

## Section 6-4 Charting a Course for the Future (pages 157-160)

### Key Concept

- What are two types of global change of concern to biologists?

### **Ozone Depletion** (pages 157-158)

1. Where is ozone concentrated in the atmosphere? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. What is causing the problem of ozone depletion? \_\_\_\_\_  
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\_\_\_\_\_

### **Global Climate Change** (page 159)

3. What is global warming? \_\_\_\_\_  
\_\_\_\_\_

4. What is the most widely accepted hypothesis about the cause of global warming?  
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\_\_\_\_\_  
\_\_\_\_\_

5. If global warming continues at the current rate, how might sea level be affected?  
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### **The Value of a Healthy Biosphere** (page 160)

6. What goods and services does a healthy biosphere provide to us? \_\_\_\_\_  
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\_\_\_\_\_

7. What is the first step in charting a course that will improve living conditions without harming the environment? \_\_\_\_\_  
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**Chapter 6 Humans in the Biosphere** **Section Review 6-4**

**Reviewing Key Concepts**

**Short Answer** *On the lines provided, answer the following questions.*

1. What important factor does the ozone layer serve in Earth's atmosphere?  
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\_\_\_\_\_
2. Why are scientists concerned about the depletion, or thinning, of the ozone layer?  
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\_\_\_\_\_
3. What is global warming?  
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4. Why are scientists concerned about the effect of global warming on the atmosphere?  
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**Reviewing Key Skills**

5. **Applying Concepts** Why is it important to phase out the use of chlorofluorocarbons (CFCs)?  
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6. **Applying Concepts** Describe three possible effects of global warming.  
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**Applying Concepts** List three services that ecosystems provide.

7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. **Problem Solving** Identify one change humans can make to help solve ecological problems.  
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