Table 1 – Integration of Omni-Directional Fluxes

1. The formula that calculated the energy density values for the table was , where ϕ was the omni-directional fluxes. The formula that was used to calculate the particle density values for the table was , where ϕ was the omni-directional fluxes. However, we also changed the units to cm/s, so there was a conversion factor involved and the equations used to calculate the values in the code were as follows. For energy density, the equation was , while the equation for particle density was. I did this for L = 4.6 and L = 6.8, both sets of values are included in the table.

2. The data files used can be found in the Data Files folder of the Omn Graph and Table folder of the Graphs and Tables folder that I gave you. The data files used for this table were as follows:

Data File Name

4.6 No Waves ubcmaBomn.001

4.6 ECH Waves echmaAomn.001

4.6 UBC Waves ubcmaComn.001

4.6 LBC Waves lbcmaAomn.001

6.8 No Waves lbcmaBomn.001

6.8 ECH Waves echmaAomn.001

6.8 UBC Waves ubmaxAomn.001

6.8 LBC Waves lbcmaAomn.001

Table 2 – Total Energy Flux

1. The formula that calculated the total energy flux values for the table was , where was the upward or downward fluxes of the ECH, UBC, LBC, or all 3 wave cases. This was also done for both 4.6 and 6.8. You just gave me the 2 thermal fluxes, I don’t have the data files nor do I know which files the data came from.

2. The data files used can be found in the Data Files folder of the newmw2 folder of the Graphs and Tables folder that I gave you. The data files used for this table were as follows:

Data File Name

4.6 No Waves ubcmaBatm.001

4.6 ECH Waves echmaAatm.001

4.6 UBC Waves ubcmaCatm.001

4.6 LBC Waves lbcmaAatm.001

4.6 All three newmw2atm.001

6.8 No Waves lbcmaBatm.001

6.8 ECH Waves echmaAatm.001

6.8 UBC Waves ubmaxAatm.001

6.8 LBC Waves lbcmaAatm.001

6.8 All three newmw2atm.001

Table 3 – Total Particle Flux

1. The formula that calculated the total particle flux values for the table was , where was the upward or downward fluxes of the ECH, UBC, LBC, or all 3 wave cases. This was also done for both 4.6 and 6.8.

2. The data files used can be found in the Data Files folder of the newmw2 folder of the Graphs and Tables folder that I gave you. The data files used for this table were as follows:

Data File Name

4.6 No Waves ubcmaBatm.001

4.6 ECH Waves echmaAatm.001

4.6 UBC Waves ubcmaCatm.001

4.6 LBC Waves lbcmaAatm.001

4.6 All three newmw2atm.001

6.8 No Waves lbcmaBatm.001

6.8 ECH Waves echmaAatm.001

6.8 UBC Waves ubmaxAatm.001

6.8 LBC Waves lbcmaAatm.001

6.8 All three newmw2atm.001