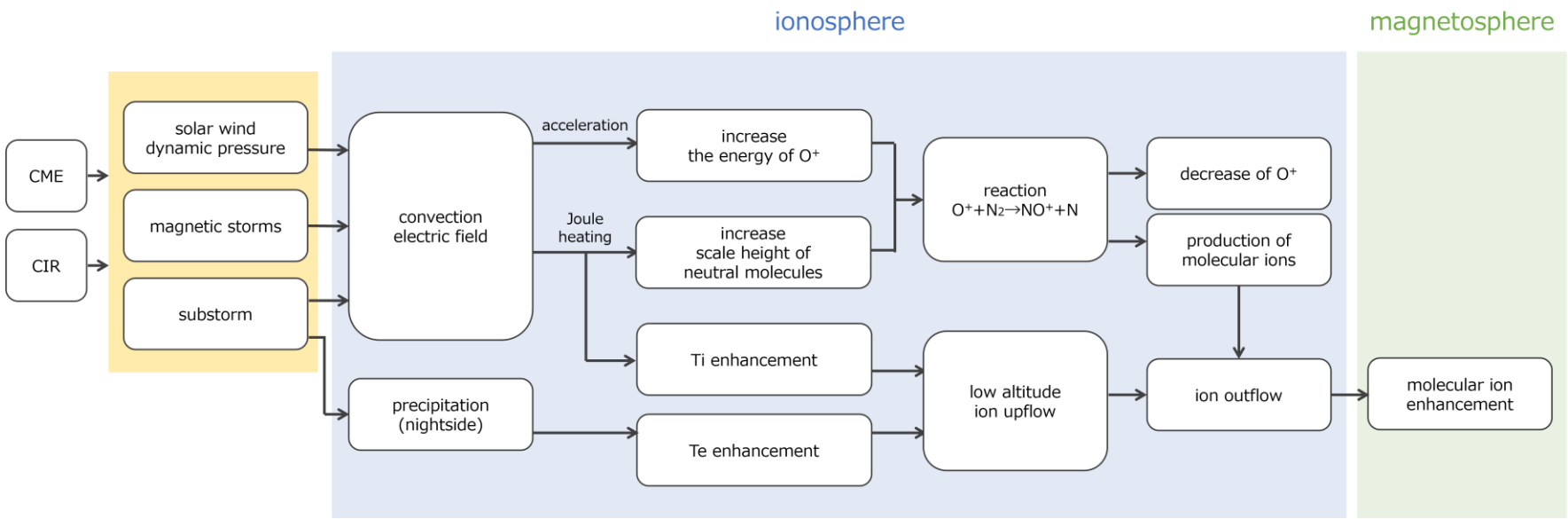
ionosphere
magnetosphere
CME
CIR
solar wind
dynamic pressure
magnetic storms
substorm
convection
electric field
precipitation
(nightside)
acceleration
Joule
heating
increase
the energy of O+
increase
scale height of
neutral molecules
Ti enhancement
Te enhancement
reaction
O++N2→NO++N
low altitude
ion upflow
decrease of O+
production of
molecular ions
ion outflow
molecular ion
enhancement

Figure 5