

Drops in the Ocean: Sea Saviors in Shepherds'

Clothing

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Individual Website

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Earlier this year, my environmental science class studied a documentary about the negative effects of the modern-day maritime fishing industry. I discovered myself to be quite interested in the subject. Thus, when I went to select my history fair topic, my mind jumped to Sea Shepherd, an organization in the documentary celebrated for its rare success in disrupting harmful activities such as illegal fishing and exploitation. Sea Shepherd relates to the theme because due to Sea Shepherd, the world is in a 21st-century turning point away from marine abuse, corruption, and irresponsibility, instead heading toward protected oceans capable of sustaining the Earth for years to come.

I conducted my research by first reviewing the documentary from which I had drawn my inspiration. I then proceeded to delve into Sea Shepherd's website, where I studied data collected by the organization regarding their impact and various operations. From there, I began researching the context of Sea Shepherd, including the problems it combats and the importance of their mission. I also purchased a book full of research on the reduction of whale populations. Overall, I reached out to around forty individuals, including professors, Sea Shepherd recruits, and environmentalists, in hopes of attaining interviews. The eleven interviews I received contributed greatly to my project, providing a credible base for my claims.

I created my project using NHD's website builder. To incorporate advanced visual elements, I invested my time into making custom designs in the application Keynote. I then planned a common color scheme and formatting technique that I would use uniformly across the website for enhanced visual appeal and complementary organization. From there, I was able to begin entering more specific information, including quotes, pictures, and other elements. iMovie and Piccollage proved to be instrumental in developing a unique nature to my website with their

options for custom animations. Overall, I strove to create an interactive experience with a variety of creative mediums.

My historical argument is that marine environments are currently being compromised by irresponsible, profit-seeking corporations. These entities engage in harmful behaviors such as overfishing, illegal fishing, generating bycatch, abandoning fishing gear, and fish farming. The members of Sea Shepherd have taken on a prominent role in marine conservation through direct action campaigns, physically traversing ocean waters and risking their lives in the process. Sea Shepherd also makes use of outreach programs to spread awareness and garner public support.

Sea Shepherd is significant due to its application in modern-day issues and its implications for the future. Oceans are vital to the health of the planet and thus to the future of the human population. For instance, marine life plays a massive role in compensating for extensive carbon emissions by acting as a carbon sink. However, the ongoing exploitation of aquatic species and the lack of environmental awareness in an ever-expanding commercial culture has threatened the ocean in recent decades. Sea Shepherd has been the leading organization combating this threat, making a real impact that can be seen through evidential data.

Works Cited

Primary Sources

Book

Kraus, Scott D, and Rosalind Rolland. *The Urban Whale : North Atlantic Right Whales at the Crossroads*. Cambridge, Mass., Harvard University Press, 2009.

This book, detailing the threats faced by the North Atlantic right whale species, gave me some prominent examples relating to the harmful nature of abandoned fishing gear. I used these examples as supportive evidence of my claims presented within the website regarding fishing gear.

Dataset

Harvard University. *Fishing Nets 2015-2018: Earth Challenge Integrated Data*. Oct. 2018. *The Ghost Gear Project*, projects.iq.harvard.edu/ghostgear/visualizations. Accessed 2024.

This graduated symbol map shows an estimate of the number of abandoned fishing nets collected monthly. I used a graph representing a particular month to support my claims about ghost gear being a significant and prevalent problem.

National Aeronautics and Space Administration, and Goddard Institute for Space Studies.

GLOBAL LAND-OCEAN TEMPERATURE INDEX. 2023. *Global Climate Change: Vital Signs of the Planet*, climate.nasa.gov/vital-signs/global-temperature/. Accessed 2024.

This dataset, represented in the form of a graph, shows the changing nature of the temperature index over the past 150 years (approximately). I used the graph to support my webpage about the impact and significance of carbon dioxide emissions.

National Aeronautics and Space Administration, and NOAA. *DIRECT MEASUREMENTS:*

1958-PRESENT. Jan. 2024. *Global Climate Change: Vital Signs of the Planet*,
climate.nasa.gov/vital-signs/carbon-
dioxide/?utm_source=newsletter&utm_medium=email&utm_campaign=monthly+newsle
tter. Accessed 2024.

The data represents the increasing carbon dioxide concentration over a period of several decades. This data helped my understanding because it gave me a visual example of the persistent problem of climate change. I used the graph in my website to support my claims of the need for the ocean to mitigate the high concentrations.

---. *PROXY (INDIRECT) MEASUREMENTS.* 2024. *Global Climate Change: Vital Signs of the Planet*, climate.nasa.gov/vital-signs/carbon-
dioxide/?utm_source=newsletter&utm_medium=email&utm_campaign=monthly+newsle
tter. Accessed 2024.

This data illustrates atmospheric carbon dioxide levels for the past hundreds of thousands of years. Comparing the measurements from long ago to today's allowed me to comprehend the seriousness of the situation we face today with climate change. I used the graph as supporting data to the carbon dioxide crisis I discussed.

Whale and Dolphin Conservation. *Whaling in Japan by Year (1987-2020).* 2022. *Whale and Dolphin Conservation*, us.whales.org/our-goals/stop-whaling/whaling-in-japan/#:~:text=Japan%20carries%20out%20whaling%20under,therefore%20illegal%20under%20the%20Moratorium. Accessed 2024.

I used this data in the form of a graph to justify my claims of Sea Shepherd's ongoing work against Japanese whaling. The graph allowed me to better visualize Sea Shepherd impact as displayed by numbers. From the perspective of the viewer, the graph adds credibility to my claims of Sea Shepherd's significance in discouraging illegal practices.

Digital Images

Amromin, Anton, et al. "Laying the Basis for Almost All Ecosystems in the Oceans, Fish Are Vitally Important to the Oceans, yet Often Go Forgotten or Disregarded in Conservation Efforts," *Instagram*, 14 Apr. 2020, www.instagram.com/p/B-91FT7nP_z/?img_index=1. Accessed 2024.

I used this scenic image as the header picture for my page on carbon dioxide regulation. The deep blue colors truly complemented the theme of my website, allowing me to develop a very appealing aesthetic for the viewer.

AMSA. "Discarded Fishing Gear Harming Marine Wildlife," *Australian Maritime Safety Authority*, 29 June 2021, www.amsa.gov.au/news-community/news-and-media-releases/ghost-fishing. Accessed 2024.

I used this picture of fish caught in a ghost net as the header picture for my page on fishing gear. Abandoned fishing gear is often deadly for marine creatures that become entangled, thus making this picture representative of one of the core issues discussed in my website.

Bacou, Alice, and Sea Shepherd Global. "A Playful Pod of #Dolphins Popping up to Say Hello to Our Crew on the Sea Eagle!," *Instagram*, 3 Aug. 2023, www.instagram.com/p/Cverx7cMc8m. Accessed 2024.

I used the images of the dolphins as part of my collage representing the relationship between whales/dolphins and phytoplankton in mitigating the climate crisis.

---. “Longliner Busted for Shark Finning!,” *Instagram*, 9 Sept. 2022,

www.instagram.com/p/CiSF-blsb3s?img_index=8. Accessed 2024.

The image depicts the inside of an illegal fishing vessel that was killing sharks for their fins and then throwing the bodies overboard. This is a form of overfishing that is overthrowing the balance of our marine ecosystems; thus, I found the image fit to be included in my presentation.

---. “Our Dedicated Crew Is Taking a Stand against Illegal Fishing in the Med Sea, Working

Tirelessly to Dismantle Hazardous Gear,” *Instagram*, 18 July 2023,

www.instagram.com/p/Cu19N_HMqhP. Accessed 2024.

I used these images of trawling nets and trapped animals to emphasize the destructive nature of ghost nets that are left unattended in the ocean.

---. “This Is the Heart-Wrenching Reality of the Fishing Industry,” *Instagram*, 25 July 2023,

www.instagram.com/p/CvHIZgNM11w. Accessed 2024.

I used this picture of a shark being caught as bycatch to demonstrate the unsustainable nature of the modern-day commercial fishing industry. This picture provides support for the need for Sea Shepherd’s impact.

Capitanio, Elena, and Sea Shepherd Global. “Kampf Gegen Tödliche Lockbojen: Mehr Als 26

Km Leinen Entfernt!,” *Instagram*, 17 Oct. 2023, www.instagram.com/p/CyghGxpspl1.

Accessed 2024.

I used this image of an FAD in my collage representing Operation Siso to illustrate one of the problems discussed in my website. Sea Shepherd's Operation Siso revolves around removing these dangerous devices from the ocean, making the water safer for all marine creatures.

Castel, Kevin. "A Climate Warrior!," *Instagram*, 10 Jan. 2023, www.instagram.com/p/CnPcXa1MqY-. Accessed 2024.

I used this picture of a whale as a header for the "Riding the Waves" page. Whales are one of the many species impacted by Sea Shepherd's missions and other efforts.

Constela, Helena, et al. "Operation Siso Achieves 70% Reduction in Illegal Fishing in Calabrian Waters!," *Instagram*, 30 Oct. 2023, www.instagram.com/p/CzBbEY4N9oe. Accessed 2024.

I used these images to demonstrate the recover-and-release process taken by the Sea Shepherd crew during Operation Siso. The efforts were to combat the harmful nature of abandoned fishing gear towards marine wildlife.

FFAC Staff. "Fish Farm," *Factory Farming Awareness Coalition*, 22 Feb. 2022, ffacoalition.org/articles/fish-farms-what-is-fish-farming-and-why-is-it-bad/. Accessed 2024.

I used this image as a header picture for my "Fish Farming" page. Even fish farming, a practice becoming widely adopted as "more sustainable," has its own consequences and detrimental effects on the ocean.

FoodSafety.gov. "Safe Selection and Handling of Fish and Shellfish," *FoodSafety.gov*, www.foodsafety.gov/blog/safe-selection-and-handling-fish-and-shellfish. Accessed 2024.

This image of a fish being commercially handled serves as a demonstration of the high consumer demand for fish products in markets and restaurants. The demand takes away from oceans as marine environments are forced under immense amounts of stress for monetary gain.

Gasparini, Flavio, and Sea Shepherd Global. "Sea Shepherd Global Joins Forces with Tuvalu to Combat Illegal Fishing in the South Pacific," *Instagram*, 10 May 2023, www.instagram.com/p/CsDii4hs0WF. Accessed 2024.

I used this picture as a header for my "Annotated Bibliography" page. The Allankay is one of Sea Shepherd's ships that has recently been working around Antarctica to discourage the overfishing of krill.

Gatehouse, Jonathon, and Amanda Shendruk. "Thunder Gone Under: The Story of the World's Longest Maritime Chase," *Maclean's*, 16 Apr. 2015, macleans.ca/news/canada/thunder-gone-under-the-story-of-the-worlds-longest-maritime-chase. Accessed 2024.

The images from this website allow the viewers of my website to better comprehend the chase after the Thunder. Even including a map of the paths taken by the vessels involved, the pictures do an efficient job of describing the operation.

Gimeno, Alejandra, et al. "Our Citizens Initiative #StopFinningEU Made a Compelling Case for a #FinBanNow," *Instagram*, 4 Apr. 2023, www.instagram.com/p/CqnU6uQIxow. Accessed 2024.

I used this image as a header for my "Fame... Or Fraud?" page. The practice being illustrated is shark finning, a form of irresponsible fishing behavior that encompasses killing sharks purely for the fins and wasting the rest of the meat.

Gold, Sandra, and Sea Shepherd Global. "Ocean Wildlife Is Amazing! ." *Instagram*, 2 Feb. 2022, www.instagram.com/p/CZem3eUoU96/?img_index=1. Accessed 2024.

I used this picture of Risso's dolphins as the header picture on my "Anchor's Away" page within my website. The striking blue shades in the picture allowed me to match to the decorative theme of my website while also providing ocean-related content for the viewers of my website to appreciate and enjoy.

Gregoire, Alice, and Sea Shepherd Global. "Half of the Catch... WAS PLASTIC," *Instagram*, 29 Apr. 2022, www.instagram.com/p/Cc8ROjaKMX5. Accessed 2024.

This image shows a fishing haul of an illegal vessel off the coast of Liberia. The marine life was very poorly maintained, showing that the vessel was unsustainable and damaging toward the ocean.

Griffiths, Rebecca, et al. "Happy World Whale Day," *Instagram*, 19 Feb. 2023, www.instagram.com/p/Co198BNMZCP/?img_index=2. Accessed 2024.

I used this picture of a whale's tail poking out of the water as the header on my "Thesis" page. Whales are one of the central species discussed in my project, thus, the image serves as both a complementary and content-related picture that sufficiently introduces the theme of the website.

Hayes, Cara. "What Is Phytoplankton?," *Plankton for Health*, planktonforhealth.co.uk/worlds-finest-marine-phytoplankton-powder/whats-definition-phytoplankton. Accessed 2024.

This image depicting a cluster of phytoplankton was integrated into a compilation of pictures supporting the relationship between whales/dolphins and phytoplankton. The relationship between the two is important to preserving atmospheric balance and mitigating climate change.

Henauer, Marc, and Sea Shepherd Global. “Let’s End the Shark Fin Trade in Europe,”

Instagram, 20 Mar. 2023, www.instagram.com/p/CqBcpZIMEKt. Accessed 2024.

I used this picture as a header for my “Summoning the Pod” page. The presence of a boat above the marine wildlife demonstrates the threat humans are posing on the oceans.

Hoyt, Joe, and Sea Shepherd Global. “Meet Coral!,” *Instagram*, 2 Jan. 2020,

www.instagram.com/p/B605aPGHXJj. Accessed 2024.

I used this digital image of fish surrounding corral to elaborate on the idea of interconnectivity of ocean species. Fish and coral complement each other to ensure their mutual survival.

Kerdavid, Youenn. “Calling All Ocean Warriors!,” *Instagram*, 10 Jan. 2024,

www.instagram.com/p/C165QIvM6X0. Accessed 2024.

I used the image of a Sea Shepherd crew member on the Allankay to represent Sea Shepherd’s krill campaign in Antarctica. The krill campaign is one of many missions Sea Shepherd has conducted in favor of marine ecosystems.

---. “HOW IS THIS LEGAL,” *Instagram*, 29 Jan. 2024, www.instagram.com/p/C2ryqGpMoEr.

Accessed 2024.

I used the picture of the Sea Shepherd crew watching the trawler to represent Sea Shepherd’s efforts to combat overfishing off Antarctica. I also used the picture of the whale and the trawler to depict how trawlers are quite literally removing krill right in front of the animals that depend on them for food and survival.

Kerdavid, Youenn, and Sea Shepherd Global. “On Our Way to #Antarctica, Our Crew Spotted an Incredible Pod of Hourglass Dolphins – Small, Black and White Creatures

Resembling Orcas, Native to the Frigid Waters,” *Instagram*, 15 Jan. 2024,
www.instagram.com/p/C2HhyycNhjq. Accessed 2024.

I utilized the image of an hourglass dolphin to help illustrate the connection between whales/dolphins and phytoplankton in combatting climate change. It was included in a collage with similar images.

Lindsey, Rebecca. “Climate Change: Atmospheric Carbon Dioxide,” *Instagram*, 12 May 2023,
www.climate.gov/news-features/understanding-climate/climate-change-atmospheric-carbon-dioxide. Accessed 2024.

The image I used from NOAA depicts a line chart. The chart tracked the amount of CO₂ emissions compared to total carbon concentrations across many years, and the results represented my claims of the worsening climate crisis.

Mahler, Katie, et al. “Während Der Diesjährigen Kampagne Konnten Wir Schon Mehr Als 8 Tonnen Geisternetz Aus Der Ostsee Bergen,” *Instagram*, 5 Sept. 2023,
www.instagram.com/p/Cw0JLksoP0G/?img_index=2. Accessed 2024.

I used the images of Sea Shepherd crew members removing ghost nets from the Baltic Sea to emphasize Sea Shepherd’s commitment of using direct action to clean the oceans. Ghost nets have the potential to ensnare massive numbers of organisms, posing one of the most serious threats to marine wildlife.

Mahler, Katie, and Sea Shepherd Global. “Mit Einem Werkzeug Müssen Unsere Volunteers Auf Der BALTIC SEA CAMPAIGN Besonders Gut Umgehen Können. Die Nagelschere!,” *Instagram*, 19 Dec. 2023, www.instagram.com/p/C1Cg4APoNJx. Accessed 2024.

I used the picture of the entangled crab being assisted by Sea Shepherd’s crew to highlight the intent of the Baltic Sea Campaign to combat the negative effects of

ghost gear on marine ecosystems. This is one of many examples of Sea Shepherd's direct action missions.

Nicholson-Jack, Aimee, et al. "Do You Know What Links All These Marine Animals in the Pictures," *Instagram*, 19 May 2023, www.instagram.com/p/Csa6-7UKgwI. Accessed 2024.

I used these images of marine animals to add visual appeal to my website. Many of the animals shown in the pictures are endangered, contributing to the need for Sea Shepherd and its direct action campaigns.

Norse, Elliott, and Smithsonian National Museum of Natural History. "A Net Full of Bycatch," *Smithsonian Ocean*, ocean.si.edu/conservation/fishing/bycatch-cost-catching-what-you-dont-want. Accessed 2024.

This picture shows a fishing net with its catch: but only a small portion of the haul accounts for the target species, shrimp. The rest is a variety of other species unintentionally caught - emphasizing the significance of bycatch in even just one fishing operation.

ocean-climate.org. "THE OCEAN, a CARBON SINK," *Ocean & Climate Platform*, ocean-climate.org/en/awareness/the-ocean-a-carbon-sink. Accessed 2024.

I used these digital images to demonstrate how the oceans form a carbon sink through both physical and biological processes. Since the ocean acts as a carbon sink, it mitigates the climate change crisis.

Pennisi, Elizabeth. "Starboard, a Female Right Whale, Died off Canada's Coast after Dragging Snow Crab Traps for Days," *Science*, 7 Nov. 2017,

www.science.org/content/article/north-atlantic-right-whale-faces-extinction. Accessed 2024.

I used this image of a right whale entangled in an FAD to support the quotes I used from “The Urban Whale.” Entanglement in abandoned fishing gear poses a significant threat to whales and other marine species.

Petit, Helene, and WWF. “Bycatch of a Leatherback Turtle in a French Tuna Purse-Seine Fishery in the Atlantic Ocean,” *WWF*, 6 Autumn 2009, www.wwf.eu/?166941/Bycatch-Factsheet. Accessed 2024.

I used this image of a dead turtle within a heap of caught fish to demonstrate the effects of bycatch on marine wildlife. Oftentimes, animals such as turtles are killed as excess meat – and sometimes even dumped overboard.

Phillips, Alexis. “ENVIRONMENTAL ACTIVIST and PIONEER: CAPTAIN PAUL WATSON,” *The momentum*, www.themomentum.com/articles/environmental-activist-and-pioneer-captain-paul-watson. Accessed 2024.

The image of Captain Paul Watson was used in my introduction of Sea Shepherd within my “Anchors Away” page. Paul Watson was the founder of Sea Shepherd and an avid supporter of the use of direct action campaigns to inspire change regarding the treatment of marine ecosystems.

Rebillard, Adrien, et al. “Best of 2022,” *Instagram*, 27 Dec. 2022, www.instagram.com/p/Cmq_xbPsh9N. Accessed 2024.

I used the images within this post for page headers. I also utilized the picture of the dolphins within my animation representing the relationship between whales/dolphins and phytoplankton.

Romanowski, Sean, and Sea Shepherd Germany. "Mehr Als 112 Stunden Unter Wasser," *Instagram*, 7 Nov. 2023, www.instagram.com/p/CzWsLYAIUmi. Accessed 2024.

I used this image of a Sea Shepherd crew member by an underwater ghost net to represent Sea Shepherd's efforts to remove ghost gear. These efforts were made as a part of the Baltic Sea Campaign.

Sea Shepherd Conservation Society. "Sea Lice from These Atlantic Salmon Farms Are Damaging the Wild Fish Populations in BC," *Sea Shepherd Conservation Society*, 19 Sept. 2017, seashepherd.org/2017/09/19/2028. Accessed 2024.

This image of salmon infested with sea lice helped to support the claims in my website that fish farming is detrimental to the health of marine organisms. Fish farming also raises ethical concerns because of the extent of the mistreatment connected to the practice.

---. "Sea Shepherd Vessels Worldwide," *Sea Shepherd*, seashepherd.org/our-fleet. Accessed 2024.

This cluster of images depicts part of the worldwide Sea Shepherd fleet. I used the pictures to create my own gallery of the various ships, giving my viewers a visual representation of the effort that has been poured into the organization.

Sea Shepherd Global. "854 Whales Were Killed in the #FaroeIslands This Year, Victims of the Grind," *Instagram*, 15 Dec. 2023, www.instagram.com/p/C03p7d4sga1. Accessed 2024.

The Grind is a whaling operation in the Faroe Islands that has proven detrimental to sustainably maintaining marine ecosystems. I used these pictures to illustrate the damage of the Grind and why Sea Shepherd's efforts against it are so important.

---. “BREAKING: After over 24 Hours without Food or Water, Denied by Police, Activists Anahita Babaei and Elissa Bijou Ended Their Brave Protest against Whaling in Reykjavik Harbor,” *Instagram*, 6 Sept. 2023, www.instagram.com/p/Cw2sueNsbhu. Accessed 2024.

I used this image to contribute to the collage depicting the relationship between phytoplankton and whales/dolphins. I also used the picture as my header for the "Changing the Tide" page within my website. The deep blue colors of the photo do a sufficient job of matching with the theme of my website and complementing the visual effects of the page.

---. “Italian Trawler Caught Faking Its “Sustainably Caught Shrimp” to Be Sold in Europe,” *Instagram*, 23 Sept. 2023, www.instagram.com/p/CxaS3eCI_31. Accessed 2024.

I used these images to depict the conditions within illegal fishing vessels. These vessels are typically unsanitary, unsustainable, and degrading in their treatment of marine creatures and ecosystems.

---. “The First Sea Campaign,” *Sea Shepherd Global*, www.seashepherdglobal.org/who-we-are/history. Accessed 2024.

I used the image of the seal with the Sea Shepherd crew member to represent the first operation of Sea Shepherd as a direct action organization. Despite the challenges in such a cold environment, the crew was willing to power through those struggles to help the seal species.

---. “VICTORY for the Sharks of the Great Barrier Reef!,” *Instagram*, 3 Apr. 2019, www.instagram.com/p/BvzD2x2Ht8B. Accessed 2024.

The post featured an image of a shark in front of coral/marine plant life, serving as a convenient representation of the interconnectivity of ocean species. If even one species is harmed by overfishing, the entire marine food web could collapse.

Sea Shepherd Spain. “Join the Global Dive Community Making a Difference,” *Sea Shepherd Spain*, www.seashepherd.es/es/campanas/dive-2. Accessed 2024.

I used three pictures representative of Sea Shepherd’s Dive program, including the program’s logo and two pictures of divers. Protecting marine environments is imperative; thus, having a system of public awareness and contribution is critical.

Stokes, Gary, et al. “Happy World Tuna Day!,” *Instagram*, 2 May 2023, www.instagram.com/p/CrvJdASIFQe. Accessed 2024.

These digital images within the social media post from Sea Shepherd Global were used as header pictures throughout my project. They enhance visual appeal by representing different species of the ocean that Sea Shepherd’s missions serve to protect.

stopthegrind. “Faroe Islands Newspaper: ‘Young People Are Afraid to Participate in Whaling,’” *Stop the Grind*, 4 Sept. 2023, www.stopthegrind.org/post/faroese-new-article-young-people-are-afraid-to-participate-in-whaling. Accessed 2024.

This image shows a newspaper from the Faroe Islands, where the Grind, a massive hunt of whales and dolphins, takes place. The newspaper discusses Sea Shepherd’s involvement in acting against the Grind.

Team TVI. “Sea Shepherd Founder Hits Back at Seaspiracy Critics, Cites Problems of Kerala Fishermen,” *The Vegan Indians*, 11 Apr. 2021, www.theveganindians.com/sea-shepherd-

founder-hits-back-at-seaspiracy-critics-cites-problems-of-kerala-fishermen. Accessed 2024.

I used this image of Captain Paul Watson holding the Sea Shepherd flag in my introduction of Sea Shepherd. Watson founded the organization, proud to lead a direct action campaign against the abuse of marine ecosystems.

van der Gun, Mika, et al. “Sea Shepherd Catches Super Trawlers Stealing from Megapod of Whales in Antarctica,” *Instagram*, 9 Mar. 2023, www.instagram.com/p/CpkGfNDMqNZ. Accessed 2024.

The images of dolphins and supertrawlers support the visual perspective of my project. Supertrawlers damage marine environments by removing massive amounts of marine life from the oceans, putting dents in food webs and the balance of ecosystems.

---. “THIS IS WHAT’S at STAKE,” *Instagram*, 7 Dec. 2023, www.instagram.com/p/C0jRVeXNepA. Accessed 2024.

I used the picture of the whale to help represent the effect of the relationship between whales and phytoplankton on climate change. Whales and phytoplankton are both vital to the health of the planet, making Sea Shepherd’s missions very significant.

van der Heever, Willem, et al. “Every Life, Whether Big or Small, Is Worth Saving!,” *Instagram*, 21 Nov. 2023, www.instagram.com/p/Cz6Jh9bIdhH?img_index=5. Accessed 2024.

I used this image of a stingray caught in an FAD to emphasize the negative effects of FADs on marine environments, especially once they have been abandoned.

Once trapped in an FAD, animals are likely to die, creating a gap in ocean wildlife.

Watters, Tim, and Sea Shepherd Global. “Rough Weather May Not Be Everyone’s Cup of Tea, but for Sailors Chasing Poachers, It Is Commonplace,” *Instagram*, 20 Sept. 2020, www.instagram.com/p/CE1nTqYHICN. Accessed 2024.

I used this image of the Bob Barker to complement my “Thesis” page. One of the ships in the Sea Shepherd fleet, the Bob Barker has been on many missions to positively impact the ocean.

Wu, Tony, et al. “Happy World Orca Day!,” *Instagram*, 14 July 2023, www.instagram.com/p/Curjfl_s_wU. Accessed 2024.

I used the picture of the orca within the school of fish to support my collage of whales and dolphins. Orcas contribute to maintaining atmospheric carbon dioxide levels and are therefore vital to the human population as a defense against climate change.

Zampicinini, Cristiano. “Don’t We All Know What Fish Is Hiding Here?,” *Instagram*, 28 Feb. 2021, www.instagram.com/p/CL2M6FrKhwO. Accessed 2024.

I used this digital image of fish hiding among the anemones to represent the interconnectivity of marine species. If even one marine species is extracted from the food web, it can cause a rippling effect through the entire ecosystem.

Documentary

“Seaspiracy.2021.” *Vimeo*, 2 Apr. 2021, vimeo.com/532339379. Accessed 2024.

Seaspiracy was the documentary that inspired me to create my website about Sea Shepherd. Combining the perspectives of many marine conservation

professionals, the documentary served as my motivation and a valuable resource for quotes and information.

Interviews

Cooper, Peter. *State of the Fishing Industry*. 15 Mar. 2024.

I conducted this personal interview (phone) with Peter Cooper, a branch chief within the Office of Sustainable Fisheries (NOAA Fisheries). Having been an observer on commercial fishing vessels, he was able to offer a first-hand perspective of issues such as bycatch and unreported fishing.

Deyoe, Hudson. *Prevalence of Ocean Mistreatment*. 20 Mar. 2024.

I conducted this personal interview (phone) with Dr. Deyoe (PhD in biological sciences and current professor at the School of Earth, Environmental, and Marine Sciences at the University of Texas Rio Grande Valley), in which I inquired about the prominence of overfishing, illegal fishing, and aquaculture. We talked about the consequences each of those practices have on the environment and how people could work to discourage them. Overall, the interview was useful because it gave me more insight about the damage being done to marine ecosystems.

Diaz, Kim. *First-Hand Perspective of a Sea Shepherd Director*. 1 Jan. 2024.

This personal interview (email) with Kim Diaz, a member of Sea Shepherd, provided me with background information regarding the problems within the fishing industry. As the first interview I conducted, it gave me a basis of understanding around which to build my project.

Goodenough, Paul. *Values of Sea Shepherd and the Importance of Marine Conservation*. 17 Jan. 2024.

This personal interview (phone) with Paul Goodenough, a highly regarded environmentalist who works with Sea Shepherd, gave me valuable insight into the true meaning of Sea Shepherd as an organization. It also changed my perspective regarding the state of the oceans and the true historical significance of Sea Shepherd.

Kerdavid, Youenn. *Sea Shepherd Campaigns and Strategies*. 15 Jan. 2024.

This personal interview (email) with Youenn Kerdavid, a media specialist for Sea Shepherd, gave me another first-hand perspective of Sea Shepherd's tactics in marine conservation. In fact, he is participating in Operation Antarctica Defense, gathering pictures and videos to inspire the public to unite against the overfishing of krill.

McDowell, Bill. *Marine Conservation in Relation to Society*. 11 Jan. 2024.

This personal interview (email) with Bill McDowell, a biology professor at Merrimack College, provided me with a thorough analysis of the problems facing the ocean and the faults behind society's reaction. He also emphasized the importance of reversing that current condition of the ocean's health.

McDowell, Kristy. *Greenwashing and the Ocean's Significance*. 10 Jan. 2024.

This personal interview (email) with Kristy McDowell, an ecology professor at Merrimack College, provided me with valuable insight on the issue of greenwashing. We also talked about the importance of marine environments to human society and the dangers posed by the expanding fishing industry.

Read, Andrew. *Issues Facing the Ocean*. 8 Jan. 2024.

This personal interview (email) with Andrew Read, a marine sciences professor at Duke University, provided me with valuable insight on the problems surrounding marine conservation. A highly regarded researcher, Dr. Read's responses added an immense amount of credibility to my website.

Schubert, Jamie. *Impact of the Fishing Industry on Marine Health*. 20 Mar. 2024.

This personal interview (phone) with Jamei Schubert, a marine habitat resource specialist at NOAA, brought me additional insight on the state of the fishing industry. We talked about the issues of overfishing, illegal fishing, bycatch, and aquaculture in the sense of their impact on marine environments. The insight I gathered from this interview contributed to my website since I quoted Schubert's words in my website.

Storey, Chris. *Goals and Mission of Sea Shepherd*. 17 Jan. 2024.

This personal interview (email) with Chris Storey, a member of Sea Shepherd, provided me with access to one of Sea Shepherd's reports and allowed me to gain a perspective on Sea Shepherd's mission. Based on his own experiences with Sea Shepherd, Storey's insight was very valuable and credible.

VanVoorhees, Laura. *Marine Conservation and Labor Implications*. 15 Jan. 2024.

This personal interview (phone) with Laura VanVoorhees, a member of the Bureau of International Labor Affairs, provided me with valuable insight regarding the labor-related implications of marine issues and conservation. Therefore, I achieved a more well-rounded understanding of the struggle between commercial and environmental interests.

Newspaper Articles

Associated Press. "Climate Said Altered in Many Areas by Burning of Coal, Oil." *The Oregon Statesman*, 29 Dec. 1956, oregonnews.uoregon.edu/lccn/sn90066132/1956-12-29/ed-1/seq-15/. Accessed 2024.

This newspaper article from the 1950s reflects on the growing climate crisis, which was first rising in significance. With increased carbon dioxide emissions came an increased need for the ocean to help mitigate the emissions and ease their impact on atmospheric levels as much as possible.

Lebreton, Edmond. "Climate Change Expected as Carbon Dioxide Added to Air." *The Oregon Statesman*, 16 Mar. 1956, oregonnews.uoregon.edu/lccn/sn85042470/1956-03-16/ed-1/seq-8/print/image_534x817_from_0,0_to_4843,7399/. Accessed 2024.

The article is discussing the intensifying of carbon dioxide emissions as the world turned more and more consistently to mechanization. It helped me set the stage for the importance of the ocean in helping to offset the impact of the emissions on atmospheric composition and climate change.

Shabecoff, Philip. "Global Warming Has Begun, Expert Tells Senate." *The New York Times*, 24 June 1988, theconversation.com/30-years-ago-global-warming-became-front-page-news-and-both-republicans-and-democrats-took-it-seriously-97658. Accessed 2024.

This article from The New York Times emphasizes the unavoidable nature of the onsetting climate crisis. Although global warming has proven to be a dangerous and ever-worsening trend, the oceans have maintained a huge role in preventing the data from appearing even more dire.

Reports

Food and Agriculture Organization. *The State of World Fisheries and Aquaculture 2010*. 2010.

This report showcases data relating to the status of fisheries and oceans from a perspective of sustainability and research. The data provided me with numerical data upon which I could build my claims. Real-life data is instrumental to creating a credible and realistic project – a project based on proven problems that exist according to factual research.

Sea Shepherd Global. *Sea Shepherd Global End-of-Year Report*. 2023.

I used this report from Sea Shepherd Global to gather information regarding their various missions, goals, and accomplishments. The report also included commentary from Sea Shepherd officials, which I used as supporting evidence in my project. As a whole, the report was vital to my understanding of Sea Shepherd's undeniable impact on the world through the various examples of their success.

Social Media Posts

Sea Shepherd Global. *43 Pilot Whales Killed. Yesterday, around Noon, a Grind Was Called in the Faroe Islands*. 23 Sept. 2023, www.instagram.com/p/Cxihm1eg8SX. Accessed 2024.

I quoted the caption of this social media post as an example of Sea Shepherd's efforts promoting public awareness and involvement. Sea Shepherd has taken on a prominent role in informing the public of the marine crisis the world is currently facing. The Grind is one such instance where they have concentrated immensely on reaching out to general society and raising support in that manner.

---. “This #WorldWildlifeDay, Take a Look at Some of the Magnificent Ocean Animals That Compel Us to Keep Fighting on the Frontline of Marine Conservation .” *Instagram*, 3 Mar. 2021, www.instagram.com/p/CL97HAMLJTY/?img_index=1. Accessed 2024.

I used this social media post to collect a quote from Captain Paul Watson about his mission in life to protect the species of the ocean. I used the quote to support my claims of the motives of Paul Watson and of Sea Shepherd in preserving the ocean and sustaining marine wildlife in a responsible manner.

Stamps

“Global Warming.” *Colnect*, 2009, colnect.com/en/stamps/stamp/209172-Global_Warming-Environmental_Protection_2009-Israel. Accessed 2024.

This stamp shows an image of the Earth melting in a cooking pot, representing global warming. Climate change has developed into a prevalent problem in the last few decades, posing a serious threat to the Earth and human society.

Post of Indonesia. “File:Stamp of Indonesia - 2007 - Colnect 384807 - Environment - Conservation Global Warming.jpeg,” *Wikimedia Commons*, 2007, commons.wikimedia.org/wiki/File:Stamp_of_Indonesia_-_2007_-_Colnect_384807_-_Environment_-_Conservation_Global_Warming.jpeg. Accessed 2024.

This stamp depicts the melting of polar ice, one of the consequences of increased carbon dioxide emissions and global warming. As global warming becomes and increasingly pressing issue, the oceans become increasingly vital to withstanding the climate crisis.

Videos

Connect4Climate. "Greta Thunberg at Youth4Climate Summit 2021 in Milan - Full Speech."

YouTube, 8 Oct. 2021, www.youtube.com/watch?v=ceIE_ehQhtc. Accessed 2024.

The video of Greta Thunberg's speech at an environmentalist conference covered many themes within my project, such as environmental degradation and carbon dioxide emissions. Thus, Thunberg's words served as support to the claims I made on climate change. As a well-known and highly regarded environmentalist, her words added credibility to the argument on my website.

Sea Shepherd Global. *Earlier This Year, Our Crew on the Age of Union Captured the Shocking Footage of over 100,000 Dead Fish*. 15 Dec. 2022, www.instagram.com/p/CmMFQdnjzc9. Accessed 2024.

This video shows one tragedy that can occur due to illegal trawling vessels, which, due to their immense size, put massive amounts of stress on individual species and whole marine ecosystems. In this particular video, an incident resulted in an illegal vessel's haul being dumped into the ocean for all to see: tens of thousands of dead fish, all caught within the day.

---. *What Happened in the Faroe Islands on Friday? Sea Shepherd Crew Recollects the Chase, Kill and Butchering of 43 Pilot Whales*. 24 Sept. 2023, www.instagram.com/p/CxlpyJqtR8J. Accessed 2024.

I used this video as a clip within my own website to demonstrate the horrors of the Grind, an operation threatening the marine ecosystems around the Faroe Islands. The Grind has raised much discussion of animal welfare concerns and morality, as implied by the irresponsible and bloody practices in the video. In the

context of my project, the video provided evidence of the issues that Sea Shepherd strives to resolve.

Websites

AAP, and AFP. “Stalemate over Whale “Pirate-Hostages.”” *The Sydney Morning Herald*, 17 Jan. 2008, www.smh.com.au/environment/conservation/stalemate-over-whale-pirate-hostages-20080117-gdrx3i.html. Accessed 2024.

From this article, I garnered information about how the Japanese negatively view Sea Shepherd - bringing in the idea of an alternate perspective. The quote I used (from a Japanese official) highlights the negative perspective, acting as primary source evidence. In its entirety, the article allowed me to present a counterargument.

Aeolian Preservation Foundation. “Operation SISO to Tackle Illegal Fishing – Sea Shepherd – Aeolian Island Preservation Fund.” *Aeolian Preservation Foundation*, aeolianpreservationfoundation.org/portfolio/operation-siso-to-tackle-illegal-fishing-sea-shepherd. Accessed 2024.

This website gave me background information on Operation Siso, which I studied to be able to adequately describe the mission in my website. I also used a quote from the operation’s leader regarding the purpose of the mission to provide a primary perspective.

Captain Paul Watson Foundation. “Captain Paul Watson: Captain Paul Watson Foundation.” *CPWF*, www.paulwatsonfoundation.org/captain-paul-watson. Accessed 2023.

This website offers an in-depth perspective on Captain Paul Watson, the founder of Sea Shepherd. The complexity of the website in describing the many

motivations and goals behind Watson's life greatly expanded my understanding of his intention behind the founding of Sea Shepherd. In fact, I was even able to extract a quote from Paul Watson that emphasizes his life-long mission regarding the oceans.

CTV News. "Paul Watson: Modern Pirate Seeks to Protect World's Sea Life." *CTVNews*, www.ctvnews.ca/paul-watson-modern-pirate-seeks-to-protect-world-s-sea-life-1.763584. Accessed 7 Oct. 2012.

I used a quote from Paul Watson that was presented in this article. Watson stated that many marine conservation organizations are inefficient in that they don't take direct action. This was a significant contribution to my project because I focus on how Sea Shepherd's direct action policies make the organization stand out from others and truly establish a modern turning point.

NOAA Fisheries. "Dolphin-Safe." *NOAA*, 1 Aug. 2023, www.fisheries.noaa.gov/national/marine-mammal-protection/dolphin-safe. Accessed 2024.

The National Oceanic and Atmospheric Administration published a review of the intended implications of the dolphin safe label, which I analyzed in my website. Being a primary document detailing the official regulations, the evidence I quoted from the document greatly strengthened my argument and personal understanding of the situation.

Ronson, Jacqueline. "How Sea Shepherd's "Steve Irwin" Will Use Dead Whales to Protect Live Ones." *Inverse*, 9 Dec. 2015, www.inverse.com/article/9044-how-sea-shepherd-s-steve-irwin-will-use-dead-whales-to-protect-live-ones. Accessed 2024.

I used a quote from this website from a Sea Shepherd official regarding the resilience of Sea Shepherd volunteers. This deepened my understanding of the dedication brought by Sea Shepherd members into their work. In my project, the quote served to justify the momentum Sea Shepherd has sprouted in the movement to conserve ocean environments.

Schuster, Sarah. "You Can't Destroy a Movement: Interview with Captain Paul Watson."

Impakter, 13 Jan. 2016, impakter.com/you-cant-destroy-movement-interview-captain-paul-watson. Accessed 2024.

I used a quote from the interview documented on this web page, in which Captain Paul Watson was discussing Sea Shepherd and its mission. Captain Paul Watson is the founder of Sea Shepherd, making his commentary a valuable primary source for my website. The interview also gave me valuable and detailed insight into Paul Watson's work, views, and goals.

Sea Shepherd Conservation Society. "Breaking Discovery on New Impact Salmon Farms Have on the Wild - Sea Shepherd Conservation Society." *Sea Shepherd Conservation Society*, 19 Sept. 2017, seashepherd.org/2017/09/19/2028. Accessed 2024.

I used this article to understand Operation Virus Hunter II, a Sea Shepherd mission dedicated to discouraging aquaculture (fish farming). I utilized a quote from an individual involved in the operation to support my website. In the context of the NHD theme, this website gave me the information necessary to emphasize the significance of Sea Shepherd's work against aquaculture as a modern-day turning point.

---. "Wild Salmon Recorded for First Time inside Fish Farms - Sea Shepherd Conservation Society." *Sea Shepherd Conservation Society*, seashepherd.org/2019/06/17/wild-salmon-recorded-for-first-time-inside-fish-farms. Accessed 2024.

This webpage was useful in understanding Sea Shepherd's perspective against fish farming. I used a quote from a Sea Shepherd officer regarding the issue. The quotation helped me to justify Sea Shepherd's interest and involvement in the problem of aquaculture, a disguised issue only threatening to worsen the condition of marine ecosystems.

Sea Shepherd Global. "2024 Antarctica Campaign Launch Targeting Krill Fishing Fleet." *Sea Shepherd Global*, 22 Jan. 2024, www.seashepherdglobal.org/latest-news/2024-antarctica-campaign-launch. Accessed 2024.

I used this article to gather information regarding the krill campaigns currently being conducted in Antarctica, as well as regarding past campaigns that took place in that same area. The article offered valuable insight from Captain Peter Hammarstedt as well, and I showcased his words in my website. In its entirety, the article helped me understand the importance and mission of the krill campaigns in the context of maintaining the balance of the marine food web in its entirety.

---. "A New Global Coalition." *Sea Shepherd Global*, 7 Oct. 2021, www.seashepherdglobal.org/latest-news/stop-the-grind-coalition. Accessed 2024.

This website gave me a thorough understanding of the Grind and why Sea Shepherd's campaign against it is so important. I was also able to use several quotes from prominent individuals in the article. These quotes support my

argument regarding Sea Shepherd's presence in gaining social awareness by providing the undisputable evidence of the words of people reached by the Grind campaign.

---. "Operation Siso." *Sea Shepherd Global*, www.seashepherdglobal.org/our-campaigns/siso. Accessed 2024.

This article presented a detailed description of Operation Siso, a Sea Shepherd mission seeking to extract FADs, traps, and ghost gear from the ocean. I used the information to give me another perspective of the operation, contributing to my own understanding of the mission and giving me a basis for summarizing Operation Siso in my own website.

---. "Operation Siso Achieves 70% Reduction in Illegal Fishing in Calabrian Waters." *Sea Shepherd Global*, 27 Oct. 2023, www.seashepherdglobal.org/latest-news/siso-reduction-illegal-fishing. Accessed 2024.

I used this website to understand Sea Shepherd's Operation Siso. Operation Siso resulted in the removal of massive amounts of ghost gear from the ocean, as well as in the reducing of illegal activity in the area. The information I gathered from this website gave me the insight necessary to write about Sea Shepherd's impact relating to ghost gear.

---. "Sea Shepherd Global Launches Sea Shepherd Dive." *Sea Shepherd Global*, 16 Feb. 2016, www.seashepherdglobal.org/latest-news/sea-shepherd-global-launches-sea-shepherd-dive. Accessed 2024.

I read this article to understand Sea Shepherd's Dive program, which seeks to involve the public by providing a reporting system for illegal marine activity. I

used a quote from the program's director, Gary Stokes, to supplement my website's explanation. The Dive program served as an adequate example of Sea Shepherd's impact in modern history.

---. "Sea Shepherd History." *Sea Shepherd Global*, www.seashepherdglobal.org/who-we-are/history. Accessed 2024.

This webpage presented a run-down of Sea Shepherd's history as an organization: from its original founding to its countless missions throughout the years. The information was critical to being able to view Sea Shepherd's timeline in one place. I was able to identify key events of success, which I used as evidence of Sea Shepherd's impact and significance of a modern-day turning point.

Tabuchi, Hiroko. "Japanese Whalers Detain Activists Who Boarded Their Vessel." *Statesboro Herald*, 30 Jan. 2008, www.statesboroherald.com/local/associated-press/japanese-whalers-detain-activists-who-boarded-their-vessel/. Accessed 2024.

I used this website article to understand the Japanese perspective of Sea Shepherd. This allowed me to contribute to my website by bringing in an alternate perspective - a perspective of Sea Shepherd as a dangerous terrorist organization. I used a quote from this article in my website.

Secondary Sources

Digital Images

iconsDB. "Navy Blue Dolphin Icon," *IconsDB*, 2011, www.iconsdb.com/navy-blue-icons/dolphin-icon.html. Accessed 2023.

I used this digital icon as an enhanceive visual element in my website header. The dark blue color perfectly complemented the formatting theme I was pursuing for

my website and thus made this image an exceptional option for the right side of my title design.

Political Cartoons

Burne, Tom. *Sustainability Marketing*, 28 Feb. 2021, marketoonist.com/2021/02/sustainability-marketing.html. Accessed 2024.

This political cartoon illustrates how corporations tend to prioritize finance and manipulation over true sustainability and honesty. As a result, many economic functions advertised as “sustainable” are not. The political cartoon, included in a larger collage, helped set the stage for the emergence of Sea Shepherd.

David, Mark. *Lessons Australia Can Learn from UN’s “Greenwashing” Report*, 12 Nov. 2022, independentaustralia.net/environment/environment-display/lessons-australia-can-learn-from-uns-greenwashing-report,16964#google_vignette. Accessed 2024.

This political cartoon is demonstrating how most companies base their “sustainability” on consumer perception rather than on actual measures taken to aid the environment. Corporations’ motives are often largely driven by money, not integrity, presenting a need for an organization such as Sea Shepherd to push for change and govern the treatment of the ocean.

Hume, David. *Greenwashing of Green Shipping Corridors*, 2 Jan. 2024, theliquidgrid.com/greenwashing-green-shipping-corridors/. Accessed 2024.

This political cartoon shows a ship being painted green, representative of the practice of greenwashing. Greenwashing was one of the central conflicts facing the ocean that I presented in my project. I included this cartoon in a collage to provide a visual for how fraudulent companies operate.

Loepp, Don. *Greenwashing Feeds Biodegradable Mania*, 20 May 2011,

www.plasticsnews.com/article/20110520/OPINION01/305209998/greenwashing-feeds-biodegradable-mania. Accessed 2024.

This political cartoon depicts the nature of greenwashing by showing a consumer hypnotized by the producer's claims of sustainability. Today, it is simple for corporations to manipulate the consumer base into thinking a product is sustainable when it really is not. The cartoon was included in a collage to visually represent the concept of greenwashing in a manner that is comprehensible and appealing to the eye.

Wuerker, M. *This Cartoon Tells You a Lot about Greenwashing!*, 17 Jan. 2017,

twitter.com/mulindwa_guy/status/1483023052371804161. Accessed 2024.

This political cartoon demonstrates how greenwashing often serves as a mask. The company appears to be sustainable in public view; however, behind the scenes, corners are being cut to maximize profits while still maintaining popularity. This prominent issue was one of the building blocks of my website, prompting action from Sea Shepherd as an organization seeking to minimize greenwashing.

Software

Apple Inc. *Keynote*. 13.1 (7366.0.100), 2010, www.apple.com/keynote.

Keynote was an integral part of developing my website. I used its features and animations to create my project header, along with various slideshows. The special transition features, organizational elements, and flexibility of the software

(with many designs, formats, colors, and fonts to choose from) allowed to create unique visual additions to my project.

Ginger Labs, Inc. *Notability*. 14.6, 2010, notability.com.

I used Notability to sketch the drawing of the stingray included in my header. I needed to be able to match the style and color of the dolphin icon I found online, and Notability gave me the flexibility to meet those needs. As a part of the header, my art from Notability greatly enhanced the visual appeal and complementary ocean-related colors of my project.

PicCollage Company. *PicCollage*. CB UDID, 2011, piccollage.com.

I used the app PicCollage to create unique animations for my project, such as the phytoplankton/whale/dolphin collage on the page about carbon dioxide regulation. The wide array of templates and animation options available on PicCollage allowed me to include an immense amount of variety in my website. These unique features truly make my website stand out in an engaging and interesting manner.

Reid, Glenn and Apple. *iMovie*. 3.0 (5515), 2013, apps.apple.com/us/app/imovie/id377298193.

I used iMovie in the development of the video on salmon farming. Using the app, I was able to take the raw video and then add layers of background music and wave sounds to create an enhanced experience for the viewer. I believe that small complementary details add depths of emotion and significance, allowing the video to stand out as a representation of the flaws of aquaculture.

Websites

AWI. "Fish Farming." *Animal Welfare Institute*, awionline.org/content/fish-farming. Accessed 2023.

I used this website to understand fish farming and its environmental effects.

Although fish farming is typically presented as a solution to marine exploitation, it comes with its own array of moral, environmental, and health concerns.

Therefore, using this website, I was able to build my foundational base of how I wanted to explain and incorporate the problem of fish farming.

Monterey Bay Aquarium. “Stop Illegal Fishing.” *Seafoodwatch.org*,

[www.seafoodwatch.org/seafood-basics/sustainable-solutions/stop-illegal-](http://www.seafoodwatch.org/seafood-basics/sustainable-solutions/stop-illegal-fishing#:~:text=Illegal%20fishing%20is%20a%20global,of%20the%20global%20reported%20catch)

[fishing#:~:text=Illegal%20fishing%20is%20a%20global,of%20the%20global%20reported%20catch](http://www.seafoodwatch.org/seafood-basics/sustainable-solutions/stop-illegal-fishing#:~:text=Illegal%20fishing%20is%20a%20global,of%20the%20global%20reported%20catch).

I used this website to understand illegal fishing. In addition to providing thorough descriptions of each type of issue (illegal, unregulated, and unreported fishing), the article presented information about the effects of IUU fishing. These descriptions gave me additional information to consider when writing about IUU fishing in my website, allowing me to form a coherent argument about it.

NOAA. “What Is Ghost Fishing?” *National Ocean Service - National Oceanic and Atmospheric Administration*, 11 Oct. 2023,

[oceanservice.noaa.gov/facts/ghostfishing.html#:~:text=Derelict%20fishing%20gear%2C](https://oceanservice.noaa.gov/facts/ghostfishing.html#:~:text=Derelict%20fishing%20gear%2C%20sometimes%20referred,as%20a%20hazard%20to%20navigation)

[%20sometimes%20referred,as%20a%20hazard%20to%20navigation](https://oceanservice.noaa.gov/facts/ghostfishing.html#:~:text=Derelict%20fishing%20gear%2C%20sometimes%20referred,as%20a%20hazard%20to%20navigation). Accessed 2024.

I read over this webpage to give me a basic understanding of the issue of ghost gear and its impact on marine ecosystems. Ghost gear encompasses abandoned gear (left unattended in the ocean) that can ensnare marine wildlife, trapping them in a manner that oftentimes leads to death from wounds or starvation. Building off this base, I efficiently summarized the topic in my website.

Oleson, Peter, and Taryn. "Pacnet #52 – the Growing Crisis of Illegal, Unreported, and Unregulated Fishing." *Pacific Forum*, 28 Jan. 2022, pacforum.org/publication/pacnet-52-the-growing-crisis-of-illegal-unreported-and-unregulated-fishing. Accessed 2023.

I used this website to understand illegal fishing, a prominent issue in the modern-day world. Illegal, unreported, and unregulated fishing often happen as a means for economic profit and a lack of concern for the environmental consequences. Illegal fishing was one of the central issues I presented in my project prior to the turning point; thus, this website was vital to the base construction of the section about IUU fishing.

Pew Charitable Trusts. "Estimating the Use of FADs around the World." *The Pew Charitable Trusts*, 6 Nov. 2015, www.pewtrusts.org/en/research-and-analysis/reports/2015/11/estimating-the-use-of-fads-around-the-world. Accessed 2024.

I used this website to gain a basic understanding of FADs, their use, and their prominence across the ocean. FADs are often left unattended, abandoned for marine wildlife to become entangled. Therefore, FADs were necessary to include in my project, and this website allowed me to build a foundational comprehension of the intended use and shortcomings of FADs.