Regions where Vs and Qs anomalies suggest mantle temperatures lower than assumed (alternative and preferred explanation is Fe-depletion of cratonic lithosphere)

Regions and T at z=100 km	$\delta V_s = V_s - V_s^T$ (% PREM) for V_s^T with account for anelasticity [(a)]	δT (deg C) required to explain δV_s		Regions and T at z=100 km	$\delta Q_s = Q_s - Q_s^T$ (% PREM)	δT (^{o}C) required to explain δQ_s
		For δV_s with account for anelasticity [(a)]	For δV_s from linear Vs-T relationship [(b)]			
East European Platform (750^o-850^o C)	+1+2 %	-70^o -150^o C	-100^o-250^o C	East European Platform (750-850 ^{o}C)	+50	-250^o C
North and Central Australia (900^o-1000^o C)	+1+2 %	-70^o -150^o C	-100^o-250^o C	Central Australia (900-1000 ^{o}C)	+150	In excess of -600^o C
Slave and Hearne Provinces Canadian shield (900^o C)	+1+2 %	-70^o -150^o C	-100^o-250^o C	Slave and Hearne Provinces (Canadian shield) (900 ^{o}C)	+100	-350^o - 450^o C
South-Central USA (900^o-1000^o C)	+1 %	-70^o C	-100^o C	South-Central USA (900-1000 ^{o}C)	+50	-250^o - 300^o C
Mobile belts of South Africa and Central Africa (*) (1200^o-1300^o C)	+5 %	-450^o C	-400^o-600^o C	Central Africa (**) (1200-1300 ^{o}C)	+100	In excess of -600^o C
Himalayas and the Tethys belt (*) (^) (1300^o C)	+3+5 %	-250^o -450^o C	-250^o-600^o C	Himalayas and the Tethys belt (*) (^) (1300 ^{o}C)	+50+100	In excess of -600^o C
West Siberia Basin and Taimyr peninsula (*) (1100^o-1300^o C)	+3 +4%	-250^o -350^o C	-500^o -600^o C	Arabian Shield (900-1100 ^{o}C)	+150	In excess of -600^o C

(a) For V_s^T, δVs, and δT calculated after Deschamps *et al*. (2002)
(b) For V_s^T, δVs, and δT calculated from ∂Vs/∂T=0.35 m/s/K
^ T taken from published petrological and non-steady state constraints on the thermal regime
* Vs-T conversion used to constrain Fig. 9 can be invalid for this region because of high homologous T
** Eq. (6) used to constrain Fig. 8 can be invalid for this region because of high homologous T