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Atmospheric Chemistry and Physics Discussions

Interactive comment on "A twenty-year study on natural and manmade global interannual fluctuations of cirrus cloud cover" *by* K. Eleftheratos et al.

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1) How exactly are the seasonal and long-term trends removed from the data? 2) Acronyms such as NAO, SOI, ENSO etc should be defined the first time that they appear, with bried explanations of the physics behind them. 3) Don't understand how you can account for the unresolved dynamics/thermodynamics when correlating with NAO. 4) Presumably the ISCCP cirrus data comes from nadir-viewing instruments, which are not well-suited to detecting cirrus in conjunction with other, lower cloud. Can you be sure that the observed correlations in CCC are REAL correlations with atmospheric dynamics and not simply errors in the ISCCP cirrus measurements? 5) Would you expect

any diurnal variability in CCC associated with convection? 6) Overall, a nice review of current understanding of cirrus' global distribution. 7) Not clear how limb sounders like HALOE and SAGE have been used to locate increased cirrus converage during El Nino conditions and at what altitude the cirrus occurrence was.

Interactive comment on Atmos. Chem. Phys. Discuss., 7, 93, 2007.

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