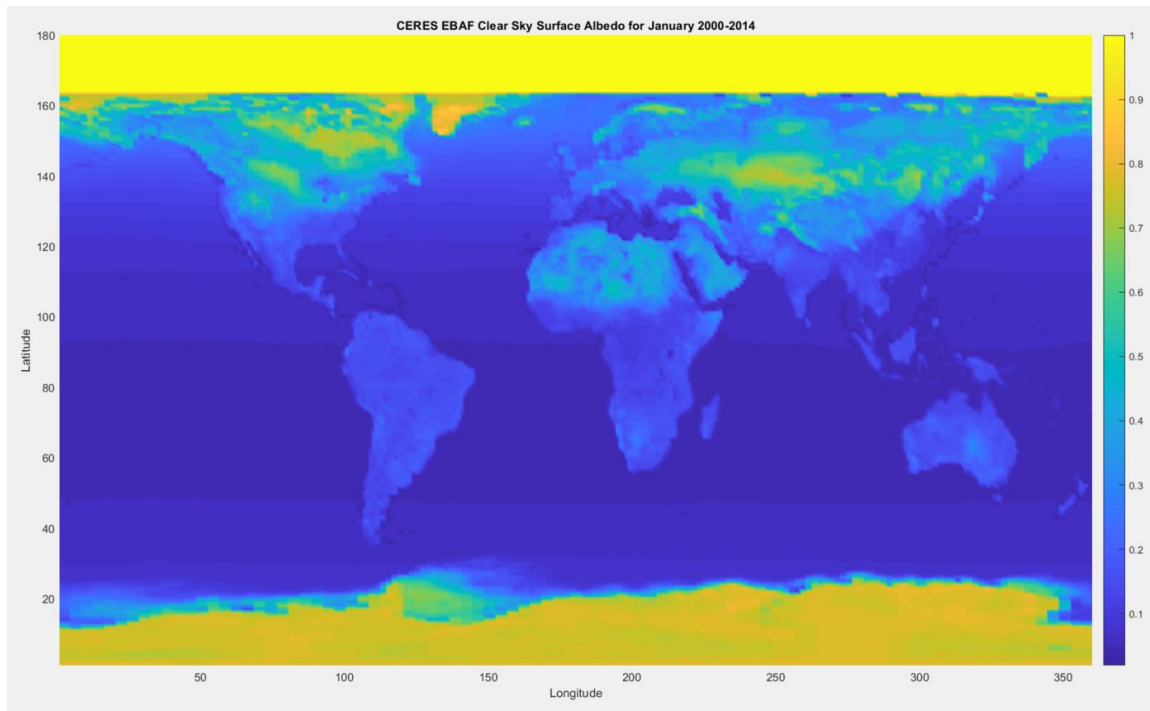
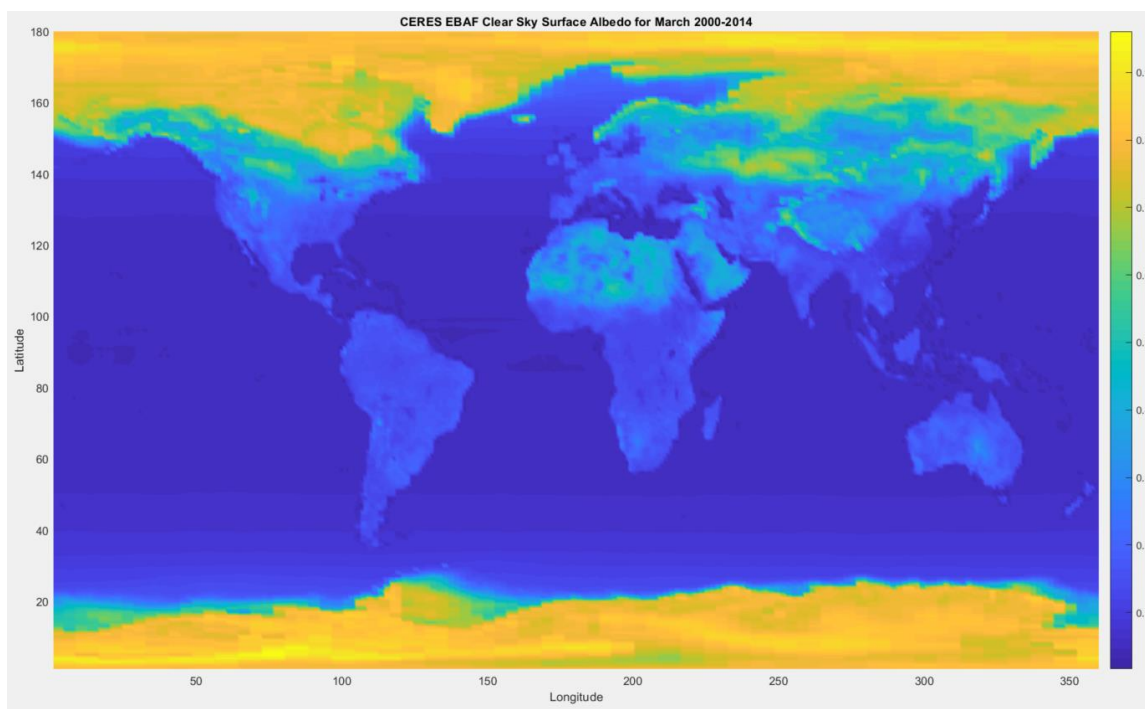
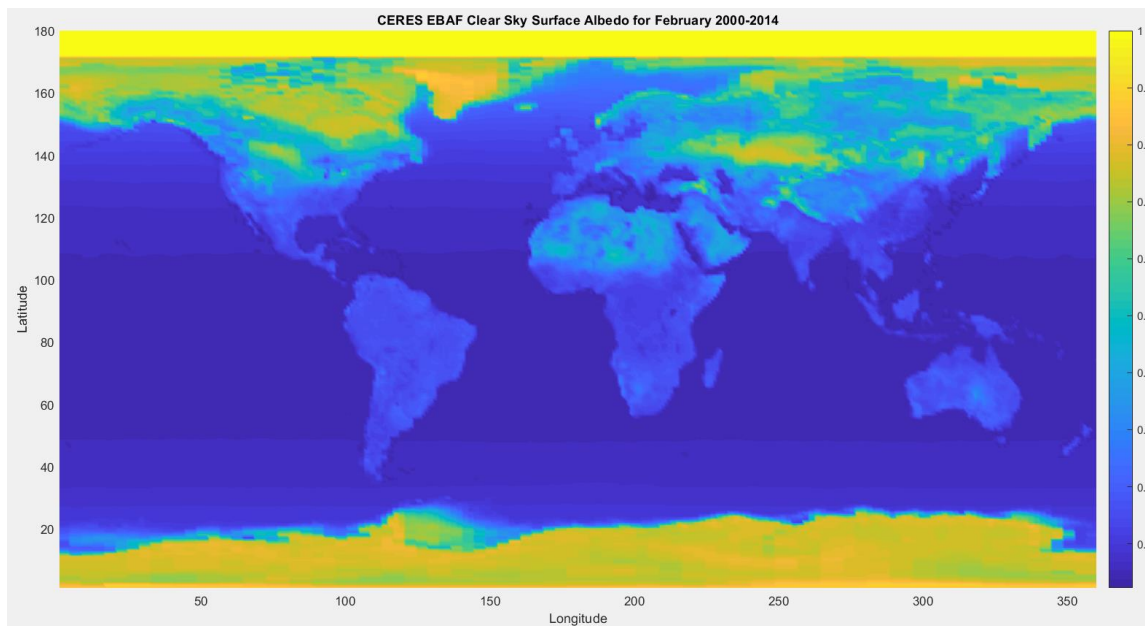
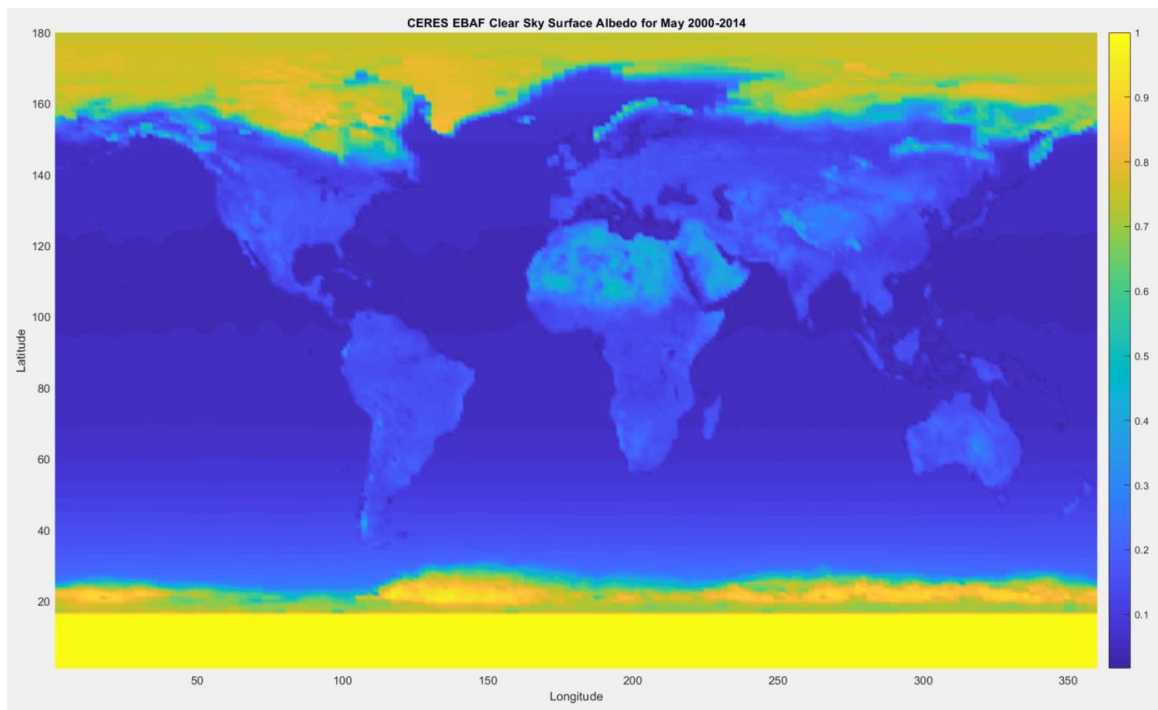
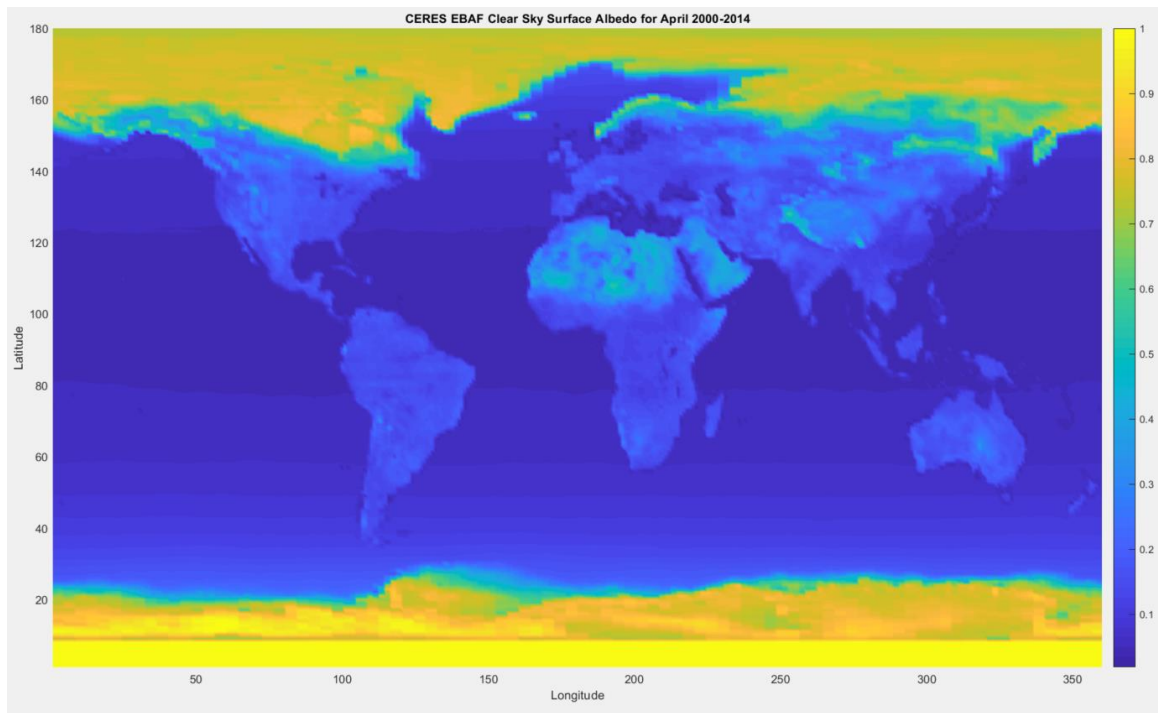


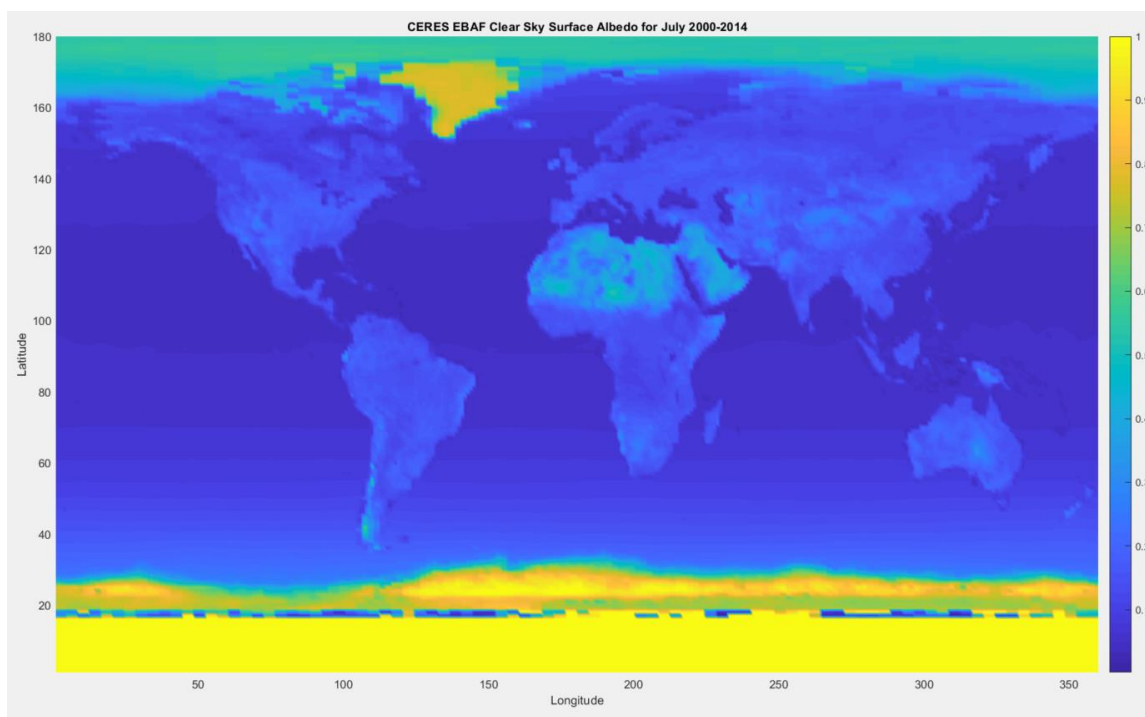
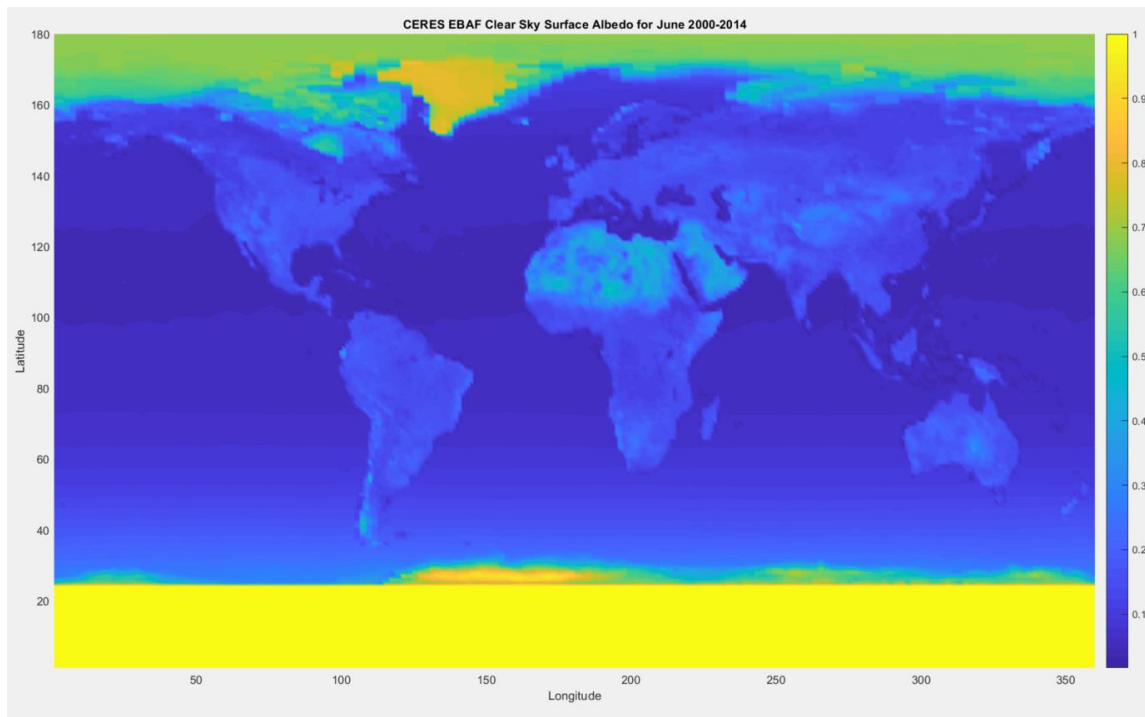
## APPENDIX A – INPUT ALBEDO MAPS FOR TWOD EBM

Input CERES albedo maps for all twelve months, including the four that were provided within the main body of this thesis.

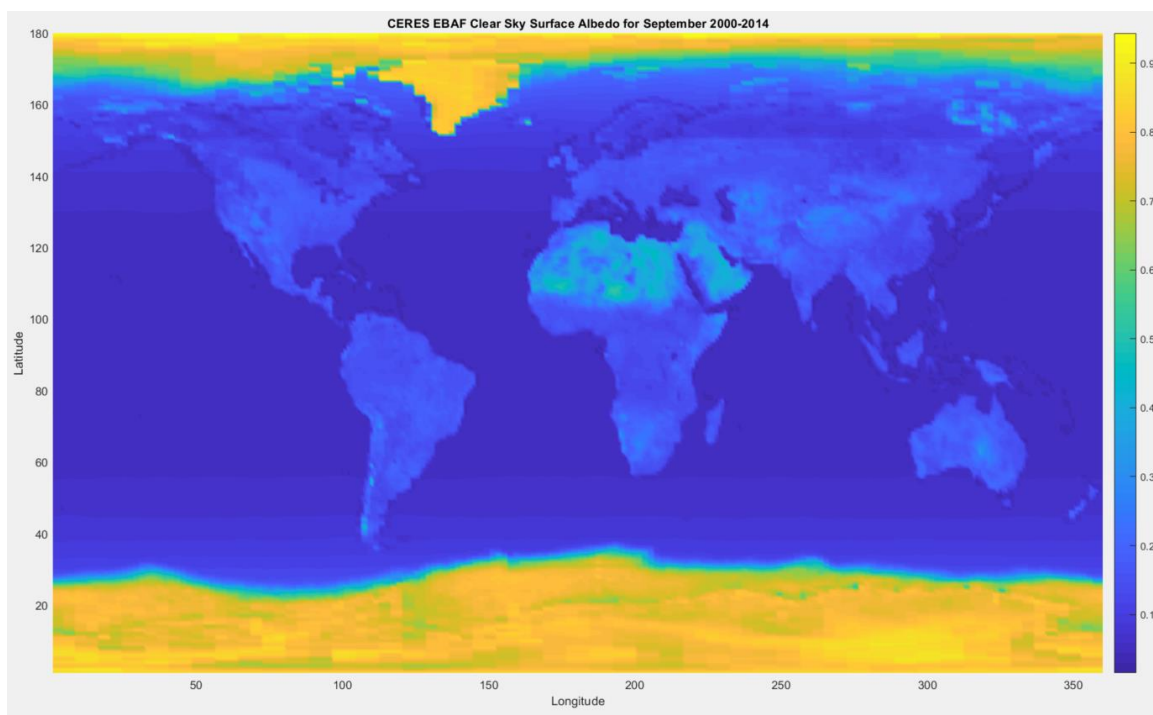
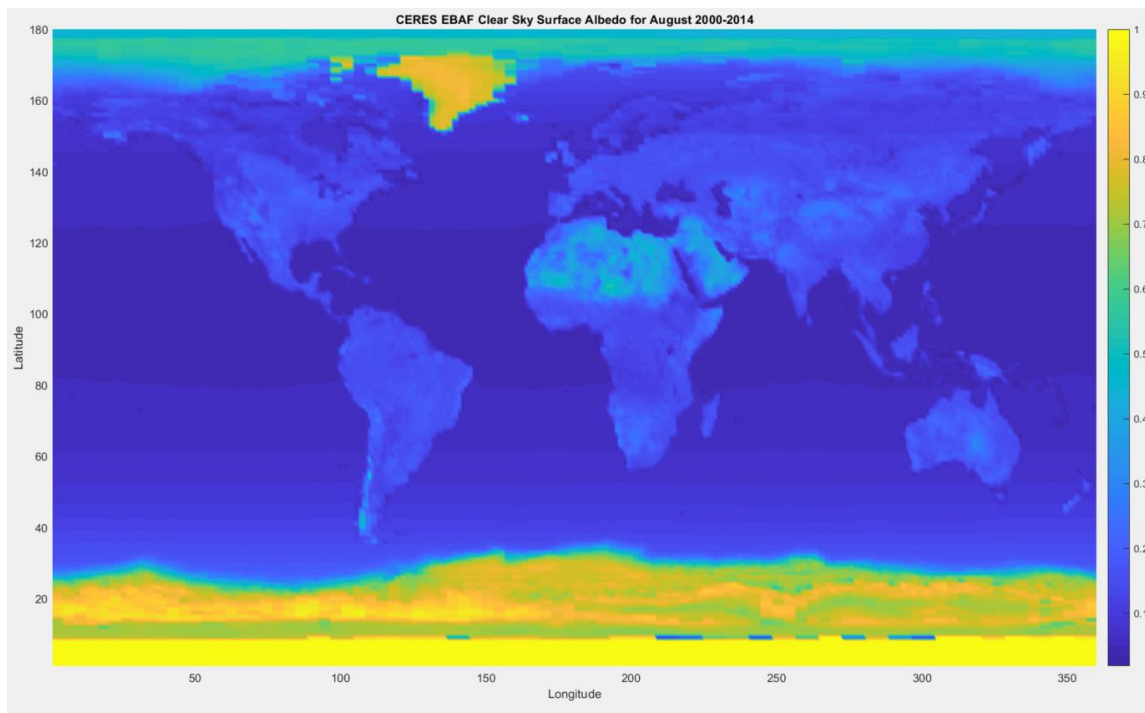


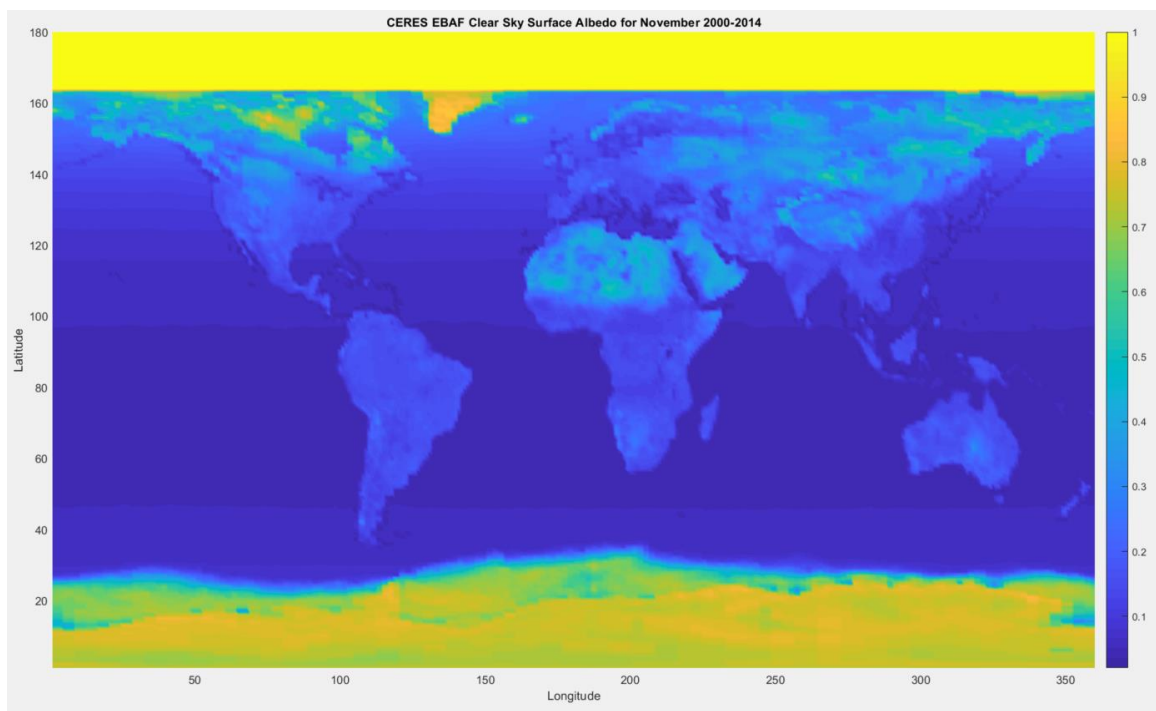
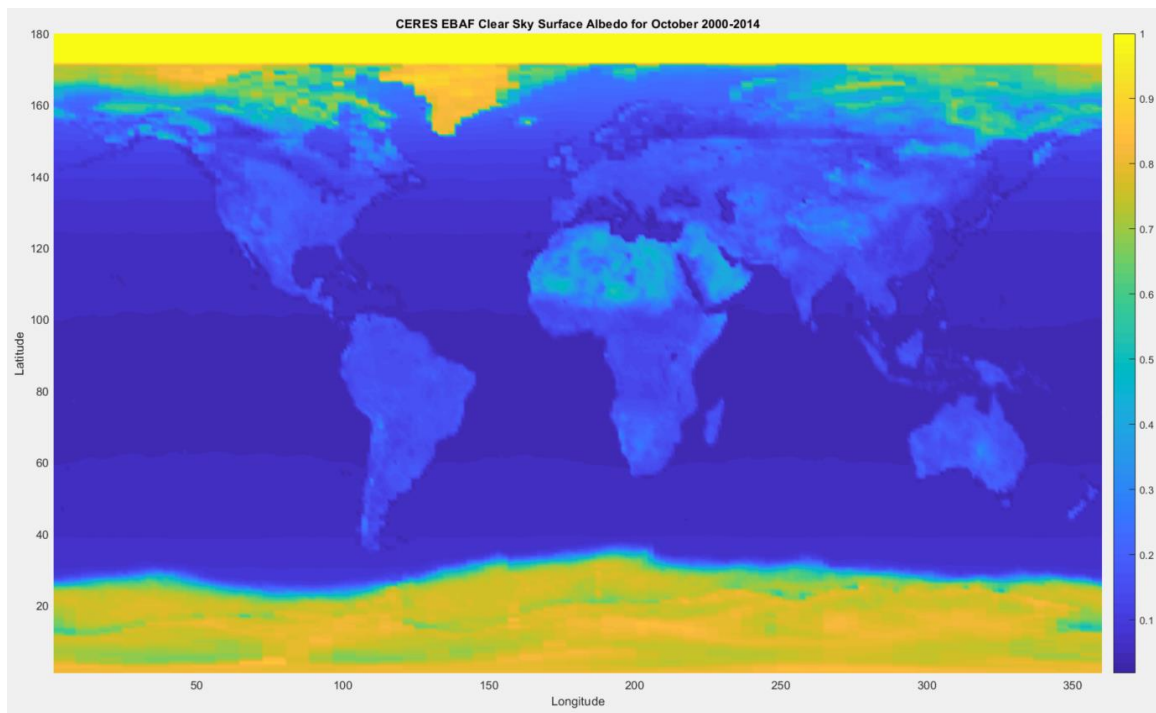


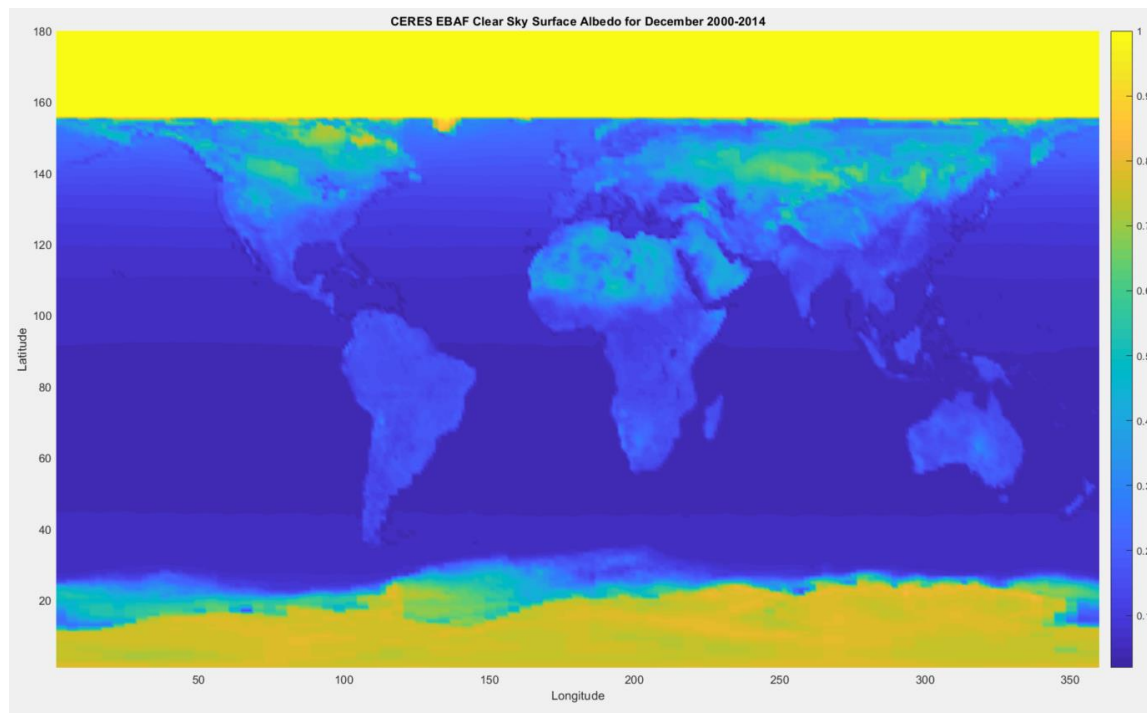








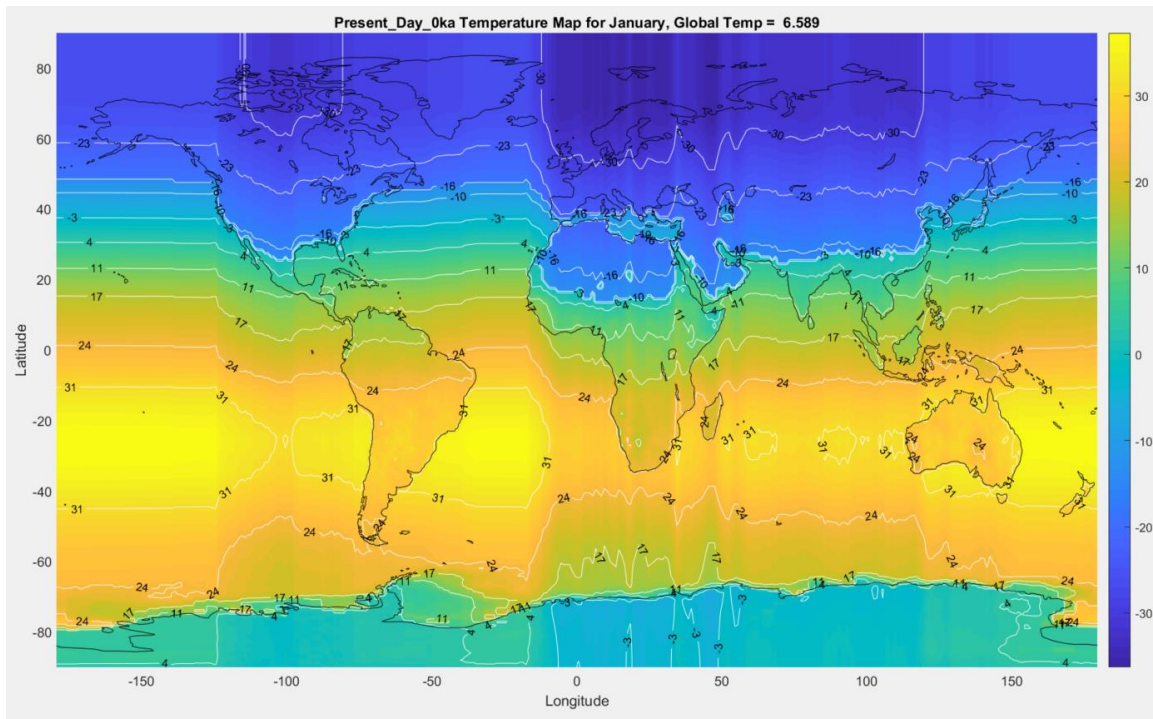




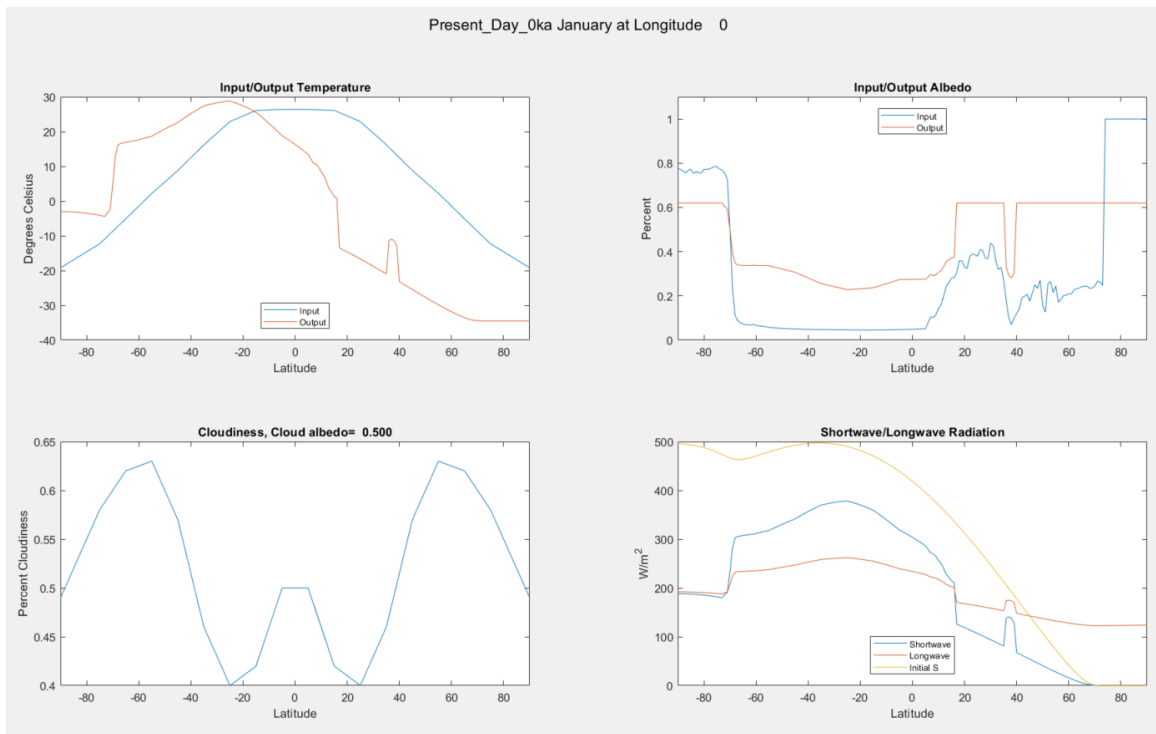
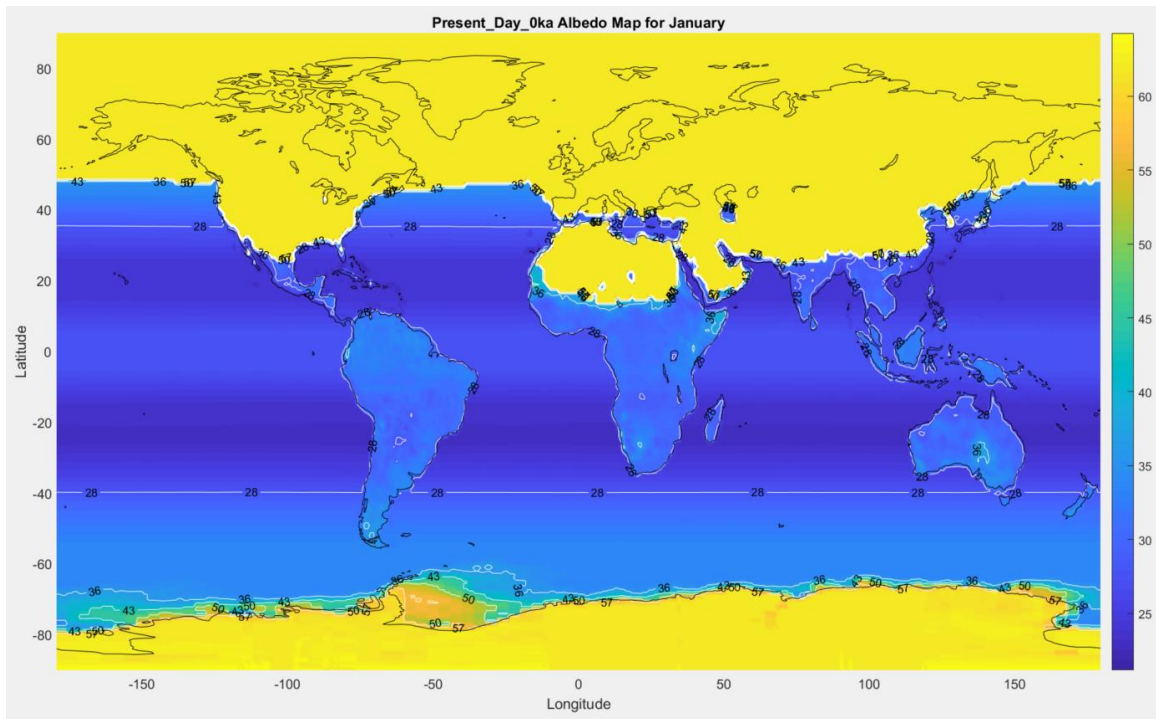
## APPENDIX B – OUTPUT TEMPERATURE AND ALBEDO MAPS FOR TWOD EBM

Output albedo and temperature maps for all twelve months including those provided in the main thesis text are provided within the context of the default parameters using the TwoD\_CERES model, i.e.: present-day insolation, orbital parameters,  $T_{\text{CritLand}} = 0^{\circ}\text{C}$ ,  $T_{\text{CritOcean}} = -13^{\circ}\text{C}$ ,  $A_{\text{ice}} = 0.62$ ,  $\text{CALB} = 0.5$ ,  $A = 204$ ,  $B = 2.17$ ,  $C = 3.81$ ,  $S_x = 1$ . The graphs provided for one line of longitude are taken from longitude zero.

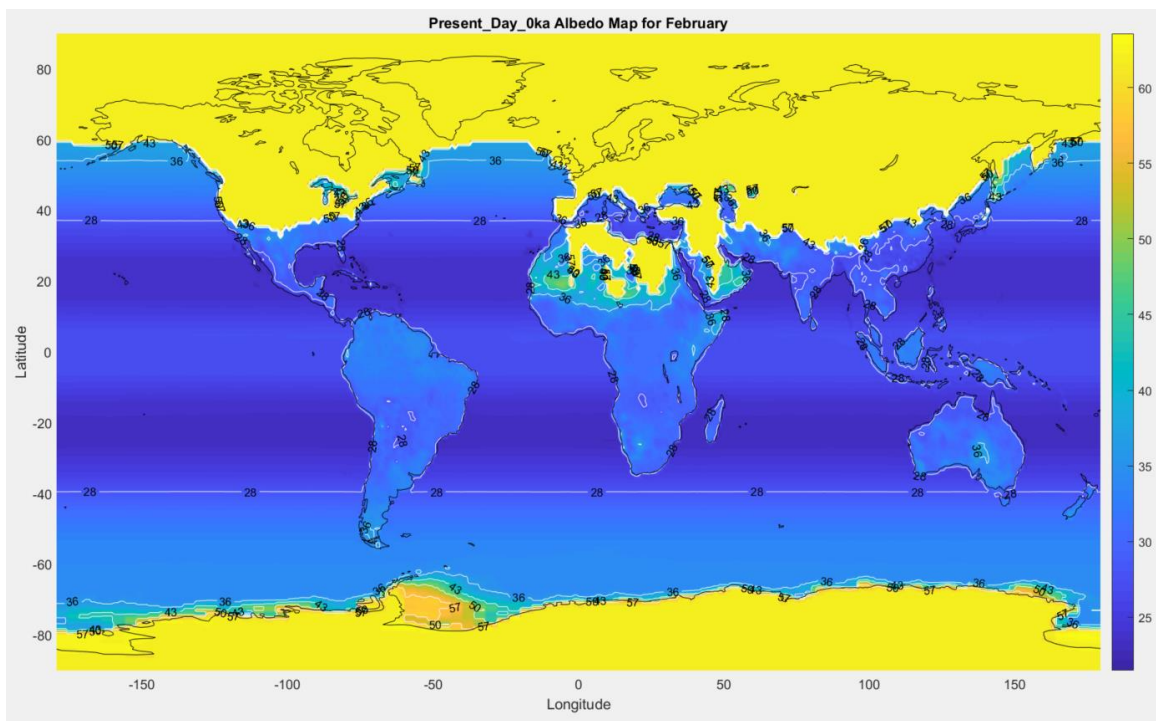
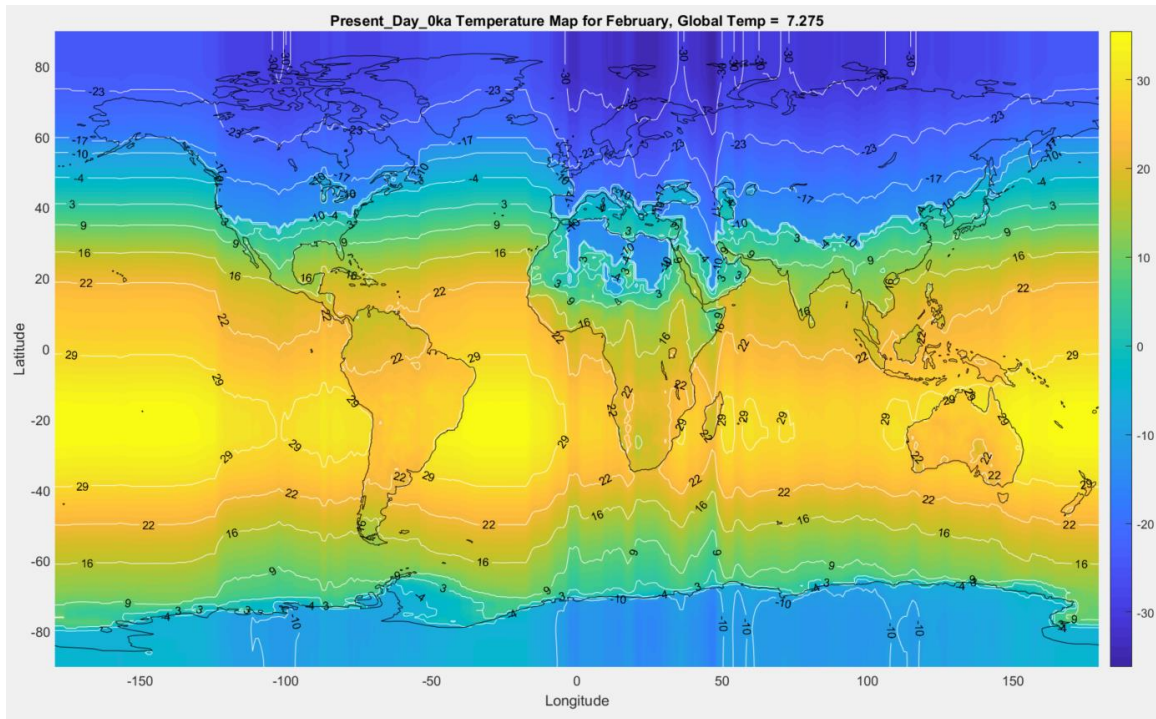
January



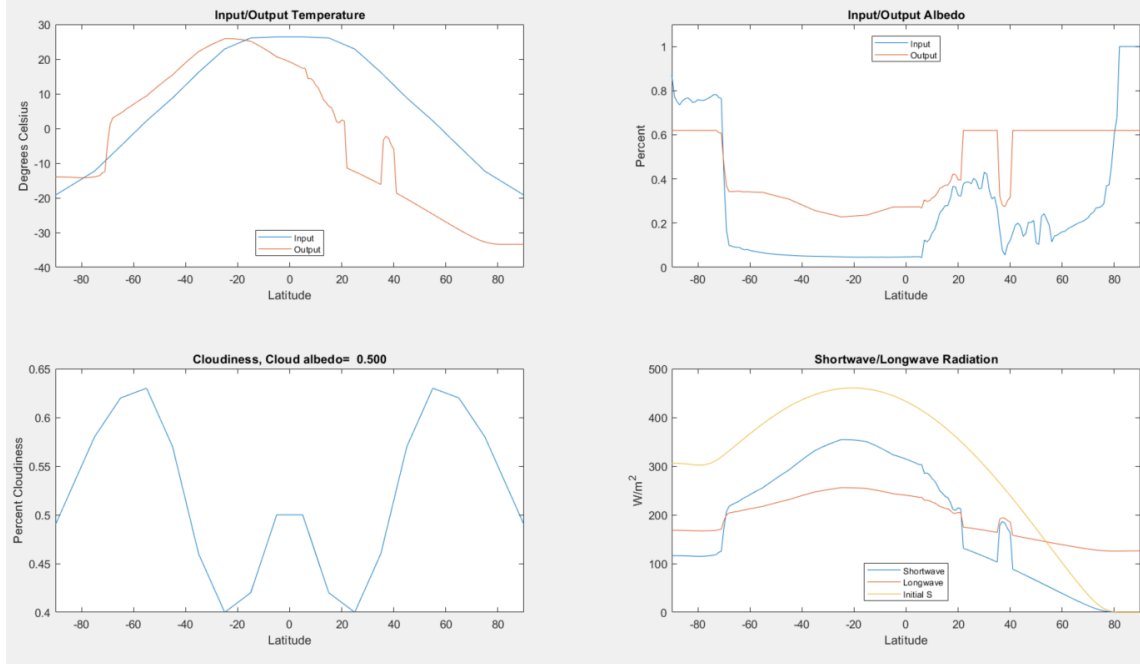




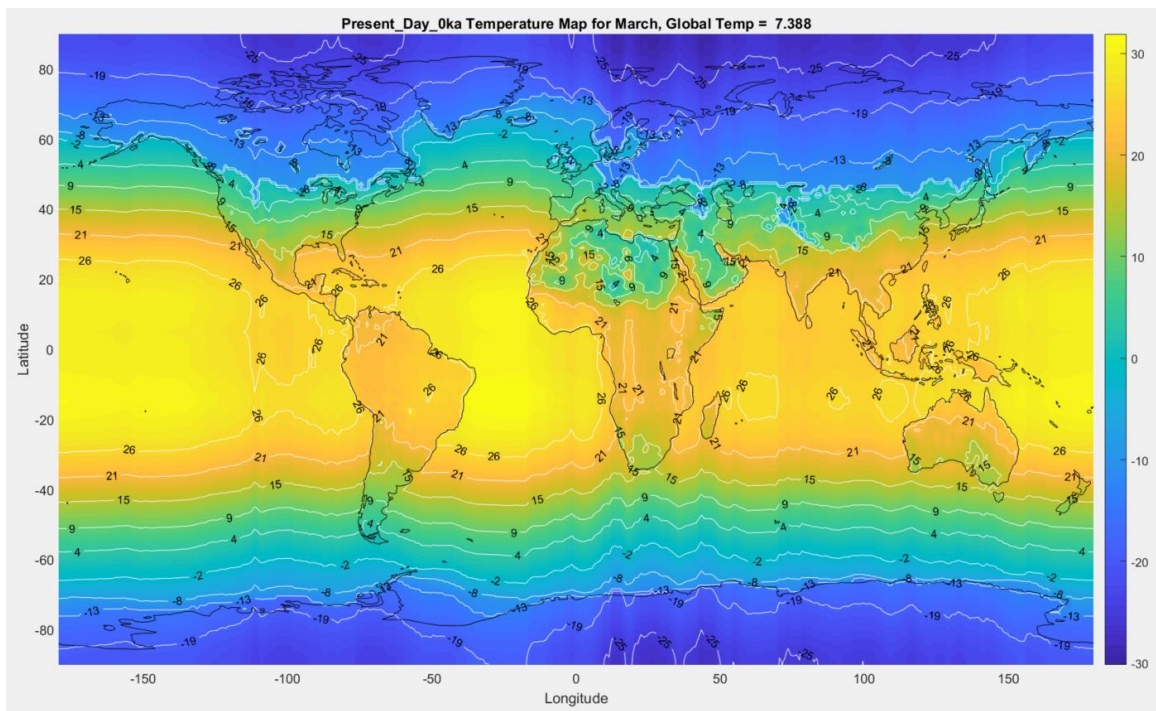
February:

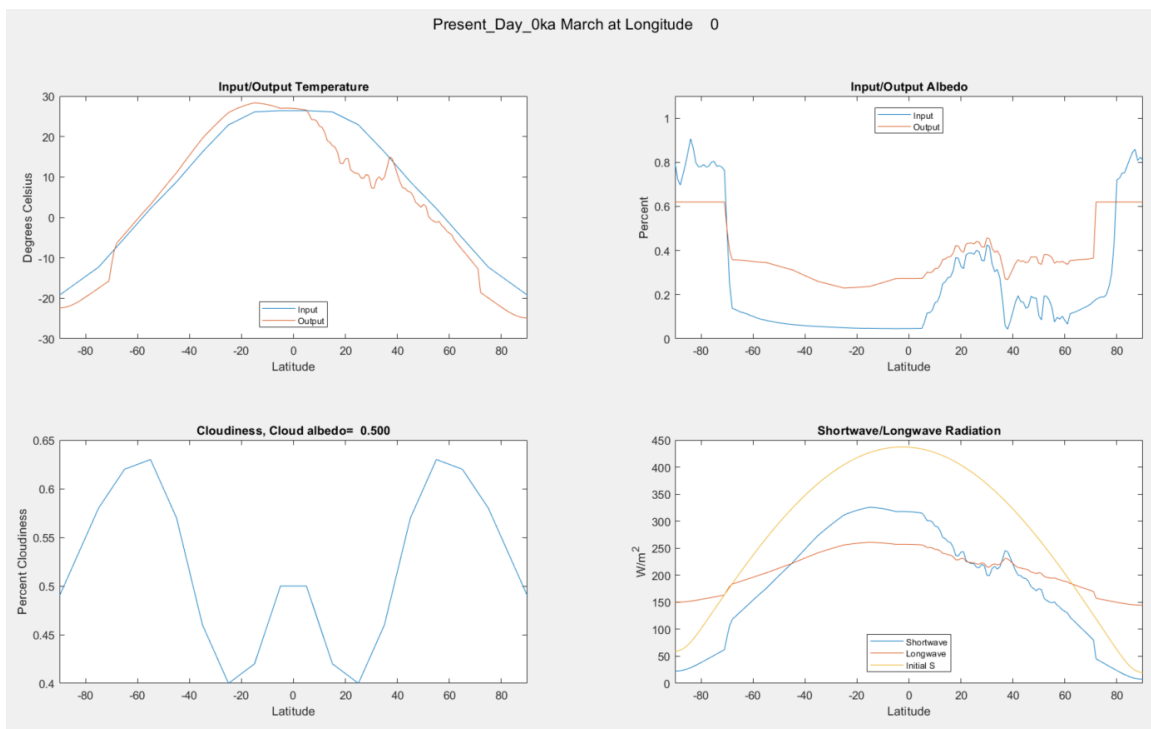
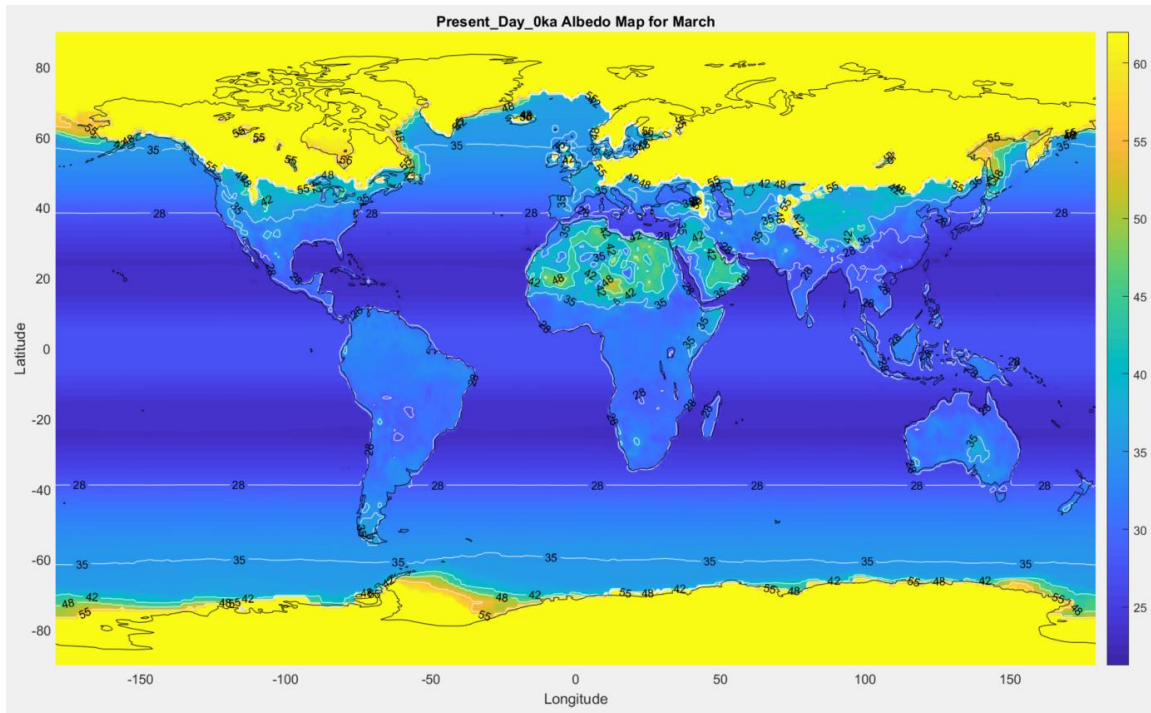


Present\_Day\_0ka February at Longitude 0



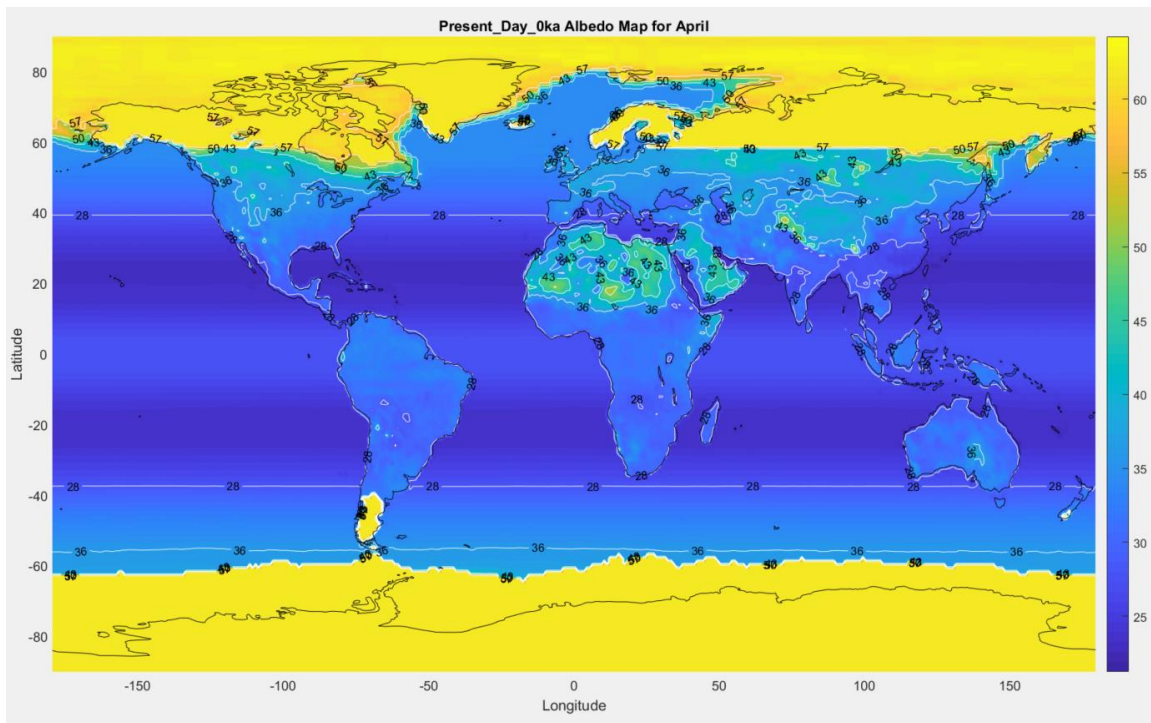
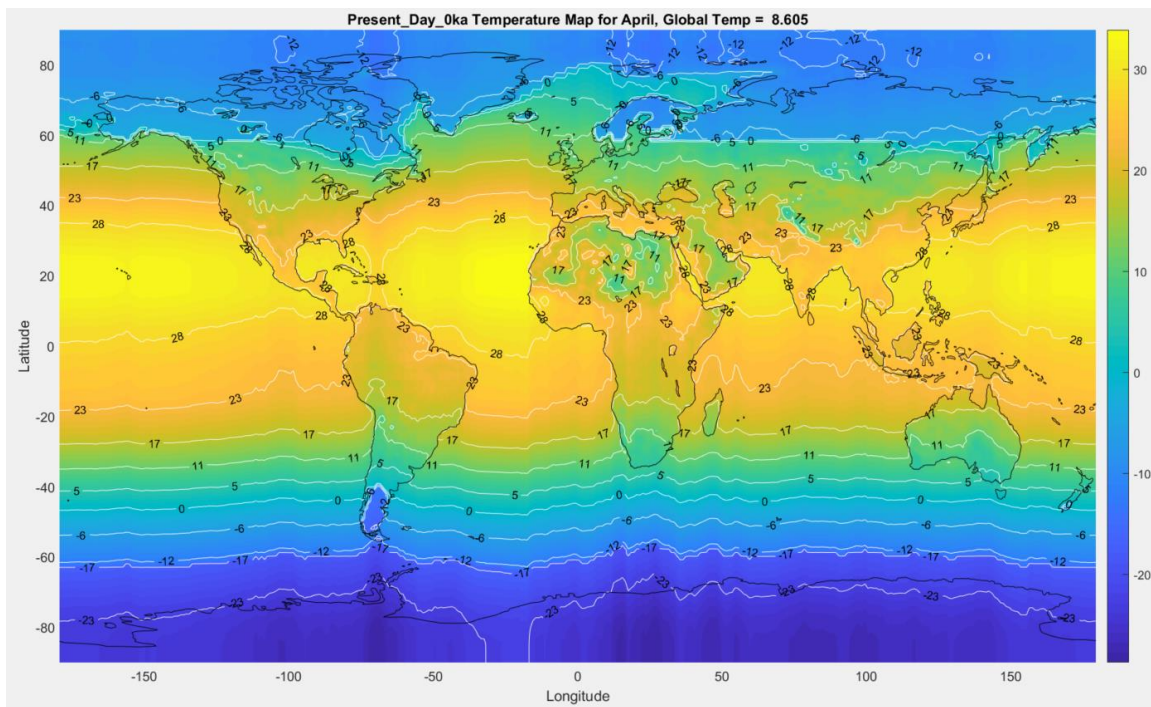
March:





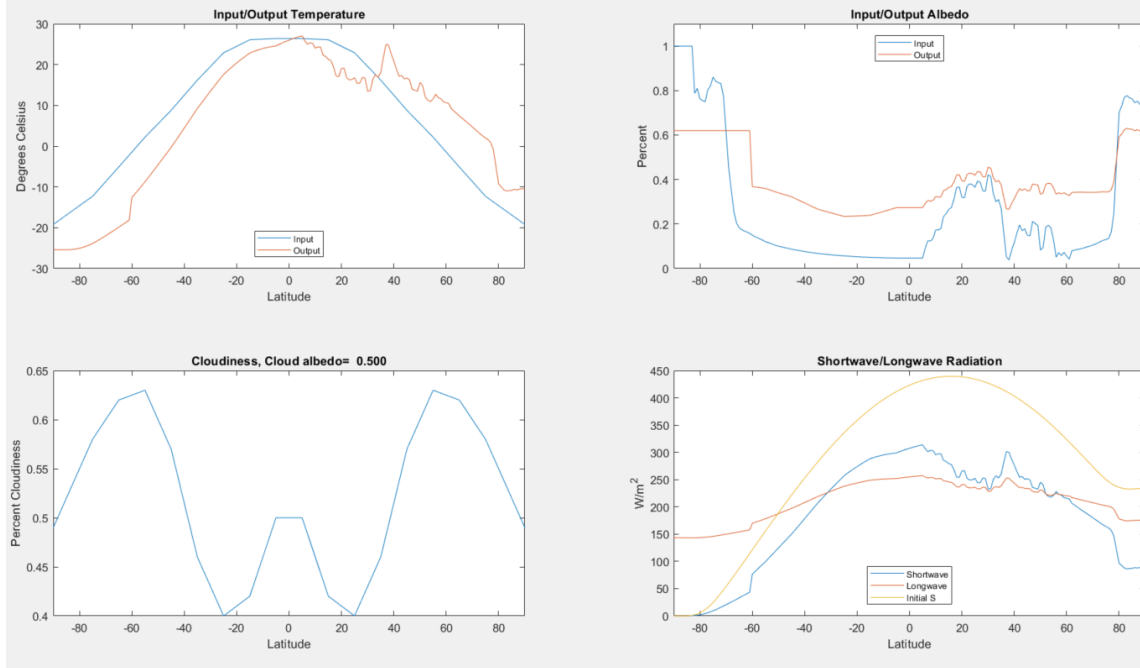
April:



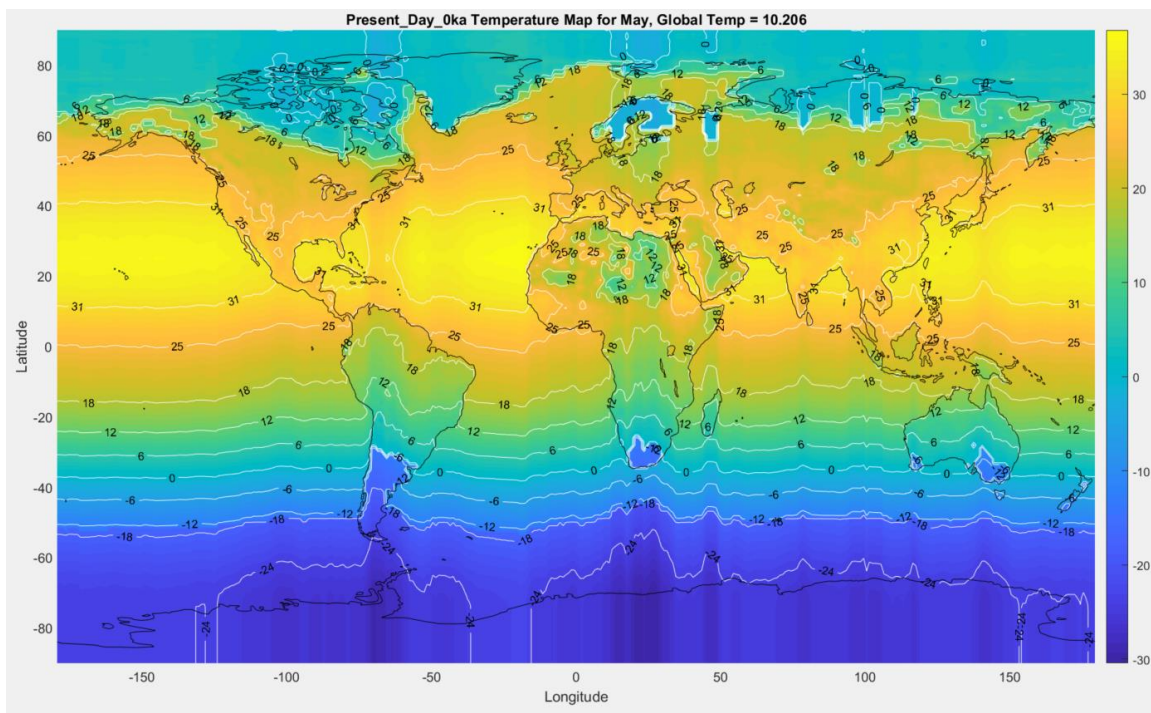


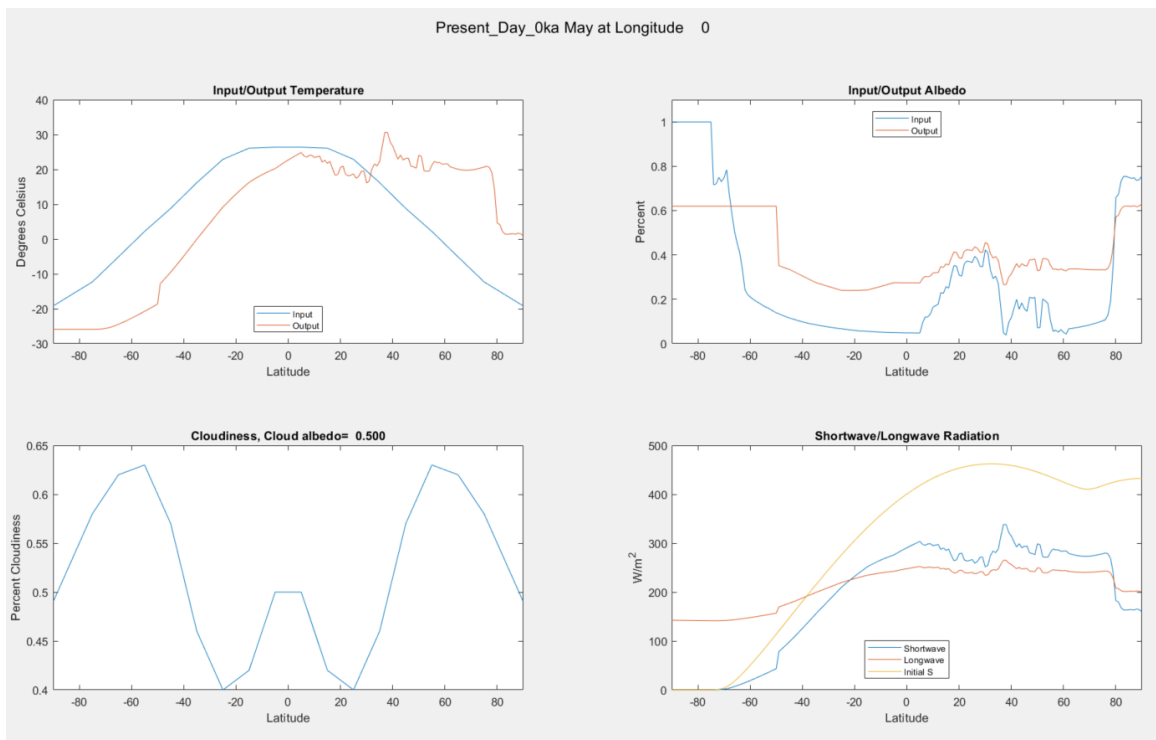
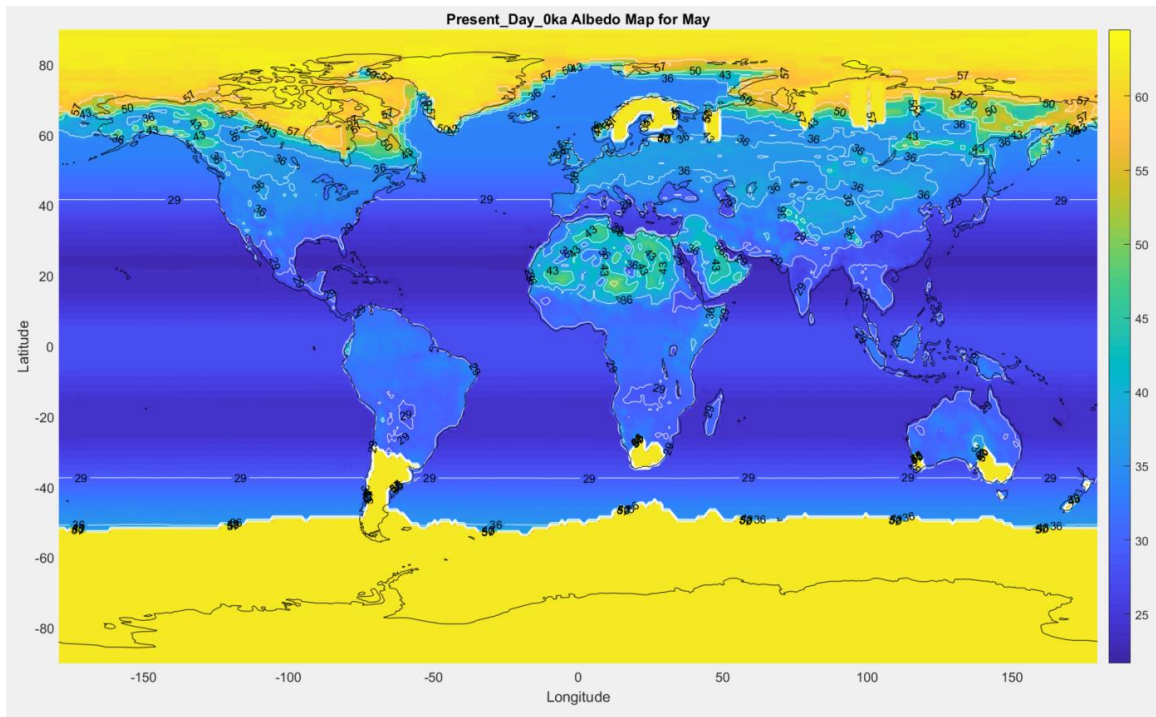


Present\_Day\_0ka April at Longitude 0

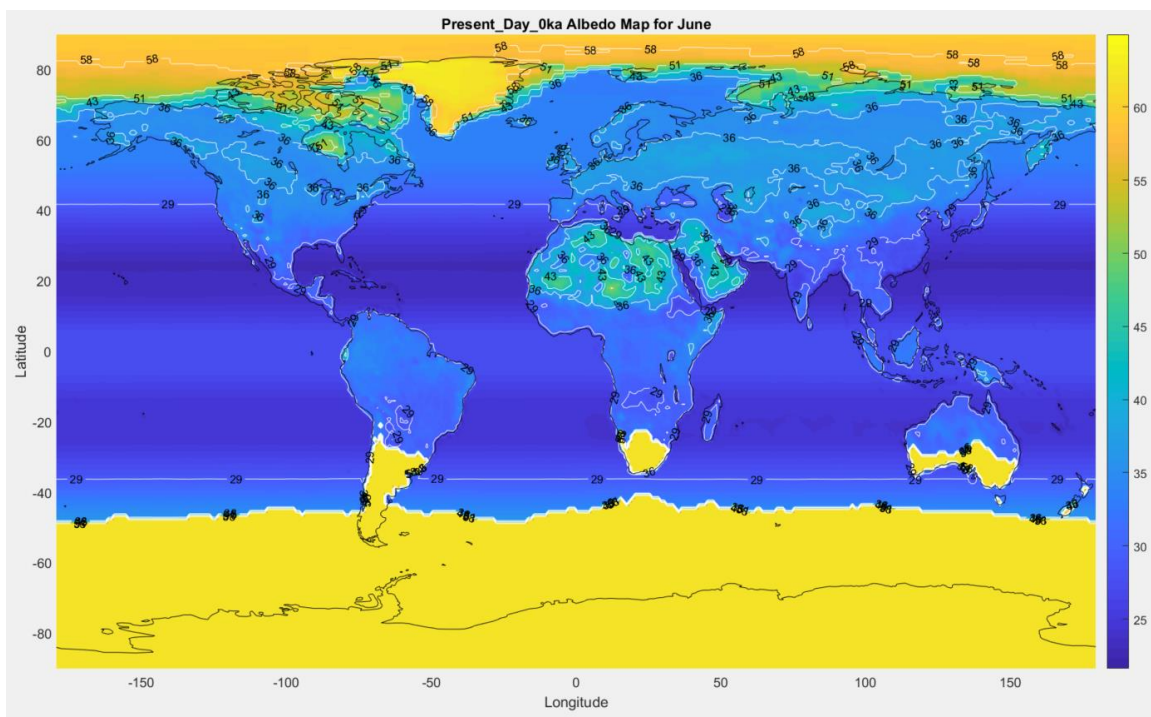
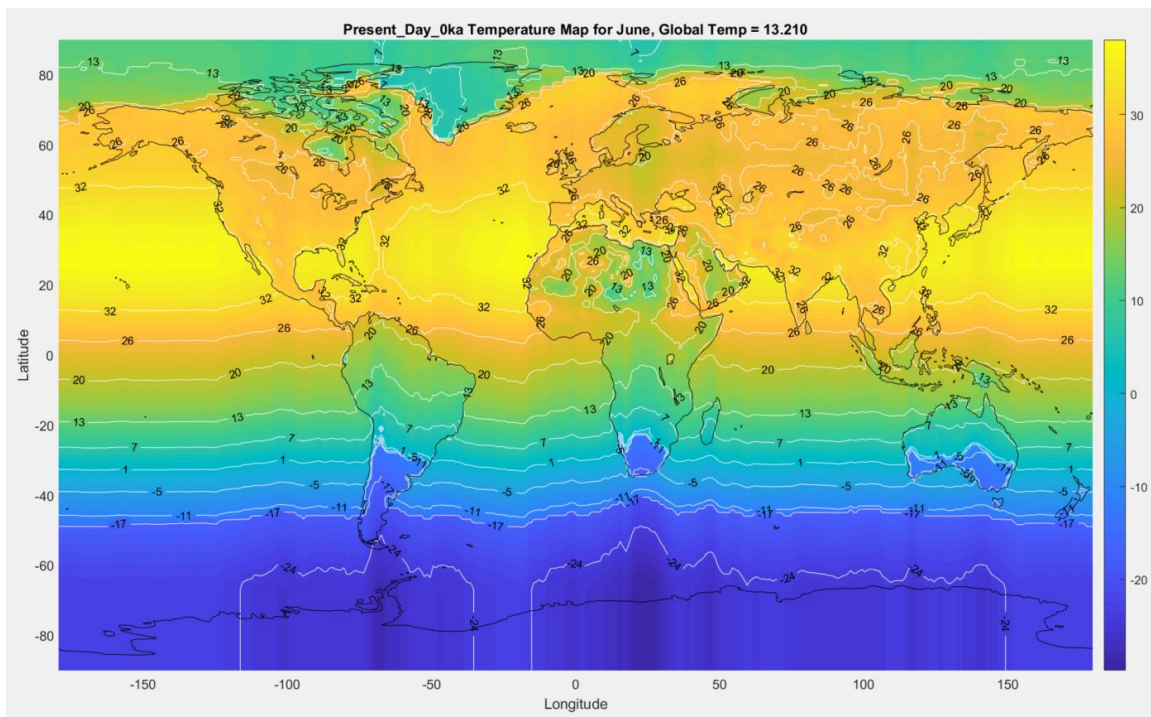


May:



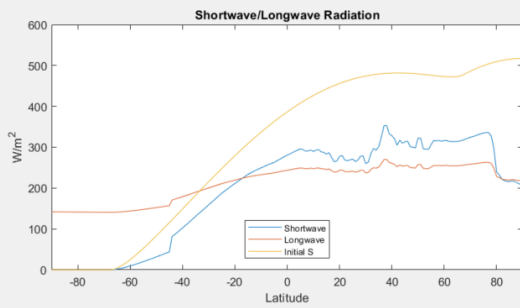
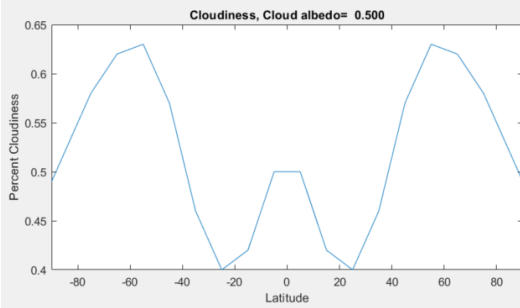
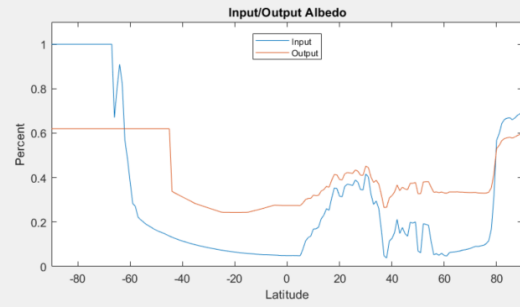
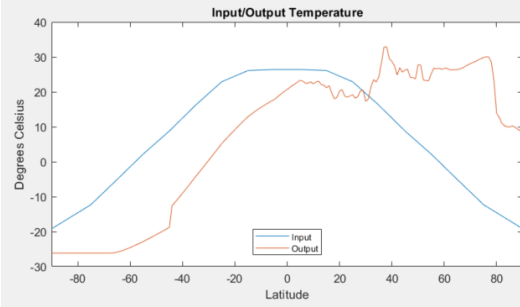


June:

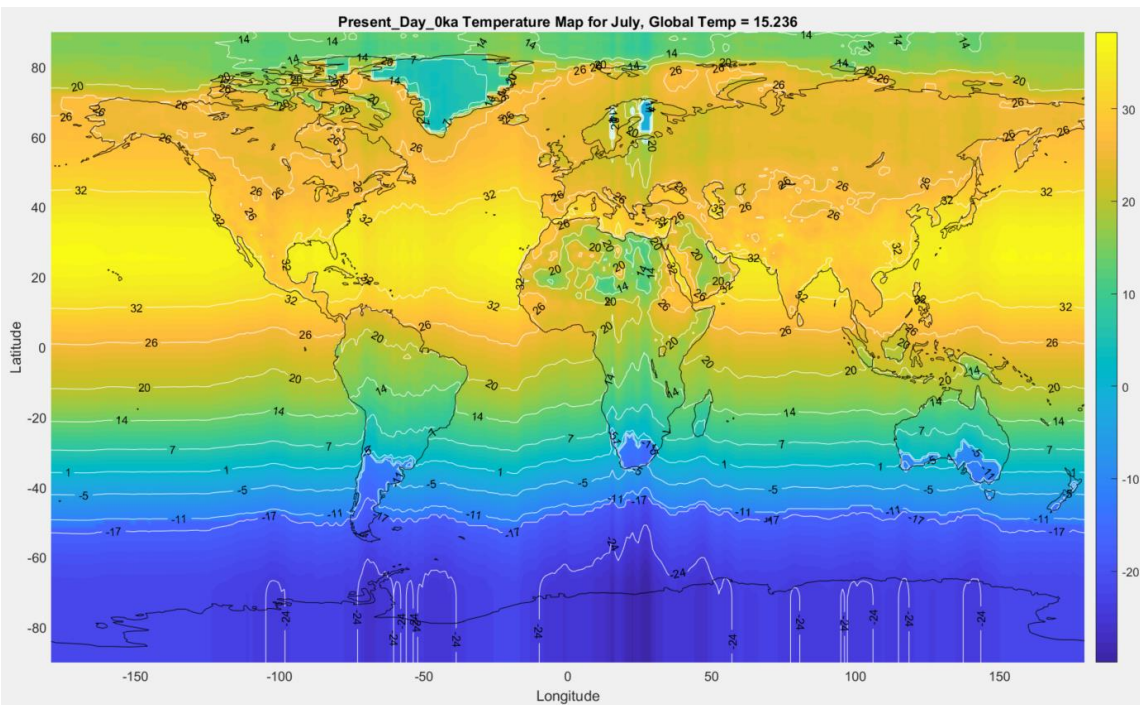


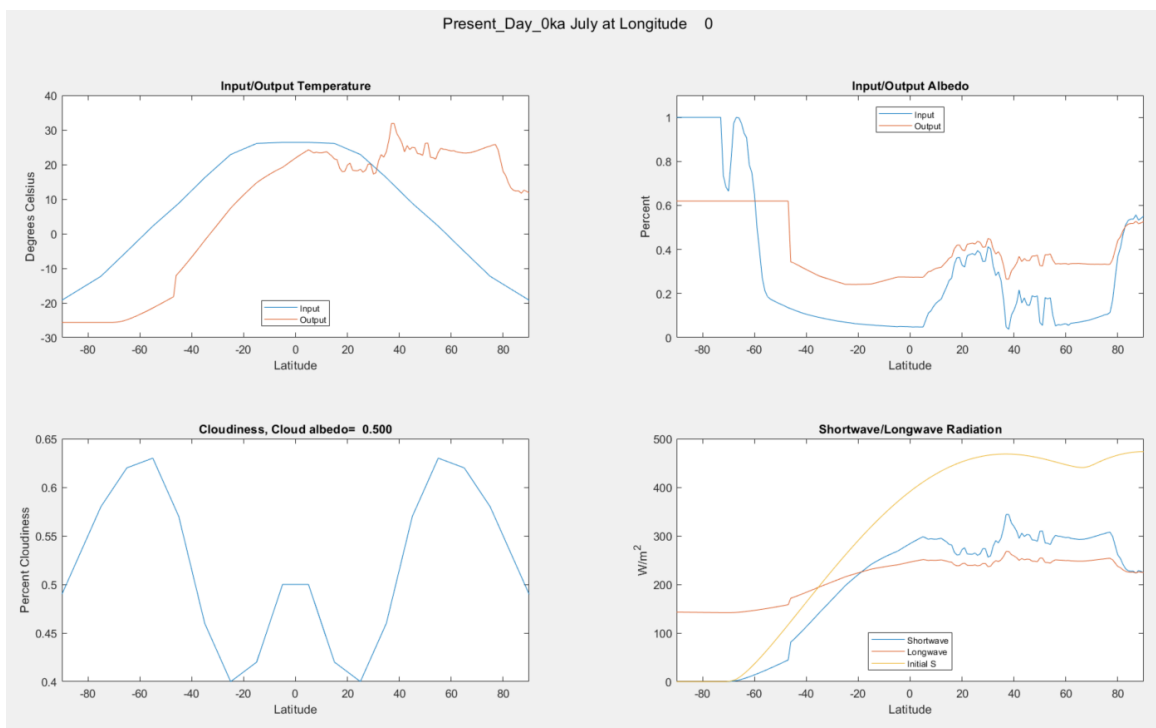
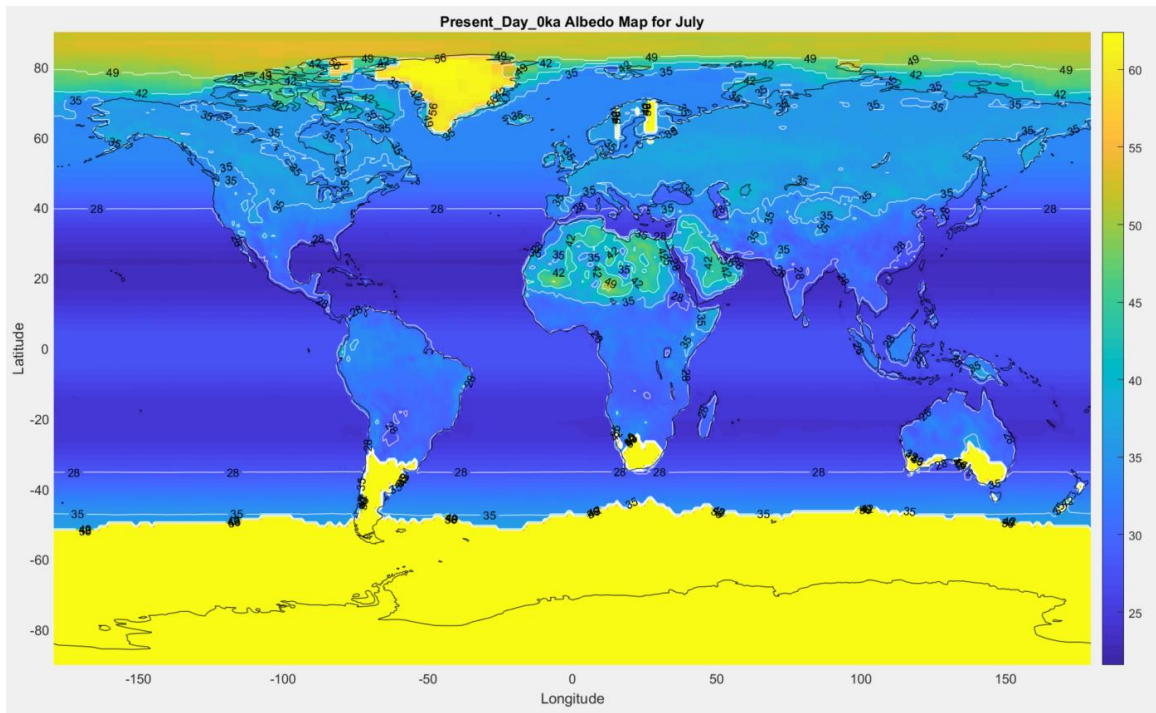


Present\_Day\_0ka June at Longitude 0



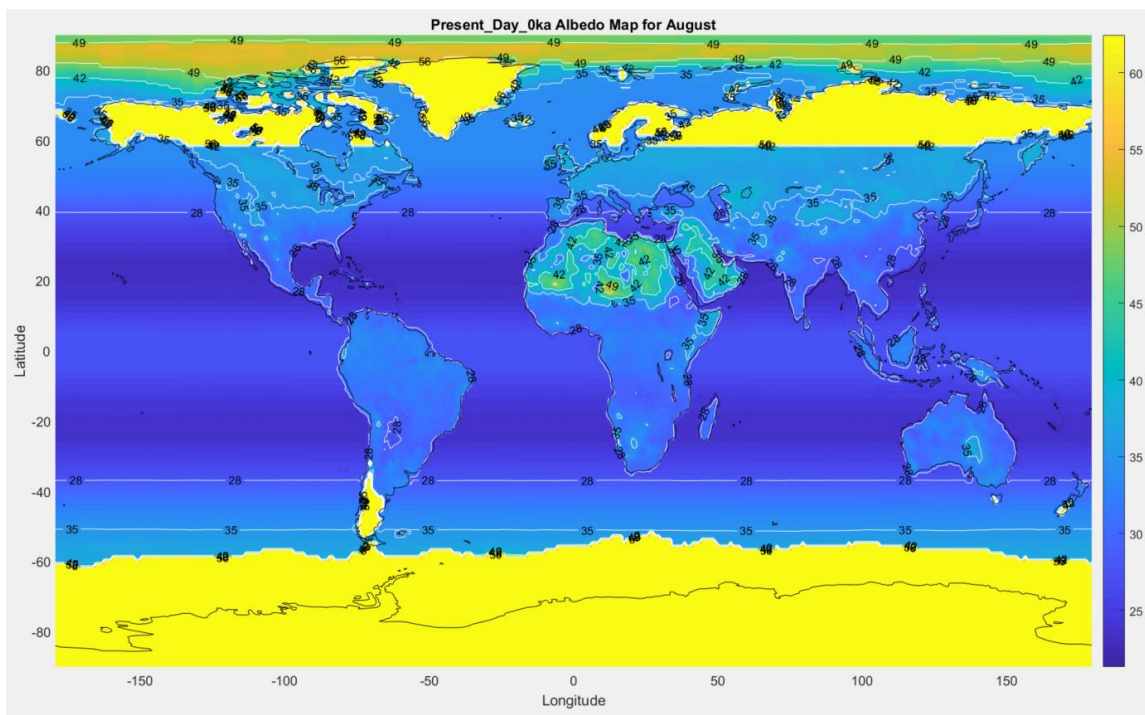
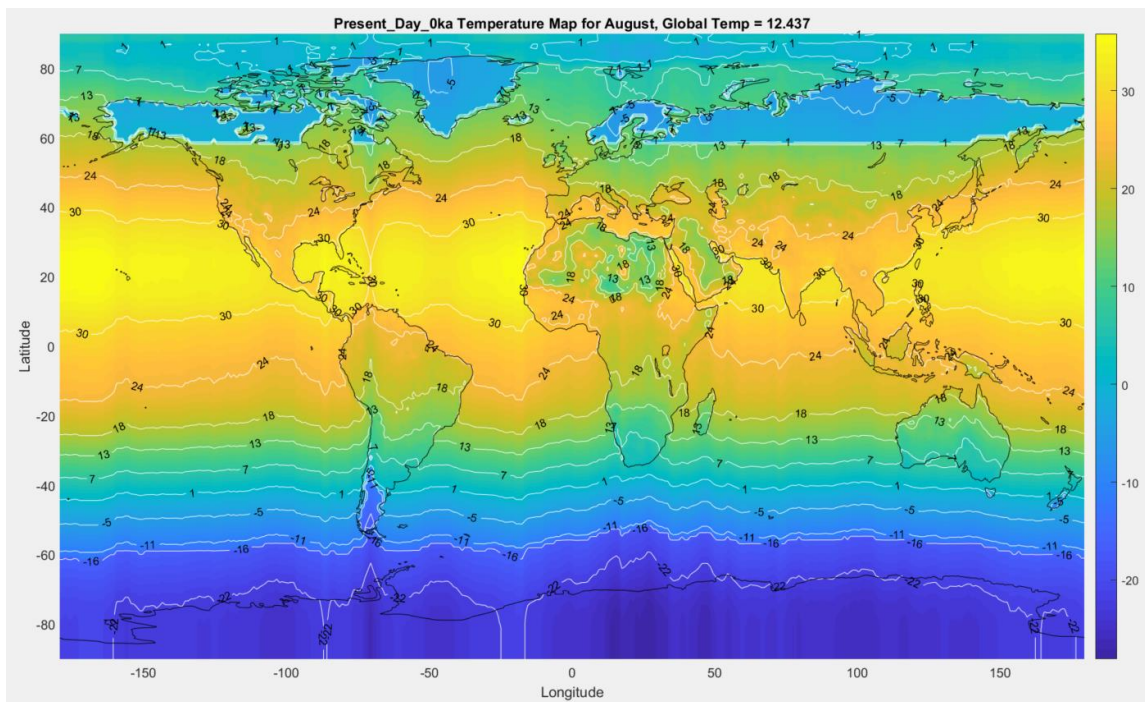
July:



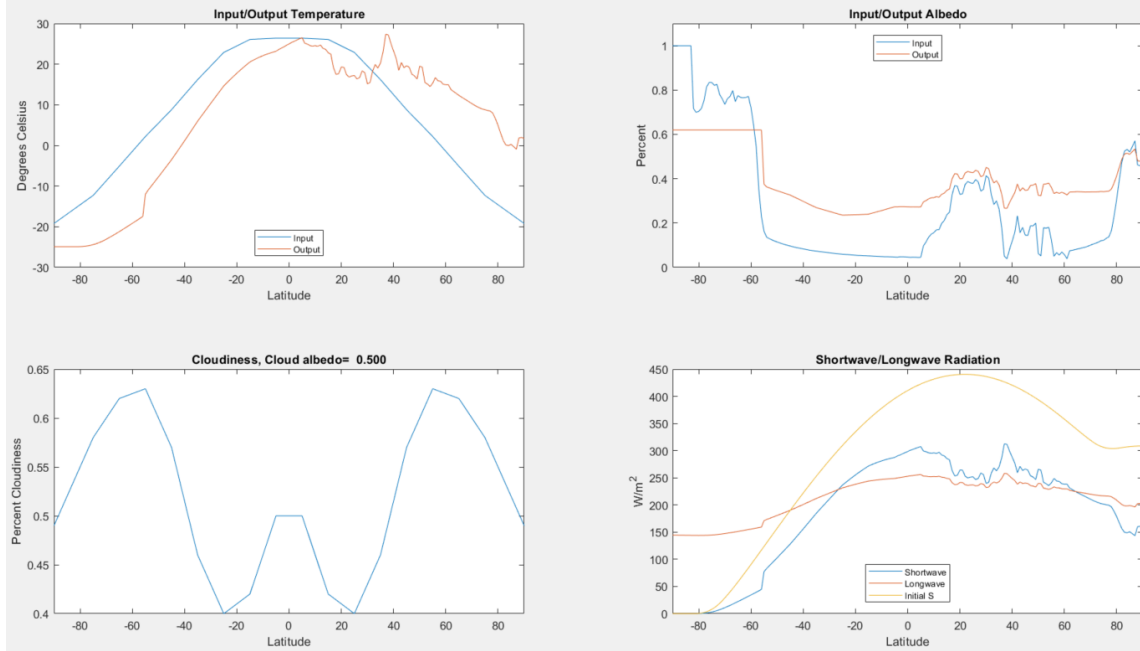


August:

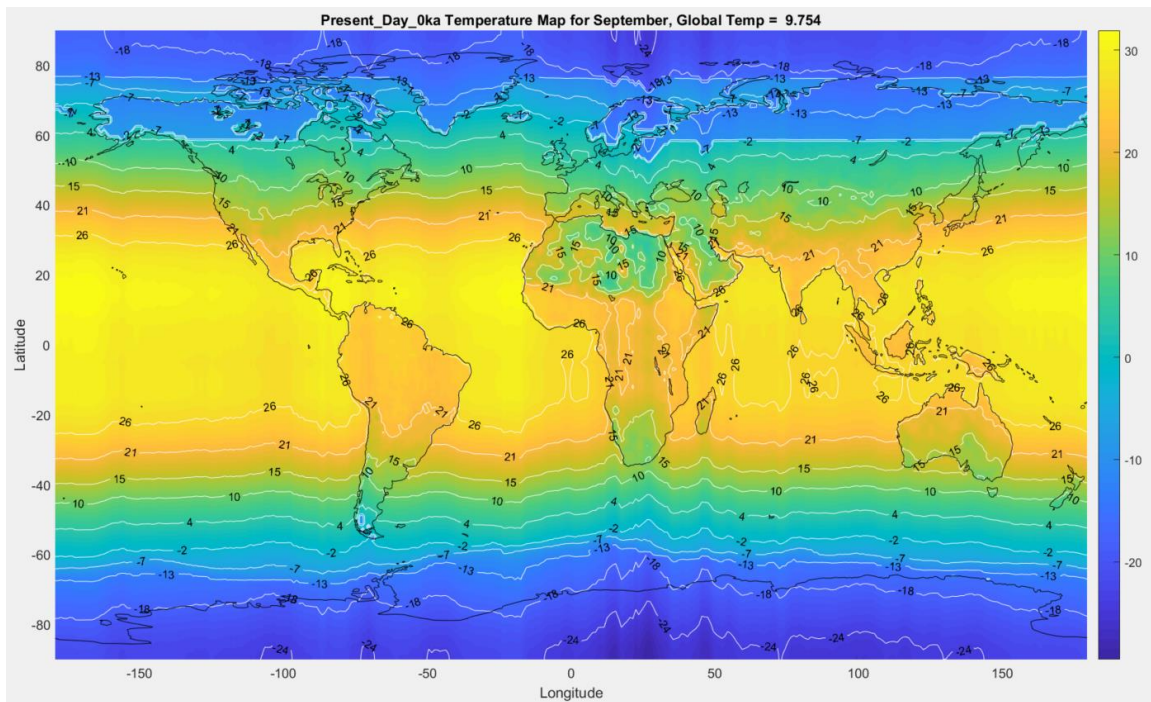


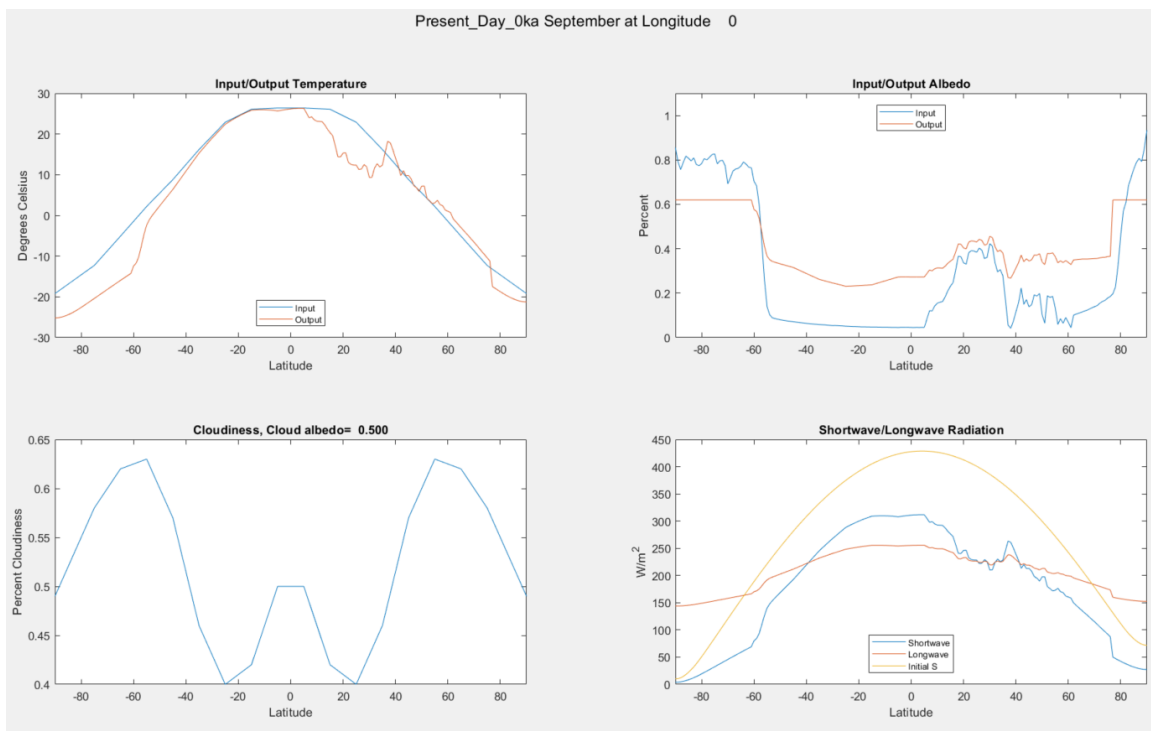
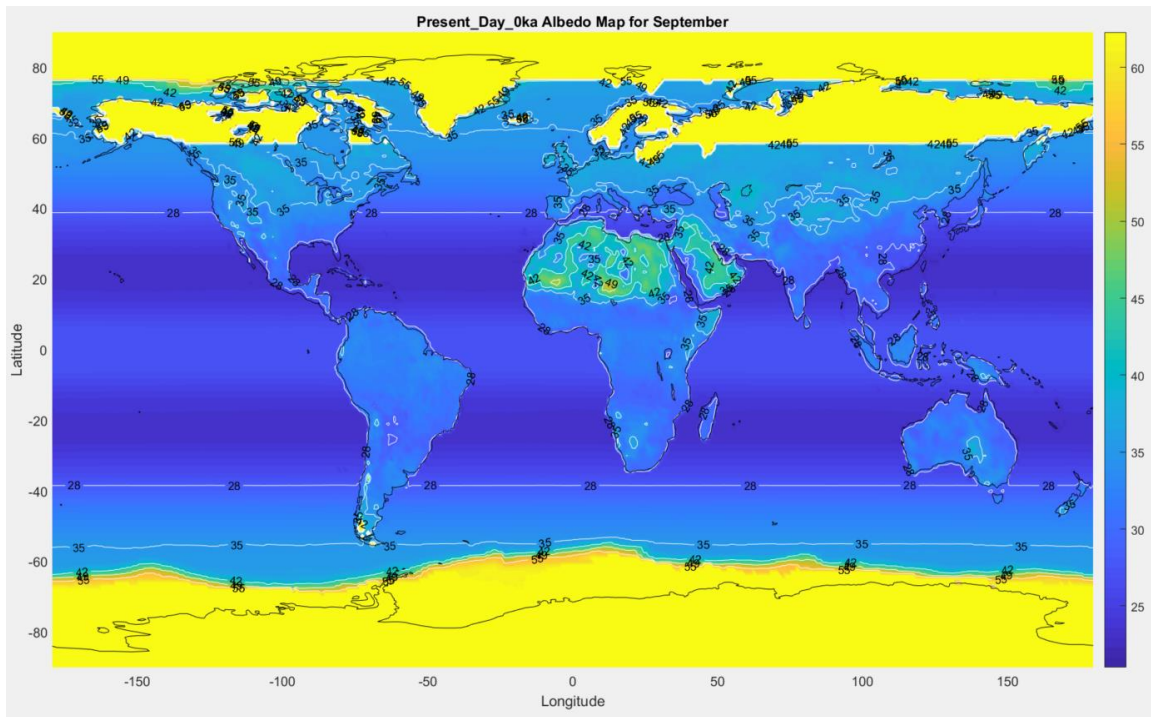


Present\_Day\_0ka August at Longitude 0



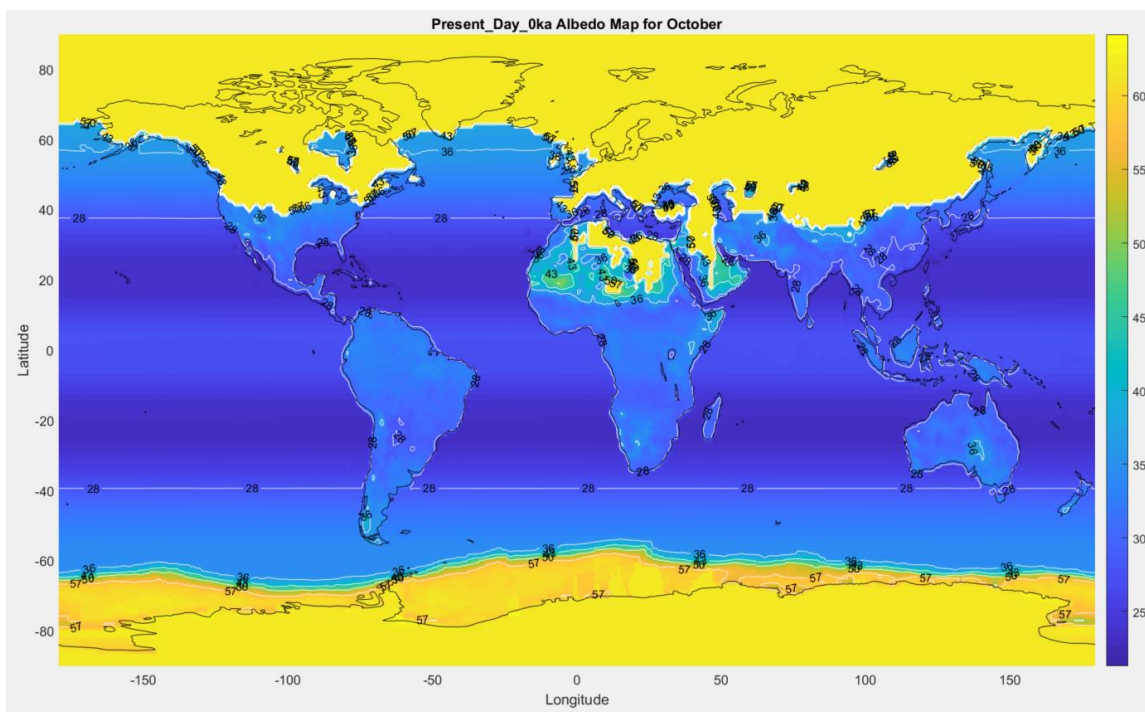
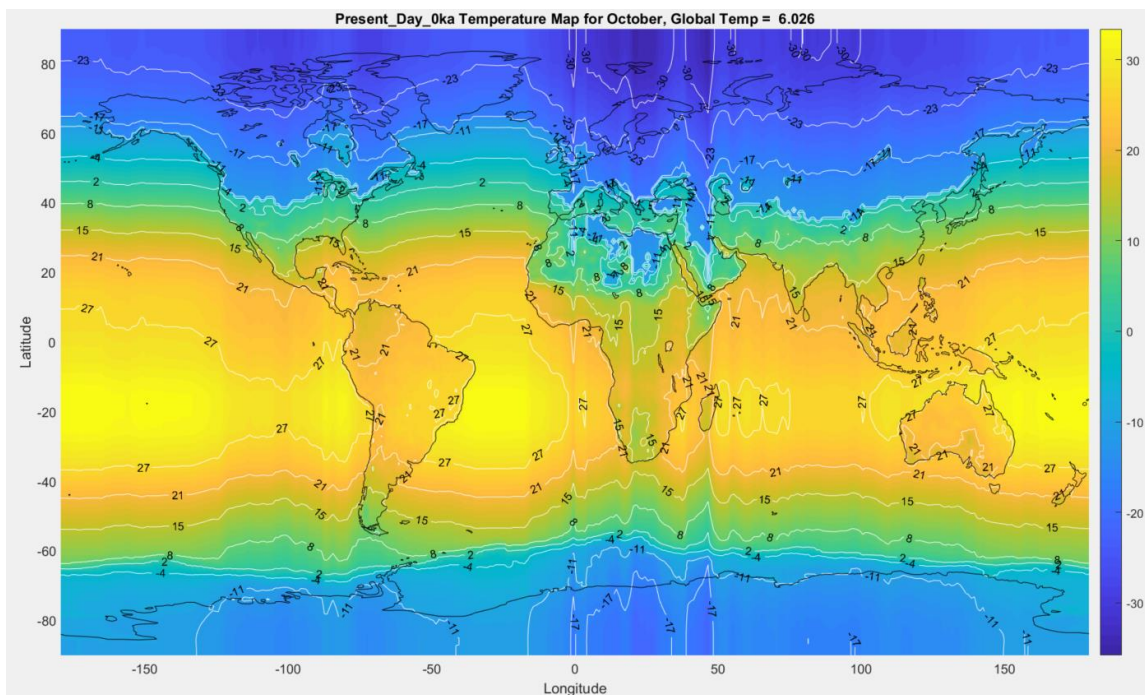
September:

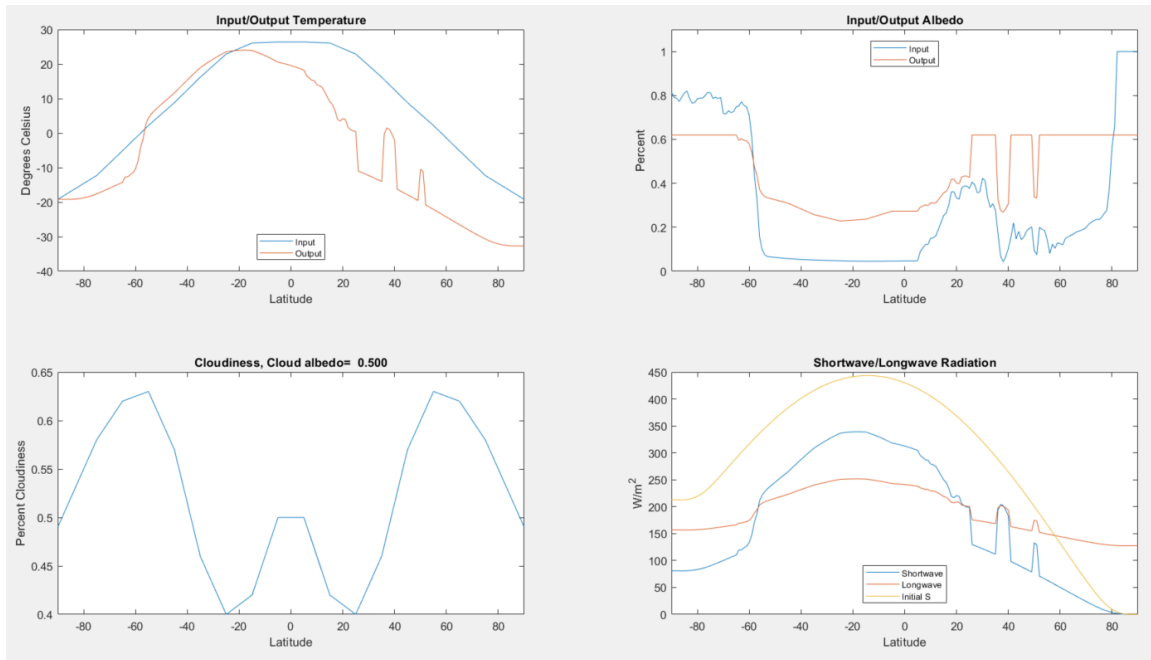




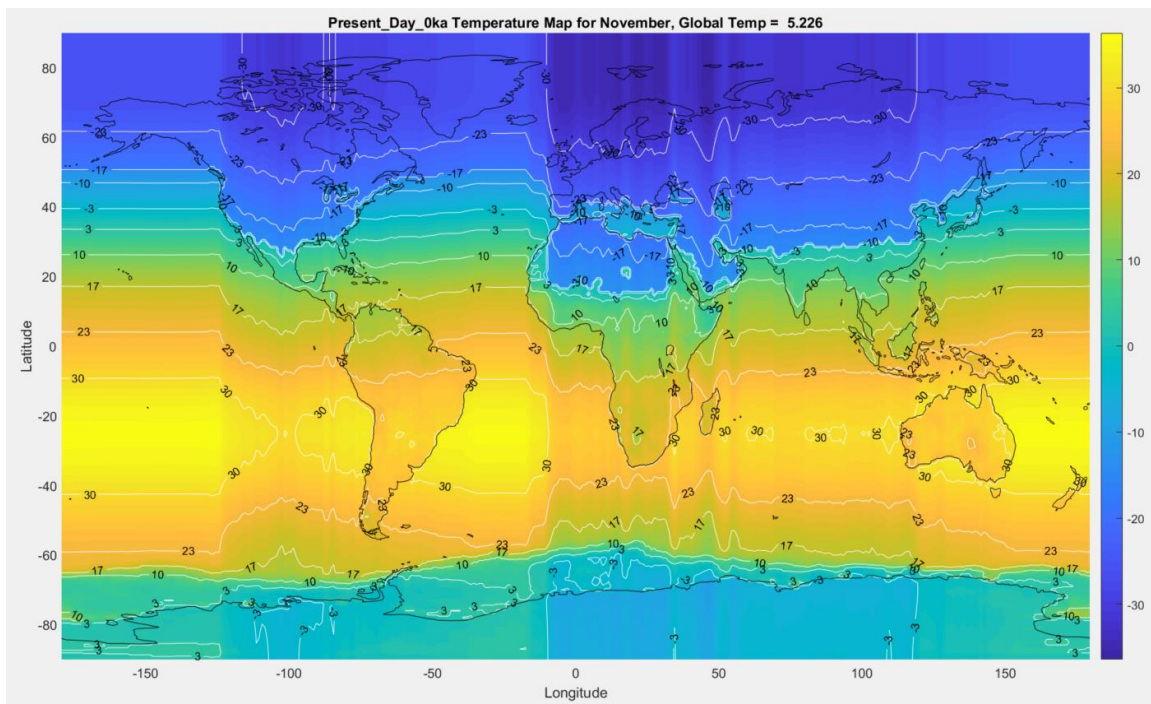
October:



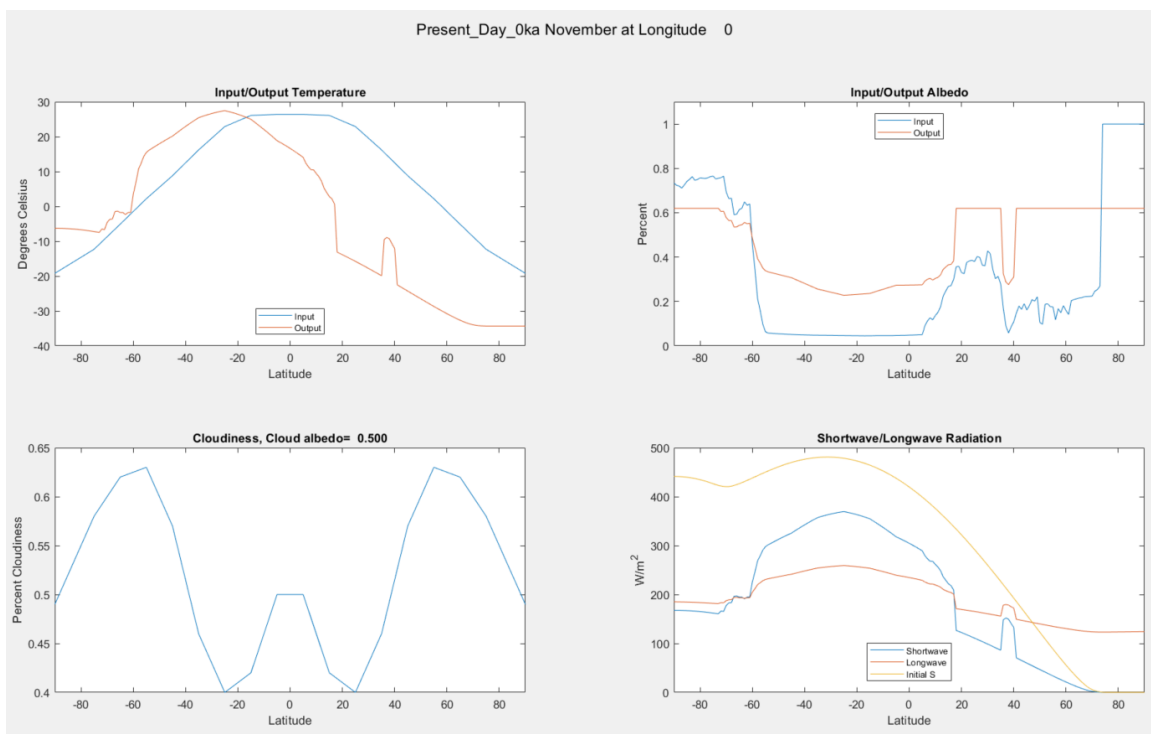
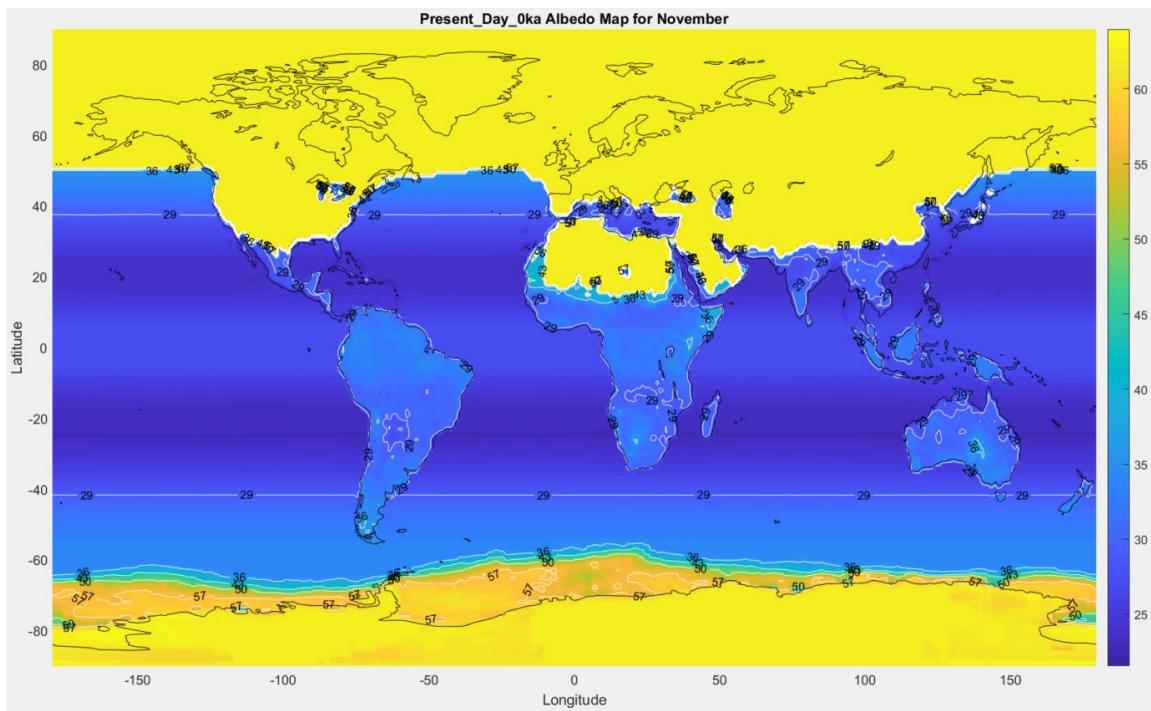




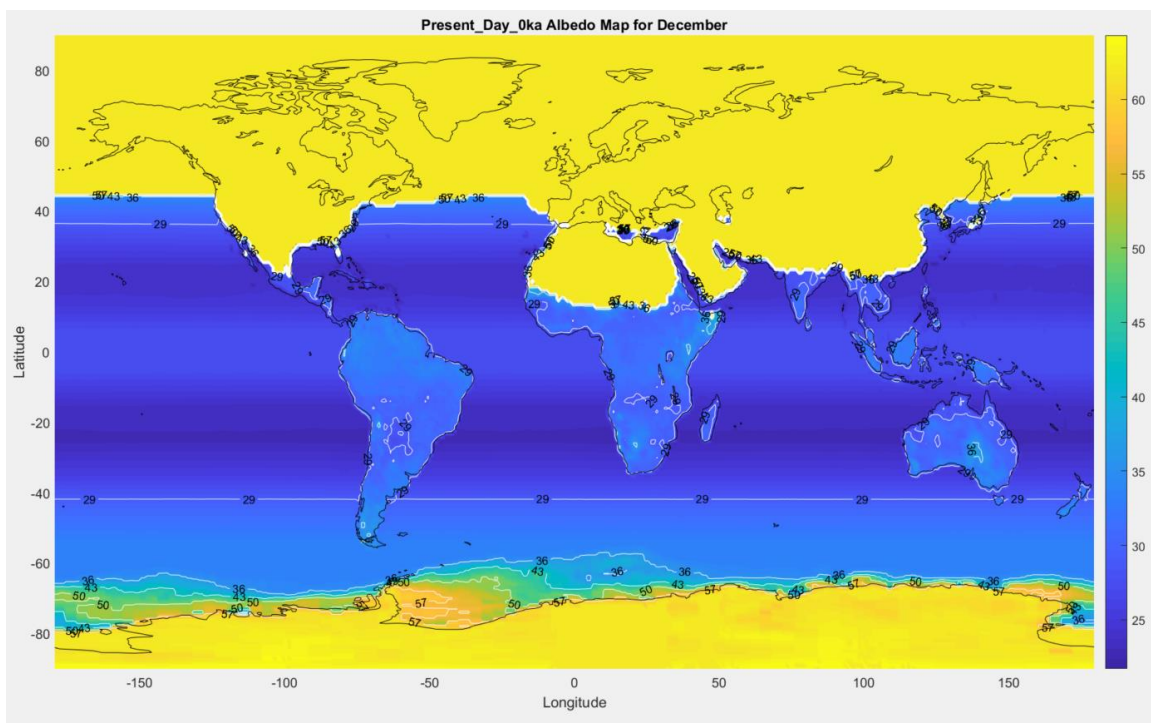
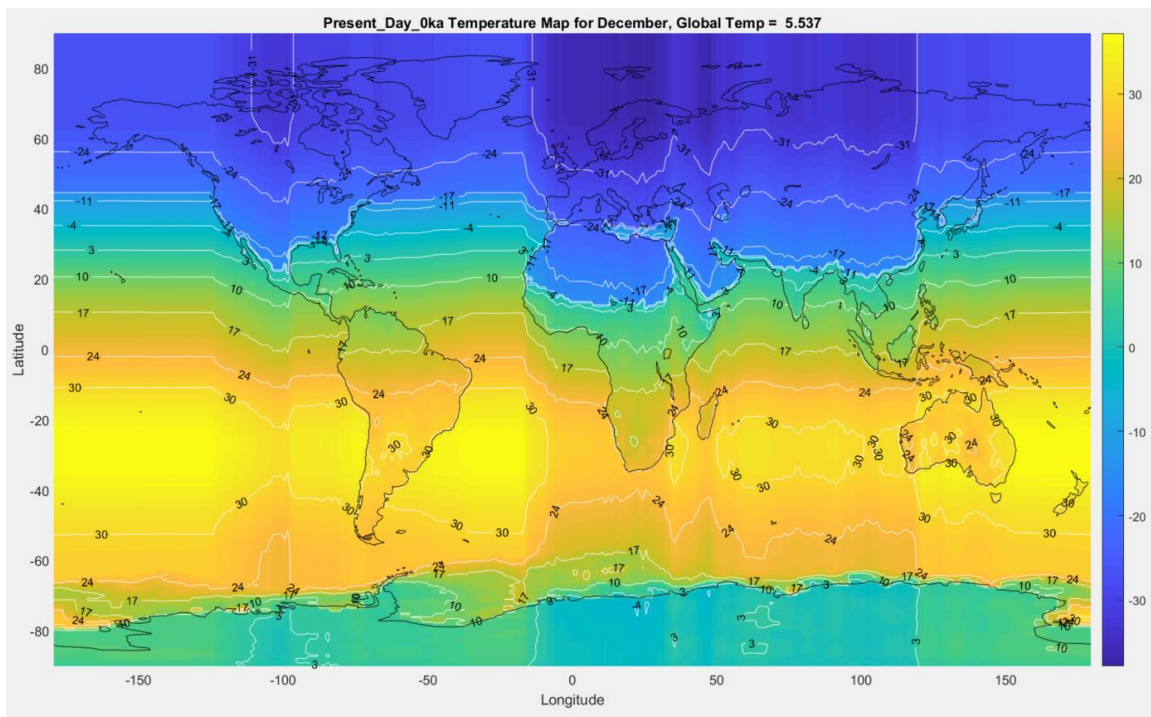
November:

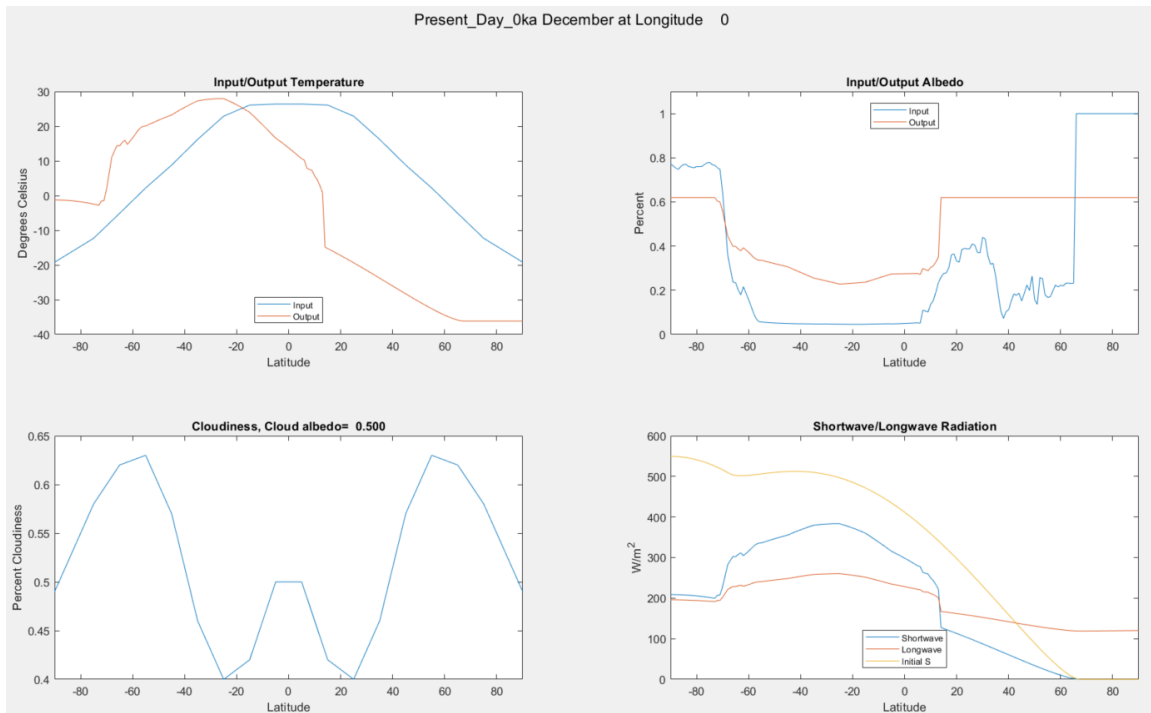






December:





GUI Inputs:

TwoD\_V5
— □ ×

## Earth Energy Balance Model

Solar Constant

Solar Fraction

A

B

C

TCrit Land

TCrit Ocean

Albedo of Ice

Cloud Albedo

Time

Beta (Obliquity)

e (Eccentricity)

Longitude (- for West, + for East)

Chosen Month

## APPENDIX C – EBM SCRIPT VERSIONS

Appendix C is designed to explain the contents of the accompanying zipped folder containing all versions of the EBM, and the necessary tools to run them.

Within the super-folder: “All Energy Balance Models” each subsequent EBM is divided into its own subfolder that contains the .m file of the script itself, which shares its name with the folder; the .fig file which is necessary in order to open and run the associated GUI; functions that are called within the main .m file, such as nadeau\_v3.m, that must simply remain inside the folder or path of the EBM; and finally any required .mat files containing the workspace variables used within the scripts. They are loaded and called within the script where required and do not need to be opened or augmented when attempting to run the EBM. The image provided below contains all nine EBM’s contained within the .zip file, as well as an example from TwoD\_CERES of the files contained within.

