1 Supplementary figures

(a) AMSR-E

(b) WindSat

(c) AMSR-2
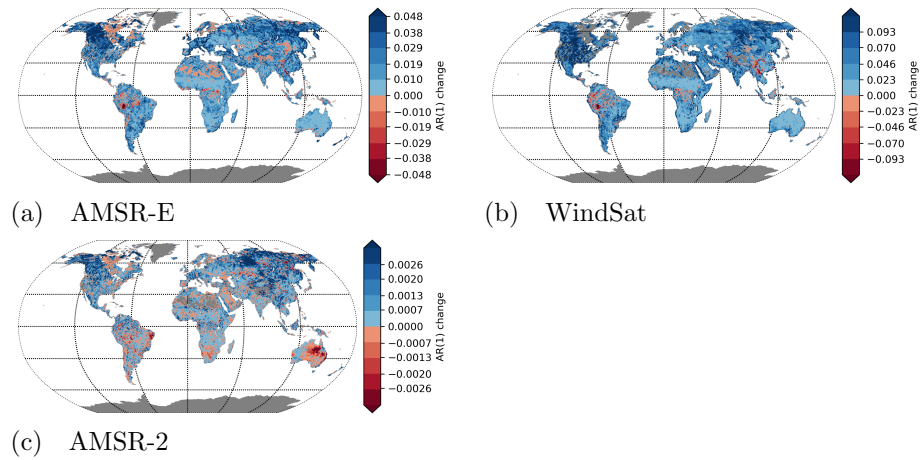
Figure 1. First-order auto-correlation change due to merging of C-band data for each sensor

(a) AMSR-E

(b) WindSat

(c) AMSR2

(d) TMI
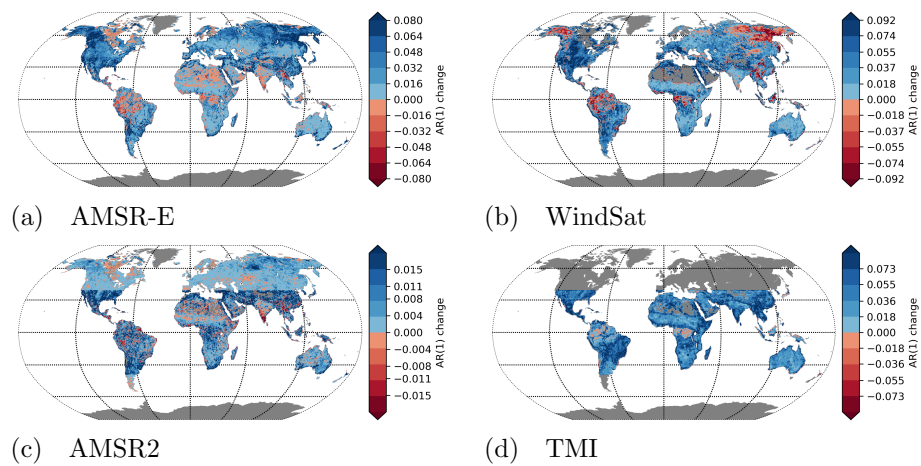
Figure 2. First-order auto-correlation change due to merging of X-band data for each sensor
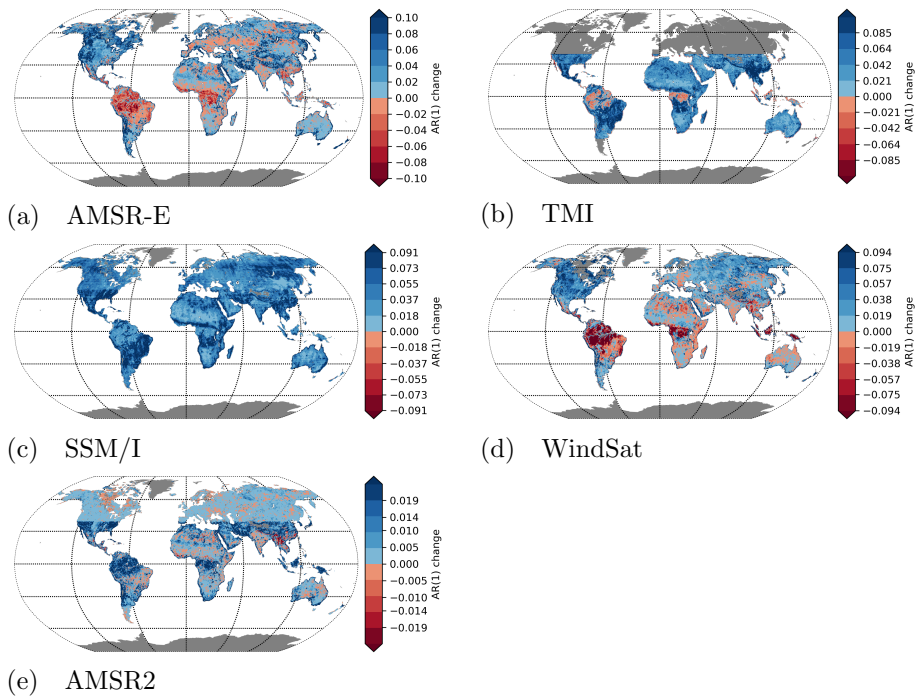
Figure 3. First-order auto-correlation change due to merging of Ku-band data for each sensor
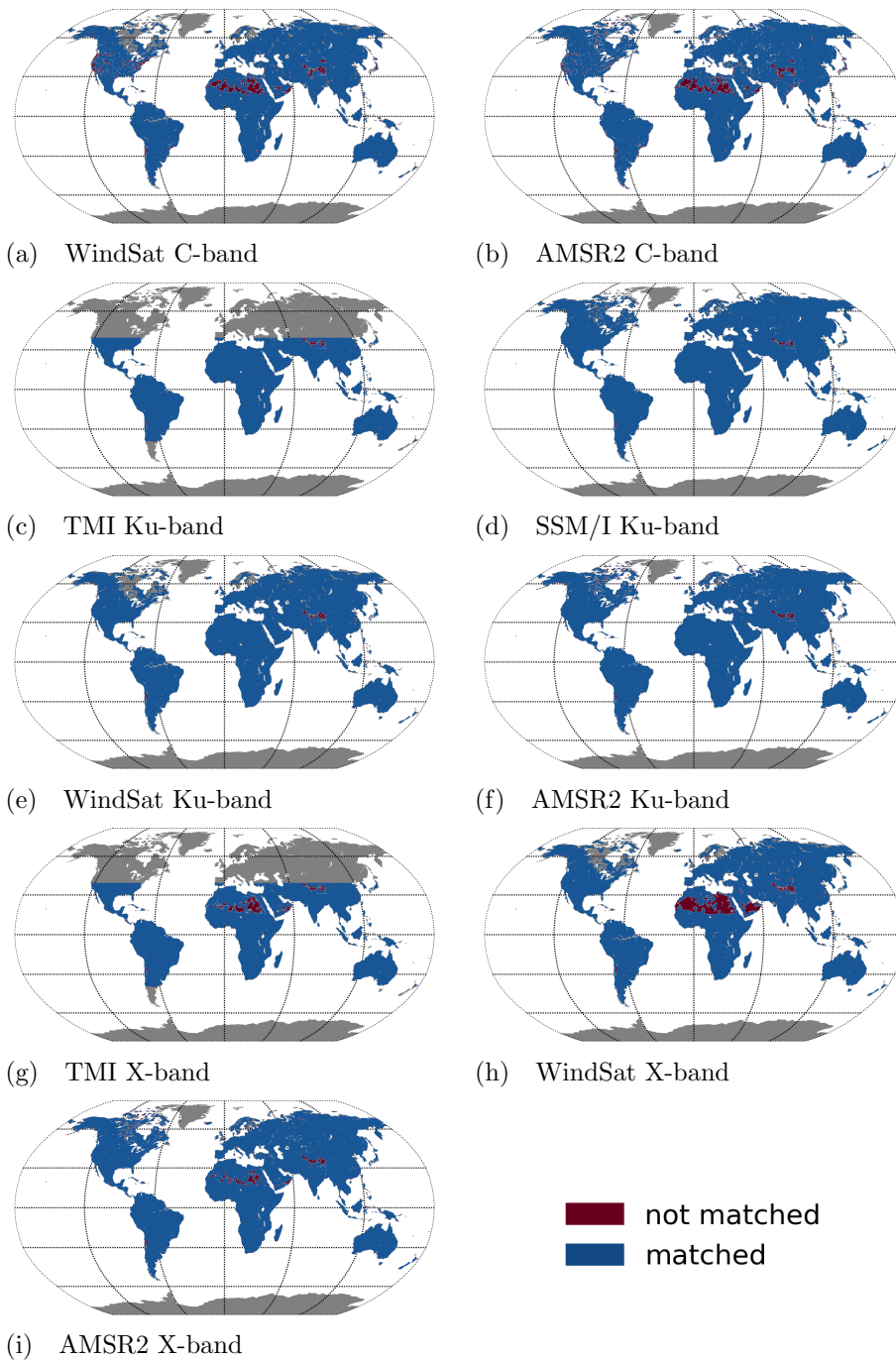
Figure 4. Data loss due to failed CDF matching for each band/sensor combination