



Figure S4 Comparison of phenotypic plasticity index (PIv) in morphological (LMA: leaf mass per area) and physiological traits in needles of *Cryptomeria japonica*, averaged across five provenances grown in two common gardens located in Miyagi (Nrk) and Kumamoto (Ksm). Pigment PIv values represent the average of all components, including chlorophyll *a*, chlorophyll *b*, xanthophyll cycle, neoxanthin, lutein,  $\alpha$ -carotene and  $\beta$ -carotene in summer, and surplus rhodoxanthin in winter.