Re = 100

Re = 500

Re = 1000

Re = 1050

Wavy Rolls

Intermittent Rolls

Shear flow turbulence

Ra = 10000

(a)

(b)

(c)

(d)

Ra = 5000

(e)

(f)

(g)

(h)

Longitudinal Rolls

Ra = 2000

(i)

(j)

(k)

(l)

$\theta_{y=0}$

$w_{y=0}/W_c$

$f(w|_{y=0}/W_c, \theta|_{y=0})$