

Please note special date and time

ATS/CIRA Colloquium

Prof. Emeritus Graeme Stephens

Visiting ATS from JPL

Where is the heat going?

Hosted by Dave Thompson and Sue van den Heever

Thursday, February 12, 2015

**ATS room 101; Discussion will begin at 2:00pm
Refreshments will be served at 1:30pm in the weather lab**

Before the so-called 'climate warming hiatus', the answer to this question seemed certain. But our inability to explain observed changes in surface temperature over the past two decades, and associated sea level rise, ocean heat uptake, and the changes to the planetary energy balance in a physically consistent and connected way has cast doubt on our understanding behind this basic question. In this talk, recent and convincing evidence for where the heat is really going into Earth will be presented, and new insights on understanding the planetary energy balance will be described. A number of surprising features of this heat balance, not reproduced in current Earth system models, will also be highlighted and the significance of these features to the basic question posed will be discussed.

Link to colloquium videos and announcement page: <http://www.atmos.colostate.edu/dept/colloquia.php>