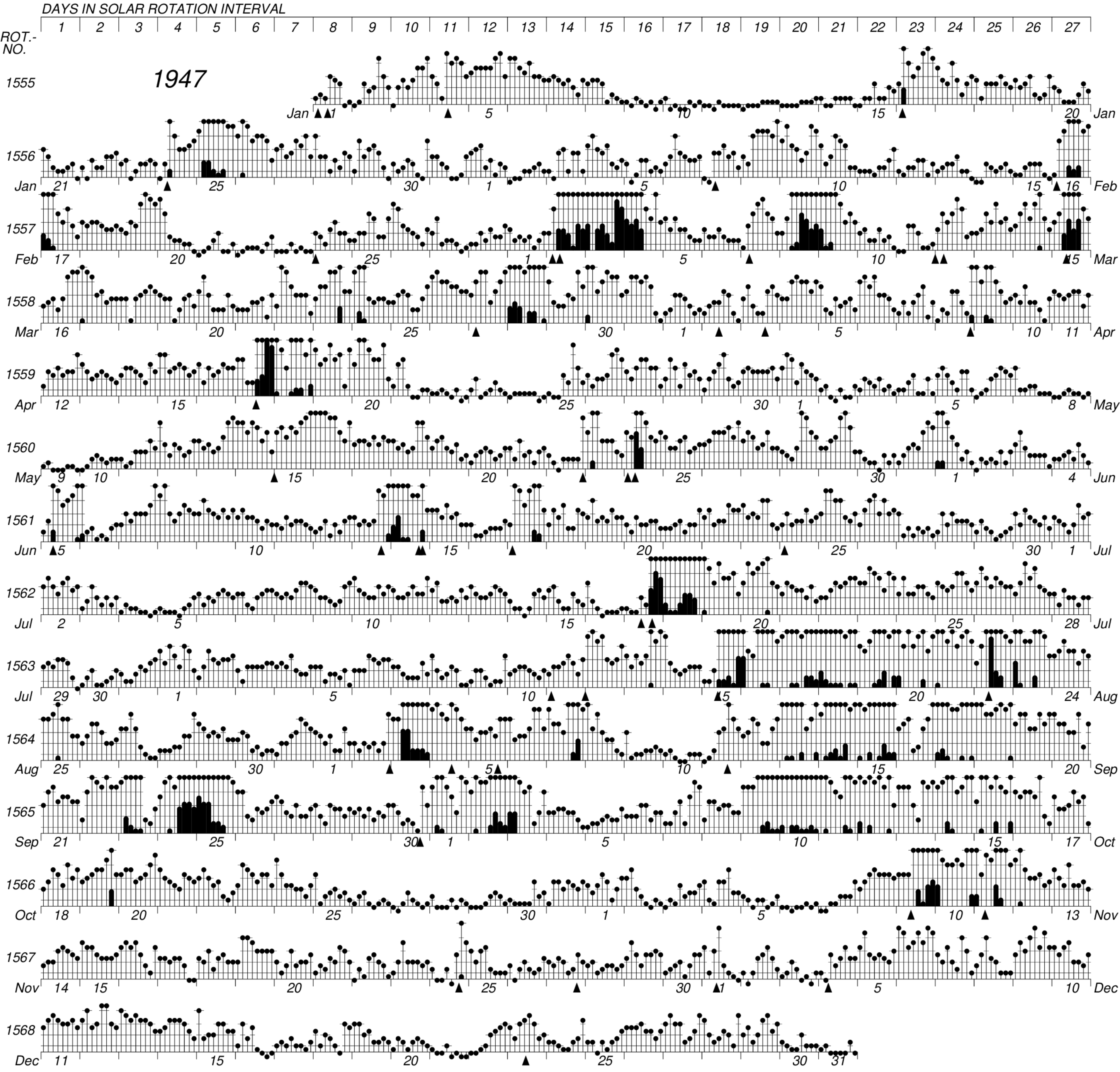
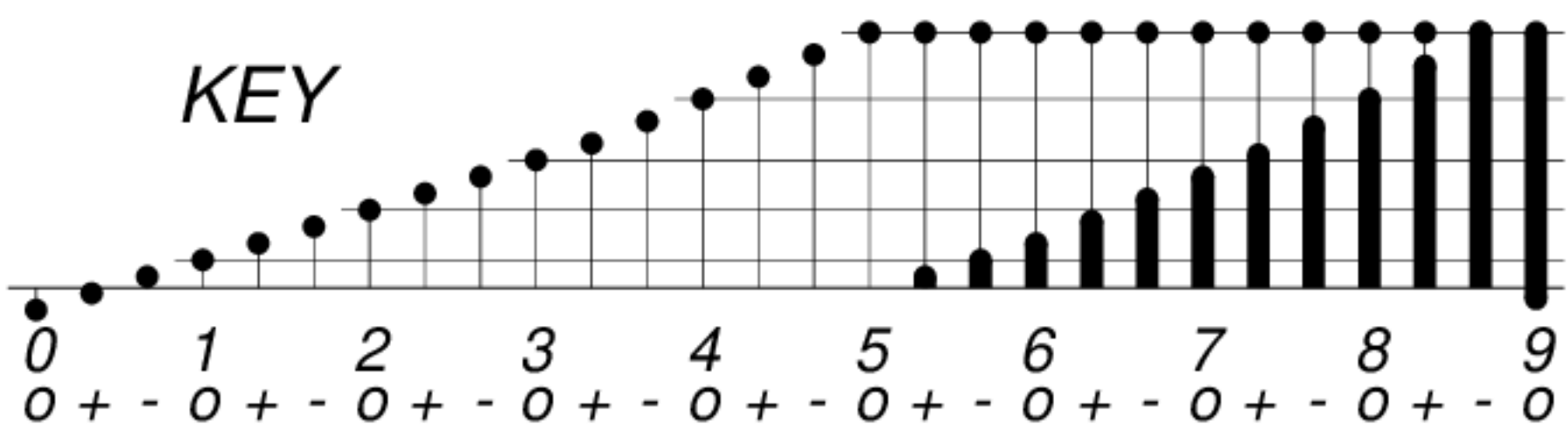




KEY



▲ = sudden
commencement

GFZ Helmholtz Centre for Geosciences
**PLANETARY MAGNETIC
THREE-HOUR-RANGE INDICES**
Kp 1947