Supplementary Material

Figure S1. Ensemble forecast of the IVT in an event affecting Western Iberia on January 4 2016 for lead time -5 days.
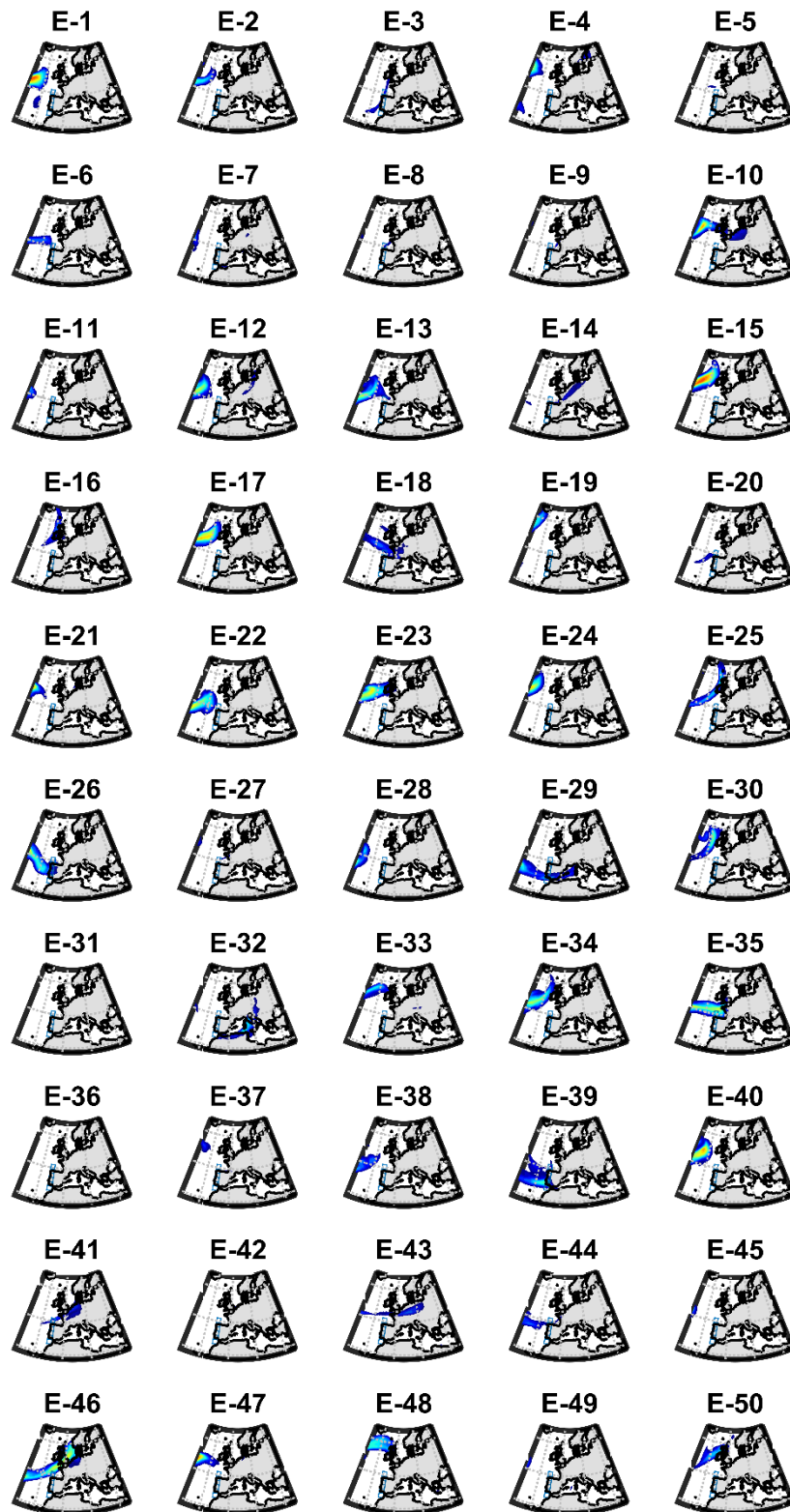
Figure S2. Ensemble forecast of the IVT in an event affecting Western Iberia on January 4 2016 for lead time -12 days.

$$POD = HITS / (HITS+MISSES)$$

$$FAR = FALSE / (HITS+FALSE)$$

$$SR = HITS / (HITS+FALSE)$$

$$BIAS = (HITS+FALSE) / (HITS+MISSES)$$