

Polperro

About Polperro

Polperro runs both water-based activities and land-based presentations that provide students with a unique and potentially life-changing opportunity to see and experience what makes Port Phillip Bay a precious environment. Heavy emphasis is placed on seeing and informing students about the unique marine life living in the bay, the pressures which Port Phillip Bay faces and the management strategies used and available to protect this environment.

Polperro is able to provide information about the following topics:

- The formation of Port Phillip Bay and the changes that have occurred over time.
- The characteristics of Port Phillip Bay that make it a unique and precious environment.
- The physical processes at work in the bay.
- The marine life present in the bay.
- The physical and human pressures which Port Phillip Bay faces and the impact these have on the marine environment.
- The impact of plastics in our waterways
- The strategies that have been put in place or are available to protect the bay's environment.

Fieldwork exercises for the above can be found in the Environmental change and management section.

Please note that the following sets of fieldwork tasks focuses on plastics in our waterways and more specifically the impacts that plastics can have on the environment of Port Phillip Bay.

To consider:

As mentioned above Polperro offer both water and land based activities. You can choose to do just one or combine the two together.

The water based activities centre on a boat trip around selected areas of Port Phillip Bay. During this trip students will get the opportunity to see examples of the marine life and a chance to snorkel with dolphins and seals. Whilst on board, the experienced crew of Polperro talk to students about the environmental significance of Port Phillip Bay, the marine life that is seen on the trip and the need to manage this environment. If notified, the crew can concentrate their content to suit the focus of your fieldwork trip/class content.

5. On the map below indicate with the use of a key the potential source of plastics entering Port Phillip Bay.

Port Phillip Bay Catchment Areas



Source:

<http://www.bom.gov.au/water/nwa/2015/melbourne/contextual/physicalinformation.shtml>

Alternatively,

What are the sources of plastics entering Port Phillip Bay? (reference to the base map and previous classroom content would be useful here)

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6. Using the identification charts supplied, list and briefly describe the species that you observed or heard about whilst with Polperro. For each of the species identified outline how they could interact with plastics and the impact that this interaction may have.

| Name and key characteristics of the species. Indicate whether they are unique to Port Phillip Bay. | How do these species interact with plastics? | Impacts of plastics on species |
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7. Complete the table below outlining the strategies that exist in the Mornington Peninsula/ Port Phillip Bay to reduce the impacts of plastics and an evaluation of the effectiveness of these strategies.

| Brief description of the strategies implemented to reduce the impacts of plastics in Port Phillip Bay | Effectiveness of these strategies (consider factors such as the sustainability of the strategy and whether the strategy achieves the goals set) |
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