

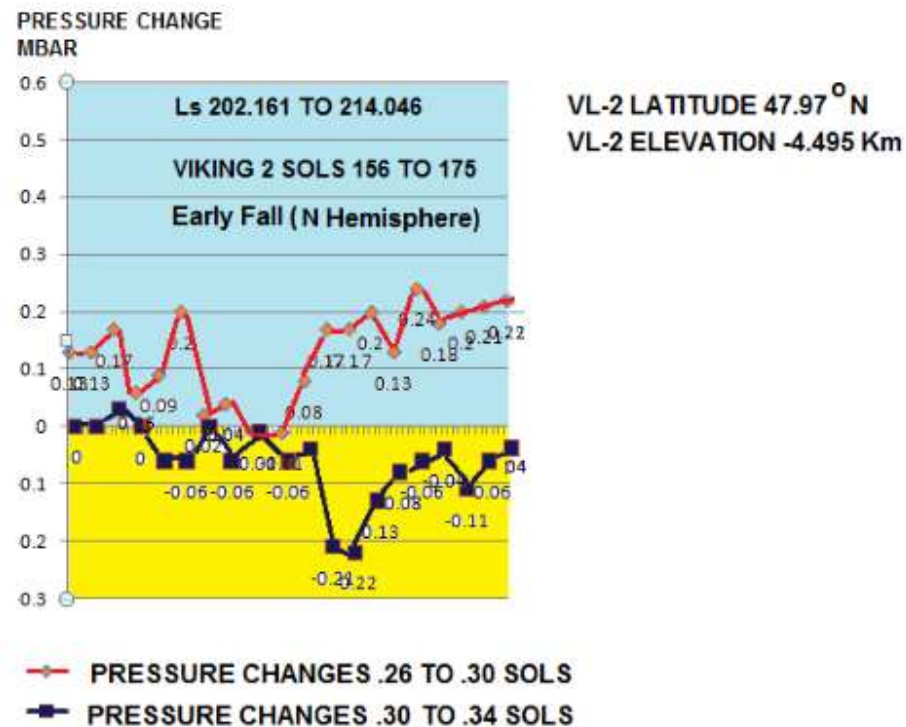
Annex B
to
Critique of All NASA Martian Weather Data, With Emphasis on Pressure

The Viking Project data divides every Martian day into 25 time-bins (hours), each ~59 minutes long (see Figure 30). Annex B (Viking 2 sols 156 to 361) emphasizes how pressures change during morning times-bins that correspond to 0630 to 0830.

Appendix 1	VL-2 pressures of .26 to .3 time-bins & .3 and .34 time-bins. Sols 156-175	131
Appendix 2	VL-2 pressures of .26 to .3 time-bins & .3 and .34 time-bins. Sols 176-199.	135
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Appendix 6	VL-2 pressures of .26 to .3 time-bins & .3 and .34 time-bins. Sols 306-361	160

ANNEX B APPENDIX 1 – VIKING 2 SOLS 156 TO 175

Data reformatted by David A. Roffman and Barry S. Roffman.



Source of Data: Dr. Tillman's web site at

http://www-k12.atmos.washington.edu/k12/resources/mars_data-information/data.html

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time- bin
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156.26	202.161	8.57			-100.83		
156.3	202.185	8.7	0.13		-97.64	3.19	
156.34	202.21	8.7		0	-88.32		9.32
157.26	202.776	8.39			-90.5		
157.3	202.801	8.52	0.13		-90.34	0.16	
157.34	202.825	8.52		0	-77.22		13.12
158.26	203.393	8.32			-104.87		
158.3	203.417	8.49	0.17		-102.92	1.95	
158.34	203.442	8.52		0.03	-98.01		4.91
159.26	204.01	8.73			-96.42		
159.3	204.034	8.79	0.06		-91.65	4.77	
159.34	204.059	8.79		0	-88.27		3.38
160.26	204.628	8.43			-93.41		
160.3	204.653	8.52	0.09		-93.01	0.4	
160.34	204.677	8.46		-0.06	-91.54		1.47
161.26	205.247	8.85			-106.86		
161.3	205.271	9.05	0.2		-103.22	3.64	
161.34	205.296	8.99		-0.06	-101.4		1.82
162.26	205.867	8.94			-98.37		
162.3	205.891	8.96	0.02		-95.77	2.6	
162.34	205.916	8.96		0	-91.15		4.62
163.26	206.487	8.63			-95.67		
163.3	206.512	8.67	0.04		-92.9	2.77	
163.34	206.537	8.61		-0.06	-81.69		11.21

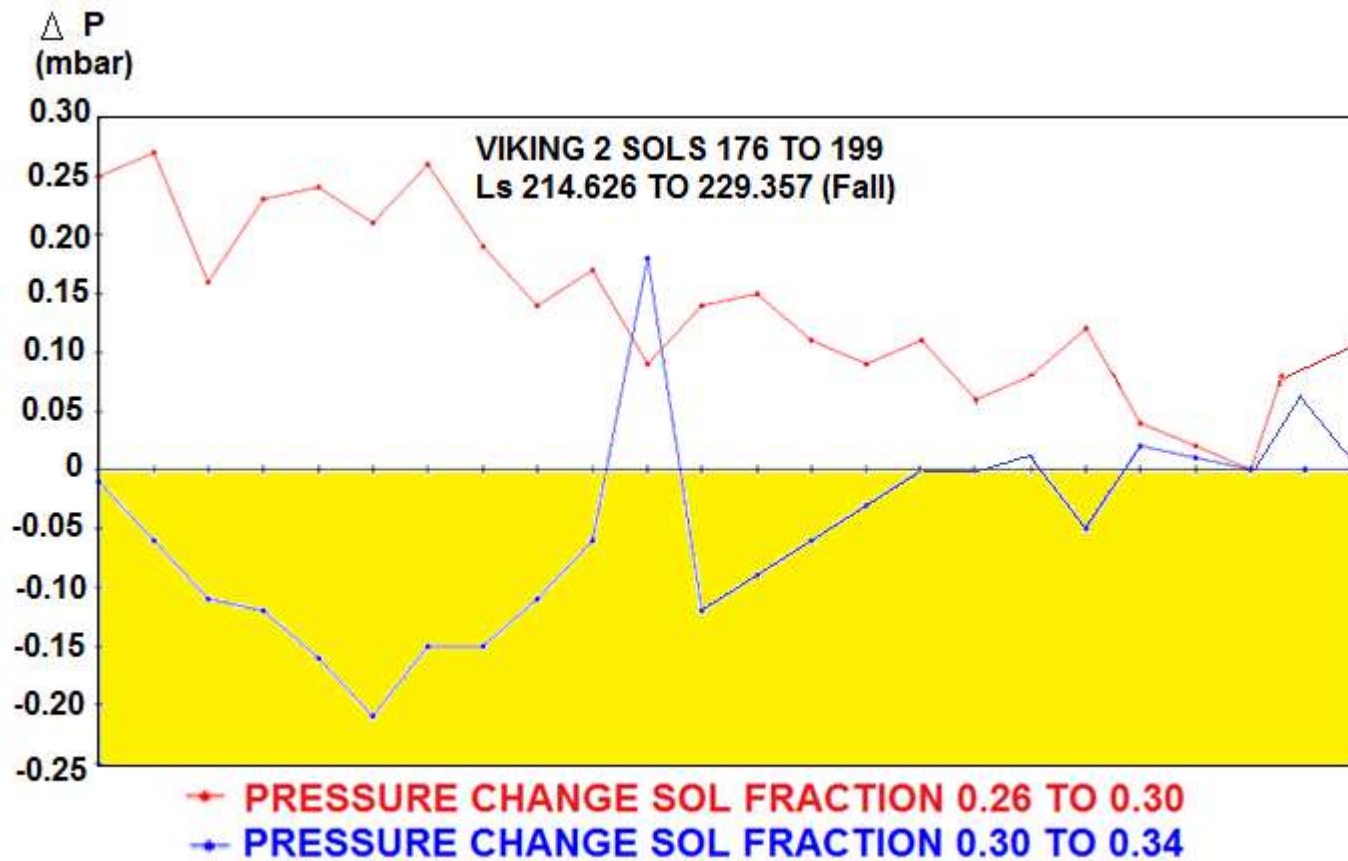
VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time- bin
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164.22		8.52					
164.26	207.108	8.68			-101.96		
164.3	207.133	8.67	-0.01		-100.94	1.02	
164.34	207.158	8.66		-0.01	-96.73		4.21
165.22		8.67					
165.26	207.731	8.77			-95.72		
165.3	207.756	8.76	-0.01		-93.87	1.85	
165.34	207.78	8.7		-0.06	-89.22		4.65
166.26	208.354	8.68			-105.55		
166.3	208.379	8.76	0.08		-103.83	1.72	
166.34	208.404	8.72		-0.04	-100.89		2.94
167.26	208.978	9.1			-95.71		
167.3	209.002	9.17	0.07		-93.53	2.18	
167.34	209.027	8.96		-0.21	-88.05		5.48
168.26	209.602	8.77			-94.21		
168.3	209.627	8.94	0.17		-90.87	3.34	
168.34	209.652	8.72		-0.22	-82.44		8.43
169.26	210.227	8.59			-101.53		
169.3	210.252	8.79	0.2		-101.49	0.04	
169.34	210.278	8.66		-0.13	-100.15		1.34
170.26	210.854	9.16			-104.74		
170.3	210.879	9.29	0.13		-103.37	1.37	
170.34	210.904	9.21		-0.08	-100.48		2.89

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time- bin
171.26	211.48	8.96			-91.17		
171.3	211.506	9.2	0.24		-95.12	-3.95	
171.34	211.531	9.14		-0.06	-90.12		5
172.26	212.108	8.96			-97.45		
172.3	212.133	9.14	0.18		-95.04	2.41	
172.34	212.158	9.1		-0.04	-91.09		3.95
173.26	212.737	8.74			-88.71		
173.3	212.762	8.94	0.2		-87.01	1.7	
173.34	212.787	8.83		-0.11	-85.14		1.87
174.26	213.366	9.01			-99.09		
174.3	213.391	9.22	0.21		-97.8	1.29	
174.34	213.416	9.16		-0.06	-95.49		2.31
175.26	213.996	8.74			-90.39		
175.3	214.021	8.96	0.22		-88.74	1.65	
175.34	214.046	8.92		-0.04	-87.88		0.86
AVERAGE			0.126	-0.0605	-94.95833	1.705	4.689

ANNEX B APPENDIX 2 – VIKING 2 SOLS 176 TO 199

Data reformatted by David A. Roffman and Barry S. Roffman.



Source of Data: Dr. Tillman's web site at

http://www-k12.atmos.washington.edu/k12/resources/mars_data-

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.26 to 0.34 Time- bin
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<i>information/data.html</i>							
176.26	214.626	9.01			-101.78		
176.3	214.651	9.26	0.25		-100.77	1.01	
176.34	214.677	9.25		-0.01	-97.58		3.19
177.26	215.258	9.02			-98.56		
177.30	215.283	9.29	0.27		-96.76	1.8	
177.34	215.308	9.23		-0.06	-90.31		6.45
178.26	215.89	9.07			-99.91		
178.30	215.915	9.23	0.16		-98.35	1.56	
178.34	215.94	9.12		-0.11	-93.86		4.49
179.26	216.522	8.94					
179.30	216.548	9.17	0.23		-91.33		
179.34	216.573	9.05		-0.12	-91.48	-0.15	
					-89.05		2.43
180.26	217.156	8.99					
180.30	217.181	9.23	0.24		-99.66		
180.34	217.206	9.07		-0.16	-96.72	2.94	
					-97.47		-0.75
181.26	217.79	8.99					
181.30	217.815	9.2	0.21		-101.3		
181.34	217.841	8.99		-0.21	-98.85	2.45	
					-92.2		6.65
182.26	218.425	9.12					
182.30	218.45	9.38	0.26		-106.97		

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.26 to 0.34 Time- bin
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182.34	218.475	9.23		-0.15	-106.18	0.79	
					-104.45		1.73
183.26	219.06	9.45					
183.30	219.085	9.64	0.19		-101.69		
183.34	219.111	9.49		-0.15	-101.19	0.5	
					-99.37		1.82
184.26	219.696	9.22					
184.30	219.721	9.36	0.14		-91.83		
184.34	219.747	9.25		-0.11	-91.23	0.6	
					-91.31		-0.08
185.26	220.333	9.32					
185.30	220.358	9.49	0.17		-106.49		
185.34	220.384	9.43		-0.06	-106.13	0.36	
					-102.9		3.23
186.26	220.97	9.14					
186.30	220.996	9.23	0.09		-100.7		
186.34	221.021	9.41		0.18	-98.79	1.91	
					-90.89		7.9
187.26	221.608	8.94					
187.30	221.633	9.08	0.14		-102.64		
187.34	221.659	8.96		-0.12	-102.77	-0.13	
					-99.72		3.05
188.26	222.246	9.52					
188.30	222.272	9.67	0.15		-106.53		
188.34	222.297	9.58		-0.09	-106.14	0.39	
					-103.98		2.16
189.26	222.885	9.38					
189.30	222.911	9.49	0.11		-99.16		
189.34	222.937	9.43		-0.06	-98.88	0.28	

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.26 to 0.34 Time- bin
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					-94.51		4.37
190.26	223.525	9.52					
190.30	223.551	9.61	0.09		-107.9		
190.34	223.576	9.58		-0.03	-107.05	0.85	
					-105.27		1.78
191.26	224.165	9.56					
191.30	224.191	9.67	0.11		-106.8		
191.34	224.217	9.67		0	-107	-0.2	
					-102.33		4.67
192.26	224.806	9.52					
192.30	224.832	9.58	0.06		-100.12		
192.34	224.857	9.58		0	-97.03	3.09	
					-93.37		3.66
193.26	225.447	9.49					
193.30	225.473	9.57	0.08		-100.36		
193.34	225.499	9.58		0.01	-96.27	4.09	
					-94.76		1.51
194.26	226.089	9.34					
194.30	226.115	9.46	0.12		-107.83		
194.34	226.141	9.41		-0.05	-108.03	-0.2	
					-105.89		2.14
195.26	226.732	9.61					
195.30	226.757	9.65	0.04		-109.09		
195.34	226.783	9.67		0.02	-106.98	2.11	
					-106.28		0.7
196.26	227.374	9.71					
196.30	227.4	9.73	0.02		-107.77		
196.34	227.426	9.74		0.01	-107.62	0.15	
					-105.73		1.89

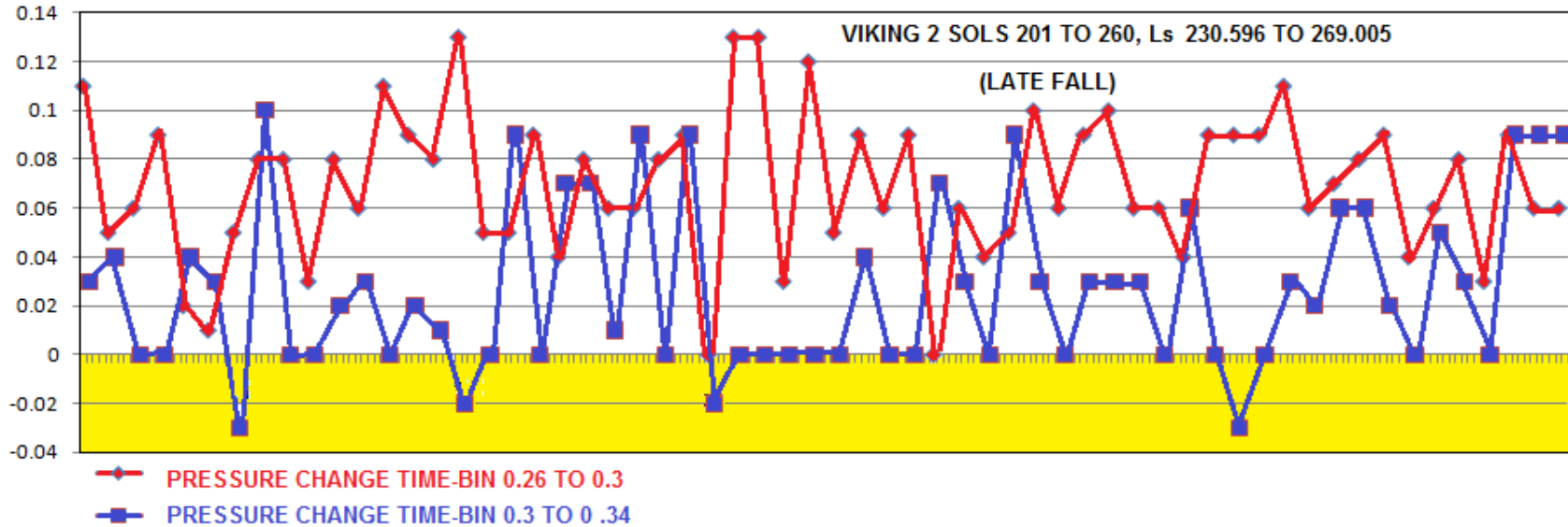
VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.26 to 0.34 Time- bin
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197.26	228.018	9.41					
197.30	228.043	9.41	0		-102.3		
197.34	228.069	9.41		0	-102.31	-0.01	
					-97.16		5.15
198.26	228.661	9.49					
198.30	228.687	9.57	0.08		-111.01		
198.34	228.713	9.63		0.06	-109.19	1.82	
					-107.51		1.68
199.26	229.306	9.63					
199.30	229.332	9.74	0.11		-106.87		
199.34	229.357	9.74		0	-106.62	0.25	
					-103.24		3.38
AVERAGES		9.3857	0.1383333	-0.05041667	-101.112	1.094167	3.05

ANNEX B APPENDIX 3 – VIKING 2 SOLS 201 TO 260

Data reformatted by David A. Roffman and Barry S. Roffman.

PRESSURE CHANGE
(MBAR)



Source of Data: Dr. Tillman's web site at

http://www-k12.atmos.washington.edu/k12/resources/mars_data-information/data.html

SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time-bin
201.26	230.596	9.71			-110.23		
201.3	230.622	9.82	0.11		-109.18	1.05	
201.34	230.647	9.85		0.03	-103.03		6.15

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time-bin
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202.26	231.241	9.89			-109.86		
202.3	231.267	9.94	0.05		-109.67	0.19	
202.34	231.293	9.98		0.04	-106.62		3.05
203.26	231.887	9.79			-102.38		
203.3	231.913	9.85	0.06		-101.38	1	
203.34	231.939	9.85		0	-97.7		3.68
204.26	232.534	9.32			-106.08		
204.3	232.56	9.41	0.09		-106.05	0.03	
204.34	232.586	9.41		0	-106		0.05
205.26	233.181	9.74			-110.26		
205.3	233.207	9.76	0.02		-110.14	0.12	
205.34	233.232	9.8		0.04	-107.74		2.4
206.26	233.828	9.54			-102.45		
206.3	233.854	9.55	0.01		-102.46	-0.01	
206.34	233.88	9.58		0.03	-100.78		1.68
207.26	234.476	9.65			-110.73		
207.3	234.501	9.7	0.05		-110.74	-0.01	
207.34	234.527	9.67		-0.03	-107.13		3.61
208.26	235.123	9.76			-111.4		
208.3	235.149	9.84	0.08		-110.05	1.35	
208.34	235.175	9.94		0.1	-108.68		1.37

Higher Appendix 3 to Annex B to Critique of All NASA Mars Weather Data Barry S. Roffman and David A. Roffman

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time- bin
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209.26	235.772	10			-110.54		
209.3	235.798	10.08	0.08		-110.23	0.31	
209.34	235.824	10.08		0	-108.62		1.61
210.26	236.42	9.91			-117.33		
210.3	236.446	9.94	0.03		-116.18	1.15	
210.34	236.472	9.94		0	-110.87		5.31
211.26	237.069	9.8			-116.69		
211.3	237.095	9.88	0.08		-117.84	-1.15	
211.34	237.121	9.9		0.02	-116.34		1.5
212.26	237.718	9.85			-100.61		
212.3	237.744	9.91	0.06		-101.19	-0.58	
212.34	237.77	9.94		0.03	-99.14		2.05
213.26	238.368	9.65			-108.99		
213.3	238.394	9.76	0.11		-109.08	-0.09	
213.34	238.42	9.76		0	-109.81		-0.73
214.26	239.018	9.91			-110.23		
214.3	239.044	10	0.09		-109.21	1.02	
214.34	239.07	10.02		0.02	-103.16		6.05
215.26	239.668	10			-110.98		
215.3	239.694	10.08	0.08		-111.45	-0.47	
215.34	239.72	10.09		0.01	-108.34		3.11
216.26	240.318	9.89			-105		

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time- bin
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216.3	240.344	10.02	0.13		-103.06	1.94	
216.34	240.37	10		-0.02	-102.7		0.36
217.26	240.968	9.71			-100.76		
217.3	240.994	9.76	0.05		-101.29	-0.53	
217.34	241.021	9.76		0	-100.24		1.05
218.26	241.619	9.71			-104.68		
218.3	241.645	9.76	0.05		-109.05	-4.37	
218.34	241.671	9.85		0.09	-102.93		6.12
219.26	242.27	9.82			-109.81		
219.3	242.296	9.91	0.09		-107.23	2.58	
219.34	242.322	9.91		0	-102.58		4.65
220.26	242.921	9.63			-112.16		
220.3	242.947	9.67	0.04		-112.57	-0.41	
220.34	242.973	9.74		0.07	-112.15		0.42
221.26	243.572	9.94			-107.23		
221.3	243.598	10.02	0.08		-111.06	-3.83	
221.34	243.624	10.09		0.07	-108.75		2.31
222.26	244.224	10.05			-108.78		
222.3	244.25	10.11	0.06		-108.84	-0.06	
222.34	244.276	10.12		0.01	-109.43		-0.59
223.26	244.875	10.14			-107.58		
223.3	244.901	10.2	0.06		-104.86	2.72	

Higher Appendix 3 to Annex B to Critique of All NASA Mars Weather Data Barry S. Roffman and David A. Roffman

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time- bin
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223.34	244.927	10.29		0.09	-105.45		-0.59
224.26	245.527	9.94			-103.4		
224.3	245.553	10.02	0.08		-102.79	0.61	
224.34	245.579	10.02		0	-101.62		1.17
225.26	246.179	10.02			-111.25		
225.3	246.205	10.11	0.09		-110.74	0.51	
225.34	246.231	10.2		0.09	-111.63		-0.89
226.3	246.857	10.02			-101.33		
226.34	246.883	10.02	0		-100.74	0.59	
226.38	246.909	10		-0.02	-99.36		1.38
227.26	247.483	9.89			-111.55		
227.3	247.509	10.02	0.13		-111.8	-0.25	
227.34	247.535	10.02		0	-111.8		0
228.26	248.135	10.07			-107.48		
228.3	248.161	10.2	0.13		-109.67	-2.19	
228.34	248.187	10.2		0	-103.65		6.02
229.26	248.787	9.91			-108.38		
229.3	248.813	9.94	0.03		-108.02	0.36	
229.34	248.839	9.94		0	-108.24		-0.22
230.26	249.439	9.88			-111.03		
230.3	249.465	10	0.12		-106.98	4.05	
230.34	249.491	10		0	-104.39		2.59

Higher Appendix 3 to Annex B to Critique of All NASA Mars Weather Data Barry S. Roffman and David A. Roffman

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time-bin
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231.26	250.091	9.71			-106.26		
231.3	250.117	9.76	0.05		-107.52	-1.26	
231.34	250.143	9.76		0	-107.78		-0.26
232.26	250.743	9.85			-113.8		
232.3	250.769	9.94	0.09		-109.83	3.97	
232.34	250.796	9.98		0.04	-111.7		-1.87
233.26	251.396	9.96			-106.78		
233.3	251.422	10.02	0.06		-106.58	0.2	
233.34	251.448	10.02		0	-104.03		2.55
234.26	252.048	9.85			-112.54		
234.3	252.074	9.94	0.09		-113.54	-1	
234.34	252.1	9.94		0	-114.34		-0.8
235.26	252.7	10.02			-109.18		
235.3	252.726	10.02	0		-113.22	-4.04	
235.34	252.752	10.09		0.07	-111.38		1.84
236.26	253.352	10.02			-109.77		
236.3	253.378	10.08	0.06		-106.85	2.92	
236.34	253.404	10.11		0.03	-103.55		3.3
237.26	254.004	9.98			-109.87		
237.3	254.03	10.02	0.04		-107.66	2.21	
237.34	254.056	10.02		0	-105.24		2.42

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time-bin
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238.26	254.656	9.71			-110.94		
238.3	254.682	9.76	0.05		-111.39	-0.45	
238.34	254.708	9.85		0.09	-110.93		0.46
239.26	255.308	9.98			-110.25		
239.3	255.334	10.08	0.1		-111.03	-0.78	
239.34	255.36	10.11		0.03	-111.48		-0.45
240.26	255.96	10.14			-111.01		
240.3	255.986	10.2	0.06		-108.98	2.03	
240.34	256.012	10.2		0	-106.12		2.86
241.26	256.611	9.82			-110.68		
241.3	256.638	9.91	0.09		-111.82	-1.14	
241.34	256.664	9.94		0.03	-111.84		-0.02
242.26	257.263	9.98			-113.24		
242.3	257.289	10.08	0.1		-112.32	0.92	
242.34	257.315	10.11		0.03	-111.12		1.2
243.26	257.915	10.14			-107.34		
243.3	257.941	10.2	0.06		-107.14	0.2	
243.34	257.966	10.23		0.03	-106.75		0.39
244.26	258.566	10.05			-104.97		
244.3	258.592	10.11	0.06		-105.37	-0.4	
244.34	258.618	10.11		0	-104.71		0.66
245.26	259.217	10.01			-110.1		

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time- bin
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245.3	259.243	10.05	0.04		-107.03	3.07	
245.34	259.269	10.11		0.06	-107.78		-0.75
246.26	259.868	10.02			-106.42		
246.3	259.894	10.11	0.09		-105.83	0.59	
246.34	259.92	10.11		0	-107.08		-1.25
247.26	260.518	10.02			-110.84		
247.3	260.544	10.11	0.09		-110.1	0.74	
247.34	260.57	10.08		-0.03	-105.39		4.71
248.26	261.169	9.67			-110.7		
248.3	261.195	9.76	0.09		-111.04	-0.34	
248.34	261.221	9.76		0	-110.98		0.06
249.26	261.819	9.8			-114.37		
249.3	261.845	9.91	0.11		-111.52	2.85	
249.34	261.871	9.94		0.03	-112.63		-1.11
250.26	262.469	9.94			-112.76		
250.3	262.495	10	0.06		-111.81	0.95	
250.34	262.521	10.02		0.02	-111.51		0.3
251.26	263.119	9.98			-107.09		
251.3	263.145	10.05	0.07		-107.17	-0.08	
251.34	263.171	10.11		0.06	-106.94		0.23
252.26	263.768	9.8			-113.22		

Higher Appendix 3 to Annex B to Critique of All NASA Mars Weather Data Barry S. Roffman and David A. Roffman

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time-bin
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252.3	263.794	9.88	0.08		-110.31	2.91	
252.34	263.82	9.94		0.06	-112.57		-2.26
253.26	264.418	9.91			-112.3		
253.3	264.444	10	0.09		-113.45	-1.15	
253.34	264.469	10.02		0.02	-113.47		-0.02
254.26	265.066	10.07			-113.79		
254.3	265.092	10.11	0.04		-110.9	2.89	
254.34	265.118	10.11		0	-107.83		3.07
255.26	265.715	9.76			-112.7		
255.3	265.741	9.82	0.06		-112.79	-0.09	
255.34	265.767	9.87		0.05	-112.75		0.04
256.26	266.363	10			-109.18		
256.3	266.389	10.08	0.08		-111.91	-2.73	
256.34	266.415	10.11		0.03	-111.37		0.54
257.26	267.011	10.08			-109.87		
257.3	267.037	10.11	0.03		-110.23	-0.36	
257.34	267.063	10.11		0	-109.08		1.15
258.26	267.659	10.02			-112.81		
258.3	267.685	10.11	0.09		-110.43	2.38	
258.34	267.711	10.2		0.09	-110.43		0
259.26	268.306	9.85			-108.8		
259.3	268.332	9.91	0.06		-108.05	0.75	

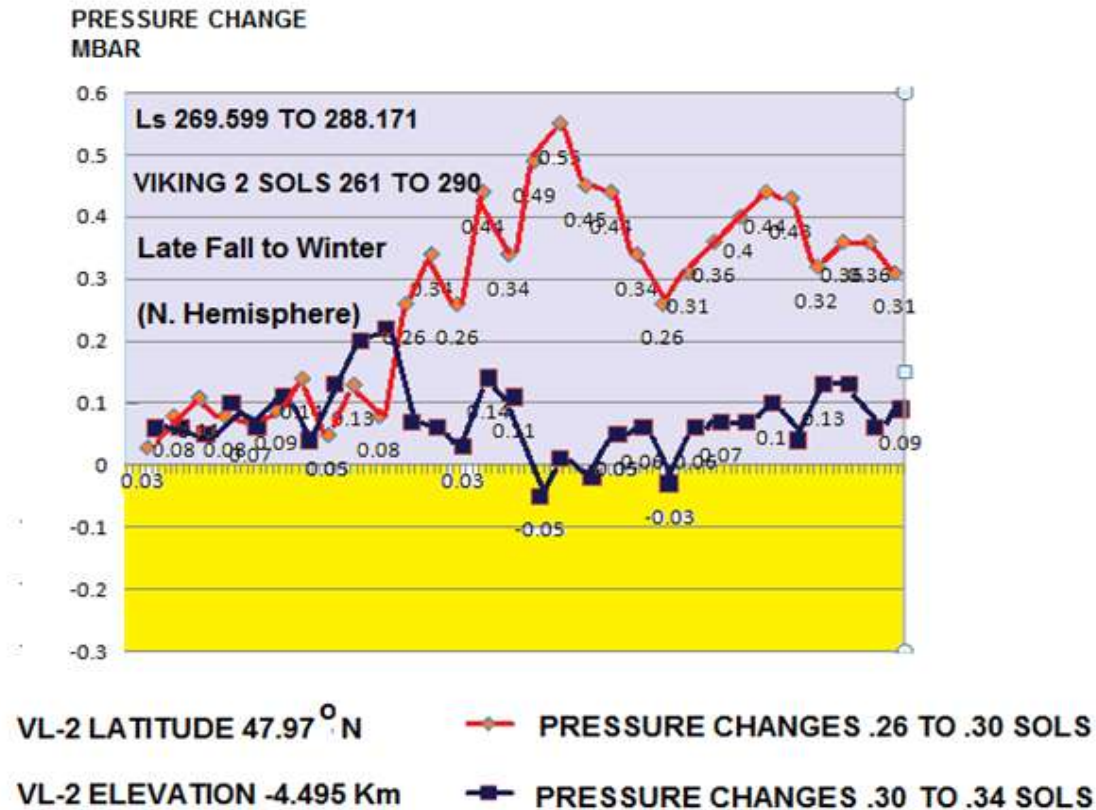
Higher Appendix 3 to Annex B to Critique of All NASA Mars Weather Data Barry S. Roffman and David A. Roffman

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time- bin
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259.34	268.358	10		0.09	-109.45		-1.4
260.26	268.953	9.96			-110.63		
260.3	268.979	10.02	0.06		-108.64	1.99	
260.34	269.005	10.11		0.09	-109.73		-1.09
AVERAGES			0.06983	0.0265	-108.66	0.38967	1.3195

ANNEX B APPENDIX 4 – VIKING 2 SOLS 261 TO 290

Data reformatted by David A. Roffman and Barry S. Roffman.



Source of Data: Dr. Tillman's web site at

http://www-k12.atmos.washington.edu/k12/resources/mars_data-information/data.html

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time- bin
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261.26	240.649	10.02			-105.91		
261.3	240.675	10.05	0.03		-104.72	1.19	
261.34	240.701	10.11		0.06	-106.65		-1.93
262.26	241.299	9.71			-110.72		
262.3	241.325	9.79	0.08		-111.77	-1.05	
262.34	241.351	9.85		0.06	-111.84		-0.07
263.26	241.95	9.89			-111.84		
263.3	241.976	10	0.11		-109.65	2.19	
263.34	242.002	10.05		0.05	-108.73		0.92
264.26	242.601	9.89			-110.46		
264.3	242.627	9.97	0.08		-111.38	-0.92	
264.34	242.653	10.07		0.1	-107.25		4.13
265.26	243.252	9.87			-108.08		
265.3	243.278	9.94	0.07		-106.37	1.71	
265.34	243.304	10		0.06	-105.31		1.06
266.26	243.904	9.91			-114.27		
266.3	243.93	10	0.09		-111.25	3.02	
266.34	243.956	10.11		0.11	-112.48		-1.23
267.26	244.555	9.8			-115.09		
267.3	244.581	9.94	0.14		-114.48	0.61	
267.34	244.607	9.98		0.04	-111.98		2.5

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time- bin
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268.26	245.207	10			-112.52		
268.3	245.233	10.05	0.05		-111.09	1.43	
268.34	245.259	10.18		0.13	-111.50		-0.41
269.26	245.859	9.58			-101.68		
269.3	245.885	9.71	0.13		-102.67	-0.99	
269.34	245.911	9.91		0.2	-102.58		0.09
270.26	246.51	9.55			-112.79		
270.3	246.536	9.63	0.08		-111.50	1.29	
270.34	246.562	9.85		0.22	-109.73		1.77
271.26	247.162	9.76			-112.26		
271.3	247.188	10.02	0.26		-110.70	1.56	
271.34	247.215	10.09		0.07	-105.03		5.67
272.26	247.814	9.83			-111.83		
272.3	247.84	10.17	0.34		-108.82	3.01	
272.34	247.866	10.23		0.06	-107.06		1.76
273.26	248.466	9.65			-111.73		
273.3	248.493	9.91	0.26		-107.59	4.14	
273.34	248.519	9.94		0.03	-105.91		1.68
274.26	249.119	9.76			-113.41		
274.3	249.145	10.2	0.44		-112.69	0.72	
274.34	249.171	10.34		0.14	-109.27		3.42
275.26	249.771	9.98			-111.80		

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time- bin
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275.3	249.797	10.32	0.34		-111.41	0.39	
275.34	249.823	10.43		0.11	-109.18		2.23
276.26	250.423	10.07			-110.67		
276.3	250.449	10.56	0.49		-109.39	1.28	
276.34	250.475	10.51		-0.05	-109.63		-0.24
277.26	251.075	10.16			-108.84		
277.3	251.101	10.71	0.55		-107.81	1.03	
277.34	251.127	10.72		0.01	-108.69		-0.88
278.26	251.727	10.11			-106.80		
278.3	251.753	10.56	0.45		-105.51	1.29	
278.34	251.779	10.54		-0.02	-106.01		-0.5
279.26	252.38	9.94			-105.25		
279.3	252.406	10.38	0.44		-104.64	0.61	
279.34	252.432	10.43		0.05	-104.29		0.35
280.26	253.032	9.89			-106.84		
280.3	253.058	10.23	0.34		-106.18	0.66	
280.34	253.084	10.29		0.06	-105.14		1.04
281.26	253.684	9.97			-108.75		
281.3	253.71	10.23	0.26		-108.16	0.59	
281.34	253.736	10.2		-0.03	-108.11		0.05
282.26	254.336	10.01			-109.76		
282.3	254.362	10.32	0.31		-109.72	0.04	

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time- bin
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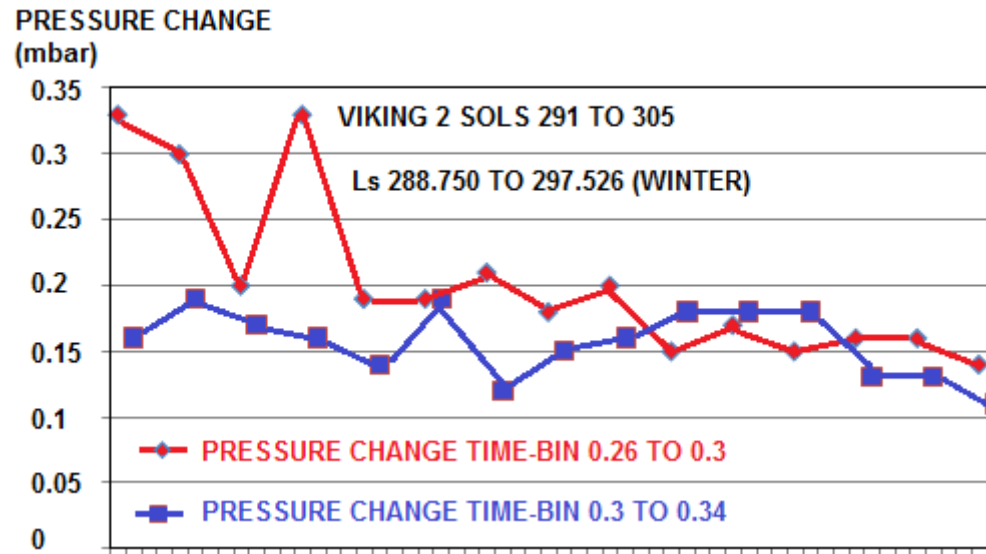
282.34	254.388	10.38		0.06	-109.97		-0.25
283.26	254.988	10.02			-110.69		
283.3	255.014	10.38	0.36		-110.38	0.31	
283.34	255.04	10.45		0.07	-110.42		-0.04
284.26	255.64	10.16			-110.16		
284.3	255.666	10.56	0.4		-109.65	0.51	
284.34	255.692	10.63		0.07	-109.43		0.22
285.26	256.291	10.18			-109.98		
285.3	256.317	10.62	0.44		-109.29	0.69	
285.34	256.343	10.72		0.1	-109.49		-0.2
286.26	256.943	10.16			-109.09		
286.3	256.969	10.59	0.43		-108.44	0.65	
286.34	256.995	10.63		0.04	-108.73		-0.29
287.26	257.594	10.09			-109.32		
287.3	257.62	10.41	0.32		-108.84	0.48	
287.34	257.646	10.54		0.13	-109.06		-0.22
288.26	258.246	10.11			-109.11		
288.3	258.272	10.47	0.36		-108.91	0.2	
288.34	258.298	10.6		0.13	-108.91		0
289.26	258.897	10.05			-110.24		
289.3	258.923	10.41	0.36		-109.19	1.05	
289.34	258.949	10.47		0.06	-109.53		-0.34

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time- bin
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290.26	259.548	10.07			-110.02		
290.3	259.574	10.38	0.31		-109.78	0.24	
290.34	259.6	10.47		0.09	-109.94		-0.16
AVERAGE		9.93267	0.27733	0.07367	-109.153	0.931	0.6193

ANNEX B APPENDIX 5 – VIKING 2 SOLS 291 TO 305

Data reformatted by David A. Roffman and Barry S. Roffman.



Source of Data: Dr. Tillman's web site at

http://www-k12.atmos.washington.edu/k12/resources/mars_data-information/data.html

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time- bin
291.26	288.75	10.14			-110.27		
291.3	288.775	10.47	0.33		-109.64	0.63	

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time- bin
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291.34	288.8	10.63		0.16	-109.46		0.18
292.26	289.378	10.14			-110.17		
292.3	289.404	10.44	0.3		-109.68	0.49	
292.34	289.429	10.63		0.19	-109.59		0.09
293.26	290.006	10.18			-110.29		
293.3	290.031	10.38	0.2		-110.27	0.02	
293.34	290.056	10.55		0.17	-110.12		0.15
294.26	290.633	10.05			-111.15		
294.3	290.658	10.38	0.33		-110.83	0.32	
294.34	290.683	10.54		0.16	-110.65		0.18
295.26	291.259	10.07			-112.06		
295.3	291.284	10.26	0.19		-111.89	0.17	
295.34	291.309	10.4		0.14	-111.93		-0.04
296.26	291.885	10.07			-110.61		
296.3	291.91	10.26	0.19		-110.42	0.19	
296.34	291.935	10.45		0.19	-110.02		0.4
297.26	292.509	10.14			-110.43		
297.3	292.534	10.35	0.21		-110.31	0.12	
297.34	292.559	10.47		0.12	-109.95		0.36
298.26	293.133	10.14			-110.34		
298.3	293.158	10.32	0.18		-110.1	0.24	
298.34	293.183	10.47		0.15	-109.45		0.65

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time- bin
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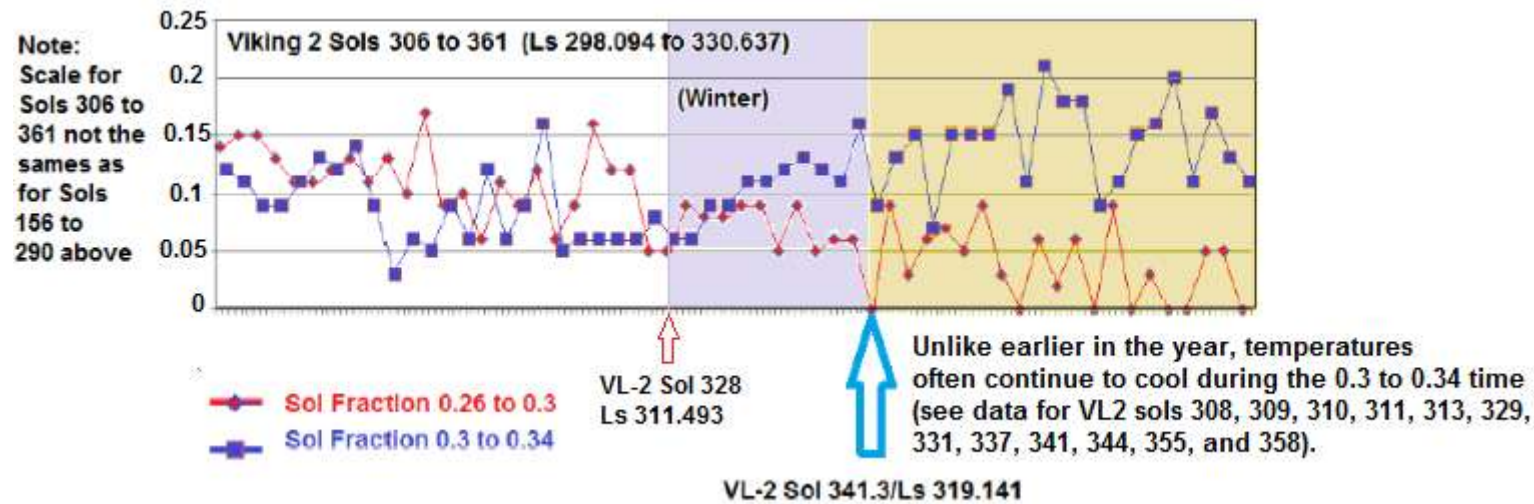
299.26	293.756	10.09			-110.56		
299.3	293.781	10.29	0.2		-110.34	0.22	
299.34	293.806	10.45		0.16	-109.97		0.37
300.26	294.378	10.05			-110.16		
300.3	294.403	10.2	0.15		-110.24	-0.08	
300.34	294.428	10.38		0.18	-110		0.24
301.26	295	9.94			-111.25		
301.3	295.024	10.11	0.17		-111.37	-0.12	
301.34	295.049	10.29		0.18	-111.16		0.21
302.26	295.62	9.96			-112.64		
302.3	295.645	10.11	0.15		-112.36	0.28	
302.34	295.67	10.29		0.18	-112.25		0.11
303.26	296.24	9.98			-112.9		
303.3	296.265	10.14	0.16		-112.85	0.05	
303.34	296.29	10.27		0.13	-112.73		0.12
304.26	296.859	9.98			-112.97		
304.3	296.884	10.14	0.16		-112.57	0.4	
304.34	296.908	10.27		0.13	-112.79		-0.22
305.26	297.477	10.02			-113.39		
305.3	297.502	10.16	0.14		-113.82	-0.43	
305.34	297.526	10.27		0.11	-112.76		1.06

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time- bin
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AVERAGES		10.2516 mbar	0.2040 mbar	0.1567 mbar	-111.0824	0.1667	0.2573
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ANNEX B APPENDIX 6 – VIKING 2 SOLS 306 TO 361

Data reformatted by David A. Roffman and Barry S. Roffman.



Source of Data: Dr. Tillman's web site at

http://www-k12.atmos.washington.edu/k12/resources/mars_data-information/data.html

SOL	Ls	PRESSURE mbar	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.26 to 0.34 Time- bin
306.26	298.094	9.94			-113.42		
306.3	298.119	10.08	0.14		-114.55	-1.13	
306.34	298.143	10.2		0.12	-111.57		2.98

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time- bin
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307.26	298.71	9.85			-113.25		
307.3	298.735	10	0.15		-112.52	0.73	
307.34	298.76	10.11		0.11	-107.82		4.7
308.26	299.326	9.96			-113.58		
308.3	299.35	10.11	0.15		-113.65	-0.07	
308.34	299.375	10.2		0.09	-114.03		-0.38
309.26	299.941	9.98			-113.99		
309.3	299.965	10.11	0.13		-114.08	-0.09	
309.34	299.99	10.2		0.09	-115.05		-0.97
310.26	300.554	9.94			-113.82		
310.3	300.579	10.05	0.11		-113.82	0	
310.34	300.603	10.16		0.11	-114.29		-0.47
311.26	301.167	9.94			-114.25		
311.3	301.192	10.05	0.11		-113.79	0.46	
311.34	301.216	10.18		0.13	-113.83		-0.04
312.26	301.779	9.96			-114.71		
312.3	301.803	10.08	0.12		-114.04	0.67	
312.34	301.828	10.2		0.12	-113.2		0.84
313.26	302.39	9.89			-112.25		
313.3	302.414	10.02	0.13		-112.41	-0.16	
313.34	302.439	10.16		0.14	-112.54		-0.13
314.26	303	9.87			-112.29		

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time- bin
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314.3	303.025	9.98	0.11		-112.46	-0.17	
314.34	303.049	10.07		0.09	-112.04		0.42
315.26	303.609	9.78			-112.64		
315.3	303.634	9.91	0.13		-111.13	1.51	
315.34	303.658	9.94		0.03	-110.86		0.27
316.26	304.218	9.69			-113.72		
316.3	304.242	9.79	0.1		-113.49	0.23	
316.34	304.266	9.85		0.06	-113.25		0.24
317.26	304.825	9.76			-114.97		
317.3	304.85	9.93	0.17		-114.25	0.72	
317.34	304.874	9.98		0.05	-113.78		0.47
318.26	305.432	9.82			-113.86		
318.3	305.456	9.91	0.09		-113.67	0.19	
318.34	305.48	10		0.09	-113.65		0.02
319.26	306.037	9.78			-113		
319.3	306.062	9.88	0.1		-112.59	0.41	
319.34	306.086	9.94		0.06	-110.52		2.07
320.26	306.642	9.76			-112.93		
320.3	306.666	9.82	0.06		-112.68	0.25	
320.34	306.69	9.94		0.12	-112.29		0.39
321.26	307.246	9.65			-111.18		
321.3	307.27	9.76	0.11		-111.52	-0.34	
321.34	307.294	9.82		0.06	-106.29		5.23

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time- bin
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322.26	307.848	9.67			-113.76		
322.3	307.873	9.76	0.09		-113.78	-0.02	
322.34	307.897	9.85		0.09	-113.52		0.26
323.26	308.45	9.67			-112.6		
323.3	308.474	9.79	0.12		-112.71	-0.11	
323.34	308.498	9.85		0.16	-111.39		1.32
324.26	309.051	9.67			-111.72		
324.3	309.075	9.73	0.06		-109.83	1.89	
324.34	309.099	9.78		0.05	-107.92		1.91
325.26	309.651	9.67			-111.73		
325.3	309.675	9.76	0.09		-111.85	-0.12	
325.34	309.699	9.82		0.06	-109.52		2.33
326.26	310.25	9.56			-110.12		
326.3	310.274	9.61	0.16		-104.94	5.18	
326.34	310.298	9.67		0.06	-104.59		0.35
327.26	310.848	9.49			-113.39		
327.3	310.872	9.61	0.12		-113.03	0.36	
327.34	310.896	9.67		0.06	-113.03		0
328.26	311.445	9.58			-112.82		
328.3	311.469	9.7	0.12		-116.34	-3.52	
328.34	311.493	9.76		0.06	-113.68		2.66

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time- bin
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329.26	312.041	9.54			-112.13		
329.3	312.065	9.59	0.05		-109.93	2.2	
329.34	312.089	9.67		0.08	-110.32		-0.39
330.26	312.636	9.47			-103.99		
330.3	312.66	9.52	0.05		-105.31	-1.32	
330.34	312.684	9.58		0.06	-104.53		0.78
331.26	313.23	9.32			-112.17		
331.3	313.254	9.41	0.09		-112.82	-0.65	
331.34	313.278	9.47		0.06	-113.85		-1.03
332.26	313.824	9.41			-113.46		
332.3	313.847	9.49	0.08		-113.46	0	
332.34	313.871	9.58		0.09	-113.23		0.23
333.26	314.416	9.41			-112.32		
333.3	314.439	9.49	0.08		-112.12	0.2	
333.34	314.463	9.58		0.09	-110.05		2.07
334.26	315.007	9.32			-111.53		
334.3	315.031	9.41	0.09		-111.56	-0.03	
334.34	315.054	9.52		0.11	-109.06		2.5
335.26	315.597	9.43			-110.44		
335.3	315.621	9.52	0.09		-112.34	-1.9	
335.34	315.644	9.63		0.11	-112.48		-0.14
336.26	316.186	9.41			-105.28		

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time- bin
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336.3	316.21	9.46	0.05		-108.58	-3.3	
336.34	316.234	9.58		0.12	-107.3		1.28
337.26	316.775	9.23			-111.55		
337.3	316.798	9.32	0.09		-109.56	1.99	
337.34	316.822	9.45		0.13	-109.7		-0.14
338.26	317.362	9.41			-113.03		
338.3	317.385	9.46	0.05		-112.97	0.06	
338.34	317.409	9.58		0.12	-112.79		0.18
339.26	317.948	9.32			-109.75		
339.3	317.972	9.38	0.06		-109.63	0.12	
339.34	317.995	9.49		0.11	-106.44		3.19
340.26	318.533	9.14			-108.91		
340.3	318.557	9.2	0.06		-109.48	-0.57	
340.34	318.58	9.36		0.16	-107.97		1.51
341.26	319.118	9.32			-108.72		
341.3	319.141	9.32	0		-111.41	-2.69	
341.34	319.164	9.41		0.09	-112.68		-1.27
342.26	319.701	9.32			-112.26		
342.3	319.724	9.41	0.09		-112.22	0.04	
342.34	319.747	9.54		0.13	-108.11		4.11
343.26	320.283	9.23			-104.03		
343.3	320.306	9.26	0.03		-102.69	1.34	

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time- bin
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343.34	320.33	9.41		0.15	-101.77		0.92
344.26	320.864	9.32			-112.08		
344.3	320.888	9.38	0.06		-111.9	0.18	
344.34	320.911	9.45		0.07	-112.12		-0.22
345.26	321.445	9.25			-110.02		
345.3	321.468	9.32	0.07		-110.15	-0.13	
345.34	321.491	9.47		0.15	-108.28		1.87
346.26	322.024	9.27			-103.16		
346.3	322.047	9.32	0.05		-104.45	-1.29	
346.34	322.07	9.47		0.15	-102.01		2.44
347.26	322.602	9.23			-113.71		
347.3	322.625	9.32	0.09		-112.71	1	
347.34	322.648	9.47		0.15	-113.9		-1.19
348.26	323.179	9.32			-108.97		
348.3	323.202	9.35	0.03		-109.77	-0.8	
348.34	323.226	9.54		0.19	-107.72		2.05
349.26	323.756	9.05			-100.06		
349.3	323.779	9.05	0		-102.13	-2.07	
349.34	323.802	9.16		0.11	-100.43		1.7
350.26	324.331	9.14			-111.2		
350.3	324.354	9.2	0.06		-108.94	2.26	
350.34	324.377	9.41		0.21	-108.82		0.12

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time- bin
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351.26	324.905	9.21			-108.61		
351.3	324.928	9.23	0.02		-109.79	-1.18	
351.34	324.951	9.41		0.18	-106.15		3.64
352.26	325.478	8.9			-107.47		
352.3	325.501	8.96	0.06		-109.07	-1.6	
352.34	325.524	9.14		0.18	-108.28		0.79
353.26	326.05	9.23			-111.99		
353.3	326.073	9.32	0		-112.52	-0.53	
353.34	326.096	9.45		0.09	-111.65		0.87
354.26	326.622	9.32			-109.49		
354.3	326.645	9.41	0.09		-109.7	-0.21	
354.34	326.667	9.52		0.11	-109.32		0.38
355.26	327.192	9.23			-99.33		
355.3	327.215	9.23	0		-99.25	0.08	
355.34	327.237	9.38		0.15	-101.21		-1.96
356.26	327.761	8.88			-103.49		
356.3	327.784	8.91	0.03		-105.11	-1.62	
356.34	327.807	9.07		0.16	-102.88		2.23
357.26	328.329	9.14			-107.19		
357.3	328.352	9.14	0		-107.14	0.05	
357.34	328.375	9.34		0.2	-106.75		0.39

VL-2 SOL	Ls	Pressure (mbar)	ΔP 0.26 to .3 Time-bin (mbar)	ΔP .3 to .34 Time-bin (Mbar)	Temperature °C	$\Delta T^{\circ}C$.26 to .3 Time-bin	$\Delta T^{\circ}C$.3 to 0.34 Time- bin
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358.26	328.896	8.88			-103.97		
358.3	328.919	8.88	0		-104.57	-0.6	
358.34	328.942	8.99		0.11	-104.75		-0.18
359.26	329.463	8.94			-111.92		
359.3	329.485	8.99	0.05		-111.87	0.05	
359.34	329.508	9.16		0.17	-108.88		2.99
360.26	330.028	9.27			-110.59		
360.3	330.05	9.32	0.05		-110.74	-0.15	
360.34	330.073	9.45		0.13	-110.54		0.2
361.26	330.592	9.14			-107.78		
361.3	330.614	9.14	0		-108.53	-0.75	
361.34	330.637	9.25		0.11	-107.47		1.06
AVERAGES			0.076607	0.111429	-110.275	-0.088393	0.99017857