

## **Why Kepler?**



- **Access to Tycho's observations**
- **Tycho's redefinition of the goal of astronomy: agreement within observational accuracy at all times around the zodiac**
- **Kepler's demonstration of limitations in relying on acronychal observations**
- **Idea, inherited from Copernicus, of employing theory-mediated triangulations to determine sun-planet and earth-sun distances vs. time**
- **Tycho's exceptionally accurate theory of the Sun**
- **The (perhaps coincidental) choice of Mars**