

If we rewrite 9-1=x (Specific Volume) da = a divc Since $d = \partial + c \cdot grad$ At ∂t Eulerian time derivative

Material derivative The equation of continuity in local from Can be written as dP = - pdivc ids + c. grads = - gdivc 35 = -9divc - c.grad9 using vector identity ·X. divfC = pdivc + c.gradp 39 = -divpc

