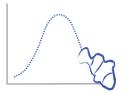
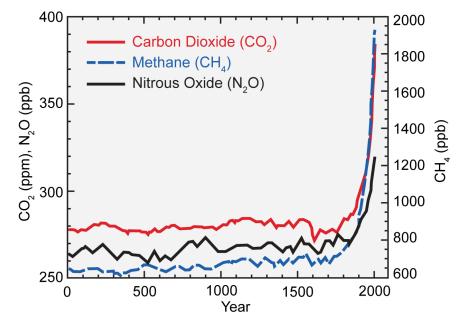
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Healthy Oceans: Coral Reefs and Climate ChangeMath and Computational Challenges



How has the amount of carbon dioxide in the atmosphere changed over time? Why do we attribute the most recent (since the 19th century) increase in CO_2 to human activities?

- 1. Look at the graph¹ below from the 2014 U.S. National Climate Assessment. Calculate the average rate of change of carbon dioxide (CO_2) in the atmosphere between the following time periods:
- (a) 1000-1650
- (d) 1800-1900
- (b) 1650-1750
- (e) 1900-2000
- (c) 1750-1800



2. Compare the rates between the different time periods—are they similar or different? Why do you think this is? What kinds of things have happened in the world during these different time periods that could explain any differences?