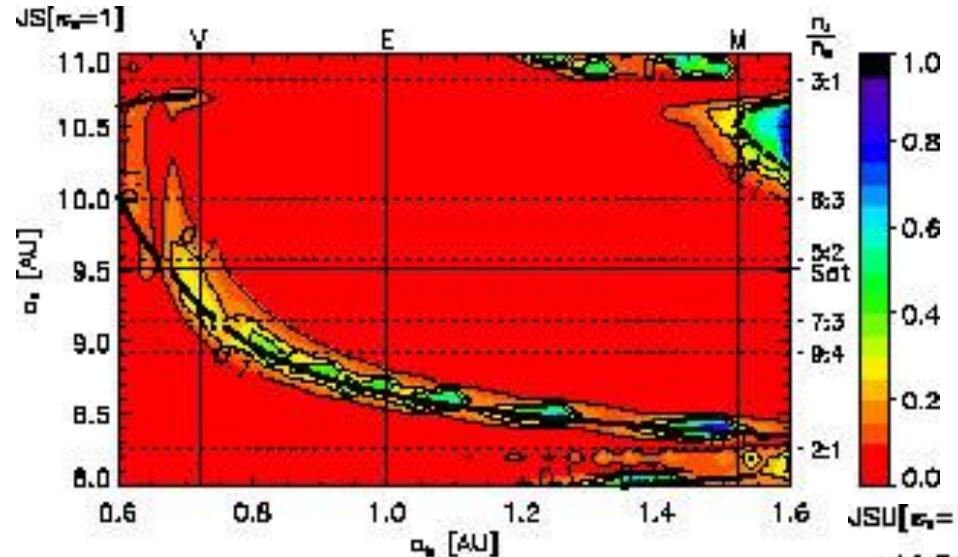


Vergleich mit Sonnensystem:

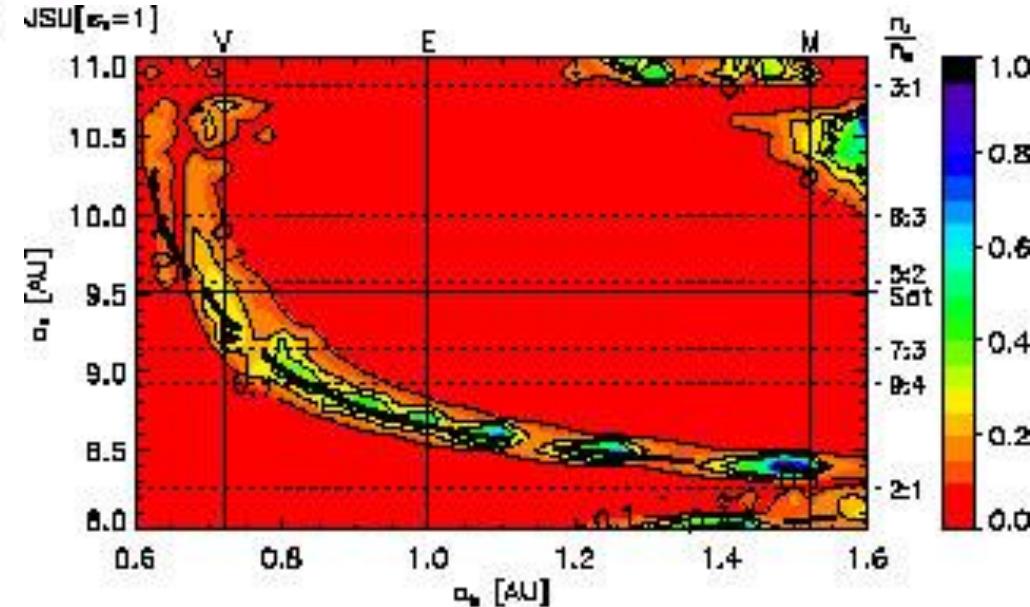
Welche Planeten beeinflussen die HZ ?

Einfluss auf die HZ:



Jupiter -- Saturn

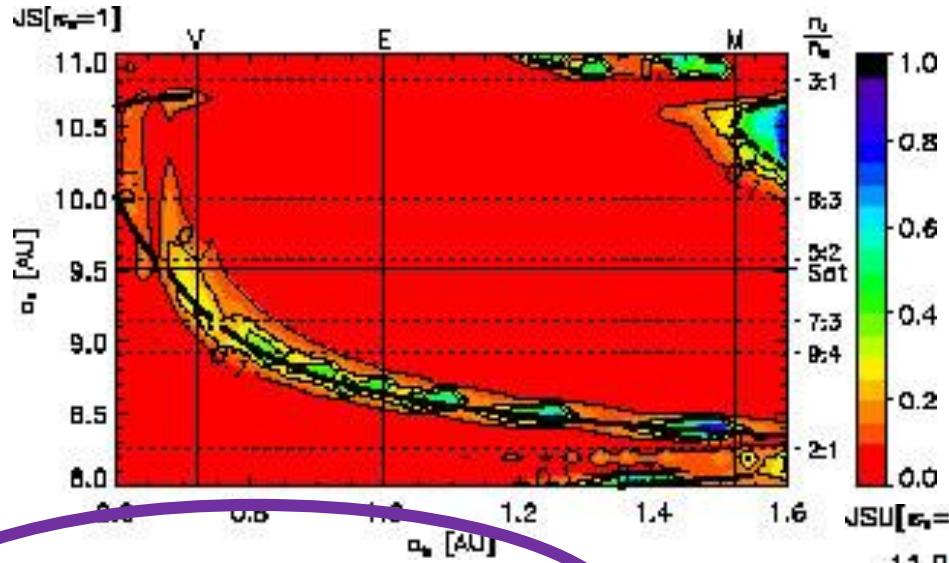
Jupiter – Saturn -Uranus



Pilat-Lohinger et al. 2008, ApJ 681, p.1639

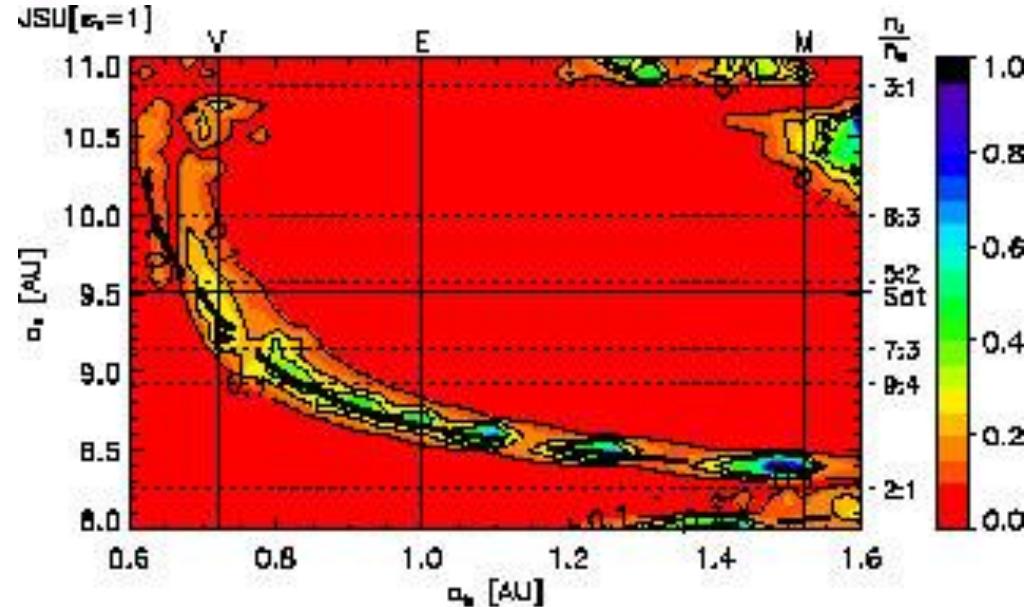
Pilat-Lohinger et al. 2008, CMeDA, 102, p. 83

Einfluss auf die HZ:

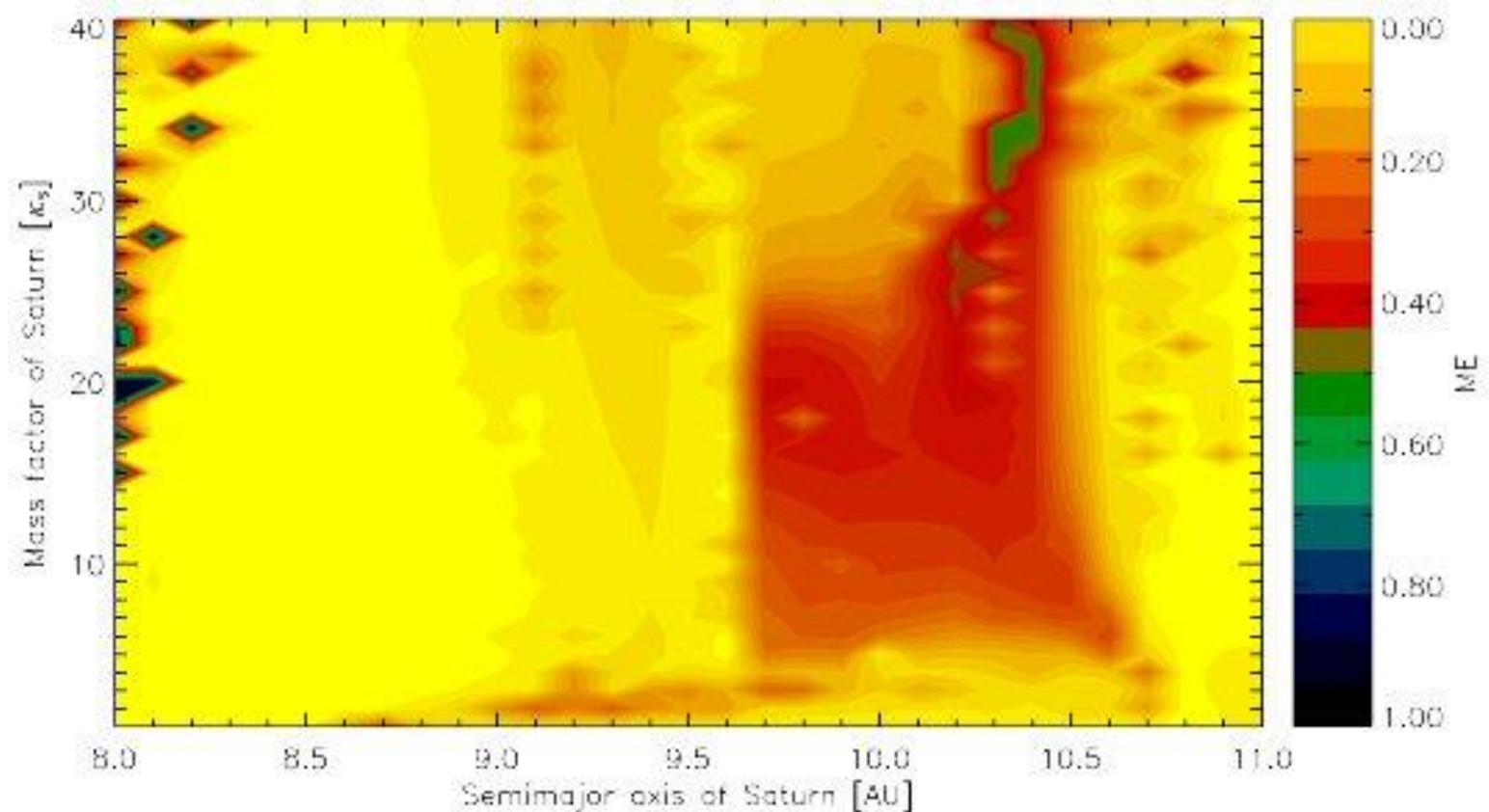


Jupiter -- Saturn

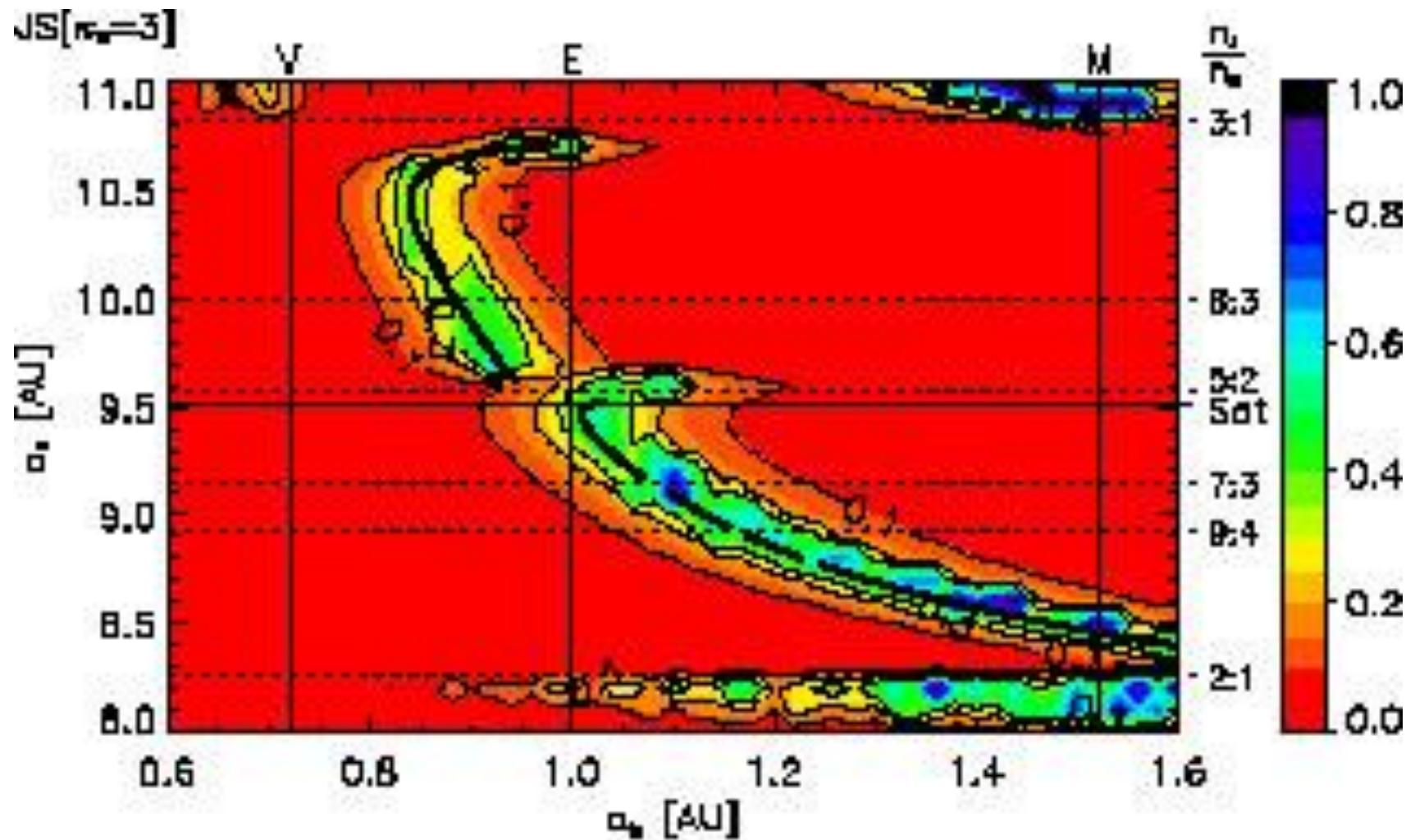
Jupiter – Saturn -Uranus

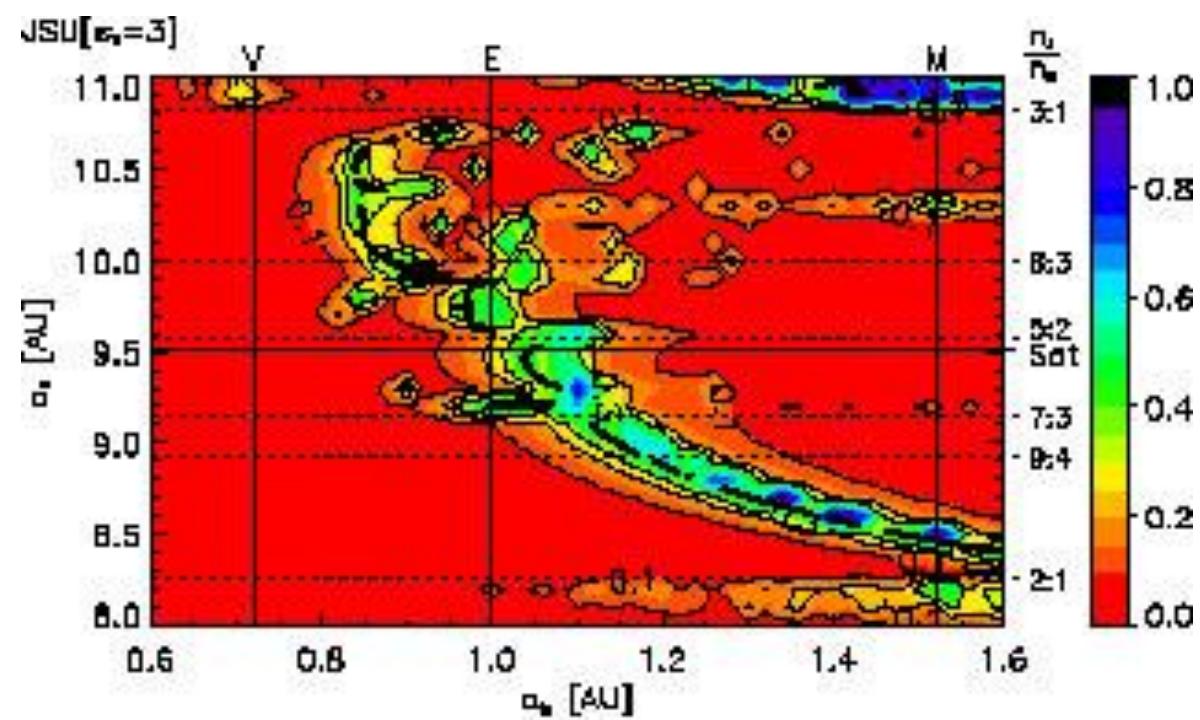
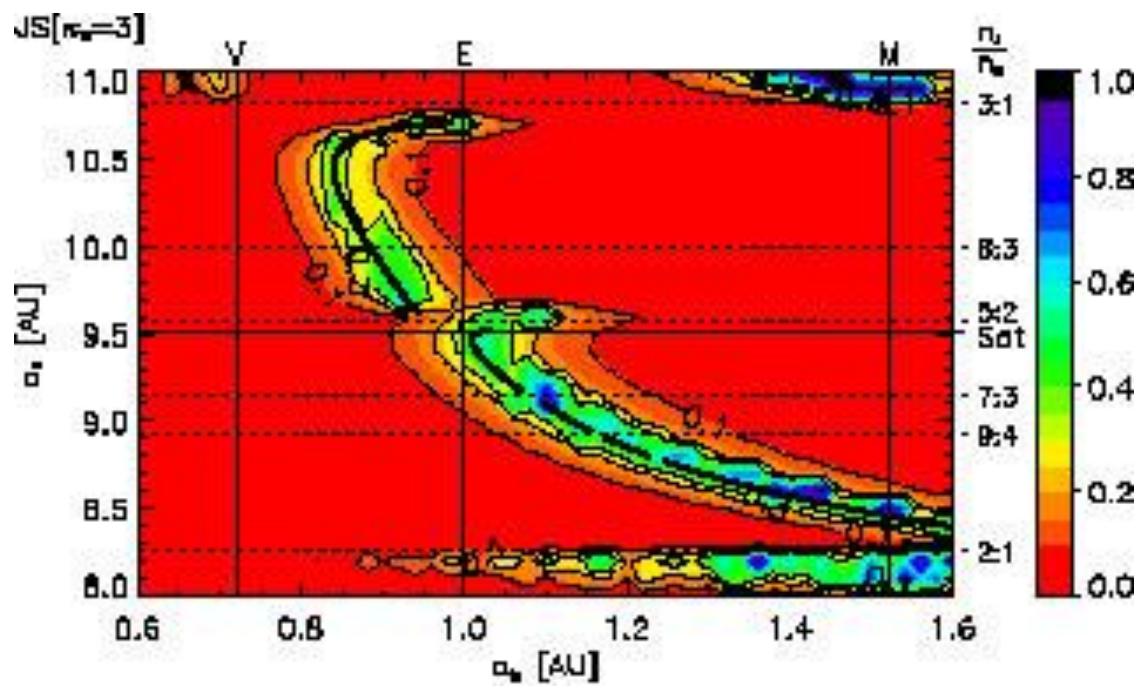


Influence on an Earth-like planet at 1 AU

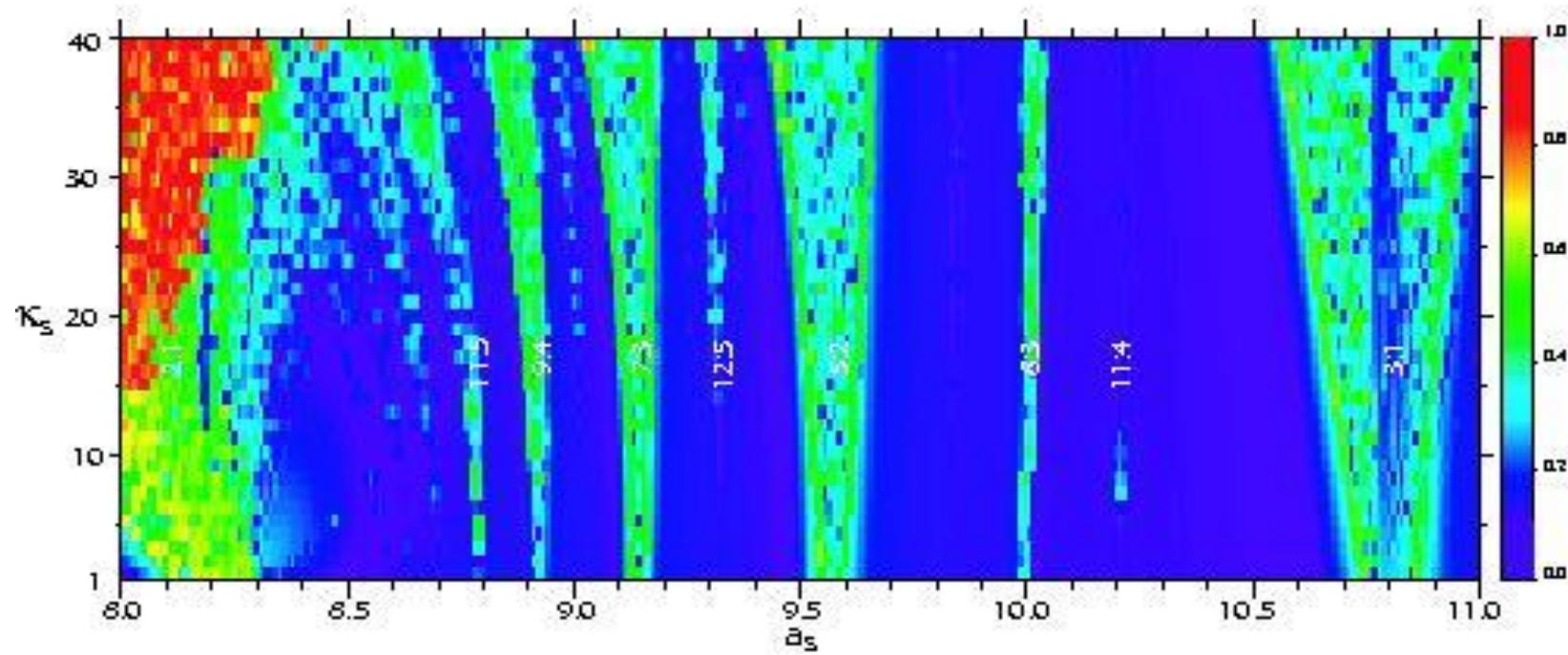


Annahme: $m_{\text{Saturn}} = 1 \text{ Jupitermasse}$





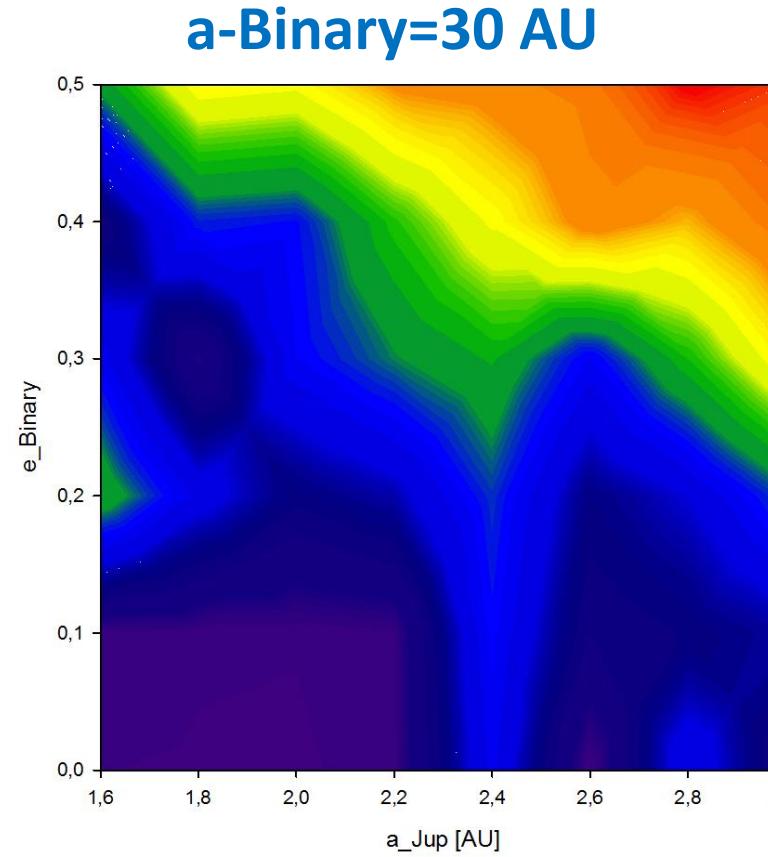
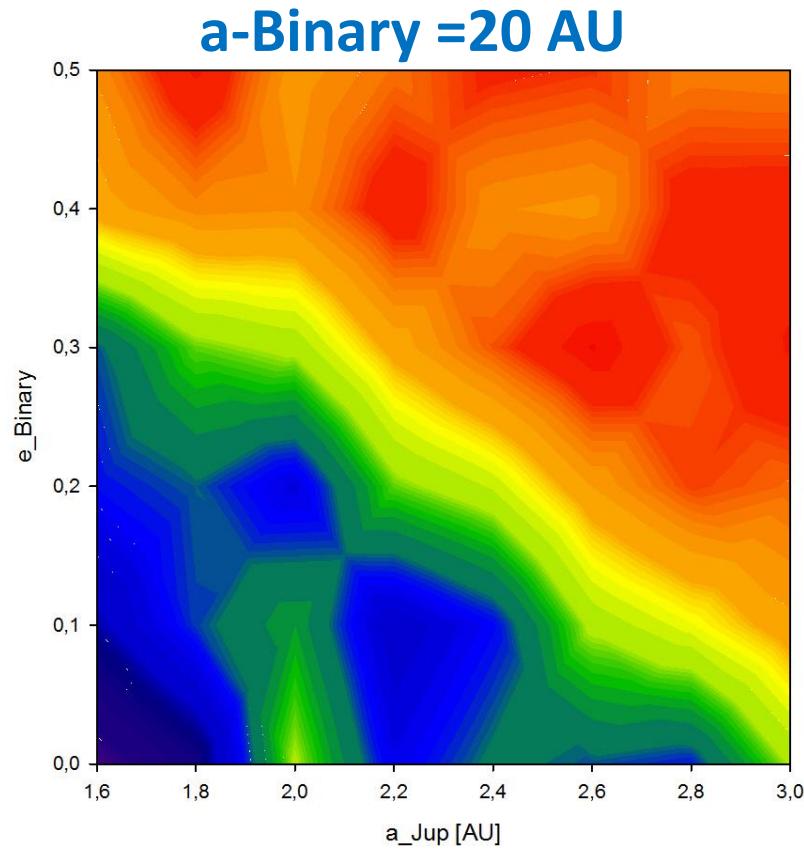
MMRs of Jupiter-Saturn



Jupiter-Saturn-Earth in a G-G Binary

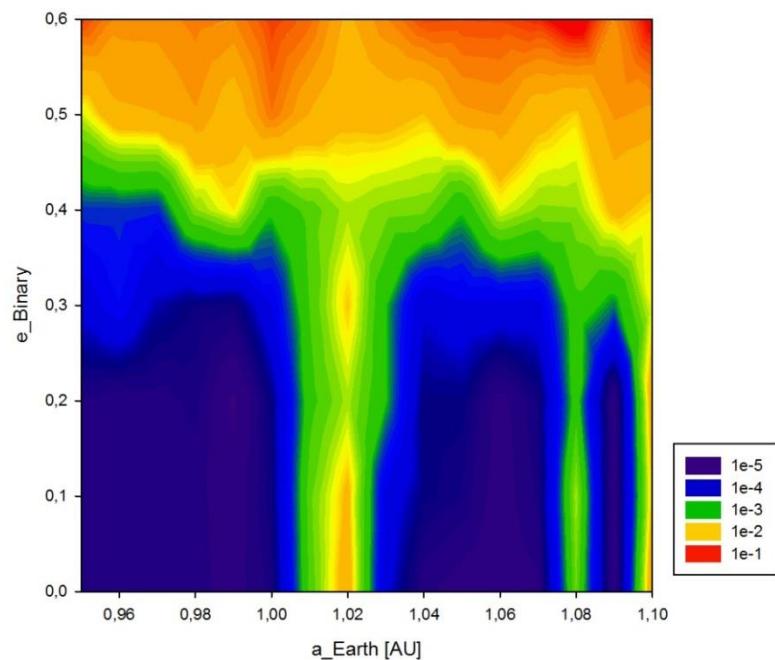
→ Influence on the habitability of the Earth

Jupiter-Saturn in G-G Binary



Jupiter-Saturn-Earth in a G-G Binary

a-Binary =20 AU



a-Binary=30 AU

