



Most terrane maps focus on Canada; map at right extends this into US





 $\sin \lambda' = \sin \lambda \cos p + \cos \lambda \sin p \cos D$ $\phi' = \phi + \beta \text{ when } \cos p \ge \sin \lambda \sin \lambda'$ or $\phi' = \phi + 180^{\circ} - \beta \text{ when } \cos p < \sin \lambda \sin \lambda'$ where $\sin \beta = \sin p \sin D / \cos \lambda'$ and $\tan I = 2 \cot p$ where $0^{\circ} \le p \le 180^{\circ}$











Mineral	Composition	Curie Point	Origin
Magnetite	Fe ₃ O ₄	580°C	Magmatic, occasional metamorphic and chemical
Titanomagnetite	$\operatorname{Fe}_{2}\operatorname{Fe}_{x}\operatorname{Ti}_{1-x}O_{4}$	150-580°C	"
Hematite	α-Fe ₂ O ₃	675°C	Often sedimentary, chemical, sometimes magmatic, metamorphic
Maghemite	γ-Fe ₂ O ₃	590-675°C —goes to hematite above 250-750°C	Chemical
Pyrrhotite	$FeS_{1+x}, 0 < x \le 0.14$	320°C	Magmatic, chemical
Goethite	α-FeOOH	120°C (dehydrates 100- 300°C)	Chemical (weathering)
Lepidocrocite	ү-FeOOH	Below room temperature (dehydrates 250°C to maghemite)	Chemical (weathering)
Greigite	Fe ₃ S ₄	~330°C	Chemical (anoxic sediments)































Attention focused on one pluton for what could be wrong in pmag...



could translate or tilt....

