

DPS 2001 meeting, November 2001*Session 11. Outer Planet Atmospheres Posters**Displayed, 9:00am Tuesday - 3:00pm Saturday, Highlighted, Tuesday, November 27, 2001, 5:00-7:00pm, French Market Exhibit Hall*[\[Previous\]](#) | [\[Session 11\]](#) | [\[Next\]](#)

[11.15] Vertical Transport in the Jovian Upper Troposphere: Insights from Phosphine Submillimeter Observations*M. Allen (JPL/Caltech), A. Y. T. Lee (Caltech), E. Serabyn (JPL), E. W. Weisstein (Wolfram Research)*

One-dimensional coupled photochemistry/transport model simulations of the phosphine profile in Jupiter's upper troposphere are compared with submillimeter observations. Adopting a stagnant atmosphere between 100 and approximately 400 mbar relative to the rate of mixing at higher pressures results in the best model simulations of the profiles derived from the observations.

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