/archaeology/research/current-projects/disperse/](http://www.york.ac.uk/archaeology/research/current-projects/disperse/)

Early boats

- British Library Online Gallery Image of North Indian River: [http://www.bl.uk/onlinegallery/onlineex/apac/photocoll/i/zoomify56460.html](http://www.bl.uk/onlinegallery/onlineex/apac/photocoll/i/zoomify56460.html)
- Slow death of Africa’s Lake Chad, 14th April 2006: [http://news.bbc.co.uk/1/hi/4906692.stm](http://news.bbc.co.uk/1/hi/4906692.stm)
- Image of Egyptian tomb relief: [http://www.touregypt.net/images/touregypt/nefert15.jpg](http://www.touregypt.net/images/touregypt/nefert15.jpg)
- The Royal Ship of Khufu: [http://nautarch.tamu.edu/class/316/khufu/](http://nautarch.tamu.edu/class/316/khufu/)
- Image of Heracles in a pot boat. From an Athenian vase c.480 BC: [https://www.flickr.com/photos/14485539@N00/5402516830](https://www.flickr.com/photos/14485539@N00/5402516830)
- Image of painted ceramic disc: [http://www.ucl.ac.uk/archaeology/kuwait/images/boats/disc.jpg](http://www.ucl.ac.uk/archaeology/kuwait/images/boats/disc.jpg)
- Bronze Age log boats at Must Farm, 8th September 2013: [http://www.bbc.co.uk/news/uk-england-cambridgeshire-23974518](http://www.bbc.co.uk/news/uk-england-cambridgeshire-23974518)
- Boatyard Beneath The Solent’s Waves, 5th February 2008: [http://www.archaeology.co.uk/articles/features/boatyard-beneath-the-solents-waves.htm](http://www.archaeology.co.uk/articles/features/boatyard-beneath-the-solents-waves.htm)
Explore further – extended reading

The ancient Mediterranean and Indian Ocean

The classical world

• N/A

Late Bronze Age trade in the eastern Mediterranean

• Ancient Egypt: http://en.wikipedia.org/wiki/Ancient_Egypt
• Mesopotamia: http://www.mesopotamia.co.uk/
• History of Minoan Crete: http://www.ancient-greece.org/history/minoan.html
• Cape Gelidonya: http://en.wikipedia.org/wiki/Cape_Gelidonya
• Uluburun, Turkey: http://nauticalarch.org/projects/all/southern_europe_mediterranean_aegean/uluburun_turkey/introduction/
• Troodos Mountains: http://en.wikipedia.org/wiki/Troodos_Mountains
• Oxhide ingot: http://en.wikipedia.org/wiki/Oxhide_ingot
• Kition: http://en.wikipedia.org/wiki/Kition
• Hala Sultan Tekke: http://en.wikipedia.org/wiki/Hala_Sultan_Tekke
• Ancient Egypt: the sacred scarab: http://museum.unl.edu/research/entomology/Egyptian_Sacred_Scarab/egs-text.htm
• Dunnage: http://en.wikipedia.org/wiki/Dunnage
• Aegean Sea: http://en.wikipedia.org/wiki/Aegean_Sea
• Akrotiri frescoes: http://www.ancient.eu/article/673/
• Cuneiform: http://en.wikipedia.org/wiki/Cuneiform
• Mari, Syria: http://en.wikipedia.org/wiki/Mari,_Syria
• Ugarit: http://en.wikipedia.org/wiki/Ugarit
• Amarna Project: http://www.amarnaproject.com/
• Tel Dor Excavation project: http://dor.huji.ac.il/periods_LB.html

Ships, shipbuilding and sailing in the ancient Mediterranean

• Lighter (barge): http://en.wikipedia.org/wiki/Lighter_%28barge%29
• Mortise and tenon: http://en.wikipedia.org/wiki/Mortise_and_tenon
Explore further – extended reading

- Madrague de Giens (shipwreck):
  - http://en.wikipedia.org/wiki/Madrague_de_Giens_%28Shipwreck%29
- Sailing the ship reconstructed from the Kyrenia shipwreck: https://www.youtube.com/watch?v=p8m7lG0rz4c&feature=youtu.be
- Roman Mediterranean shipping: http://moocs.southampton.ac.uk/portus/2014/06/03/roman-mediterranean-shipping/

**Indo-Roman Trade**

- Myos Hormos: http://en.wikipedia.org/wiki/Myos_Hormos

**Interpreting ancient iconography**

- N/A

**Mariners in the medieval world**

**Experimental Maritime Archaeology**

- Starting the dialogue between archaeologist and boat builder: http://moocs.southampton.ac.uk/shipwrecks/2014/10/04/starting-dialogue-archaeologist-boat-builder/
- Sebbe Als – a Viking ship today: http://www.sebbeals.dk/diverse/sebbeenglish.pdf
- Imme Skinfaxe – Copenhagen, Denmark: http://www.vikingtoday.com/ships/denmark/imme-skinfaxe.htm

**Medieval seafaring**

- N/A
Explore further – extended reading

The Vikings

- Dublinia – Experience Viking and Medieval Dublin: [http://www.dublinia.ie/](http://www.dublinia.ie/)
- The Volga Vikings: [http://www.bbc.co.uk/programmes/b00vrx8q](http://www.bbc.co.uk/programmes/b00vrx8q)
- Vikings – explore the world of Vikings with curator Flemming Kaul as guide: [https://www.youtube.com/watch?v=ax_pkPdVFKk](https://www.youtube.com/watch?v=ax_pkPdVFKk)
- Nydam Mose: [http://www.nydam.nu/nydam-boats](http://www.nydam.nu/nydam-boats)
- Ship reconstruction at the Viking Ship Museum’s boatyard: [http://www.vikingeskibsmuseet.dk/en/research/ship-reconstruction/#.U85FeI1dVR1](http://www.vikingeskibsmuseet.dk/en/research/ship-reconstruction/#.U85FeI1dVR1)
- Dorestad revealed - the trading center of Dorestad – an historical outline: [http://www.dorestadonthuld.nl/English_general.html](http://www.dorestadonthuld.nl/English_general.html)
- Viking boat burial: [http://www.butstillitmovess.com/atp/Ardnamurchan_Transitions_Project/Viking_Boat_Burial.html](http://www.butstillitmovess.com/atp/Ardnamurchan_Transitions_Project/Viking_Boat_Burial.html)

Shipbuilding and life on board

- Cog ship at sea. Video of a true copy of a cog discovered in 1991 near Skanor in SW Sweden. The cog ships were common in the Hansa trade from the end of the 10th century through several hundred years. [https://www.youtube.com/watch?v=JLT3cwVJn0Y](https://www.youtube.com/watch?v=JLT3cwVJn0Y)
- The excavation of ‘Bryggen’, the old Hanseatic Wharf in Bergen by Asbjorn E. Herteig: [http://archaeologydataservice.ac.uk/archiveDS/archiveDownload?t=arch-769-1/dissemination/pdf/vol03/3_177_186.pdf](http://archaeologydataservice.ac.uk/archiveDS/archiveDownload?t=arch-769-1/dissemination/pdf/vol03/3_177_186.pdf)

Doel 1, a cog found in Antwerp, Belgium

Explore further – extended reading

- Wooden boat building - how to caulk wood planking by Louis Saucedde: [https://www.youtube.com/watch?v=jM6R81SiKqA](https://www.youtube.com/watch?v=jM6R81SiKqA)
- The Dutch Economy in the Golden Age (16th – 17th Centuries) by Donald J. Harreld: [http://eh.net/encyclopedia/the-dutch-economy-in-the-golden-age-16th-17th-centuries/](http://eh.net/encyclopedia/the-dutch-economy-in-the-golden-age-16th-17th-centuries/)

Navigation and trade

- The ancient town of Winchelsea: [http://www.winchelsea.net/visiting/winchelsea_history.htm](http://www.winchelsea.net/visiting/winchelsea_history.htm)
- Seafaring and navigation in medieval Europe: [http://www.fofweb.com/History/HistRefMain.asp?iPin=ESCMW494&SJD=2&DatabaseName=Ancient+and+Medieval+History+Online&InputText=%22Hanseatic+League%22&SearchStyle=&dTitle=seafaring+and+navigation+in+medieval+Europe&TabRecordType=Subject+Entry&BioCountPass=4&SubCountPass=37&DocCountPass=0&ImgCountPass=0&MapCountPass=2&FedCountPass=&MedCountPass=2&NewsCountPass=0&RecPosition=33&AmericanData=&WomenData=&AFHCData=&IndianData=&WorldData=&AncientData=Set&GovernmentData=]

A new technology for a post-medieval world: the change from clinker to carvel


An on board society: the Mary Rose

Explore further – extended reading


Global seafaring in the Age of Sail

The onset of global seafaring

- N/A

The Age of Sail and European Empire

- On the water: Web of connections: [http://amhistory.si.edu/onthewater/exhibition/1_2.html](http://amhistory.si.edu/onthewater/exhibition/1_2.html)
- The Art of Tautai: Polynesian Wayfinder: [https://www.youtube.com/watch?v=joP-v7NxQZU](https://www.youtube.com/watch?v=joP-v7NxQZU)
- The archaeology of seafaring through the ages: [https://www.southampton.ac.uk/seafaring_timeline/](https://www.southampton.ac.uk/seafaring_timeline/)
- Empire Online: [http://www.empire.amdigital.co.uk/Introduction/index](http://www.empire.amdigital.co.uk/Introduction/index)
- Visualizing ocean shipping: [http://sappingattention.blogspot.co.uk/2012/04/visualizing-ocean-shipping.html](http://sappingattention.blogspot.co.uk/2012/04/visualizing-ocean-shipping.html)

Nations, Navies and Navigation: The development of the post-medieval warship

- Painting of English ship from Royal Museums Greenwich: [http://collections.rmg.co.uk/collections/objects/15055.html](http://collections.rmg.co.uk/collections/objects/15055.html)
Explore further – extended reading

- The mariners' instruments: [http://www.gresham.ac.uk/lectures-and-events/the-mariners%E2%80%99-instruments](http://www.gresham.ac.uk/lectures-and-events/the-mariners%E2%80%99-instruments)
- Portrait of 17th century Dutch ship from Royal Museums Greenwich: [http://collections.rmg.co.uk/collections/objects/144953.html](http://collections.rmg.co.uk/collections/objects/144953.html)
- Portrait of a French two-decker ship from Royal Museums Greenwich: [http://collections.rmg.co.uk/collections/objects/136170.html](http://collections.rmg.co.uk/collections/objects/136170.html)
- Painting of Destruction of the Soleil Royal at the Battle of La Hogue, 23rd May 1692, from Royal Museums Greenwich: [http://collections.rmg.co.uk/collections/objects/11830.html](http://collections.rmg.co.uk/collections/objects/11830.html)
- Ships, Clocks & Stars: The Quest for Longitude: [http://www.rmg.co.uk/whats-on/events/ships-clocks-stars](http://www.rmg.co.uk/whats-on/events/ships-clocks-stars)

Sea Venture – An early colonial vessel lost off Bermuda in 1609

Explore further – extended reading

The Transatlantic Slave trade

• The Transatlantic slave trade database: [http://www.slavevoyages.org/tast/index.faces](http://www.slavevoyages.org/tast/index.faces)
• BBC History abolition: [http://www.bbc.co.uk/history/british/abolition/](http://www.bbc.co.uk/history/british/abolition/)
• Past Horizons adventures in archaeology, Slave burial ground excavated on St Helena: [http://www.pasthorizonspr.com/index.php/archives/03/2012/slave-burial-ground-excavated-on-st-helena](http://www.pasthorizonspr.com/index.php/archives/03/2012/slave-burial-ground-excavated-on-st-helena)
• Dr Christer Petley: [http://www.southampton.ac.uk/history/about/staff/cp16v07.page](http://www.southampton.ac.uk/history/about/staff/cp16v07.page)
• Audio slideshow, Mark Horton on St Helena's slave graveyard: [https://www.youtube.com/watch?v=FPzMfMYLm8t](https://www.youtube.com/watch?v=FPzMfMYLm8t)
• The Brookes: visualizing the transatlantic slave trade: [http://www.history.ac.uk/1807commemorated/exhibitions/museums/brookes.html](http://www.history.ac.uk/1807commemorated/exhibitions/museums/brookes.html)
• Slavery and Revolution, Jamaica and Slavery in the Age of Revolution: [http://blog.soton.ac.uk/slaveryandrevolution/](http://blog.soton.ac.uk/slaveryandrevolution/)

The archaeology of piracy

• Peter Pan: [http://www.gutenberg.org/ebooks/16](http://www.gutenberg.org/ebooks/16)
• Treasure Island: [http://www.gutenberg.org/ebooks/120](http://www.gutenberg.org/ebooks/120)
• A General History of the Pyrates by Daniel Defoe: [http://www.gutenberg.org/ebooks/40580](http://www.gutenberg.org/ebooks/40580)
• Queen Anne's Revenge: [http://www.qaronline.org/](http://www.qaronline.org/)
Explore further – extended reading

- The Wreck of the Cara Merchant: [http://www.indiana.edu/~scuba/captain%20kidd%20home.html](http://www.indiana.edu/~scuba/captain%20kidd%20home.html)
- Artefacts from Blackbeard's Queen Anne's Revenge: [http://www.qaronline.org/exhibit](http://www.qaronline.org/exhibit)
- The Queen Anne's Revenge lab: [http://www.qaronline.org/Conservation/QARLab.aspx](http://www.qaronline.org/Conservation/QARLab.aspx)
- Indiana University research and creative activity, There be Pirates: [http://www.indiana.edu/~rcapub/v30n2/pirates.shtml](http://www.indiana.edu/~rcapub/v30n2/pirates.shtml)

Asian sailors on British ships

- Why were Indian sailors called lascars: [http://www.rmg.co.uk/explore/sea-and-ships/facts/faqs/people/why-were-indian-sailors-called-lascars](http://www.rmg.co.uk/explore/sea-and-ships/facts/faqs/people/why-were-indian-sailors-called-lascars)
- Vasco da Gama: [http://www.bbc.co.uk/history/british/tudors/vasco_da_gama_01.shtml](http://www.bbc.co.uk/history/british/tudors/vasco_da_gama_01.shtml)
- Of Fanas and forecastles: the Indian Ocean and some lost languages of the Age of sail: [http://amitavghosh.com/blog/?p=5210](http://amitavghosh.com/blog/?p=5210)
- A Laskari lexicon: [http://amitavghosh.com/blog/?p=6004](http://amitavghosh.com/blog/?p=6004)
- Traders: the legacy of the East India Company: [http://www.rmg.co.uk/whats-on/exhibitions/traders/legacies-of-the-company](http://www.rmg.co.uk/whats-on/exhibitions/traders/legacies-of-the-company)
Explore further – extended reading

- Narrative of the shipwreck of captain Hamilton and the crew of the Sydney Cove: [http://gutenberg.net.au/ebooks13/1300541h.html](http://gutenberg.net.au/ebooks13/1300541h.html)
- More than a list of crew: [http://www.mun.ca/mha/mlc/seafarers/lascars/](http://www.mun.ca/mha/mlc/seafarers/lascars/)
- Open University's 'Making Britain' database of biographies: [http://www.open.ac.uk/researchprojects/makingbritain/content/about-database](http://www.open.ac.uk/researchprojects/makingbritain/content/about-database)

**Flower of Ugie – A global trading ship lost in the Solent in 182**

- Flower of Ugie – Maritime Archaeology Trust: [http://www.maritimearchaeologytrust.org/ugie](http://www.maritimearchaeologytrust.org/ugie)
- Cutty Sark, Royal Museums Greenwich: [http://www.rmg.co.uk/cuttysark](http://www.rmg.co.uk/cuttysark)
- Maritime Archaeology Trust, Flower of Ugie: [http://www.maritimearchaeologytrust.org/ugie](http://www.maritimearchaeologytrust.org/ugie)
- A brief video showing the Flower of Ugie: [https://www.youtube.com/watch?v=oAGcBJQ9fc&feature=youtu.be](https://www.youtube.com/watch?v=oAGcBJQ9fc&feature=youtu.be)

**Week 2 Summary**

**The archaeology of seafaring through the ages**

- The Archaeology of Seafaring through the ages: [https://www.southampton.ac.uk/seafaring_timeline/](https://www.southampton.ac.uk/seafaring_timeline/)

**Checking your understanding**

- N/A
Explore further – extended reading

The earliest seafarers

• The most primitive ancient 'reed boats' Article in TINA Maritime Archaeology Journal about reed boats by Osman Erkut. See p.72. [http://www.tinaturk.org/dergi/TINA_Periodical_1/html5forwebkit.html?page=0]

• 'Byzantine iPad' found in ancient shipwreck. News article from May 2014 by Rossella Lorenzi: [http://news.discovery.com/history/archaeology/byzantine-ipad-found-in-ancient-shipwreck-14051.htm]

The ancient Mediterranean and Indian Ocean


• Ancient Greece: a world in evolution. Animated map with voice over about Greek trade routes. [http://www.the-map-as-history.com/demos/tome09/1-ancient_greece_demo.php]

• New international mission ready to explore Antikythera shipwreck. New article from July 2014 by Margarita Pournara. [http://www.ekathimerini.com/4dcqi/w_articles_wsite4_1_09/07/2014_541168]

• Roman naval power: raising the ram. In this History Today article from 2011, Ann Natanson explains how a series of archaeological discoveries off the coast of Sicily reveal how Rome turned a piece of lethal naval technology pioneered by its enemy, Carthage, to its own advantage. [http://www.historytoday.com/ann-natanson/roman-naval-power-raising-ram]


• pill? Ancient Roman pills, preserved in sealed tin containers on the seafloor, may have been used as eye medicine by Joseph Stromberg, Smithsonian, January 7, 2013. [http://www.smithsonianmag.com/ist/?next=/science-nature/whats-inside-a-2000-year-old-shipwreck-preserved-roman-pill-403649/]

Mariners in the medieval world
Explore further – extended reading

- **Viking technology and planning.** Vikings might be thought of as marauding forces, but their technology and knowledge was extraordinary. It was their smarts, not their muscles, which made them successful. Video presented by Dr Patrick Wallace, National Museum of Ireland. (19:10) [http://www.open.edu/openlearn/body-mind/viking-technology-and-planning](http://www.open.edu/openlearn/body-mind/viking-technology-and-planning)

- **The Volga Vikings.** 45 minute podcast from *In Our Time* where Melvyn Bragg and his guests discuss the Volga Vikings. Between the 8th and the 10th centuries AD, fierce Scandinavian warriors raided and then settled large swathes of Europe, particularly Britain, Ireland and parts of Northern France. These were the Vikings, and their story is well known today. Fewer people realise that groups of Norsemen also travelled east. These Volga Vikings also known as the Rus, crossed the Baltic into present-day Russia and the Ukraine and funded settlements there. They traded commodities including furs and slaves for Islamic silver, and penetrated so far east as to reach Baghdad. Their activities were documented by Arab scholars: one Ahmadi ibn Fadlan, recorded that the Volga Vikings he met were perfect physical specimens but also “the filthiest of God’s creatures”. Through trade and culture they brought West and East into regular contact; their story sheds light on both Scandinavian and early Islamic history. [http://www.bbc.co.uk/podcasts/series/ioth/all](http://www.bbc.co.uk/podcasts/series/ioth/all)

- **Royal Museums Greenwich Vikings resources.** This set of resources has been written for teachers. [http://www.rmg.co.uk/schools/national-maritime-museum/resources/primary/vikings-support-materials](http://www.rmg.co.uk/schools/national-maritime-museum/resources/primary/vikings-support-materials)


- **We call them Vikings.** Two touring exhibitions about the legendary Vikings. The first exhibition is currently on tour in North America; the second exhibition is currently touring in Europe. [http://www.historiska.se/home/exhibitions/Touring-exhibitions/We-Call-Them-Vikings-en/](http://www.historiska.se/home/exhibitions/Touring-exhibitions/We-Call-Them-Vikings-en/)


- **The raising of the Mary Rose.** In this 2007 *History Today* article, David Childs argues that Mary Rose, the Tudor battleship which was raised from the depths in 1982,
represented the beginning of British naval greatness.

http://www.historytoday.com/david-childs/raising-mary-rose

- Alexander McKee, the man who found the Mary Rose remembered in bust. The man behind the raising of the Mary Rose has a permanent place on the ship - decades after defying his doubters. New article from April 2014.


- Mary Rose at Portsmouth Historic Dockyard Some Future Learners may wish to visit Mary Rose at Portsmouth Historic Dockyard.

http://www.historicdockyard.co.uk/maryrose/

- Archaeological excavations of Yuan dynasty’s sunken ship completed. Six photographs showing archaeological excavations of a sunken ship in Chaotang river of Ningbo City, Zhejiang province. News item from July 2014.

http://www.ecns.cn/visual/hd/2014/07-23/44047.shtml

- Sea stallion from Glendalough Watch a video about the Viking ship replica’s construction and first voyage. (3:03)

http://www.smithsonianmag.com/videos/category/history/sea-stallion-from-glendalough/

- Searching for Ribault’s shipwrecks. The search is on for what could be the oldest French shipwreck in the New World.


- Explorer believes he’s found great lakes’ oldest shipwreck. Short news article from July 2014, about Steve Libert’s search for Le Griffon.

http://www.haywardwi.com/news/regional/article_2194efc4-0e01-11e4-873a-0019bb2963f4.html

- Poole Swash Channel Wreck: Artefacts go on show. BBC news article from July 2014, including close up photographs of some of the artefacts that are on display.

http://www.bbc.co.uk/news/uk-england-28466526

- Shipwreck excavation may explain how 17th-century warship blew itself up. News article from The Guardian about how Cotswold Archaeology and local divers hope to solve the mystery of how the warship London sank off Southend. July 2014.

http://www.theguardian.com/science/2014/jul/25/shipwreck-excavation-17th-century-london-southend

In 1996, The History Channel ran a documentary series called “The Great Ships”, which featured an episode on “The Viking Ships” (and another on “The Pirate Ships”). Many key maritime archaeologists contributed to the series, so if you can obtain a copy, it is worth watching.
Global seafaring the Age of Sail

- Clip from BBC's Coast on solving longitude. Mark Horton investigates how Britain went about solving the big navigational question. (4:04). [http://www.bbc.co.uk/programmes/p0247mh7](http://www.bbc.co.uk/programmes/p0247mh7)
- The only remaining remnant from Napoleon's ship. This lightning rod may have protected Napoleon and his crew from nature, but it couldn't protect them from the British. (2:03) [http://www.smithsonianmag.com/videos/category/history/the-only-remaining-remnant-from-napoleons-ship/](http://www.smithsonianmag.com/videos/category/history/the-only-remaining-remnant-from-napoleons-ship/)

Miscellaneous
Explore further – extended reading

- Reconstructing famous ships. This BBC website by Barrie Andrian is from 2005. It includes information about a variety of reconstructed ships. [http://www.bbc.co.uk/history/trail/archaeology/experimental/reconstructing_ships_01.shtml](http://www.bbc.co.uk/history/trail/archaeology/experimental/reconstructing_ships_01.shtml)
- Three news stories relating to the sale of a collection of over 1700 photographs of shipwrecks on the coast of Cornwall and the Isles of Scilly:
  - Cornwall shipwrecks collection up for auction: [http://www.bbc.co.uk/news/uk-england-24623410](http://www.bbc.co.uk/news/uk-england-24623410)
  - Cornwall shipwreck collection sold to museum: [http://www.bbc.co.uk/news/uk-england-24909414](http://www.bbc.co.uk/news/uk-england-24909414)
  - Salvaged: the extraordinary family collection that turned wrecks into art: [http://www.independent.co.uk/news/uk/this-britain/salvaged-the-extraordinary-family-album-that-turned-wrecks-into-art-8937879.html](http://www.independent.co.uk/news/uk/this-britain/salvaged-the-extraordinary-family-album-that-turned-wrecks-into-art-8937879.html)
- History's 10 greatest wrecks… according to *Archaeology*. Many of the wrecks described in this article are covered in this course. Do you agree with the list? [http://www.archaeology.org/issues/86-features/632-shipwrecks-titanic-mary-rose-vasa-spanish-armada-monitor-hunley](http://www.archaeology.org/issues/86-features/632-shipwrecks-titanic-mary-rose-vasa-spanish-armada-monitor-hunley)
- Thunder Bay National Marine Sanctuary. The shipwrecks of Thunder Bay constitute a microcosm of the Great Lakes commercial shipping industry spanning the last two hundred years. The collection reflects transitions in ship architecture and construction, from wooden schooners to early steel-hulled steamers, as well as several unusual vessel types. [http://thunderbay.noaa.gov/shipwrecks/welcome.html](http://thunderbay.noaa.gov/shipwrecks/welcome.html)

Explore further – extended reading [Advanced]

The earliest seafarers

Explore further – extended reading

- High Precision U/Th Dating of First Polynesian Settlement

- Archaeological Support for the Three-Stage Expansion of Modern Humans across Northeastern Eurasia and into the Americas
  Open Access article from August 2010 on PLOSone by Marcus J. Hamilton & Briggs Buchanan.

- A three-stage colonization model for the peopling of the Americas
  Open Access article from February 2008 on PLOSone by Andrew Kitchen, Michael M. Miyamoto & Connie J. Mulligan.

The ancient Mediterranean and Indian Ocean

- The Sea Peoples, from Cuneiform Tablets to Carbon Dating
  Open Access article from June 2011 on PLOSone by David Kaniewski et al.

- The INA Annual 2008. This Annual includes a number of articles relating to the Phoenicians, which may be of interest to you.

Mariners in the medieval world

- The Vikings' Bad Boy Reputation is back with a vengeance. A major new exhibition is reviving the Norse seafarers' iconic image as rampagers and pillagers by Franz Lidz in Smithsonian Magazine, March 2014.

- A Viking mystery. Beneath Oxford University, archaeologists have uncovered a medieval city that altered the course of English history by David Keys in Smithsonian Magazine, October 2010.

- Raiders or traders? A replica Viking vessel sailing the North Sea has helped archaeologists figure out what the stalwart Norsemen were really up to by Andrew Curry in Smithsonian Magazine, July 2008
  [http://www.smithsonianmag.com/history/raiders-or-traders-52803648/](http://www.smithsonianmag.com/history/raiders-or-traders-52803648/)

- Viking Age iconography and the square sail. Browse to page 8 to read this article.
Explore further – extended reading


- Elizabethan merchant ships and shipbuilding. Elizabeth's galleons and other warships have attracted much attention, but a strong and diverse shipbuilding capability and merchant fleet were the foundations of Tudor seapower. This hour-long lecture by Dr Ian Friel not only covers the technological, organisational, economic and operational side of ships and shipbuilding, but also looks at the human realities of seafaring life in the period. [http://www.gresham.ac.uk/lectures-and-events/elizabethan-merchant-ships-and-shipbuilding](http://www.gresham.ac.uk/lectures-and-events/elizabethan-merchant-ships-and-shipbuilding)

Global seafaring in the Age of Sail

- The last days of Blackbeard. An exclusive account of the final raid and political maneuvers of history's most notorious pirate by Colin Woodard in *Smithsonian Magazine* February 2014. [http://www.smithsonianmag.com/history/last-days-blackbeard-180949440/?all&no-ist](http://www.smithsonianmag.com/history/last-days-blackbeard-180949440/?all&no-ist)


• The Greenlanders - Arctic whaleships and whalers. From 1750 to the early 20th century, fleets of 'Greenlanders' – specially strengthened sailing ships – headed north each spring from Britain to the ice-filled Arctic seas between Canada, Greenland and Spitsbergen. Their business was whaling, their purpose to bring home oil and whalebone – raw materials for Britain's growing industries. Arctic whaling involved more than 9000 voyages from 35 British ports: Rotherhith's 'Greenland Dock' is a reminder that London was a prominent whaling port. Each voyage involved dangers unique to the trade, demanding extraordinary measures of skills and seamanship. Dr Stonehouse tells of the ships, the men, and the profits and losses of a long-forgotten industry in this 51 minute long lecture. http://www.gresham.ac.uk/lectures-and-events/the-greenlanders-arctic-whaleships-and-whalers

• The hunt for the lost ships of the Franklin expedition from *Canadian Geographic*. This is a detailed website with lots of information. http://www.canadiangeographic.ca/franklin-expedition/location-of-franklin-ships-theories-article.asp


• The Dutch East Indies Company - The First 100 Years. An hour-long lecture by Dr Thomas Crump. In the first hundred years, by facing off all its European rivals - where necessary by force of arms - the company brought unprecedented wealth to the Netherlands. http://www.gresham.ac.uk/lectures-and-events/the-dutch-east-indies-company-the-first-100-years

• The Dutch East Indies Company - The Second 100 Years. This hour-long lecture focuses on the VOC's second hundred years and will explain how it slowly lost out on almost everything it had gained, to become bankrupt by the end of the 18th century - ending a remarkable period in the history of European colonialism. (Transcript available). http://www.gresham.ac.uk/lectures-and-events/the-dutch-east-indies-company-the-second-100-years
Explore further – extended reading

Academia.edu

- Global origins of seafaring by Helen Farr.  
  [https://www.academia.edu/1900366/Global_origins_of_seafaring](https://www.academia.edu/1900366/Global_origins_of_seafaring)

- Seafaring as social action by Helen Farr.  
  [https://www.academia.edu/293111/Seafaring_As_Social_Action](https://www.academia.edu/293111/Seafaring_As_Social_Action)

- In Response to Pedersen's 'A Clench-Fastened Boat In Kerala': a Revealing Boat Narrative Not a 'New' Type of Boat by Jesse Ransley.  
  [https://www.academia.edu/358074/In_Response_to_Pedersens_A_Clench-Fastened_Boat_In_Kerala_a_Revealing_Boat_Narrative_Not_a_NewType_of_Boat](https://www.academia.edu/358074/In_Response_to_Pedersens_A_Clench-Fastened_Boat_In_Kerala_a_Revealing_Boat_Narrative_Not_a_NewType_of_Boat)

- Maritime Technological Change in the Ancient World: The invention of the lateen sail. Volume One by Julian Whitewright.  
  [https://www.academia.edu/562936/Maritime_Technological_Change_in_the_Ancient_World_The_invention_of_the_lateen_sail_Volume_One](https://www.academia.edu/562936/Maritime_Technological_Change_in_the_Ancient_World_The_invention_of_the_lateen_sail_Volume_One)

- Maritime Technological Change in the Ancient World: The invention of the lateen sail. Volume Two by Julian Whitewright.  
  [https://www.academia.edu/562943/Maritime_Technological_Change_in_the_Ancient_World_The_invention_of_the_lateen_sail_Volume_Two](https://www.academia.edu/562943/Maritime_Technological_Change_in_the_Ancient_World_The_invention_of_the_lateen_sail_Volume_Two)

- The Potential Performance of Ancient Mediterranean Sailing Rigs by Julian Whitewright.  
  [https://www.academia.edu/490286/The_Potential_Performance_of_Ancient_Mediterranean_Sailing_Rigs](https://www.academia.edu/490286/The_Potential_Performance_of_Ancient_Mediterranean_Sailing_Rigs)

- The Mediterranean Lateen Sail in Late Antiquity by Julian Whitewright.  
  [https://www.academia.edu/490294/The_Mediterranean_Lateen_Sail_in_Late_Antiquity](https://www.academia.edu/490294/The_Mediterranean_Lateen_Sail_in_Late_Antiquity)

- A Roman Type IVB Wooden Anchor Found in the Corfu Channel, Albania by Peter B. Campbell.  
  [https://www.academia.edu/1875595/A_Roman_Type_IVB_Wooden_Anchor_Found_in_the_Corfu_Channel_Albania](https://www.academia.edu/1875595/A_Roman_Type_IVB_Wooden_Anchor_Found_in_the_Corfu_Channel_Albania)

- Roman rigging material from the Red Sea port of Myos Hormos by Julian Whitewright.  
  [https://www.academia.edu/490285/Roman_rigging_material_from_the_Red_Sea_port_of_Myos_Hormos](https://www.academia.edu/490285/Roman_rigging_material_from_the_Red_Sea_port_of_Myos_Hormos)

- Tracing Technology: The material culture of maritime technology in the Ancient Mediterranean and Contemporary Indian Ocean by Julian Whitewright.  
  [https://www.academia.edu/490287/Tracing_Technology_The_material_culture_of_maritime_technology_in_the_Ancient_Mediterranean_and_Contemporary_Indian_Ocean](https://www.academia.edu/490287/Tracing_Technology_The_material_culture_of_maritime_technology_in_the_Ancient_Mediterranean_and_Contemporary_Indian_Ocean)

- Sailing with the Mu'allim: The technical practice of sailing in the Medieval Red Sea by Julian Whitewright.  
  [https://www.academia.edu/1596776/Sailing_with_the_Muallim_The_technical_practice_of_sailing_in_the_Medieval_Red_Sea](https://www.academia.edu/1596776/Sailing_with_the_Muallim_The_technical_practice_of_sailing_in_the_Medieval_Red_Sea)
Explore further – extended reading

- Early Islamic Maritime Technology by Julian Whitewright. https://www.academia.edu/1596791/Early_Islamic_Maritime_Technology

Mid course review – we want to hear from you

- N/A

What's coming up next week?

- N/A