

OCEAN ACTION PROPOSAL LETTER

NAPAT LUANPOLCHAROENCHAI, HAYLEY LAI & ASAKO KITAI

Background

Being England's first ever statutory Marine Nature reserve and the first Marine Conservation Zone, Lundy Island is rich in habitats and distinct ecology. It is the home to Comb Jellyfish, Eunicella verrucosa, Sunfish, and Basking Sharks. The South-East Coast contains many Bottlenose Dolphins, Minke Whales, and Harbour Porpoises, however, **due to increased trade and shipping** within the area and a **lack of alternative maritime power for ships**, the island's **marine life has severely suffered** and so has their **sustainable tourism industry**.

Benefits

By making Lundy Island a Noise Exclusion Zone, the surrounding sea life, the **shipping company, and the tourism industry on the island will benefit**.

Examples of benefits:

- Reduces damage to marine wildlife including stress, deafness, habitat displacement, reduced reproduction and feeding opportunities
- The shipping company can commercialise themselves as a business which advocates for a sustainable cause, henceforth allowing it to stand out from others with similar operations (corporate social responsibility)
- Developing the sustainable tourism industry on Lundy Island (eg. diving)

Solutions

Possible methods of taking part in creating a Noise Exclusion Zone include:

1. Changing the structure of ship propellers and engine
2. Building sound barriers around shipping boats
3. Inspection on ship shafts
4. Docking electronic plugs for ships on the South-East Coast of Lundy Island
5. Enforcing a system to measure and interpret the results of noise levels on ships
6. Preventing the use of auxiliary engines which create noise

Thank you!



Sources

1. "Lundy." Wikipedia, Wikimedia Foundation, 10 Apr. 2019, en.wikipedia.org/wiki/Lundy.
2. Stanley, Ryan R.E., and Paul V.R. Snelgrove. Small but Mighty and Surprisingly Complex: Evaluating Behavior in Larval American Lobster (*Homarus Americanus*). The Lobster Newsletter, 2016, Small but Mighty and Surprisingly Complex: Evaluating Behavior in Larval American Lobster (*Homarus Americanus*), www.researchgate.net/publication/306078975_Small_but_mighty_and_surprisingly_complex_evaluating_behavior_in_larval_American_lobster_Homarus_americanus
3. "Marine Mammals." Lundy Field Society, Lundy Field Society, 2 Apr. 2019, www.lundy.org.uk/index.php/about-lundy/wildlife-in-the-sea/mammals.
4. "Noise Pollution." See the Sea - Noise Pollution In The Ocean, See the Sea.org, see-the-sea.org/topics/pollution/noise/noise_pollution.htm.
5. "OffNoise-Solutions." OffNoise, OffNoise-Solutions GmbH , www.offnoise-solutions.com/.
6. "Wildlife." Lundy Island, The Landmark Trust, www.landmarktrust.org.uk/lundyisland/discovering-lundy/wildlife/.

