

# Present Mode Tables

Mode ID	Cycle Duration	Rate			#	Steps	eV	Collapse
<b>1024s Cycle Tables</b>								
A21	1024	Normal	IONS	Energies	64	0 to 123 + 124 to 127	Full Range + FB	Adjacent 2
				Elevations	6	0 to 15		0-1,2-4,5-7,8-10,11-13,14-15
				Azimuths	8	0 to 15		0,1,2,3-11,12,13,14,15
			ELECTRONS	Energies	64	0-62, 123	4-811, highest	Full Res
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	6	0 to 15*		0-1,2-4,5-7,8-10,12-13,14-15
A22	1024	Normal	IONS	Energies	32	5 to 100	25 to 5400	Adjacent 3
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	16	0 to 15		Full res
			ELECTRONS	Energies	32	0 to 63	4 to 811	Adjacent 2
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	8	0 to 15*		Adjacent 2*
A31	1024	Burst	IONS	Energies	64	0 to 123 + 124 to 127	Full Range + FB	Adjacent 2
				Elevations	16	0 to 15		Full Res
				Azimuths	16	0 to 15		Full Res
			ELECTRONS	Energies	64	0 to 123 + 124 to 127	Full Range + FB	Adjacent 2
				Elevations	16	0 to 15		Full Res
				Azimuths	15	0 to 15*		Full Res*
A32	1024	Burst	IONS	Energies	124	0 to 123	Full Range	Full Res
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	16	0 to 15		Full Res
			ELECTRONS	Energies	128	0 to 123 + 124 to 127	Full Range + FB	Full Res
				Elevations	16	0 to 15		Full Res
				Azimuths	8	0 to 15*		Adjacent 2*
<b>512s Cycle Tables</b>								
921	512	Normal	IONS	Energies	24	5 to 100	25 to 5400	Adjacent 4
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	8	0 to 15		0,1,2,3-11,12,13,14,15
			ELECTRONS	Energies	24	0 to 71	4 to 1225	Adjacent 3
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	8	0 to 15*		Adjacent 2*
931	512	Burst	IONS	Energies	32	0 to 123 + 124 to 127	Full Range + FB	Adjacent 4
				Elevations	16	0 to 15		Full Res
				Azimuths	16	0 to 15		Full Res
			ELECTRONS	Energies	33	0 to 95, 123	4 to 4202 + highest	Adjacent 3
				Elevations	16	0 to 15		Full Res
				Azimuths	15	0 to 15*		Full Res*

# Present Mode Tables

Mode ID	Cycle Duration	Rate			#	Steps	eV	Collapse
<b>256s Cycle Tables</b>								
821	256	Normal	IONS	Energies	32	0 to 123 + 124 to 127	Full Range + FB	Adjacent 4
				Elevations	4	0 to 15		Adjacent 4
				Azimuths	8	0 to 15		0,1,2,3-11,12,13,14,15
			ELECTRONS	Energies	32	0 to 123 + 124 to 127	Full Range + FB	Adjacent 4
				Elevations	4	0 to 15		Adjacent 4
				Azimuths	4	0 to 15*		Adjacent 4*
831	256	Burst	IONS	Energies	63	0 to 123 + 124 to 125	Full Range + FB	Adjacent 2
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	8	0 to 15		0,1,2,3-11,12,13,14,15
			ELECTRONS	Energies	63	0 to 62	4 to 772	Full Res
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	8	0 to 15*		Adjacent 2*
834	256	Burst	IONS	Energies	33	0 to 98	4 to 4901	Adjacent 3
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	16	0 to 15		Full res
			ELECTRONS	Energies	60	0 to 119	4 to 14390	Adjacent 2
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	8	0 to 15*		Adjacent 2*
833	256	Burst	IONS	Energies	63	0 to 123 + 124 to 125	Full Range + FB	Adjacent 2
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	8	0 to 15		0,1,2,3-11,12,13,14,15
			ELECTRONS	Energies	63	0 to 123 + 124 to 125	Full Range + FB	Adjacent 2
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	8	0 to 15*		Adjacent 2*
<b>128s Cycle Tables</b>								
721	128	Normal	IONS	Energies	16	36 to 99	202 to 5156	Adjacent 4
				Elevations	3	0 to 15		0-4, 5-10, 11-15
				Azimuths	8	0 to 15		0,1,2,3-11,12,13,14,15
			ELECTRONS	Energies	16	0 to 63	4 to 811	Adjacent 4
				Elevations	3	0 to 15		0-4, 5-10, 11-15
				Azimuths	8	0 to 15*		Adjacent 2*
731	128	Burst	IONS	Energies	32	0 to 123 + 124 to 127	Full Range + FB	Adjacent 4
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	8	0 to 15		0,1,2,3-11,12,13,14,15
			ELECTRONS	Energies	31	0 to 123	Full Range	Adjacent 4
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	8	0 to 15*		Adjacent 2*
732	128	Burst	IONS	Energies	16	36 to 99	202 to 5156	Adjacent 4
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	16	0 to 15		Full Res
			ELECTRONS	Energies	31	0 to 92	4 to 3603	Adjacent 3
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	8	0 to 15*		Adjacent 2*

# Past Mode Tables

Mode ID	Cycle Duration	Rate			#	Steps	eV	Collapse
<b>Commissioning Tables</b>								
202	128	Normal	IONS	Energies	1	0 to 30	4 to 151	All
				Elevations	1	0 to 15		All
				Azimuths	16	0 to 15		Full Res
			ELECTRONS	Energies	1	0 to 30	4 to 151	All
				Elevations	1	0 to 15		All
				Azimuths	16	0 to 15		Full Res
302	128	Burst	IONS	Energies	31	0 to 30	4 to 151	Full Res
				Elevations	1	0 to 15		All
				Azimuths	16	0 to 15		Full Res
			ELECTRONS	Energies	31	0 to 30	4 to 151	Full Res
				Elevations	1	0 to 15		All
				Azimuths	16	0 to 15		Full Res
<b>Pre PC10 Nominal Tables</b>								
1C0	1024	Minimal	IONS	Energies	77	0 to 123 + 124 to 127	Full Range + FB	Full Res (0-25), Adjacent 2(26-127)
				Elevations	2	0 to 15		Adjacent 8
				Azimuths	2	0 to 15		0-2&12-14,3-11
			ELECTRONS	Energies	77	0 to 123 + 124 to 127	Full Range + FB	Full Res (0-25), Adjacent 2(26-127)
				Elevations	2	0 to 15		Adjacent 8
				Azimuths	2	0 to 15		Adjacent 8
1C1	1024	Minimal	IONS	Energies	77	0 to 123 + 124 to 127	Full Range + FB	Full Res (0-25), Adjacent 2(26-127)
				Elevations	2	0 to 15		Adjacent 8
				Azimuths	2	0 to 15		0-2&12-14,3-11
			ELECTRONS	Energies	77	0 to 123 + 124 to 127	Full Range + FB	Full Res (0-25), Adjacent 2(26-127)
				Elevations	2	0 to 15		Adjacent 8
				Azimuths	2	0 to 15*		Adjacent 8*
2C0	128	Normal	IONS	Energies	64	0 to 123 + 124 to 127	Full Range + FB	Adjacent 2
				Elevations	2	0 to 15		Adjacent 8
				Azimuths	3	0 to 15		0-2,3-11,12-15
			ELECTRONS	Energies	64	0 to 123 + 124 to 127	Full Range + FB	Adjacent 2
				Elevations	3	0 to 15		0-4,5-10,11-15
				Azimuths	2	0 to 15		Adjacent 8
2C1	128	Normal	IONS	Energies	64	0 to 123 + 124 to 127	Full Range + FB	Adjacent 2
				Elevations	2	0 to 15		Adjacent 8
				Azimuths	3	0 to 15		0-2,3-11,12-15
			ELECTRONS	Energies	64	0 to 123 + 124 to 127	Full Range + FB	Adjacent 2
				Elevations	3	0 to 15		0-4,5-10,11-15
				Azimuths	2	0 to 15*		Adjacent 8*
3C0	128	Burst	IONS	Energies	63	0 to 123 + 124 to 125	Full Range + FB	Adjacent 2
				Elevations	4	0 to 15		Adjacent 4
				Azimuths	8	0 to 15		0-2&12-15,3-4,5,6,7,8,9,10-11
			ELECTRONS	Energies	63	0 to 123 + 124 to 125	Full Range + FB	Adjacent 2
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	4	0 to 15		Adjacent 4
3C1	128	Burst	IONS	Energies	63	0 to 123 + 124 to 125	Full Range + FB	Adjacent 2
				Elevations	4	0 to 15		Adjacent 4
				Azimuths	8	0 to 15		0-2&12-15,3-4,5,6,7,8,9,10-11
			ELECTRONS	Energies	63	0 to 123 + 124 to 125	Full Range + FB	Adjacent 2
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	4	0 to 15*		Adjacent 4*

# Past Mode Tables

Mode ID	Cycle Duration	Rate			#	Steps	eV	Collapse
<b>Special Testing Tables</b>								
3C2	128	Burst	IONS	Energies	63	0 to 123 + 124 to 125	Full Range + FB	Adjacent 2
				Elevations	4	0 to 15		Adjacent 4
				Azimuths	8	0 to 15		0-2&12-15,3-4,5,6,7,8,9,10-11
			ELECTRONS	Energies	56	0 to 123 + 124 to 125	Full Range + FB	0-1,2-4,5-100(Sequence of Adjacent 2,2,3,2,2,3),101-102,103-104,105-107,108-125(Adjacent 2)
				Elevations	4	0 to 15		Adjacent 4
				Azimuths	9	0 to 15		0-7,8,9,10,11,12,13,14,15
2C3	128	Burst	IONS	Energies	4	5 to 15, 20 to 45, 55 to 66, 73 to 79	25 to 69, 90 to 323, 539 to 949, 1359 to 1846	5-15,20-45,55-66,73-79
				Elevations	16	0 to 15		Full Res
				Azimuths	16	0 to 15		Full Res
			ELECTRONS	Energies	11	1 to 17, 31 to 43	8 to 77, 155 to 293	1,2,3,4,5,6-7,8-9,10-11,12-14,15-17,31-43
				Elevations	16	0 to 15		Full Res
				Azimuths	16	0 to 15		Full Res
3C3	128	Burst	IONS	Energies	8	39 to 83	202 to 2269	39-43,44-49,50-57,58-62,63-67,68-72,73-76,77-83
				Elevations	16	0 to 15		Full Res
				Azimuths	16	0 to 15		Full Res
			ELECTRONS	Energies	7	0 to 54	4 to 513	0-2,3-6,7-11,12-20,21-31,32-45,46-54
				Elevations	16	0 to 15		Full Res
				Azimuths	15	0 to 15*		Full Res*
<b>MSB Tables</b>								
2A0	128	Normal	IONS	Energies	7	3 to 80	17 to 1946	3-13,14-23,24-44,45-54,55-60,61-68,69-80
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	10	0 to 15		0,1,2,3-5,6-8,9-11,12,13,14,15
			ELECTRONS	Energies	6	12 to 74	56 to 1428	12-22,23-30,31-44,45-54,55-65,66-74
				Elevations	4	0 to 15		Adjacent 4
				Azimuths	8	0 to 15		Adjacent 2
3A0	128	Burst	IONS	Energies	8	3 to 80	17 to 1946	3-13,14-23,24-34,35-44,45-54,55-60,61-69,70-80
				Elevations	16	0 to 15		Full Res
				Azimuths	16	0 to 15		Full Res
			ELECTRONS	Energies	7	0 to 74	4 to 1428	0-12,13-22,23-30,31-44,45-54,55-65,66-74
				Elevations	16	0 to 15		Full Res
				Azimuths	16	0 to 15		Full Res

# Past Mode Tables

Mode ID	Cycle Duration	Rate			#	Steps	eV	Collapse
<b>ESB2 Tables</b>								
2E0	128	Normal	IONS	Energies	16	36 to 99	202 to 5156	Adjacent 4
				Elevations	3	0 to 15		0-4, 5-10, 11-15
				Azimuths	8	0 to 15		0,1,2,3-11,12,13,14,15
			ELECTRONS	Energies	16	40 to 103	250 to 6334	Adjacent 4
				Elevations	3	0 to 15		0-4, 5-10, 11-15
				Azimuths	8	0 to 15*		Adjacent 2*
3E0	128	Burst	IONS	Energies	31	0 to 123	Full Range	Adjacent 4
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	8	0 to 15		0,1,2,3-11,12,13,14,15
			ELECTRONS	Energies	32	40 to 103	250 to 6334	Adjacent 2
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	8	0 to 15*		Adjacent 2*
3E1	128	Burst	IONS	Energies	32	0 to 123 + 124 to 127	Full Range + FB	Adjacent 4
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	8	0 to 15		0,1,2,3-11,12,13,14,15
			ELECTRONS	Energies	31	0 to 123	Full Range	Adjacent 4
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	8	0 to 15*		Adjacent 2*
3E2	128	Burst	IONS	Energies	31	38 to 99	224 to 5156	Adjacent 2
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	8	0 to 15		0,1,2,3-11,12,13,14,15
			ELECTRONS	Energies	32	0 to 63	4 to 811	Adjacent 2
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	8	0 to 15*		Adjacent 2*
2E1	128	Normal	IONS	Energies	16	36 to 99	202 to 5156	Adjacent 4
				Elevations	3	0 to 15		0-4, 5-10, 11-15
				Azimuths	8	0 to 15		0,1,2,3-11,12,13,14,15
			ELECTRONS	Energies	16	0 to 63	4 to 811	Adjacent 4
				Elevations	3	0 to 15		0-4, 5-10, 11-15
				Azimuths	8	0 to 15*		Adjacent 2*
<b>Post PC10 Replaced Tables</b>								
A23	1024	Normal	IONS	Energies	64	0 to 123 + 124 to 127	Full Range + FB	Adjacent 2
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	8	0 to 15		0,1,2,3-11,12,13,14,15
			ELECTRONS	Energies	32	0 to 63	4 to 811	Adjacent 2
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	8	0 to 15*		Adjacent 2*
<b>Comet Escort Phase Tables</b>								
832	256	Burst	IONS	Energies	33	0 to 98	4 to 4901	Adjacent 3
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	16	0 to 15		Full res
			ELECTRONS	Energies	32	0 to 63	4 to 811	Adjacent 2
				Elevations	8	0 to 15		Adjacent 2
				Azimuths	15	0 to 15*		Full res*