

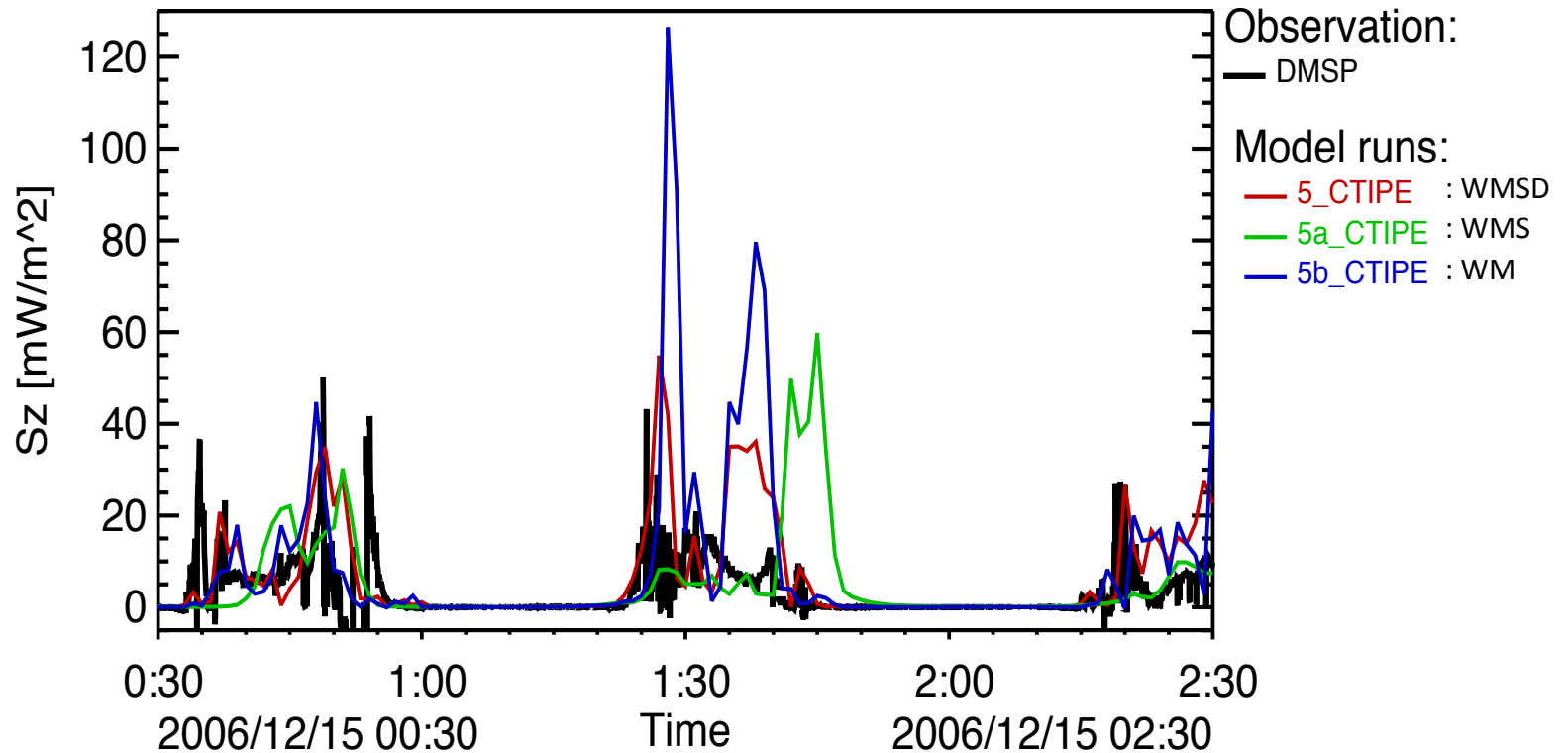
Sensitivity of model outputs to quality of input data

: CTIPe driven by AMIE_ASTR

Model Setting

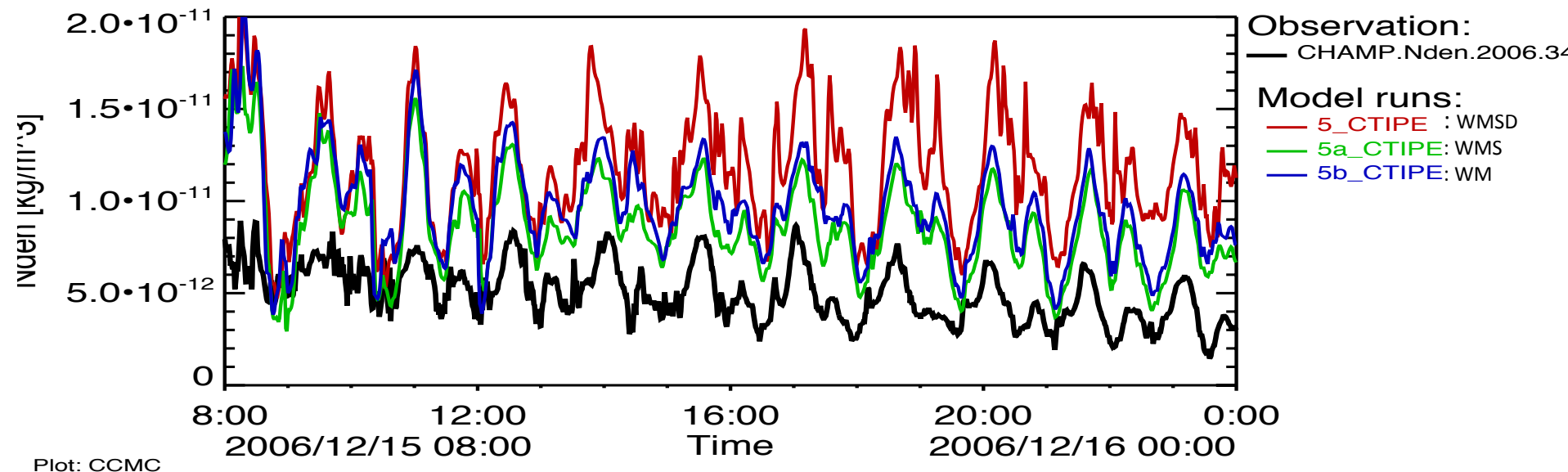
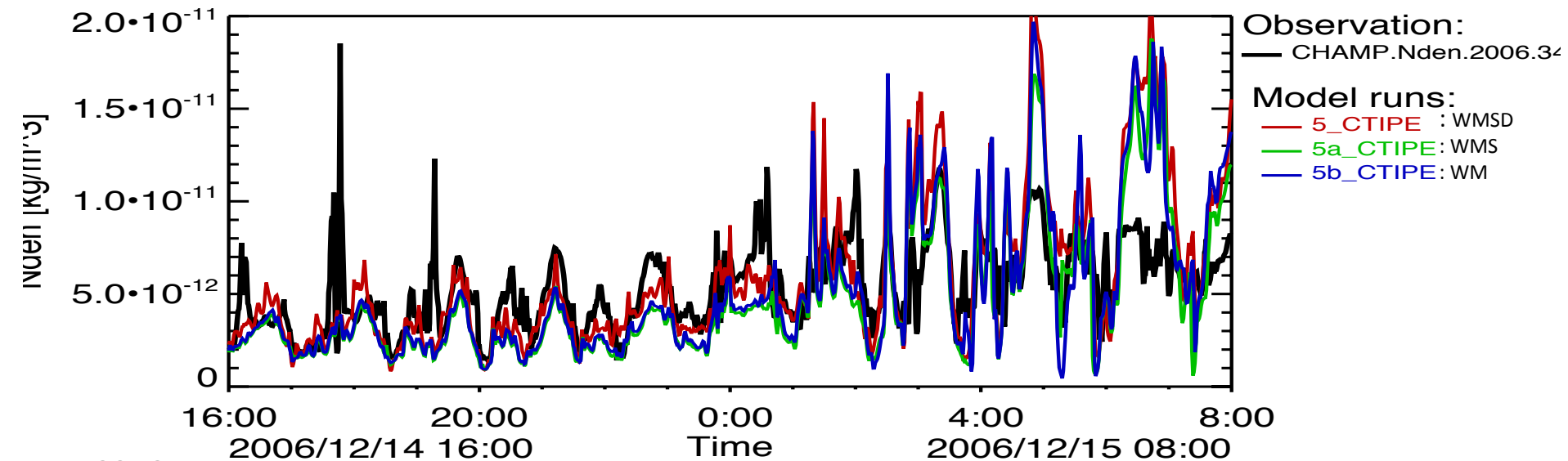
	Model Setting ID	Input data sources
1	5_CTIPE*	Magnetometers, SuperDARN, and DMSP
2	5a_CTIPE*	Magnetometers and SuperDARN
3	5b_CTIPE*	Magnetometers

Joule Heating along DMSP tracks



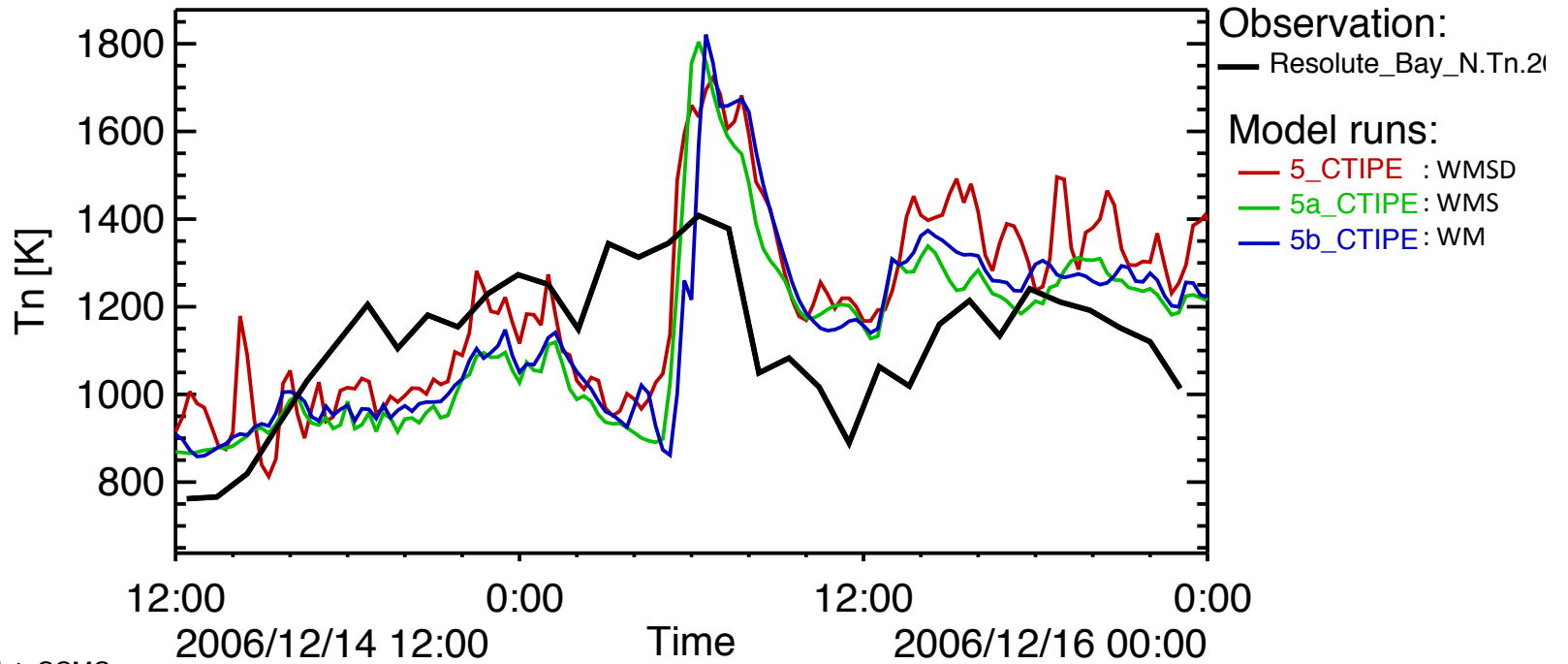
Plot: CCMC

Neutral density at the CHAMP location



Tn at 250 km in high latitude (Resolute Bay)

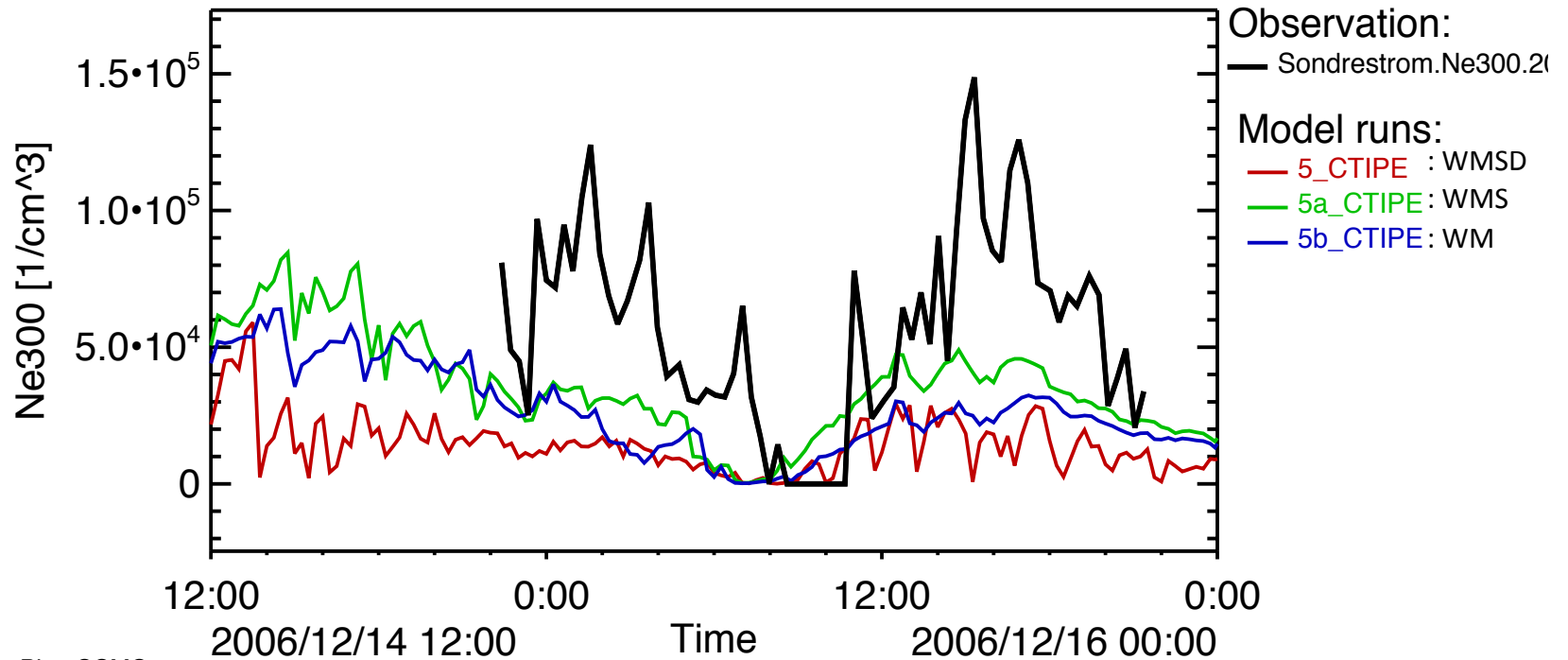
Tn from observatory file: Resolute_Bay_N.Tn.2006.348.dat



Plot: CCMC

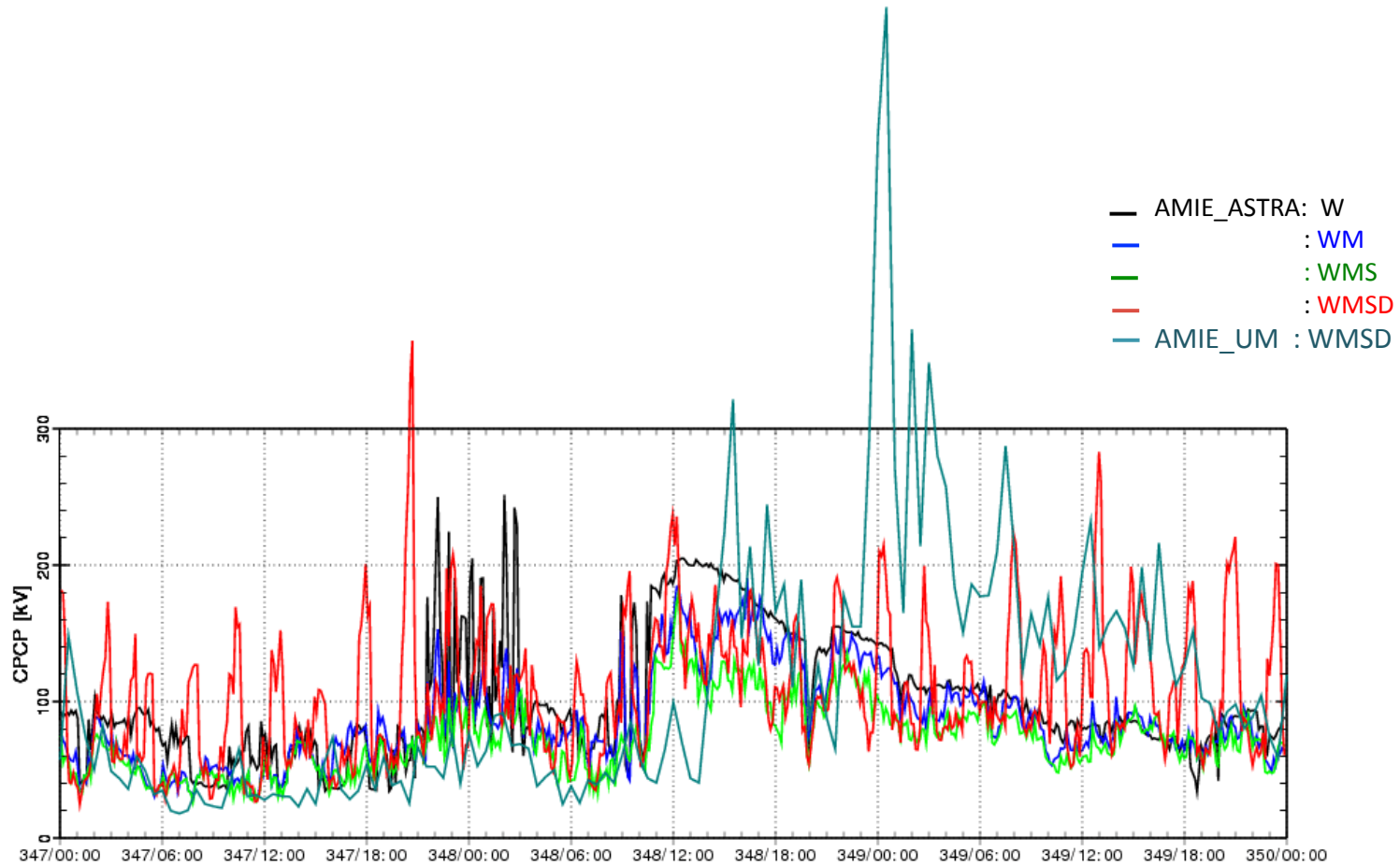
Ne at 300km in high latitude

Ne300 from observatory file: Sondrestrom.Ne300.2006.348.dat



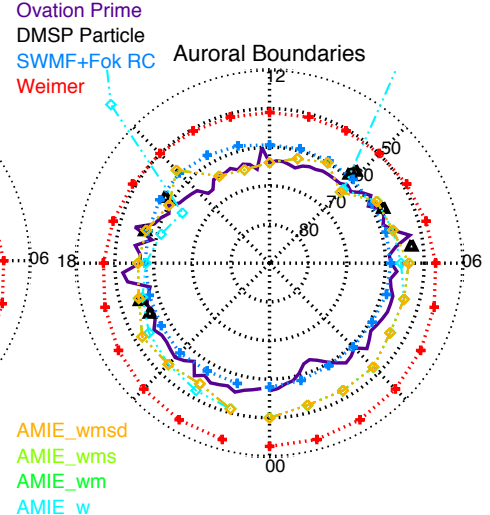
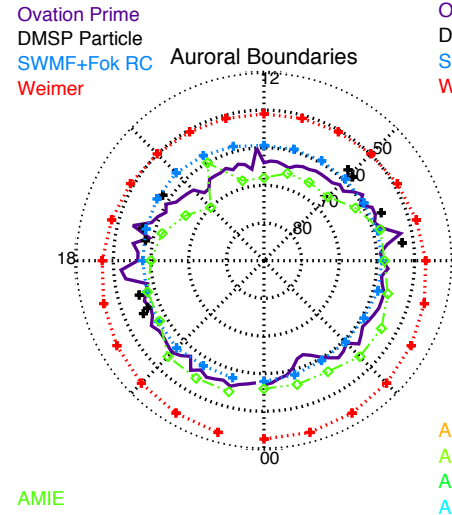
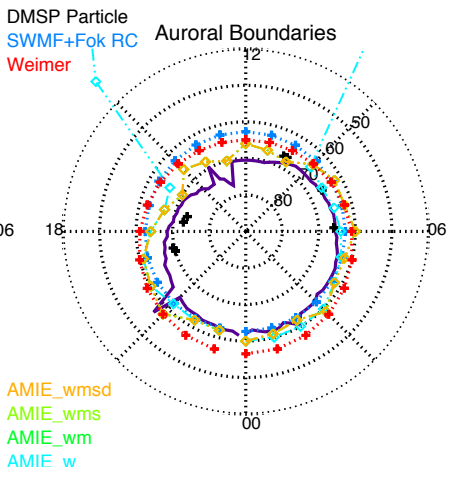
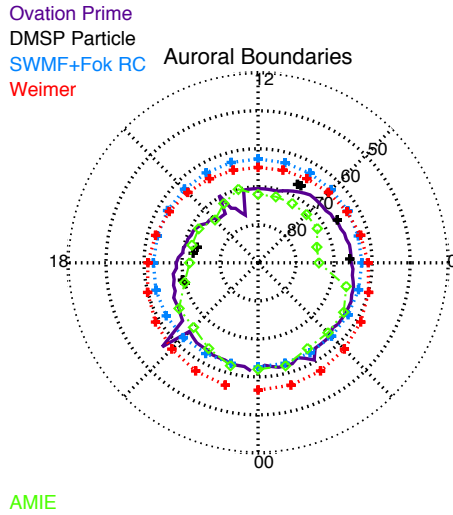
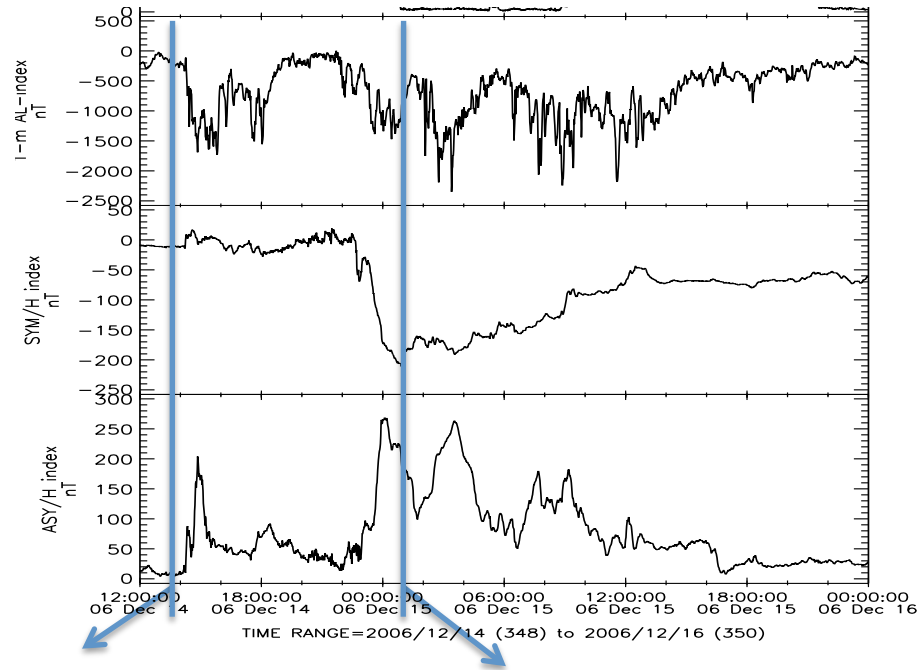
Plot: CCMC

CPCP



MLT distribution at different activity levels

Event:
14-16 December 2006



➔ Ovation Prime, AMIE perform better in capture MLT features

model performance at fixed MLT

- Equatorward expansion during geomagnetically active times (high Kp)
- Most-equatorward expansion at Dusk leads that at Dawn

