

Figure 1. (a) A typical case of magnetic storm in June, 2013. (b, c) Observed lifetime (case results) of H^+ and O^+ as a function of L in five different energies.

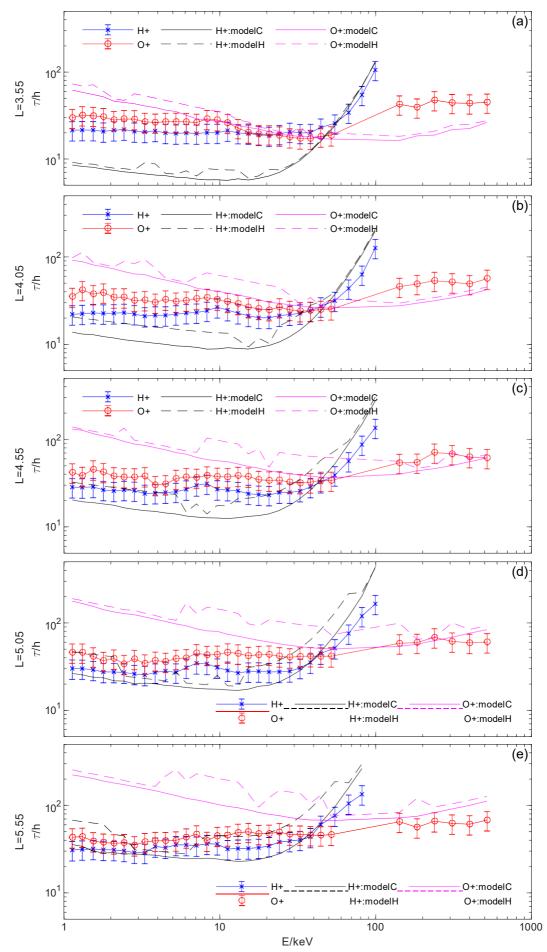


Figure 2. Statistic results presented in a line plot format. (a-e) Blue solid line is observed lifetimes of H^+ , with $\pm 25\%$ error bars. Red solid line is observed lifetimes of O^+ , with $\pm 25\%$ error bars. Dark solid line is theoretical predicted lifetimes of H^+ , using Chamberlin model. Dark broken line is theoretical predicted lifetimes of O^+ , using Hodges model. Magenta solid line is theoretical predicted lifetimes of O^+ , using Hodges model.

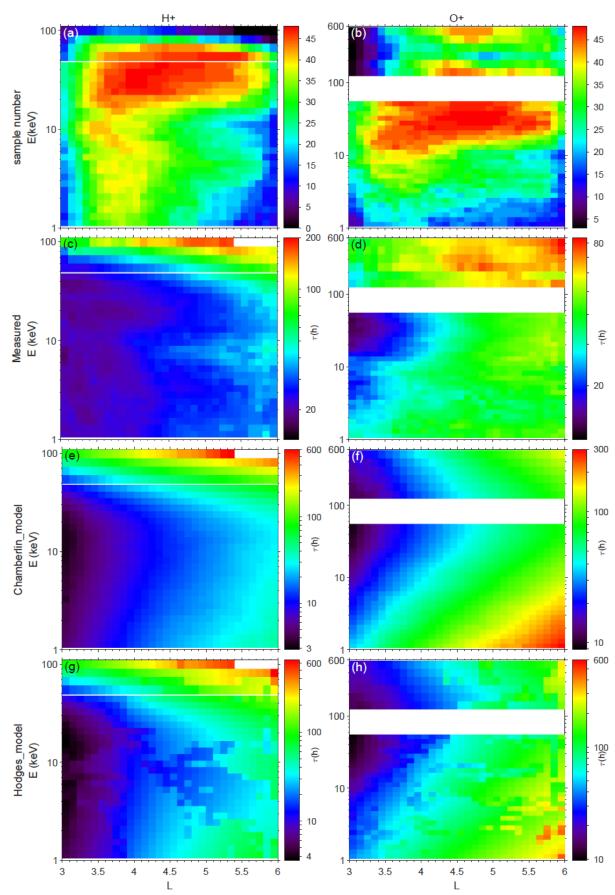


Figure 3. (a, b) Number of available cases in every pixel of E and L. (c, d) Observed lifetimes. (e, f) Theoretical predicted lifetimes by using Chamberlin model. (g, h) Theoretical predicted lifetimes by using Hodges model. Note that left column shows the results of O^+ .

