“Ocean Floor Features”
Ocean Floor

3 Regions:
1. Continental Margins
2. Ocean Basin Floor
3. Mid-Ocean Ridge
Continental Margin

- “Margin” = Edge
- Between continent & ocean

Pacific Margin

Atlantic Margin
1. **Continental Shelf**
   - Gentle slope away from shore
   - Resources! (Gas, oil, gravel!)

2. **Continental Slope**
   - Steep!
   - Submarine Canyons!

2. **Continental Rise**
   - Medium steep...
Submarine Canyons

- Continental Slope!

- **Turbidity Currents**
  - Water + sand = heavy
  - Movement ➔ Erosion ➔ Canyons
Ocean Basin Floor

- Between margin & ridge
- 30% Earth’s Surface
# Ocean Basin Floor

## 1. Deep-Ocean Trenches
- Subduction zones
- Super deep! (<10,000m)

## 1. Abyssal Plains
- Flattest Places on Earth!

## 3. Seamounts
- Submerged volcanoes

## 4. Guyots
- Inactive Seamounts
Mid-Ocean Ridges

- Underwater Mountains
- Center of Ocean

- Seafloor Spreading – Divergent Plate Boundary – New crust formed – "Scab"
- Hydrothermal Vents – Hot water due to rising magma
<table>
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<tr>
<th>1. Continental Margin</th>
<th>8. Seamount</th>
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<td>9. Guyot</td>
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<td>3. Continental Slope</td>
<td>10. Mid-Ocean Ridge</td>
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<td>5. Ocean Basin Floor</td>
<td>12. Hydrothermal Vent</td>
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<td>6. Deep-Ocean Trench</td>
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<td>7. Abyssal Plain</td>
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</table>
**Continental Margin**
- Edge between continent & Ocean

**Continental Shelf**
- Gentle Slope away from shore
- Lots of resources!

**Continental Slope**
- Steep Slope!
- Submarine canyons!

**Continental Rise**
- Medium steep
- Connects to ocean basin floor.

**"My Own Private Ocean"**