



# Life Support Team Data Tracking Table



## Examples and Practice

Circle One:

Oxygen (O<sup>2</sup>)

Carbon Dioxide (CO<sup>2</sup>)

Column	A	B	C (Graph this column)	D	E	F	G
Table Headings	UTC	Content of O <sup>2</sup> or CO <sup>2</sup>	Partial Pressure of O <sup>2</sup> or CO <sup>2</sup>	Change in O <sup>2</sup> or CO <sup>2</sup>	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 = $\frac{\text{Critical Value} - C}{E}$
<b>Examples and Practice</b>	15:00	0.35	2.66	n/a	n/a	n/a	n/a
	15:20	0.57	4.33	1.67	5.07	toward	0.64
	15:40	0.37	2.81	-1.52	-4.61	away	n/a
	16:00	0.80	6.08	3.27	9.91	toward	0.15
	16:20	1.20	9.12	3.04	9.21	critical	n/a
	16:40	1.40	10.64	1.52	4.61	critical	n/a
	17:00	0.90	6.84	-3.80	-11.52	away	n/a
	17:20	1.80	13.68	6.84	20.73	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	0.51	3.88	-1.74	-5.27	away	n/a

Note: Round all calculations to two decimal places. **Critical Value for O<sup>2</sup> is 115mmHg. Critical Value for CO<sup>2</sup> is 7.6 mmHg.**



# Life Support Team Data Tracking Table



## Examples and Practice

Circle One:

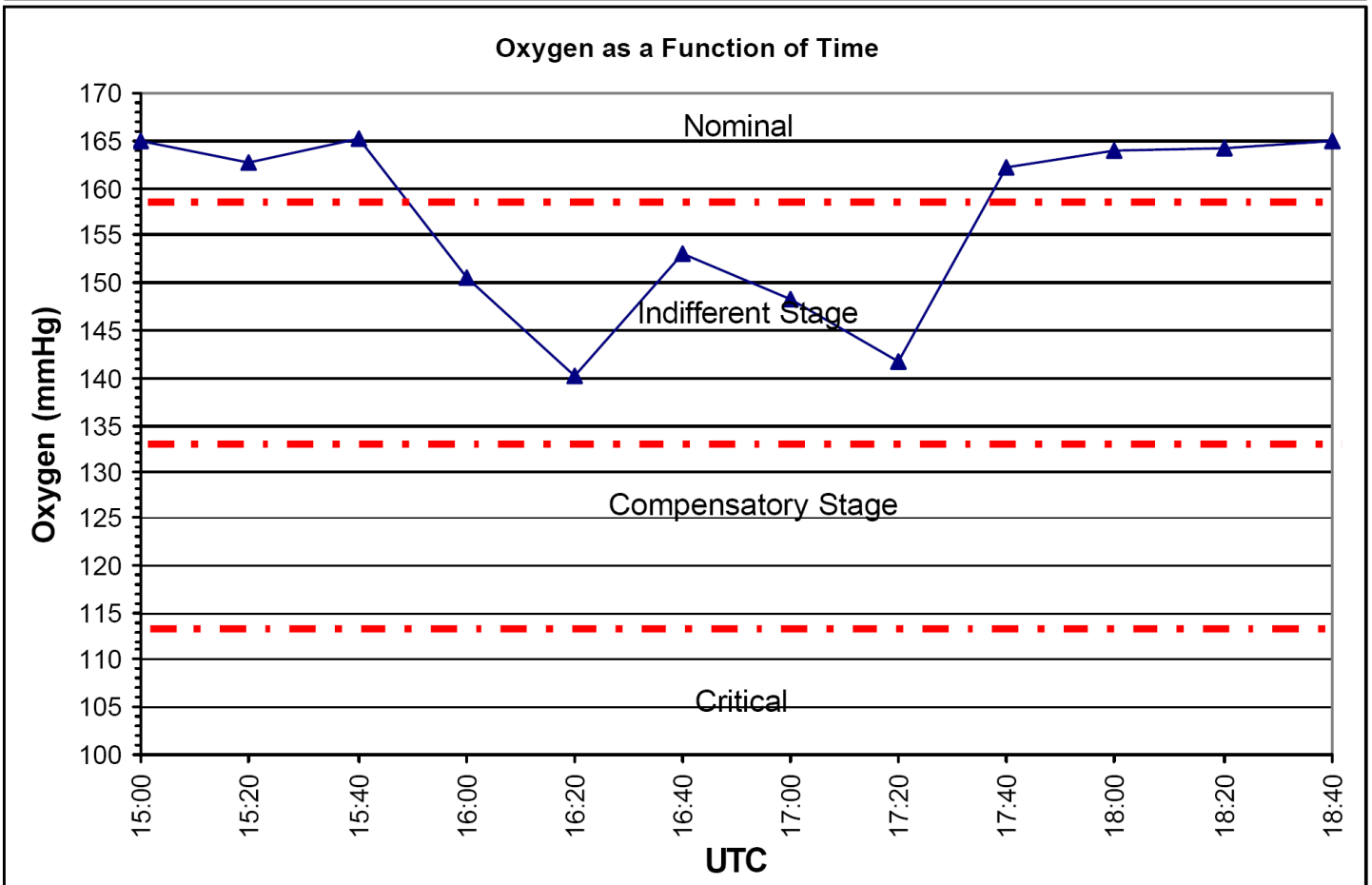
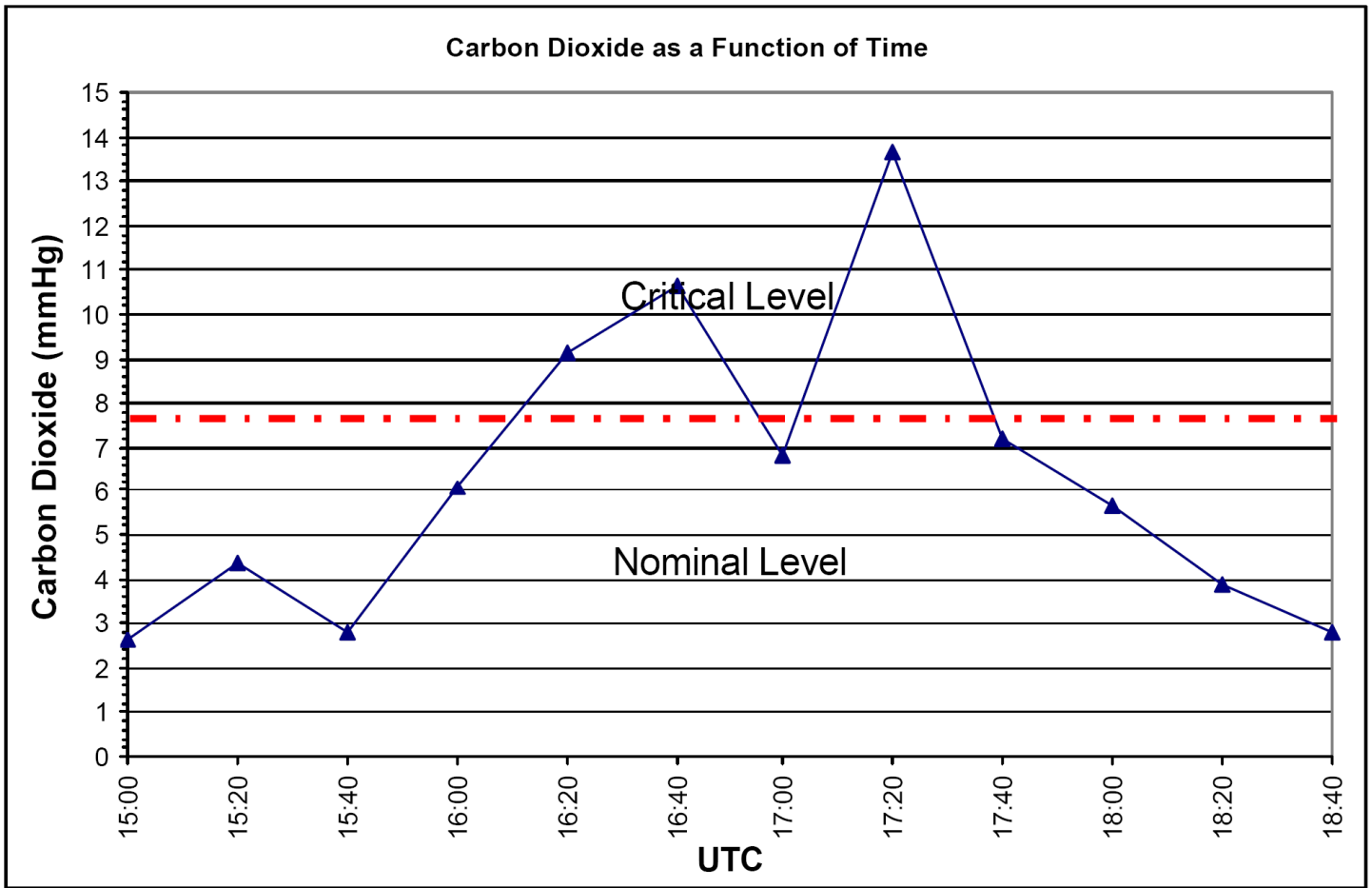
Oxygen (O<sup>2</sup>)

Carbon Dioxide (CO<sup>2</sup>)

Column	A	B	C (Graph this column)	D	E	F	G
Table Headings	UTC	Content of O <sup>2</sup> or CO <sup>2</sup>	Partial Pressure of O <sup>2</sup> or CO <sup>2</sup>	Change in O <sup>2</sup> or CO <sup>2</sup>	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 = $\frac{\text{Critical Value} - C}{E}$
<b>Examples and Practice</b>	15:00	21.70	164.92	n/a	n/a	n/a	n/a
	15:20	21.42	162.79	-2.13	-6.45	toward	7.41
	15:40	21.75	165.30	2.51	7.61	away	n/a
	16:00	19.80	150.48	-14.82	-44.91	toward	0.79
	16:20	18.45	140.22	-10.26	-31.09	toward	0.81
	16:40	20.15	153.14	12.92	39.15	away	n/a
	17:00	19.50	148.20	-4.94	-14.97	toward	2.22
	17:20	18.65	141.74	-6.46	-19.58	toward	1.37
	17:40	21.33	162.11	20.37	61.73	away	n/a
	18:00	21.56	163.86	1.75	5.30	away	n/a
	18:20	21.60	164.16	0.30	0.91	away	n/a

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

Practice 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	$D = \frac{B}{0.33}$	$E = \frac{100 - C}{D}$	$F = (D \times 24) + C$
<b>Examples and Practice</b>	15:00	0.43	0.43	1.30	76.59	31.63
	15:20	0.58	1.01	1.76	56.24	43.25
	15:40	1.67	2.68	5.06	19.23	124.12
	16:00	3.56	6.24	10.79	8.69	265.20
	16:20	5.01	11.25	15.18	5.85	375.57
	16:40	4.20	15.45	12.73	6.64	320.97
	17:00	1.83	17.28	5.55	14.90	150.48

Note: Round all calculations to two decimal places.

Circle One:

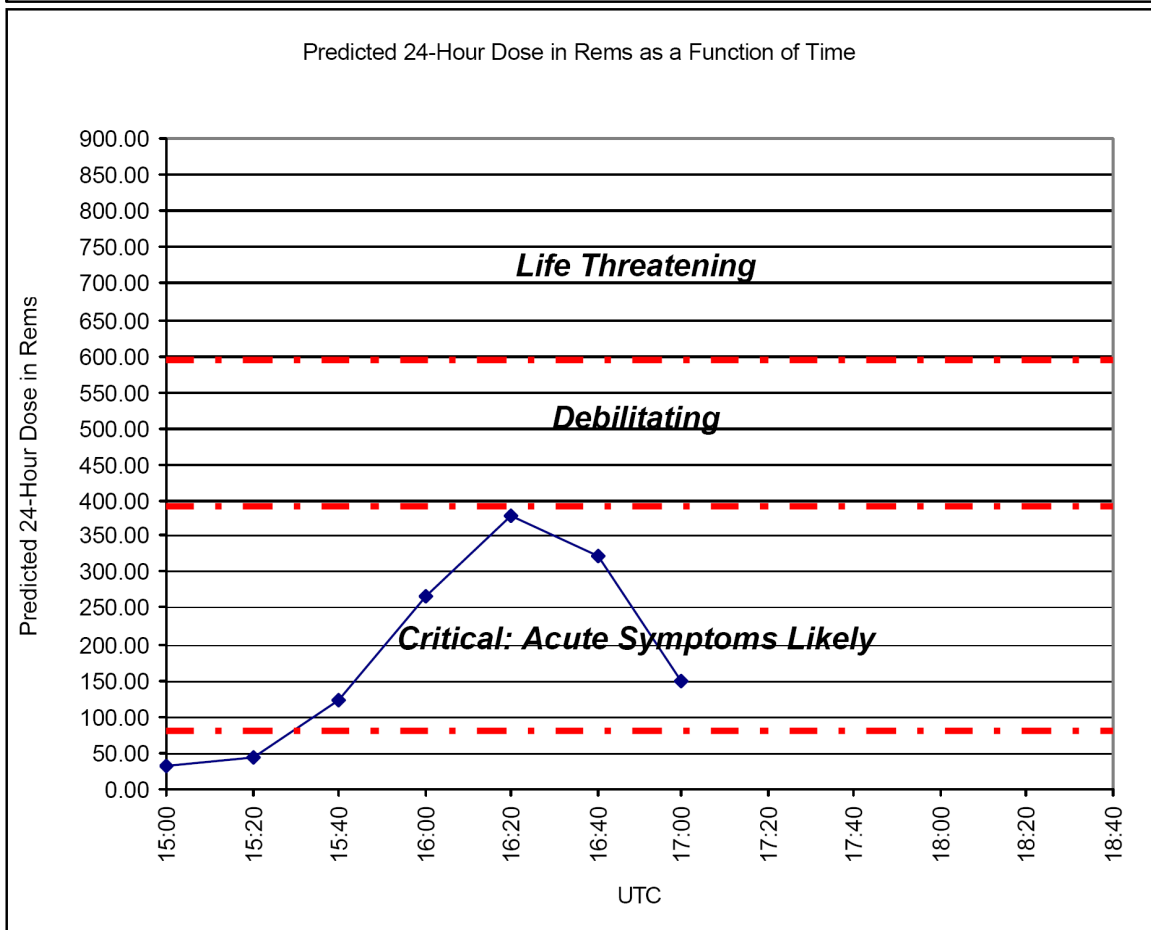
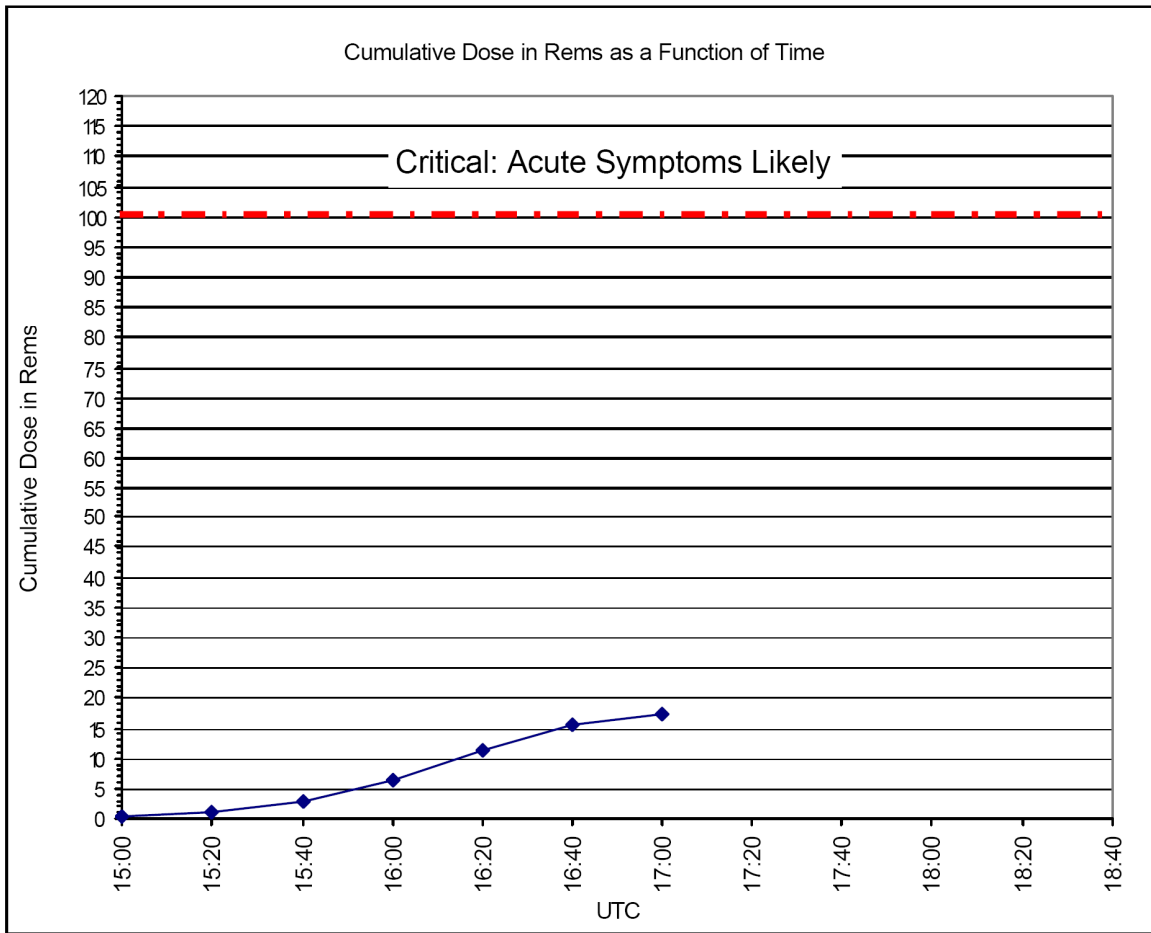
TEPC1 (Portable)

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	$D = \frac{B}{0.33}$	$E = \frac{100 - C}{D}$	$F = (D \times 24) + C$
<b>Examples and Practice</b>	15:00	0.43	0.43	1.30	76.59	31.63
	15:20	0.58	1.01	1.76	56.24	43.25
	15:40	1.67	2.68	5.06	19.23	124.12
	16:00	3.56	6.24	10.79	8.69	265.20
	16:20	5.01	11.25	15.18	5.85	375.57
	16:40	4.20	15.45	12.73	6.64	320.97
	17:00	1.83	17.28	5.55	14.90	150.48

Note: Round all calculations to two decimal places.

# Practice TEPC 1 & 2





# STORM Team

## Data Tracking Table: X-Ray Production



Column	A	B (Graph this column)	C	D	E	F	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
<b>Examples and Practice</b>	15:00	9	R1	n/a	n/a	n/a	n/a
	15:20	16	R1	7	.35	37	R1
	15:40	46	R1	30	1.5	136	R3
	16:00	1,250	R4	1,204	60.2	4,850	R5
	16:20	90	R2	-1,160	-58	0	n/a
	16:40	452	R3	362	18.1	1,538	R4
	17:00	892	R3	440	22	2,212	R5
	17:20	1,029	R4	137	6.85	1,440	R4
	17:40	1,876	R4	847	42.35	4,417	R5
	18:00	384	R3	-1,492	-74.6	0	n/a
	18:20	236	R3	-148	-7.4	0	n/a



# STORM Team

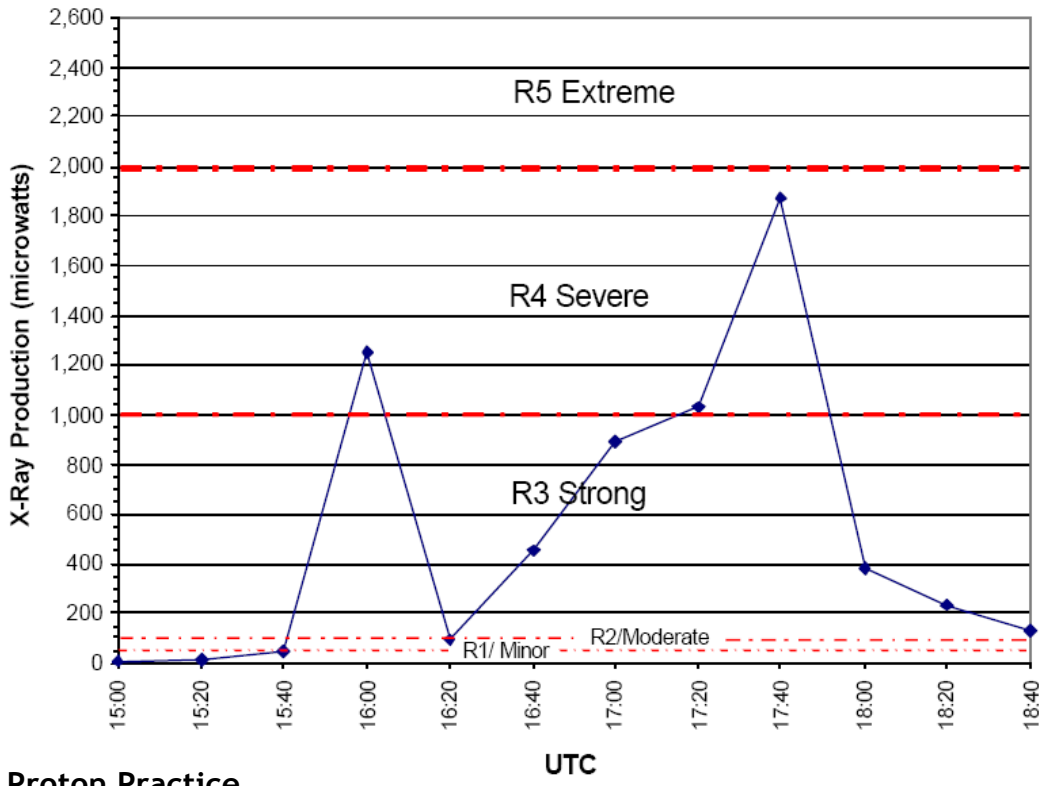
## Data Tracking Table: Proton Production



Column	A	B (Graph this column)	C	D	E	F (Use graph or charts)	G
Table Headings	UTC	Protons	Category	Change	Rate	Projected 24 Hour Proton Production	Category
Units	24-hour Clock	Amount of Protons	From S1 to S5	Amount of Protons	Proton/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
<b>Examples and Practice</b>	15:00	45	S1	n/a	n/a	n/a	n/a
	15:20	119	S2	74	3.7	5,447	S3
	15:40	1,310	S3	1,191	59.55	87,062	S4
	16:00	350	S2	-960	-48	0	n/a
	16:20	765	S2	415	20.75	29,880	S4
	16:40	1,890	S3	1,125	56.25	82,890	S4
	17:00	3,410	S3	1,520	76	112,850	S5
	17:20	2,525	S3	-885	-44.25	0	n/a
	17:40	4,100	S3	1,575	78.75	117,500	S5
	18:00	3,575	S3	-525	-26.25	0	n/a
	18:20	780	S2	-2,795	-139.75	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 Practice



### Proton Practice

