

Figure 1: Monthly averages of the MODIS BRDF parameters, f_{iso} , f_{vol} and f_{geo} for each land cover type derived by AVNIR-2. The percentage means the threshold of the most frequent AVNIR-2 land cover types (see text).

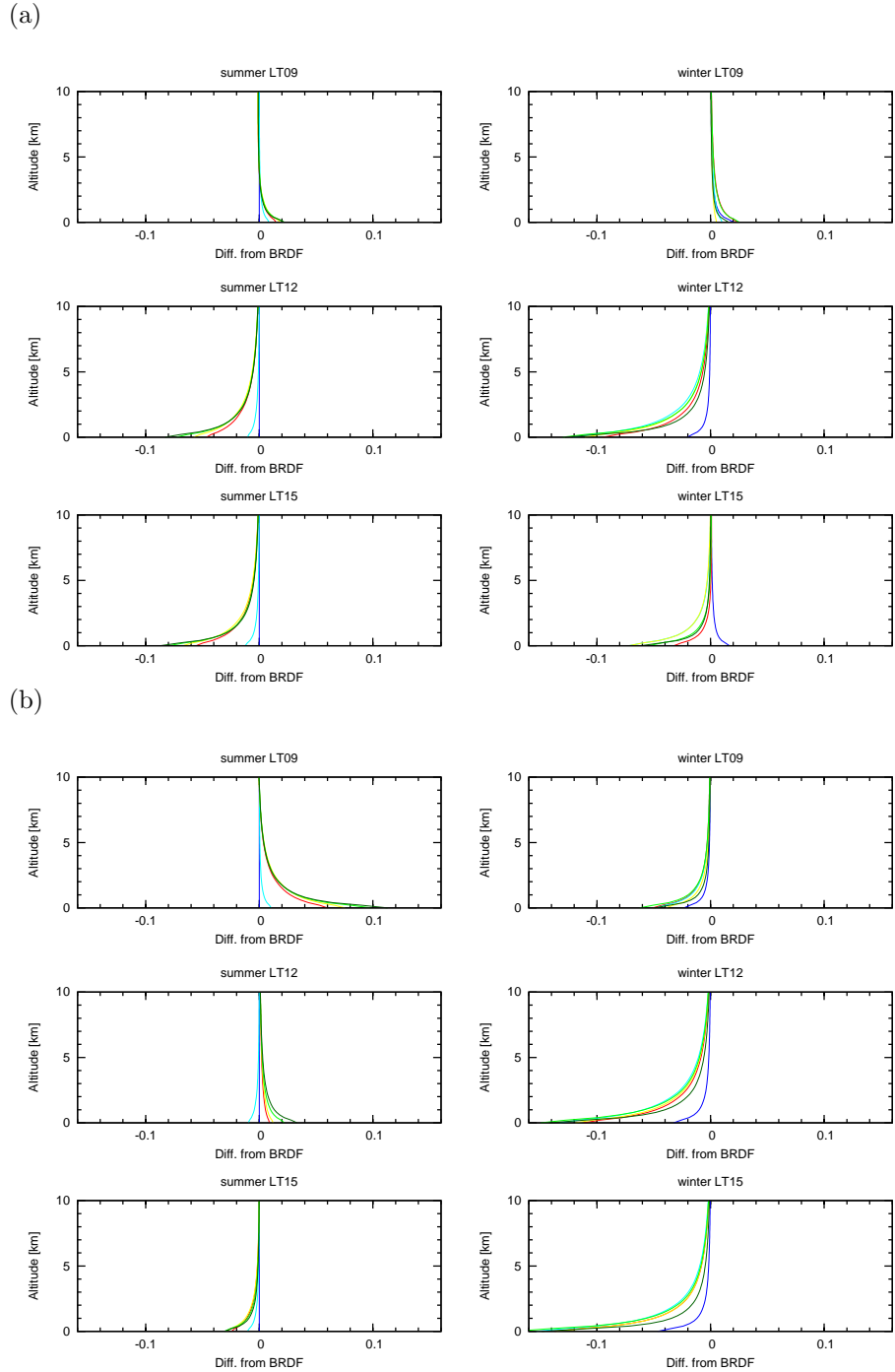


Figure 2: Relative difference of tropospheric NO_2 BAMF for various land cover types from the tropospheric NO_2 BAMF obtained using full BRDF treatment compared to results using (a) BSA and (b) WSA surface. Each of the cases includes a panel at local time (LT) 09, LT12 and LT15 for summer (left) and winter (right). The colors indicate land cover types: water (blue), urban (red), rice paddy (light blue), crop (yellow), deciduous forest (light green) and evergreen forest (green). An AOD of 0.2 is assumed.