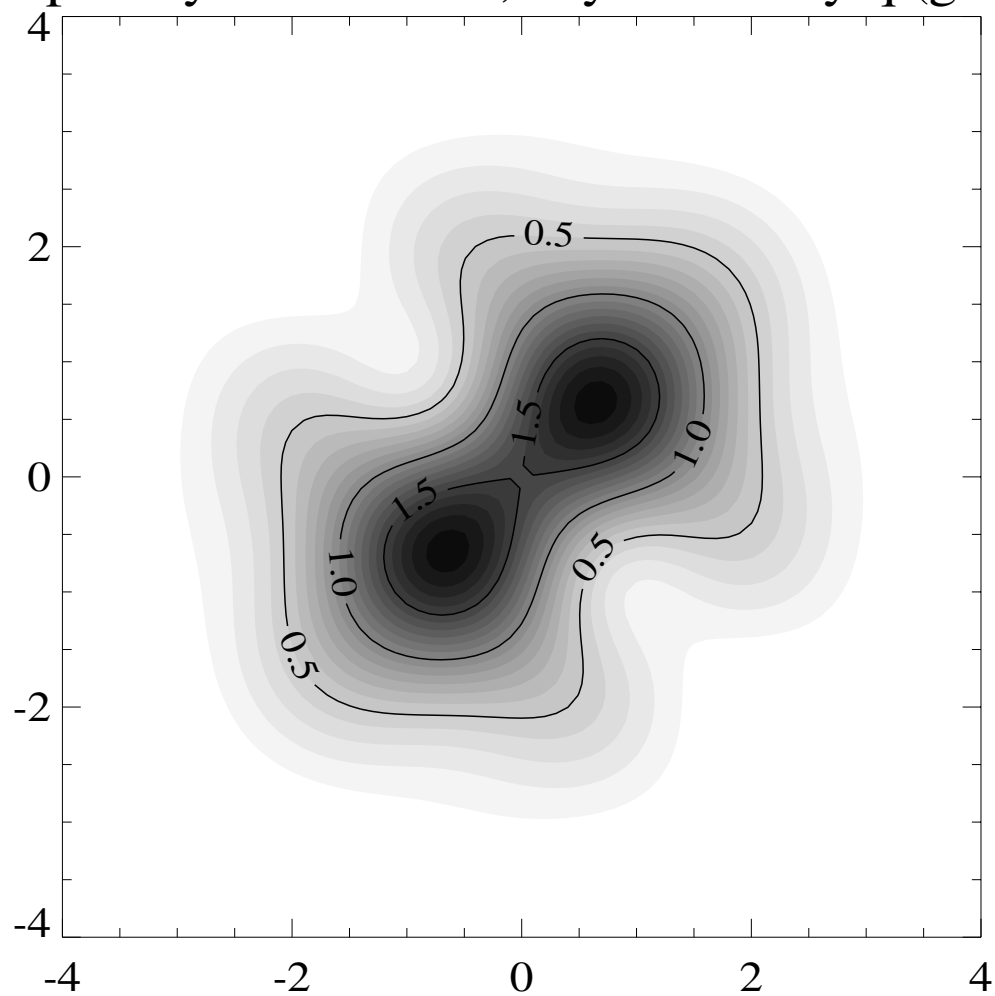
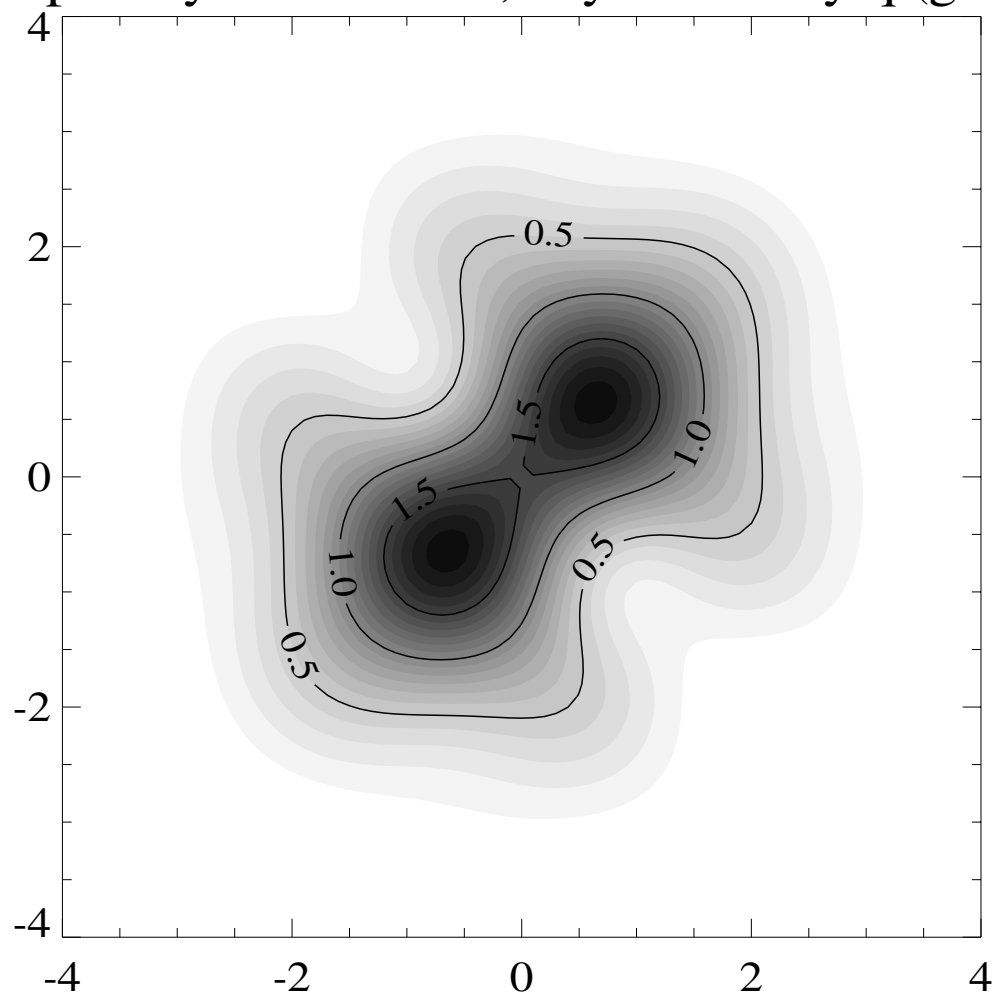


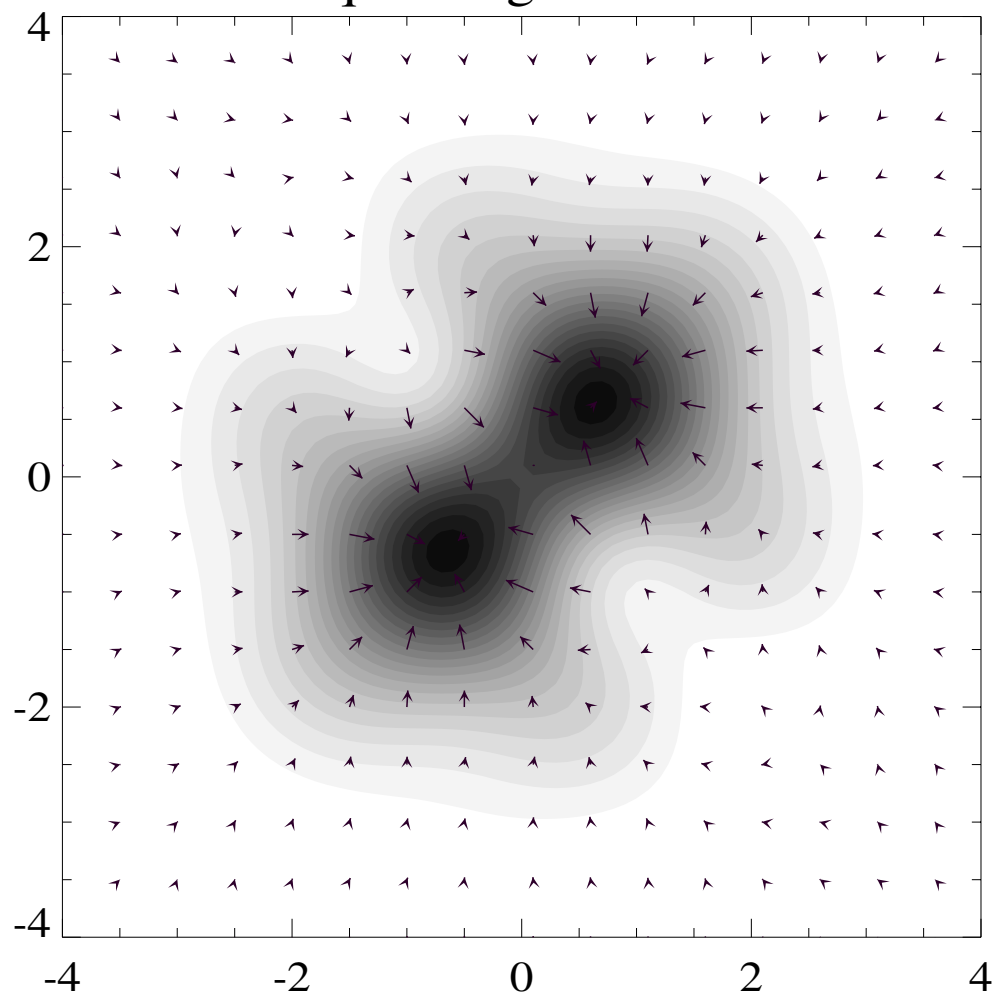
A patchy scalar field, say humidity q (g/kg)



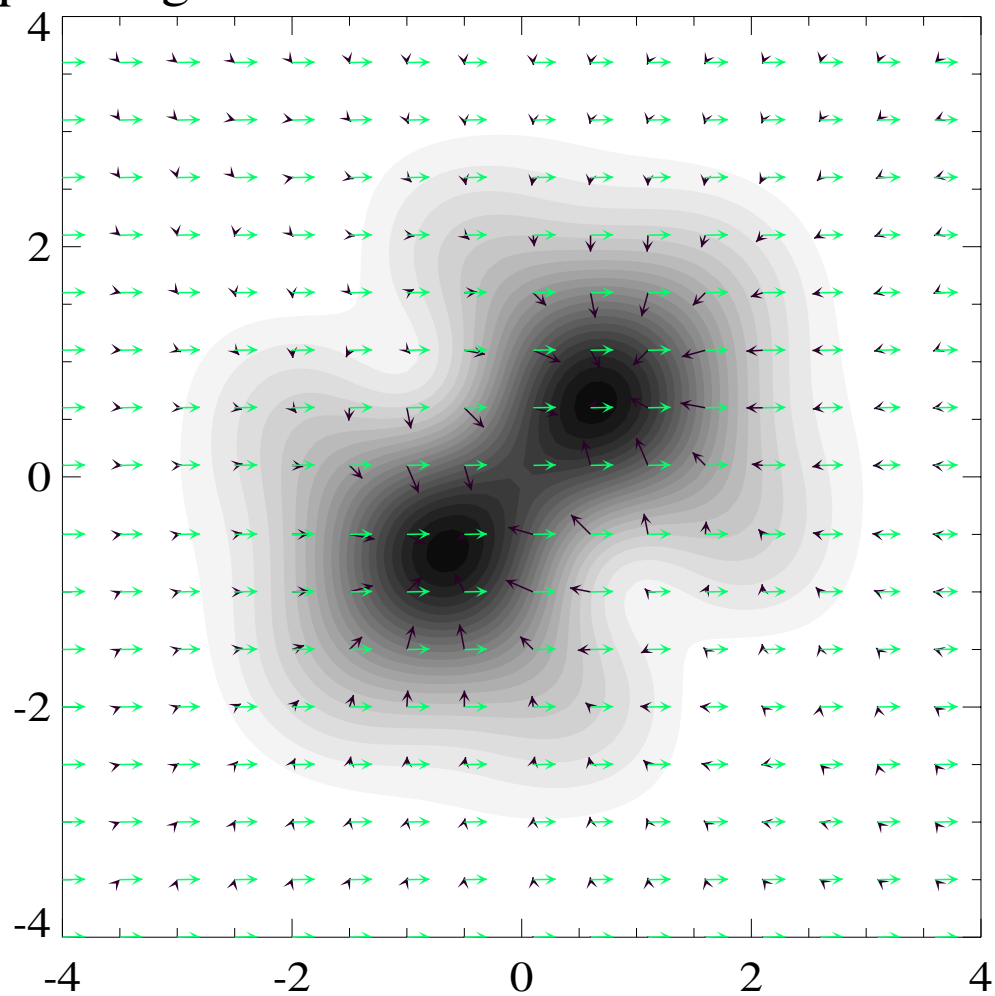
A patchy scalar field, say humidity q (g/kg)



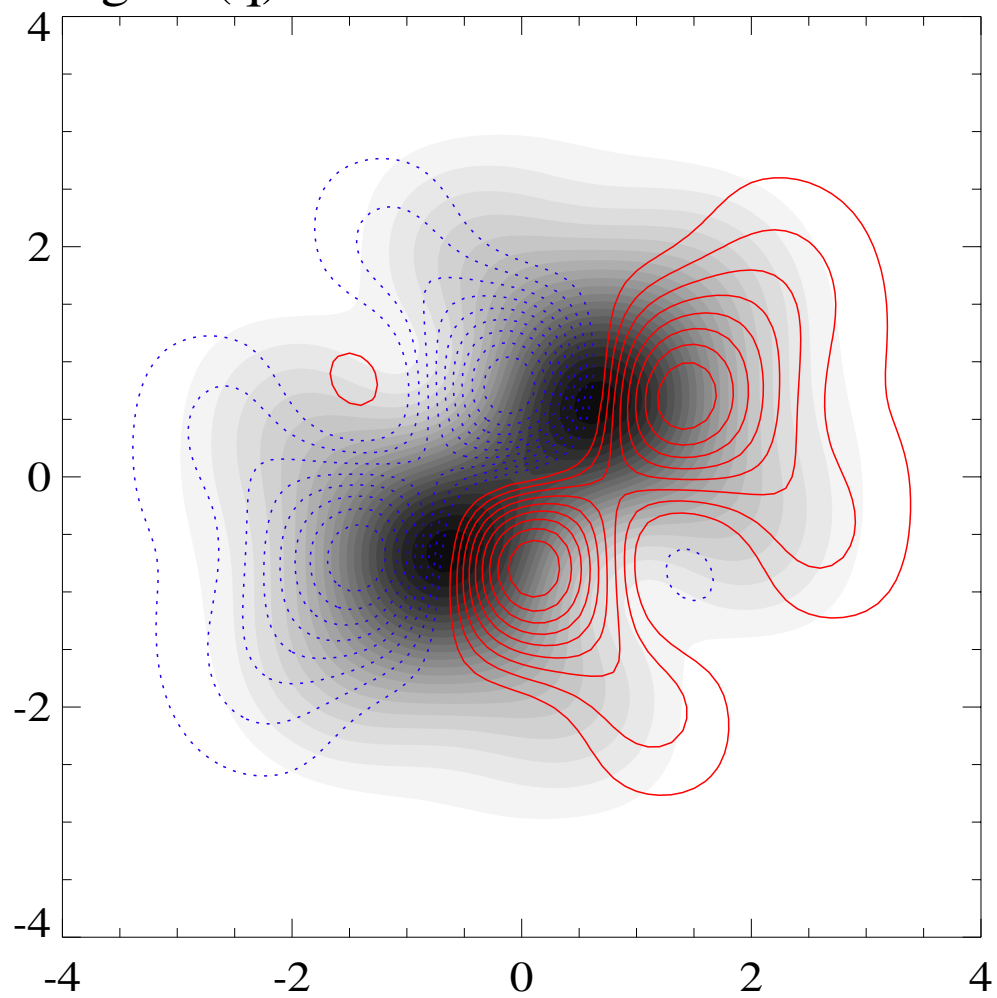
q & its gradient



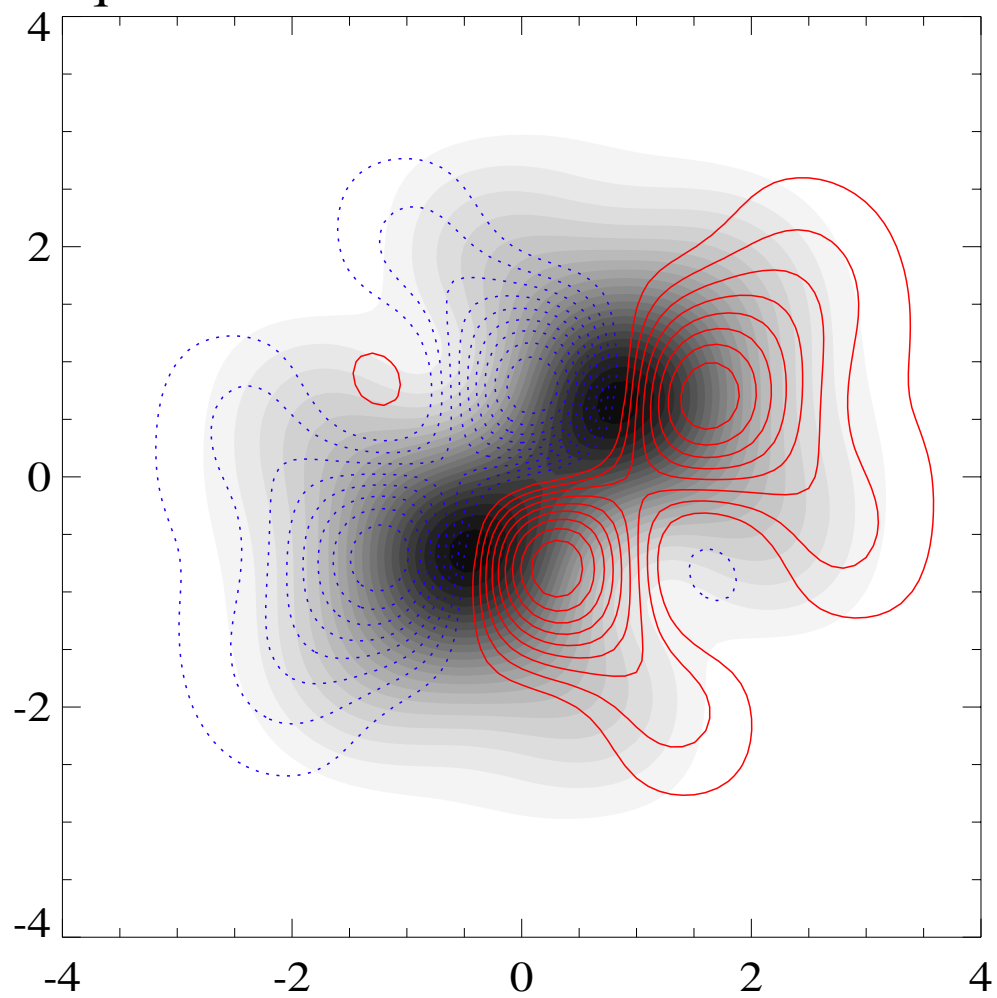
q & its gradient AND A CONSTANT WIND



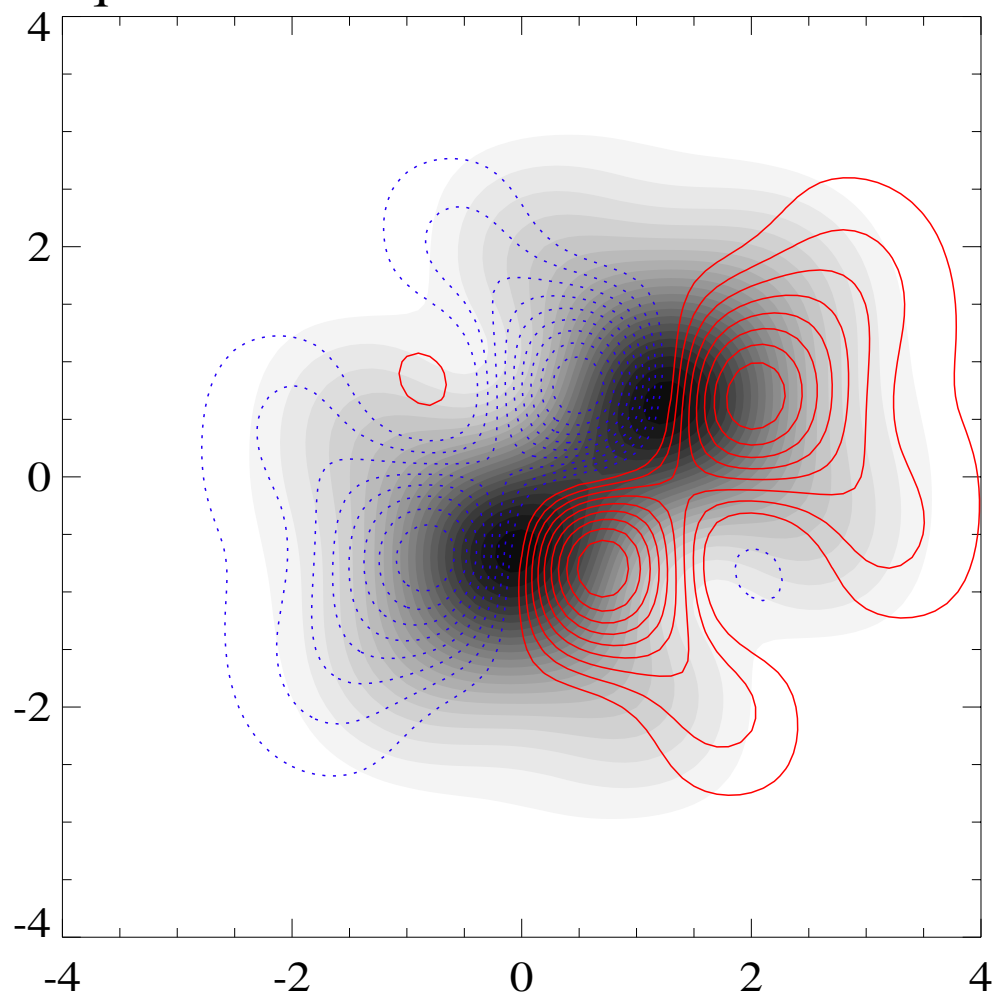
$-\mathbf{U} \cdot \text{grad}(\mathbf{q}) = \text{ADVECTIVE TENDENCY}$

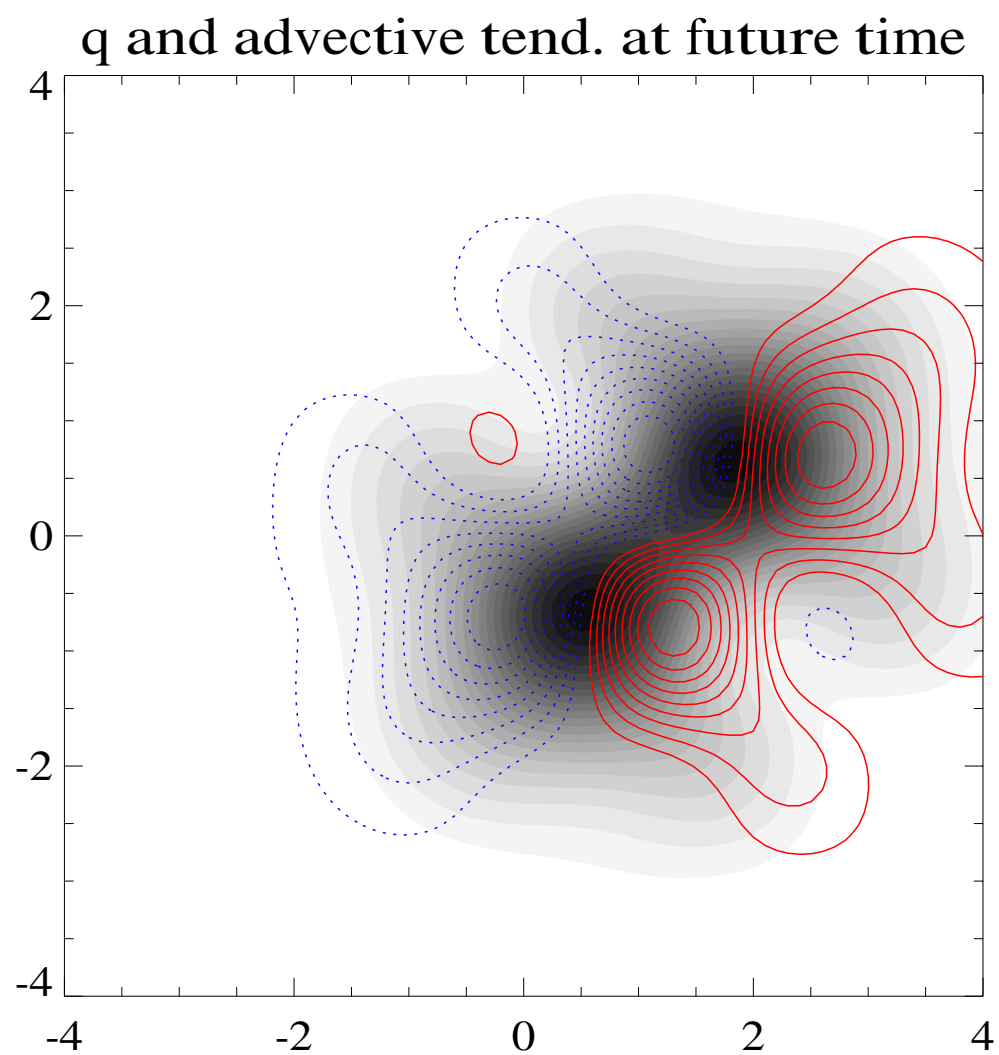


q and advective tend. at future time



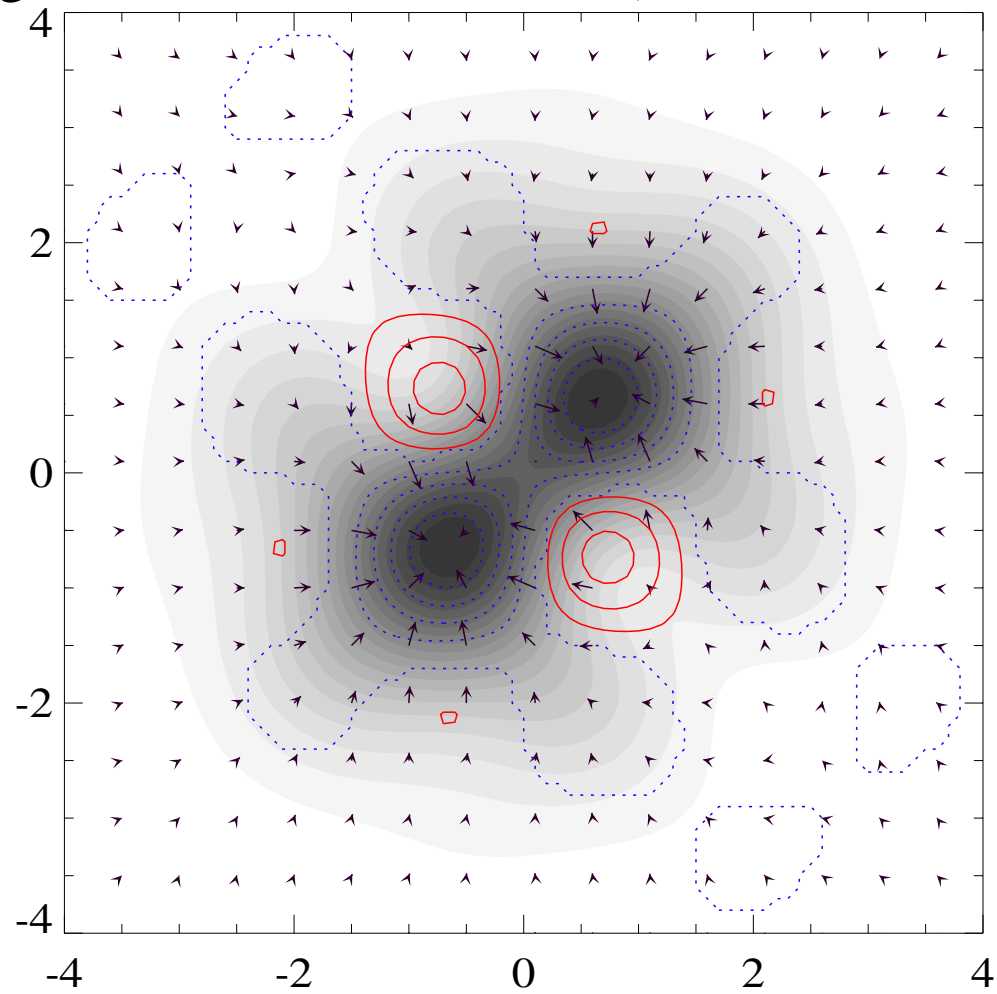
q and advective tend. at future time



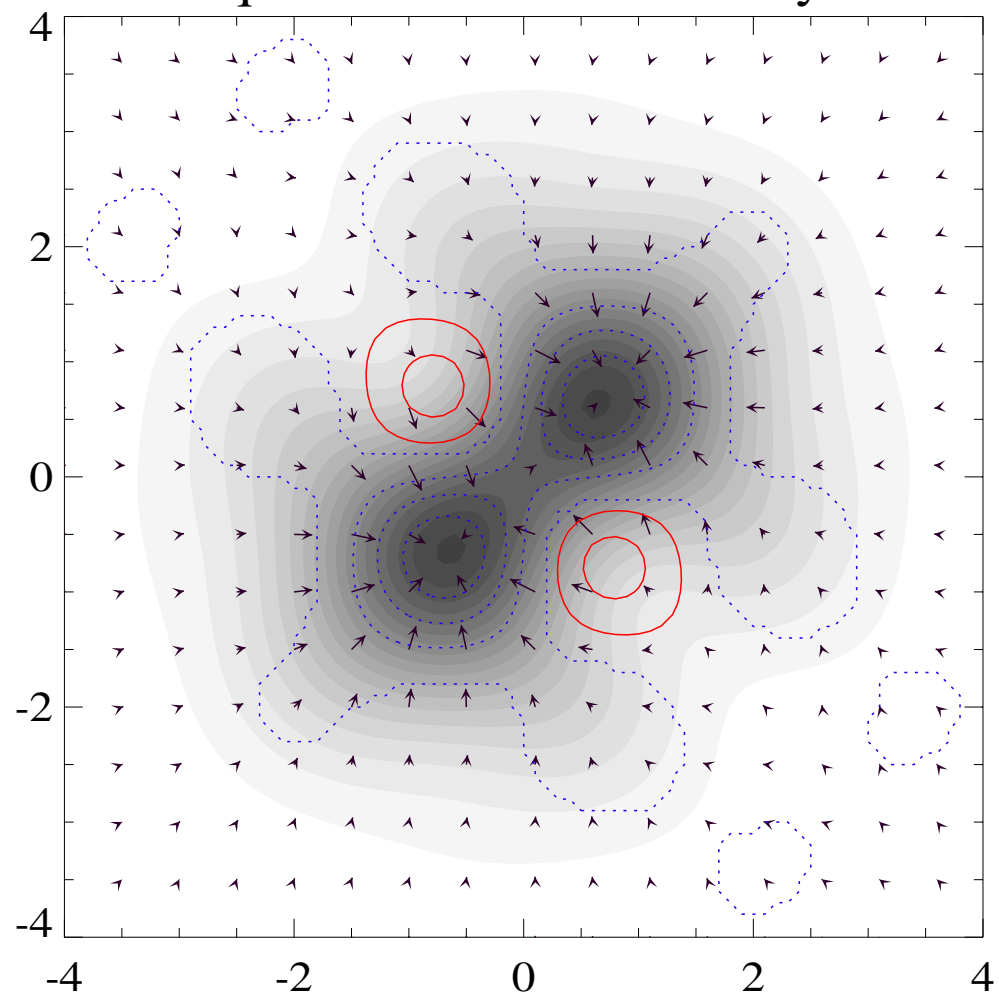


Next:
diffusion
(back to page 2)

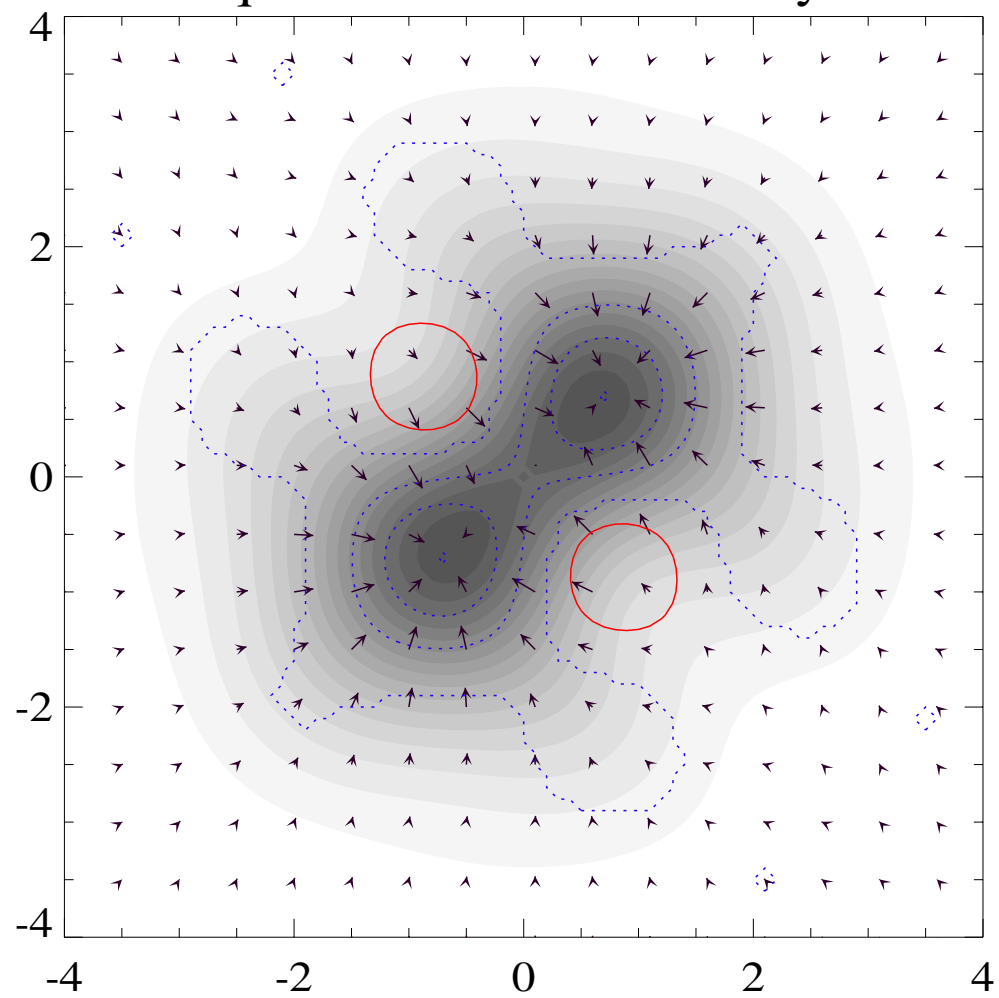
q, gradient & LAPLACIAN (diffusive tendency)



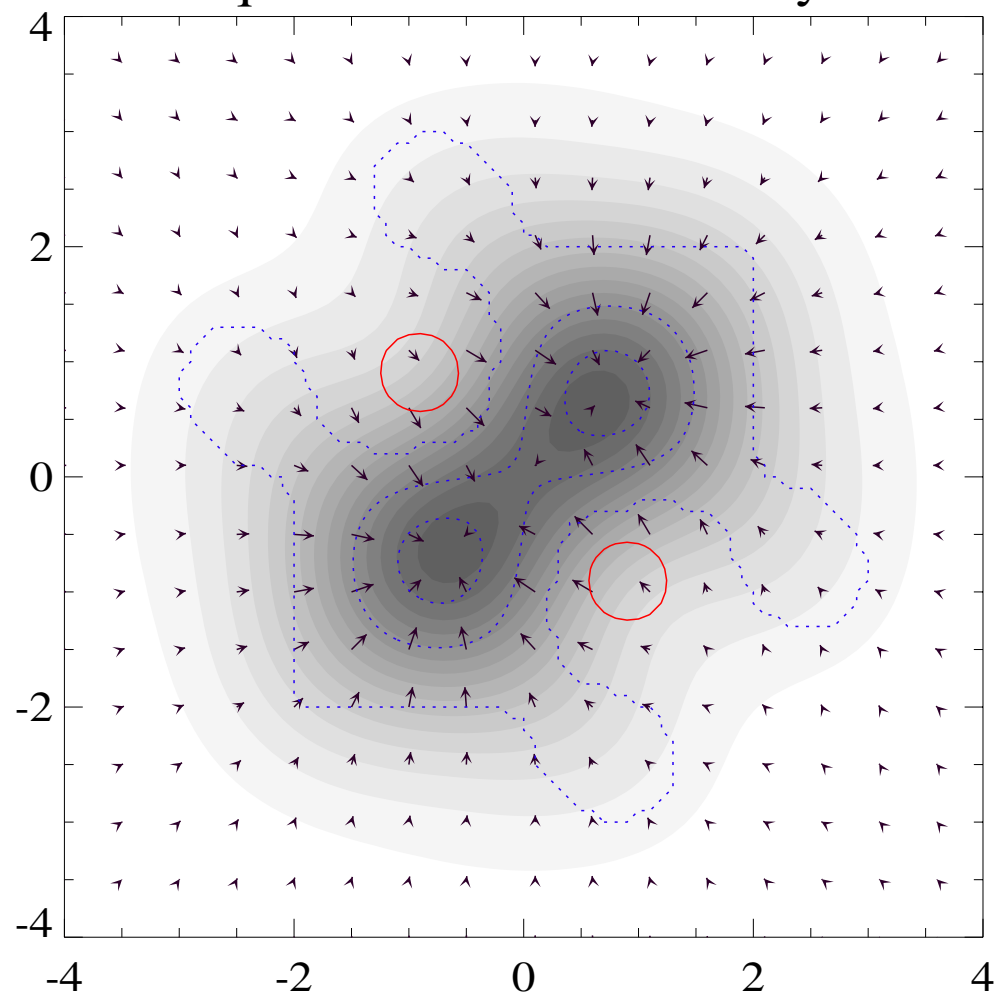
q and diffusive tendency



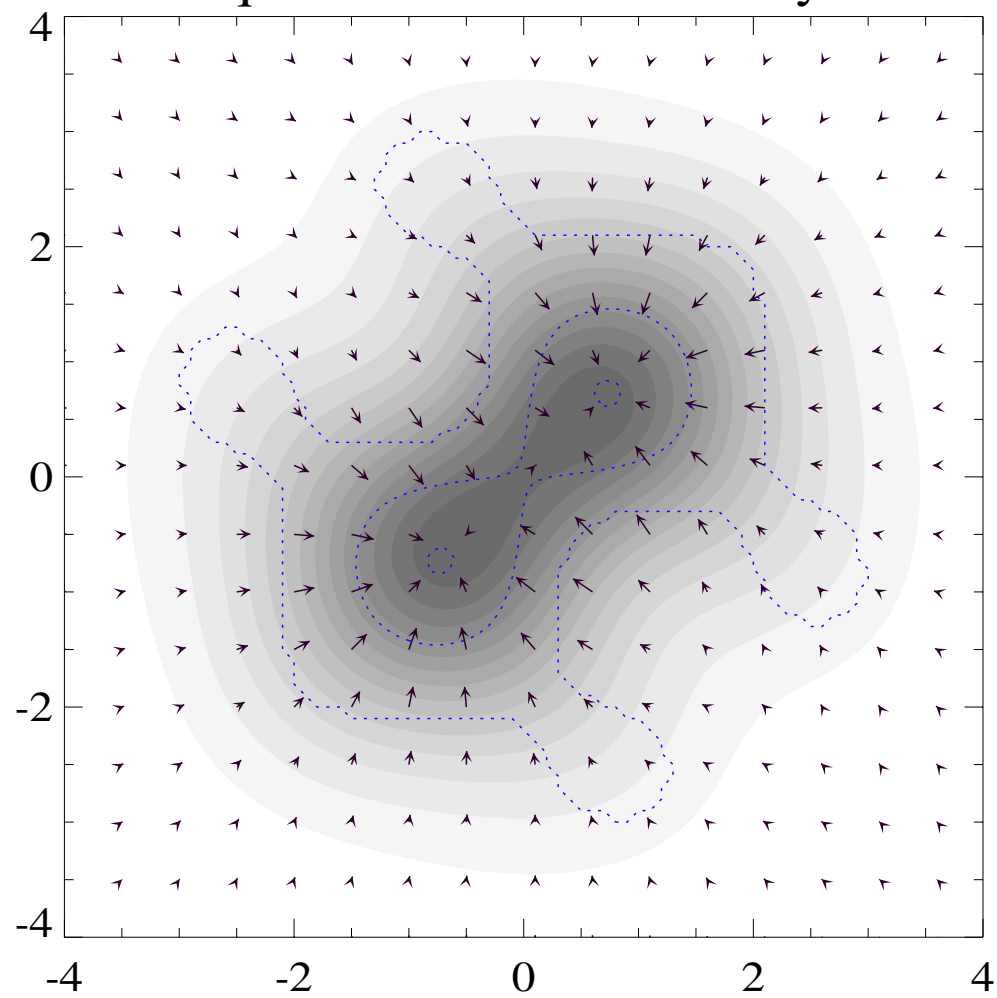
q and diffusive tendency



q and diffusive tendency



q and diffusive tendency



q and diffusive tendency

