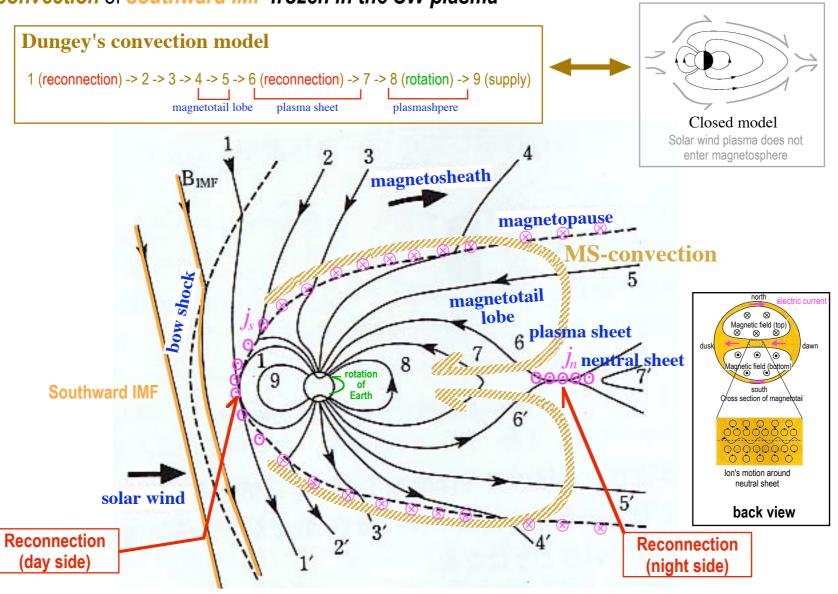
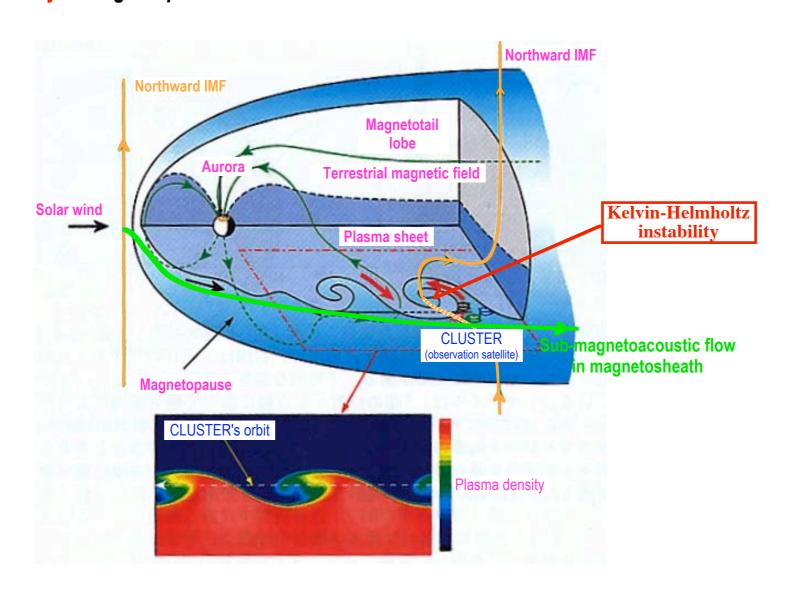
Injection of solar wind plasma into magnetosphere

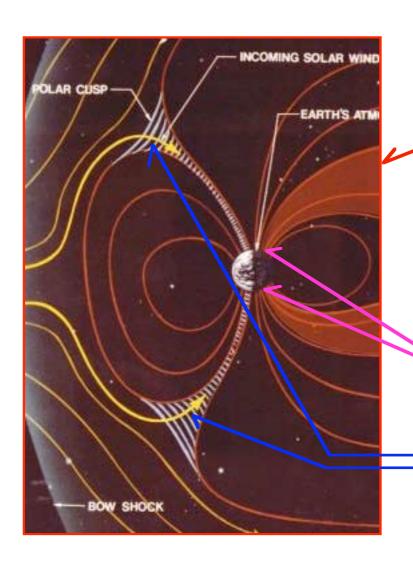
Explosive injection of solar wind plasma into magnetosphere via reconnection & convection of southward IMF frozen in the SW plasma

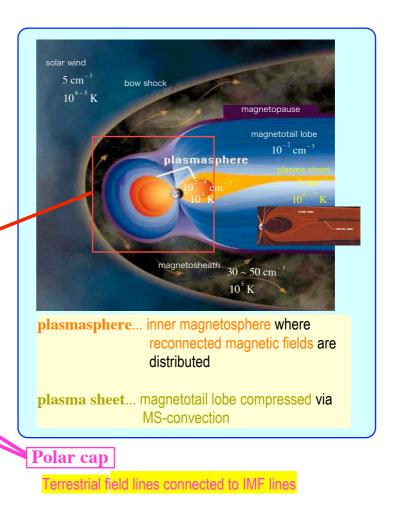


Non-explosive injection of solar wind plasma into magnetosphere via Kelvin-Helmholtz instability at magnetopause



Polar cap & polar cusp





Polar cusp

Neutral point =>

magnetosheath (SW) plasma can make a direct access to **ionosphere**