How do changes in temperature affect marine food webs?

- **SUN**
  - Light
    - Ocean Upper Layer
      - Warm temperatures create shallow upper water layers
    - Deep Ocean
      - distinct upper water layers keep algae in the light for a longer of time
    - Evolutionary History
      - Affects the timing of the reproduction
        - Adult Fish
          - Food for other organisms
            - Egg Hatching
              - Fish Larvae Live
              - Fish Larvae Die
                - Small Animals (Zooplank.)
                  - "On Time" Early Late
                - Algae Primary Producers
                  - "On Time" Early Late

- Temperature
- Climate Change

Dr. David Fields: Original map created at the Graduate Student / Faculty Collaborative Workshop on 01/29/10.