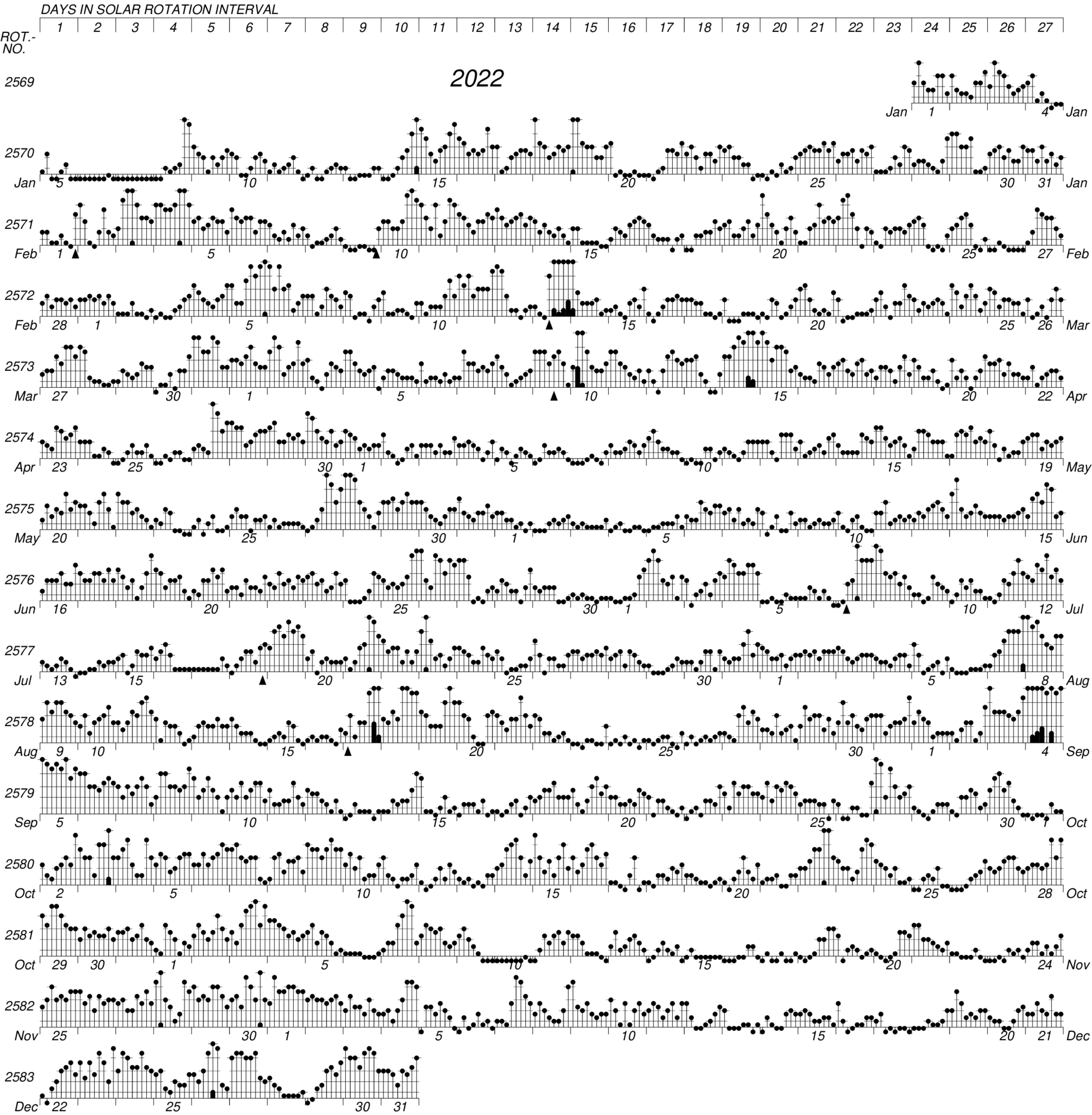
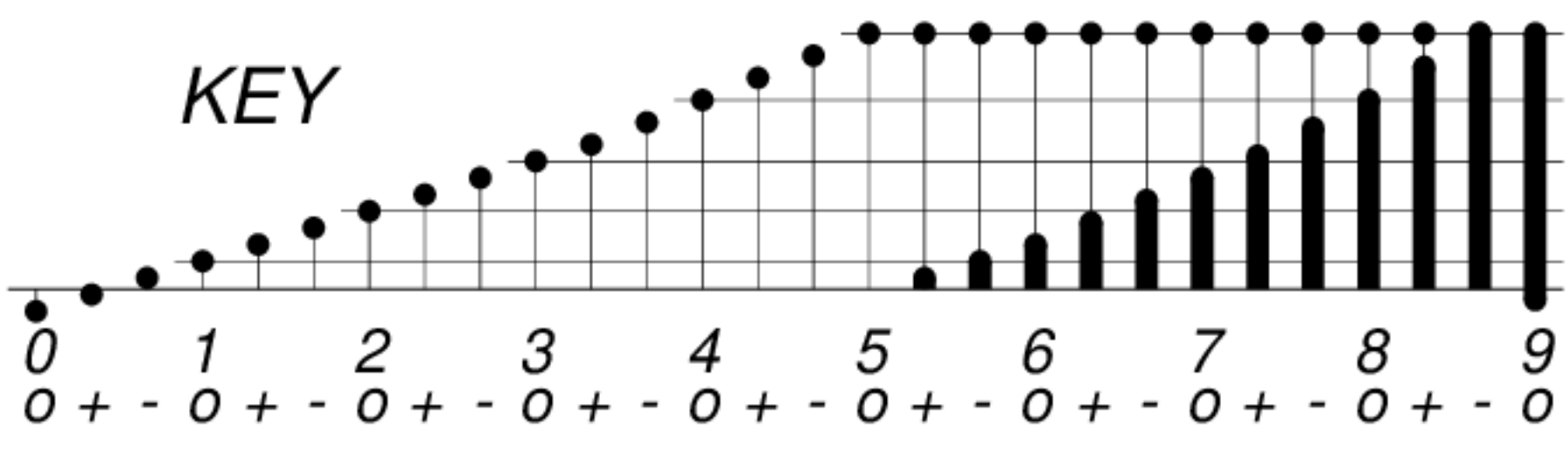




KEY



▲ = sudden commencement

GFZ Helmholtz Centre for Geosciences
**PLANETARY MAGNETIC
THREE-HOUR-RANGE INDICES**
Kp 2022