

Seasonal modeling of Saturn's stratosphere

Hue, Greathouse, Cavalié, Dobrijevic and Hersant (2016) Icarus (in press)

Saturn's seasonal models:

- Photochemical model (Hue et al. 2015)
- Radiative climate model (Greathouse et al. (2008))

Coupling the photochemical and the radiative model:

- Seasonal temperature peak in the high stratosphere shifted before solstice due to the seasonal variation of the main coolant abundances (C_2H_2 and C_2H_6)

