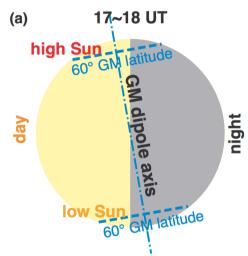


Yamauchi et al: Unusually large positive dB near noon on 11 May, 2024

## Fourth time Kp=9 at 9-15 UT in past >90 years

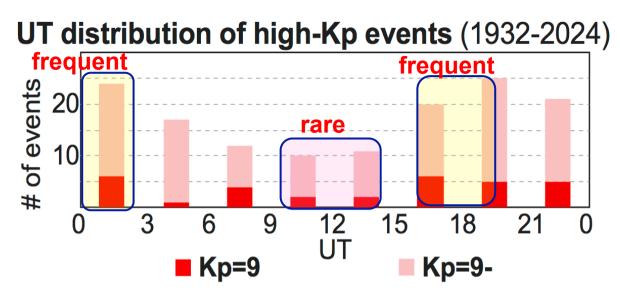


## First time AU > +1300 nT at 08-15 MLT in past >40 years

➔ Some G4 geomagnetic storms at 09-15 UT might be as severe as G5 storms at 18-03 UT.

Acknowledgment: We used geomagnetic data found at database of SuperMAG, INTERMAGNET, and WDC-C2 in Kyoto including scanned microfilms. We thank all the contributing observatories. We also used AE and Kp database.

Virtual Poster: VPS27 (EGU25-12948)



## UT distribution of high-AU events (1978-2019) [nT] independend peaks separated > 50 min 2200 2000 =unexpected? 1800 1600 (2024 - 5 - 11)1400 1200 3 9 12 15 peak UT 6 18 21 0 independend peaks separated > 50 min 8 6 reauent rare=2024-5-11 4 2 3 6 9 12 peak U 18 21 15 0

AU > 1400 nT

■ AU > 1600 nT

= AU > 1200 nT