z-p Isomorphism

Ocean (z coordinates)	$z \leftrightarrow p$	Atmosphere (p coordinates)
$d_t\underline{v} + f \times \underline{v} + \underline{\nabla}_z P = \underline{F}$	$P \leftrightarrow \Phi$	$d_t\underline{v} + f \times \underline{v} + \underline{\nabla}_p \Phi = \underline{F}$
$g\rho + \partial_z P = 0$	$\rho \leftrightarrow \alpha$	$\alpha + \partial_p \Phi = 0$
$\underline{\nabla}_h \cdot \underline{v} + \partial_z w = 0$	$w \leftrightarrow \omega$	$\underline{\nabla}_p \cdot \underline{v} + \partial_p \omega = 0$
$d_t\theta = Q$	θ	$d_t\theta = Q$
$d_t s = S$	$s \leftrightarrow q$	$d_t q = S$
$\partial_t \eta + \underline{\nabla} \cdot (\eta + H)\underline{v} = P\text{-}E$	$\eta + H \leftrightarrow p_s$	$\partial_t p_s + \underline{\nabla} \cdot p_s \underline{v} = 0$