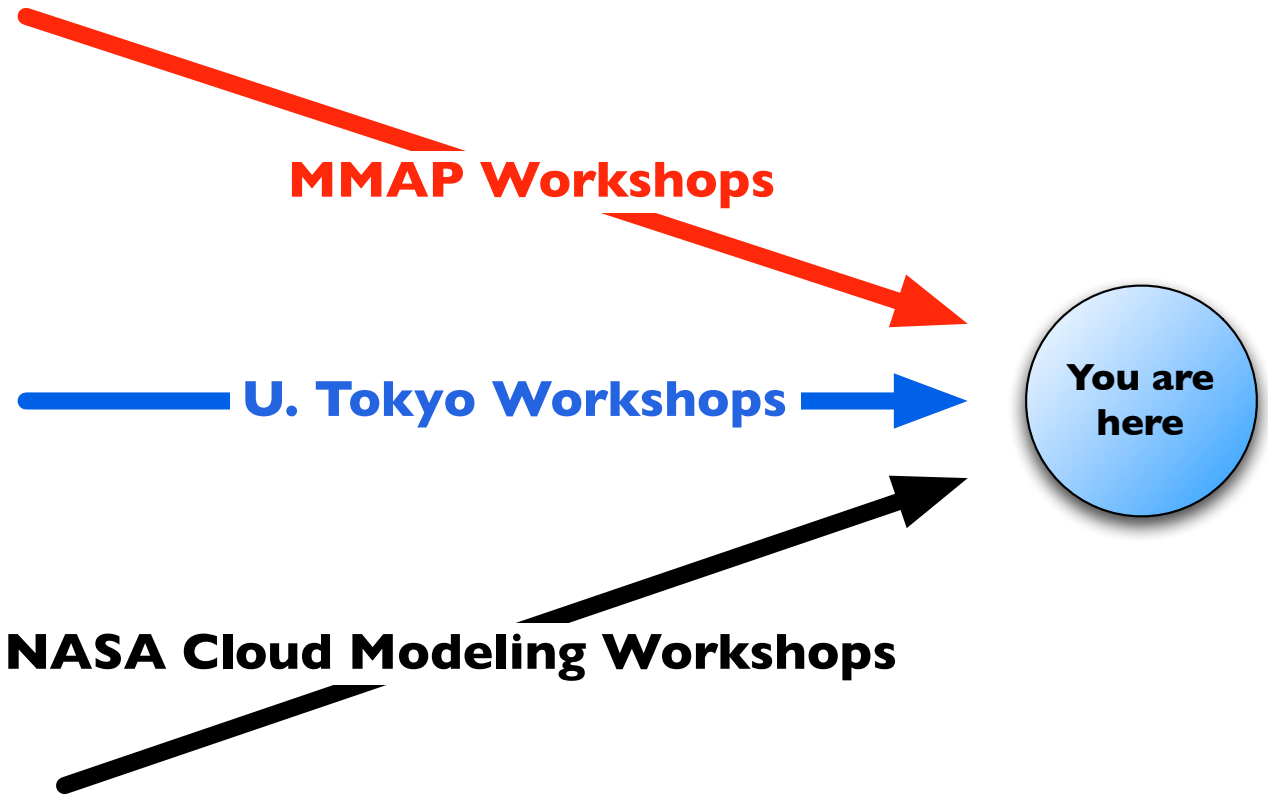
Cloud Modeling 2005:
Count the Clouds.

# Thanks to:


- The various agencies who fund us, and especially to NSF for supporting this Workshop
- Cindy Carrick and Lisa Casuto for making the arrangements for the Workshop
- Kelley Wittmeyer for Limbo Engineering.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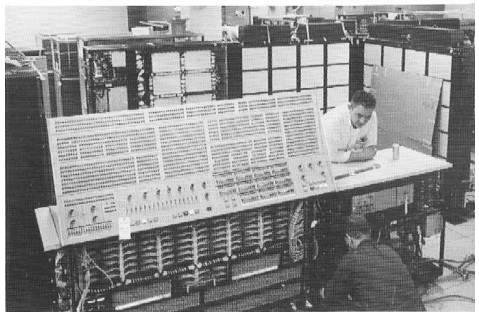
# Regarding MMAP

**I am optimistic.**

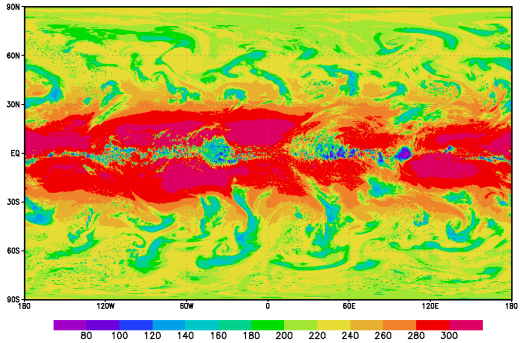
**This has been the Limbo Workshop.**

**Next time we will be in Heaven.**

# Exponential growth

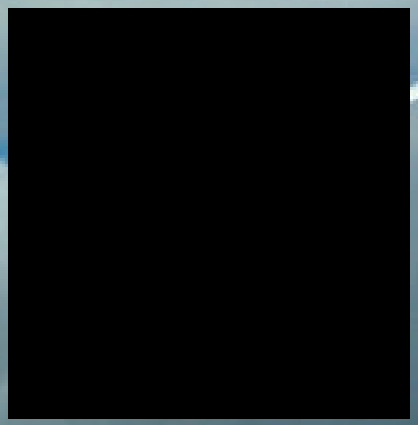


***When I was doing my dissertation during the 1970s, a global atmospheric model delivered about 10 simulated days per day, on an IBM 360/91 -- about 1 MF-year per simulated year. I analyzed a 10-day simulation in my thesis.***

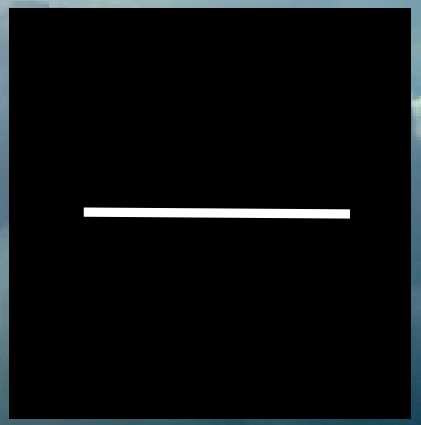



***During this Workshop, we will hear about 10-day simulations that run at the rate of 1 TF-year per simulated year.***

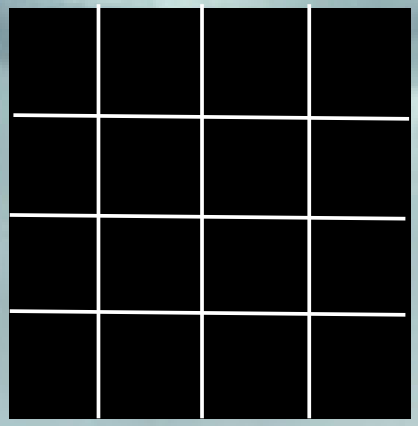
# Fantastic Four



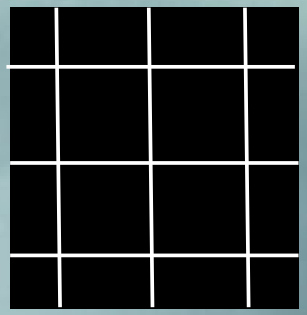
GCMs With "Classical" Parameterizations



MMF



Global CSRM



DARE

**The field is moving forward very rapidly.**

**Some people are going to be left behind.**

**Not us.**