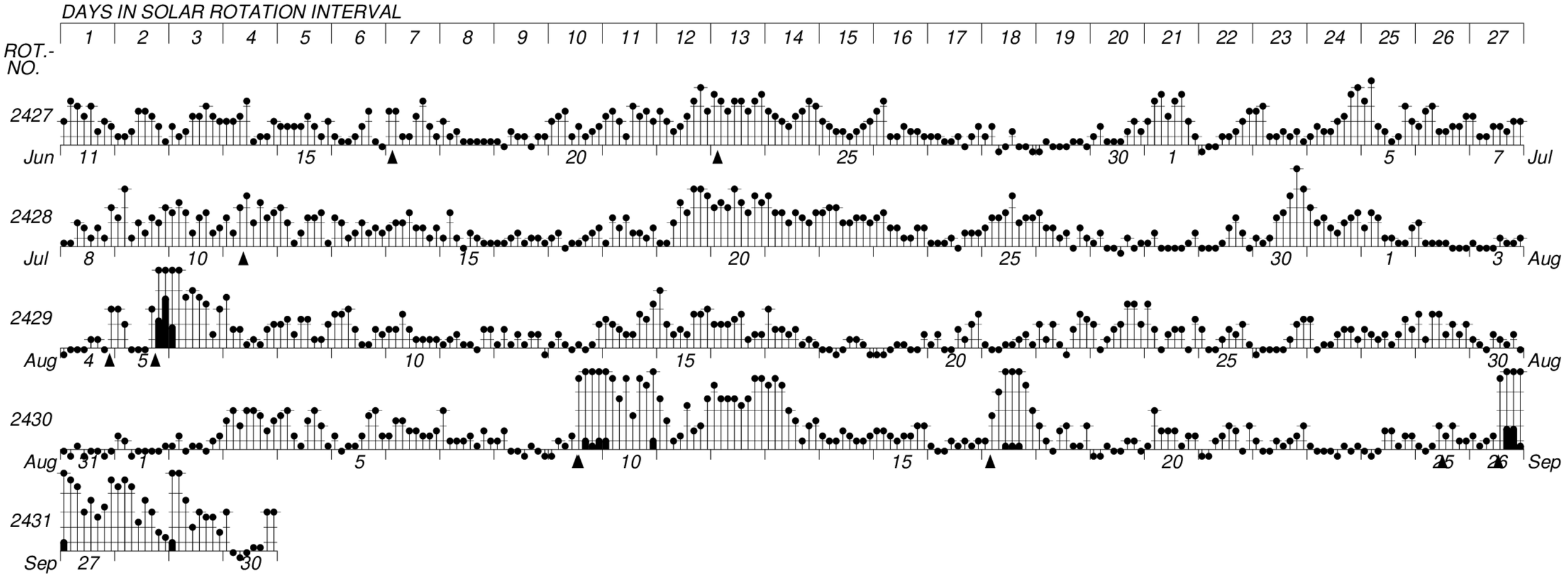


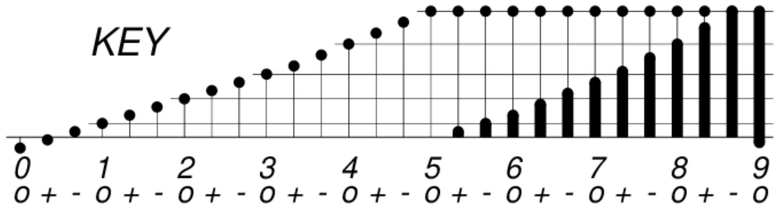


▲ = sudden commencement

*GFZ Helmholtz Centre for Geosciences*

# PLANETARY MAGNETIC THREE-HOUR-RANGE INDICES

## Kp till 2011 Sep 30