Figure S1 Same as Figure 2 but for $^{137}$Cs.

Figure S2 The distribution of the ratio of $^{137}$Cs wet deposition to total $^{137}$Cs deposition. Colors represent members and lines are the corresponding kernel density estimates of counts. Counts are on a logarithmic scale.
Figure S3 Same as Figure 2 but for the low and moderate concentrations of $^{131}$I.
Figure S4 Same as Figure 2 but for the low and moderate concentrations of $^{137}$Cs.
Figure S5 Same as Figure 3 but for all seasons.

Figure S6 Same as the panel at the top in Figure 2 but for all intensities of $^{137}$Cs depositions.
Figure S7 The seasonal median of boundary layer height (m) estimated based on CFSv2 (top row) and FNL (bottom row) inputs.

S8 Same as Figure 8-A but for $^{137}$Cs column densities above respective 66th percentile.
S9 Same as Figure 9 but for FNL-WRF.

S10 Same as Figure 10 but for $^{137}$Cs column densities.
Figure 11 Same as Figure 10 but for $^{137}$Cs deposition

S12 Same as Figure 10 but for $^{131}$I depositions.