

Challenge 5: Using Maps to Analyze a Field Photograph

Thematic Map	Location A (40° north, 74° west)	Location B (76° north, 80° west)	Location C (60° north, 147° west)
Physical Features	<ul style="list-style-type: none"> located on New Jersey coast located on flat coastal plain along the Atlantic Ocean elevation between 0 and 1,000 feet above sea level 	<ul style="list-style-type: none"> located on Ellesmere Island located on Baffin Bay, inside the Arctic Circle mountainous area, with elevation between 2,001 and 5,000 feet above sea level 	<ul style="list-style-type: none"> located near an island in the Gulf of Alaska surrounded by the Alaska Range elevation between 0 and 1,000 feet above sea level
Climate Zones	<ul style="list-style-type: none"> located in humid subtropical climate zone 	<ul style="list-style-type: none"> located in tundra climate zone 	<ul style="list-style-type: none"> located in subarctic climate zone
Vegetation Zones	<ul style="list-style-type: none"> located in coniferous forest vegetation zone 	<ul style="list-style-type: none"> located in ice cap vegetation zone 	<ul style="list-style-type: none"> located in coniferous forest vegetation zone, surrounded by ice cap zone
Population Density	<ul style="list-style-type: none"> population density over 250 people per square mile large urban centers nearby (New York, Philadelphia, Washington, D.C.) 	<ul style="list-style-type: none"> population density under 2 people per square mile no urban centers nearby 	<ul style="list-style-type: none"> population density under 2 people per square mile no urban centers nearby
Economic Activity	<ul style="list-style-type: none"> trade and manufacturing commercial fishing along the coast 	<ul style="list-style-type: none"> little or no economic activity 	<ul style="list-style-type: none"> hunting and gathering petroleum nearby forestry nearby

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We think the field photograph best matches Location C.

Supporting-evidence statements:

1. From the climate zones map, we learned that this location is in a subarctic climate zone.

In the field photograph, we see that even though it seems to be a nice day, the man is wearing a sweater, scarf, hat, and gloves. Also there is snow on the mountains.

2. From the vegetation zones map, we learned that this location is near an island with coniferous forests, but surrounded by ice cap.

In the field photograph, we see mountains with trees, but also with snow.

3. From the economic activity map, we learned that this location is near petroleum resources.

In the field photograph, we see a man holding an oar covered in oil. He appears to be cleaning up an oil spill. The red float is containing the oil-covered water. Outside the float, the water looks clean.

4. From the population density map, we learned that this location has a population density of under 2 people per square mile. **Another possible answer:** From the physical features map, we learned that this location is near an island with an elevation between 0 and 1,000 feet, surrounded by mountains, near the Gulf of Alaska.

In the field photograph, we see no buildings or houses on the land beyond the boat, suggesting that not many people live in this area. **Another possible answer:** In the field photograph, we see a man in a boat on a large body of water, with low mountains behind him.