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Conferences News About Us Home Journals Books Job: Home > Journal > Earth & Environmental Sciences > IJG Open Special Issues Indexing View Papers Aims & Scope Editorial Board Guideline Article Processing Charges Published Special Issues IJG> Vol.1 No.3, November 2010 • Special Issues Guideline OPEN ACCESS **IJG** Subscription Recent Energy Balance of Earth PDF (Size: 119KB) PP. 99-101 DOI: 10.4236/ijg.2010.13013 Most popular papers in IJG Author(s) About IJG News Robert S. Knox, David H. Douglass **ABSTRACT** Frequently Asked Questions A recently published estimate of Earth' s global warming trend is 0.63 ± 0.28 W/m2, as calculated from ocean heat content anomaly data spanning 1993-2008. This value is not representative of the recent Recommend to Peers (2003-2008) warming/cooling rate because of a "flattening" that occurred around 2001-2002. Using only 2003-2008 data from Argo floats, we find by four different algorithms that the recent trend ranges from -0.010 to -0.161 W/m2 with a typical error bar of ±0.2 W/m2. These results fail to support the existence of Recommend to Library a frequently-cited large positive computed radiative imbalance. Contact Us **KEYWORDS** Energy Balance, Radiative Imbalance, Ocean Heat Content Downloads: 165,241 Cite this paper R. Knox and D. Douglass, "Recent Energy Balance of Earth," International Journal of Geosciences, Vol. 1 No. 3, Visits: 393,483 2010, pp. 99-101. doi: 10.4236/ijg.2010.13013. References Sponsors, Associates, ai [1] J. M. Lyman et al., " Robust Warming of the Global Upper Ocean," Nature, Vol. 465, May 2010, pp. 334-Links >> [2] K. Trenberth and J. Fasullo, "Tracking Earth' s Energy," Science, Vol. 328, March 2010, pp. 316-317. [3] S. E. Wijffels et al., " Changing Expendable Bathythermograph Fall Rates and Their Impact on Estimates of Thermosteric Sea Level Rise," Journal of Climate, Vol. 21, 2008, pp. 5657-5672. [4] J. Willis, D. Chambers and R. Nerem, " Assessing the Globally Averaged Sea Level Budget on Seasonal to Interannual Timescales," Journal of Geophysical Research A, Vol. 113, 2008, p. C06015. [5] J. K. Willis, J. M. Lyman, G. C. Johnson and J. Gilson, "Correction to Recent Cooling of the Upper Ocean', "Geophysical Research Letters, Vol. 34, July 2007, p. L16601. [6] J. Willis (Private Communication, 20 February 2009. The last 5 months are preliminary.) [7] R. Pielke, " A Broader View of the Role of Humans in the Climate System," Physics Today, Vol. 61, No. 11, 2008, pp. 54-55.

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