

Group D Temperature

Background:

- Massive fish die-offs due to stretches of warm weather that are sometimes coupled with algal blooms are not unusual in stagnant areas of the tropical seas. However, finding this event in subtropical regions is disturbing as in several recent massive die-offs. With increasing signs of global warming, the acute rise in temperature on small bodies of water may become a more frequent occurrence.
- A multitude of factors affect the survival of fish. Oxygen and temperature levels are pivotal influences on a fish's life. Fish, being ectothermic, bear a strong reliance on its surrounding temperature. Metabolism increases proportionately with temperature. Hence, in warmer temperatures, fish tend to be more active and consume more oxygen, while under cooler temperatures the opposite is true. Consequently, temperature changes can have a strong influence on fish survival.

Question:

How would acute increase in temperature affect the respiratory rate and ammonia production in fish?

Members:

- Christina
- Chris P
- Madori
- Natalie