Dune profile data analysis – Teacher Notes

BEACHGRASS PROJECT

Visualizing Data

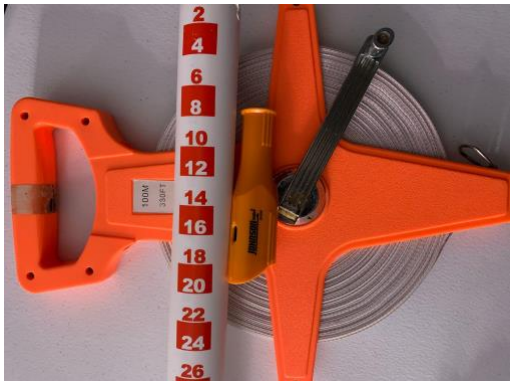
In the Dune Profile activity, students examine survey data from two different dune areas: one that has vegetation on it, and another that has been graded and recently replanted to improve viewshed access. Students will use Dune profile data to complete the activity and answer the worksheet questions. You may decide to upload the dataset to a Google sheet for students to access and copy, enabling them to make and save their own charts directly on the spreadsheet.

A Guide to Forming a Beach Profile Team

If you have access to dunes, then here is a quick and efficient field exercise that is inexpensive to set up and still helps students collect their own field data.

Materials: Print out your beach profile sheet from above with blanks for recording data. Add a pencil and a clipboard for data collection. Mark centimeters on two "profile rods", each two meters in length. We used 1-½ inch PVC marked in cm. You need to use a measuring tape in meters (or convert). We used a 100 meter tape for this project. Here is the checklist:

- A clipboard, pencil, and blank data sheet
- Two 2+ meter tall PVC profile rods with cm tape
- One 10 m+ measuring tape
- One hand level



Methods: To collect data, use this step by step beach profile method. Prior to the beach exercise, have students practice setting up a beach profile in the classroom with their team.

Here are a images of students profiling a dune field on a beach in Lincoln City, Oregon: