

表 3.1 由積雲參數法 (CPs) 與微物理參數法 (MPs) 組成之 16 種降水物理過程參數組合。

MPs \ CPs	Kessler (1)	Lin et al. (2)	WSM3 (3)	WSM6 (6)
Kain-Fritsch (KF=1)	11	12	13	16
Betts-Miller-Janjic (BMJ=2)	21	22	23	26
Grell-Devenyi (Grell=3)	31	32	33	36
New-Grell (N.Grell=5)	51	52	53	56



表 4.1 辛樂克及薔蜜颱風在第 24、48、72 及 96 小時出現最小平均路徑誤差次數及相對百分比表。次數最高者以綠色示之、次者以黃色示之、再次者以紅色示之。

Sinlaku	run11	run12	run13	run16	run21	run22	run23	run26	run31	run32	run33	run36	run51	run52	run53	run56
times	5	7	24	9	2	5	2	7	1	2	4	5	1	0	5	1
total	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72
total %	7%	10%	33%	13%	3%	7%	3%	10%	1%	3%	6%	7%	1%	0%	7%	1%
Jangmi	run11	run12	run13	run16	run21	run22	run23	run26	run31	run32	run33	run36	run51	run52	run53	run56
times	4	5	11	5	1	1	1	0	2	0	2	4	1	0	2	0
total	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
total %	13%	17%	37%	17%	3%	3%	3%	0%	7%	0%	7%	13%	3%	0%	7%	0%
Sinlaku+Jangmi	run11	run12	run13	run16	run21	run22	run23	run26	run31	run32	run33	run36	run51	run52	run53	run56
times	9	12	35	14	3	6	3	7	3	2	6	9	2	0	7	1
total	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
total %	9%	12%	34%	14%	3%	6%	3%	7%	3%	2%	6%	9%	2%	0%	7%	1%

表 5.1 未進行渦旋植入與進行渦旋植入之颱風中心海平面氣壓表（單位：hPa）。

Case	Date	JTWC	Before Bogus	After Bogus
Sinlaku	2008/09/09 0000 UTC	985	1004.3	982.3
Sinlaku	2008/09/09 1200 UTC	974	999.5	966.8
Sinlaku	2008/09/10 0000 UTC	956	995.9	954.1
Sinlaku	2008/09/10 1200 UTC	941	992.0	936.6
Sinlaku	2008/09/11 0000 UTC	929	988.5	936.7
Sinlaku	2008/09/11 1200 UTC	933	983.8	936.6
Jangmi	2008/09/24 1200 UTC	989	1004.9	985.8
Jangmi	2008/09/25 0000 UTC	982	1001.0	985.8
Jangmi	2008/09/25 1200 UTC	970	998.0	968.7
Jangmi	2008/09/26 0000 UTC	956	994.7	957.0
Jangmi	2008/09/26 1200 UTC	952	991.4	947.2
Jangmi	2008/09/27 0000 UTC	952	986.4	940.1



表 5.2 (a)~(c)使用渦旋植入後各降水物理參數法第 24、48 及 72 小時平均路徑誤差表。誤差最小者以綠色示之、次者以黃色示之、再次者以紅色示之。

(a) 24 小時

	run11b	run12b	run13b	run16b	run21b	run22b	run23b	run26b	run31b	run32b	run33b	run36b	run51b	run52b	run53b	run56b
0900b	78.5	78.5	78.5	89.5	89.5	89.5	94.3	91.3	84.8	78.7	69.9	73.7	73.7	73.7	69.9	73.7
0912b	61.8	38.4	47.2	54.3	47.2	60.9	45.7	54.3	98.8	69.5	45.7	60.9	89.7	76.2	56.6	70.8
1000b	75.9	61.6	61.6	61.6	62.3	62.3	33.2	51.9	53.1	49.1	54.3	49.1	75.9	70.6	70.6	70.6
1012b	154.9	156	135.7	135.7	154.6	175.5	133.9	154.9	103.7	103	93.4	103	134.4	135.7	103.6	134.4
1100b	123.4	134.9	127.2	124.8	103	104.7	103	123.4	139.6	112.8	112.8	112.8	134.9	155.1	140.2	147.1
1112b	102.4	71.2	46.3	74.6	92.3	52.1	42.2	72.1	84.1	42.2	42.2	46.4	97.6	72.1	40.7	52.1
2412b	193.7	168.1	193.7	182.9	183.1	183.1	183.1	179.9	207.5	189.1	199.6	199.6	252.5	245.1	248.6	248.6
2500b	91.4	91.4	77.8	91.4	70	48.2	70	61.6	92.4	92.4	85.4	84.7	79.2	79.2	88.7	98.6
2512b	115.6	91.4	126.3	94.4	84.3	77.5	84.3	77.5	69.8	84	80.6	59.4	100.4	98.4	103.4	98.4
2600b	33.3	33.3	33.4	31.4	35	45.7	45.7	56.6	33.3	31.4	33.3	33.3	33.3	53.5	38.5	38.5
2612b	83.6	82.8	82.8	72.5	76	78.5	63.6	73.6	94.1	56.4	56.4	68.3	89.4	83.6	73.3	73.3
2700b	62.4	62.4	61.5	51.2	93.2	83.7	63.6	83.7	82.7	55.9	52.4	61.2	98.1	88.5	82.7	88.5
24 h ave	98.1	89.2	89.3	88.7	90.9	88.5	80.2	90.1	95.3	80.4	77.2	79.4	104.9	102.6	93.1	99.6

(b) 48 小時

	run11b	run12b	run13b	run16b	run21b	run22b	run23b	run26b	run31b	run32b	run33b	run36b	run51b	run52b	run53b	run56b
0900b	103	111.6	83.8	100.6	123.8	113.9	112.8	103	139.7	124	112.8	113	102.2	132.9	112.8	137
0912b	85.3	84.6	116.9	85.3	45.6	32.9	30.9	46.8	106.1	104.7	69.2	94.2	93.7	106.1	84.8	98.3
1000b	226.3	194.9	185.6	194.7	123.4	150.4	102.5	145.2	124.8	52.4	71.7	75.1	163.1	185.6	169.6	185.6
1012b	269.8	237.6	211.3	227.9	241.6	242.1	191.5	242.1	229.4	232.6	206.2	252.7	259.9	245.9	218.4	250.7
1100b	184.5	200.2	103.9	213	193	150.1	121.6	142.7	233.5	81.1	60.1	116.6	234.6	224.4	120.3	234.6
1112b	121	75.1	104.5	63.3	150	32.5	71.7	37.7	161.8	34.9	87.7	30.1	135.6	55.4	24.6	60.7
2412b	204.4	188.7	196.1	196.1	296.1	211.1	205.5	271.8	249.6	222.6	191.8	245	336.5	309.2	281.7	307.3
2500b	99	66.7	100.6	78.5	234.3	147	176.2	168.9	196.2	175.4	137.2	177.1	241	191.1	190.5	212.9
2512b	93.9	23.5	24.6	38.1	241.2	245.1	274.3	259	117.7	68.3	45.7	76	126.3	63.1	83.5	79.8
2600b	135.1	143.4	166.5	137.1	211.4	258.9	265.6	276.3	153.3	150.9	173.7	183.5	162.3	190	158.7	183.5
2612b	254.8	227.9	198.1	217.9	69.5	136.7	188.9	178.1	205.8	175.8	178.4	185.3	224.4	217.9	195.8	223.7
2700b	203.4	130.8	92.8	100.2	279.2	224.4	185.2	230	269.6	123.7	96.3	151.2	346.7	240.5	171.9	240.5
48 h ave	165.0	140.4	132.1	137.7	184.1	162.1	160.6	175.1	182.3	128.9	119.2	141.7	202.2	180.2	151.1	184.6

(c) 72 小時

	run11b	run12b	run13b	run16b	run21b	run22b	run23b	run26b	run31b	run32b	run33b	run36b	run51b	run52b	run53b	run56b
0900b	127.1	84.1	111.8	84.1	242.9	131.1	130.9	135.1	226.6	235	188.3	210.5	233.4	181.6	167	196
0912b	42.2	78.7	116.9	78.7	105.1	153.2	178.9	172.3	102.5	100.5	33.3	108	60.8	112.3	68.9	108
1000b	112.9	84.2	143.3	115.8	78.4	146.9	75.3	128	10.3	59.2	23.2	90.4	90.3	202.9	115.8	192.7
1012b	262	204.2	204.2	207.2	293.6	258.8	204	235.4	245.5	262.2	145.4	301.4	305.1	364.7	241.6	355.2
1100b	318.3	233.5	199.5	218.8	256.1	172.2	131.4	192.4	371	148.1	127	161.2	390.7	390.7	255.8	416
1112b	208.1	142.4	298.4	136.2	144.3	123.8	242.9	127	253.5	71.2	174.4	53.7	265.2	101	60.2	144.6
2412b	249.3	83.7	63.6	102.1	574.5	361.3	394.3	425.4	405.6	197.8	73.3	217.6	528.5	219.8	204.1	252.1
2500b	289.6	153.9	97.9	167	400.3	344.8	386.4	408.7	312.7	137.1	126.1	137.1	373.1	160.4	160.1	172.5
2512b	250.5	138.5	61.9	150.4	510.6	520.6	546.8	564.6	226.8	180.8	144	189.3	236.9	142.7	168.5	157.8
2600b	250.2	238.8	252.1	261.3	344.7	445.7	439.9	444.3	331.6	338.1	313.5	361.1	330	432.3	380	435.3
72 h ave	211.0	144.2	155.0	152.2	295.1	265.8	273.1	283.3	248.6	173.0	134.9	183.0	281.4	230.8	182.2	243.0

表 5.3 辛樂克及薔蜜颱風渦旋植入後合計在第 24、48、72 及 96 小時出現最小誤差次數及相對百分比表。次數最高者以綠色示之、次者以黃色示之、再次者以紅色示之。表中 all 表示 24、48、72 及 96 小時累積次數及相對百分比。

bogus S+J	run11b	run12b	run13b	run16b	run21b	run22b	run23b	run26b	run31b	run32b	run33b	run36b	run51b	run52b	run53b	run56b
24h																
times	0	2	0	2	1	1	2	0	0	2	3	1	0	0	2	0
total	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
%	0%	17%	0%	17%	8%	8%	17%	0%	0%	17%	25%	8%	0%	0%	17%	0%
48h																
times	1	3	2	0	1	0	2	0	0	1	1	0	0	0	1	0
total	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
%	8%	25%	17%	0%	8%	0%	17%	0%	0%	8%	8%	0%	0%	0%	8%	0%
72h																
times	0	1	3	1	0	0	0	0	1	0	3	1	0	0	0	0
total	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
%	0%	10%	30%	10%	0%	0%	0%	0%	10%	0%	30%	10%	0%	0%	0%	0%
96h																
times	0	2	1	0	0	0	1	0	0	1	0	1	0	1	0	0
total	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
%	0%	29%	14%	0%	0%	0%	14%	0%	0%	14%	0%	14%	0%	14%	0%	0%
all																
times	1	8	6	3	2	1	5	0	1	4	7	3	0	1	3	0
total	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
%	2%	20%	15%	7%	5%	2%	12%	0%	2%	10%	17%	7%	0%	2%	7%	0%

