## **WILLIAM F. RUDDIMAN**

## EARTH'S CLIMATE PAST and FUTURE

**SECOND EDITION** 

**CHAPTER 1** 

Overview of Climate Science





Part I Opener

Earth's Climate: Past and Future, Second Edition

© 2008 W. H. Freeman and Company



Part I Opener part 1

Earth's Climate: Past and Future, Second Edition

© 2008 W. H. Freeman and Company



Part I Opener part 2

Earth's Climate: Past and Future, Second Edition

© 2008 W. H. Freeman and Company

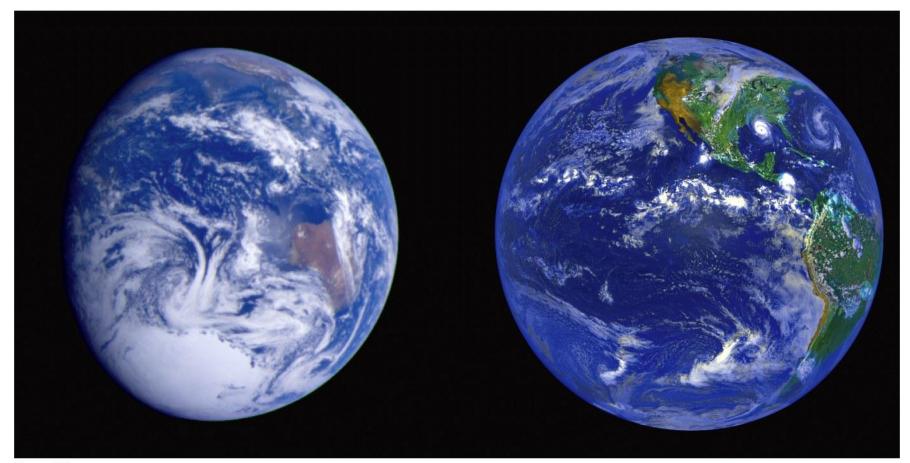
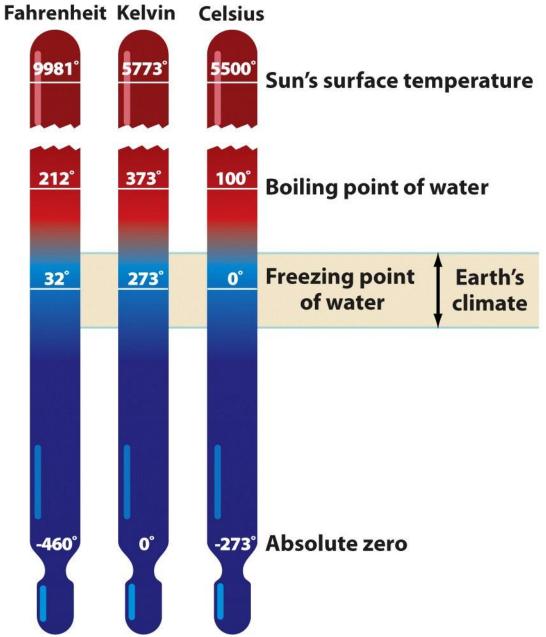


Figure 1-1

Earth's Climate: Past and Future, Second Edition
© 2008 W. H. Freeman and Company



Box 1-1
Earth's Climate: Past and Future, Second Edition
© 2008 W. H. Freeman and Company

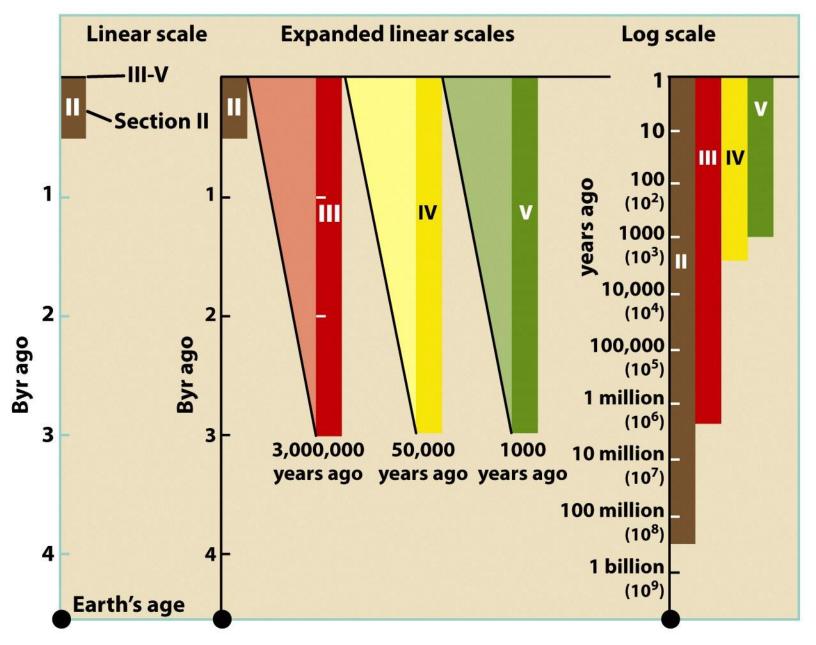


Figure 1-2
Earth's Climate: Past and Future, Second Edition
© 2008 W. H. Freeman and Company

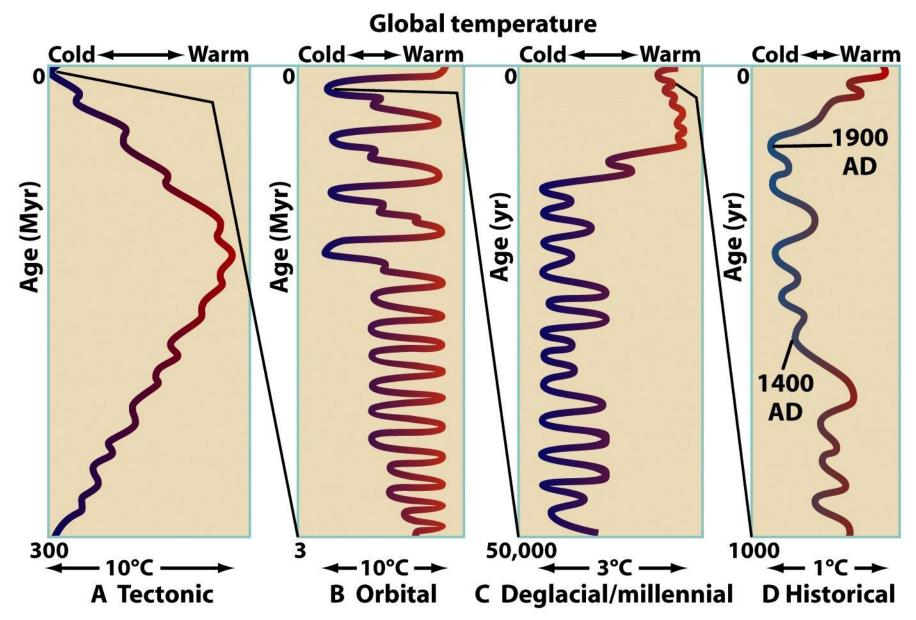


Figure 1-3

Earth's Climate: Past and Future, Second Edition

© 2008 W. H. Freeman and Company

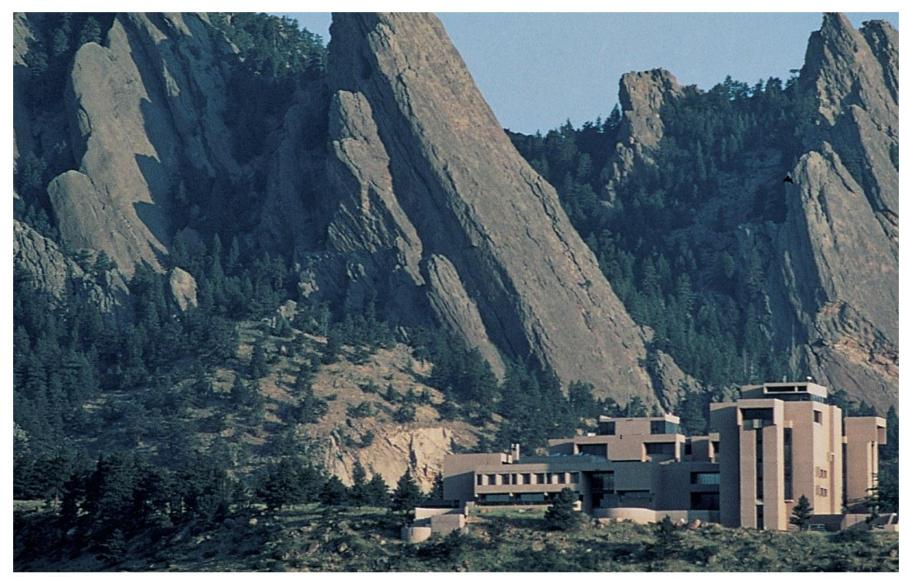


Figure 1-4

Earth's Climate: Past and Future, Second Edition
© 2008 W. H. Freeman and Company

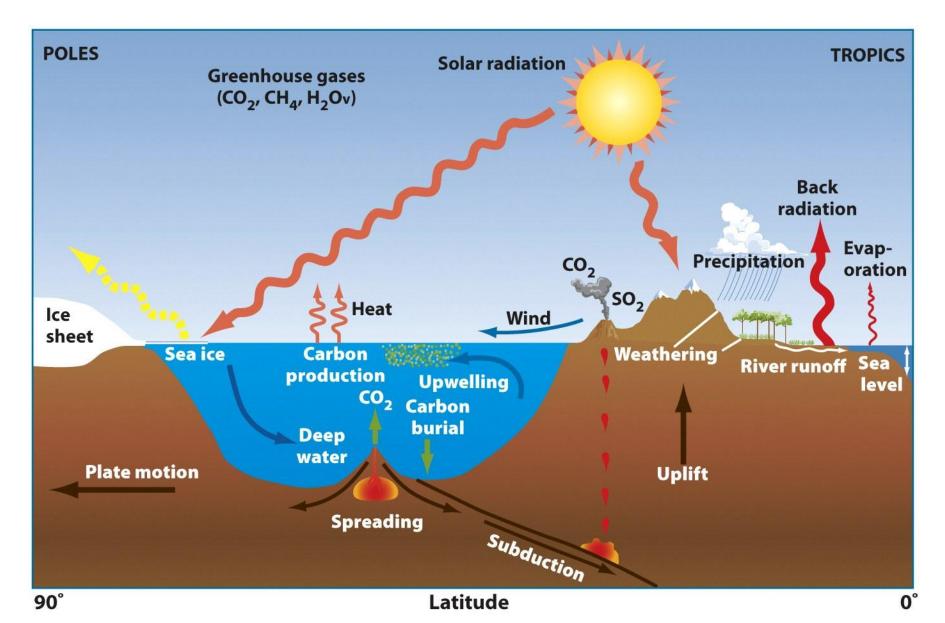


Figure 1-5 part 1

Earth's Climate: Past and Future, Second Edition

© 2008 W. H. Freeman and Company

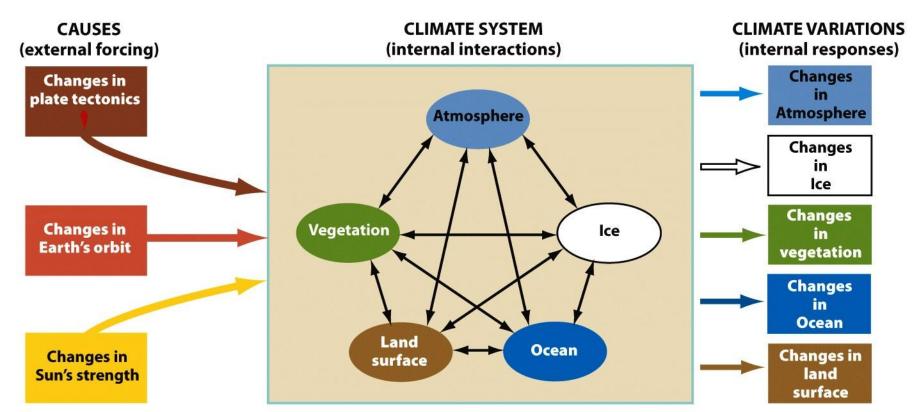


Figure 1-5 part 2

Earth's Climate: Past and Future, Second Edition

© 2008 W. H. Freeman and Company

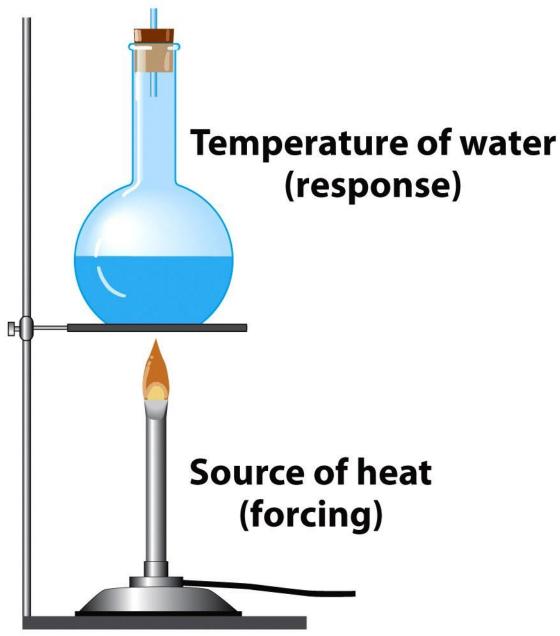


Figure 1-6a
Earth's Climate: Past and Future, Second Edition
© 2008 W. H. Freeman and Company

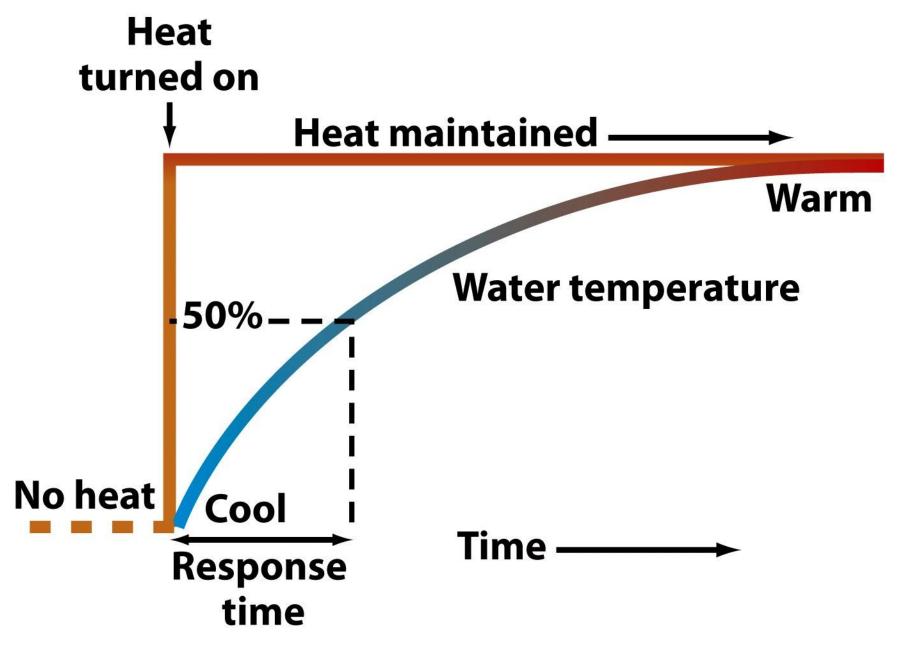


Figure 1-6b

Earth's Climate: Past and Future, Second Edition

© 2008 W. H. Freeman and Company

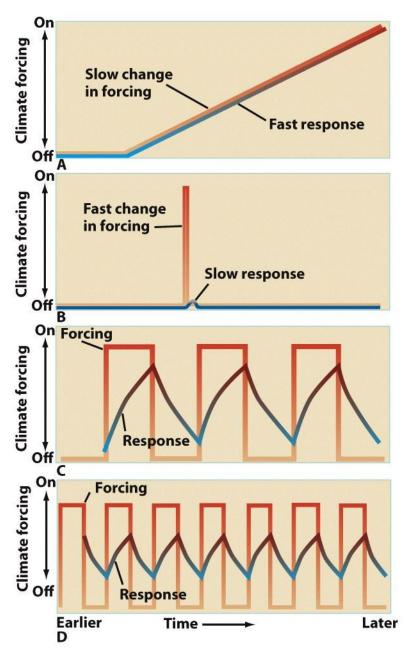
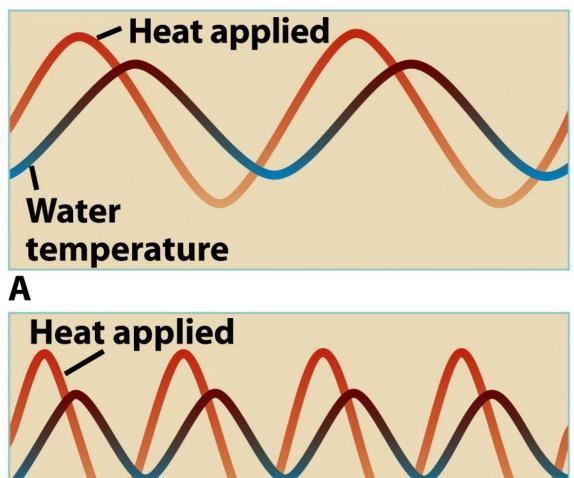


Figure 1-7
Earth's Climate: Past and Future, Second Edition
© 2008 W. H. Freeman and Company



Water temperature

B Time

Figure 1-8

Earth's Climate: Past and Future, Second Edition
© 2008 W. H. Freeman and Company

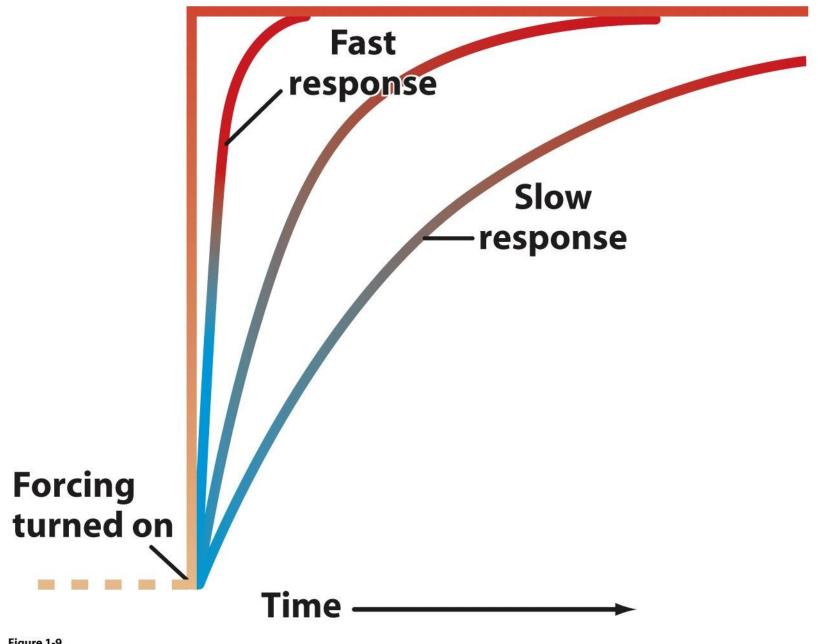


Figure 1-9
Earth's Climate: Past and Future, Second Edition
© 2008 W. H. Freeman and Company

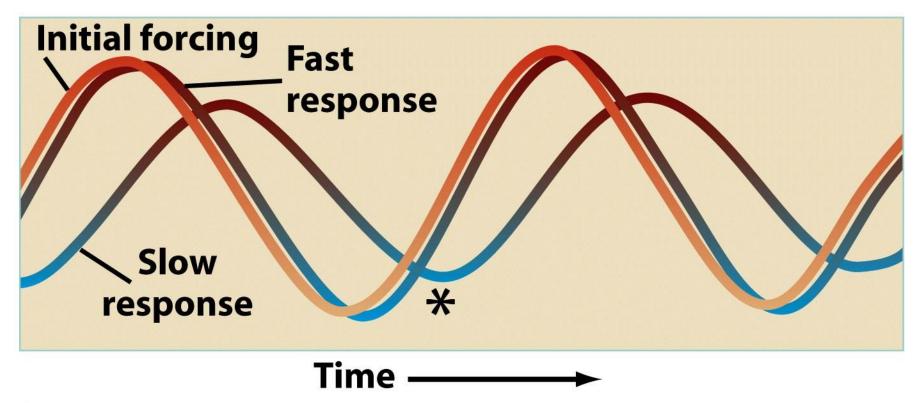
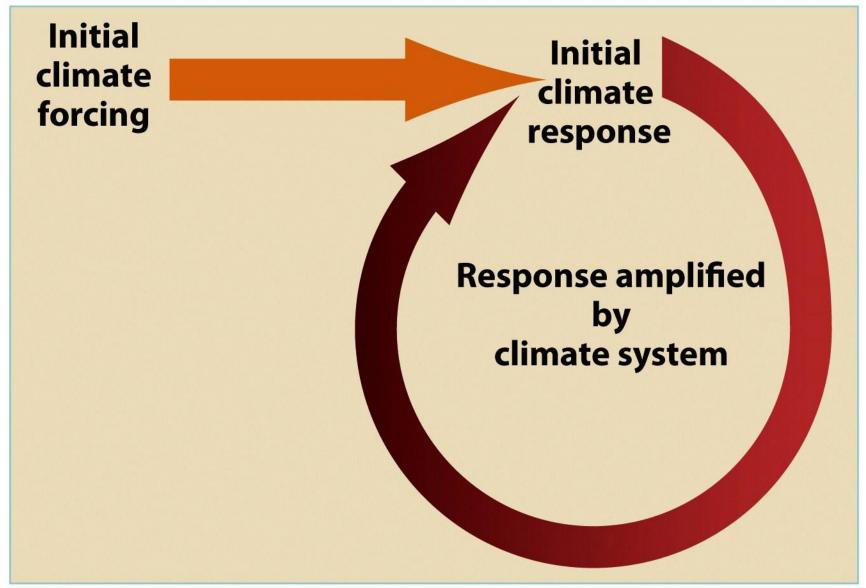
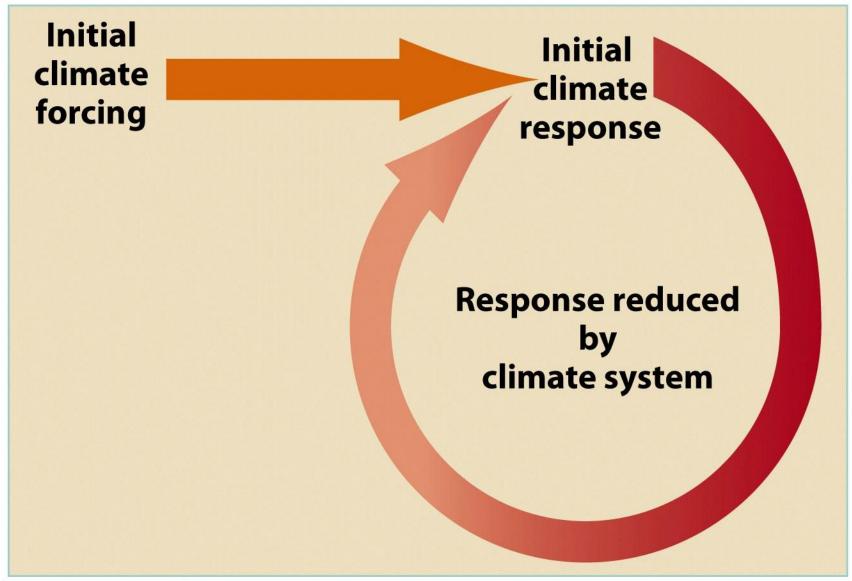


Figure 1-10

Earth's Climate: Past and Future, Second Edition
© 2008 W. H. Freeman and Company



## **Positive feedback**



## **Negative feedback**