

Supplementary materials

June 3, 2020

1 Evolution sequences of some selected AR tracks

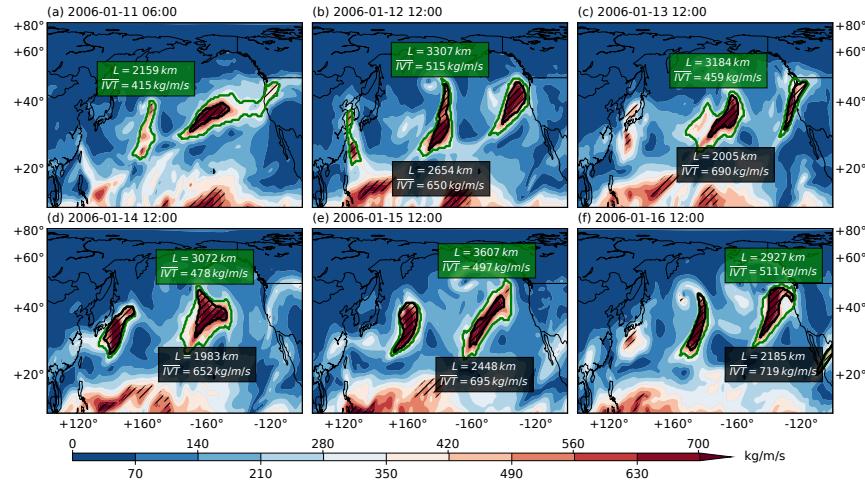


Figure 1: IVT distribution snapshots following an selected AR track from 2006-01-11 06 UTC in (a) to 2006-01-16 12 UTC in (f). ARs found by the THR-t4-s6 method are drawn in green contours, and those by the IVT250ano method in black contours. Hatching indicates areas where the IVT anomalies are above the 250 kg/m/s threshold. Length (in km) and averaged IVT (in kg/m/s) of the selected AR are labelled in a green box for the THR method, and a black box for the IVT250ano method.

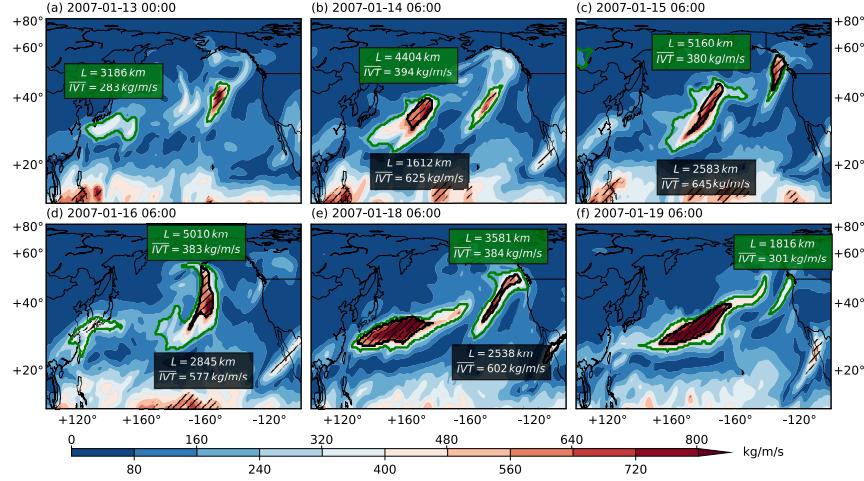


Figure 2: Similar as Fig.1 but for an AR track during 2007-Jan.

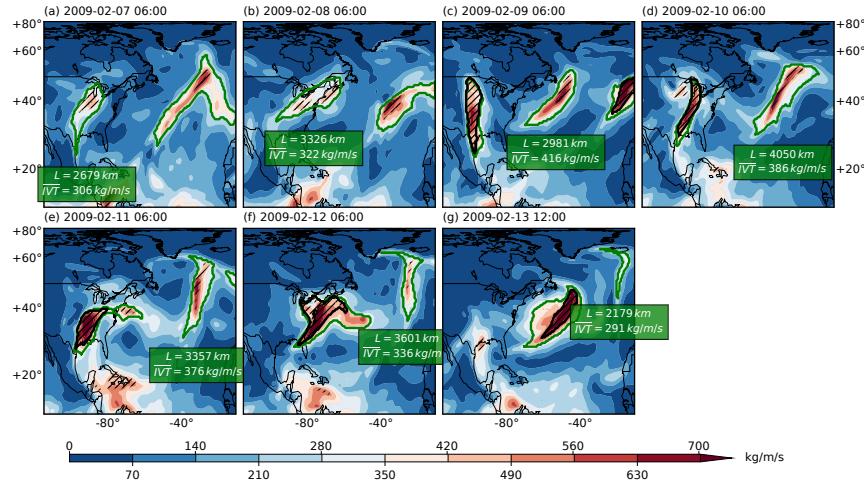


Figure 3: Similar as Fig.1 but for an AR track during 2009-Feb over North Atlantic.