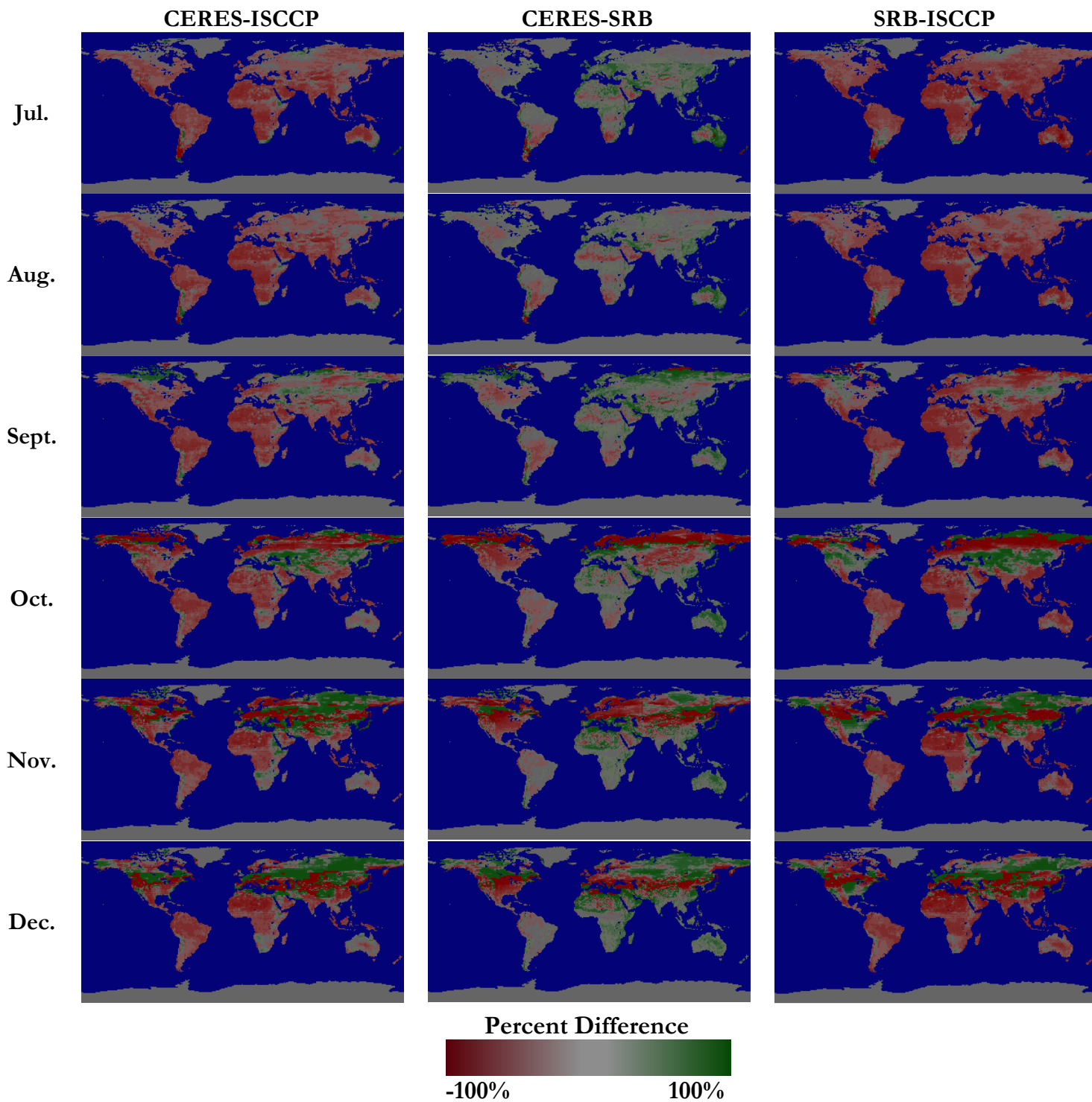
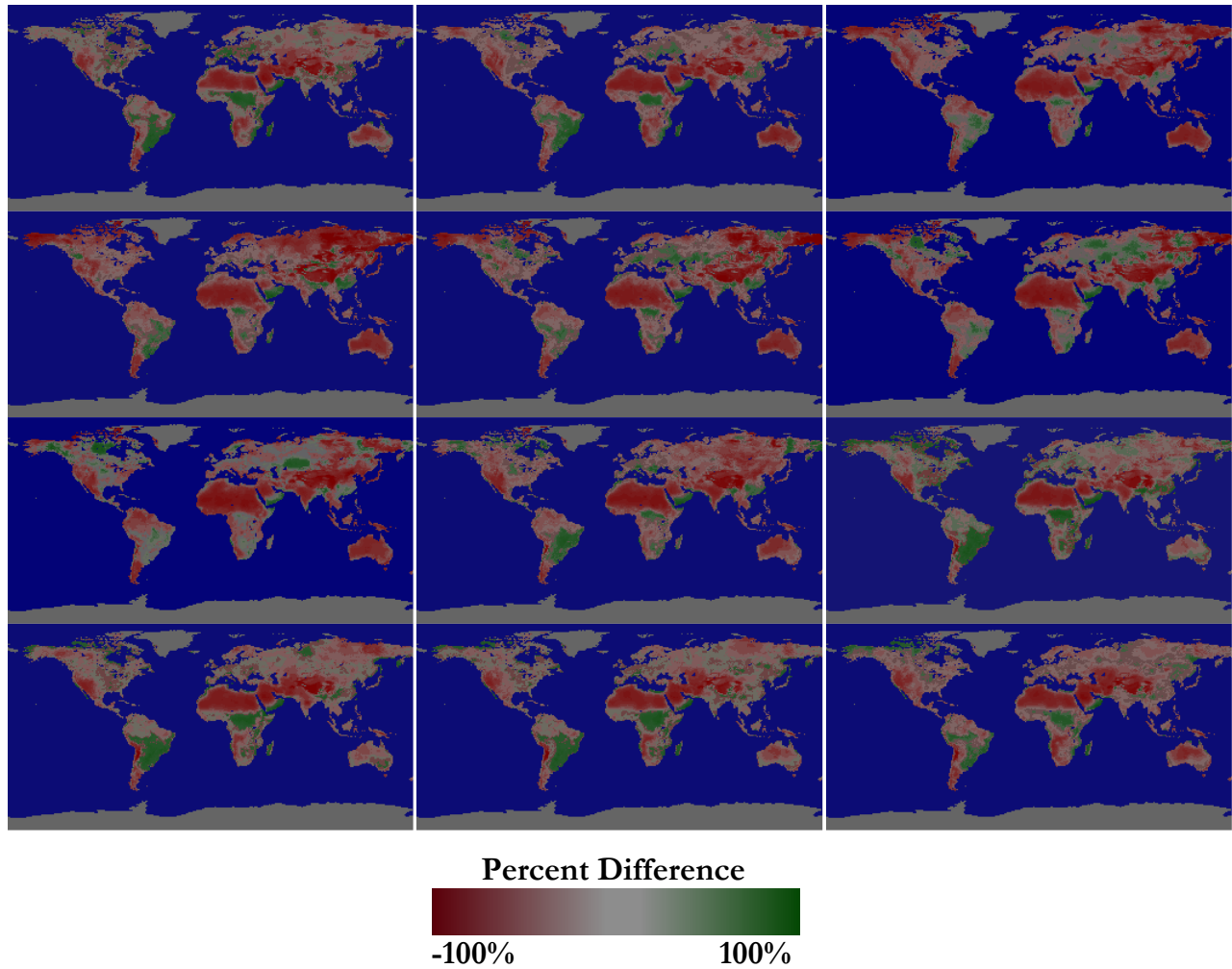


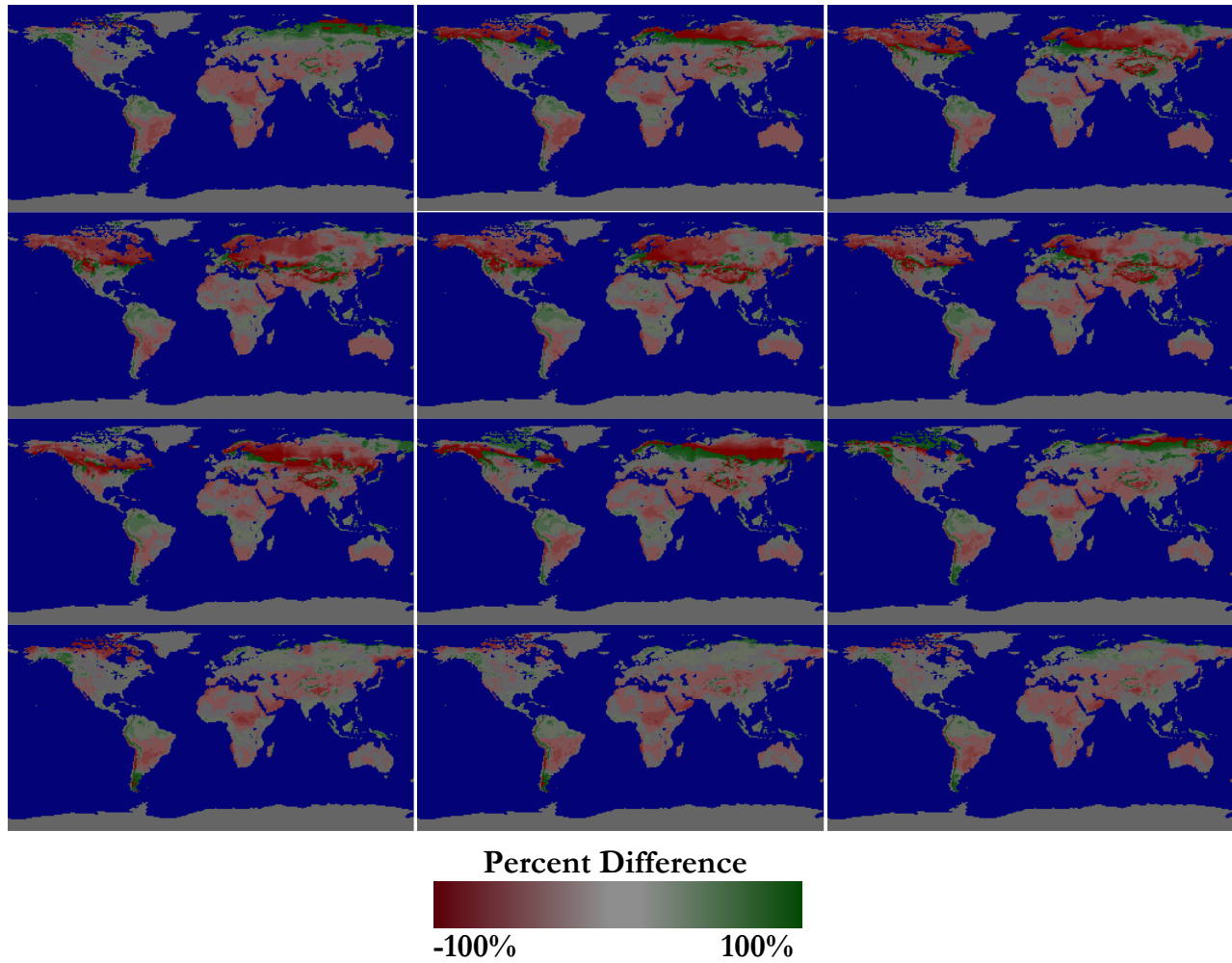
Supplementary Figure 1a Percent difference between all combinations of net radiation products (CERES-ISCCP, CERES-SRB, SRB-ISCCP) at the monthly time step.



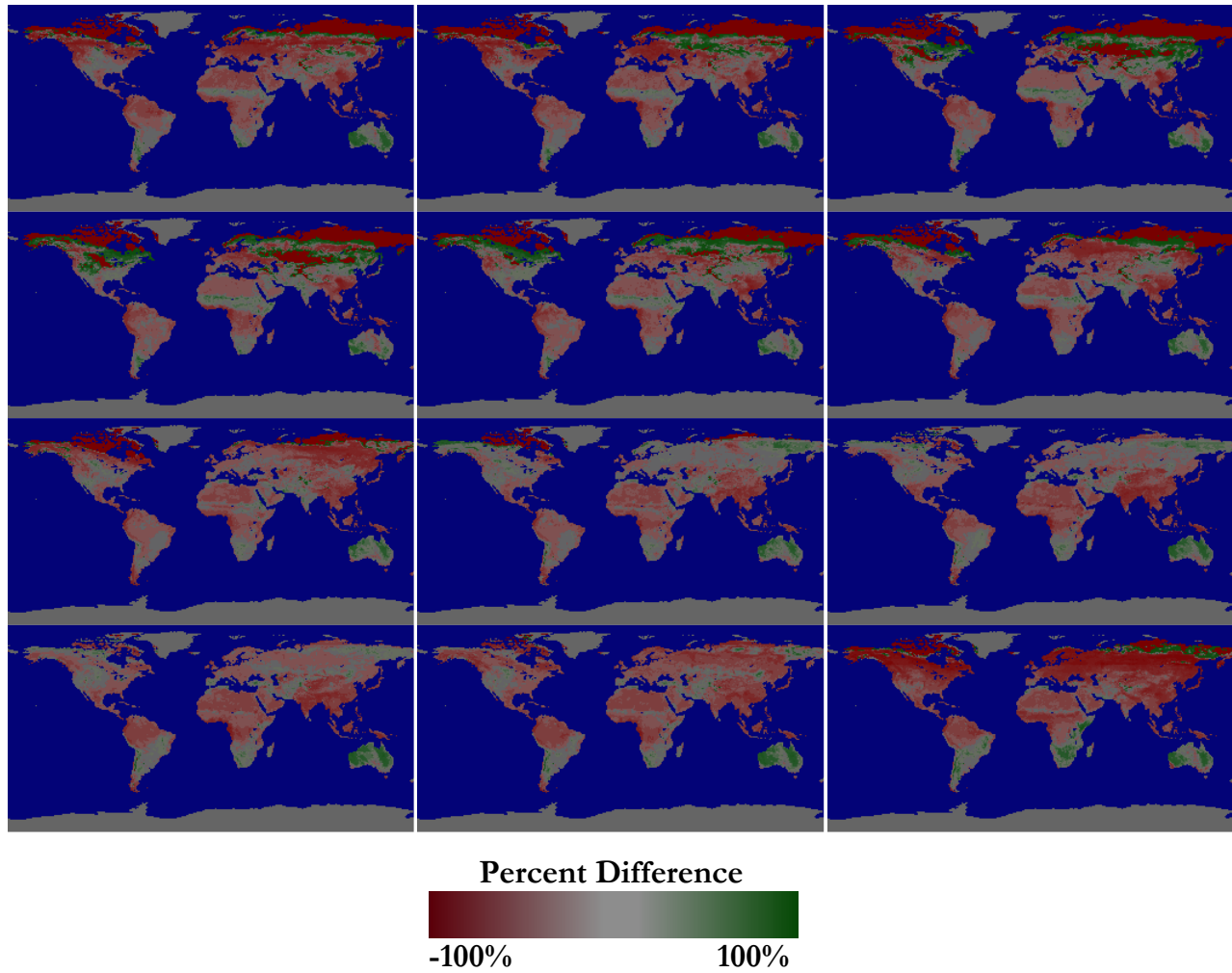
Supplementary Figure 1b Percent difference between all combinations of net radiation products (CERES-ISCCP, CERES-SRB, SRB-ISCCP) at the monthly time step.



Supplementary Figure 2 Percent difference between CRU relative humidity and MERRA relative humidity at the monthly time-step, beginning with January in the top left and progressing left to right, top to bottom



Supplementary Figure 3 Percent difference between CRU temperature and MERRA temperature at the monthly time-step, beginning with January in the top left and progressing left to right, top to bottom



Supplementary Figure 4 Percent difference between GIMMS vegetation index and MODIS vegetation index measures at the monthly time-step, beginning with January in the top left and progressing left to right, top to bottom