# Optional Assessment 5B: Belize ICZM Plan Map Viewers

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**Instructions**

- Copy and paste the following URL into your web browser: http://www.geointerest.frih.org/NatCap
- Navigate to the layers panel in the upper-left corner of map window and turn off all map layers EXCEPT 1) Habitat Types, 2) Coastal Planning Regions and 3) InVEST Outputs >> Coastal Vulnerability.
- Locate Turneffe Atoll by moving your cursor over the different coastal planning regions.

**Q1:** Based on the map, which variable included in the coastal exposure index is most likely driving down exposure to the low-medium range (blue and orange dots) around Turneffe Atoll? For more information about bio-geophysical variable in the InVEST coastal vulnerability model, see "How it Works" section of the user guide.

a) Relief
b) Natural habitats
c) Surge potential
d) Geomorphology

**Q2:** Zoom out with the (+/-) buttons to show the entire nation of Belize in your map window. Notice the most exposed areas (red dots) along the mainland of Belize. Based on your understanding of the different variables used to compute the exposure index, which factor(s) are most likely driving up exposure in these red areas?

a) Relief
b) Geomorphology
c) Surge potential
d) Wave/wind exposure

**Instructions**

- Copy and paste the following URL into your web browser: http://www.geointerest.frih.org/WWF
- Click inside the black outlined polygons to display each planning region's name.
- Use the rectangle draw button to create a box around the each of the following planning regions: 1) Ambergris Caye and 2) Turneffe Atoll. Complete the first shape and note the population statistics in the side panel before creating the second shape.

**Q3:** Approximately how many more people are at reduced risk in Ambergris Caye as compared to Turneffe Atoll due to the shoreline buffering (protection service) provided by coastal and marine habitats?

_____ people at reduced risk in Ambergris Caye
_____ people at reduced risk in Turneffe Atoll

**Q4:** Based on the information provided in the side panel under the Population and Tourism Summary header, which factor is likely driving this large difference in risk reduction between habitats present along Amerbergris Caye versus Turneffe Atoll? *Hint: It has to do with social vulnerability.*

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