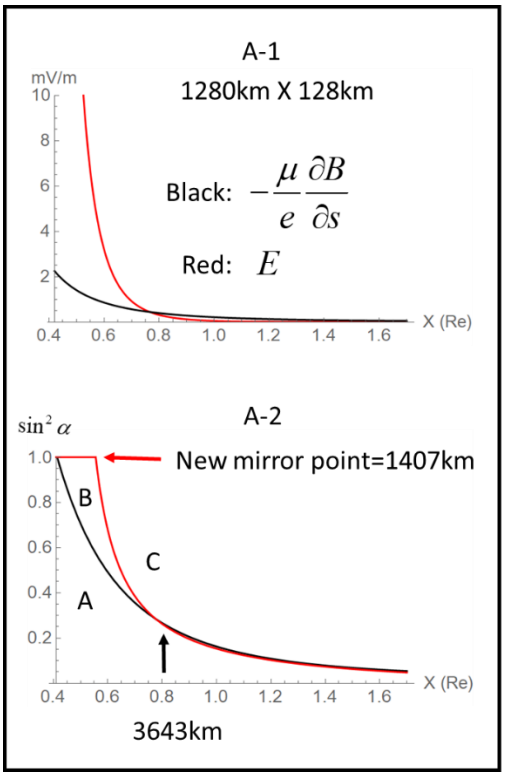
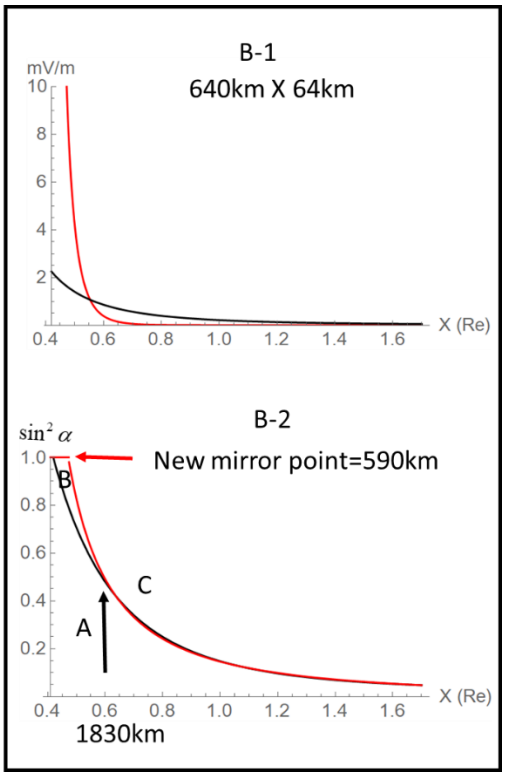
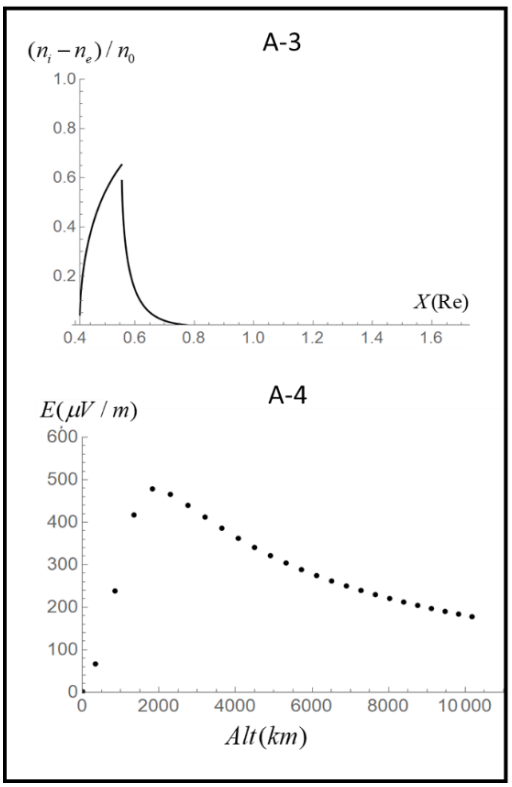

A-1
1280km X 128km
mV/m
Black: $-\frac{\mu}{e}\frac{\partial B}{\partial s}$
Red: E
X (Re)
A-2
$\sin^2\alpha$
New mirror point=1407km
A
B
C
X (Re)
3643km


B-1
640km X 64km
mV/m
X (Re)
B-2
$\sin^2\alpha$
New mirror point=590km
A
B
C
X (Re)
1830km


A-3
$(n_i - n_e)/n_0$
X(Re)
A-4
$E(\mu V/m)$
$Alt(km)$

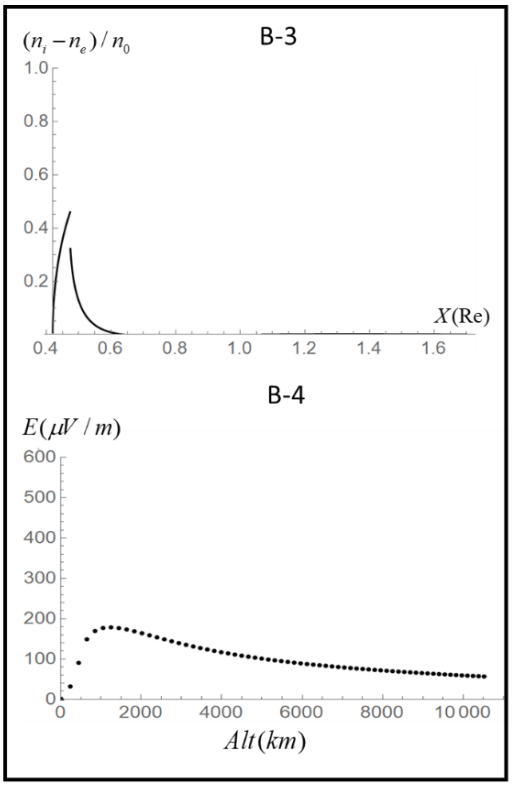

B-3
$(n_i - n_e)/n_0$
X(Re)
B-4
$E(\mu V/m)$
$Alt(km)$

Figure 1

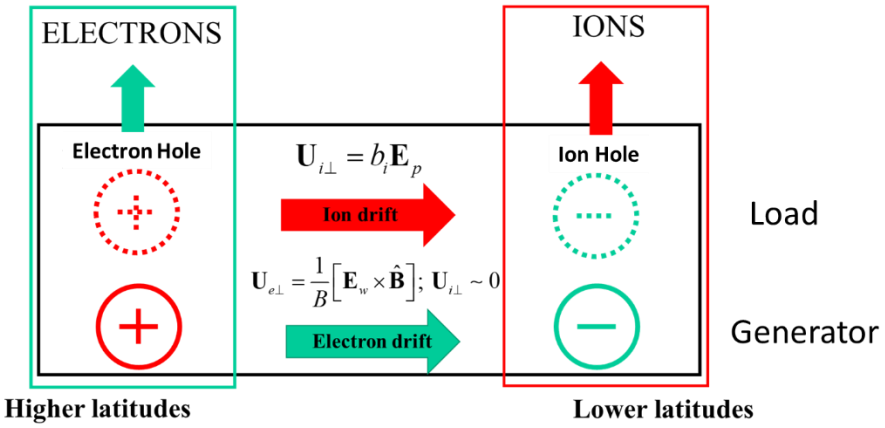

ELECTRONS
IONS
Electron Hole
Ion Hole
$\mathbf{U}_{i\perp} = b_i \mathbf{E}_p$
Ion drift
$\mathbf{U}_{e\perp} = \frac{1}{B}\left[\mathbf{E}_w \times \hat{\mathbf{B}}\right]; \mathbf{U}_{i\perp} \sim 0$
Electron drift
Load
Generator
Higher latitudes
Lower latitudes

Figure 2