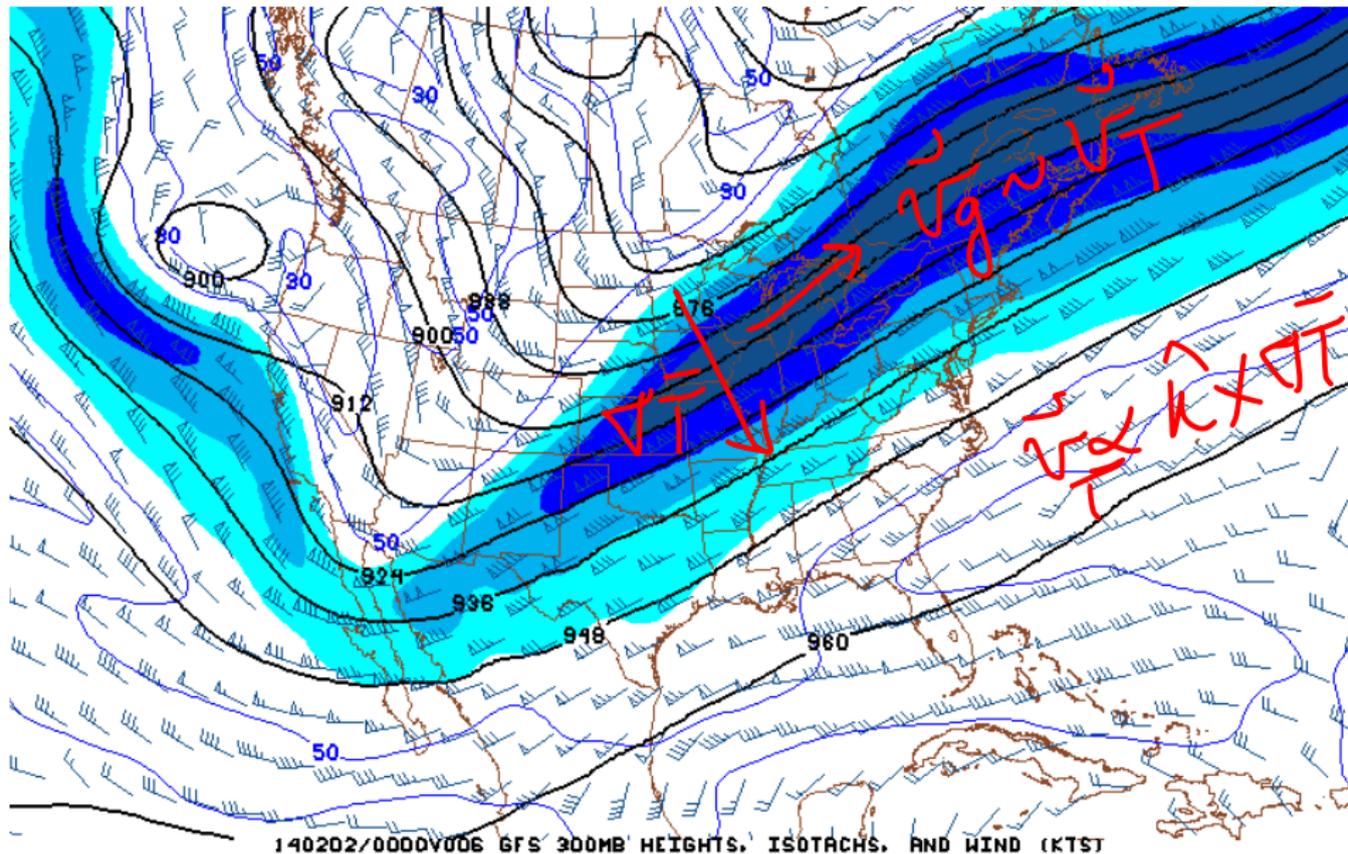


SCA 5622
Météorologie synoptique et laboratoire de météo

Vent thermique

Le mercredi 5 février 2014

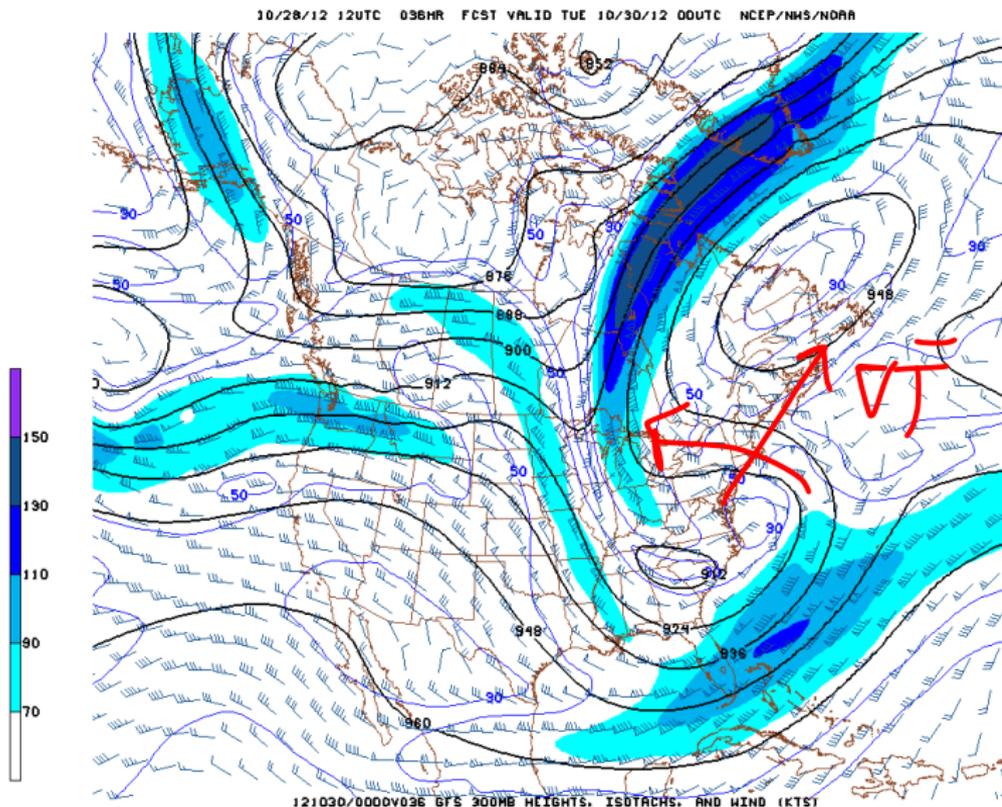

∇T horizontal



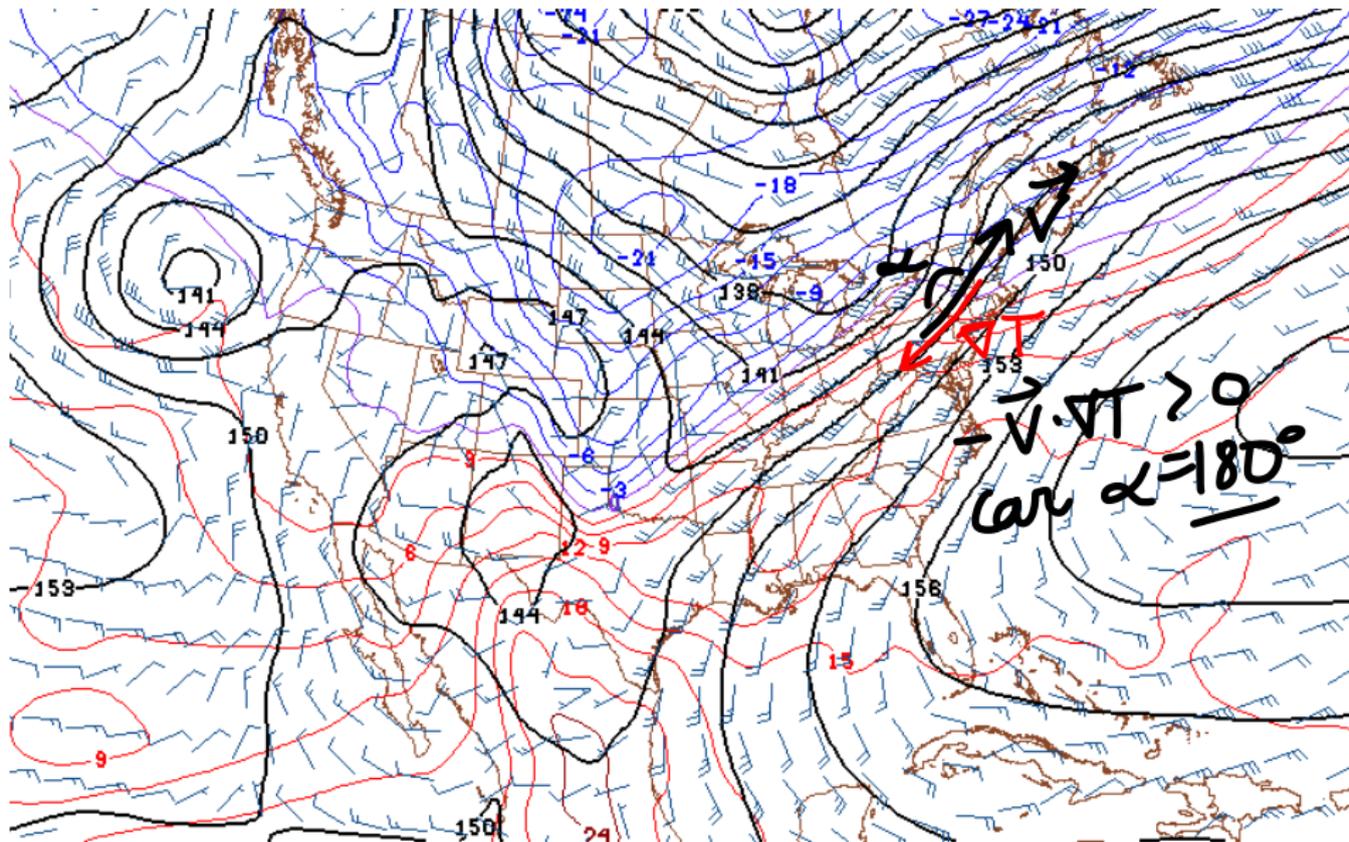
Inversement du ∇T sur la côte est américaine

Ouragan Sandy

300 hPa



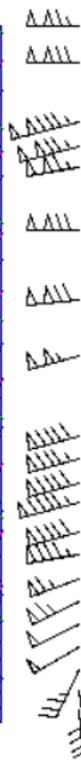
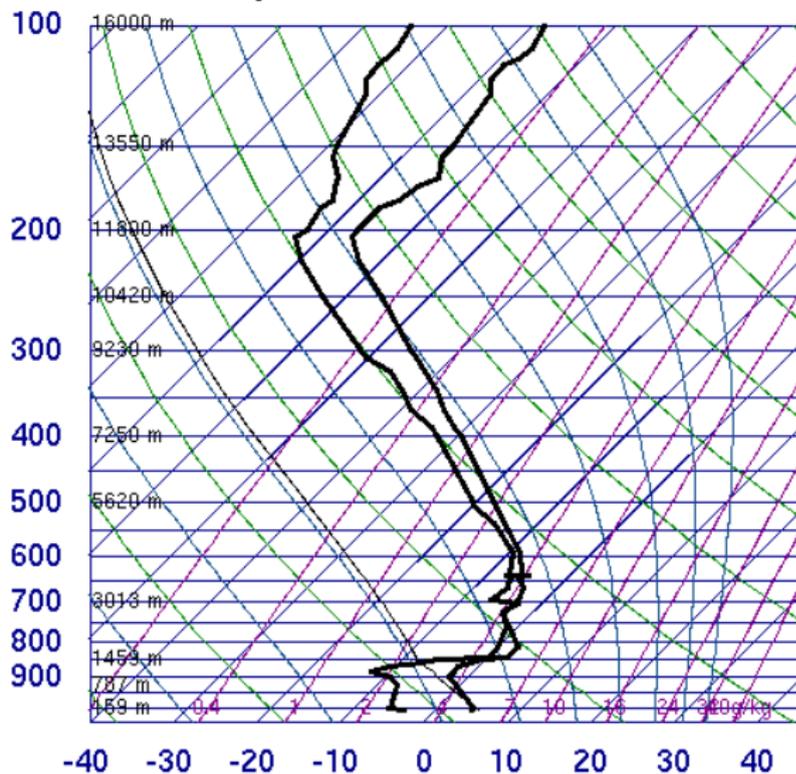
Identifier l'advection de température sur Albany NY



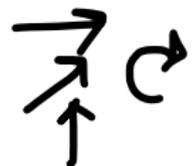
140202/0000V006 6FS 850MB HT, TEMP (C), AND WIND (KNTS)

Vérifier sur le skew-T

72518 ALB Albany



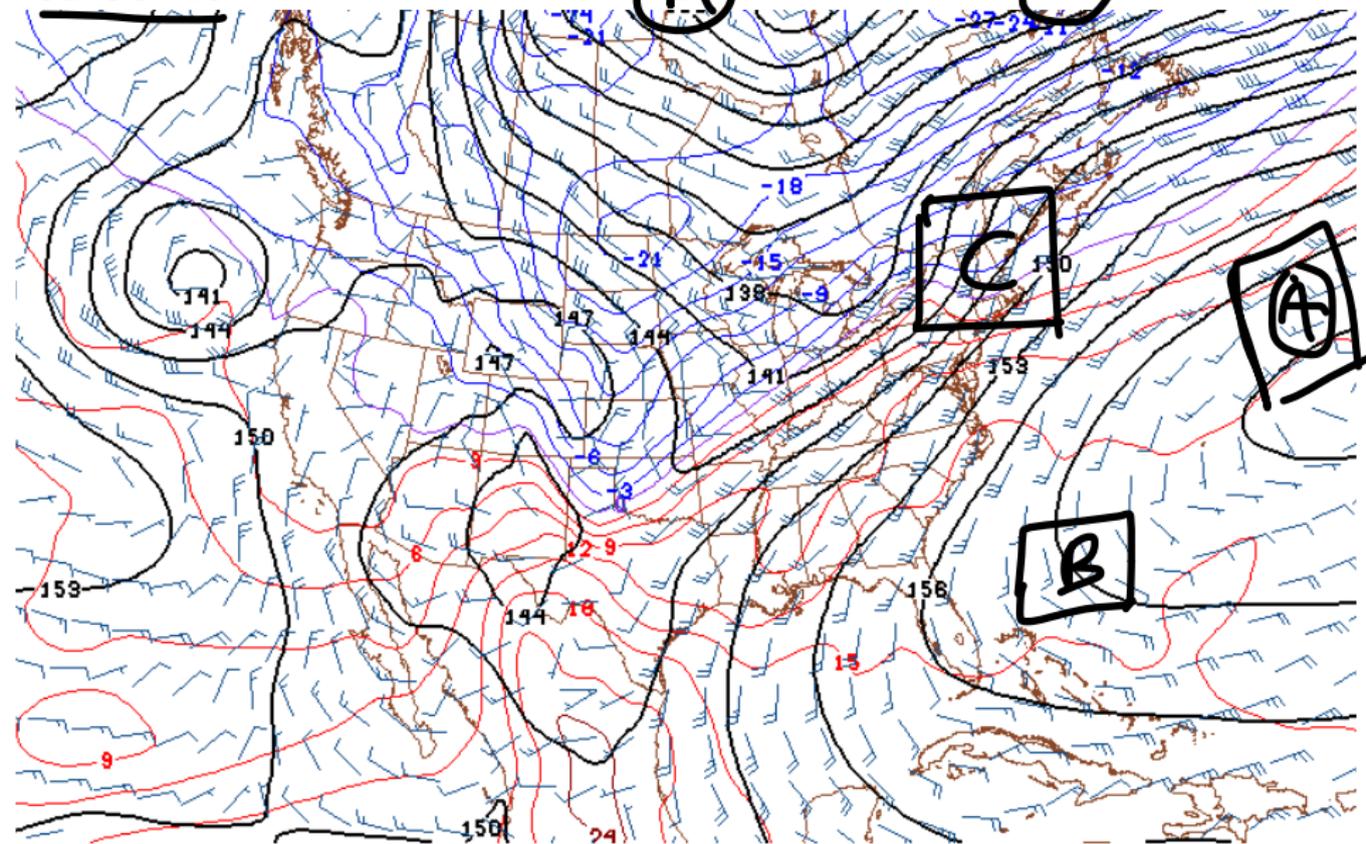
sens horaire



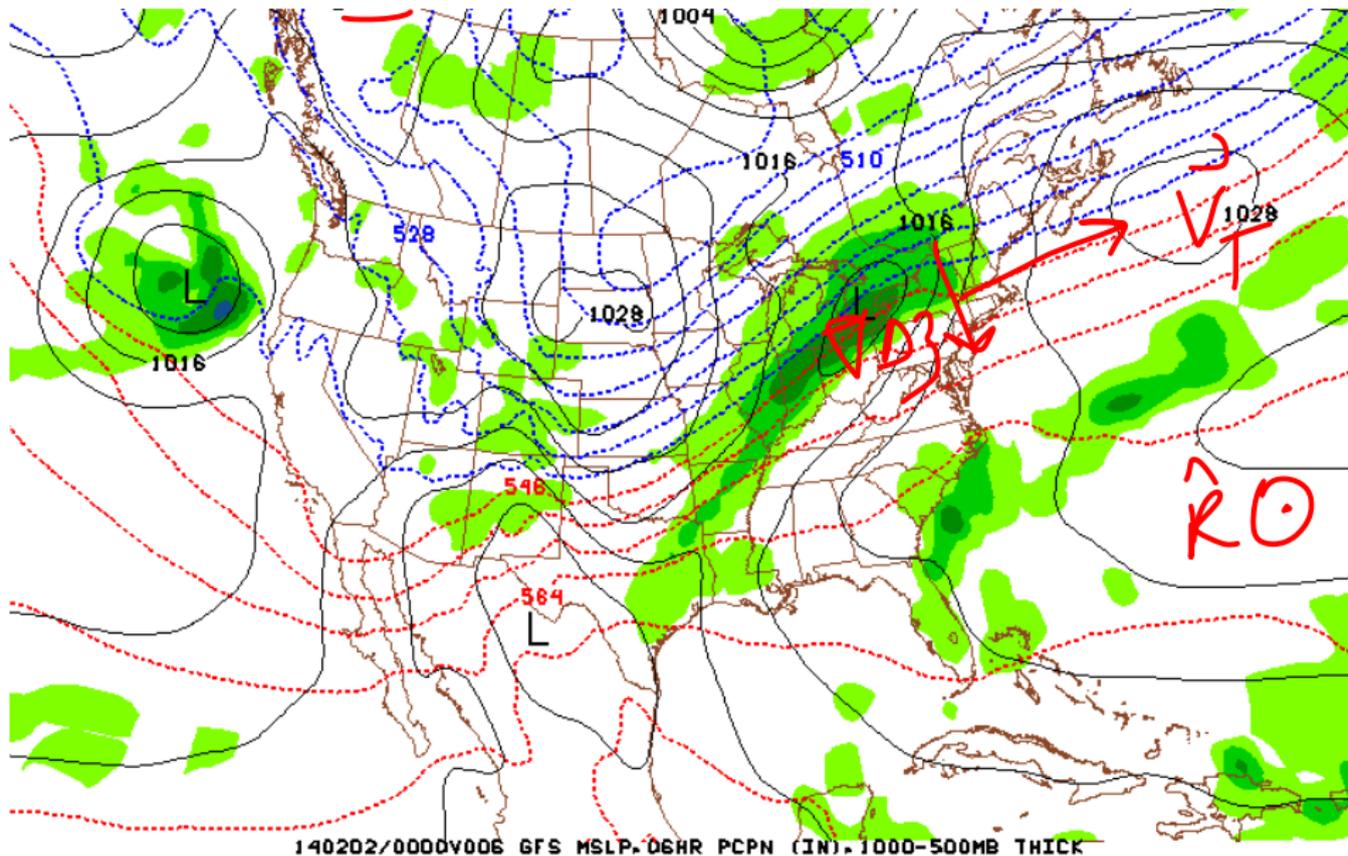
00Z 02 Feb 2014

University of Wyoming

Identifier une région équivalente-barotrope, barotrope et barocline



Déterminer le \vec{v}_T associé avec la couche d'air 1000-500 hPa

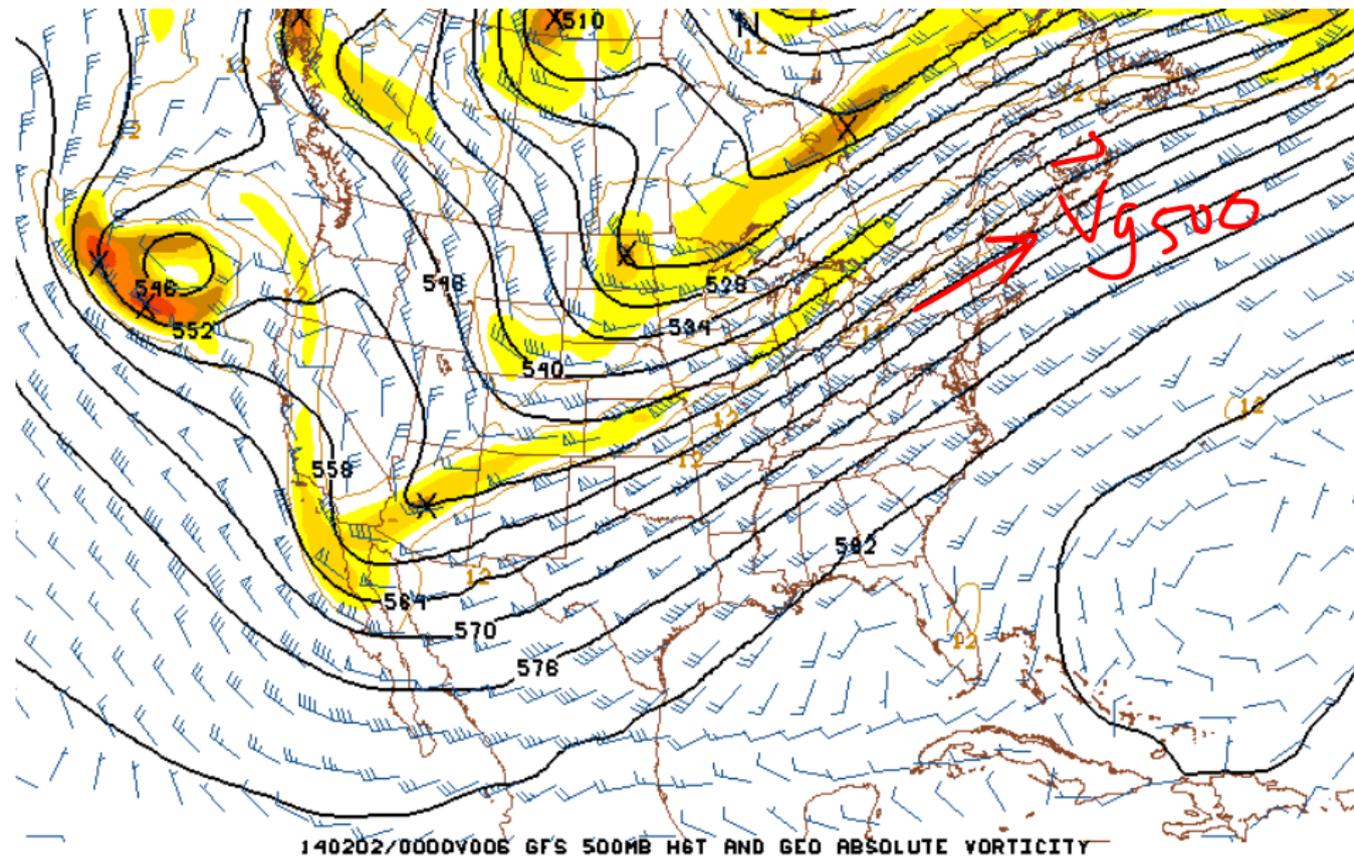


$$\vec{V}_T = \vec{V}_{g_{500}} - \vec{V}_{g_{1000}} = \frac{1}{f} \hat{k} \times \nabla \left[\Phi_{500} - \Phi_{1000} \right]$$

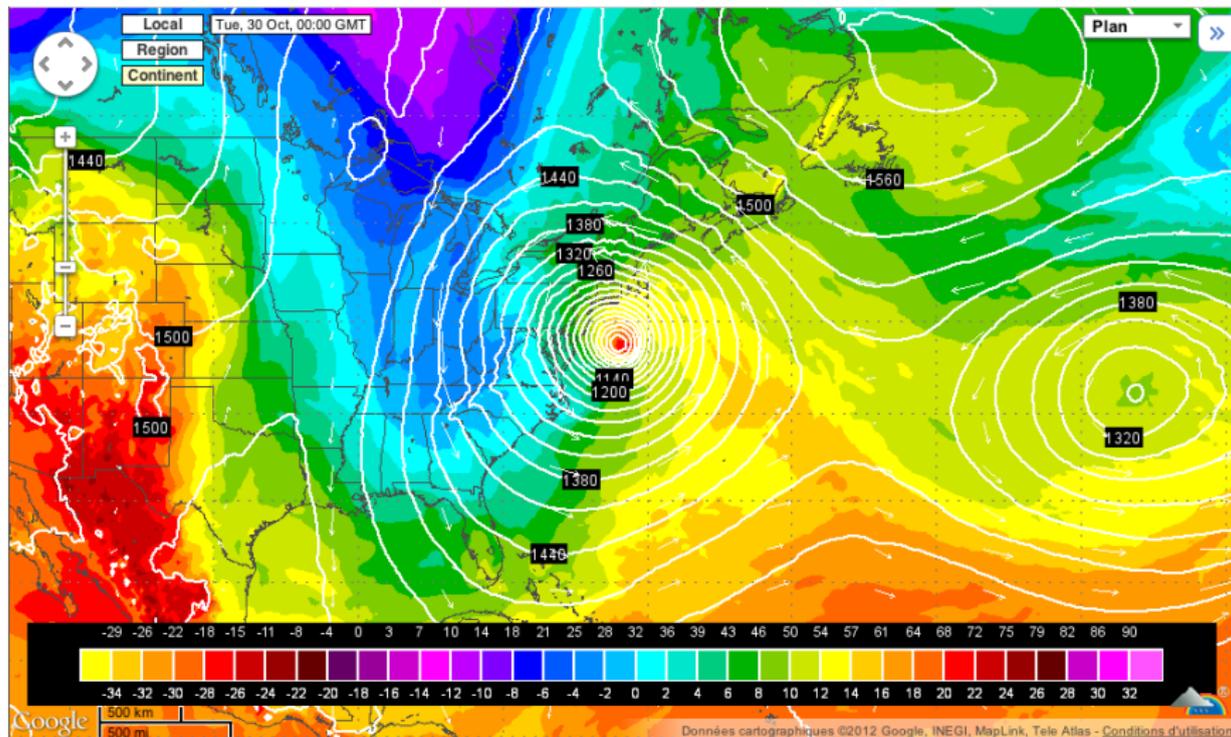
$$= \frac{g}{f} \hat{k} \times \nabla (\Delta z)$$

\uparrow
 → carte niveau de la mer

Vérifier la réponse



Dépression au coeur chaud - Ouragan Sandy - 850 hPa



Quel est le tourbillon thermique associé à l'ouragan Sandy?



$\rho_g < 0$



$\rho_g > 0$

F C F



et $\rho_T = \rho_{haut} - \rho_{bas}$

$\rho_T < 0 \rightarrow \heartsuit$ chaud