Geophysical Research Abstracts, Vol. 7, 08658, 2005
SRef-ID: 1607-7962/gra/EGU05-A-08658

Enso physics in a simulation of present and future climate

W. CabosNarváez, F. AlvarezGarcía, **M. OrtizBeviá**
Departamento de Física, Edificio Ciencias, Universidad de Alcalá, Alcalá, Madrid,Spain

ENSO variability in two simulations of present and future climatic conditions is analyzed. Both simulations were performed with the same coupled GCM, the ECHAM4-OPYC3 and are a CONTROL and a SCENERIO simulation. ENSO events present in the two runs are identified. Each ENSO event is characterized in term of the values of the heat content anomalies in the tropical Pacific, at times going from 15 months (labelled -15) to the peak of the Niño3 anomalies (labelled 0). Events are then classified with help of an objective procedure. Mechanisms acting on ENSO phase change and/or inhibiting ENSO are compared.