

Small Scale Air-Sea Interaction

ATMO/OCN 665

Kelvin Richards

Fall 2022

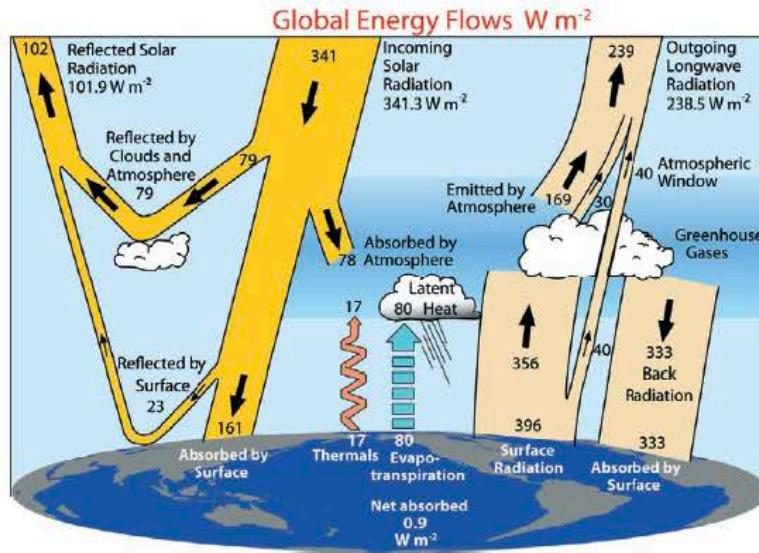
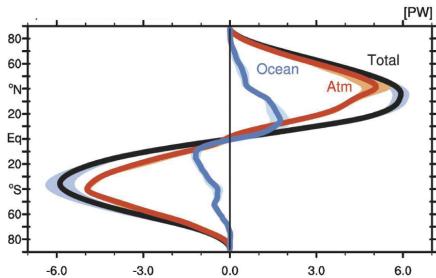


FIG. 1. The global annual mean Earth's energy budget for the Mar 2000 to May 2004 period (W m^{-2}). The broad arrows indicate the schematic flow of energy in proportion to their importance.



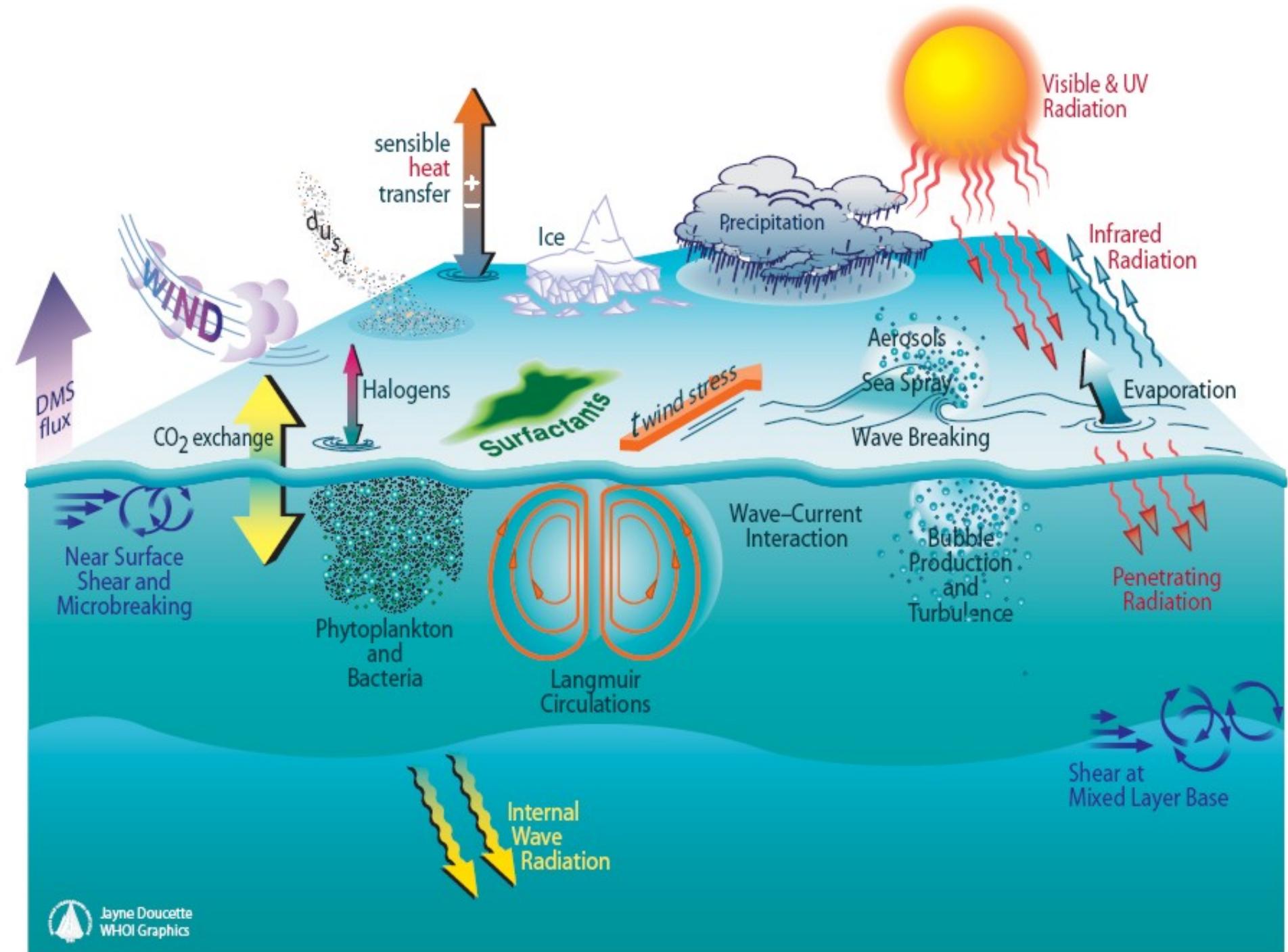
EARTH'S GLOBAL ENERGY BUDGET

BY KEVIN E. TRENBERTH, JOHN T. FASULLO, AND JEFFREY KIEHL

An update of the Earth's global annual mean energy budget is given in the light of new observations and analyses. Changes over time and contributions from the land and ocean domains are also detailed.



J.M.W. Turner 1805



Course Outline

ATMO/OCN665

- I. Motivation**
- II. Basic Physics**
- III. Turbulence**
- IV. Boundary Layer Theory**
- V. Waves on the Interface**
- VI. Atmospheric Mixed Layer**
- VII. Ocean Mixed Layer**
- VIII. Gas Transfers**
- IX. Deep Convection**
- X. Storms**
- XI. Ocean Fronts**

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Grading:

Term paper 50%

Contribution + Homework 50%

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Materials:

<ftp://ftp.soest.hawaii.edu/kelvin/OCN665/>

First up: Turbulence

