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## ***Interactive comment on “Observed poleward expansion of the Hadley circulation since 1979” by Y. Hu and Q. Fu***

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As part of our meetings we choose a paper to read from ACPD and post comments. Perhaps it would be interesting for you to see how the paper is received by people not in your particular field of atmospheric science.

As a general point, we wondered that even if there were no change in the Hadley circulation, the latitude at which the OLR measures  $250\text{Wm}^{-2}$  could presumably still change due to the increasing  $\text{CO}_2$  concentrations.

Also, we thought it would be worth giving a brief description of what is meant by re-analyses for people who do not commonly use these data-sets.

We were unsure how the tropopause heights in the subtropics are related to the ex-

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pansion of the tropical belt (section 1, line 10).

We wondered what was the lat/lon resolution of the models used to find the edge of the Hadley circulation where MMS equals  $0\text{kg s}^{-1}$ . Particularly in a situation where this location appears to have been determined through interpolation between grid points.

In figure 1 it was not obvious which band the description "tan" refers to, (section 3, line 7). Similarly, we were unsure which band "blue" refers to, (section 3, line 24).

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Interactive comment on *Atmos. Chem. Phys. Discuss.*, 7, 9367, 2007.

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