Life Support Team
Data Tracking Table

For the Mission

Circle One: Oxygen (O^2) Carbon Dioxide (CO^2)

Column	A	B	C (Graph this column)	D	E	F	G
Table Headings	UTC	Content of O^2 or CO^2	Partial Pressure of O^2 or CO^2	Change in O^2 or CO^2	Rate	Direction of Change	Time to Criticality**
Units	24-hour Clock	%	mmHg	mmHg	mmHg per hour		hours
Calculations	From Data	From Data	C= 760 x B/100	D= Current C - Previous C	E= D/0.33	Look at the graph and check one	G= Critical Value-C / E
For the Mission	15:00	0.37	2.81	n/a	n/a	n/a	n/a
	15:20	0.45	3.42	0.61	1.85	toward	2.26
	15:40	0.58	4.41	0.99	3.00	toward	1.06
	16:00	0.80	6.08	1.67	5.06	toward	0.30
	16:20	1.05	7.98	1.90	5.76	critical	n/a
	16:40	1.19	9.04	1.06	3.21	critical	n/a
	17:00	1.62	12.31	3.27	9.91	away	n/a
	17:20	1.80	13.68	1.37	4.15	critical	n/a
	17:40	0.95	7.22	-6.46	-19.58	away	n/a
	18:00	0.74	5.62	-1.60	-4.85	away	n/a
	18:20	0.37	2.81	-1.07	-3.24	away	n/a

Note: Round all calculations to two decimal places. Critical Value for O^2 is 115mmHg. Critical Value for CO^2 is 7.6 mmHg.

Life Support Team
Data Tracking Table

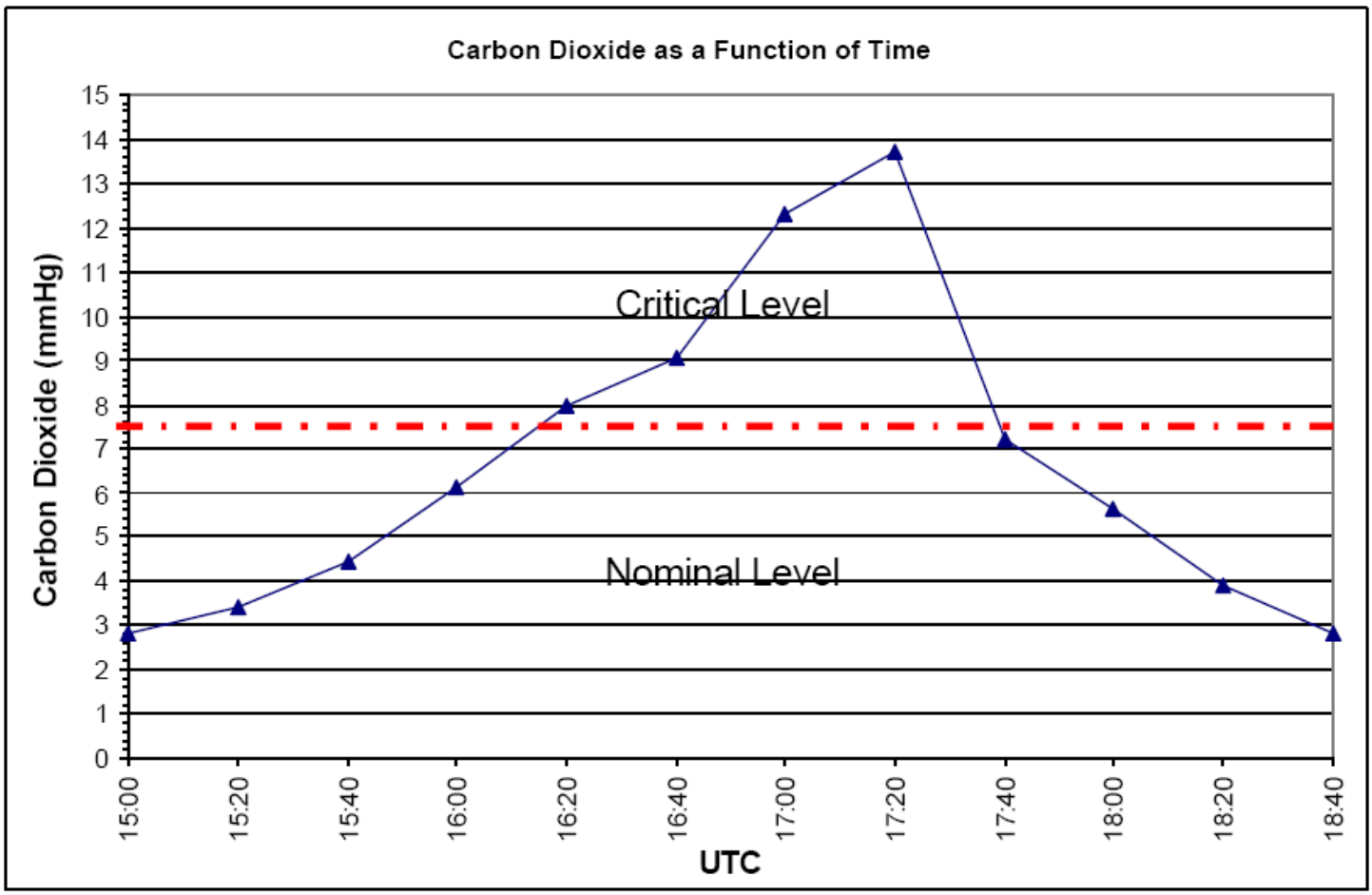
For the Mission

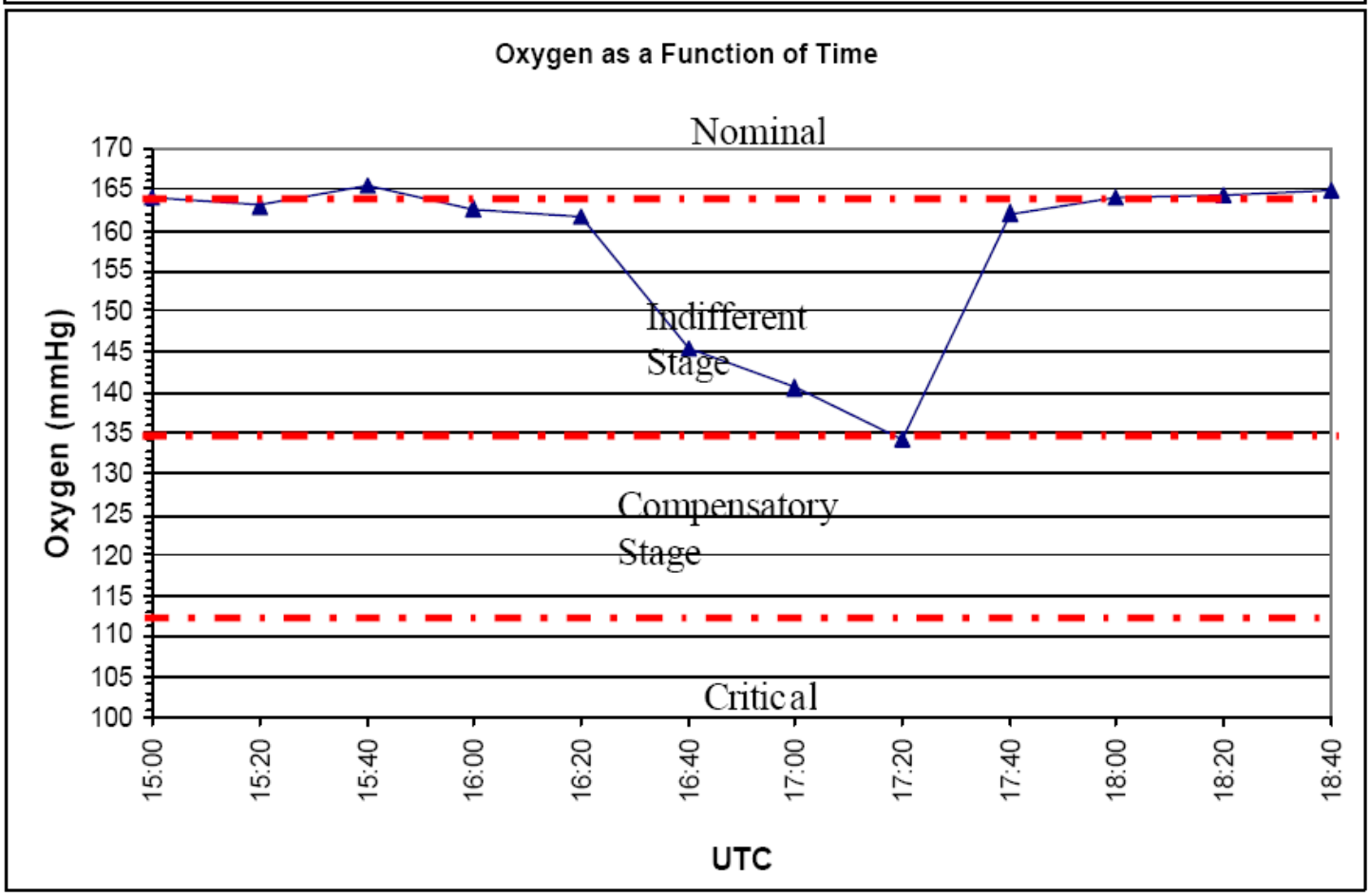
Circle One: Oxygen (O^2) Carbon Dioxide (CO^2)

Column	A	B	C (Graph this column)	D	E	F	G
Table Headings	UTC	Content of O^2 or CO^2	Partial Pressure of O^2 or CO^2	Change in O^2 or CO^2	Rate	Direction of Change	Time to Criticality**
Units	24-hour Clock	%	mmHg	mmHg	mmHg per hour		hours
Calculations	From Data	From Data	C= 760 x B/100	D= Current C - Previous C	E= D/0.33	Look at the graph and check one	G= Critical Value-C / E
For the Mission	15:00	21.56	163.86	n/a	n/a	n/a	n/a
	15:20	21.42	162.79	-1.07	-3.24	toward	14.75
	15:40	21.75	165.30	2.51	7.61	away	n/a
	16:00	21.40	162.64	-2.66	-8.06	toward	5.91
	16:20	21.29	161.80	-0.84	-2.55	toward	18.35
	16:40	19.15	145.54	-16.26	-49.27	toward	0.62
	17:00	18.50	140.60	-4.94	-14.97	toward	1.71
	17:20	17.65	134.14	-6.46	-19.58	toward	0.98
	17:40	21.33	162.11	27.97	84.76	away	n/a
	18:00	21.56	163.86	1.75	5.30	away	n/a
	18:20	21.70	164.92	0.76	2.30	away	n/a

Note: Round all calculations to two decimal places. Critical Value for O^2 is 115mmHg. Critical Value for CO^2 is 7.6 mmHg.

Mission Data





Radiation Team
Data Tracking Table

Circle One: TEPC1 (Portable) TEPC2 (Stationary)

Column	A	B	C (Graph this column)	D	E	F (Graph this column and compare to tables in the Reference Guide)
Table Headings	UTC	20 min Dose Total	Cumulative Dose	Dose Rate	Time to Criticality	24 hour Projected Total
Units	24 Hour Clock	rems	rems	rem/hr	Hours	rems
Calculations	From Data	From Data	C= B + Previous C	$D = \frac{B}{0.33}$	$E = \frac{100 - C}{D}$	F= (D x 24) + C
For the Mission	15:00	0.24	0.24	0.73	136.66	17.76
	15:20	0.89	1.13	2.70	36.62	65.93
	15:40	1.47	2.60	4.45	21.89	109.40
	16:00	1.35	3.95	4.09	23.48	102.11
	16:20	1.91	5.86	5.79	16.26	144.82
	16:40	2.00	7.86	6.06	15.20	153.30
	17:00	3.45	11.31	10.45	8.49	262.11
	17:20	2.55	13.86	7.73	11.14	199.38
	17:40	1.99	15.85	6.03	13.96	160.57
	18:00	2.04	17.89	6.18	13.29	166.21
	18:20	1.07	20.54	3.24	24.52	98.30

Note: Round all calculations to two decimal places.

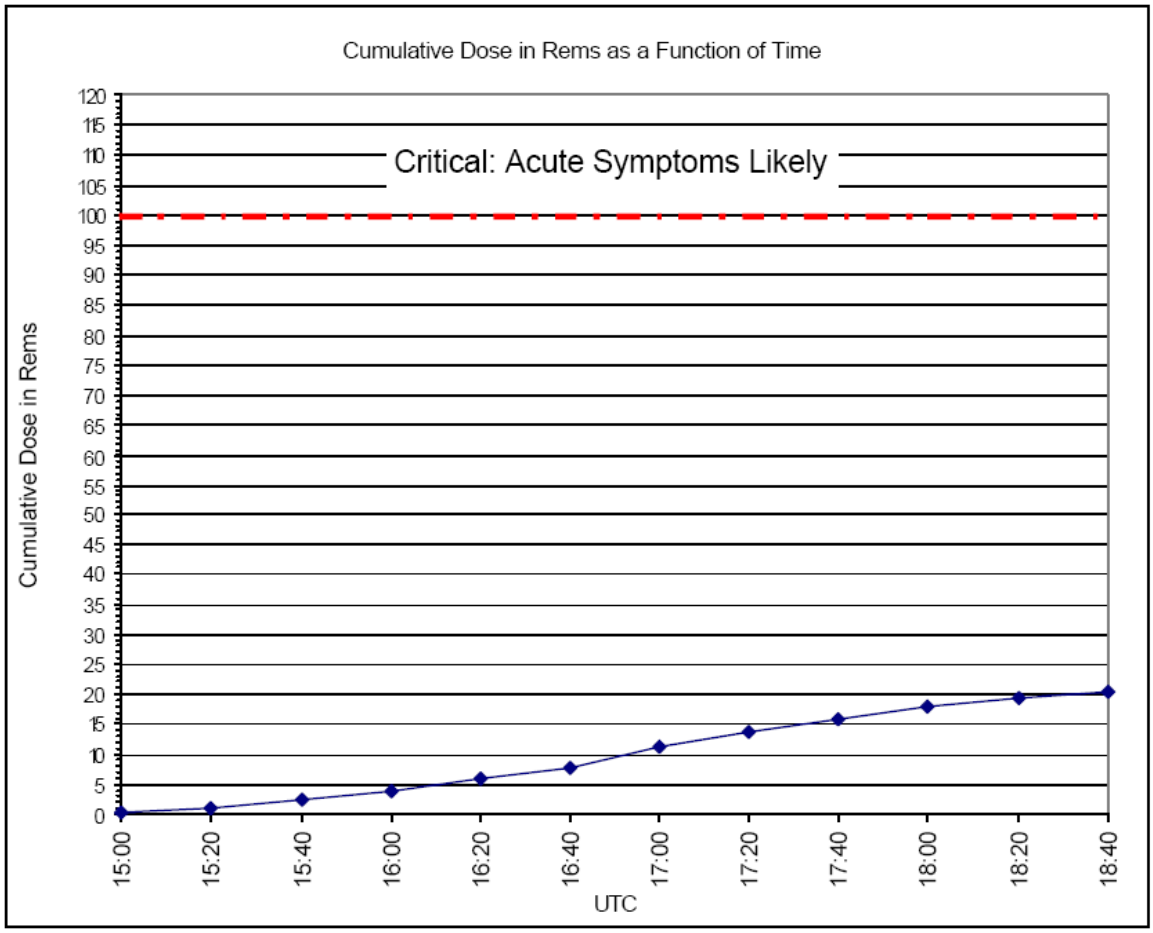
Radiation Team
Data Tracking Table

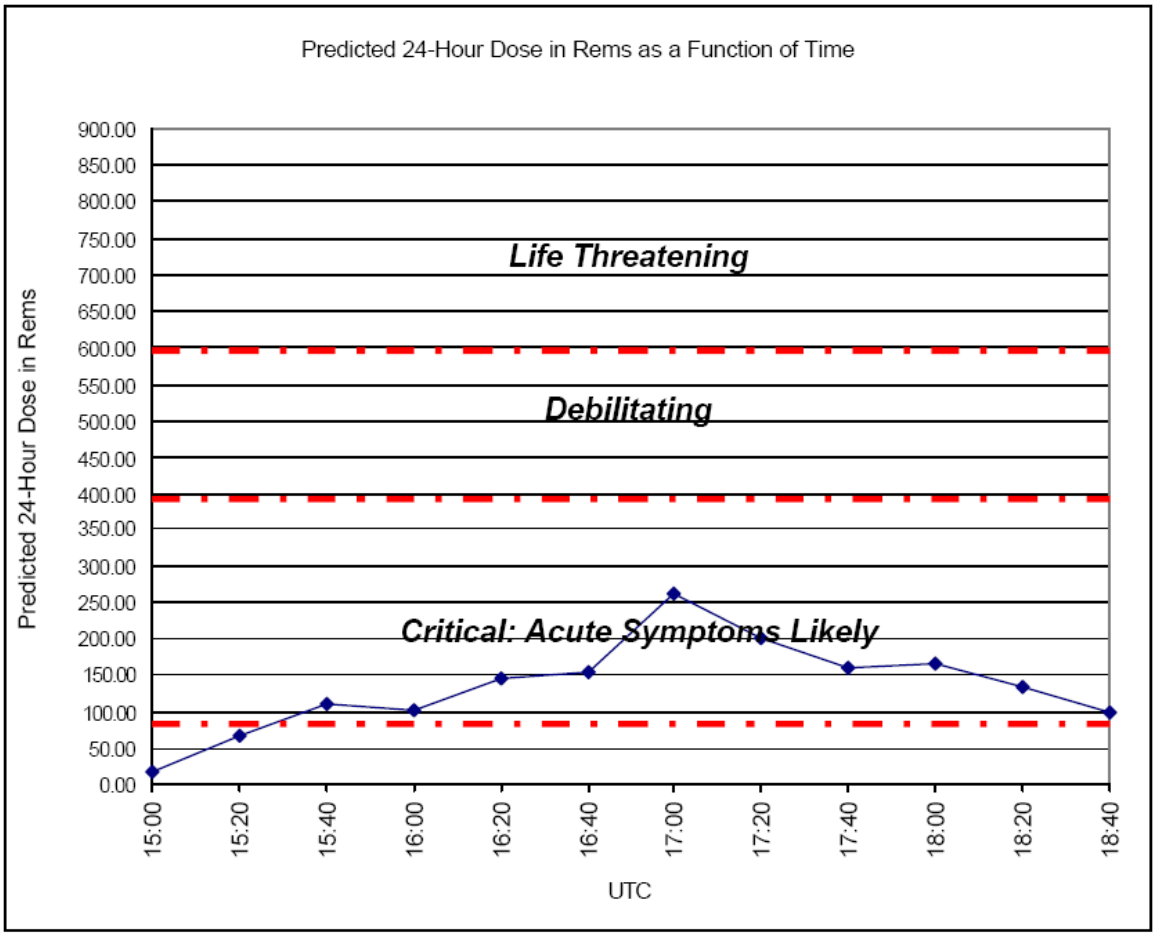
Circle One: TEPC1 (Portable) TEPC2 (Stationary)

Column	A	B	C (Graph this column)	D	E	F (Graph this column and compare to tables in the Reference Guide)
Table Headings	UTC	20 min Dose Total	Cumulative Dose	Dose Rate	Time to Criticality	24 hour Projected Total
Units	24 Hour Clock	rems	rems	rem/hr	Hours	rems
Calculations	From Data	From Data	C= B + Previous C	D= $\frac{B}{0.33}$	E= $\frac{100 - C}{D}$	F= (D x 24) + C
For the Mission	15:00	0.74	0.74	2.24	44.31	54.5
	15:20	0.77	1.51	2.33	42.27	57.43
	15:40	1.52	3.03	4.61	21.03	113.67
	16:00	1.31	4.34	3.97	24.10	99.62
	16:20	6.23	10.57	18.88	4.74	463.69
	16:40	8.96	19.53	27.15	2.96	671.13
	17:00	11.00	30.53	33.33	2.08	830.45
	17:20	11.64	42.17	35.27	1.64	888.65
	17:40	10.64	52.81	32.24	1.46	826.57
	18:00	7.56	60.37	22.91	1.73	610.21
	18:20	2.94	68.40	8.91	3.55	282.24

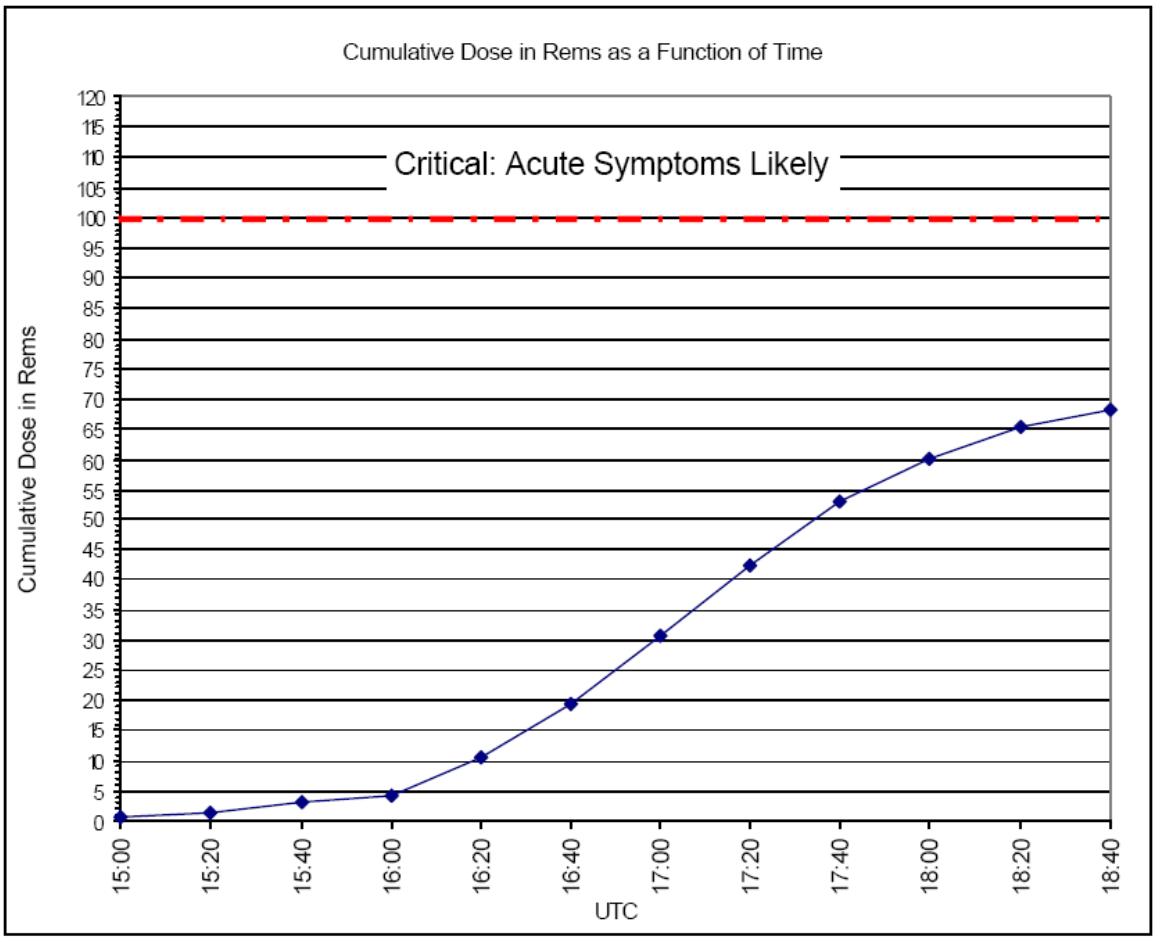
Note: Round all calculations to two decimal places.

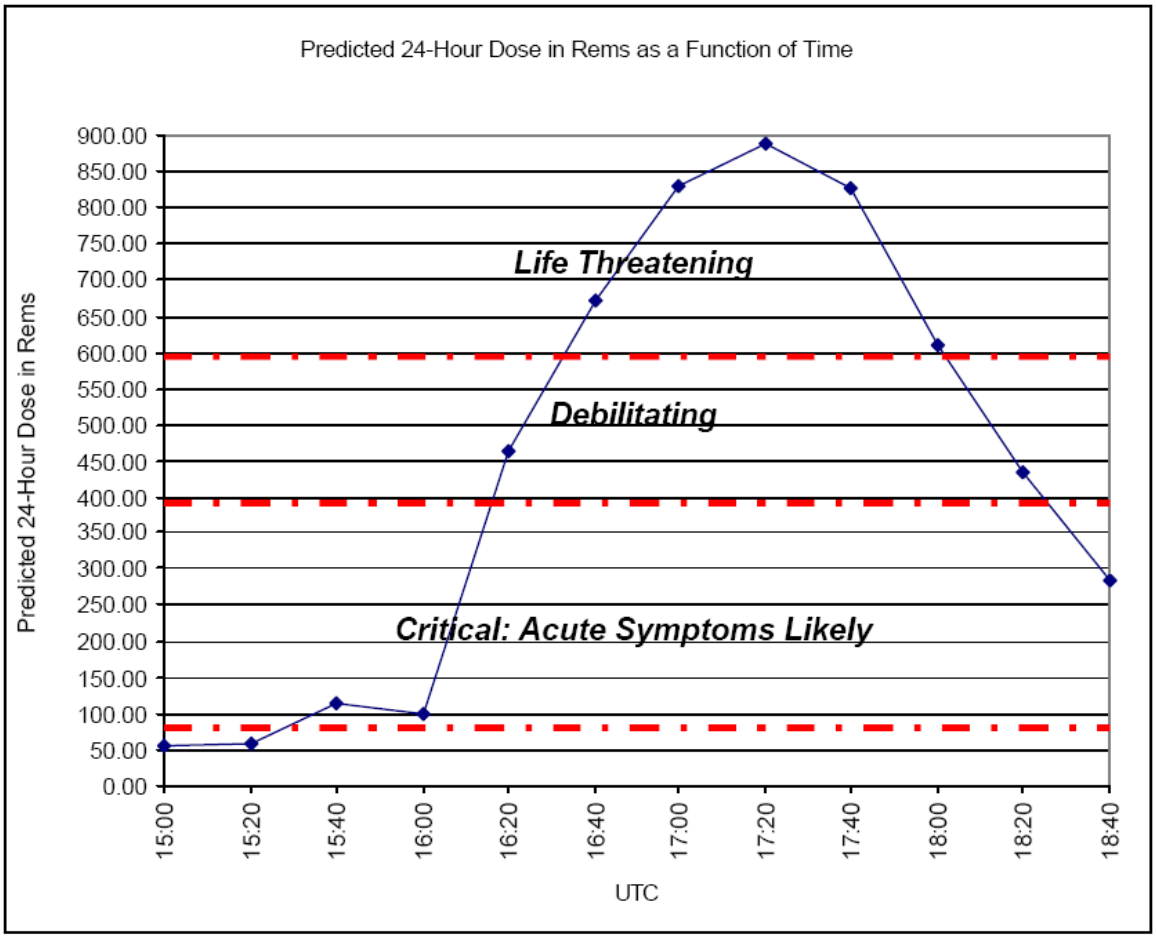
Mission Day TEPC 1





Mission Day TEPC 2





STORM Team
Data Tracking Table: X-Ray Production

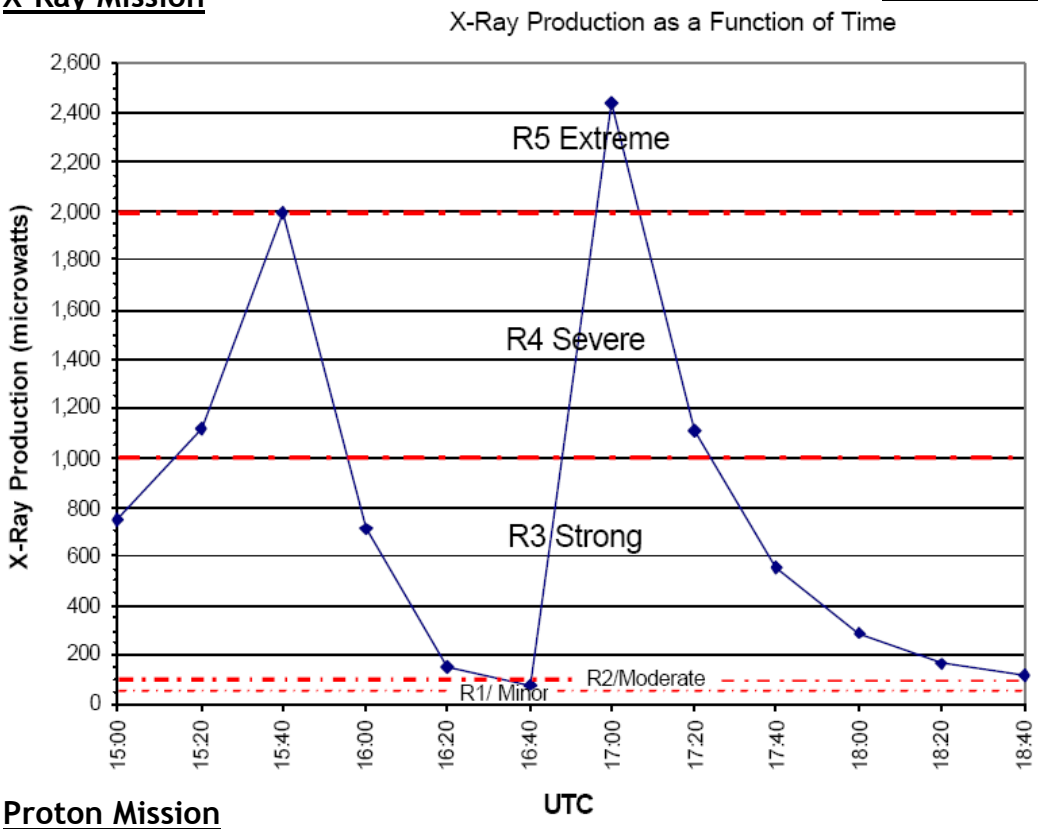
Column	A	B (Graph this column)	C	D	E	F (Use graph or charts)	G
Table Headings	UTC	X-Rays	Category	Change	Rate	Projected X-Ray Production in 1 Hour	Category
Units	24-hour Clock	Amount of X-Rays	From R1 to R5	Amount of X-Rays	X-Ray/min	X-Ray Production	From R1 to R5
Calculations	From Data	From Data	See Reference Guide	B - Previous B	D/20 min	(E x 60 min) + B	See Reference Guide
For the Mission	15:00	750	R3	n/a	n/a	n/a	n/a
	15:20	1,117	R4	367	18.35	2,218	R5
	15:40	1,989	R4	872	43.6	4,605	R5
	16:00	710	R3	-1,279	-63.95	0	n/a
	16:20	145	R3	-565	-28.25	0	n/a
	16:40	79	R2	-66	-3.3	0	n/a
	17:00	2,439	R5	2,360	118	9,519	R5
	17:20	1,110	R4	-1,329	-66.45	0	n/a
	17:40	554	R3	-556	-27.8	0	n/a
	18:00	288	R3	-266	-13.3	0	n/a
	18:20	121	R3	-42	-2.1	0	n/a

STORM Team
Data Tracking Table: Proton Production

Column	A	B (Graph this column)	C	D	E	F (Use graph or charts)	G
Table Headings	UTC	X-Rays	Category	Change	Rate	Projected 24 Hour Proton Production	Category
Units	24-hour Clock	Amount of Protons	From S1 to S5	Amount of Protons	Protons/min	Amount of Protons	From S1 to S5
Calculations	From Data	From Data	See Reference Guide	B - Previous B	D/20 min	(E x 1440 min) + B	See Reference Guide
For the Mission	15:00	15	S1	n/a	n/a	n/a	n/a
	15:20	213	S2	198	9.9	14,469	S4
	15:40	1,077	S3	864	43.2	63,285	S4
	16:00	419	S2	-658	-32.9	0	n/a
	16:20	964	S2	545	27.25	40,204	S4
	16:40	4,755	S3	3,791	189.55	277,707	S5
	17:00	5,453	S3	698	34.9	55,709	S4
	17:20	3,358	S3	-2,095	-104.75	0	n/a
	17:40	5,200	S3	1,842	92.1	137,824	S5
	18:00	3,000	S3	-2,200	-110	0	n/a
	18:20	740	S2	-770	-38.5	0	n/a

X-Ray Amount (microwatts)	X-Ray Category	Descriptor
>2000	R5	Extreme
1000 - 2000	R4	Severe
100 - 1000	R3	Strong
50 - 100	R2	Moderate
0 - 50	R1	Minor

X-Ray Mission



Proton Mission