



DOT PRODUCT:

$$\left. \begin{aligned} \underline{SLP}(t) \cdot \underline{NAOUnit}(t) \\ = |\underline{SLP}(t)| \cos \theta \end{aligned} \right\} \begin{array}{l} \text{this is} \\ \text{done} \\ \text{for all} \\ (\text{lat}, \text{lon}) \end{array}$$

~~not~~

the result of the dot product is
 prmslprnaoamp2d in my GRADS script.
 It's only a function of (lat, lon).

then,

$$\begin{aligned} \underline{SLP}(t) \perp \underline{NAO}(t) &= \underline{SLP}(t) - \underbrace{|\underline{SLP}(t)| \cos \theta}_{\underline{SLP}(t) \parallel \underline{NAO}(t)} \underline{NAOUnit}(t) \\ &= \underline{SLP}(t) - \text{prmslprnaoamp2d} \underline{NAOUnit}(t) \end{aligned}$$

$$\underline{SLP}(t) \parallel \underline{NAO}(t) = \text{prmslprnaoamp2d} \underline{NAOUnit}(t)$$