MODEL

STAR

- Teff = 3000, M = 0.16, R = 0.2, Logg = 5.0, [M/H] = 1
- Teff = 3500, M = 0.44, R = 0.45, Logg = 4.8, [M/H] = 1
- Teff = 4000, M = 0.64, R = 0.63, Logg = 4.6, [M/H] = 1
- Teff = 5000, M = 0.8, R = 0.8, Logg = 4.5, [M/H] = 1
- Teff = 7000, M = 1.5, R = 1.7, Logg = 4.2, [M/H] = 1

PLANET

- Neptune, M = 0.05, R = 0.35, [M/H] = 100
- SuperNeptune, M = 0.09, R = 0.54, [M/H] = 50
- Saturn, M = 0.3, R = 0.8, [M/H] = 10
- Jupiter, M = 1, R = 1, [M/H] = 3
- SuperJupiter, M = 5, R = 0.9, [M/H] = 1

C/O

- 0.5 Solar
- 1.0 Solar
- 1.5 Solar

EACH MODEL CONTAINS

EQUIL TEMP ->SETS SEPARATION

- 75 K
- 100 K
- 150 K
- 180 K
- 200 K
- 250 K
- 300 K
- 500 K

Pressure/Temperature profile for each Teq

Each Teq has

PHASE

- 0 deg
- 45 deg
- 90 deg
- 120 deg
- 140 deg

For each phase:

Stellar Spectrum and cloud-free Albedo, Planet/Star Flux Ratio, and Planet Spectrum from 0.3-2 um at R = 60,000

And cloudy models:

SEDIMENTATION EFFICIENCY F_SED

- 0.1
- 0.5
- 1
- 3
- 6
- 10

VERTICAL MIXING K_ZZ

- $1x10^{9}$
- $1x10^{11}$

75 MODELS

485 SPECTRA

36,375 TOTAL SPECTRA