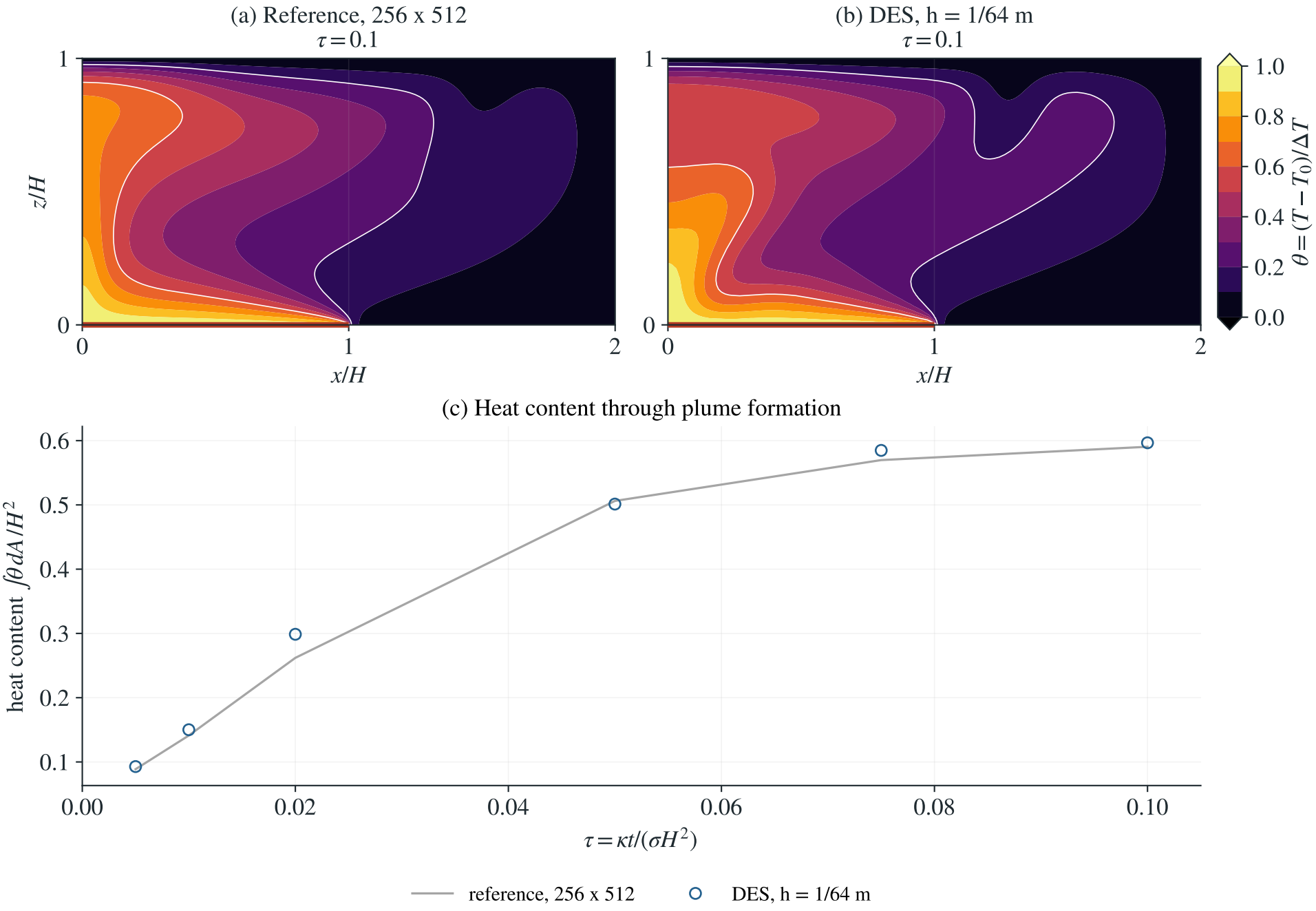

(a) Reference, 256 x 512
$\tau = 0.1$
(b) DES, h = 1/64 m
$\tau = 0.1$
z/H
x/H
$\theta = (T - T_0)/\Delta T$
(c) Heat content through plume formation
heat content $\int \theta dA/H^2$
$\tau = \kappa t/(\sigma H^2)$
reference, 256 x 512
DES, h = 1/64 m