

Week 4: Doing Maritime Archaeology

This document brings together all of the links shared in the course during Week 4, in one convenient location. Links to educator and facilitator profiles are only listed once.

Welcome to Week 4

Welcome to Week 4

- Progress page: <https://www.futurelearn.com/courses/shipwrecks/progress>

Doing Maritime Archaeology

How do you do Maritime Archaeology?

- N/A

The practice of Maritime Archaeology

- N/A

What is this and what does it do?

- N/A

Studying maritime traditions and skills

- Traditional boats of Ireland project: <http://www.tradboats.ie/>
- Traditional maritime skills: <http://www.boat-building.org/learn-skills/index.php/en/home-en/>
- Maritime communities and traditions: <http://www.oxfordhandbooks.com/view/10.1093/oxfordhb/9780195375176.001.0001/oxfordhb-9780195375176-e-38>
- FRAUG 2014, starting to dialogue between archaeologist and boat builder: <http://maritimearchaeologyblog.wordpress.com/2014/05/12/fracug-2014-starting-the-dialogue-between-archaeologist-and-boat-builder/>

Studying boat building traditions

Explore further – extended reading

- Traditional boats of the world: <http://www.chineblog.com/traditional-boats-of-the-world/>

Discoveries from maritime excavation

Tybrind Vig, Denmark

- Making cordage by hand by Norm Kidder: <http://www.primitiveways.com/cordage.html>
- Anaerobic: <http://www.archaeologywordsmith.com/lookup.php?category=&where=headword&terms=aerobic>
- Moesgaard Museum: <http://www.moesgaardmuseum.dk/english/>
- Excavating submerged Stone Age sites in Denmark – the Tybrind Vig example: <http://www.abc.se/~pa/publ/tybrind.htm> Detailed information with a lengthy reference section by Torben Malm.
- Danish prehistory - the boat: http://www.denstoredanske.dk/danmarks_olddid/stenalder/det_rige_land_6.400-4.000_f.kr/b%a5den If you speak Danish, you may find this site interesting.
- Submerged Prehistory (2011) edited by Benjamin et al, Oxbow Books: http://www.researchgate.net/publication/256460373_submerged_prehistory If you would like to study submerged landscapes in greater depth, the authors of this book have made it available for free download on Researchgate. (It may suggest that you log in, but you should be able to access the book for free without logging in).
- Submerged prehistoric archaeology and landscapes of the continental shelf (SPLASHCOS): <http://www.splashcos.org/> SPLASHCOS - Submerged Prehistoric Archaeology and Landscapes of the Continental Shelf - is a four-year research network (2009 to 2013) funded by the European Commission under its COST program (Cooperation in Science and Technology) as COST Action TD0902. Its aim is to bring together archaeologists, marine geoscientists, heritage agencies, and commercial and industrial organisations interested in researching, managing and preserving the archives of archaeological and palaeoclimatic information locked up on the drowned

Explore further – extended reading

prehistoric landscapes of the European continental shelf, and to disseminate that knowledge to a wider audience.

- Humanity and a million years of sea level change:
<http://www.gresham.ac.uk/lectures-and-events/humanity-and-a-million-years-of-sea-level-change> Video lecture (51:51) by Dr Nicholas Flemming (University of Southampton) at Gresham College - transcript available.
- Submerged landscapes and the underwater cultural heritage, WG SUBLAND:
<http://www.marineboard.eu/submerged-landscapes?> European Marine Board has launched a working group, WG SUBLAND, specifically targeted at the development of collaborative mutual knowledge between marine and social scientists to deliver an improved understanding of past human response to sea level change, and hence improved modeling of interactions between society, economy and environment. The long-term perspective supplied by integrated multidisciplinary studies, is capable of bringing important new insights of future scenarios and the social impact of sea-level and climate change.
- Research project: Bova Marina Maritime Project:
http://www.southampton.ac.uk/archaeology/research/projects/bova_marina_maritime_project.page The Bova Marina Maritime Project is a multidisciplinary collaboration between archaeologists, oceanographers and earth scientists working on the coast and near offshore zone in southern Calabria, Italy.
- Must Farm: <http://www.mustfarm.com/> The Must Farm project is the first landscape scale archaeological investigation of deep Fenland. Its exploration of deeply buried deposits is transforming our understanding of prehistoric life and revealing a level of preservation previously only dreamt about.
- Unearthing the past: <http://www.strideguides.com/unearthingthepast/web-content/index.html> A series of long-term excavation programmes have been carried out in Hanson's quarries by the Cambridge Archaeological Unit, often involving a decade or more of fieldwork. However, access to the sites is usually restricted due to safety concerns, and the scientific literature the work generates can often seem daunting. The aim of this website is to make the results more widely available to the public, especially schools (though a further reading list is provided).
- Cambridge Archaeological Unit: <http://www-cau.arch.cam.ac.uk/index.htm> Examples of different submerged and coastal landscape projects.
- Prehistoric archaeology on the continental shelf [Advanced]:
<http://www.springer.com/social+sciences/anthropology+%26+archaeology/bo>

Explore further – extended reading

[ok/978-1-4614-9634-2](http://dx.doi.org/10.1017/9781461496342) If you want to explore this topic in more depth, it may be possible to obtain a copy of this book

Cape Gelidonya, Turkey (1200BC)

- Peter Throckmorton: http://nauticalarch.org/about/key_figures/peter_throckmorton/
- Cape Gelidonya: http://en.wikipedia.org/wiki/Cape_Gelidonya
- George Bass: http://nauticalarch.org/about/key_figures/bass/
- Frederick Dumas: http://en.wikipedia.org/wiki/Fr%C3%A9d%C3%A9ric_Dumas
- Honor Frost: <http://honorfrostfoundation.org/index.php/honor-frost/>
- Mycenae: <http://en.wikipedia.org/wiki/Mycenae>
- Canaan: <http://en.wikipedia.org/wiki/Canaan>
- Cape Gelidonya and the humble beginnings of nautical archaeology: <http://nautarch.tamu.edu/class/316/gelidonya/>
- INA Cape Gelidonya project blog: <http://nauticalarch.org/blogs/cape-gelidonya-project/>
- INA information on Cape Gelidonya: http://nauticalarch.org/projects/all/southern_europe_mediterranean_aegean/cape_gelidonya_turkey/introduction/

The Grace Dieu, England (1439)

- Newport Ship, Newport Museums and Heritage Service: <http://www.newport.gov.uk/heritage/index.cfm/ship/>

Torrey Canyon, England (1967)

- Torrey Canyon seabed return to normal after oil spill: <http://www.bbc.co.uk/news/science-environment-13280507>
- Torrey Canyon wreck reclaimed by sea: <http://www.bbc.co.uk/news/science-environment-13280509>
- Torrey Canyon wreck site information: <http://www.wrecksite.eu/wreck.aspx?594>

Explore further – extended reading

Maritime Archaeology at risk

The world's heritage – maritime archaeology at risk

- UNESCO 2001 Convention on the Protection of the Underwater Cultural Heritage: http://www.ioc-unesco.org/index.php?option=com_content&view=article&id=83:underwater-cultural-heritage&catid=14:in-focus&Itemid=100063
- Environmental impact assessment: http://en.wikipedia.org/wiki/Environmental_impact_assessment
- Integrated coastal zone management plan: <http://ec.europa.eu/environment/iczm/home.htm>

UNESCO convention on the protection of underwater cultural heritage

- Who owns the Santa Maria? Shipwrecks and the UNESCO 2001 convention by Robert F. Mackintosh. Blog post from May 2014 on Christopher Columbus flagship the Santa Maria potentially being found in Haiti: <http://lovearchmag.tumblr.com/post/86235257255/who-owns-the-santa-maria-shipwrecks-and-the-unesco>
- Full text of 2001 convention: <http://www.unesco.org/new/en/culture/themes/underwater-cultural-heritage/2001-convention/official-text/>
- UNESCO underwater cultural heritage page: <http://www.unesco.org/new/en/culture/themes/underwater-cultural-heritage/>
- List of states parties: <http://www.unesco.org/eri/la/convention.asp?KO=13520&language=E&order=alpha>
- More information on UNCLOS: http://www.un.org/depts/los/convention_agreements/convention_overview_convention.htm
- Full text of UNCLOS: http://www.un.org/depts/los/convention_agreements/texts/unclos/unclos_e.pdf

Explore further – extended reading

- ICOMOS 1996 Charter on the Protection and Management of Underwater Cultural heritage:
http://www.international.icomos.org/charters/underwater_e.pdf
- Grenier, R., Nutley, D. & Cochran I. (eds) (2006) Heritage at risk: special edition. Underwater cultural heritage at risk: managing natural and human impacts. ICOMOS. <http://www.icomos.org/en/get-involved/inform-us/heritage-alert/heritage-at-risk-reports/116-english-categories/resources/publications/215-heritage-at-risk-special-edition-2006-underwater-cultural-heritage>
- Henderson, G. & Viduka, A. (eds.) (2014) Towards ratification: papers from the 2013 AIMA conference workshop. Australian Institute for Maritime Archaeology:
http://www.unesco.org/new/fileadmin/MULTIMEDIA/HQ/CLT/pdf/UCH_AIM_A_2013.pdf
- Maarleveld, T.J., Guerin, U. & Egger, B. (2011) UNESCO manual for activities directed at underwater cultural heritage: a guide on the rules annexed to the UNESCO 2001 convention on the protection of underwater cultural heritage.
<http://www.unesco.org/culture/en/underwater/pdf/UCH-Manual.pdf>
- UK UNESCO 2001 convention review group (2014) the UNESCO convention on the protection of the underwater cultural heritage 2001: an impact review for the United Kingdom:
[http://www.unesco.org.uk/convention_on_the_protection_of_the_underwater_cultural_heritage_\(2001\)](http://www.unesco.org.uk/convention_on_the_protection_of_the_underwater_cultural_heritage_(2001))
- Yorke, R. (ed.) (2006). The UNESCO convention for the protection of the underwater cultural heritage: proceedings of the Burlington House seminar October 2005. Joint nautical archaeology policy committee:
http://www.gc.noaa.gov/documents/gcil_heritage2_burlington.pdf
- Yorke, r. (ed.) (2011). Protection of underwater cultural heritage in international waters adjacent to the UK: proceedings of the INAPC 21st anniversary seminar, Burlington House, November 2010. Joint nautical archaeology policy committee.: <http://www.jnipc.org.uk/UNESCO-Seminar-2010-final.pdf>

Treasure hunting, looting, and the illicit trade in antiquities

Explore further – extended reading

- How crime, corruption and murder are hidden in the elusive black market stages of antiquities trafficking:
<http://blog.soton.ac.uk/archaeology/blog/2013/07/antiquities-trafficking/>
- Odyssey Marine Exploration, Inc. v. The unidentified shipwrecked vessel, Document 364: <http://legaltimes.typepad.com/files/odyssey.pdf>
- National Underwater Museum, Spain: <http://en.museoarqua.mcu.es/>
- Most complete Ice Age skeleton helps solve mystery of first Americans:
<http://news.nationalgeographic.com/news/2014/05/140515-skeleton-ice-age-mexico-cave-hoyo-negro-archaeology/>
- Bones of early American disappear from underwater:
<http://www.newscientist.com/article/dn21741-bones-of-early-american-disappear-from-underwater-cave.html#.VCwNuSldVB8>
- Treasure hunting is the world's worst investment:
<http://www.bloombergtview.com/articles/2014-05-07/treasure-hunting-is-the-world-s-worst-investment>
- The illicit antiquities trade as a transnational criminal network:
https://www.academia.edu/4146904/The_Illicit_Antiquities_Trade_as_a_Transnational_Criminal_Network_Characterizing_and_Anticipating_Trafficking_of_Cultural_Heritage
- A critique of the fundamentals of the 'commercial salvage' model of the excavation of historic shipwrecks: an examination of profitability of six commercial salvage ventures: <http://www.sha.org/documents/TechBreifs.pdf>
- Going, going, gone: underwater cultural resources in decline:
http://link.springer.com/chapter/10.1007/978-0-387-72071-5_7#page-1
- Treasure salvage, archaeological ethics and maritime museums:
<http://onlinelibrary.wiley.com/doi/10.1111/j.1095-9270.1993.tb00391.x/abstract>
- Secrets of the deep: the dispute over what may be the biggest sunken treasure ever found: <http://www.newyorker.com/magazine/2008/04/07/secrets-of-the-deep?currentPage=all>
- Illicitantiquities.com ...and underwater:
<http://www.illicitantiquities.com/nature/underwater/>
- Investors fume over treasure hunter:
<http://www.capecodonline.com/apps/pbcs.dll/article?AID=/20140309/NEWS/403090353>

Explore further – extended reading

- Deaccessioning archaeological collections and selling artifacts:
<http://www.acuaonline.org/deep-thoughts/deaccessioning-archaeological-collections-and-selling-artifacts/>

Excavation vs. Preservation

Excavation or preservation in-situ

- An introduction to marine archaeology by Colin Martin (BBC):
http://www.bbc.co.uk/history/ancient/archaeology/marine_01.shtml
- Rigorous reasoning, reflexive research and the space for 'alternative archaeologies'. Questions for maritime archaeological heritage management.
<http://onlinelibrary.wiley.com/enhanced/doi/10.1111/j.1095-9270.2007.00148.x/>

Digging into archives

- The standard and guide to best practice in archaeological archiving in Europe:
<http://archaeologydataservice.ac.uk/arches/Wiki.jsp?page=The%20Standard%20and%20Guide%20to%20Best%20Practice%20in%20Archaeological%20Archiving%20in%20Europe>
- Archaeological Archives – A guide to best practice in creation, compilation, transfer and curation:
http://www.archaeologyuk.org/archives/Archives_Best_Practice.pdf
- ARCHES 4. Selection and retention of finds:
<http://archaeologydataservice.ac.uk/arches/Wiki.jsp?page=Selection%20and%20retention>
- The Vasa Museum: <http://www.vasamuseet.se/en/>
- The Mary Rose Museum: <http://www.maryrose.org/>
- Western Australian Museum Maritime Shipwrecks:
<http://museum.wa.gov.au/research/collections/batavia/maritime-shipwrecks>
- Methods of conserving archaeological material from underwater sites by Donny L. Hamilton: <http://nautarch.tamu.edu/CRL/conservationmanual/>
- Preservation and management strategies for exceptionally large data formats: 'Big data': <http://archaeologydataservice.ac.uk/research/bigData>
- Maritime Archaeology Trust MAA Elements:
<http://www.maritimearchaeologytrust.org/mmaelements>

Explore further – extended reading

- Maritime Archaeology Trust's *Invincible* (1758) site viewer: <http://www.maritimearchaeologytrust.org/mapguide/invincible/main.php>
- Uluburun: <http://sara.theellisschool.org/~shipwreck/shipwreck.html>
- Western Australian Museum Shipwreck databases: <http://museum.wa.gov.au/maritime-archaeology-db/wrecks>
- Bureau of Ocean Energy Management Shipwrecks off Alaska's coast: <http://www.boem.gov/Alaska-Coast-Shipwrecks/>

Professional, amateur or archaeology for all?

- Nautical Archaeology Society: <http://www.nauticalarchaeologysociety.org/>
- Gresham ship: <http://www.stoneycove.com/the-gresham-ship.html>
- Rigorous reasoning, reflexive research and the space for 'alternative archaeologies'. Questions for maritime archaeological heritage management. <http://onlinelibrary.wiley.com/enhanced/doi/10.1111/j.1095-9270.2007.00148.x/>
- Florida Public Archaeology Network: <http://www.flpublicarchaeology.org/>

Discoveries from maritime excavations: 'Amateur'

- Cornwall and Isles of Scilly Maritime Archaeology Society (CISMAS): <http://www.cismas.org.uk/>
- Protection of Wrecks Act 1973: <http://www.legislation.gov.uk/ukpga/1973/33>
- HMS Colossus Overview (CISMAS): http://www.cismas.org.uk/colossus_overview.php
- Visiting and looking after protected wreck sites: <http://www.english-heritage.org.uk/discover/maritime/visiting-protected-wreck-sites/>
- Shipwreck historian and diver – Todd Stevens: <http://www.toddstevens.co.uk/>
- Cornwall and Isles of Scilly Maritime Archaeology Society (CISMAS): <http://www.cismas.org.uk/>
- HMS Colossus dive trail (CISMAS): <http://www.cismas.org.uk/colossus-dive-trail.php>
- HMS Colossus Isles of Scilly 2007 English Heritage Final Management plan: <https://www.english-heritage.org.uk/content/imported-docs/f-j/hmscolossusmanagementplanfinalseptember2007.pdf>
- The loss of Man o'war Colossus 1798, Isles of Scilly Museum: <http://www.iosmuseum.org/newprojects.html>

Explore further – extended reading

- Danielle Newman: <https://www.futurelearn.com/profiles/283955>
- **Warrior emerges from island shipwreck** – BBC news article from June 2001. A unique wooden statue of a warrior has been found close to a 200-year-old shipwreck off the Isles of Scilly: <http://news.bbc.co.uk/1/hi/uk/1399312.stm>
- Heather's new and improved chart of the Isles of Scilly – Full version of the map that allows you to zoom: <http://maps.bpl.org/id/14729>
- 2006 HMS Colossus Archaeological Report for English Heritage by Wessex Archaeology – Wessex Archaeology was commissioned by English Heritage to undertake a designated site assessment of HMS Colossus: A designated wreck site located within St Mary's Road in the Isles of Scilly. The work was undertaken as part of the Contract for Archaeological Services in Relation to the Protection of Wrecks Act (1973): https://www.english-heritage.org.uk/content/imported-docs/a-e/colossus_archaeological_report_final_version_figs.pdf
- 2007 HMS Colossus, Isles of Scilly Conservation and Heritage Management Report by Mark Dunkley – A list of nine policies: <https://www.english-heritage.org.uk/content/imported-docs/f-j/hmscolossusmanagementplanfinalseptember2007.pdf>
- Cornwall and Isles of Scilly Maritime Archaeology Society HMS Colossus overview – This detailed overview includes a wide variety of images: http://www.cismas.org.uk/colossus_overview.php
- Cornwall and Isles of Scilly Maritime Archaeology Society Project Reports – length list of reports that can be downloaded: <http://www.cismas.org.uk/downloads.php>
- Valhalla Museum – If you are interested in other shipwrecks off the Isles of Scilly, you may want to read about the unique Valhalla collection, which is situated within Tresco Abbey Garden. It contains some 30 figureheads, as well as name boards and other decorative ships' carvings from the days of sail: <http://www.tresco.co.uk/the-island/valhalla-museum/>
- Scillydiver blog post about HMS Colossus – Includes discussion about possible finding of HMS Colossus' anchor: <http://scillydivers.blogspot.co.uk/p/wreck-of-hms-colossus.html>
- Divers Say They've Found Lost Anchor From HMS Colossus In Scilly – News story from July 2013: <http://www.scillytoday.com/2013/07/15/divers-say-theyve-found-lost-anchor-from-hms-colossus-in-scilly/>

Explore further – extended reading

The future of Maritime Archaeology

- Honor Frost Foundation: <http://honorfrostfoundation.org/>
- UNESCO Unitwin Underwater Archaeology Network: <http://www.underwaterarchaeology.net/>
- Nautical Archaeological Society: <http://www.nauticalarchaeologysociety.org/>
- Woods Hole Oceanographic Institution, autonomous underwater vehicles: <http://www.whoi.edu/main/auvs>
- Are you ready for redbreathers, Scuba Diving: <http://www.scubadiving.com/training/basic-skills/are-you-ready-rebreathers>
- Underwater archaeology: Hunt for the ancient mariner: <http://www.nature.com/news/underwater-archaeology-hunt-for-the-ancient-mariner-1.9880>
- The rise of 3-D printing in archaeology: <http://acrg.soton.ac.uk/blog/3790/>
- Southampton Marine and Maritime Institute: <http://www.southampton.ac.uk/smmi>
- MicroPasts – a community platform for conducting , designing and funding research into our human past: <http://micropasts.org/>
- Big Anchor Project: <http://www.biganchorproject.com/>
- Maritime Archaeology website: <http://maritimearchaeology.com/>
- Going, going, gone: Underwater Cultural Resources in Decline: http://link.springer.com/chapter/10.1007/978-0-387-72071-5_7
- Study reveals looting of archaeological sites as massive global problem: <http://popular-archaeology.com/issue/december-2012/article/study-reveals-looting-of-archaeological-sites-as-massive-global-problem>
- BBC clip – City Beneath the Waves: Pavlopetri: <http://www.bbc.co.uk/programmes/b015yh6f>
- RMPNF Projects – A naval battle landscape, First Punic War – 241 BCE: Battle of the Egadi Islands: <http://rpmnautical.org/battlelandscape.html>
- Aquabots to Explore Ancient Wreck: <http://archive.wired.com/culture/lifestyle/news/2003/07/59651?currentPage=all>
- Ghost ship: resurrection: <https://natgeotv.com/uk/ghost-ship-resurrection>
- National Geographic – 5 shipwrecks lost to time that archaeologists would love to get their hands on:

Explore further – extended reading

<http://news.nationalgeographic.com/news/2014/03/140324-ancient-shipwrecks-search-warship-underwater-archaeology-science/>

- National Geographic – Evidence of Viking outpost found in Canada:
<http://news.nationalgeographic.com/news/2012/10/121019-viking-outpost-second-new-canada-science-sutherland/>
- Zheng He: http://en.wikipedia.org/wiki/Zheng_He
- Bradshaw Foundation – Cosquer, the cave beneath the sea:
<http://www.bradshawfoundation.com/cosquer/>
- Opinion: More archaeological finds coming through tech:
<http://news.discovery.com/history/archaeology/more-archaeological-finds-coming-through-tech-141004.htm>

Week 4 summary

Checking your understanding

- N/A

Google Hangout on Ethics

- To find out more about Google hangouts on air visit:
<http://www.google.com/+/learnmore/hangouts/onair.html>

Explore further – extended reading Doing Maritime Archaeology

- Nautical Archaeology Society Training. NABS divers practising underwater archaeology techniques on the *City of Washington* shipwreck. An insight into the actual work underwater archaeologists have to do.
http://www.youtube.com/watch?v=ObWHL5GXs58&list=PL_CJ_PrQDbAVgHqM-mLbnATFAM13Z02bm
- Naked scientists interview with Dave Parham about studying shipwrecks. Interview as part of the show 'Underwater Archaeology and Underwater Welding'.
<http://www.thenakedscientists.com/HTML/content/interviews/interview/1885/>
- An interview with Graham Scott, Wessex Archaeology about working as a Maritime Archaeologist. <http://ets.wessexarch.co.uk/resources/marinecareers/maritime-archaeologist/>

Explore further – extended reading

- The Maritime Archaeology Trust has created resources that allow you to experience wreck diving without getting wet:
 - A2S (Atlas to the Seas) Mystery Wreck Virtual Dive (Wreck research project from maritime Archaeology Trust)
http://maritimearchaeologytrust.org/mapguide/a2s_mystery_wreck/main.php
 - Explore HMS Invincible (1758)
<http://www.maritimearchaeologytrust.org/mapguide/invincible/main.php>
 - Explore SS Braedale (1932)
<http://www.maritimearchaeologytrust.org/mapguide/braedale/main.php>
- Seafloor explorer game. Discover the different fieldwork techniques used by geologists, ecologists and archaeologists to explore the seafloor, and have a go yourself. <http://ets.wessexarch.co.uk/resources/seafloor-explorer-game/>
- Britain must dig deeper to save its archaeology. News article from *The Independent* by Kitty Knowles, July 2014, about how archaeology as a profession may go under. <http://www.independent.co.uk/news/science/archaeology/news/britain-must-dig-deeper-to-save-its-archaeology-9602435.html>
- Long-lost anchor may soon give up its secrets <http://news.yahoo.com/long-lost-anchor-may-soon-secrets-115300346.html>
- Exploring an aircraft wreck. What evidence can you find on the seafloor for World War II? (3:20)
<https://www.youtube.com/watch?v=LbzPsklg4zw&list=UUkGLrMy2aotUuRFZsDYZrwA>

Discoveries from maritime excavations

- Two news stories about the World Trade Center ship:
 - Tree rings solve mystery of World Trade Center ship:
<http://news.discovery.com/history/archaeology/tree-rings-solve-mystery-of-world-trade-center-ship-140728.htm>
 - Origins of mysterious World Trade Center ship revealed:
<http://www.livescience.com/47026-origins-world-trade-center-ship.html>
- The Naval History and Heritage Command Underwater Archaeology Lab Artifacts. 3 minute slide show.
https://www.youtube.com/watch?v=Z8nKHLszJ9s&list=PL_CJ_PrQDbAVgHqM-mLbnATFAM13Z02bm
- Underwater archaeology in Pensacola Bay. Researchers from the University of West Florida are slowly uncovering the remains of a 16th-century shipwreck of a Spanish galleon in the shallow, murky waters near Pensacola (4:07)
<http://www.smithsonianmag.com/ist/?next=/videos/category/history/underwater-archaeology-in-pensacola-bay/>

Explore further – extended reading

- Clip from BBC's *Coast* on what caused the *Yongala* to sink. In this extract, Xanthe Mallett dives to see the *Yongala* in search of answer about what caused it to sink. (1:44) <http://www.bbc.co.uk/programmes/p01z9b9j>
- Diving for the secrets of the battle of the Atlantic. Off the coast of North Carolina lie dozens of shipwrecks, reminders of a forgotten theater of World War II by Jim Morrison, *Smithsonian*, January 18, 2012. <http://www.smithsonianmag.com/history/diving-for-the-secrets-of-the-battle-of-the-atlantic-22068710/>
- Clip from BBC's *Coast* on the spoils of war. Nick Hewitt visits a submerged German U-boat near Medway - not sunk during battle, but sold for scrap after World War I. (3:16) <http://www.bbc.co.uk/programmes/p018gj0r>

Maritime Archaeology at risk

- UNESCO focuses on protection of underwater cultural heritage. News article from July 2014. <http://m.sknvibes.com/news/newsdetails.cfm/88307>
- What is underwater cultural heritage and why does it matter? By Elizabeth S. Greene. Browse to page 8 to read this article. <http://issuu.com/instituteofnauticalarchaeology/docs/inaq2012-39-34-04-2014>
- The marine historic environment - English Heritage. Link to information from English Heritage about its records of over 40 000 wreck sites and its interactive wreck site map. <http://www.english-heritage.org.uk/professional/research/coastal-and-maritime/marine-historic-environment/>
- Map of designated sites in the UK - English Heritage. Link to 61 designated sites. <http://www.english-heritage.org.uk/discover/maritime/map/>
- Finding treasure. Open University resource about what people should do with treasure trove. <http://www.open.edu/openlearn/history-the-arts/history/heritage/finding-treasure>
- Raiders of the lost wrecks fined. BBC News article by Sue Nicholson about two divers who plundered shipwrecks off the Kent coast. <http://www.bbc.co.uk/news/uk-england-kent-28093433>
- The search for Guggenheim treasure Loot valued at \$20 million lies off the coast of Staten Island, and Ken Hayes is on the hunt for the sunken silver bullion by Christopher Solomon, *Smithsonian*, March 5, 2010. <http://www.smithsonianmag.com/history/the-search-for-the-guggenheim-treasure-8712138/>

Excavation vs. preservation

Explore further – extended reading

- Amateur archaeologists shed light on historic cannons found in Sound. News article about amateur archaeologists doing research in Plymouth Sound. From July 2014. <http://www.plymouthherald.co.uk/Amateur-archaeologists-shed-light-historic/story-21446004-detail/story.html>
- Divers head deep to find old warship on Solent seabed. Short video (3:00). <http://www.portsmouth.co.uk/news/divers-head-deep-to-find-old-warship-on-solent-seabed-1-6160898>
- More information about the story is available here: Divers will begin to unravel the secrets of Crimean warship this week: <http://onthewight.com/2014/07/01/divers-unravel-secrets-crimean-warship-week/>
- Divers uncover historical treasure trove in Hong Kong:
 - Article from Scubaverse: <http://www.scubaverse.com/2014/07/18/divers-uncover-historical-treasure-trove-hong-kong-waters/>
 - Article from South China Morning Post: <http://www.scmp.com/news/hong-kong/article/1553009/divers-uncover-historical-treasure-trove-waters-sai-kung>
- Why conserve the *Cutty Sark*? 50-minute long lecture for Gresham College in which Richard Doughty, Chief Executive of Cutty Sark Trust, considers why this merchant sailing ship is so highly regarded around the world and why, despite the damage done by the fire in 2007, so much time and effort has been invested in conserving her original structure. <http://www.gresham.ac.uk/lectures-and-events/why- conserve-the-cutty-sark>

Miscellaneous items which may be of interest to you.

- Building a war of 1812 warship. This summer, a ship named after naval hero Oliver Hazard Perry will set sail by Amy Crawford, *Smithsonian Magazine*, April 2014. <http://www.smithsonianmag.com/arts-culture/building-war-1812-warship-180950186/>
- The luxuries of the Titanic. Fresh flowers, beautiful cafes, and a heated pool: Titanic survivor Archibald Gracie recalled the style and grace of the ship in his testimony after the crash. (2:56) <http://www.smithsonianmag.com/videos/category/travel/the-luxuries-of-the-titanic/>
- Three of the best shipwreck dives for beginners. This article includes videos of the three wrecks that are described. <http://aquaviews.net/scuba-dive-destinations/3-shipwreck-dives-beginners/>

Explore further – extended reading [advanced]

Explore further – extended reading

- Why the Titanic still fascinates us: <http://www.smithsonianmag.com/history/why-the-titanic-still-fascinates-us-98137822/>
- The illicit antiquities trade as a transnational criminal network: characterizing and anticipating trafficking of Cultural heritage:
https://www.academia.edu/4146904/The_Illicit_Antiquities_Trade_as_a_Transnational_Criminal_Network_Characterizing_and_Anticipating_Trafficking_of_Cultural_Heritage
- Rigorous reasoning, reflexive research and the space for 'Alternative Archaeologies'.
Questions for Maritime Archaeological Heritage Management:
https://www.academia.edu/358073/Rigorous_Reasoning_Reflexive_Research_and_the_Space_for_Alternative_Archaeologies_Questions_for_Maritime_Archaeological_Heritage_Management
- Alum Bay Maritime Archaeological investigations: management Report:
https://www.academia.edu/7475029/Alum_Bay_Maritime_Archaeological_Investigations_Management_Report

Just the beginning

Reflecting on maritime archaeology

- N/A

Farewell from the educators

- F400 BSc Archaeology (3 years):
http://www.southampton.ac.uk/humanities/undergraduate/courses/archaeology/F400_bsc_archaeology.page?
- V400 BA Archaeology (3 years):
http://www.southampton.ac.uk/humanities/undergraduate/courses/archaeology/V400_ba_archaeology.page?
- VL47 BA Archaeology and Geography (3 years):
http://www.southampton.ac.uk/humanities/undergraduate/courses/archaeology/vl47_ba_archaeology_and_geography.page?
- VV41 BA History and Archaeology (3 years):
http://www.southampton.ac.uk/humanities/undergraduate/courses/archaeology/vv41_ba_archaeology_and_history.page?
- Centre for Maritime Archaeology at the University of Southampton:
http://www.southampton.ac.uk/archaeology/research/groups/centre_for_maritime_archaeology.page?

Explore further – extended reading

- MA/MSc in Maritime Archaeology:
http://www.southampton.ac.uk/humanities/postgraduate/taught_courses/taught_courses/archaeology/v400_ma_msc_maritime_archaeology.page?
- MRes and PhDs in Maritime Archaeology:
http://www.southampton.ac.uk/humanities/postgraduate/research_degrees/degrees/archaeology_mphil_phd_research_programme.page?
- Lifelong learning opportunities at University of Southampton:
<http://www.southampton.ac.uk/lifelonglearning/archaeology/index.page?>
- Study Days at University of Southampton
<http://www.southampton.ac.uk/lifelonglearning/archaeology/studydays.page?>
- Archaeology of Portus MOOC: Exploring the lost harbour of ancient Rome:
<https://www.futurelearn.com/courses/portus-2>
- Exploring our Oceans MOOC: <https://www.futurelearn.com/courses/exploring-our-oceans-2014-q3>
- Hadrian's Wall: Life on the Roman frontier Newcastle University MOOC:
<https://www.futurelearn.com/courses/hadrians-wall>
- Council for British Archaeology: <http://new.archaeologyuk.org/>
- The CBA also has a useful webpage on becoming an archaeologist:
<http://new.archaeologyuk.org/become-an-archaeologist/>
- Aged over 8 and under 17? Join Young Archaeologists' Club:
<http://new.archaeologyuk.org/join-a-yac-branch>
- Maritime Archaeology Trust: <http://www.maritimearchaeologytrust.org/>
- MAT volunteering opportunities:
<http://www.maritimearchaeologytrust.org/volunteering>
- Nautical Archaeology Society training programme:
<http://www.nauticalarchaeologysociety.org/content/what-nas-training-programme>
- [Get involved with NAS] **link not active on MOOC**
(<http://www.nauticalarchaeologysociety.org/content/get-involved>)
- International Congress of Maritime Museums: <http://www.icmmonline.org/>
- Maritime and Naval Museums in Britain and Ireland:
<http://people.ds.cam.ac.uk/mhe1000/museums.htm>
- List of maritime museums in the United States:
http://en.wikipedia.org/wiki/List_of_maritime_museums_in_the_United_States
- Notable maritime museums in Asia and Oceania:
http://en.wikipedia.org/wiki/Maritime_museums#Asia_and_Oceania
- Notable maritime museums in Europe:
http://en.wikipedia.org/wiki/Maritime_museums#Europe

Explore further – extended reading

- Notable maritime museums in North America:
http://en.wikipedia.org/wiki/Maritime_museums#North_America
- Notable maritime museums in Central America:
http://en.wikipedia.org/wiki/Maritime_museums#Central_America
- Notable maritime museums in South America:
http://en.wikipedia.org/wiki/Maritime_museums#South_America
- Notable maritime museums in Middle East:
http://en.wikipedia.org/wiki/Maritime_museums#Middle_East
- Notable maritime museums in Africa:
http://en.wikipedia.org/wiki/Maritime_museums#Africa
- Council of American Maritime Museums:
<http://councilofamericanmaritimemuseums.org/>
- National Maritime Museums:
http://en.wikipedia.org/wiki/National_Maritime_Museums_%28disambiguation%29
- Smith's Master Index to Maritime Museum websites:
<http://www.maritimemuseums.net/>
- Maritime history news: <http://www.culture24.org.uk/history-and-heritage/transport/maritime-history>
- Open access archaeology digest: <http://openaccessarchaeology.tumblr.com/>
- Courses in Underwater Archaeology at Universities and other institutions:
<http://www.unesco.org/new/fileadmin/MULTIMEDIA/HQ/CLT/pdf/universitieswithprogramsunderwaterarcheology2013forweb1607.pdf>
- Useful links by NAS: <http://www.nauticalarchaeologysociety.org/content/links>
- BSAC wreck appreciation:
<http://www.nauticalarchaeologysociety.org/content/links>

End of course evaluation and surveys

- FutureLearn survey: https://www.surveymonkey.com/s/shipwrecks_post

Come and meet us

- Being Human: a festival of the humanities:
<http://beinghumanfestival.org/event/sea/>

Explore further – extended reading

Acknowledgements

- Denmark's museum for ships, seafaring and maritime crafts in ancient and medieval times: <http://www.vikingskibsmuseet.dk/en/>
- Buckler's Hard: <http://www.bucklershard.co.uk/>
- Albanian Center for Marine Research: <http://albaniamarinecenter.org/>
- RPM Nautical Foundation: <http://www.rpmnautical.org/>
- Archeologische Dienst Waasland: <http://www.a-d-w.be/ndl/>
- De Kogge: <http://kogge.be/en>
- Onroerend Erfgoed: <https://www.onroenderfgoed.be/>
- Maritime Archaeology Trust: <http://www.maritimearchaeologytrust.org/>
- Oxford University Press:
<http://www.oxfordhandbooks.com/view/10.1093/oxfordhb/9780195375176.001.0001/oxfordhb-9780195375176-e-38>