

# Australia Telescope Compact Array

## Schedule:- 26 Apr - 9 May

UT            14    16    18    20    22    0    2    4    6    8    10    12    14  
 AEST        0    2    4    6    8    10    12    14    16    18    20    22    24

Mon 26 Apr	NGC4945 C1224(Ott) (12mm)	ugca438	C1253(Ott)	(8/128) SFO67 (20)	C1240(Urquhart) (12mm)	EW367		
Tue 27 Apr	SFO67 (4/128) C1240 (12mm)			SFO58	C1240(Urquhart) (12mm)		C1211	
Wed 28 Apr	4u1755-33 C1211(Kaaret) (20/13)			SFO64	C1240(Urquhart) (12mm)			
Thu 29 Apr	SFO64 C1240 (12mm)		A3376	C1247(Johnston-Hollitt) (20/13)	SFO75 (4/128) C1240 (12mm)			
Fri 30 Apr	SFO75 (4/128) C1240(Urquhart) (12mm)			SFO68	C1240(Urquhart) (12mm)			
Sat 1 May	SFO68 C1240 (12mm)	Calibrators	C007(Sault) (3mm+12mm)	Calibrators	C1225(Wong) (3mm+12mm)		SFO76 (4/128) C1240 (12mm)	
Sun 2 May	SFO76 (4/128) C1240(Urquhart) (12mm)		NGC2442	C933(Ryder) (20)	Calibrators		C007(Sault) (3mm+12mm)	
Mon 3 May	Calibrators	C007(Sault) (3mm+12mm)		Reconfigure #243/Calibration				
Tue 4 May		Reconfigure #243/Calibration			Maintenance/Test			
Wed 5 May		Maintenance/Test			HD93129A C678(Benaglia) (12mm)		G337.8-0.1 C1213(Gelfand) (20/13)	
Thu 6 May	G337.8-0.1 (128/128) C1213(Gelfand) (20/13)		sn1987a	C015(Staveley-Smith) (12mm)	G355.6-0.0 (128/128) C1213 (20/13)	6C		
Fri 7 May	G355.6-0.0 (128/128) C1213(Gelfand) (20/13)		sn1987a (128/128)	C015(Staveley-Smith) (20/13+6/3)	G310.6-0.3 (128/128) C1213(Gelfand) (20/13)			
Sat 8 May	G310.6-0.3 (128/128) C1213(Gelfand) (20/13)		sn1987a (128/128)	C015(Staveley-Smith) (3)	Omega Cen (128/128) C1265(Maccarone) (6/3)			
Sun 9 May	Omega Cen (128/128) C1265(Maccarone) (6/3)	List		C890(Lovell) (12mm)	List (128/128) C890(Lovell) (12mm)			
LST		18	0	6	12			

Stations

Baselines (m)

EW367W104 W110 W113 W124 W128 W392    46,61,92,138,168,214,230,276,306,367,4041,4102,4270,4316,4408  
 6C    W0 W10 W113 W140 W182 W392    153,413,643,1056,1577,1730,1990,2143,2633,2786,3214,3857,4270,5847,6000

# Australia Telescope Compact Array

## Schedule:- 10 May - 23 May

UT            14    16    18    20    22    0    2    4    6    8    10    12    14  
 AEST        0    2    4    6    8    10    12    14    16    18    20    22    24

Mon 10 May	List C890(Lovell) (12mm)	(128/128) List	C890(Lovell) (12mm)	(128/128) List	PSRB1259-63 C326(Johnston) (20/13+6/3)	C890 (12mm)	6C
Tue 11 May	List	C890(Lovell) (12mm)	(128/128) List	C890(Lovell) (12mm)	(128/128)	C890 (12mm)	
Wed 12 May	C890 (12mm)	ic5063	C1300(Morganti) (12mm)	(128/128) List	C890(Lovell) (12mm)	C890 (12mm)	
Thu 13 May	List C890 (12mm)	A8931	C1276(Ferrari) (20/13)	(128/128) List	C890(Lovell) (12mm)	C890 (12mm)	
Fri 14 May	List C890(Lovell) (12mm)	(128/128)		(128/128) List	C890(Lovell) (12mm)	C890 (12mm)	
Sat 15 May	List C890(Lovell) (12mm)	(128/128)		MT	Red MSX	C1088(Hoare) (6/3)	
Sun 16 May	Red MSX	(28/128)		Red MSX	C1088(Hoare) (6/3)	C1088(Hoare) (6/3)	
Mon 17 May	Red MSX	(28/128)	Maintenance/Test Remove mm receiver	Red MSX	C1088(Hoare) (6/3)	C1088(Hoare) (6/3)	
Tue 18 May	Red MSX	(28/128)		Red MSX	C1088(Hoare) (6/3)	C1088(Hoare) (6/3)	
Wed 19 May	Red MSX	(28/128)		Red MSX	C1088(Hoare) (6/3)	C1088(Hoare) (6/3)	
Thu 20 May	Red MSX	(28/128)		Reconfigure #244/Calibration	C1088(Hoare) (6/3)	C1088(Hoare) (6/3)	
Fri 21 May				List	Reconfigure #244/Calibration	C1336(Meyer) (4)	
Sat 22 May	List				C1336(Meyer) (20)	C1336(Meyer) (20)	
Sun 23 May	List				C1336(Meyer) (20)	C1336(Meyer) (20)	
LST	18	0	6	12			1.5B

Stations

Baselines (m)

6C    W0 W10 W113 W140 W182 W392    153,413,643,1056,1577,1730,1990,2143,2633,2786,3214,3857,4270,5847,6000  
 1.5B    W111 W113 W163 W182 W195 W392    31,199,291,490,765,796,1056,1087,1255,1286,3015,3214,3505,4270,4301

# Australia Telescope Compact Array

Schedule:- 24 May - 6 Jun

UT 14 16 18 20 22 0 2 4 6 8 10 12 14  
 AEST 0 2 4 6 8 10 12 14 16 18 20 22 24

Mon 24 May	List												(4)	1.5B	
													(20)		
Tue 25 May	List												(4)		
													(20)		
Wed 26 May	List	(4)	lsbg f300-026					(4/128)	List				(4)		
	C1336(Meyer)	(20)											(20)		
													(20)		
Thu 27 May	C1336	eso189-G7				(8)	ngc3717						(8)		
													(20)		
													(20)		
Fri 28 May	C1272	ngc7531				(8)	ngc4965						(4/128)		
													(20)		
Sat 29 May	C1304	ngc4965	eso-lv1530170			(8/128)	ic4366						(4/128)		
		(20)											(20)		
Sun 30 May	C1304(Buyle)	ic4366 (4/128)	B0114-476			(128/128)							(8)		
		(20)											(20)		
Mon 31 May	C1272(Gentile)	ngc6925			(8)	eso488-g49				(8)	M16		(4)		
													(20)		
Tue 1 Jun	C1298(Matthews)	M16		(4)	ic2147			(4/128)	XRB			(128/128)			
													(20)		
Wed 2 Jun	C1199(Corbel)	XRB		(128/128)									(20/13+6/3)		
Thu 3 Jun															
Fri 4 Jun															
Sat 5 Jun	GEMS					(8/128)									
													(20)		
Sun 6 Jun	GEMS					(8/128)							(4/128)		
													(20)		
LST	18				0				6				12		

Stations

Baselines (m)

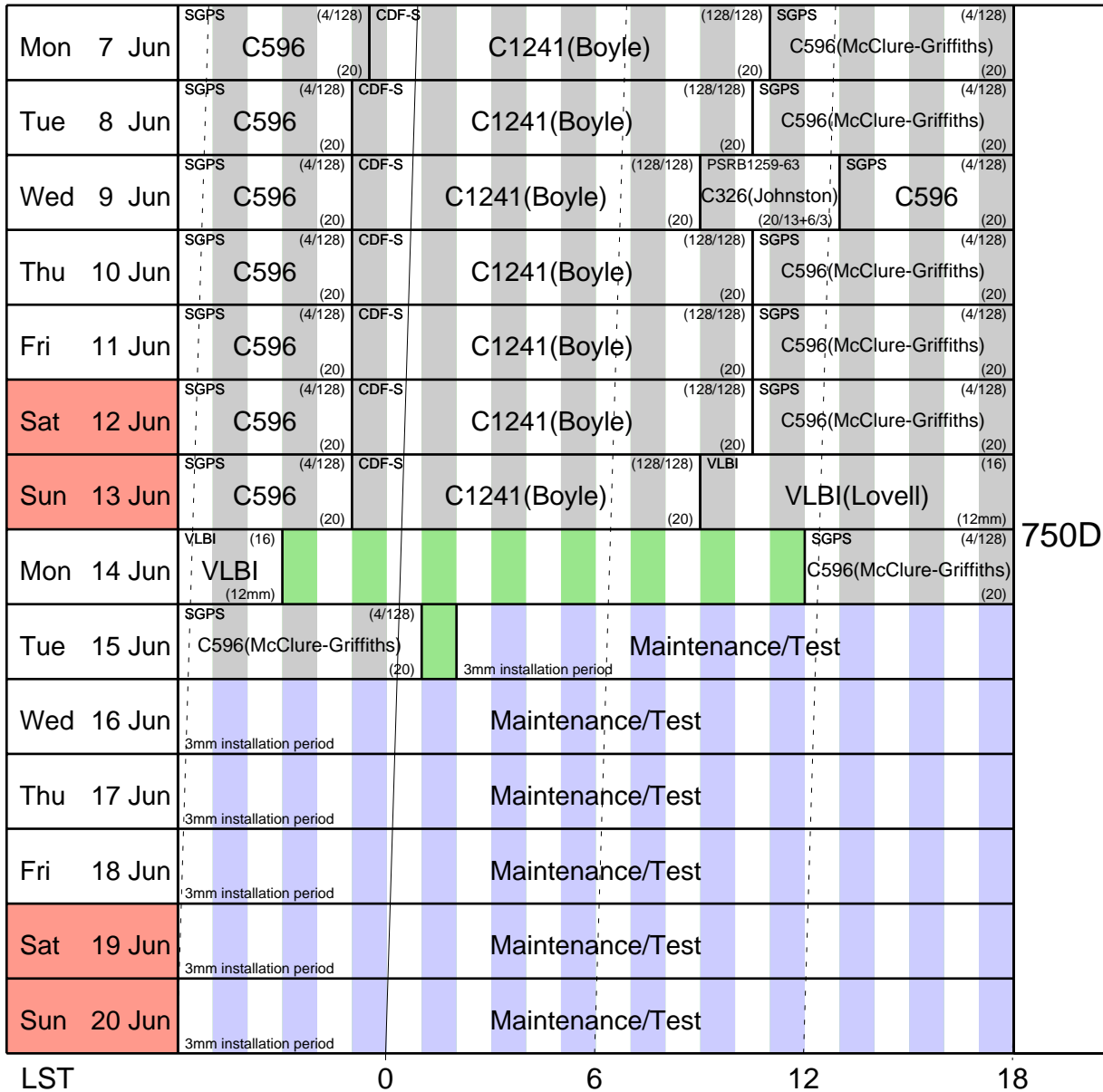
1.5B W111 W113 W163 W182 W195 W392 31,199,291,490,765,796,1056,1087,1255,1286,3015,3214,3505,4270,4301

750D W100 W102 W128 W140 W147 W392 31,107,184,291,398,429,582,612,689,719,3750,3857,4041,4439,4469

# Australia Telescope Compact Array

Schedule:- 7 Jun - 20 Jun

UT 14 16 18 20 22 0 2 4 6 8 10 12 14  
 AEST 0 2 4 6 8 10 12 14 16 18 20 22 24



750D

Stations

Baselines (m)

750D W100 W102 W128 W140 W147 W392 31,107,184,291,398,429,582,612,689,719,3750,3857,4041,4439,4469

# Australia Telescope Compact Array

Schedule:- 21 Jun - 4 Jul

UT 14 16 18 20 22 0 2 4 6 8 10 12 14  
 AEST 0 2 4 6 8 10 12 14 16 18 20 22 24

Mon 21 Jun	3mm installation period	Maintenance/Test		
Tue 22 Jun	3mm installation period	Maintenance/Test		
Wed 23 Jun	3mm installation period	Maintenance/Test		
Thu 24 Jun	3mm installation period	Maintenance/Test		
Fri 25 Jun	3mm installation period	Maintenance/Test		
Sat 26 Jun	3mm installation period	Maintenance/Test		
Sun 27 Jun	3mm installation period	Maintenance/Test		
Mon 28 Jun	3mm installation period	Maintenance/Test		750D
Tue 29 Jun	3mm installation period	Maintenance/Test		
Wed 30 Jun	3mm installation period	Maintenance/Test		
Thu 1 Jul	3mm installation period	Maintenance/Test		
Fri 2 Jul	3mm installation period	Maintenance/Test	NGC3576 (8)	C1158(Purcell) (12mm)
Sat 3 Jul	Region A	(128/128)	I12383 (8/128)	C1261(Subrahmanyam) (12mm)
Sun 4 Jul	Region B	(128/128)	I13070 (8/128)	C1261(Subrahmanyam) (12mm)
LST	0	6	12	18

Stations

Baselines (m)

750D W100 W102 W128 W140 W147 W392 31,107,184,291,398,429,582,612,689,719,3750,3857,4041,4439,4469



# Australia Telescope Compact Array

Schedule:- 19 Jul - 1 Aug

UT 14 16 18 20 22 0 2 4 6 8 10 12 14  
 AEST 0 2 4 6 8 10 12 14 16 18 20 22 24

Day	UT	AE	ST	Activity	Time	Notes
Mon	19 Jul	00:14	02:16	C1288(Gaensler)	00:20	(4/128) List
				C1293(Kaempgen)	01:03	(128/128)
				C1276(Ferrari)	01:20	A3931 (128/128) (20/13)
Tue	20 Jul	00:02	02:04	Reconfigure #247/Calibration		
Wed	21 Jul	00:04	02:06	Reconfigure #247/Calibration		
				Maintenance/Test		
Thu	22 Jul	00:06	02:08	Maintenance/Test		
				C1372(Ott)	01:12	NGC6240 (64/64)
Fri	23 Jul	00:08	02:10	C933(Ryder)	01:20	NGC2442 (8/128) NGC6240 (64/64)
				C1372(Ott)	01:12	
Sat	24 Jul	00:10	02:12	C1224(Ott)	01:12	NGC1365 (64/64) List (32)
Sun	25 Jul	00:12	02:14	C1224(Ott)	01:12	NGC1808 (64/64) List (32)
Mon	26 Jul	00:14	02:16	C1224(Ott)	01:12	NGC1808 (64/64) List (8/64)
				C1287(Longmore)	01:12	
Tue	27 Jul	00:16	02:18	C1109(McConnell)	01:06	Boomerang (128/128) List (8/64)
Wed	28 Jul	00:18	02:20	C1109(McConnell)	01:06	Boomerang (128/128) List (8/64)
Thu	29 Jul	00:20	02:22	C1109(McConnell)	01:06	Boomerang (128/128) List (8/64)
Fri	30 Jul	00:22	02:24	C1109(McConnell)	01:06	Boomerang (128/128) Galaxy (32) W49B (128/128)
				C1189(Caswell)	01:12	
				C1329	01:30	(3+12mm)
Sat	31 Jul	00:24	02:26	C1109(McConnell)	01:06	Boomerang (128/128) List (32)
Sun	1 Aug	00:26	02:28	C933(Ryder)	01:20	NGC2442 (8/128) VLBI (16)
				VLBI(Lovell)	01:12	

Stations Baselines (m)  
 6A W4 W45 W102 W173 W195 W392 337,628,872,1087,1432,1500,1959,2296,2587,2923,3015,3352,4439,5311,5939  
 H168 W100 N7 N11 W104 W111 W392 61,61,107,111,132,141,168,171,185,192,4301,4379,4381,4408,4469

# Australia Telescope Compact Array

## Schedule:- 2 Aug - 15 Aug

UT            14    16    18    20    22    0    2    4    6    8    10    12    14  
 AEST        0    2    4    6    8    10    12    14    16    18    20    22    24

Mon 2 Aug	VLBI (12mm)				ngc3256		C1372(Ott) (12mm)	(64/64)	Maint	H168	
Tue 3 Aug	Maintenance/Test <small>Wideband correlator equalisation</small>				TN0924-2201 (128/128)		C1214(Klamer) (12mm)	Arp220 (64/64)			
Wed 4 Aug	SBM03-3 (128/128)				TN0924-2201 (128/128)		C1223(Ott) (12mm)	PSRB1259-63 (20/13+6/3)	C1284 (6)		
Thu 5 Aug	B0114-476 (128/128)				TN0924-2201 (128/128)		C1284(Safouris) (6)	Oph B (8)	C1280(Friesen) (12mm)		
Fri 6 Aug	SMC (8)				TN0924-2201 (128/128)		C973(Beasley) (12mm)	Oph B (8)	C1280(Friesen) (12mm)		
Sat 7 Aug	SBM03-3 (128/128)				TN0924-2201 (128/128)		C1223(Ott) (12mm)	Oph B (8)	C1280(Friesen) (12mm)		
Sun 8 Aug	SBM03-3 (128/128)				TN0924-2201 (128/128)		C1223(Ott) (12mm)	Oph B (8)	C1280(Friesen) (12mm)		
Mon 9 Aug	SMC (8)				Reconfigure #248/Calibration						
Tue 10 Aug	Reconfigure #248/Calibration							Maintenance/Test			
Wed 11 Aug	Maintenance/Test							Survey (8000)	C1049(Ekers) (12mm)		
Thu 12 Aug	Survey (8000)	C1049(Ekers) (12mm)									
Fri 13 Aug	Survey (8000)	C1049(Ekers) (12mm)									WBCOR
Sat 14 Aug	Survey (8000)	C1049(Ekers) (12mm)									
Sun 15 Aug	Survey (8000)	C1049(Ekers) (12mm)									
LST	0	6	12	18							

Stations	Baselines (m)
H168 W100 N7 N11 W104 W111 W392	61,61,107,111,132,141,168,171,185,192,4301,4379,4381,4408,4469
WBCOR98 W102 W104 W106 W112 W392	31,31,61,61,92,92,122,122,153,214,4286,4378,4408,4439,4500



# Australia Telescope Compact Array

Schedule:- 16 Aug - 29 Aug

UT 14 16 18 20 22 0 2 4 6 8 10 12 14  
 AEST 0 2 4 6 8 10 12 14 16 18 20 22 24

Mon 16 Aug	Survey												(8000)	
													(12mm)	
Tue 17 Aug	Survey												(8000)	
													(12mm)	
Wed 18 Aug	Survey												(8000)	
													(12mm)	
Thu 19 Aug	Survey												(8000)	
													(12mm)	
Fri 20 Aug	Survey												(8000)	
													(12mm)	
Sat 21 Aug	Survey												(8000)	
													(12mm)	
Sun 22 Aug	Survey												(8000)	
													(12mm)	
Mon 23 Aug	Survey												(8000)	
													(12mm)	
Tue 24 Aug	Survey												(8000)	
													(12mm)	
Wed 25 Aug	Survey												(8000)	
													(12mm)	
Thu 26 Aug	Survey												(8000)	
													(12mm)	
Fri 27 Aug	Survey												(8000)	
													(12mm)	
Sat 28 Aug	Survey												(8000)	
													(12mm)	
Sun 29 Aug	Survey												(8000)	
													(12mm)	

WBCOR

LST 0 6 12 18

Stations

Baselines (m)

WBCOR98 W102 W104 W106 W112 W392 31,31,61,61,92,92,122,122,153,214,4286,4378,4408,4439,4500

# Australia Telescope Compact Array

## Schedule:- 30 Aug - 12 Sep

UT            14    16    18    20    22    0    2    4    6    8    10    12    14  
 AEST        0    2    4    6    8    10    12    14    16    18    20    22    24

Mon 30 Aug	Survey (8000) C1049(Ekers) (12mm)	Maintenance/Test	Survey (8000) C1049(Ekers) (12mm)	
Tue 31 Aug	C1049(Ekers)			WBCOR
Wed 1 Sep	Survey (8000) C1049(Ekers) (12mm)	Reconfigure #249/Calibration		
Thu 2 Sep	3mm installation period	Maintenance/Test		
Fri 3 Sep	3mm installation period	Maintenance/Test	DASI (128/128) C1168(Bernardi) (20)	
Sat 4 Sep	DASI (128/128) C1168(Bernardi) (20)	Cir X-1	(128/128) CX071(Fender) (6/3)	DASI (128/128) C1168(Bernardi) (20)
Sun 5 Sep	DASI (128/128) C1168(Bernardi) (20)	PKSB1308-441	(128/128) C1096(Jones) (6/3)	DASI (128/128) C1168(Bernardi) (20)
Mon 6 Sep	DASI (128/128) C1168(Bernardi) (20)	NGC3603	(128/128) C848(Koribalski) (6/3)	DASI (128/128) C1168(Bernardi) (20)
Tue 7 Sep	DASI (128/128) C1168(Bernardi) (20)	NGC3603	(128/128) C848(Koribalski) (6/3)	DASI (128/128) C1168(Bernardi) (20)
Wed 8 Sep	DASI (128/128) C1168(Bernardi) (20)	Maintenance/Test		DASI (128/128) C1168(Bernardi) (20)
Thu 9 Sep	DASI (128/128) C1168(Bernardi) (20)	Maintenance/Test		PSRB1259-63 C326(Johnston) (20/13+6/3)
Fri 10 Sep	NGC2442 C933(Ryder) (20)	(8/128)	Maintenance/Test	
Sat 11 Sep	ngc1433 C1328(Wong) (3mm)	(128)	Maintenance/Test	
Sun 12 Sep	ngc1566 C1328(Wong) (3mm)	(128)	Delta Quadrant CX072(Phillips) (128/128)	(6/3)
LST	0	6	12	18

Stations

Baselines (m)

WBCOR98 W102 W104 W106 W112 W392 31,31,61,61,92,92,122,122,153,214,4286,4378,4408,4439,4500

EW214W98 W102 W104 W109 W112 W392 31,46,61,77,92,107,122,153,168,214,4286,4332,4408,4439,4500

# Australia Telescope Compact Array

## Schedule:- 13 Sep - 26 Sep

UT            14    16    18    20    22    0    2    4    6    8    10    12    14  
 AEST        0    2    4    6    8    10    12    14    16    18    20    22    24

Mon 13 Sep	<small>ngc1512</small>	C1328(Wong) <small>(128)</small> <small>(3mm)</small>	Reconfigure #250/Calibration			EW214
Tue 14 Sep		Reconfigure #250/Calibration	Maintenance/Test			
Wed 15 Sep		Maintenance/Test				
Thu 16 Sep		<small>bhr12</small> C1314(Launhardt) <small>(16)</small> <small>(3mm)</small>				C1223C1223
Fri 17 Sep	<small>SBM03-3</small>	C1223(Ott) <small>(128/128)</small> <small>(3mm)</small>	<small>bhr71</small> C1314(Launhardt) <small>(16)</small> <small>(3mm)</small>	List	C1176(Gibb) <small>(16/128)</small> <small>(3mm)</small>	C1223C1223
Sat 18 Sep	<small>SBM03-3</small>	C1223(Ott) <small>(128/128)</small> <small>(3mm)</small>	<small>TN0924-2201</small> C1214(Klamer) <small>(128/128)</small> <small>(3mm)</small>	<small>bhr137</small>	C1314(Launhardt) <small>(16)</small> <small>(3mm)</small>	C1187
Sun 19 Sep	<small>N27</small>	C1187(Ott) <small>(64)</small> <small>(3mm)</small>	<small>TN0924-2201</small> C1214(Klamer) <small>(128/128)</small> <small>(3mm)</small>	List	C1176(Gibb) <small>(16/128)</small> <small>(3mm)</small>	
Mon 20 Sep	<small>LMC</small>	C1187(Ott) <small>(64)</small> <small>(3mm)</small>	<small>HD100546</small> C996(Wright) <small>(8/128)</small> <small>(3mm)</small>			C1223
Tue 21 Sep	<small>SBM03-3</small>	C1223(Ott) <small>(128/128)</small> <small>(3mm)</small>	<small>TN0924-2201</small> C1214(Klamer) <small>(128/128)</small> <small>(3mm)</small>	Delta Quadrant	CX072(Phillips) <small>(128/128)</small> <small>(6/3)</small>	
Wed 22 Sep	<small>LMC</small>	C1187(Ott) <small>(64)</small> <small>(3mm)</small>	<small>DKCha</small> C996(Wright) <small>(8/128)</small> <small>(3mm)</small>			C1223
Thu 23 Sep	<small>SBM03-3</small>	C1223(Ott) <small>(128/128)</small> <small>(3mm)</small>	<small>TN0924-2201</small> C1214(Klamer) <small>(128/128)</small> <small>(3mm)</small>		<small>W49B</small> C1329(Caswell) <small>(128/128)</small> <small>(3+12mm)</small>	
Fri 24 Sep	<small>LMC</small>	C1187(Ott) <small>(64)</small> <small>(3mm)</small>	List		C1273(Ellingsen) <small>(32)</small> <small>(3mm)</small>	C1223C1223
Sat 25 Sep	<small>SBM03-3</small>	C1223(Ott) <small>(128/128)</small> <small>(3mm)</small>	<small>TN0924-2201</small> C1214(Klamer) <small>(128/128)</small> <small>(3mm)</small>	List	C1273(Ellingsen) <small>(32)</small> <small>(3mm)</small>	C1223C1223
Sun 26 Sep	<small>SBM03-3</small>	C1223(Ott) <small>(128/128)</small> <small>(3mm)</small>	<small>TN0924-2201</small> C1214(Klamer) <small>(128/128)</small> <small>(3mm)</small>	List	C1273(Ellingsen) <small>(32)</small> <small>(3mm)</small>	C1223C1223
LST		6	12	18	0	

Stations

Baselines (m)

EW214W98 W102 W104 W109 W112 W392    31,46,61,77,92,107,122,153,168,214,4286,4332,4408,4439,4500  
 H75    W104 N2 N5 W106 W109 W392    31,31,43,46,55,77,77,82,89,4332,4378,4378,4378,4408

# Australia Telescope Compact Array

Schedule:- 27 Sep - 10 Oct

UT 14 16 18 20 22 0 2 4 6 8 10 12 14  
 AEST 0 2 4 6 8 10 12 14 16 18 20 22 24

Mon 27 Sep	LMC (64)	C1187(Ott)	(3mm)	BVP1	C1226(Barnard)	(16/128)	(3mm)	
Tue 28 Sep	LMC (64)	C1187(Ott)	(3mm)	Maintenance/Test				H75
Wed 29 Sep	M/T	sn1987a (128/128)	C015(Staveley-Smith)	(3mm)	Reconfigure #251/Calibration			
Thu 30 Sep	Reconfigure #251/Calibration					CC Eri (128/128)	C1333(Slee)	(20/13+6/3)
Fri 1 Oct	CC Eri (128/128)	C1333(Slee)	(20/13+6/3)	Cen A	C1321(Ott)	(128/128)	CC Eri (128/128)	C1333(Slee)
Sat 2 Oct	CC Eri (128/128)	C1333(Slee)	(20/13+6/3)	M83	C1321(Ott)	(128/128)	CC Eri (128/128)	C1333(Slee)
Sun 3 Oct	CC Eri (128/128)	C1333(Slee)	(20/13+6/3)	NGC3256	C1321(Ott)	(128/128)	List	C1176(Gibb)
Mon 4 Oct	NGC1808	C1321(Ott)	(128/128)	SFO76	C1362(Urquhart)	(8/128)	NGC1365	C1321(Ott)
Tue 5 Oct	NGC1365	C1321(Ott)	(128/128)	Circinus	C1321(Ott)	(128/128)	j0134-0931 (128)	C1363
Wed 6 Oct	j0134-0931 (128)	C1363	(3mm)	NGC3256	C1321(Ott)	(128/128)	List	C1176(Gibb)
Thu 7 Oct	j0134-0931 (128)	C1363	(3mm)	SFO58	C1362(Urquhart)	(8/128)	SFO75	C1362(Urquhart)
Fri 8 Oct	j0134-0931 (128)	C1363(Kanekar)	(3mm)	NGC3576	C1158(Purcell)	(32)	M17disk	C1351(Nurnberger)
Sat 9 Oct	ngc253 (128/128)	C1321(Ott)	(3mm)	SFO68	C1362(Urquhart)	(8/128)	M17disk	C1351(Nurnberger)
Sun 10 Oct				NGC3576	C1158(Purcell)	(32/128)	List	C1274(Nielbock)
							ngc1433 (128)	C1328
LST		6		12		18		0

Stations

Baselines (m)

H75 W104 N2 N5 W106 W109 W392

31,31,43,46,55,77,77,82,89,4332,4378,4378,4378,4408

H214 W98 N5 N14 W104 W113 W392

82,92,132,138,138,144,216,230,240,247,4270,4378,4383,4408,4500