

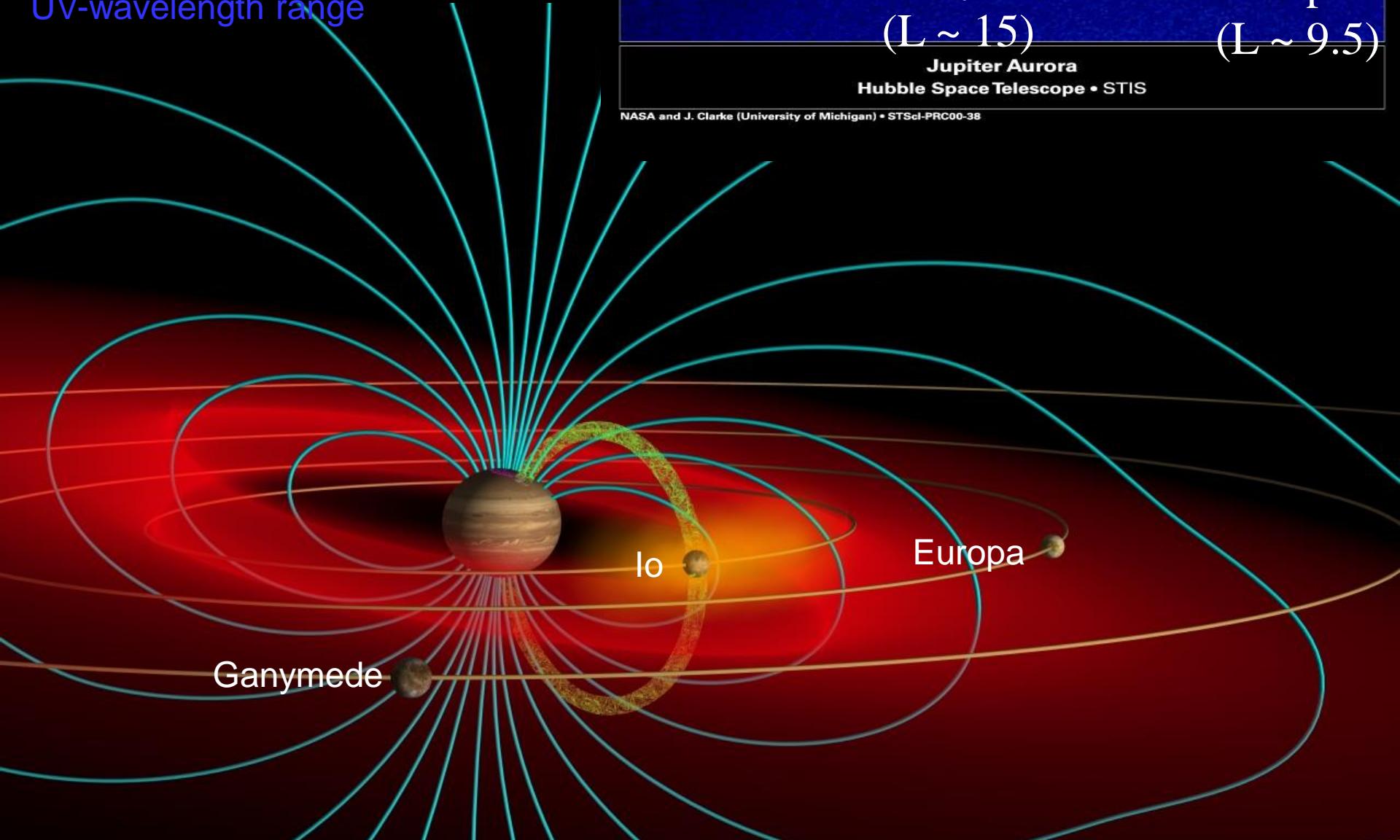
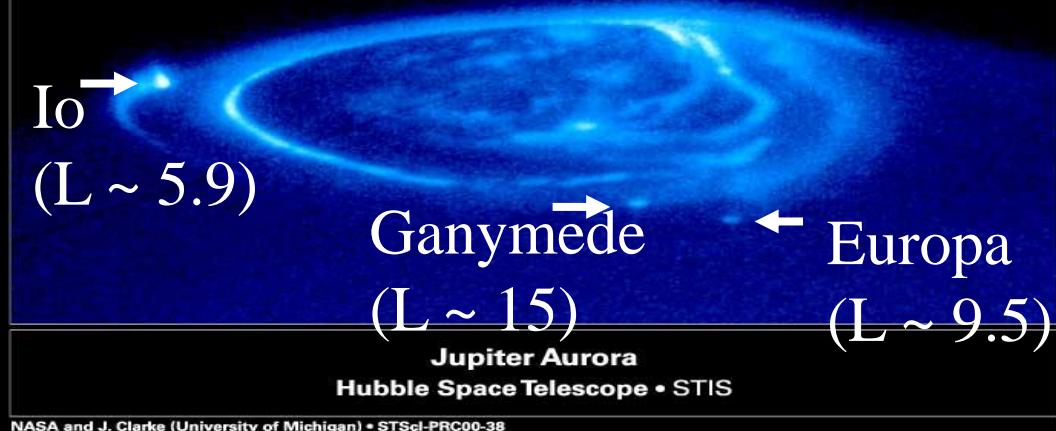
# Using Europa's and Ganymede's Auroral Footprints to Compare Jovian Magnetic Field Models

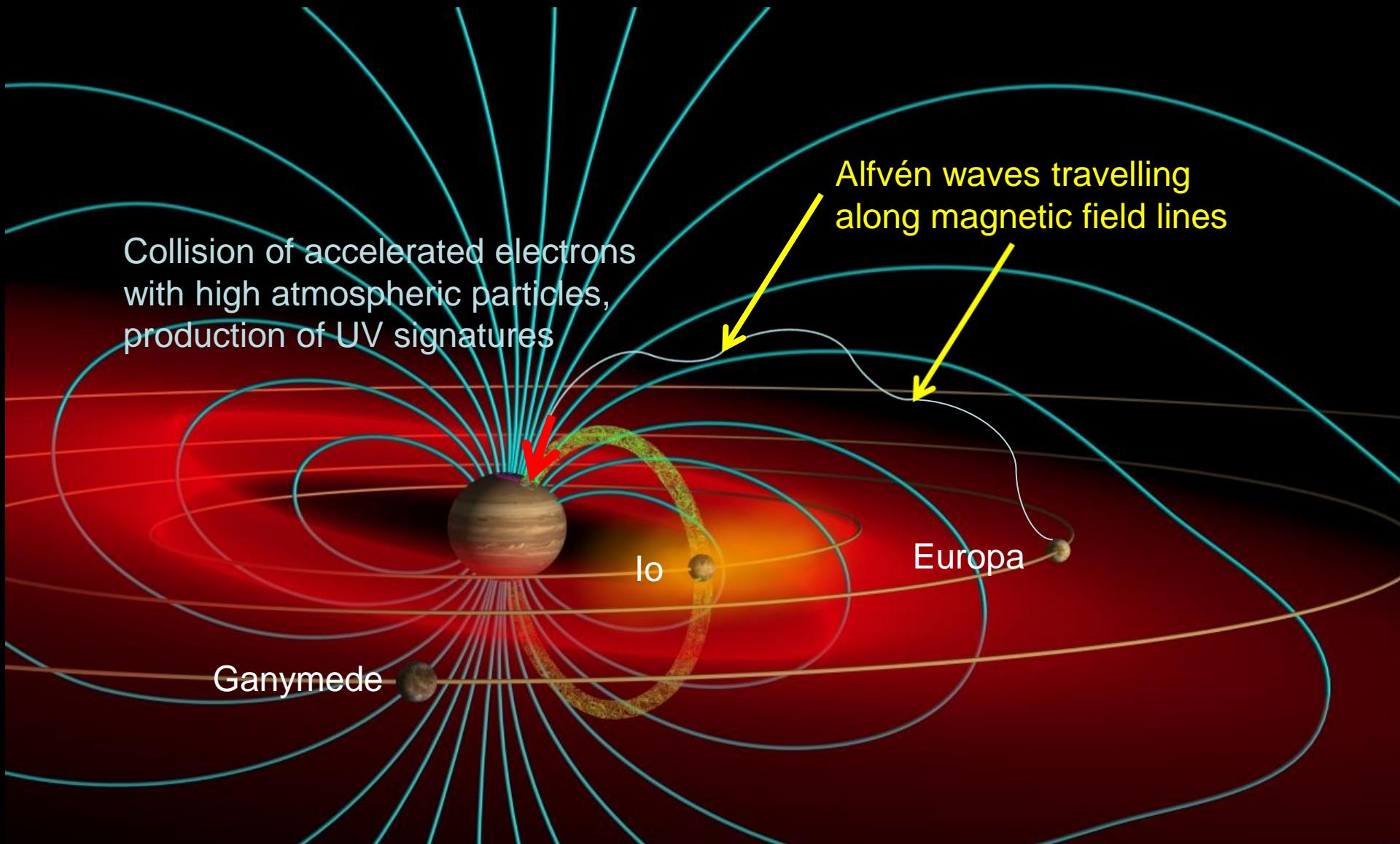
N. Sejkora (1), H. O. Rucker (1), B. Bonfond (2)

(1) Commission for Astronomy, AAS;

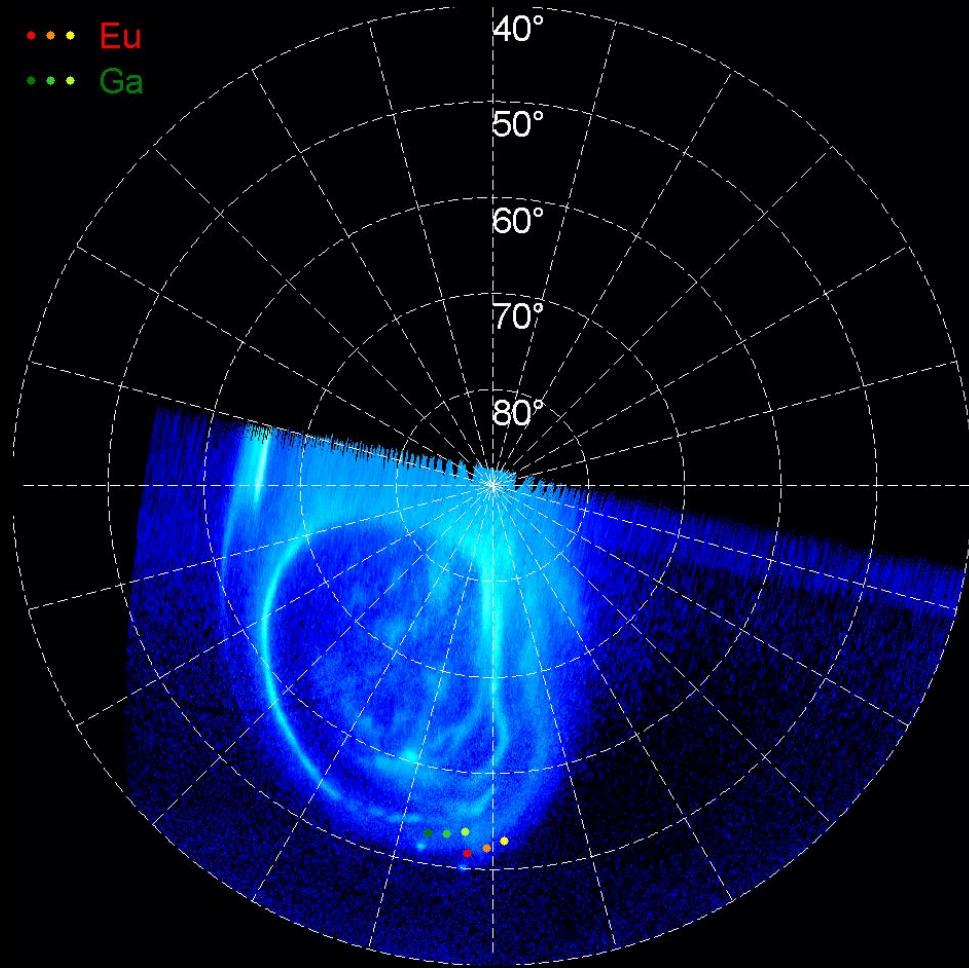
(2) STAR Institute, Université de Liège

Jupiter AURORA:  
Connection between magnetic field,  
plasma and „light“ phenomena in the  
UV-wavelength range



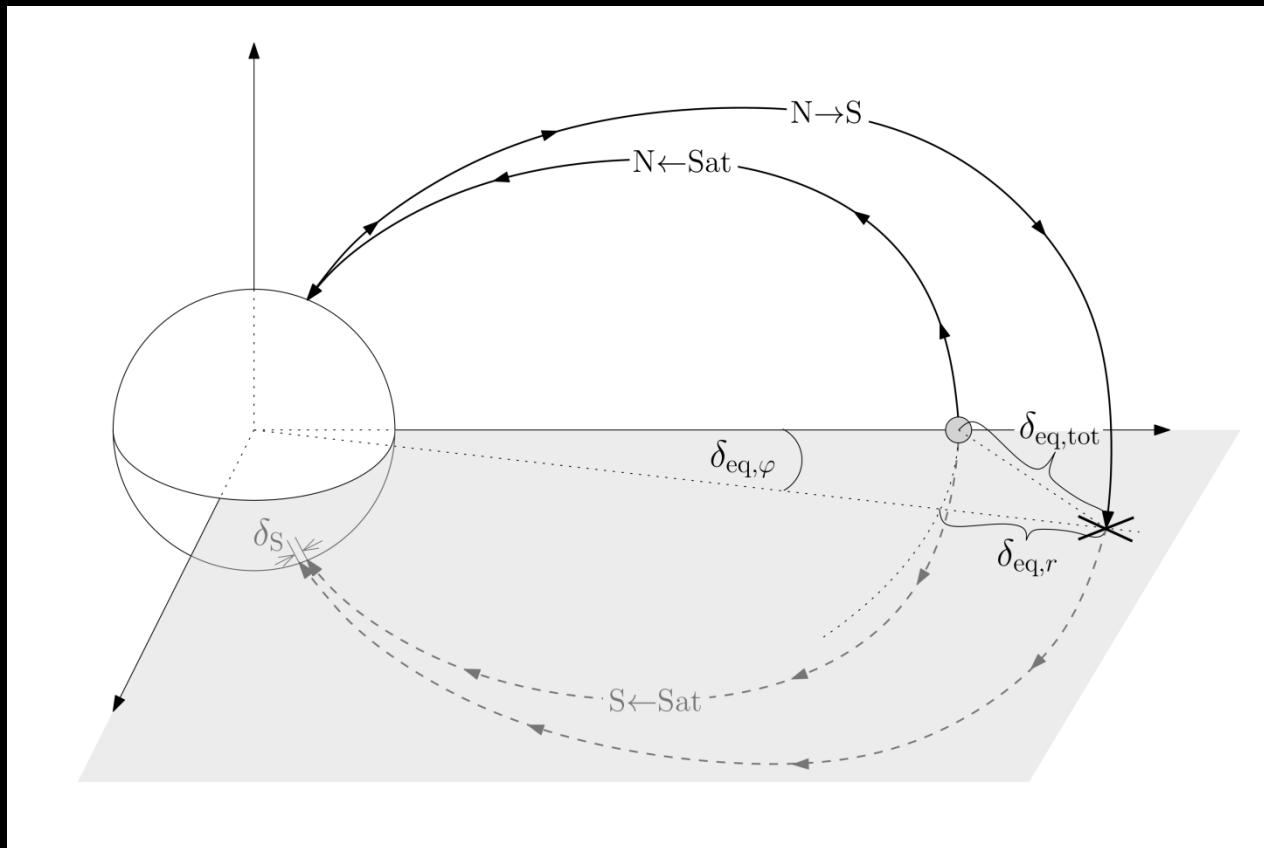


••• Eu  
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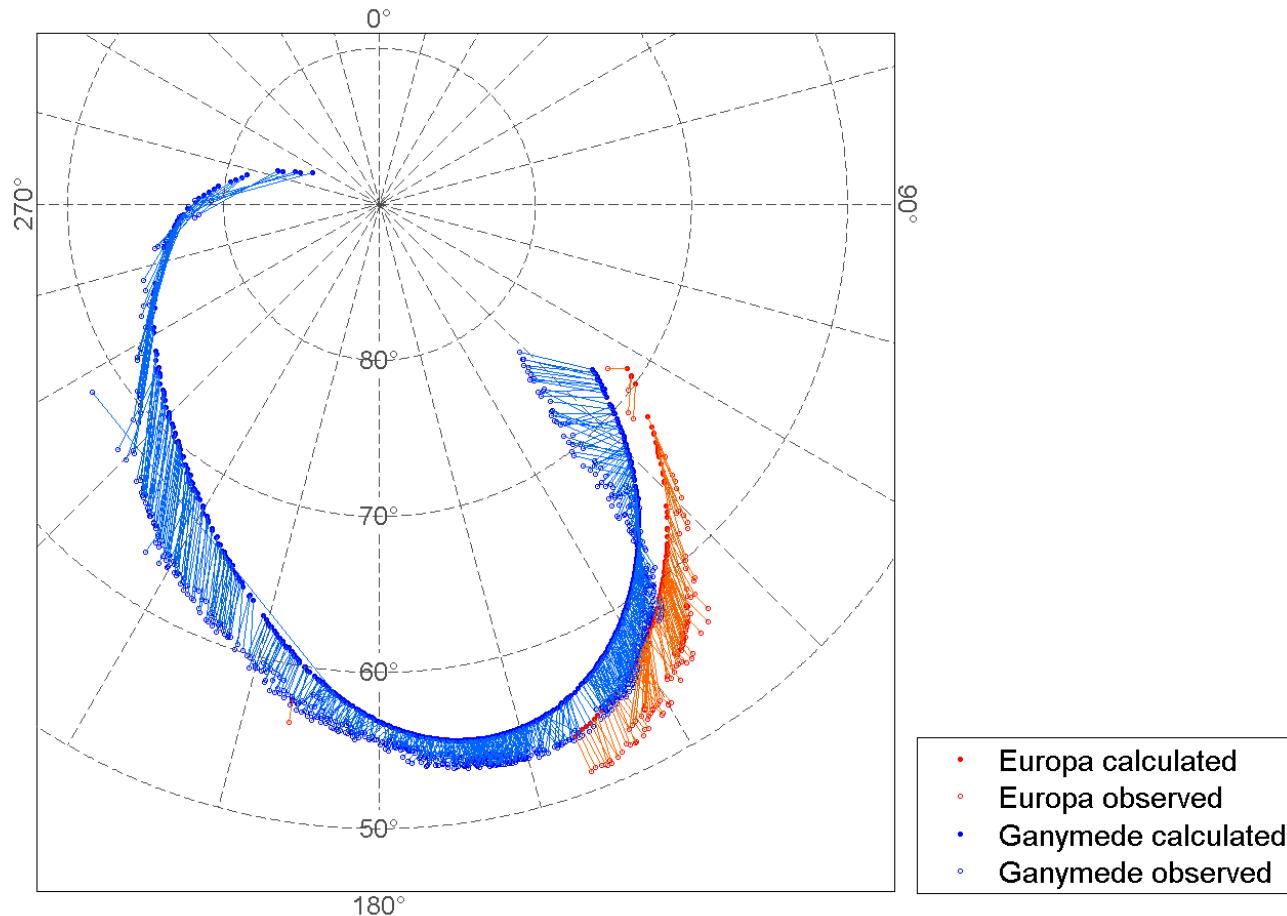


## Magnetic field line construction

- Starting point = position of satellites Ganymede, Europa
- $B$  determined by spherical harmonic analysis (VIP4, VIPAL models)
- Definition of magnetic field line footprint on Jupiter „surface“



Calculated vs. Observed Footprints  
VIP4, Northern hemisphere



Calculated vs. Observed Footprints  
VIPAL, Northern hemisphere

