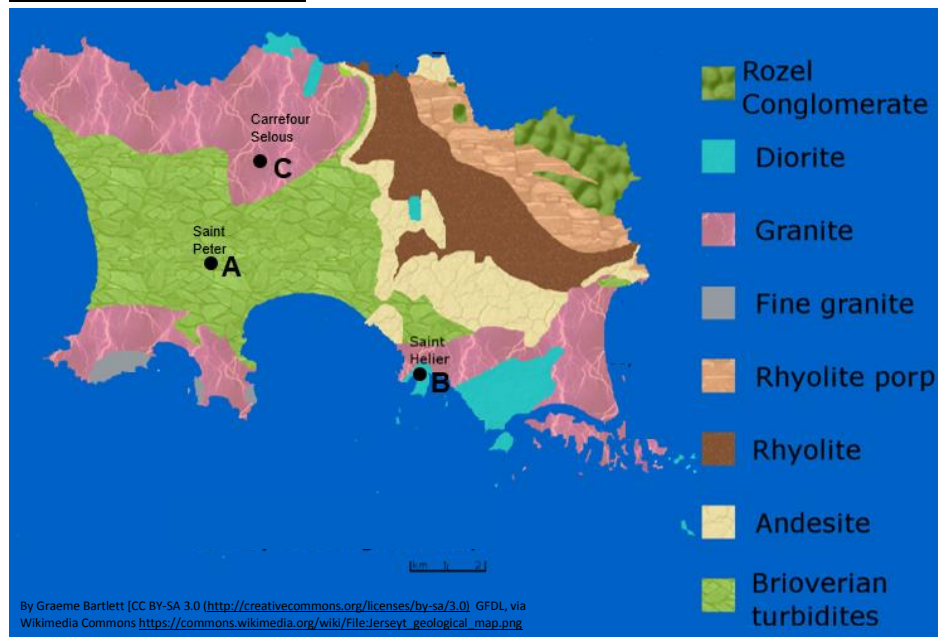


# Paleontology Background Research Answer Key

Jersey is an island off of the coast of Northern France. Use the following geological map to advise a paleontologist team on which of the following sites would be the best location for the team to begin searching for fossils.

## Jersey Geological Map



## Rock Types

### Extrusive Igneous

Rhyolite



Andesite



### Intrusive Igneous

Diorite



Granite



### Sedimentary

Turbidites



Conglomerate



Paleontology Advisor: Student's name

Recommended Fossil Site Location: Site A - St. Peter

## Site Justification:

Responses should include the following key concepts:

- Site A at Saint Peter has brioverian turbidite rocks in the area.
- Turbidite rocks are sedimentary rocks.
- Sedimentary rocks are the type of rocks that most fossils are found.
- Sedimentary rocks are formed by sediment layers building up and pressure causing cementation of the layers. These conditions are favorable to fossils being formed.
- Site B at Saint Helier has diorite rock which is an intrusive igneous rock
- Site C at Carrefour Selous has granite rock which is an intrusive igneous rock.
- Intrusive igneous rocks formed in extreme conditions of magma cooling underground which would not be the correct conditions for fossils to form.

Bonus: None of the site options were in the extrusive igneous rock areas. There would be a very small chance of finding fossil in extrusive igneous rocks. Trace fossils of tracks could be a possibility. Extrusive igneous rock that formed from lava cooling on the surface. Ultimately, sedimentary rocks will be the best place for fossil formation.