

### **Response to Reviewer comment.**

**Comment 1:** I suggest a few minor changes to the revisions made by the authors. Akasofu (1964) did not discuss magnetic reconnection nor a series of substorms such as HILDCAAs. Therefore, the reference there is a bit incomplete.

I suggest adding the references: JGR, 77, 16, 2964-2970, 1972 and JGR, 78, 4, 617-629, 1973. These articles showed that isolated substorms were caused by magnetic reconnection. Akasofu is a coauthor of the second reference.

**Response:** We are indeed grateful for your contribution towards the improvement of the manuscript. The above suggested articles (Meng et al. 1973; Tsurutani et al. 1972) have been added to the revised manuscript in Line 38-39 as: (Akasofu, 1964; **Tsurutani et al., 1972; Meng et al., 1973;** Tsurutani and Gonzalez, 1987; Hajra et al., 2013; Liou et al., 2013; Mendes et al., 2017; Hajra and Tsurutani, 2018; Tsurutani and Hajra, 2021).

**Comment 2:** Line 38. “Convention” should be “convection”.

**Response:** The comment “convention” has been corrected to “convection” in Line 38 of the revised manuscript.