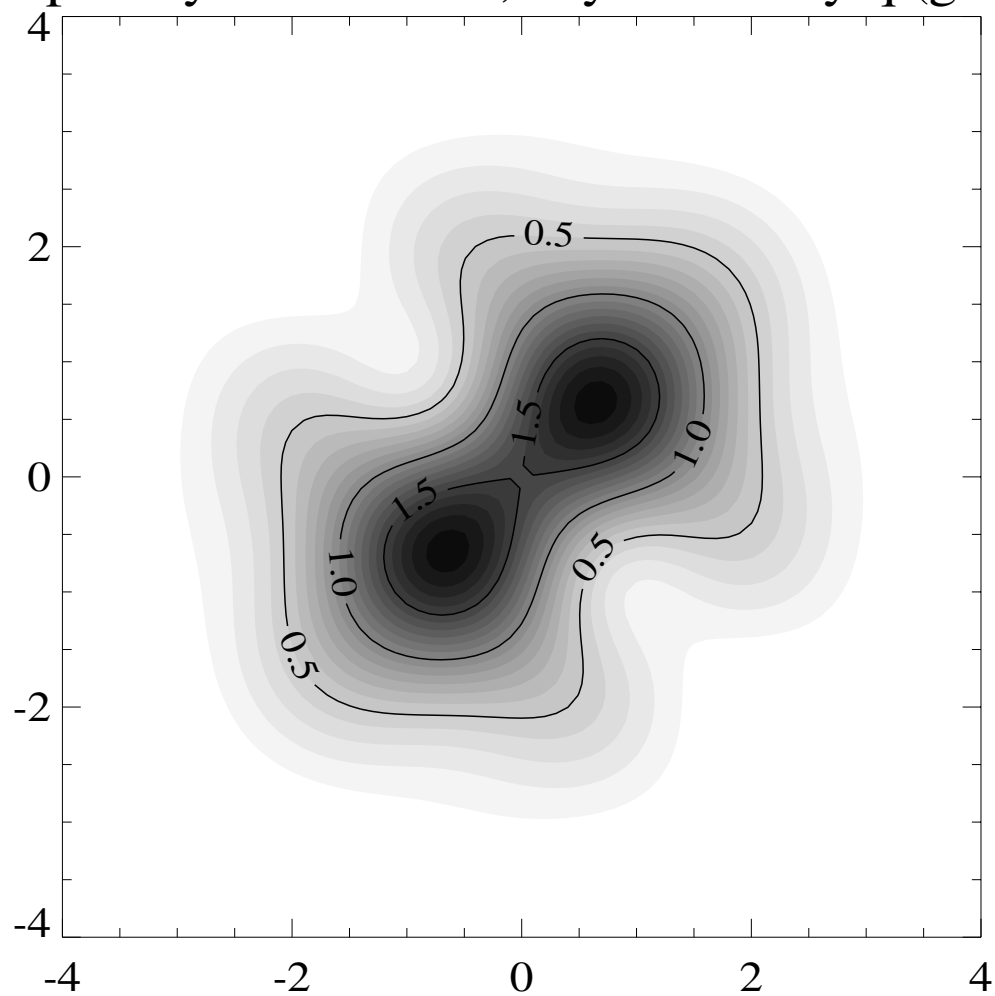
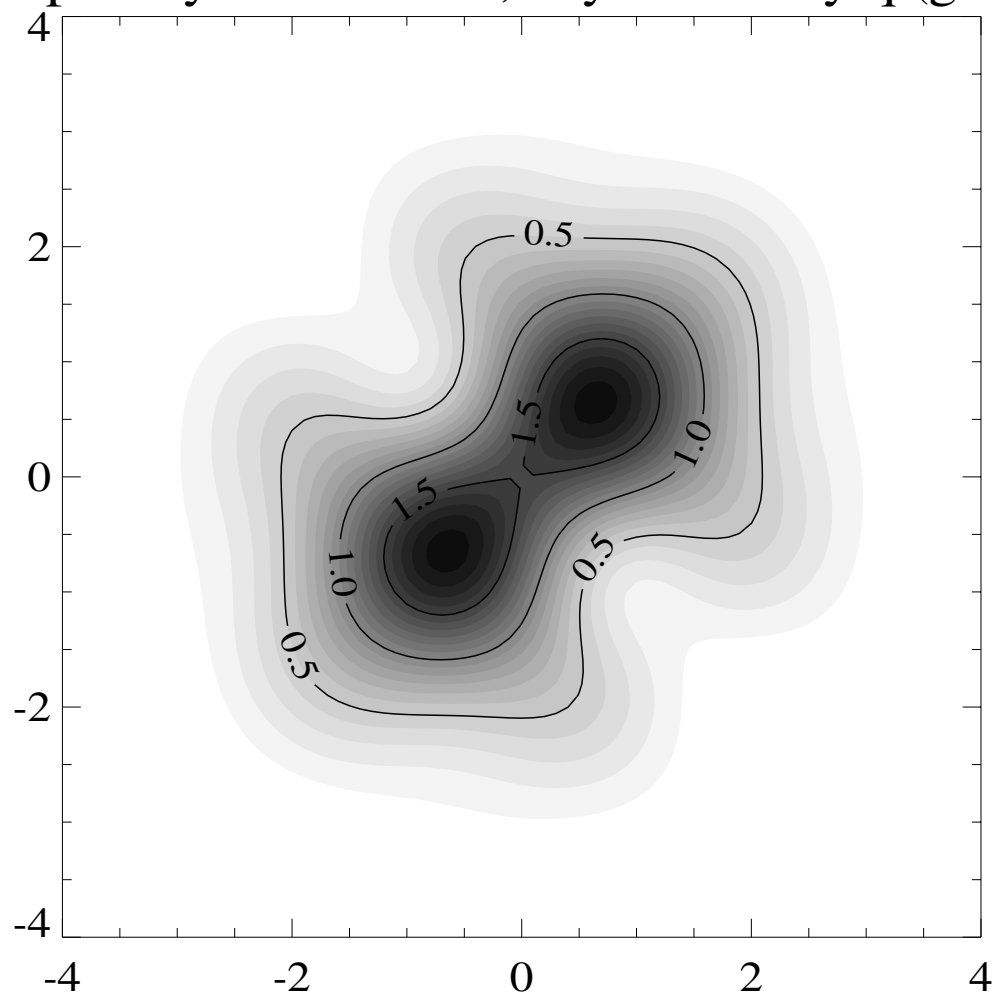


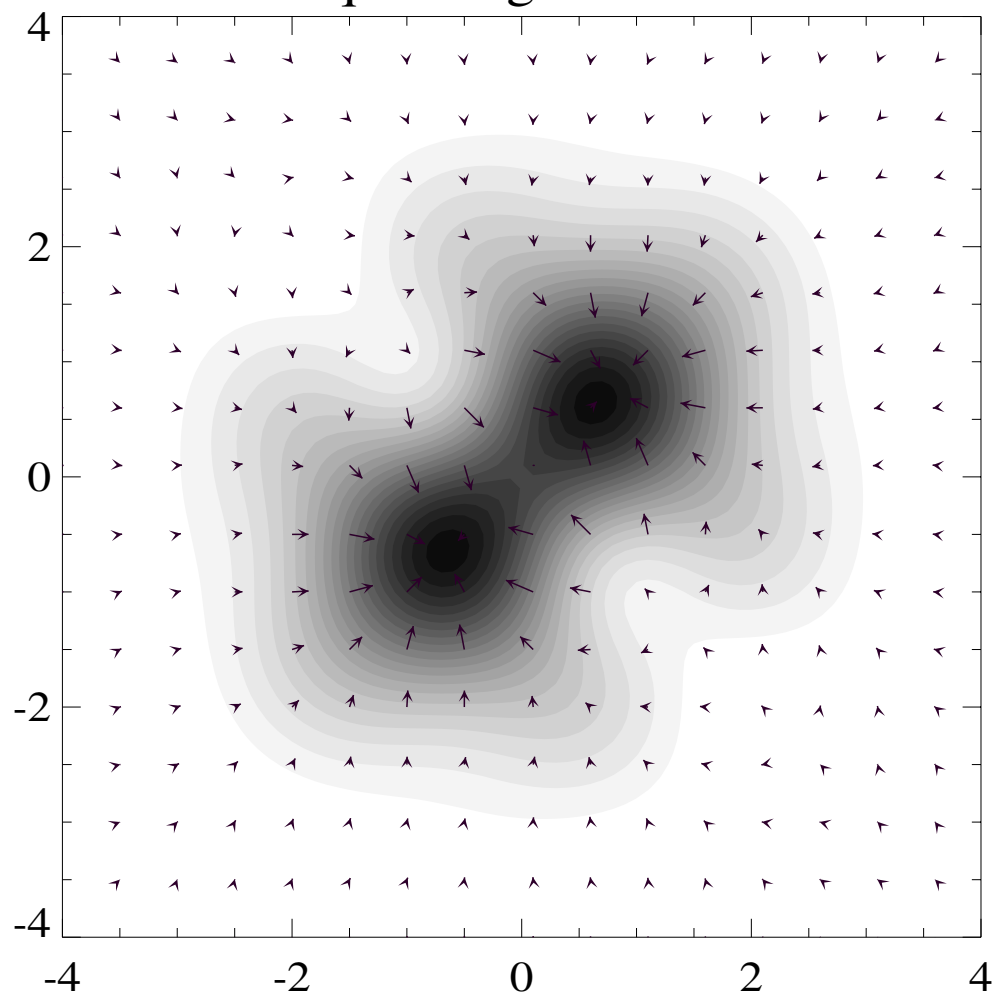
A patchy scalar field, say humidity  $q$  (g/kg)



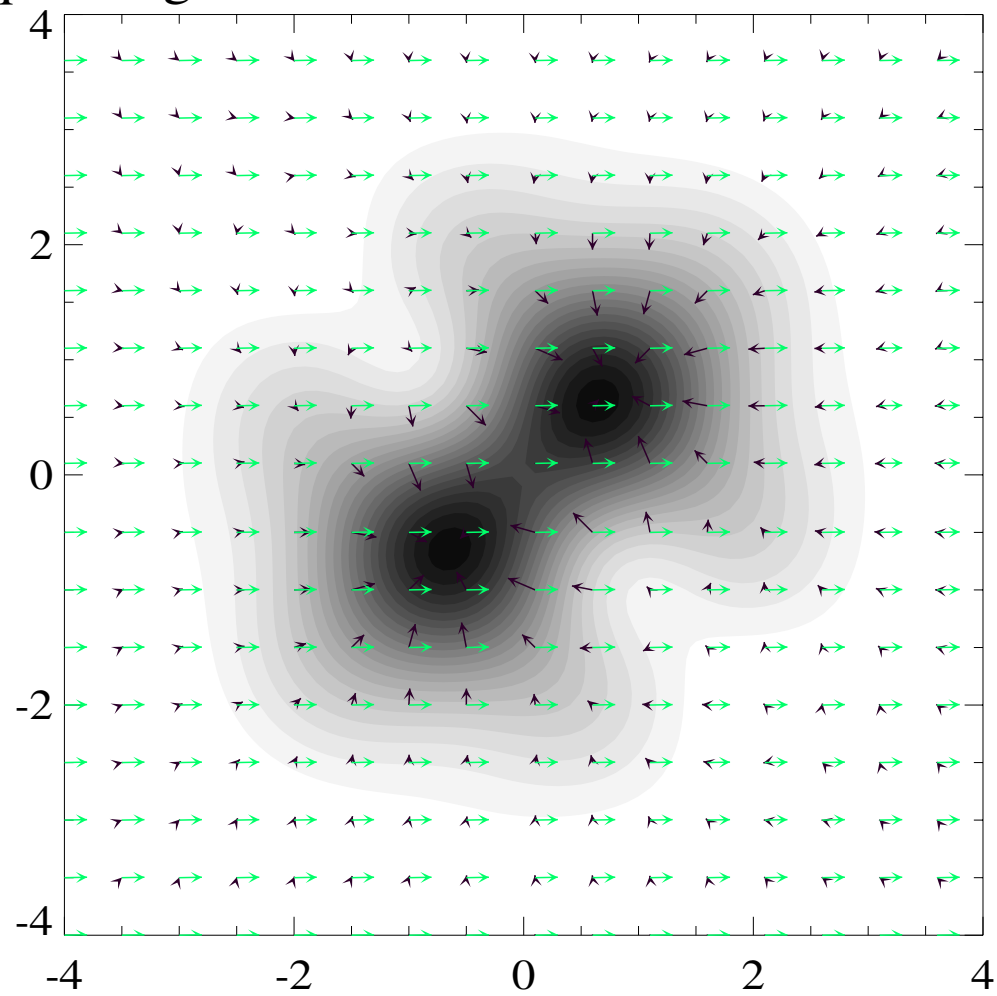
A patchy scalar field, say humidity  $q$  (g/kg)



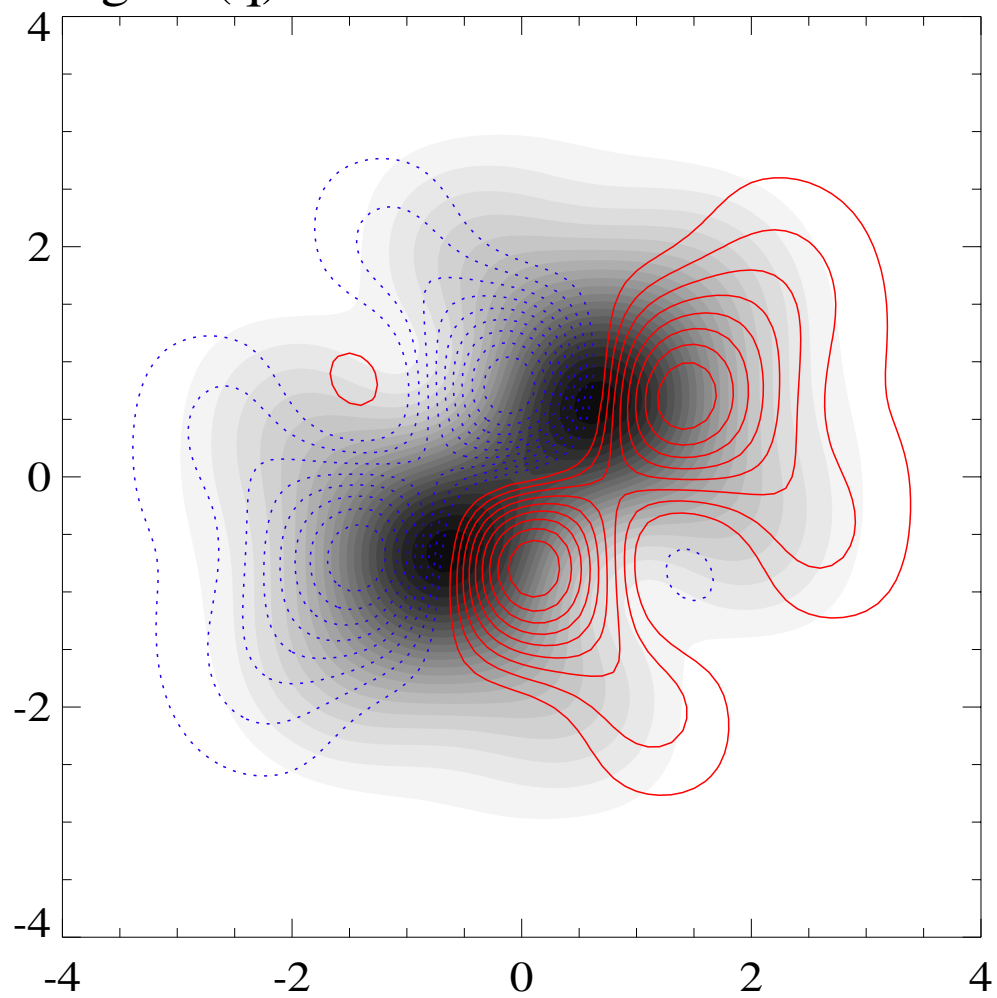
q & its gradient



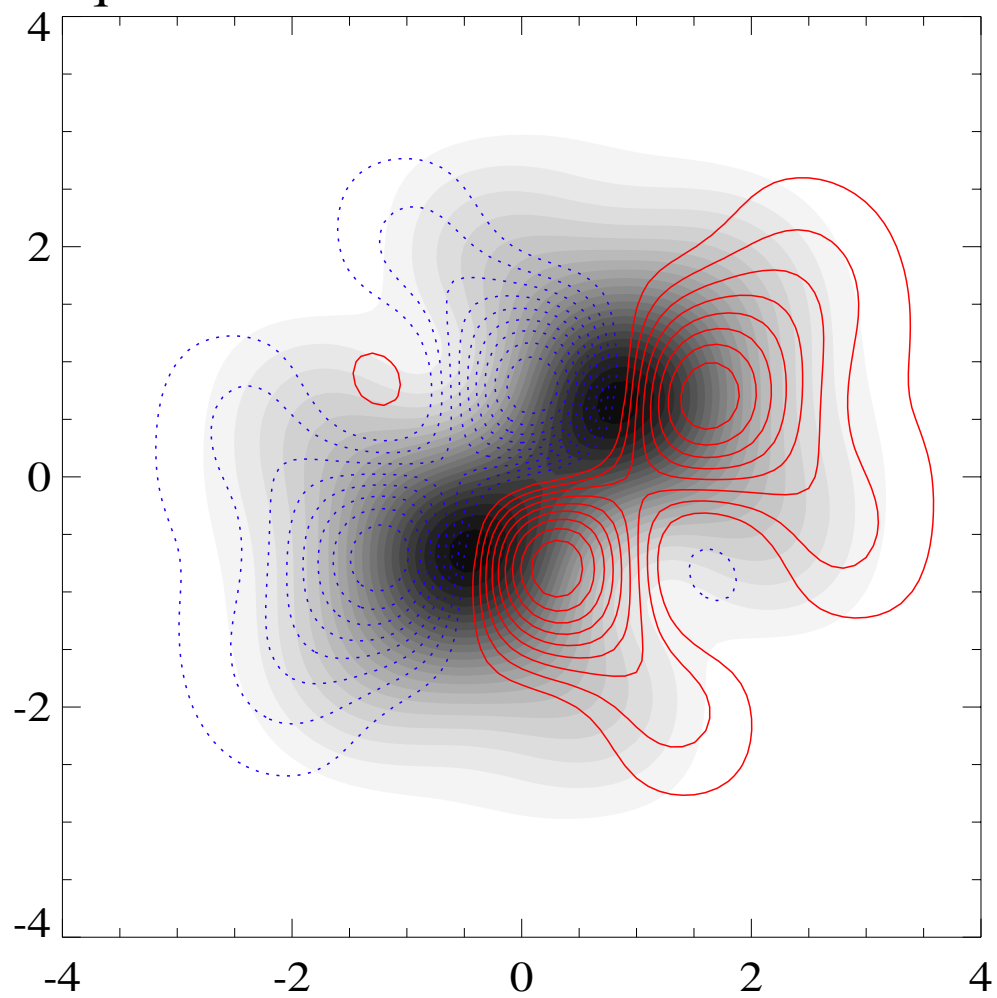
# q & its gradient AND A CONSTANT WIND



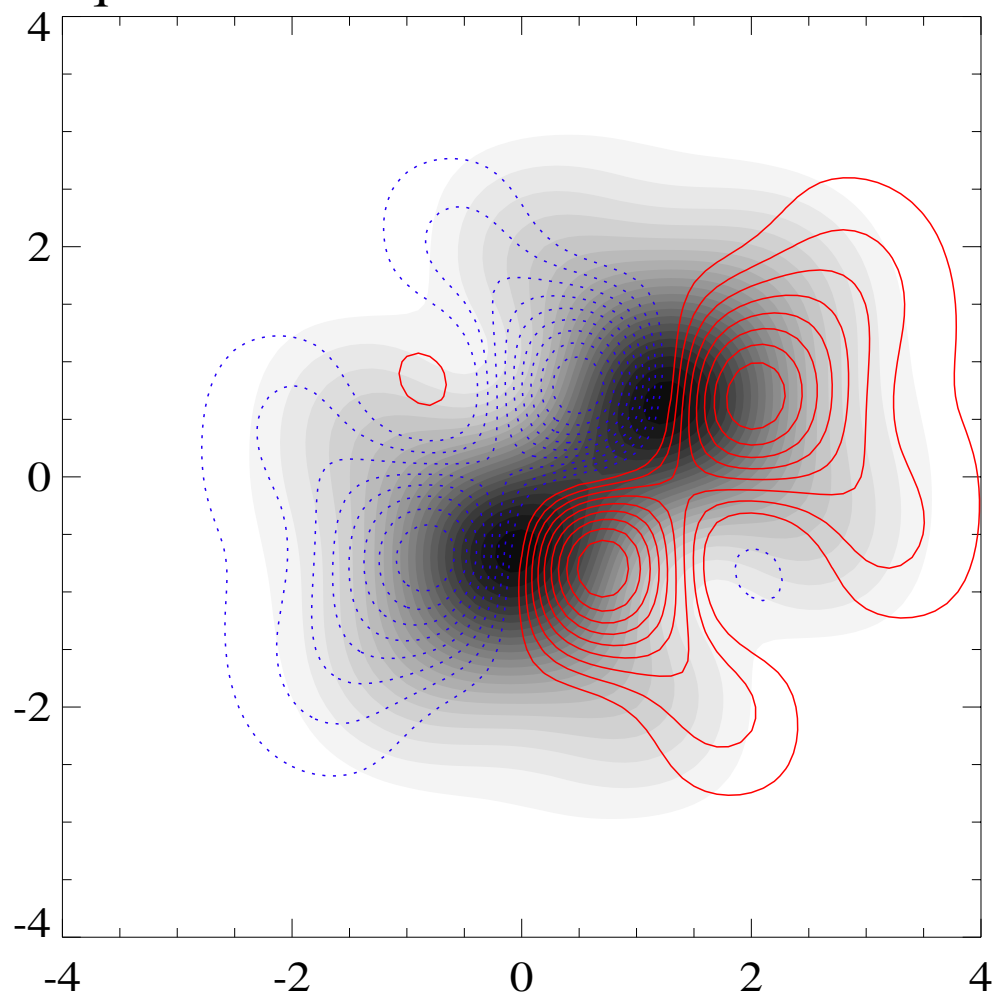
$-\mathbf{U} \cdot \text{grad}(\mathbf{q}) = \text{ADVECTIVE TENDENCY}$

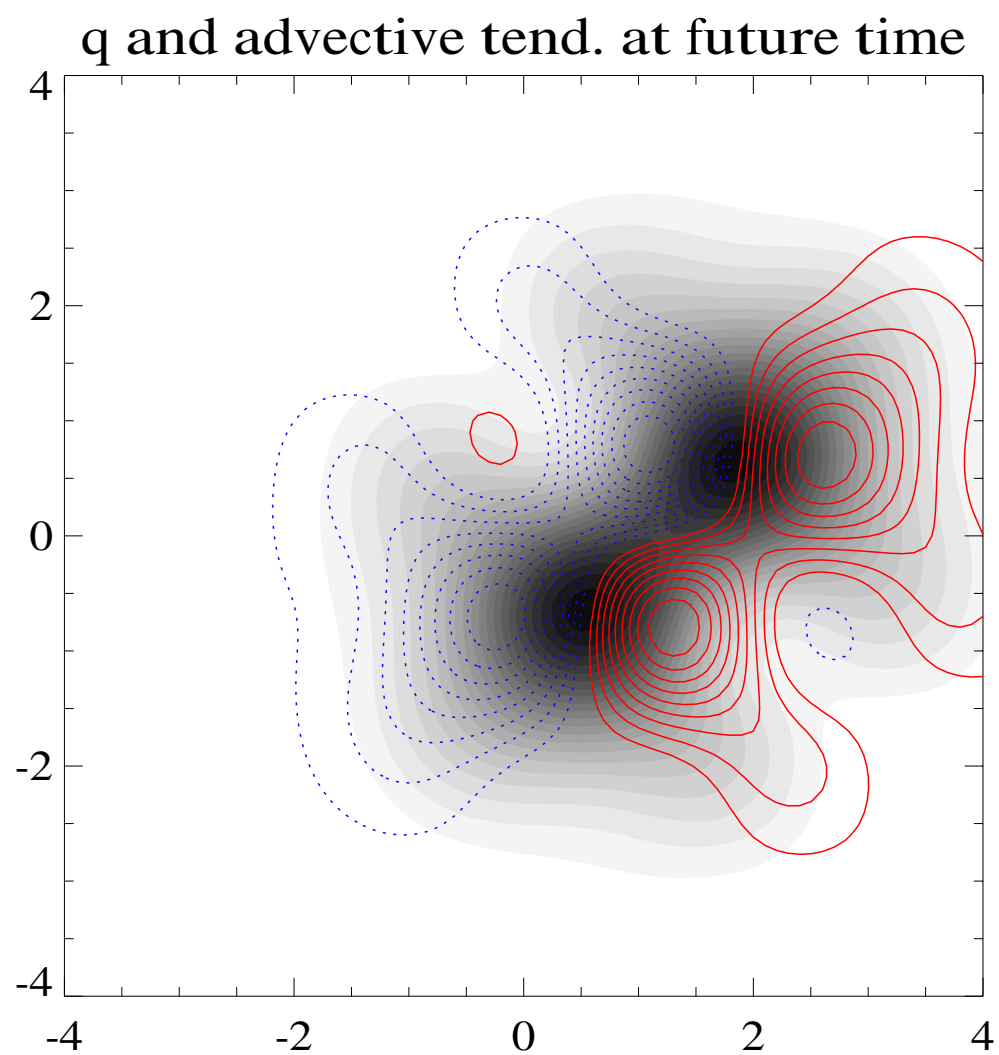


q and advective tend. at future time



q and advective tend. at future time

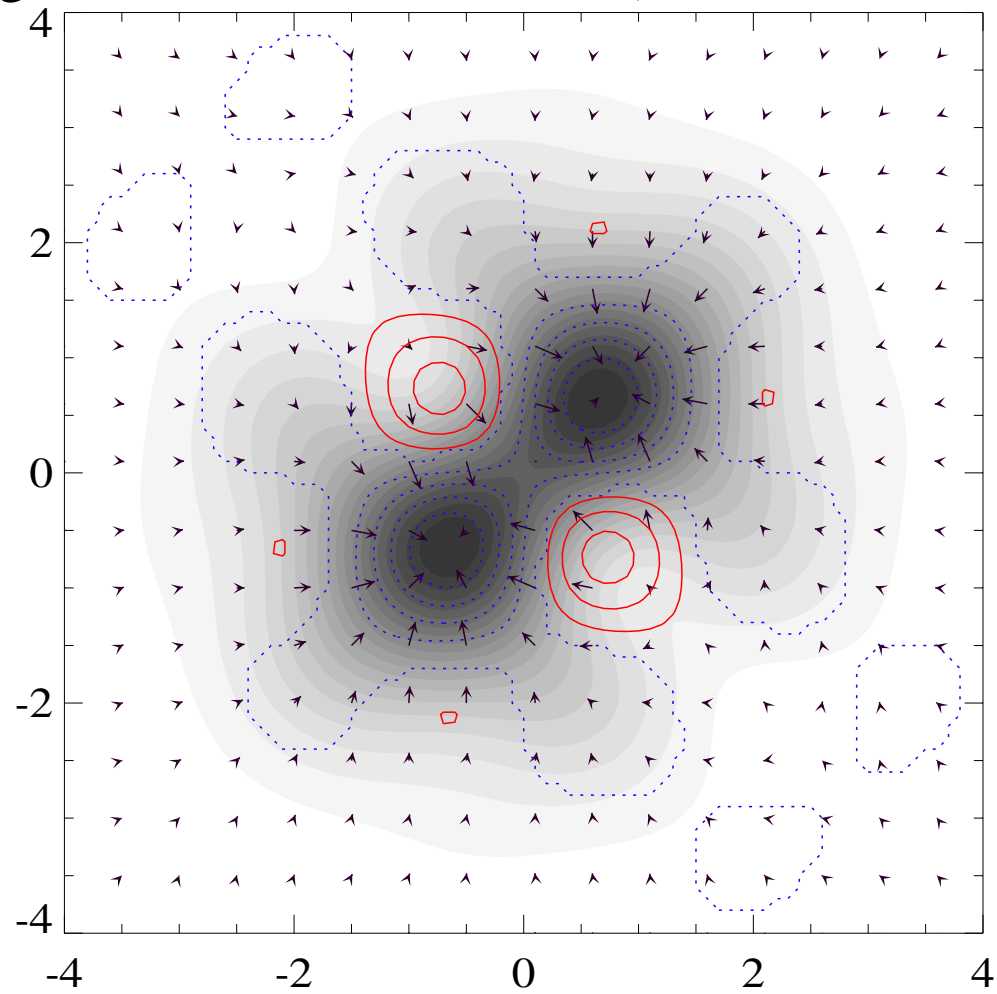




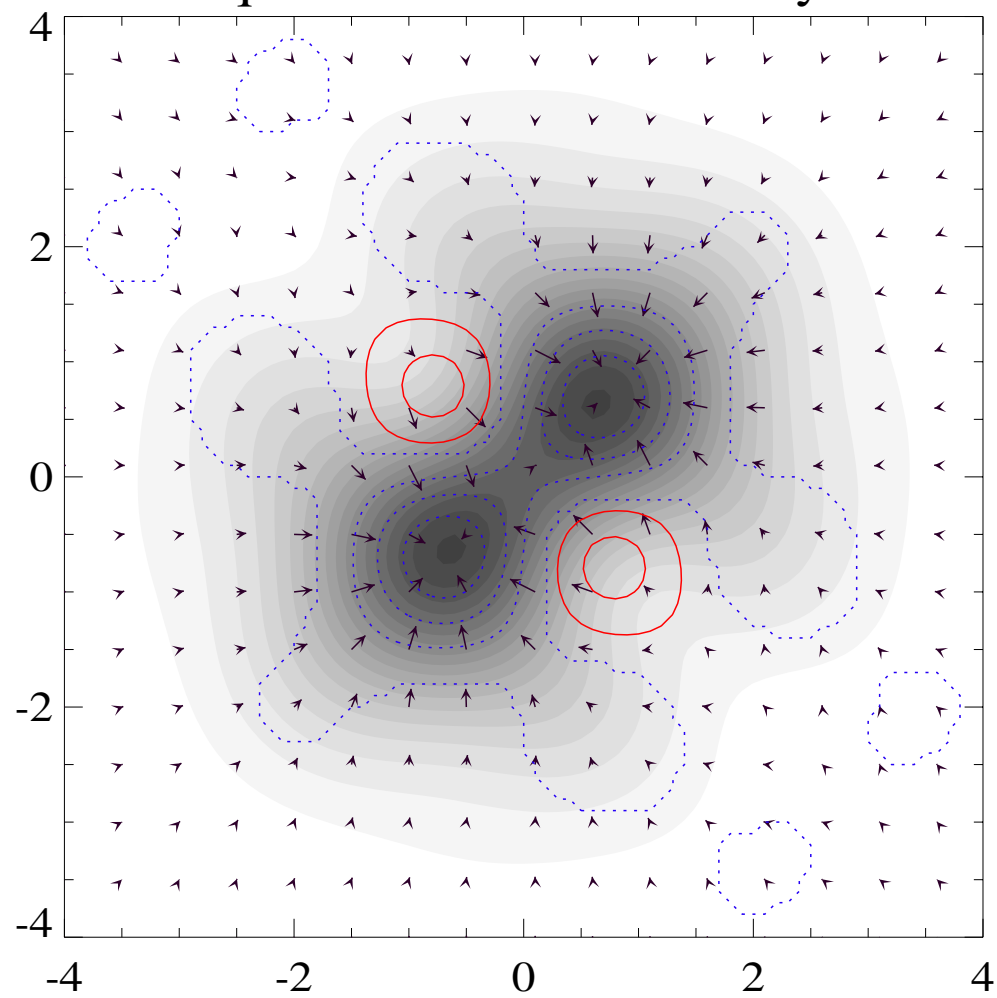
**Next:**  
**diffusion**  
**(back to page 2)**



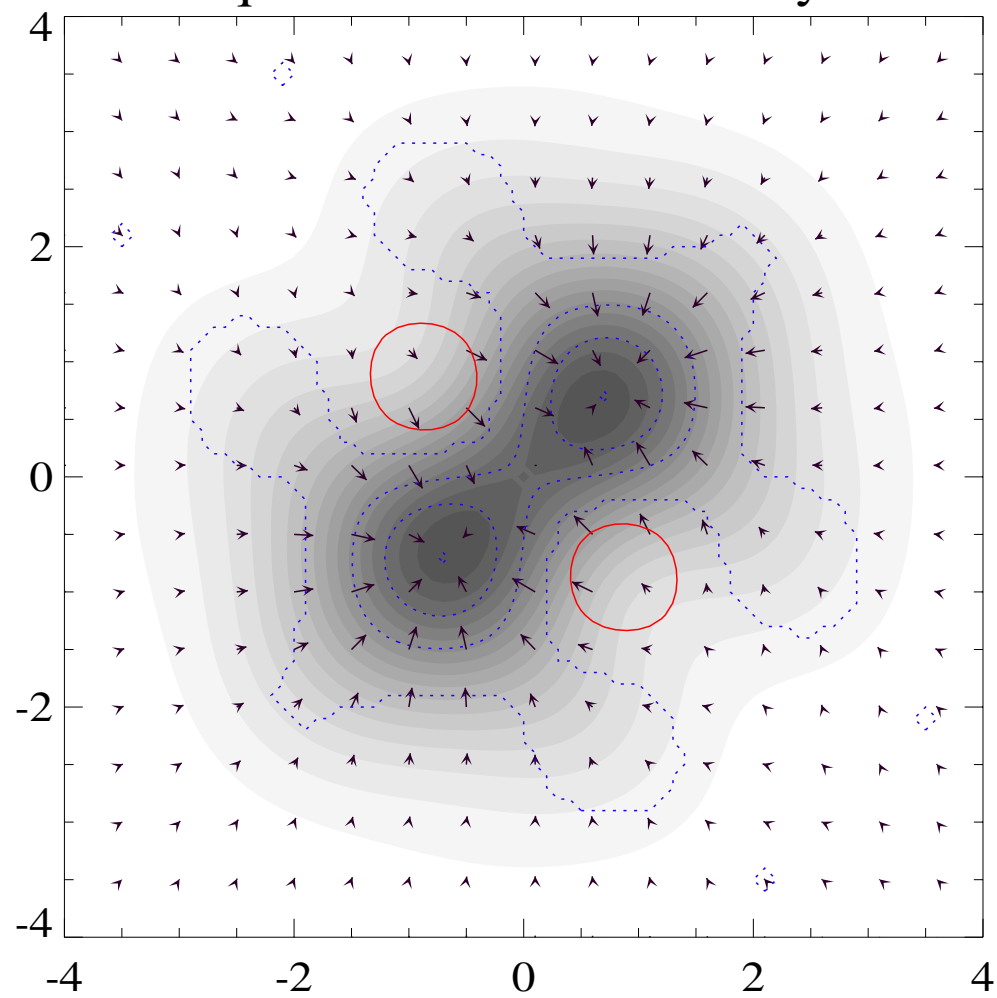
q, gradient & LAPLACIAN (diffusive tendency)



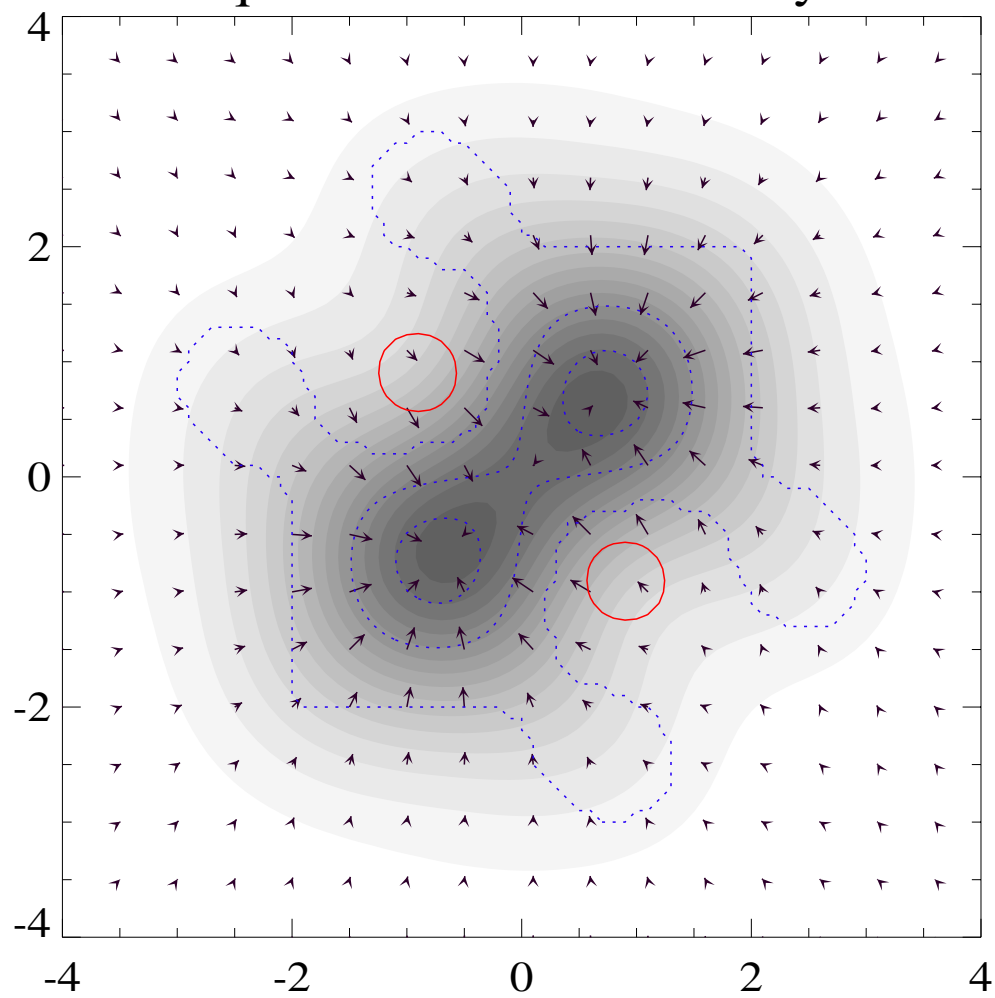
q and diffusive tendency



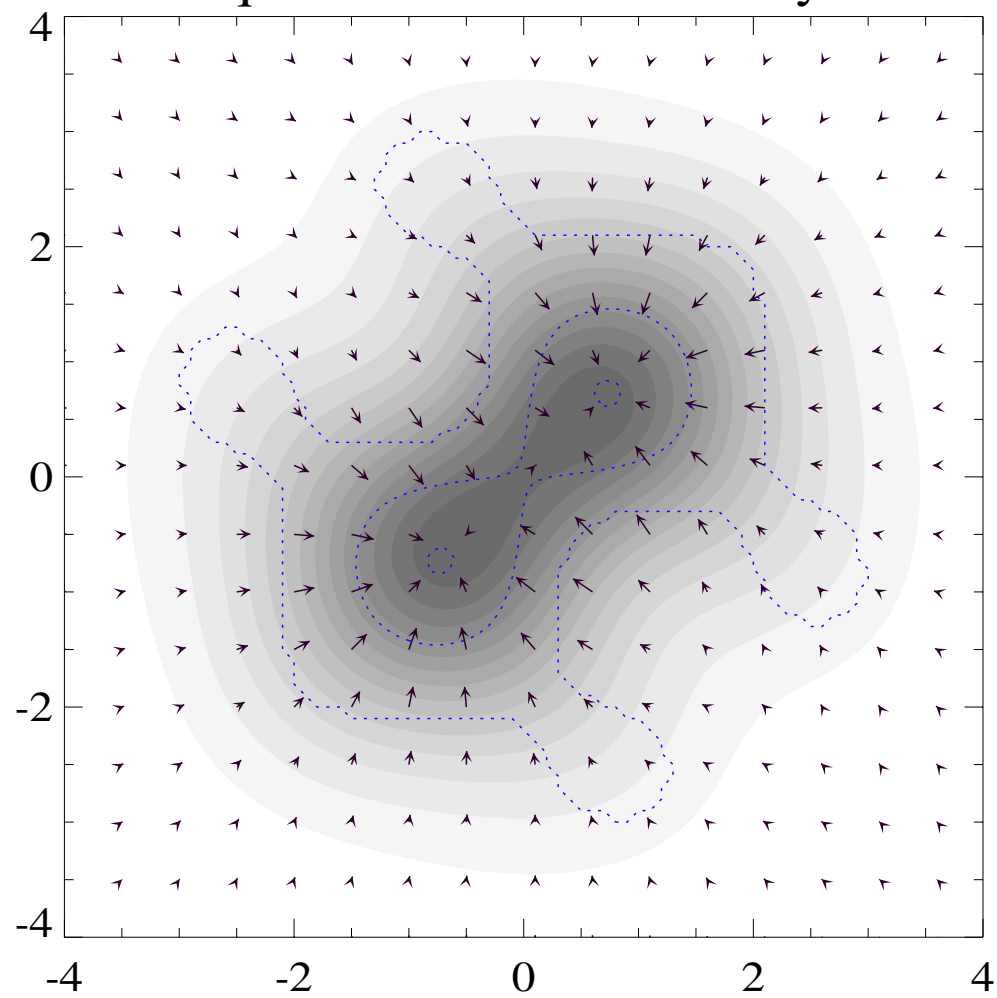
# q and diffusive tendency



# q and diffusive tendency



# q and diffusive tendency



# q and diffusive tendency

