

Name: \_\_\_\_\_

### Oceans, Atmosphere, and Climate Quiz

Directions: Match the vocabulary words to their correct definitions. Each letter and definition will only be used once.

\_\_\_\_\_ The imaginary line that divides Earth into northern and southern hemispheres.

\_\_\_\_\_ General weather patterns over a longer period of time.

\_\_\_\_\_ A climate pattern where water near the equator gets hotter than usual and affects the weather around the world.

\_\_\_\_\_ To move from one object to another or from one place to another.

\_\_\_\_\_ Any of Earth's main continuous areas of land, such as Africa, Asia, and North America.

\_\_\_\_\_ Ocean water flowing in a continuous path

\_\_\_\_\_ The distance of any place north or south of the Earth's equator.

\_\_\_\_\_ The ability to make things move or change.

\_\_\_\_\_ A measure of how hot or cold something is.

A. Climate

B. Continent

C. El Niño

D. Energy

E. Equator

F. Latitude

G. Ocean current

H. Temperature

I. Transfer

Directions: Mark a "T" for the true statements and an "F" for the false statements.

\_\_\_\_\_ El Niño happens every year.

\_\_\_\_\_ Antarctica is the coldest continent in the world.

# Answers For Earth Science Oceans Atmosphere

**Peter S. Liss, Martin T. Johnson**



## **Answers For Earth Science Oceans Atmosphere:**

Ocean-Atmosphere Interactions of Gases and Particles Peter S. Liss, Martin T. Johnson, 2013-12-18 The oceans and atmosphere interact through various processes including the transfer of momentum heat gases and particles In this book leading international experts come together to provide a state of the art account of these exchanges and their role in the Earth system with particular focus on gases and particles Chapters in the book cover i the ocean atmosphere exchange of short lived trace gases ii mechanisms and models of interfacial exchange including transfer velocity parameterisations iii ocean atmosphere exchange of the greenhouse gases carbon dioxide methane and nitrous oxide iv ocean atmosphere exchange of particles and v current and future data collection and synthesis efforts The scope of the book extends to the biogeochemical responses to emitted deposited material and interactions and feedbacks in the wider Earth system context This work constitutes a highly detailed synthesis and reference of interest to higher level university students Masters PhD and researchers in ocean atmosphere interactions and related fields Earth system science marine atmospheric biogeochemistry climate Production of this book was supported and funded by the EU COST Action 735 and coordinated by the International SOLAS Surface Ocean Lower Atmosphere Study project office **Tropical Ocean-atmosphere**

**Newsletter** ,1980 **Flexible Global Ocean-Atmosphere-Land System Model** Tianjun Zhou, Yongqiang Yu, Yimin Liu, Bin Wang, 2013-11-19 Coupled climate system models are of central importance for climate studies A new model known as FGOALS the Flexible Global Ocean Atmosphere Land System model has been developed by the State Key Laboratory of Numerical Modeling for Atmospheric Sciences and Geophysical Fluid Dynamics Institute of Atmospheric Physics Chinese Academy of Sciences LASG IAP CAS a first tier national geophysical laboratory It serves as a powerful tool both for deepening our understanding of fundamental mechanisms of the climate system and for making decadal prediction and scenario projections of future climate change Flexible Global Ocean Atmosphere Land System Model A Modeling Tool for the Climate Change Research Community is the first book to offer systematic evaluations of this model s performance It is comprehensive in scope covering both developmental and application oriented aspects of this climate system model It also provides an outlook of future development of FGOALS and offers an overview of how to employ the model It represents a valuable reference work for researchers and professionals working within the related areas of climate variability and change Prof Tianjun Zhou Yongqiang Yu Yimin Liu and Bin Wang work at LASG the Institute of Atmospheric Physics Chinese Academy of Sciences China *A Guide to NASA's Earth Science Enterprise and the Earth Observing System*, NP-1999-08-134-GSFC, 1999 *EOS Reference Handbook* ,1999 Earth Science Reference Handbook ,2006 *Microwave Radiation of the Ocean-Atmosphere* Alexander Grankov, Alexander Milshin, 2009-12-03 We will show in this monograph some possibilities of using the potential of satellite passive microwave radiometric methods for the analysis of variations of heat and dynamic processes in the ocean atmosphere interface in a wide range of time scales from mesometeorological hours daily

to seasonal month and multiyear climatic ones The most essential mechanisms of intercommunication of natural microwave radiation of the system ocean atmosphere SOA with the vertical turbulence fluxes of sensible latent heat as well as the momentum at the boundary of the SOA are studied We will consider the turbulence heat fluxes as the factors generated by the c otic movements in the atmosphere when every small individual part of air is moved irregularly Here one can observe a transfer of the energy from large scale to sma scales the average distance between the air particles is increased with a time Also the potential of remote sensing the characteristics of heat and water adv tion and their accumulation in the atmosphere boundary layer are demonstrated In these studies we mean mainly the middle and high latitudes of the North Atlantic which are forming the weather conditions and climatic trends over Europe and European territories of the Russia

**Commerce, Justice, Science, and Related Agencies Appropriations for 2012** United States. Congress. House. Committee on Appropriations. Subcommittee on Commerce, Justice, Science, and Related Agencies,2011 Research and Technology Objectives and Plans Summary ,1992 A compilation of the summary portions of each of the RTOPs used for management review and control of research currently in progress throughout NASA P i **Causes and Consequences of Globally Warm Climates in the Early Paleogene** Scott L. Wing,2003-01-01 *Monthly Weather Review* ,1997 *EOS Reference Handbook* ,1999 *1999 EOS Reference Handbook* ,1999 **NASA Authorizations** United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science, Technology, and Space,1990 **Tagung Physik der Atmosphäre, Schwerin, 8. bis 11. November 1982, Teil II** ,1986-01-14 Keine ausf hrliche Beschreibung f r Tagung Physik der Atmosph re Schwerin 8 bis 11 November 1982 Teil II verf gbar **Effects of Climate Change and Ocean Acidification on Living Marine Organisms** United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Oceans, Atmosphere, Fisheries, and Coast Guard,2013 *Encyclopedia of GIS* Shashi Shekhar,Hui Xiong,2007-12-12 The Encyclopedia of GIS provides a comprehensive and authoritative guide contributed by experts and peer reviewed for accuracy and alphabetically arranged for convenient access The entries explain key software and processes used by geographers and computational scientists Major overviews are provided for nearly 200 topics Geoinformatics Spatial Cognition and Location Based Services and more Shorter entries define specific terms and concepts The reference will be published as a print volume with abundant black and white art and simultaneously as an XML online reference with hyperlinked citations cross references four color art links to web based maps and other interactive features

**Earth Science and Applications from Space** National Research Council,Division on Engineering and Physical Sciences,Space Studies Board,Committee on Earth Science and Applications from Space: A Community Assessment and Strategy for the Future,2007-10-01 Natural and human induced changes in Earth s interior land surface biosphere atmosphere and oceans affect all aspects of life Understanding these changes requires a range of observations acquired from land sea air and space based platforms To assist NASA NOAA and USGS in developing these tools the NRC was asked to

carry out a decadal strategy survey of Earth science and applications from space that would develop the key scientific questions on which to focus Earth and environmental observations in the period 2005 2015 and beyond and present a prioritized list of space programs missions and supporting activities to address these questions This report presents a vision for the Earth science program an analysis of the existing Earth Observing System and recommendations to help restore its capabilities an assessment of and recommendations for new observations and missions for the next decade an examination of and recommendations for effective application of those observations and an analysis of how best to sustain that observation and applications system

**Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations for 2004: Office of Science and Technology Policy** United States. Congress. House. Committee on Appropriations. Subcommittee on VA, HUD, and Independent Agencies,2003 **Earth Science in the Urban Ocean** Homa J. Lee,William R. Normark,2009 Section 1 deals with surficial seafloor mapping and characterization Sections 2 and 3 deal with fundamental geologic and oceanographic processes that introduce transport and deposit sediment particles and contaminants in the Southern California Bight T *108-1 Hearings: Departments of Veterans Affairs and Housing and Urban Development, and Independent Agencies Appropriations For 2004, Part 4, February 27, 2003, \**,2003

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