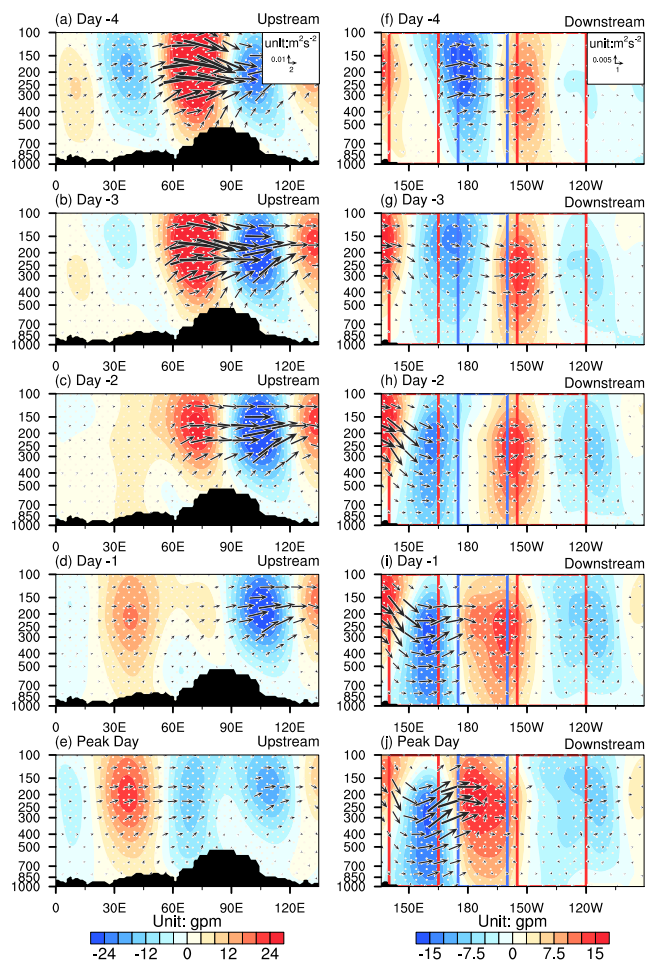


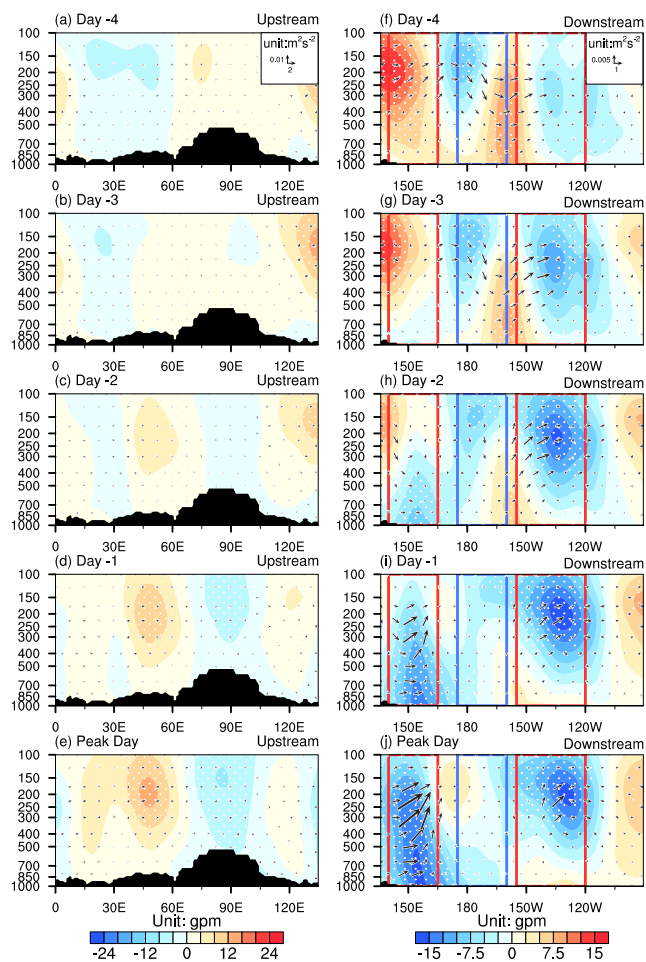
Supplementary material

Supplementary Table S1 Same as Table 1, but for the 225 negative PJ events

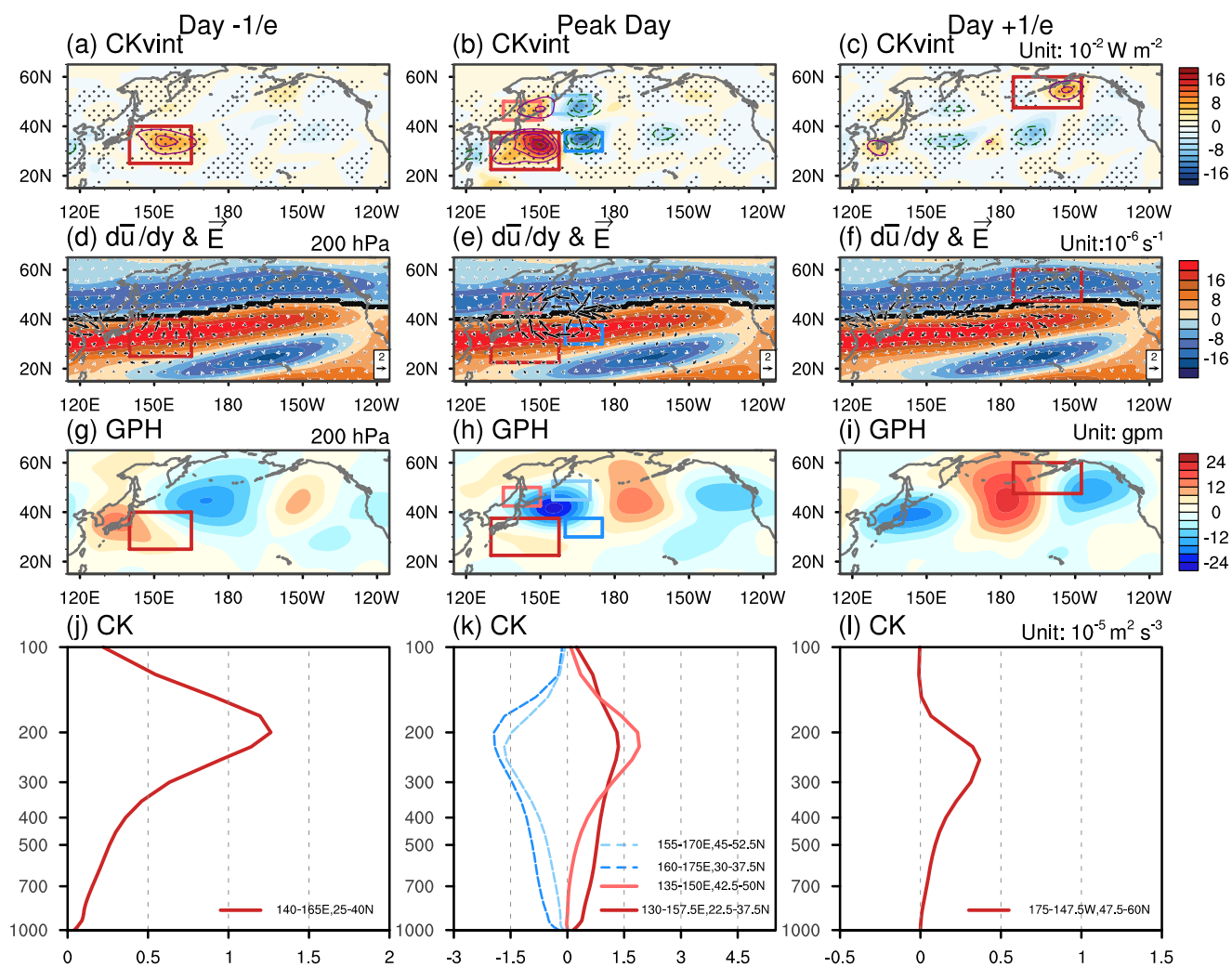
	Horizontal domain	τ_{CK}	τ_{CP}	τ_{dry}	τ_{moist}	τ_{total}
Developing phase	10°N–60°N, 120°E–180°	5.1*	4.6*	5.0*	4.7*	2.4*
Mature phase	10°N–60°N, 110°E–120°W	21.9	1.2*	4.7*	5.0*	2.4*
Decaying phase	30°N–60°N, 120°E–130°W	−7.4	8.7	−22.85	11.2	22.0



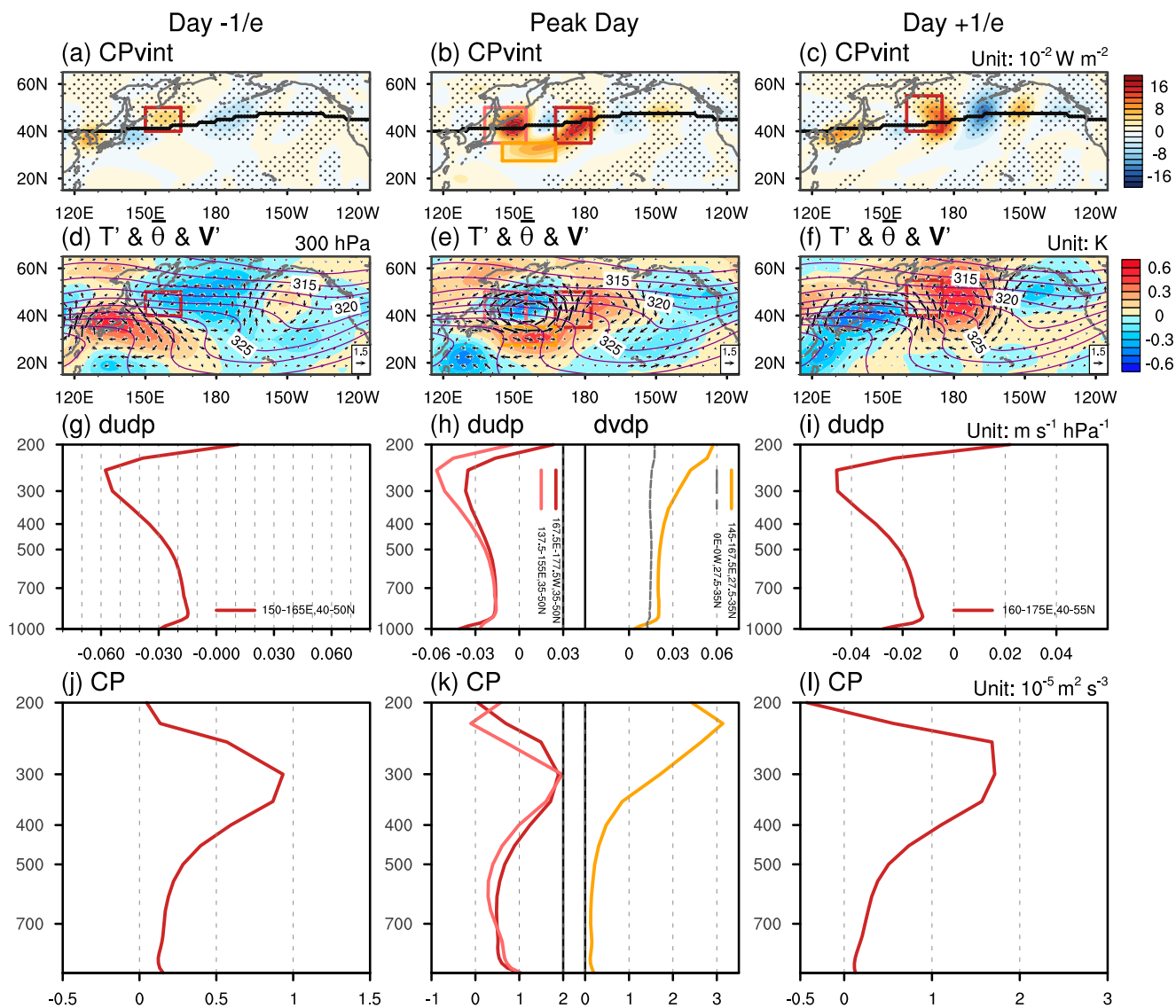
Supplementary Fig. S1 Same as Fig.4, but for the 42 negative PJ_comb events



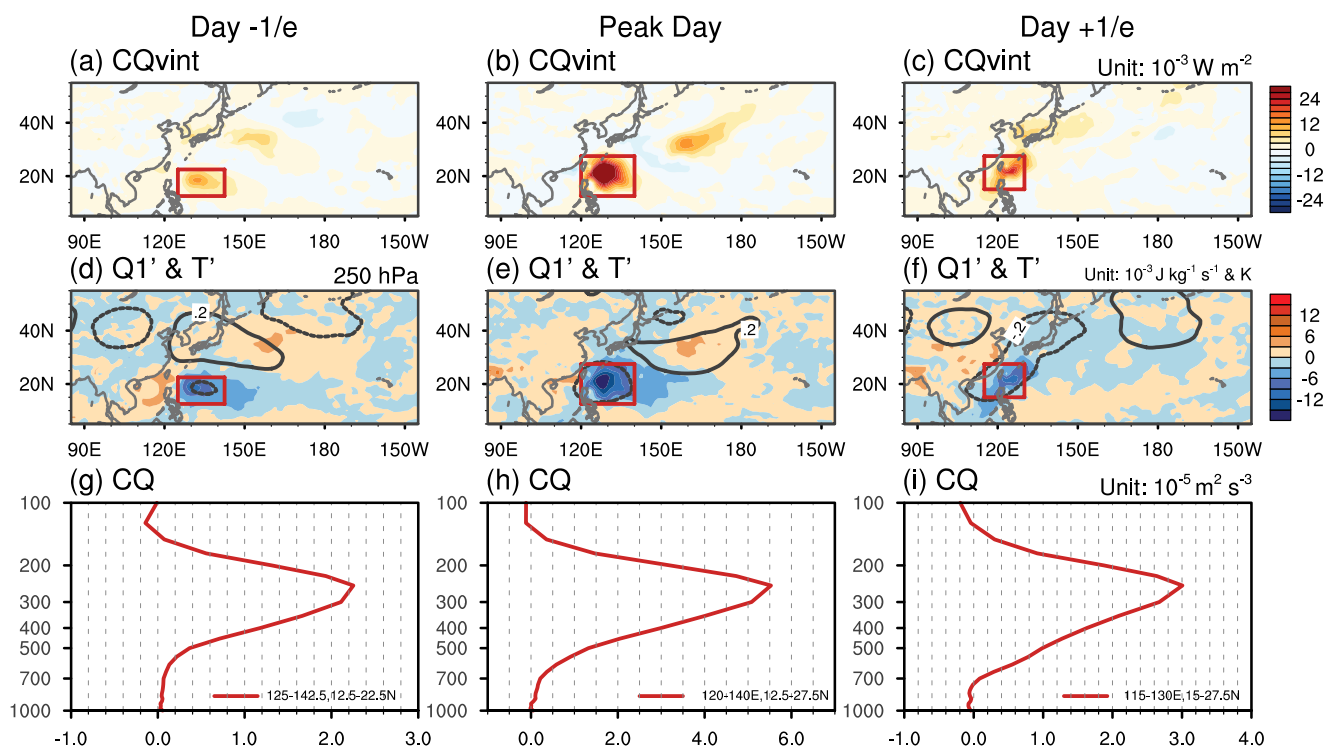
Supplementary Fig. S2 Same as Fig.5, but for the 30 negative PJ_only events



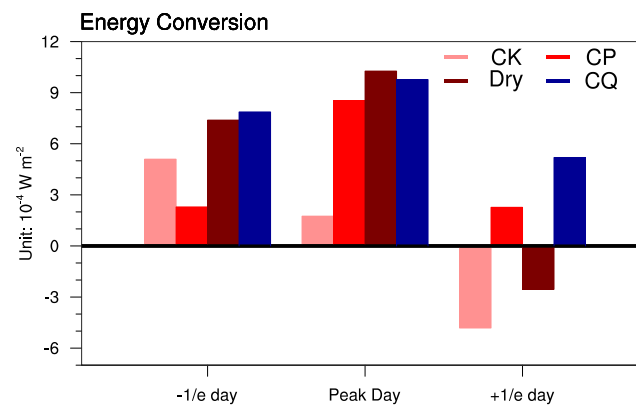
Supplementary Fig. S3 Same as Fig. 6, but for the 225 negative PJ events



Supplementary Fig. S4 Same as Fig. 7, but for the 225 negative PJ events



Supplementary Fig. S5 Same as Fig. 8, but for the 225 negative PJ events



Supplementary Fig. S6 Same as Fig. 9, but for the 225 negative PJ events