Testing $\omega \in [0,2]$:

ω	convergence	stability	time
0	no	yes	26 seconds
0.5	no	yes	2+ minutes
1	yes	yes	20 seconds
1.5	yes	yes	14 seconds
2	no	no	19 seconds

Testing constant δt :

δt	convergence	stability
0.05	no	no
0.01	no	no
0.008	no	no
0.0075	yes	yes
< 0.0075	yes	yes

Theoretical δt calculated: < 0.01, but without $|u_{max}|$ and $|v_{max}|$ conditions included.

Testing U[imax/2][7*jmax/8] at t = 100 for different imax, jmax, with $\delta t = 0.05$:

imax = jmax	$U[imax/2][7*jmax/8] \to \infty$
16	no
32	yes
64	yes
128	yes
256	yes

Testing U[imax/2][7*jmax/8] at t = 100 with adaptive δt :

imax = jmax	$U[\max/2][7*\max/8] \to \infty$
16	no
32	no
64	no
128	no
256	no