Evaluation of Transport Characteristics of GEOS5 Using Chemistry Transport Simulations of Atmospheric CO2

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Introduction
To utilize space-borne and ground-based atmospheric CO2 measurements, measurements properties, the ability of numerical models to accurately estimate carbon cycle processes must be improved. We evaluate a modeling system to analyze carbon cycle processes and interpret CO2 observations, consisting of forward models of terrestrial photosynthesis, and evaporation, ocean gas exchange, and atmospheric transport.

Methods (Model and Observations)

Land Surface Experiments (SiB)

PCTM - 2004 (sensitivity)

PCTM - 2007 (crops)

Conclusions

Acknowledgements

References

Notes

Figures

Acronyms