

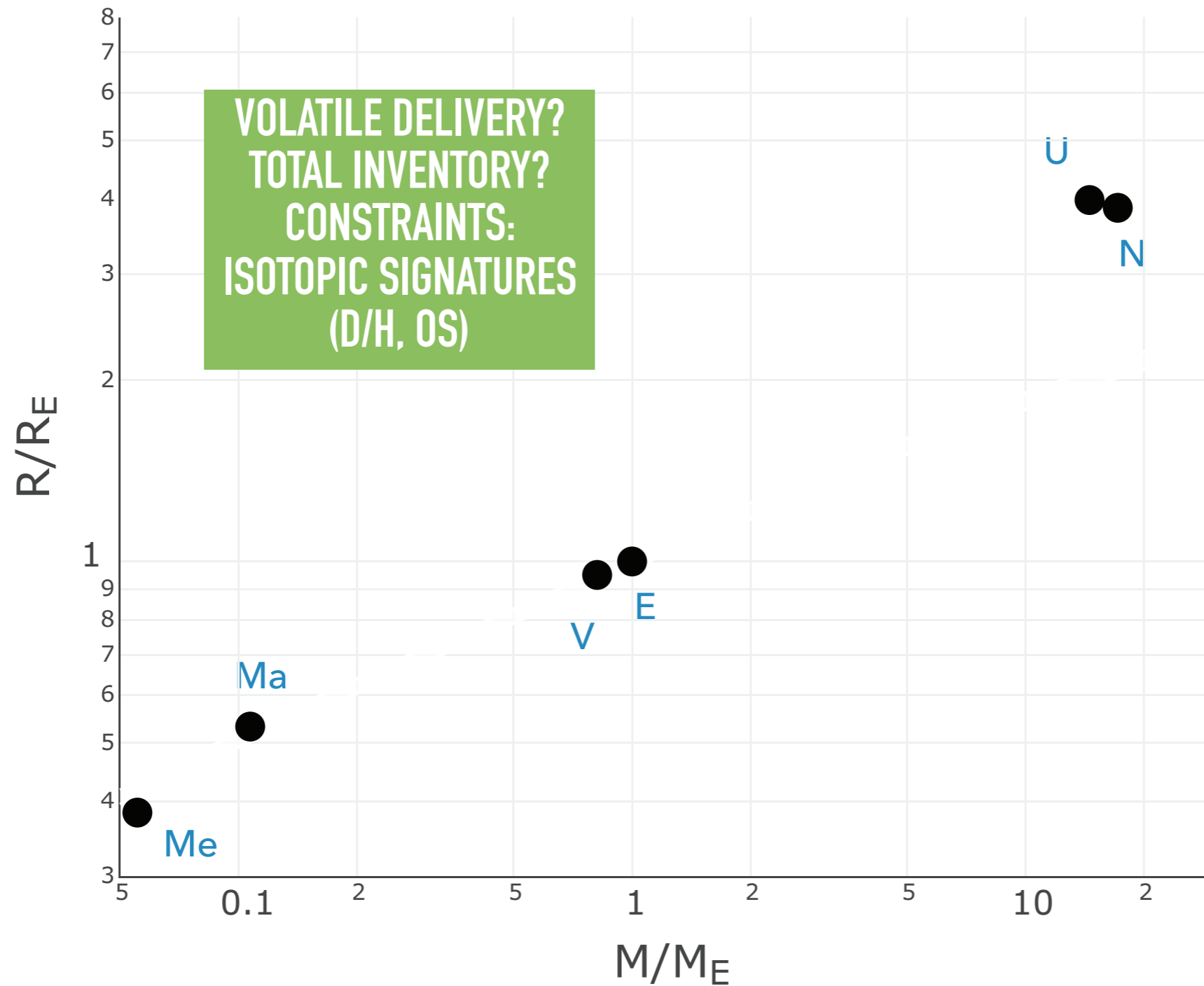


ORIGINS OF VOLATILES IN HABITABLE PLANETS:
TERRESTRIAL PLANETS AND BEYOND

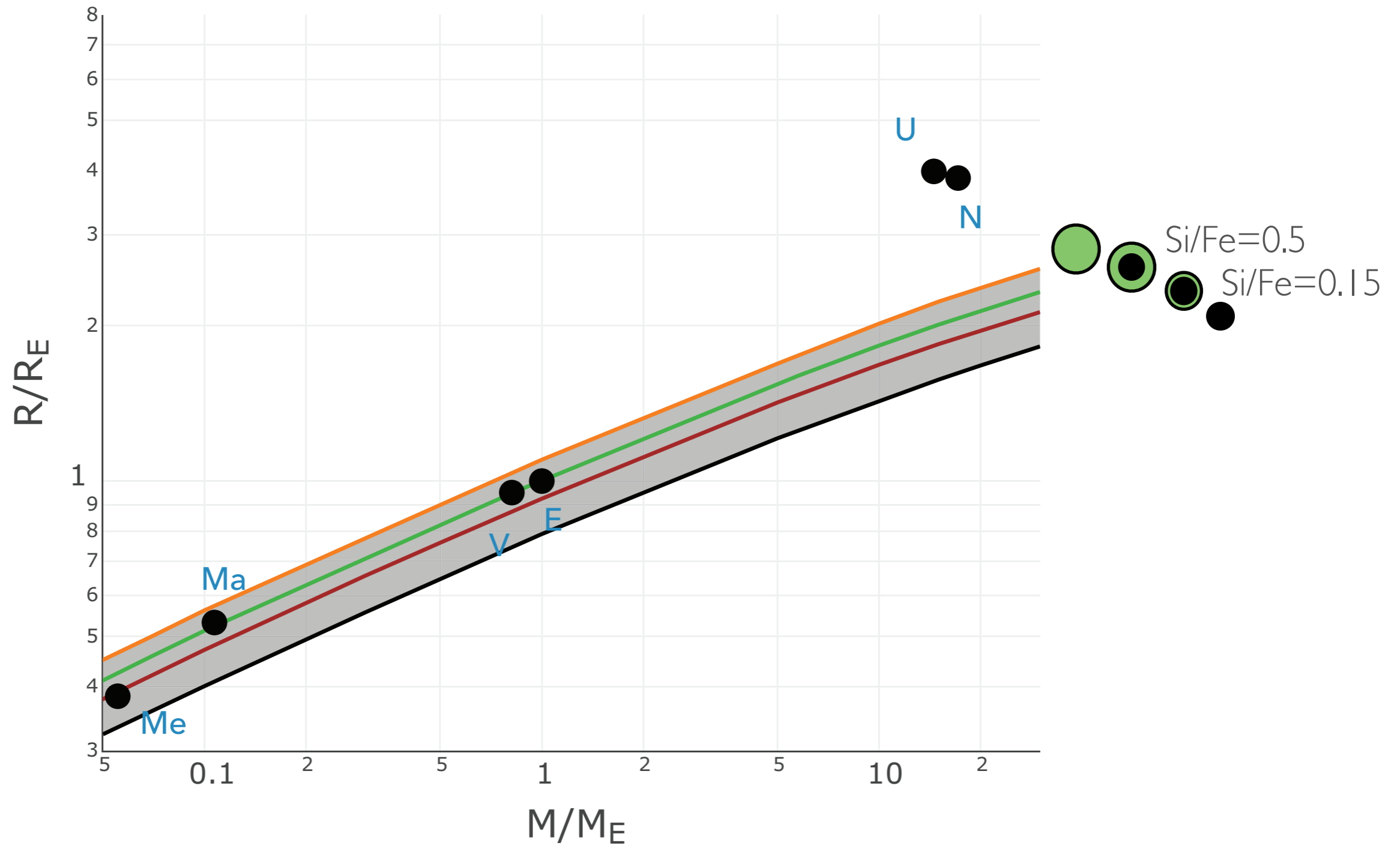
DIANA VALENCIA, UNIVERSITY OF TORONTO

**CONSTRAINTS ON TERRESTRIAL
AND SUPER-EARTH COMPOSITION**

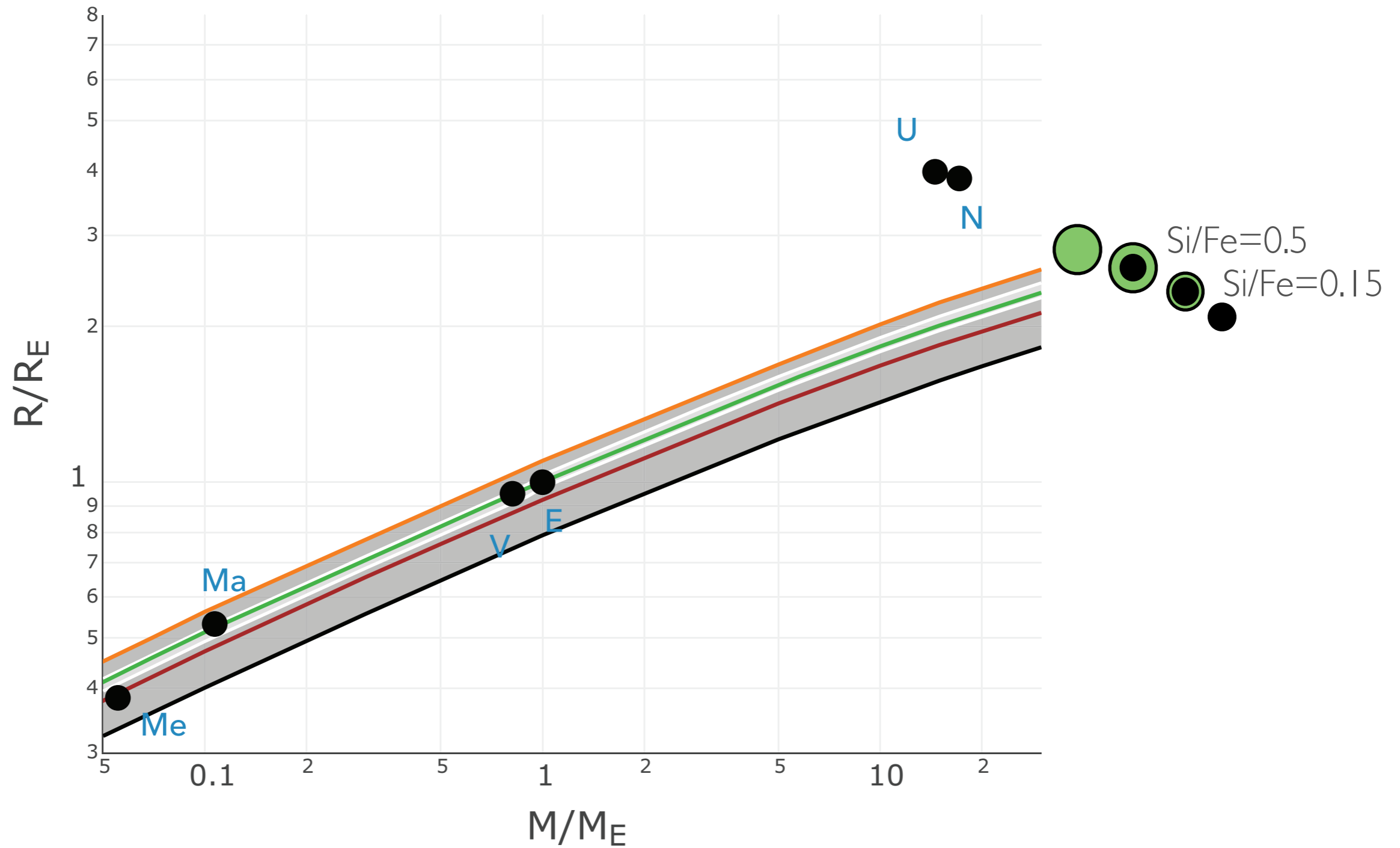
TERRESTRIAL PLANETS, SUPER-EARTHS AND MINI-NEPTUNES



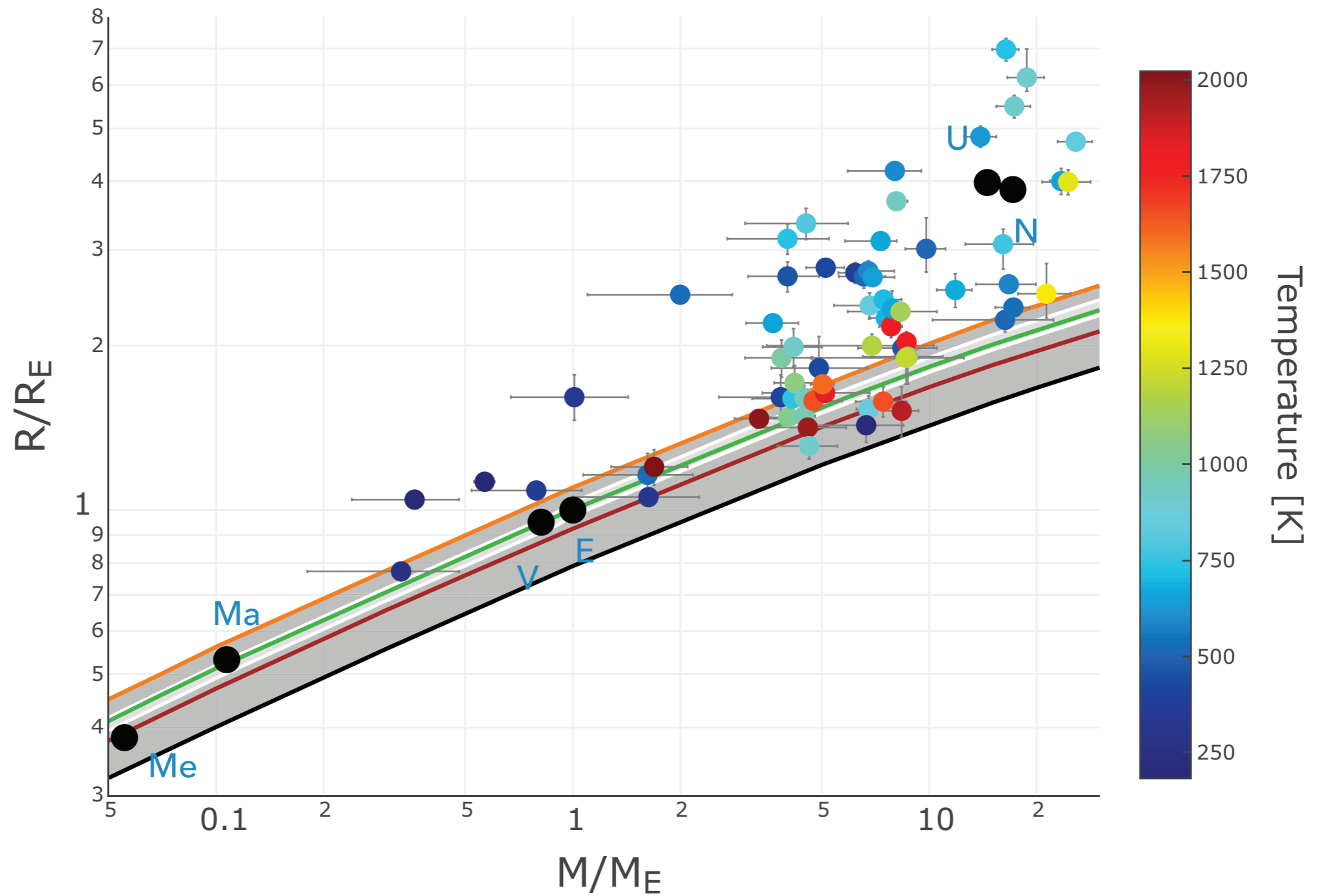
TERRESTRIAL PLANETS, SUPER-EARTHS AND MINI-NEPTUNES



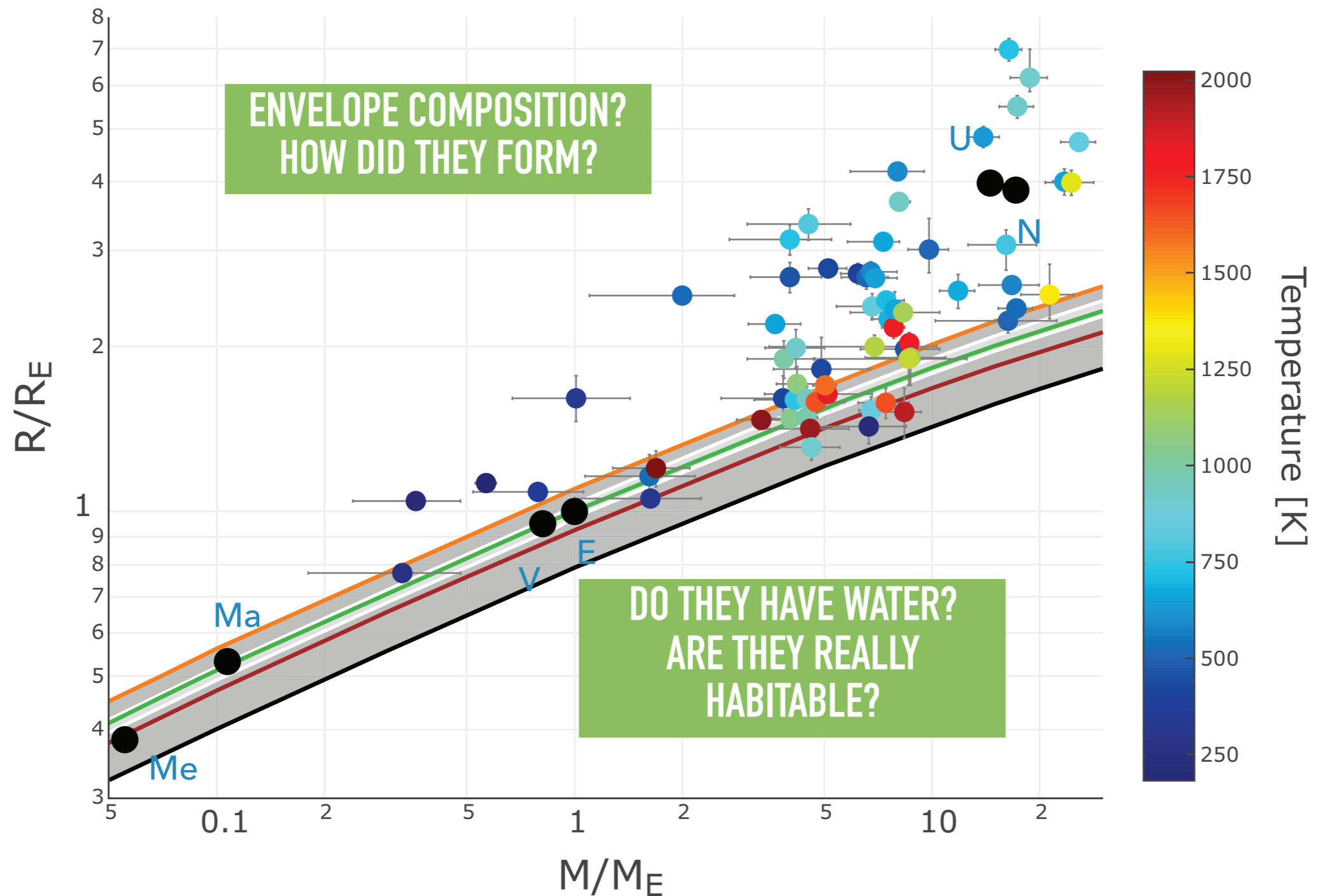
TERRESTRIAL PLANETS, SUPER-EARTHS AND MINI-NEPTUNES



TERRESTRIAL PLANETS, SUPER-EARTHS AND MINI-NEPTUNES

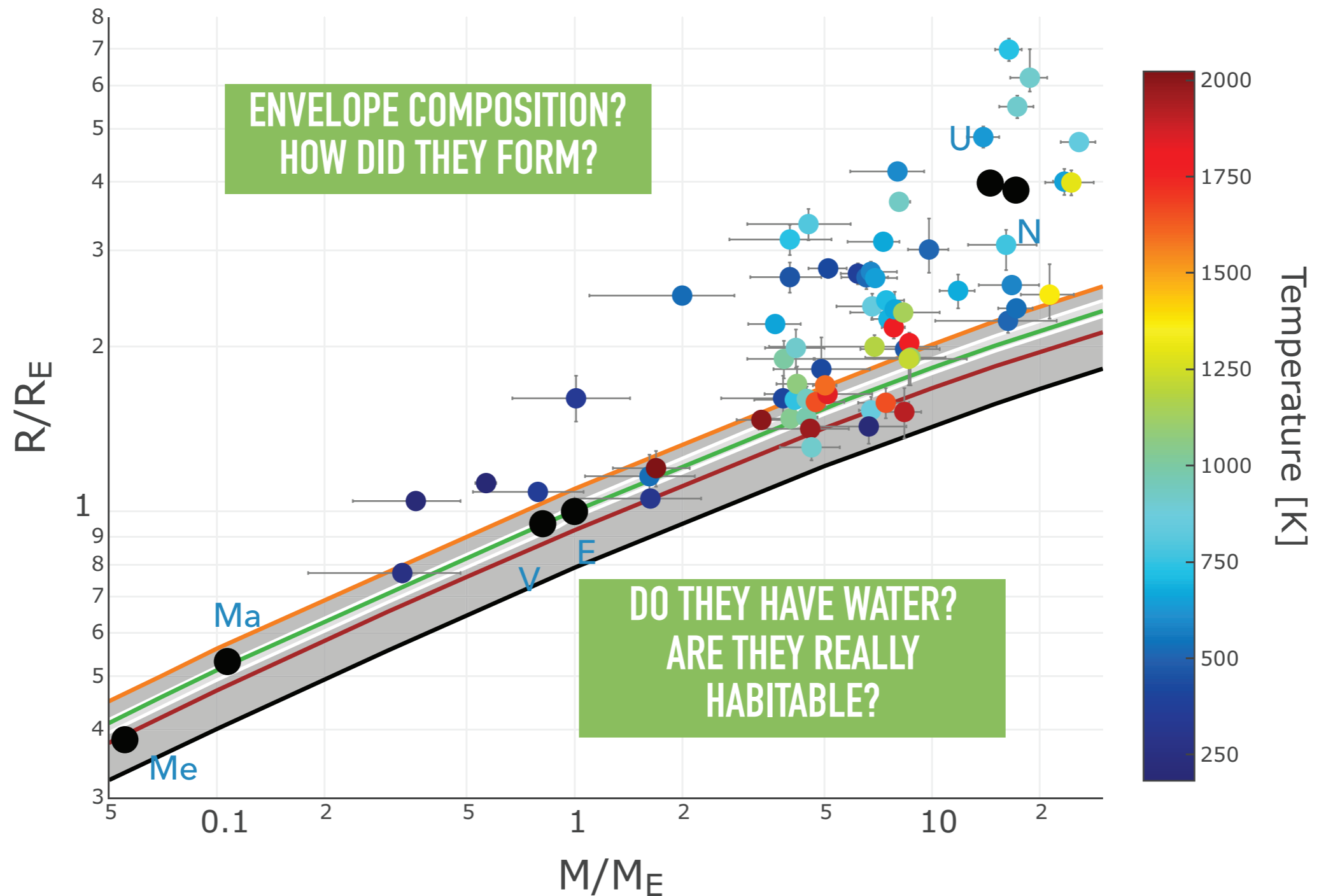


TERRESTRIAL PLANETS, SUPER-EARTHS AND MINI-NEPTUNES



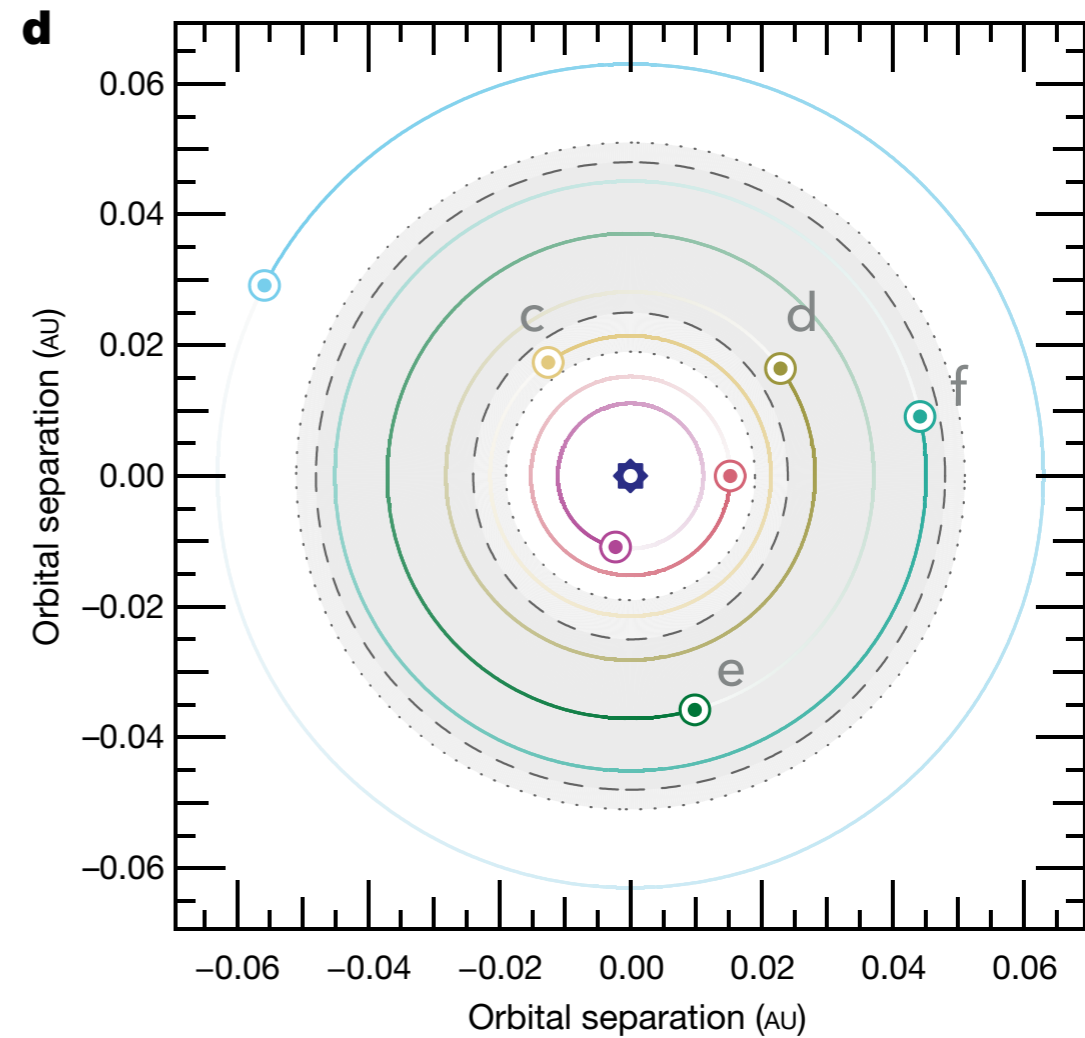
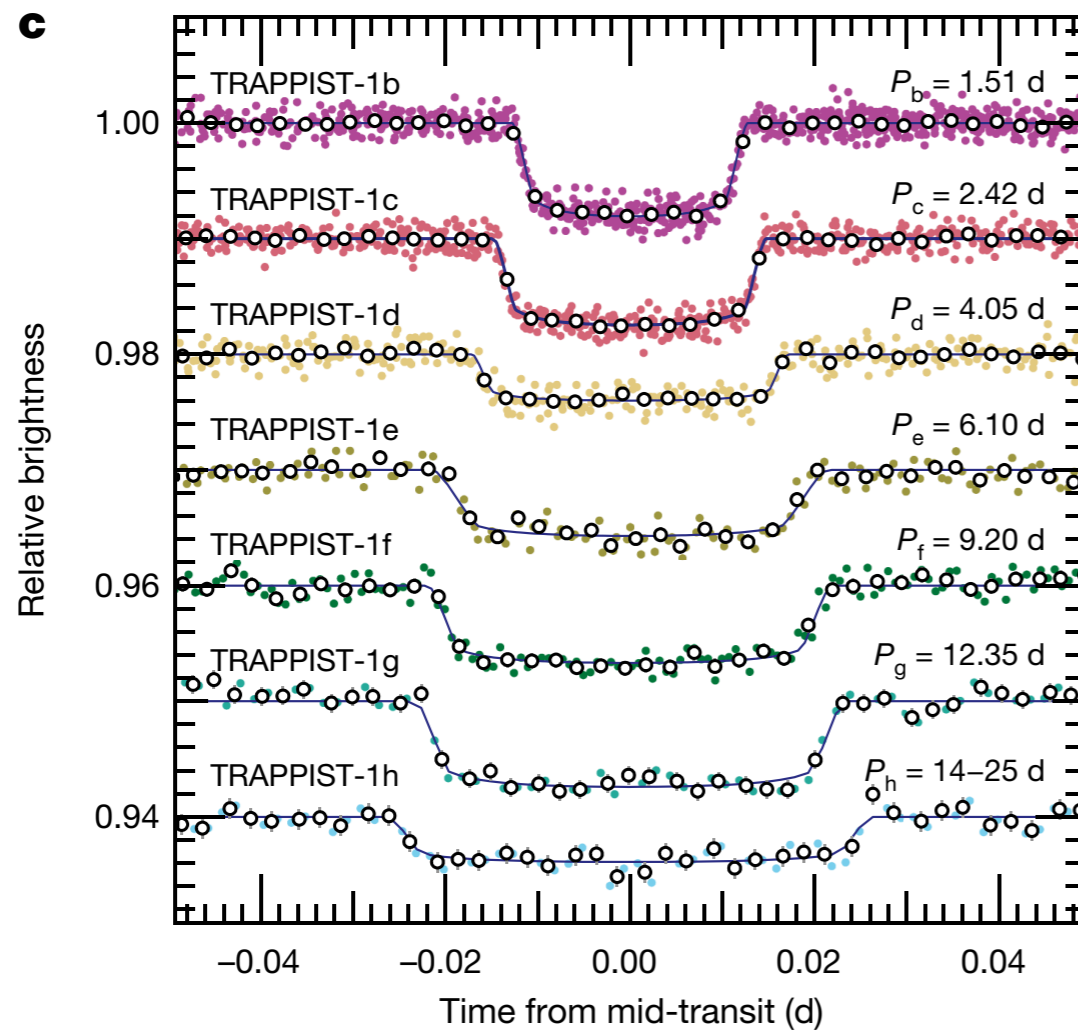
DATA: M & R, BROAD SPECTRAL FEATURES

TERRESTRIAL PLANETS, SUPER-EARTHS AND MINI-NEPTUNES



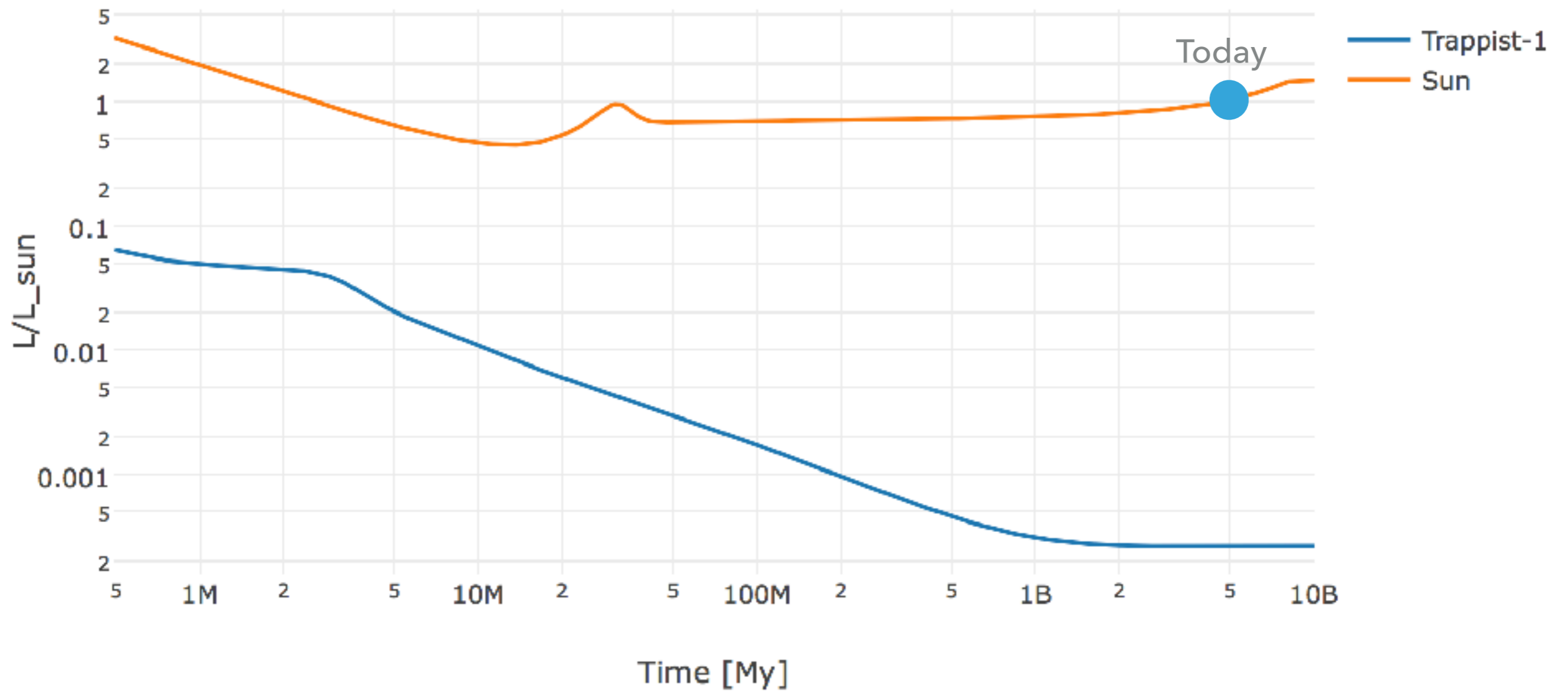
DATA: M & R, BROAD SPECTRAL FEATURES

TRAPPIST-1 PLANETS: 7 TRANSITING PLANETS AROUND A LOW-MASS STAR



In resonance: 24: 15: 9: 6: 4: 3: 2

HABITABLE ZONE MOVES INWARDS FOR M DWARFS



TRAPPIST-1 PLANETS: ARE THEY REALLY HABITABLE?

