EARTH SCIENCE 2020/2021 **HOMEWORK #19**

PLEASE SUBMIT YOUR WORK THROUGH GOOGLE CLASSROOM

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1. **Review Slides #1-2 and #6-8 of Lecture 19. Study the last slide (Ocean Layers).**

2. **First let us consider <u>equatorial ocean waters</u>:**

    a. **What is the approximate <u>ocean *surface* temperature at the equator</u>?**

    b. **What is the <u>temperature of water in the *deep* close to the bottom</u>?**

    c. **Is there a big difference? If yes, <u>why</u>?**

3. **Now let us consider <u>ocean waters within the *Arctic or Antarctic circle*</u>:**

    a. **What is the approximate <u>ocean *surface* temperature in the Arctic (look right next to ice boundary) or around the Antarctic continent</u>?**

    b. **What is the <u>temperature of water in the *deep* close to the bottom</u>?**

    c. **Is there a big difference? If no, <u>why</u>?**

4. **What <u>natural processes</u> can result in a <u>local *increase* of salinity</u> in the ocean?**

5. **What <u>natural processes</u> can result in a <u>local *decrease* of salinity</u> in the ocean?**