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# Atmosphere And Ocean Our Fluid Environments

**the ocean-atmosphere system - tulane** - the ocean-atmosphere system the ocean-atmosphere system the oceans and the atmosphere are the two large reservoirs of water in the earth's hydrologic cycle. the two systems are complexly linked to one another and are responsible for earth's weather and climate. the oceans help to regulate temperature in the lower part of the atmosphere. **the atmosphere: the ocean of air above us** - the atmosphere: the ocean of air above us the earth is surrounded by an ocean of gases we call the atmosphere. the atmosphere is important because it contains the air most living things breathe. it also absorbs heat energy from the sun. it even recycles water by returning it back to the earth as rain. **ocean-atmosphere coupling - yale university** - behind active ocean-atmosphere coupling is straightforward: a large-scale anomaly of sea surface temperature (sst) induces diabatic heating or cooling of the atmosphere, which alters atmospheric circulation and hence the wind stress and heat fluxes at the ocean surface. **decadal atmosphere-ocean variations in the pacific - cgd** - trenberth and hurrell: pacific atmosphere-ocean variations 305 2 north pacific large-scale observed trends most presentations of climate change focus on the surface variables of importance to man, in particular temperature and precipitation. however, to understand **lecture 16: the ocean heat transport - stanford university** - lecture 16: the ocean heat transport atmosphere, ocean, climate dynamics eess 146b/246b. heat transport in the atmosphere-ocean climate system heat in heat out heat out •the movement of air in the atmosphere and water in the ocean both act to regulate the earth's climate, keeping the temperatures on the earth from being **atmosphere - ocean interactions overview** - atmosphere - ocean interactions in a nutshell climate relevant gases co<sub>2</sub>, o<sub>2</sub>, dms, ... wet and dry deposition iron, acid rain, no<sub>x</sub> temperature - greenhouse effects cloud microphysics **carbon dioxide - oceans and the atmosphere** - carbon dioxide - oceans and the atmosphere reading: libes, chapter 15, pp. 389 - 394 (remainder of chapter will be used with the class "biogenic production, carbonate saturation and sediment distributions") ... • co<sub>2</sub> in the ocean is ~53x greater than in the atmosphere **atmospheric and oceanic circulation** - atmospheric and oceanic circulation. atmospheric circulation transfers energy and mass over the earth redistributes surplus energy along the tropics to deficit areas generates weather patterns produces ocean currents spread natural and anthropogenic pollution ... motion, size and number of air molecules within the atmosphere determine the ... **waves in the atmosphere and oceanswaves in the atmosphere** ... - atmosphere-ocean system tends to adjust to equilibrium. • the adjustment processes are most easily understood in the absence of driving forces. suppose, for instance, that the sun is "switched off," leaving the atmosphere and ocean with some non-equilibrium distribution of properties. • how will they respond to the gravitational restoring ... **atmosphere-warm ocean interaction and its impacts on asian** ... - atmosphere-warm ocean interaction may significantly modify the impacts of remote el nin<sup>o</sup> forcing and should be regarded as one of the physical factors that determine the variability of the a-am. during the summer of el nin<sup>o</sup> development, the remote el nin<sup>o</sup> forcing plays a major role in the a-am anomalies that exhibit obvious ... **estimates of meridional atmosphere and ocean heat transports** - estimates of meridional atmosphere and ocean heat transports kevin e. trenberth and julie m. caron national center for atmospheric research,\* boulder, colorado (manuscript received 8 november 2000, in final form 21 february 2001) abstract new estimates of the poleward energy transport based on atmospheric reanalyses from the national centers **impact of explicit atmosphere-ocean coupling on mjo-like** ... - the atmosphere and the ocean on the development and maintenance of mjo-like systems. the next section describes the numerical model and provides basic information about the simulations. model results are presented in sections 3 and 4, where the impact of the atmosphere-ocean coupling on, respectively, the devel-

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