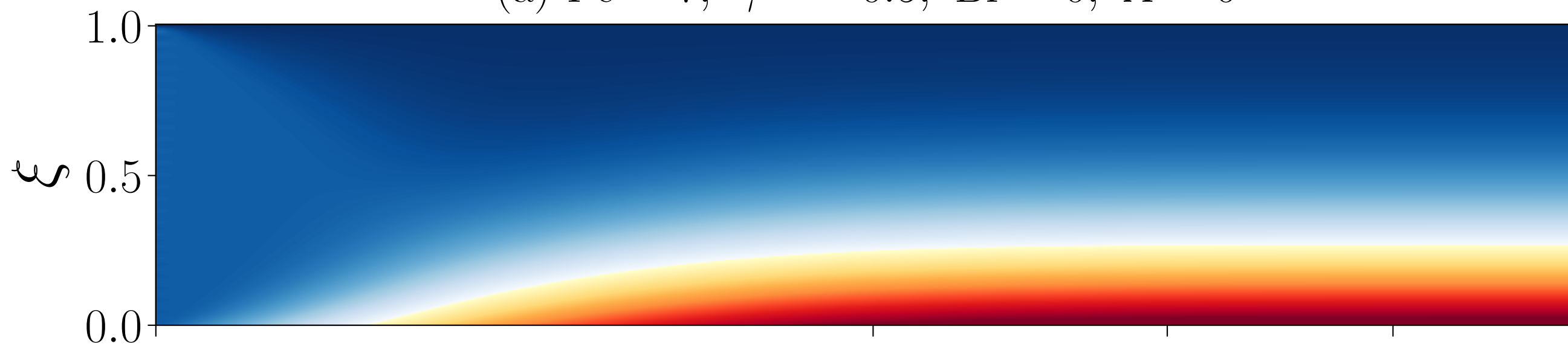
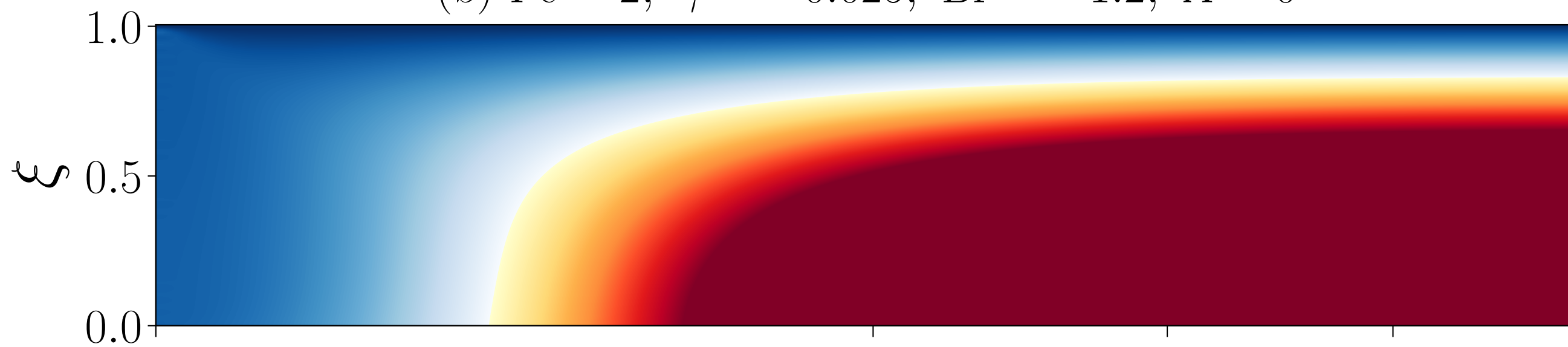


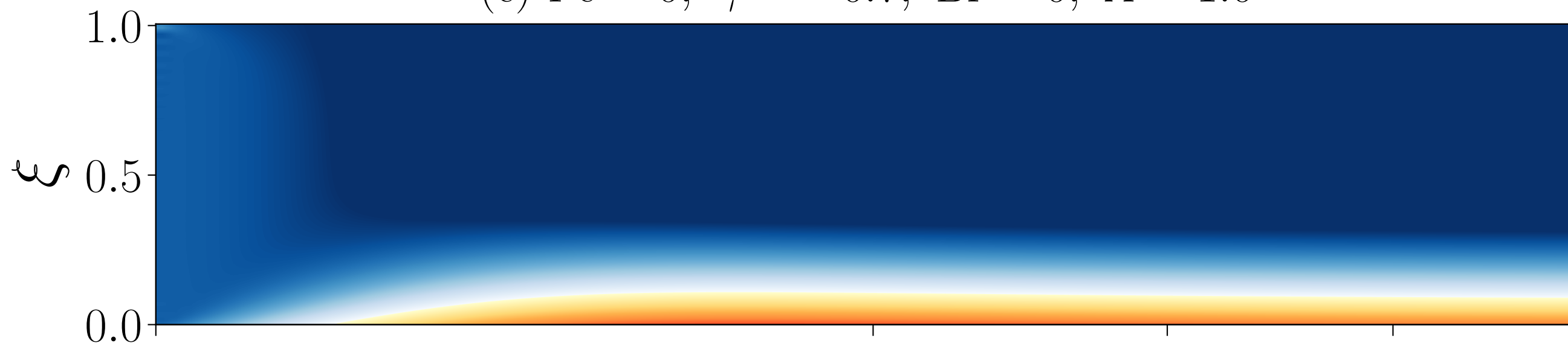
(a)  $Pe = 7, \gamma = -0.5, Br = 0, \Lambda = 0$



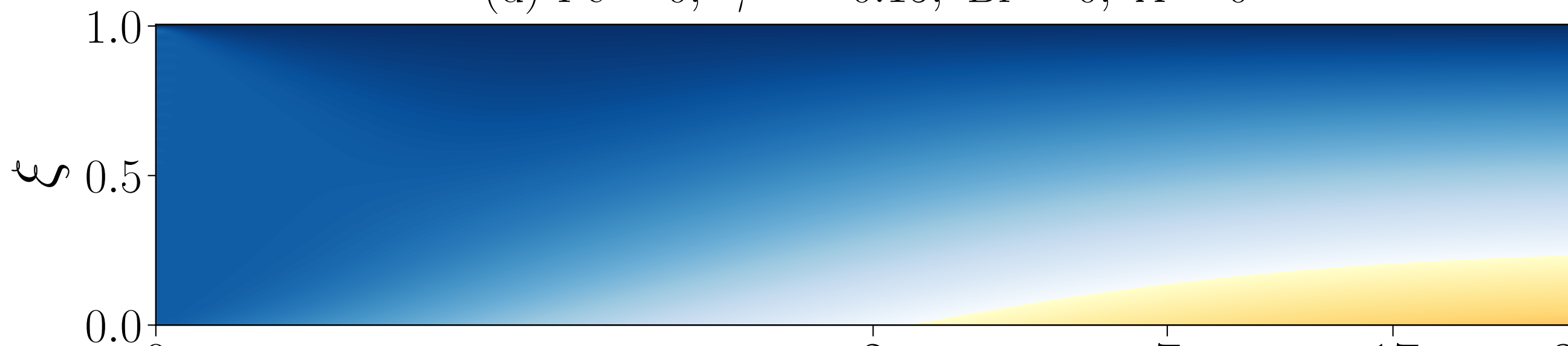
(b)  $Pe = 2, \gamma = -0.025, Br = -1.2, \Lambda = 0$



(c)  $Pe = 0, \gamma = -0.7, Br = 0, \Lambda = 1.0$



(d)  $Pe = 0, \gamma = -0.15, Br = 0, \Lambda = 0$



Time (kyr)

$\theta$  ( $^{\circ}C$ )