

RPC-IES Mode Tables List and Details (Updated on 29 Mar 2017)

Legend	
FB2	includes only 2nd flyback step
FB2,3	includes 2nd & 3rd flyback steps
FB1,2	includes 1st & 2nd flyback steps
FB1,2,3,4	includes all four flyback steps
*	excludes Azimuth channel 11
**	excludes Azimuth channels 11 & 12

Present Mode Tables (1 of 2)											
Mode ID	Cycle Duration	Rate			#	Steps	eV	Collapse	Mode Table #	Uplink Date	Replacement Date
1024s Cycle Tables											
124	1024	Normal	IONS	Energies	64	0 to 123, 125, 126	Full Range + FB2,3	Adjacent 2	5	29-Apr-15	In Use
				Elevations	8	0 to 15		Adjacent 2			
				Azimuths	8	0 to 15		0,1,2,3-11,12,13,14,15			
			ELECTRONS	Energies	64	0 to 123, 125, 126	Full Range + FB2,3	Adjacent 2			
				Elevations	4	0 to 15		Adjacent 4			
				Azimuths	8	0 to 15**		Adjacent 2**			
133	1024	Burst	IONS	Energies	126	0 to 123, 125, 126	Full Range + FB2,3	Full Res	9	29-Apr-15	In Use
				Elevations	8	0 to 15		Adjacent 2			
				Azimuths	16	0 to 15		Full Res			
			ELECTRONS	Energies	126	0 to 123, 125, 126	Full Range + FB2,3	Full Res			
				Elevations	8	0 to 15		Adjacent 2			
				Azimuths	16	0 to 15		Full Res			
768s Cycle Tables											
631	768	Burst	IONS	Energies	94	32 to 123, 125, 126	163 – 17600 + FB2,3	Full Res	8	29-Apr-15	In Use
				Elevations	8	0 to 15		Adjacent 2			
				Azimuths	16	0 to 15		Full Res			
			ELECTRONS	Energies	94	32 to 123, 125, 126	163 – 17600 + FB2,3	Full Res			
				Elevations	8	0 to 15		Adjacent 2			
				Azimuths	16	0 to 15		Full Res			
512s Cycle Tables											
922	512	Normal	IONS	Energies	64	0 to 123, 125, 126	Full Range + FB2,3	Adjacent 2	3	29-Apr-15	In Use
				Elevations	4	0 to 15		Adjacent 4			
				Azimuths	8	0 to 15		0,1,2,3-11,12,13,14,15			
			ELECTRONS	Energies	64	0 to 123, 125, 126	Full Range + FB2,3	Adjacent 2			
				Elevations	2	0 to 15		Adjacent 8			
				Azimuths	8	0 to 15*		Adjacent 2**			
932	512	Burst	IONS	Energies	32	0 to 123, 125	Full Range + FB2	Adjacent 4	4	29-Apr-15	In Use
				Elevations	16	0 to 15		Full Res			
				Azimuths	16	0 to 15		Full Res			
			ELECTRONS	Energies	32	0 to 123, 125	Full Range + FB2	Adjacent 4			
				Elevations	16	0 to 15		Full Res			
				Azimuths	15	0 to 15*		Full Res*			
256s Cycle Tables											
822	256	Normal	IONS	Energies	32	0 to 123, 125	Full Range + FB2	Adjacent 4	10	29-Apr-15	In Use
				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, 125	Full Range + FB2	Adjacent 4			
				Elevations	2	0 to 15		Adjacent 8			
				Azimuths	8	0 to 15**		Adjacent 2**			
835	256	Burst	IONS	Energies	126	0 to 123, 125, 126	Full Range + FB2,3	Full Res	1	29-Apr-15	In Use
				Elevations	4	0 to 15		Adjacent 4			
				Azimuths	8	0 to 15		0,1,2,3-11,12,13,14,15			
			ELECTRONS	Energies	126	0 to 123, 125, 126	Full Range + FB2,3	Full Res			
				Elevations	4	0 to 15		Adjacent 4			
				Azimuths	8	0 to 15**		Adjacent 2**			
836	256	Burst	IONS	Energies	63	0 to 123, 125	Full Range + FB2	Adjacent 2	2	29-Apr-15	In Use
				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, 125	Full Range + FB2	Adjacent 2			
				Elevations	8	0 to 15		Adjacent 2			
				Azimuths	8	0 to 15**		Adjacent 2**			
837	256	Burst	IONS	Energies	32	0 to 123, 125	Full Range + FB2	Adjacent 4	12	29-Apr-15	In Use
				Elevations	8	0 to 15		Adjacent 2			
				Azimuths	16	0 to 15		Full Res			
			ELECTRONS	Energies	32	0 to 123, 125	Full Range + FB2	Adjacent 4			
				Elevations	8	0 to 15		Adjacent 2			
				Azimuths	16	0 to 15		Full Res			

Present Mode Tables (2 of 2)

Mode ID	Cycle Duration	Rate		#	Steps	eV	Collapse	Table #	Uplink Date	Replacement Date	
192s Cycle Tables											
421	192	Normal	IONS	Energies	24	32 to 123, 125	163 – 17600 + FB2	Adjacent 4	6	29-Apr-15	In Use
				Elevations	4	0 to 15		Adjacent 4			
				Azimuths	8	0 to 15		0,1,2,3-11,12,13,14,15			
			ELECTRONS	Energies	24	32 to 123, 125	163 – 17600 + FB2	Adjacent 4			
				Elevations	2	0 to 15		Adjacent 8			
				Azimuths	8	0 to 15**		Adjacent 2**			
431	192	Burst	IONS	Energies	47	32 to 123, 125	163 – 17600 + FB2	Adjacent 2	0	29-Apr-15	In Use
				Elevations	8	0 to 15		Adjacent 2			
				Azimuths	8	0 to 15		0,1,2,3-11,12,13,14,15			
			ELECTRONS	Energies	47	32 to 123, 125	163 – 17600 + FB2	Adjacent 2			
				Elevations	8	0 to 15		Adjacent 2			
				Azimuths	8	0 to 15**		Adjacent 2**			
128s Cycle Tables											
733	128	Burst	IONS	Energies	63	0 to 123, 125	Full Range + FB2	Adjacent 2	11	29-Apr-15	In Use
				Elevations	4	0 to 15		Adjacent 4			
				Azimuths	8	0 to 15		0,1,2,3-11,12,13,14,15			
			ELECTRONS	Energies	63	0 to 123, 125	Full Range + FB2	Adjacent 2			
				Elevations	4	0 to 15		Adjacent 4			
				Azimuths	8	0 to 15**		Adjacent 2**			
734	128	Burst	IONS	Energies	16	36 to 99	202 to 5156	Adjacent 4	7	29-Apr-15	In Use
				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 (1 of 4)

Mode ID	Cycle Duration	Rate			#	Steps	eV	Collapse	Table #	Upload Date	Replacement Date
Comet Escort Phase Tables											
834	256	Burst	IONS	Energies	33	0 to 98	4 to 4901	Adjacent 3	0	30-Oct-14	29-Apr-15
				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*			
A21	1024	Normal	IONS	Energies	64	0 to 127	Full Range + FB1,2,3,4	Adjacent 2	6	30-Sep-09	29-Apr-15
				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	5	30-Sep-09	29-Apr-15
				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 127	Full Range + FB1,2,3,4	Adjacent 2	8	30-Sep-09	29-Apr-15
				Elevations	16	0 to 15		Full Res			
				Azimuths	16	0 to 15		Full Res			
			ELECTRONS	Energies	64	0 to 127	Full Range + FB1,2,3,4	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	9	30-Sep-09	29-Apr-15
				Elevations	8	0 to 15		Adjacent 2			
				Azimuths	16	0 to 15		Full Res			
			ELECTRONS	Energies	128	0 to 127	Full Range + FB1,2,3,4	Full Res			
				Elevations	16	0 to 15		Full Res			
				Azimuths	8	0 to 15*		Adjacent 2*			
921	512	Normal	IONS	Energies	24	5 to 100	25 to 5400	Adjacent 4	3	30-Sep-09	29-Apr-15
				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 127	Full Range + FB1,2,3,4	Adjacent 4	4	30-Sep-09	29-Apr-15
				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*			

Past Mode Tables (2 of 4)

Mode ID	Cycle Duration	Rate			#	Steps	eV	Collapse	Table #	Upload Date	Replacement Date
Comet Escort Phase Tables (Continued)											
821	256	Normal	IONS	Energies	32	0 to 127	Full Range + FB1,2,3,4	Adjacent 4	12	30-Sep-09	29-Apr-15
				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 127	Full Range + FB1,2,3,4	Adjacent 4			
				Elevations	4	0 to 15		Adjacent 4			
				Azimuths	4	0 to 15*		Adjacent 4*			
831	256	Burst	IONS	Energies	63	0 to 125	Full Range + FB1,2	Adjacent 2	1	30-Sep-09	29-Apr-15
				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*			
832	256	Burst	IONS	Energies	33	0 to 98	4 to 4901	Adjacent 3	0	30-Sep-09	30-Oct-14
				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*			
833	256	Burst	IONS	Energies	63	0 to 125	Full Range + FB1,2	Adjacent 2	2	30-Sep-09	29-Apr-15
				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 125	Full Range + FB1,2	Adjacent 2			
				Elevations	8	0 to 15		Adjacent 2			
				Azimuths	8	0 to 15*		Adjacent 2*			
721	128	Normal	IONS	Energies	16	36 to 99	202 to 5156	Adjacent 4	10	30-Sep-09	29-Apr-15
				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 127	Full Range + FB1,2,3,4	Adjacent 4	11	30-Sep-09	29-Apr-15
				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	7	30-Sep-09	29-Apr-15
				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 (3 of 4)												
Mode ID	Cycle Duration	Rate			#	Steps	eV	Collapse	Table #	Upload Date	Replacement Date	
Post PC10 Replaced Tables												
A23	1024	Normal	IONS	Energies	64	0 to 127	Full Range + FB1,2,3,4	Adjacent 2	7	Never used in flight	Never used in flight	
				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*				
Special Testing Tables (1 of 3)												
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	0	15-Jul-08	15-Jul-08	
				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*				
ESB2 Tables												
2E0	128	Normal	IONS	Energies	16	36 to 99	202 to 5156	Adjacent 4	0	16-Sep-07	15-Jul-08	
				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	1	16-Sep-07	1-May-10	
				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 127	Full Range + FB1,2,3,4	Adjacent 4	2	16-Sep-07	30-Sep-09	
				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	3	16-Sep-07	30-Sep-09	
				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	4	16-Sep-07	30-Sep-09	
				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*				
Pre PC10 Nominal Tables (1 of 2)												
1C1	1024	Minimal	IONS	Energies	77	0 to 127	Full Range + FB1,2,3,4	Full Res (0-25), Adjacent 2(26-127)	9	19-Dec-06	30-Sep-09	
				Elevations	2	0 to 15		Adjacent 8				
				Azimuths	2	0 to 15		0-2&12-15,3-11				
			ELECTRONS	Energies	77	0 to 127	Full Range + FB1,2,3,4	Full Res (0-25), Adjacent 2(26-127)				
				Elevations	2	0 to 15		Adjacent 8				
				Azimuths	2	0 to 15*		Adjacent 8*				
2C1	128	Normal	IONS	Energies	64	0 to 127	Full Range + FB1,2,3,4	Adjacent 2	10	19-Dec-06	30-Sep-09	
				Elevations	2	0 to 15		Adjacent 8				
				Azimuths	3	0 to 15		0-2,3-11,12-15				
			ELECTRONS	Energies	64	0 to 127	Full Range + FB1,2,3,4	Adjacent 2				
				Elevations	3	0 to 15		0-4,5-10,11-15				
				Azimuths	2	0 to 15*		Adjacent 8*				
3C1	128	Burst	IONS	Energies	63	0 to 125	Full Range + FB1,2	Adjacent 2	11	19-Dec-06	30-Sep-09	
				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 125	Full Range + FB1,2	Adjacent 2				
				Elevations	8	0 to 15		Adjacent 2				
				Azimuths	4	0 to 15*		Adjacent 4*				
Special Testing Tables (2 of 3)												
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	0	16-Sep-07	16-Sep-07	
				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				

Past Mode Tables (4 of 4)											
Mode ID	Cycle Duration	Rate			#	Steps	eV	Collapse	Table #	Uplink Date	Replacement Date
MSB Tables											
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	2	19-Dec-06	16-Sep-07
				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	3	19-Dec-06	16-Sep-07
				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			
Special Testing Tables (3 of 3)											
3C2	128	Burst	IONS	Energies	63	0 to 125	Full Range + FB1,2	Adjacent 2	0	7-Dec-06	7-Dec-06
				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 125	Full Range + FB1,2	0-1,2-4,5-100(Sequence of Adjacent 2,2,3,2,2,2,3),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			
Commissioning Tables											
202	128	Normal	IONS	Energies	1	0 to 30	4 to 151	All	5	18-Mar-04	30-Sep-09
				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	6	18-Mar-04	30-Sep-09
				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			
Pre PC10 Nominal Tables (2 of 2)											
1C0	1024	Minimal	IONS	Energies	77	0 to 127	Full Range + FB1,2,3,4	Full Res (0-25), Adjacent 2(26-127)	9	18-Mar-04	19-Dec-06
				Elevations	2	0 to 15		Adjacent 8			
				Azimuths	2	0 to 15		0-2&12-15,3-11			
			ELECTRONS	Energies	77	0 to 127	Full Range + FB1,2,3,4	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 127	Full Range + FB1,2,3,4	Adjacent 2	10	18-Mar-04	19-Dec-06
				Elevations	2	0 to 15		Adjacent 8			
				Azimuths	3	0 to 15		0-2,3-11,12-15			
			ELECTRONS	Energies	64	0 to 127	Full Range + FB1,2,3,4	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 125	Full Range + FB1,2	Adjacent 2	11	18-Mar-04	19-Dec-06
				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 125	Full Range + FB1,2	Adjacent 2			
				Elevations	8	0 to 15		Adjacent 2			
				Azimuths	4	0 to 15		Adjacent 4			