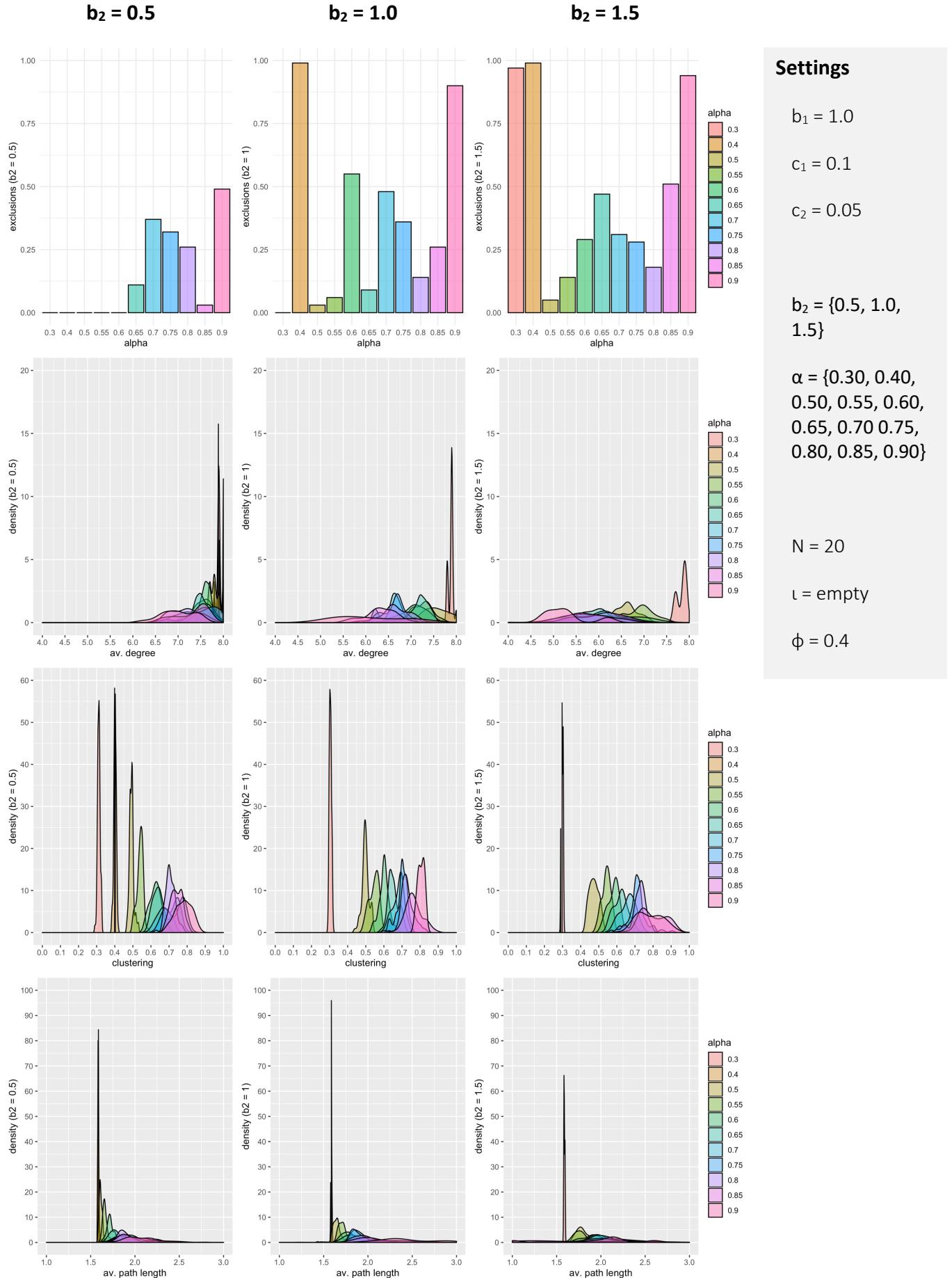
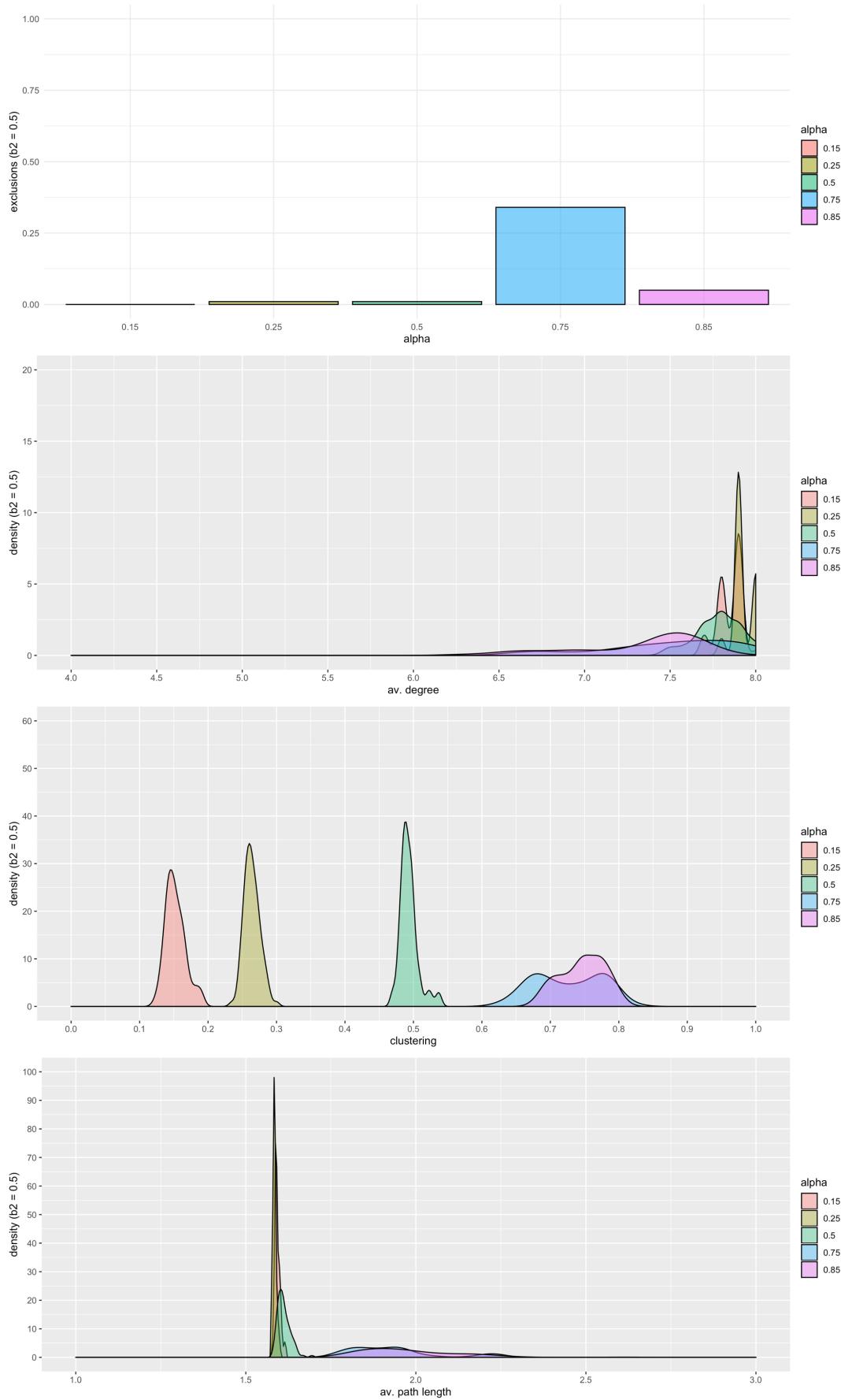


Finding b_2 and upper bound for α for 3 conditions (RND, SW_w, SW_s)



Finding α for 3 conditions (RND, SW_w, SW_s)



Settings

$b_1 = 1.0$

$c_1 = 0.1$

$c_2 = 0.05$

$b_2 = 0.5$

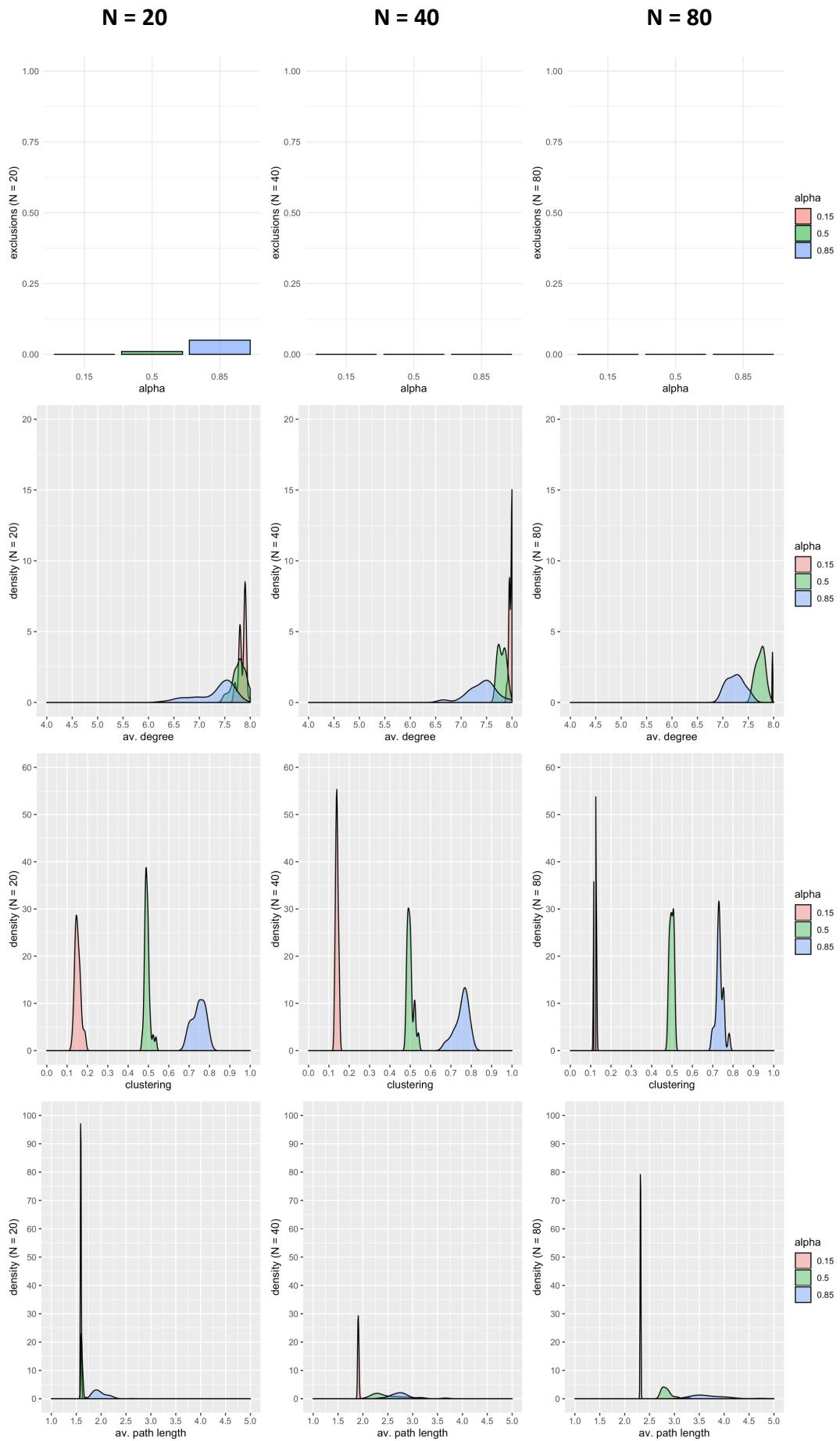
$\alpha = \{0.15, 0.25, 0.50, 0.75, 0.85\}$

$N = 20$

$\iota = \text{empty}$

$\phi = 0.4$

Comparison of conditions (RND, SW_w, SW_s) over network sizes



Settings

$b_1 = 1.0$

$c_1 = 0.1$

$c_2 = 0.05$

$b_2 = 0.5$

$\alpha = \{0.15, 0.50, 0.85\}$

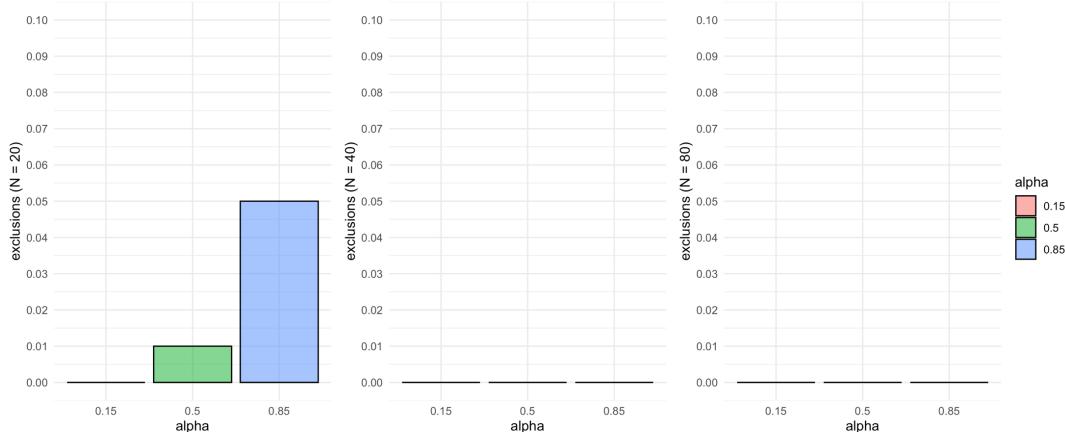
$N = \{20, 40, 80\}$

$\iota = \text{empty}$

$\phi = 0.4$

Comparison of conditions (RND, SW_w, SW_s) over network sizes (rescaled)

N = 20



Settings

$$b_1 = 1.0$$

$$c_1 = 0.1$$

$$c_2 = 0.05$$

$$\alpha = \{0.15, 0.50, 0.85\}$$

$$N = \{20, 40, 80\}$$

$\ell = \text{empty}$

$$\phi = 0.4$$

Network properties of NunnerBuskens across different conditions

condition	b_1	c_1	c_2	b_2	α	N	ι	ϕ	simulations	exclusions	av. degree	clustering	av. path length
RND	1.00	0.10	0.05	0.50	0.15	20	empty	0.40	100	0.00	7.85 (0.07)	0.15 (0.01)	1.59 (0.01)
					0.25				100	0.01	7.92 (0.06)	0.26 (0.01)	1.58 (0.00)
SW _w					0.50				100	0.01	7.79 (0.13)	0.49 (0.01)	1.61 (0.02)
					0.75				100	0.34	7.50 (0.39)	0.73 (0.05)	1.93 (0.13)
SW _s					0.85				100	0.05	7.33 (0.37)	0.75 (0.03)	1.98 (0.14)
					0.15	40			20	0.00	7.98 (0.03)	0.14 (0.01)	1.91 (0.01)
SW _w					0.50				20	0.00	7.80 (0.08)	0.50 (0.02)	2.45 (0.25)
					0.85				20	0.00	7.40 (0.29)	0.75 (0.03)	2.80 (0.28)
RND					0.15	80			20	0.00	8.00 (0.01)	0.12 (0.00)	2.32 (0.01)
					0.50				20	0.00	7.74 (0.09)	0.50 (0.01)	2.86 (0.13)
SW _s					0.85				20	0.00	7.25 (0.17)	0.73 (0.02)	3.70 (0.35)

Av. degrees of NunnerBuskens conditions in CIDM

condition (av. degree)	α	β	c	μ	σ	γ	$r_\sigma = r_\pi$	N	ι	ϕ	τ	simulations	exclusions	av. degree	clustering	attack rate	duration
RND (7.85)	10	8	9	1.5	2	0.1	0.5	34	empty	0.4	10	40	0.00	7.89 (0.25)	0.01 (0.01)	99.78 (0.78)	22.75 (3.17)
SW _w (7.79)								33				40	0.00	7.74 (0.21)	0.01 (0.01)	97.42 (15.32)	23.00 (3.86)
SW _s (7.33)								30				40	0.00	7.29 (0.27)	0.01 (0.01)	99.92 (0.53)	23.33 (3.44)
RND (7.85)				10		1.0	34					40	0.00	7.93 (0.23)	0.01 (0.01)	100.00 (0.00)	21.93 (2.78)
SW _w (7.79)								33				40	0.00	7.79 (0.23)	0.00 (0.01)	97.50 (15.33)	22.68 (3.58)
SW _s (7.33)								30				40	0.00	7.36 (0.25)	0.01 (0.01)	97.50 (15.28)	22.55 (3.69)
RND (7.85)				50		1.5	34					40	0.00	7.95 (0.21)	0.01 (0.01)	55.15 (34.99)	22.70 (7.46)
SW _w (7.79)								33				40	0.00	7.75 (0.21)	0.01 (0.01)	58.48 (34.37)	22.08 (7.60)
SW _s (7.33)								30				40	0.00	7.30 (0.22)	0.01 (0.01)	32.33 (30.75)	17.43 (6.74)
RND (7.85)	2		2		0.5	34						40	0.00	7.93 (0.20)	0.01 (0.00)	81.84 (36.87)	22.93 (7.56)
SW _w (7.79)								33				40	0.00	7.77 (0.25)	0.01 (0.01)	84.62 (34.16)	23.13 (6.51)
SW _s (7.33)								30				40	0.00	7.31 (0.24)	0.01 (0.01)	79.42 (37.76)	23.48 (7.06)
RND (7.85)				10		1.0	34					40	0.00	7.93 (0.24)	0.01 (0.01)	73.60 (39.11)	22.38 (7.68)
SW _w (7.79)								33				40	0.00	7.72 (0.19)	0.01 (0.01)	67.05 (39.21)	23.75 (8.31)
SW _s (7.33)								30				40	0.00	7.28 (0.20)	0.01 (0.01)	66.67 (32.40)	25.48 (8.49)
RND (7.85)				50		1.5	34					40	0.00	7.89 (0.22)	0.01 (0.01)	61.10 (30.49)	22.13 (5.99)
SW _w (7.79)								33				40	0.00	7.79 (0.25)	0.01 (0.01)	61.52 (33.26)	23.03 (7.37)
SW _s (7.33)								30				40	0.00	7.32 (0.29)	0.01 (0.01)	50.00 (32.56)	20.90 (6.50)