

You operate a marine salvage and recovery firm based in Perth, Australia.

- What are the longitude and latitude of Perth?
- An oil tanker ran aground near Mauritius last year. What are the longitude and latitude of Mauritius? It is fine to give approximate values.
- A large cargo ship sank near Sri Lanka recently. What are the longitude and latitude of Sri Lanka?
- Construct vectors exhibiting the positions of the shipwrecks in relation to Perth.
- The equatorial radius of the Earth is 6378 kilometers. Reckon the straight-line distance between the sites of these shipwrecks.
- Explain your method in simple terms.