

ANNEX F TO CRITIQUE OF ALL NASA MARS WEATHER DATA,  
WITH EMPHASIS ON PRESSURE:

Percent Difference Flow Chart for Viking-1 Sols 1 to 113, and 134 to 350

(Based on data from [http://www-k12.atmos.washington.edu/k12/resources/mars\\_data-information/data.html](http://www-k12.atmos.washington.edu/k12/resources/mars_data-information/data.html))

Annex F sums up the percent differences between Viking-1 measured pressures, for its Sols 1 to 113 and 134 to 350, and its predicted pressures as found in Appendices 1 and 2 to Annex D. Annex F only shows whether each pressure predicted had less than a 2% percent difference from what was measured. Where this was the case, the cell appears in red and the temperature (Kelvin) is indicated with white font in the red cell. Where the percent difference was greater than 2%, the cell is left uncolored. From Annex F it is readily apparent that when the heater had to come, the pressure at the transducer was forced up and into line with the pressure predicted for a gas being heated in a confined (dust clot,

sealed space). For example, there was less than a 2% difference at the 0.3 time-bins every day between VL-1 sols 211 and 287. This corresponds to about 7:23 AM Local True Solar Time, a good time to warm up equipment for morning operations. There was also a consistent series of good agreements with the predictions for afternoon operations and late night operations when it was necessary to prevent damage to the lander equipment. The time of the best agreement shifted as the year progressed from summer to winter. Figure 1 shows the overall success rate for predicting pressures in each cell (336 sols \* 25 time-bins per cell = 8,400 predictions).

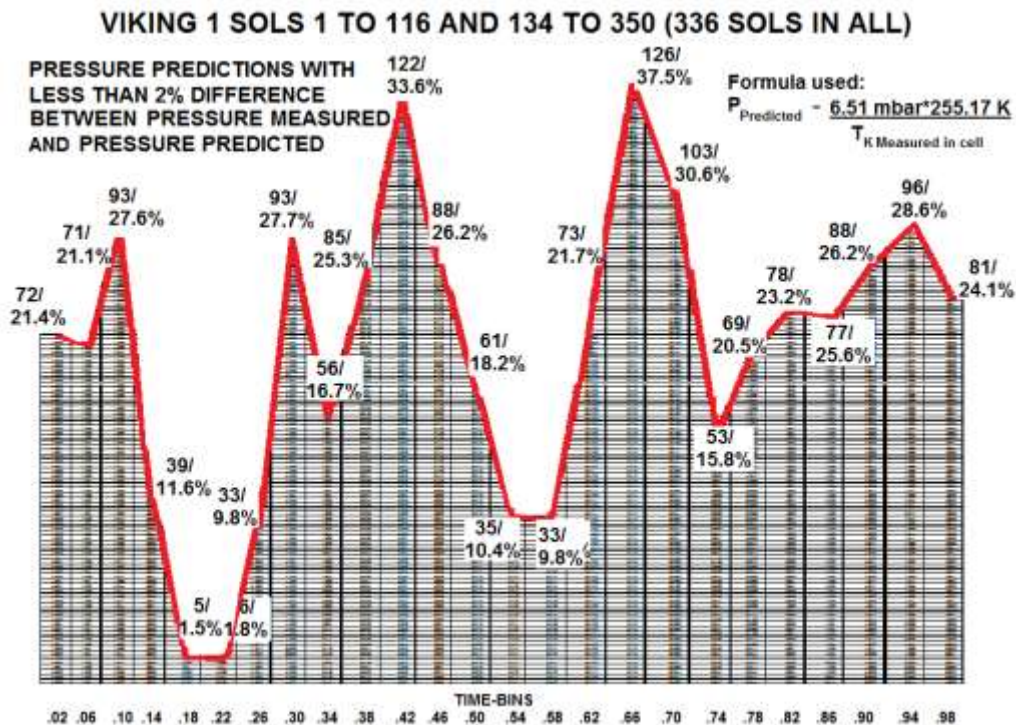
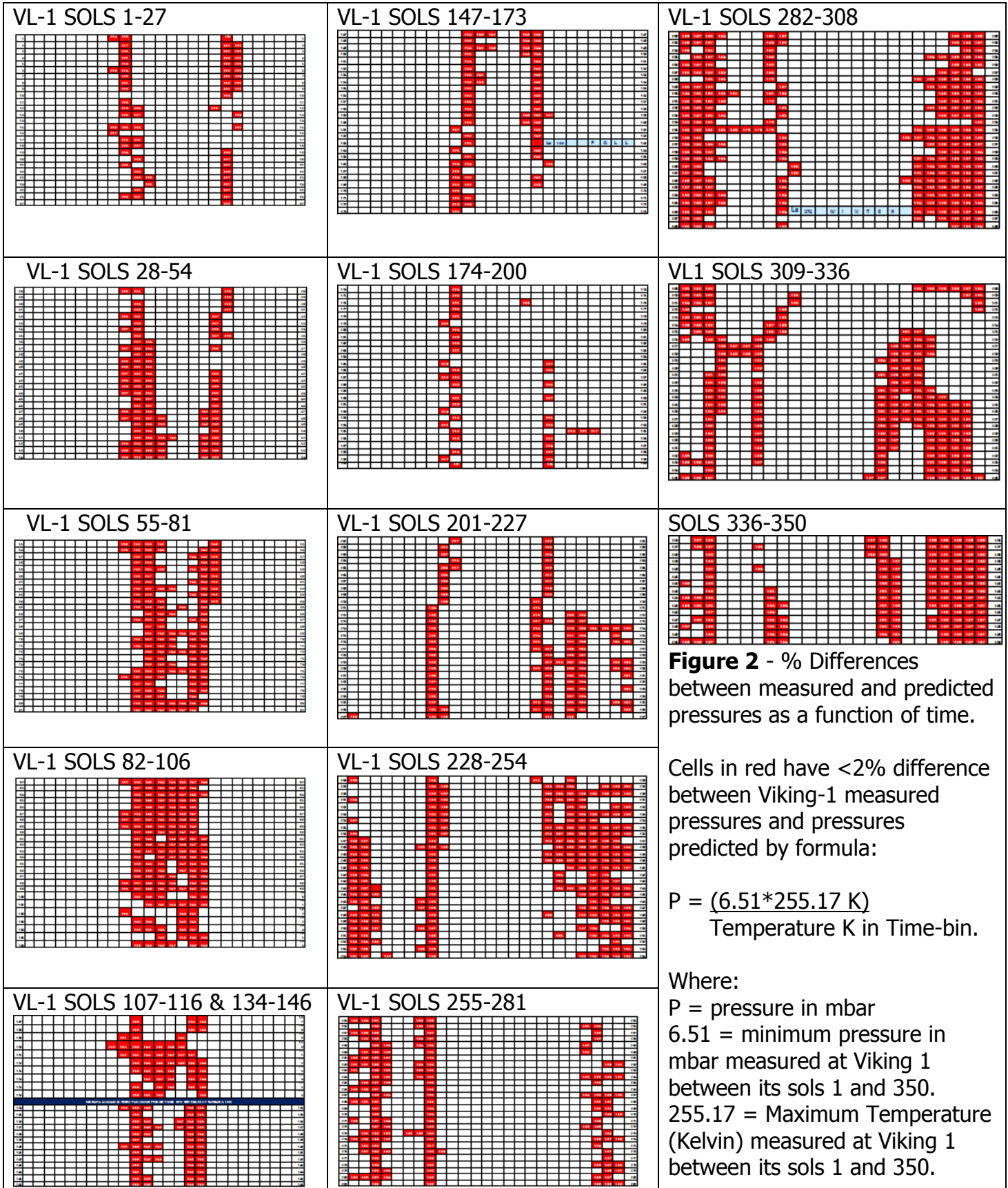


Figure 1 – Prediction success totals per time-bin and corresponding % of successful predictions.



It can be seen from Figure 2 that there was a first degree of moderate success in accurately predicting pressures in the mornings around the .38 and .42 time bins from the Viking-1 landing until its Sol 116 when data suddenly stopped until sol 134. There was also a good degree of success in making predictions in the afternoons for the 0.7 to the 0.78 time-bins, gradually shifting to the 0.62 to 0.66 time-bins, then merging with the morning success just before data stopped. So the predictions became accurate for the time-bins from about 0.42 to 0.66. This was all in the summer.

After the data break, predictions were generally better than 2% off for the 0.42, 0.62 and 0.66 time-bins for the rest of the summer. As fall ensued, the morning accuracy shifted earlier into the 0.38, then 0.34 and finally the 0.3 time-bin that first caught my attention.

In line with the expectation that the heater would have to come on and increase pressures the most as it got colder outside, the predictions grew better over more night time-bins as the fall came to an end and winter ensued. As the study came to an end on sol 350, there were often very accurate predictions for the hours centering around midnight and for several hours on either side of that time.

Professor James Tillman has been helpful a number of times in this study, which could never have occurred without his Viking Project's efforts in posting the data that my father and I to reformat and manipulate. However, the one question that Professor Tillman has not answered pertains to the thermostat or timer employed for the RTGs. Just

what caused the heaters to come on when they did? At best, without a definitive answer from him, his team, or other competent authority, the only solution is to let the data speak for itself. That data seems to indicate that if there was a timer, its settings were gradually shifted as the summer drifted into fall, and finally winter arrived.

The size of the errors, at least initially, was also particularly telling. For example, as one flips through Appendices 1 and 2 to Annex D, it is apparent that often in early hours of the sols, rows are shaded in yellow or blue. This means that there was no recorded pressure change for at least four hours, often at times when it was most cold. The blue shading means that the temperature was colder than  $-75^{\circ}\text{C}$  (198.15 K), and often it was colder than  $-85^{\circ}\text{C}$  (188.15 K) then. This would be a time that my formula would predict the highest temperatures, but something was not working right when it came to recording and transmitting the pressures felt at the transducer.

Did the formula work for warm and cold temperatures seen across the 336 sols studied? Yes. To see this it is necessary to look at the temperatures shown in white fonts in the red cells of Appendix 1 to this Annex and in Appendix 2 to this Annex which is a histogram of the temperatures that produced under a 2% difference between measured and predicted pressures.

VL1 SOL	0.02	0.06	0.1	0.14	0.18	0.22	0.26	0.3	0.34	0.38	0.42	0.46	0.5	0.54	0.58	0.62	0.66	0.7	0.74	0.78	0.82	0.86	0.9	0.94	0.98	VL1 SOL
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1									214	220										224							1	
2										217											221	221						2
3										223											221	221						3
4										221											222	221						4
5										218											222	221						5
6									218	216											222	221						6
7										222											221	220						7
8										221											222	221						8
9										222											221	221						9
10																					226							10
11										220																		11
12										219	224								228									12
13										223	227												220					13
14																												14
15									219	225	226												221					15
16									217																			16
17										223	225																	17
18										223	227																	18
19										224													230					19
20												228											227					20
21										223													227					21
22											223												228					22
23												222	229										227					23
24													226										227					24
25													221										227					25
26											223	231											227					26
27																							233					27

VL1 SOL	0.02	0.06	0.1	0.14	0.18	0.22	0.26	0.3	0.34	0.38	0.42	0.46	0.5	0.54	0.58	0.62	0.66	0.7	0.74	0.78	0.82	0.86	0.9	0.94	0.98	VL1 SOL
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VL1 SOL	0.02	0.06	0.1	0.14	0.18	0.22	0.26	0.3	0.34	0.38	0.42	0.46	0.5	0.54	0.58	0.62	0.66	0.7	0.74	0.78	0.82	0.86	0.9	0.94	0.98	VL1 SOL
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28										222	231									228							28
29																					229						29
30											226										228						30
31											230										227						31
32										225	231									237							32
33											228									237							33
34										227	230									238							34
35											232									237	229						35
36											227	234															36
37										227	230	234								238							37
38											231	235															38
39										226	231	235															39
40										228	231	235															40
41										227	232	236								239							41
42										229	231	236								239							42
43										228	229	235								239							43
44										227	230	236								239							44
45											233	237								241							45
46											231	237								239							46
47										228	231	236							241	239							47
48										227	231	237	239						242	238							48
49											231	236	239						242	239							49
50											232	236								238							50
51											229	236	239	241					243	239							51
52										229	233	238	240						242	239							52
53										230	234	238	240						242	240							53
54										230	233	239	239						242	239							54

VL1 SOL	0.02	0.06	0.1	0.14	0.18	0.22	0.26	0.3	0.34	0.38	0.42	0.46	0.5	0.54	0.58	0.62	0.66	0.7	0.74	0.78	0.82	0.86	0.9	0.94	0.98	VL1 SOL
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VL1 SOL	0.02	0.06	0.1	0.14	0.18	0.22	0.26	0.3	0.34	0.38	0.42	0.46	0.5	0.54	0.58	0.62	0.66	0.7	0.74	0.78	0.82	0.86	0.9	0.94	0.98	VL1 SOL
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55										230	233	238	241					240									55
56										229	235	238	240				242	239									56
57											232	238				244	242	239									57
58											237	239					243	239									58
59											232	235	238				243	242	239								59
60											233	237					242	239									60
61											232	238					244	243	239								61
62											232	237	240	244				243	240								62
63											233	239					244	243	239								63
64											234	238	243					243	239								64
65											232	238	243		243			243									65
66												239	242	243				243									66
67											234	239	243				245	243									67
68												237	242					243									68
69												235	242	244	244	246	243										69
70											236	239	242	244			245	243									70
71											234	239	242	244			245	243									71
72												238	241	244	245	245	243										72
73												238	243				244	242									73
74												239	242	244			244	242									74
75											235	239	243	244	244	245	243										75
76										235	237	240	242				245	243									76
77											237	241					246	242									77
78											237	240	244				245	242									78
79											238	240	241				244										79
80											236	240	244	245	244	245	244										80
81											243	246	242	244	247	244											81

VL1 SOL	0.02	0.06	0.1	0.14	0.18	0.22	0.26	0.3	0.34	0.38	0.42	0.46	0.5	0.54	0.58	0.62	0.66	0.7	0.74	0.78	0.82	0.86	0.9	0.94	0.98	VL1 SOL
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VL1 SOL	0.02	0.06	0.1	0.14	0.18	0.22	0.26	0.3	0.34	0.38	0.42	0.46	0.5	0.54	0.58	0.62	0.66	0.7	0.74	0.78	0.82	0.86	0.9	0.94	0.98	VL1 SOL
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82										237	238	241	246	245	245	247	246										82	
83											237	239	243	247	247	244												83
84											236	241	244	247	247	245	243											84
85											236	240	242	245	245	245												85
86											237	240	242	244	245	245												86
87											236	236	240	242	246	249	247											87
88											237	237	241	245	245	248	246											88
89											234	235	240	243	246	246	246											89
90											237	239	243	247	247	247												90
91											237	245		248	247	247	247											91
92											235	240	244	247	248	247	245											92
93											236	241	243	247	248	246	244											93
94											236		242	247	248	246	244											94
95											238	243	245		247	246	245											95
96											236	239	244		247	246	244											96
97											236	240	242	246		246	244											97
98											236	237	240	243	244		246	243										98
99											235	237	240	245	247	247	247	244										99
100											241	240	243			246	243											100
101												238	241	244	247	245	243											101
102											236					248	241											102
103											242	246			249	245												103
104											239	241	246		249	247												104
105													242		250	248	246											105
106											239	243	242	247		248	246											106

VL1 SOL	0.02	0.06	0.1	0.14	0.18	0.22	0.26	0.3	0.34	0.38	0.42	0.46	0.5	0.54	0.58	0.62	0.66	0.7	0.74	0.78	0.82	0.86	0.9	0.94	0.98	VL1 SOL
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VL1 SOL	0.02	0.06	0.1	0.14	0.18	0.22	0.26	0.3	0.34	0.38	0.42	0.46	0.5	0.54	0.58	0.62	0.66	0.7	0.74	0.78	0.82	0.86	0.9	0.94	0.98	VL1 SOL
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107											239						246	246									107
108											239						245	245									108
109												231	239				246										109
110												232	233	238	243	241	248	248									110
111												232	241	244	242	247	247	247									111
112													239	245	245	246	249	246	245								112
113													238	242	245	246		245	245								113
114													242	247	246		245	244								114	
115													238		241	245		245	245								115
116													238	241	242			245								116	

**NO DATA AVAILABLE FROM THE VIKING PROJECT WEB SITE FOR SOLS 117 THROUGH 133**

134											233	239	240				245	245									134
135												239					246	245									135
136													239	242			247	246	245								136
137													239	240	243		247	246	245								137
138													238	243				246	246								138
139													237					246	245								139
140													231	240	242	241		246	245								140
141													239					245	245								141
142													240	242	243			245	245								142
143													239					246	245								143
144													241					245	245								144
145													236	239				246	245								145
146													235	240				246	245								146

VL1 SOL	0.02	0.06	0.1	0.14	0.18	0.22	0.26	0.3	0.34	0.38	0.42	0.46	0.5	0.54	0.58	0.62	0.66	0.7	0.74	0.78	0.82	0.86	0.9	0.94	0.98	VL1 SOL
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VL1 SOL	0.02	0.06	0.1	0.14	0.18	0.22	0.26	0.3	0.34	0.38	0.42	0.46	0.5	0.54	0.58	0.62	0.66	0.7	0.74	0.78	0.82	0.86	0.9	0.94	0.98	VL1 SOL		
147											234	240	241			245	245										147	
148											240					244	244											148
149											236	241	240			245	244											149
150											235					245	244											150
151											234						243											151
152											234						242											152
153											236	241					243											153
154											233	239					242											154
155											233						243											155
156											233						242											156
157											234						241											157
158											234						241											158
159											232					240	241	237										159
160											236					243	242											160
161										227							242											161
162											232						242											162
163											235							LS	180				F	A	L	L		163
164										225							243											164
165											231						242											165
166										224	234							236										166
167										226																		167
168										224	232						241											168
169										223	232						239											169
170										229																		170
171										223	231																	171
172										219	228																	172
173										223																		173

VL1 SOL	0.02	0.06	0.1	0.14	0.18	0.22	0.26	0.3	0.34	0.38	0.42	0.46	0.5	0.54	0.58	0.62	0.66	0.7	0.74	0.78	0.82	0.86	0.9	0.94	0.98	VL1 SOL
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174										224																	174	
175										226																		175
176										221						235												176
177										224																		177
178										221																		178
179									221																			179
180										224																		180
181										220																		181
182										220																		182
183										221																		183
184																												184
185									218												227							185
186										218											225							186
187									212	223																		187
188										222											226							188
189																												189
190										221											227							190
191										218																		191
192									214																			192
193										216											225							193
194									211												226							194
195										216												218	221	217				195
196										219											222							196
197																					224							197
198										216											222							198
199									217												224							199
200										217											224							200

VL1 SOL	0.02	0.06	0.1	0.14	0.18	0.22	0.26	0.3	0.34	0.38	0.42	0.46	0.5	0.54	0.58	0.62	0.66	0.7	0.74	0.78	0.82	0.86	0.9	0.94	0.98	VL1 SOL
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VL1 SOL	0.02	0.06	0.1	0.14	0.18	0.22	0.26	0.3	0.34	0.38	0.42	0.46	0.5	0.54	0.58	0.62	0.66	0.7	0.74	0.78	0.82	0.86	0.9	0.94	0.98	VL1 SOL				
201									217									222								201				
202									211										223								202			
203									207											224							203			
204										213										217							204			
205									206	217										222							205			
206									205											217							206			
207									206											217							207			
208									206											218							208			
209									209												223						209			
210									199									221									210			
211								194										225									211			
212								198													209	206					212			
213								198													209	207					213			
214								199													210	208	204	203	201	199	214			
215								195													211	208			203		215			
216								202													211	208			205	205	216			
217								200											223	217		209	206				217			
218								200													218		208	207			218			
219								199													217	212	207	204		202	203	219		
220								198													222	216		208	206		203	205	220	
221								198														215		206	204		201	221		
222								197														215		206	204			222		
223								196														212		206	203		202	223		
224								196														214		207	204			224		
225								197														219	214		205	203		200	201	225
226								195	200														217	213		204	201		200	226
227	199							196	199														213		205				227	

VL1 SOL	0.02	0.06	0.1	0.14	0.18	0.22	0.26	0.3	0.34	0.38	0.42	0.46	0.5	0.54	0.58	0.62	0.66	0.7	0.74	0.78	0.82	0.86	0.9	0.94	0.98	VL1 SOL
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VL1 SOL	0.02	0.06	0.1	0.14	0.18	0.22	0.26	0.3	0.34	0.38	0.42	0.46	0.5	0.54	0.58	0.62	0.66	0.7	0.74	0.78	0.82	0.86	0.9	0.94	0.98	VL1 SOL		
228	198							194									215			204							228	
229								196	199										215	210	204			200	199	202	229	
230								192	197										209	204	201	198	196	198	199	198	230	
231	196							192	196										210	206	202	200					231	
232								193	199										209		203	200				197	199	232
233								193	199										211		203	200	198	198	200	198	233	
234	197							193	199										211		304	201	200				234	
235								195	201										211	205	203	201	198	196	197	198	235	
236	195							191	197										213	207	203	200	197	197	195	198	236	
237	198	197						192											212	207	204	201	198	198	200		237	
238	195	193					193	192	192											206	203	200	197	197	196	194	238	
239	195	196						192											213	205	203	200	197	195	196	196	239	
240	197	193						190											209	205	202	198	195	194	194	193	240	
241	195	195						189													203	200	197	195	195	197	241	
242	196	194						191												206			197	196			242	
243	194	191						190												206			197	195	197		243	
244	197	197						191												206	203	200	197	197	196	195	244	
245	196	196	195					192														199	197	194	192	191	245	
246	190	189					186	189															195	193			246	
247		193	189					187	189														198	196	194	192	190	247
248	192	194	192					189											208			199	196	195	194	192	248	
249	193	194	191					189																	193	192	191	249
250	190	189	187					185	187														197	194			194	250
251	192	193						188												205			196	194	193	193	251	
252	195	194	193					189																		191		252
253	191	188						185	188																194	193	193	253
254	191	189		192				190															199	196	194	194	193	254

VL1 SOL	0.02	0.06	0.1	0.14	0.18	0.22	0.26	0.3	0.34	0.38	0.42	0.46	0.5	0.54	0.58	0.62	0.66	0.7	0.74	0.78	0.82	0.86	0.9	0.94	0.98	VL1 SOL
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VL1 SOL	0.02	0.06	0.1	0.14	0.18	0.22	0.26	0.3	0.34	0.38	0.42	0.46	0.5	0.54	0.58	0.62	0.66	0.7	0.74	0.78	0.82	0.86	0.9	0.94	0.98	VL1 SOL
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255	193	194	191				186	189																			255
256			190				185	188														195	193				256
257	193	190	188					187																192			257
258		193	189				184	187																192			258
259			188	186			184	186															192				259
260		191	189	188				185															193				260
261	189	189	189	187				184																			261
262	191	191	188	186			184	186																	190	191	262
263	191		188	185			183	185																			263
264			189	185			183	185															193	191	189	191	264
265		186	187	190				186																193			265
266	190	190	187					186																			266
267			189	186				185															194	192	190	189	267
268	190	191	191					185																191	191		268
269			187					184																191	191		269
270			189					184																	189	189	270
271	189		187	184				184																190			271
272			187	186				183															190	188			272
273		185	183	182		181	181	183																	186		273
274	186	184	184	182				181																188	187	188	274
275		183	183					217																224			275
276		187	183	182				182	188																187		276
277			185					188																	187		277
278			186					182																189	187	186	278
279			186	186				183																	188	187	279
280	189	189	187	184				182																189	187		280
281			185					182																189	188	188	281

VL1 SOL	0.02	0.06	0.1	0.14	0.18	0.22	0.26	0.3	0.34	0.38	0.42	0.46	0.5	0.54	0.58	0.62	0.66	0.7	0.74	0.78	0.82	0.86	0.9	0.94	0.98	VL1 SOL
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VL1 SOL	0.02	0.06	0.1	0.14	0.18	0.22	0.26	0.3	0.34	0.38	0.42	0.46	0.5	0.54	0.58	0.62	0.66	0.7	0.74	0.78	0.82	0.86	0.9	0.94	0.98	VL1 SOL
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282	189	187	186	184				181	187															189	188	189	282			
283	188	187	187					180	182															189	186	187	283			
284	188		183					181																	186	185	284			
285		186	187	184				180													194	192	189	188	186	285				
286	184	187	188					182																188	186	185	286			
287	185	183	182	182				180															189	187	185		287			
288			185	185				179													195	193	190	188	186	185	288			
289	186	187	182						187														193	190	188	186	185	289		
290	184	185	186	185	183			181	186															188	186	185	185	290		
291	186	186	185	180				179																188	186	185	184	291		
292	183	185	182						185														192	189	187	187	185	292		
293	185	187	183	184					185															190	187	185	184	293		
294	183	184	181					178																			183	294		
295	183	182	181	181	180	179	178	179														194	191	190	188	186	185	295		
296	188	183							186												198	197	194	190	188	188	188	296		
297	184	186	184	186					185														192	190	187	188	187	297		
298	186	185	182						184															190	188	185	184	298		
299	186	183	184	185					184														197	194	191	189	187	186	299	
300	187	186								186													197	194	192	189	188	189	300	
301	187	184								183														195	194	191	188	186	185	301
302	188	187	185						184													199	196	193	191	188	187	186	302	
303	187	188	187						185														196	192	190	187	186	187	303	
304	186	186	185	184					184														196	193	190	188	186	185	304	
305	185	188	187	185					184														194	192	190	188	186	184	305	
306	186	186	186						184	LS	270		W	I	N	T	E	R				195	193	190	189	187	186	306		
307	185	183																				195		191	189	187	185	307		

VL1 SOL	0.02	0.06	0.1	0.14	0.18	0.22	0.26	0.3	0.34	0.38	0.42	0.46	0.5	0.54	0.58	0.62	0.66	0.7	0.74	0.78	0.82	0.86	0.9	0.94	0.98	VL1 SOL
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VL1 SOL	0.02	0.06	0.1	0.14	0.18	0.22	0.26	0.3	0.34	0.38	0.42	0.46	0.5	0.54	0.58	0.62	0.66	0.7	0.74	0.78	0.82	0.86	0.9	0.94	0.98	VL1 SOL
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308	185	186	186						183															187	185	184	308	
309	185	183	182																	195	192	190	188	187	186	309		
310	185	185	185							193														187	185	310		
311	184	186	187							192															185	311		
312	186									188															188	312		
313	189	185	184							185																313		
314	190	188	192						187	189																314		
315		189	189						186	188									201	197						315		
316	189		190	189				188	188											197	194	193				316		
317				188	187	187	188												198	195	193	193				317		
318				190	189	189	189													199	197	195	194			318		
319				191			191												204	201	199	197				319		
320				192			192													200	198	196				320		
321			191	190																201	199	197	194			321		
322			193	190			190													200	197	195				322		
323			193	191			190													201	199	197	195	194		323		
324			192	191			189													200	198		195	194	192	324		
325			192	190			189													201	199	197	195	194	193	192	191	325
326			193	191			189													201	199	197	195	194	193	192	191	326
327			191				189													199	198	196	194	193	192	191	191	327
328			190				188													200	198		194	193	192	191	190	328
329			189				187													198	197			192	191	190	190	329
330			188				188													198	197			192	191	190	190	330
331			190				188													199	197			193	192	191	190	331
332	189		190				188													198				192	191	190	190	332
333	189	190	189				187													198				191	190	189	189	333
334			188																	197				191	189	188	188	334

VL1 SOL	0.02	0.06	0.1	0.14	0.18	0.22	0.26	0.3	0.34	0.38	0.42	0.46	0.5	0.54	0.58	0.62	0.66	0.7	0.74	0.78	0.82	0.86	0.9	0.94	0.98	VL1 SOL
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VL1 SOL	0.02	0.06	0.1	0.14	0.18	0.22	0.26	0.3	0.34	0.38	0.42	0.46	0.5	0.54	0.58	0.62	0.66	0.7	0.74	0.78	0.82	0.86	0.9	0.94	0.98	VL1 SOL
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335	188	188	187													197	197					190	189	188	188	188	335
336		187	186													197	196					190	188	188	188	188	336
337		188	187				185									199	198					191	190	189	189	189	337
338			189													200	200					192	191	189	189	189	338
339			189														201	197				192	191	189	189	188	339
340			187				186										199	197				191	190	189	188	188	340
341			189														199	198				192	190	189	188	188	341
342	188		189														200	198				191	189	189	188	188	342
343			188					185									201	198				191	190	188	188	188	343
344	188	188	186					184									201	198				191	189	188	187	187	344
345	189	186	185					183	184								201	198				191	189	188	187	187	345
346			187					184									202	199					189	188	187	187	346
347		189	186					183	184								201	198				191	189	188	187	187	347
348	187		188					183	184								202	199				191	189	187	187	186	348
349			188					184	184								204	201					190	188	187	187	349
350	188	190	187					183	184									201					190	188	187	187	350

VL1 SOL	0.02	0.06	0.1	0.14	0.18	0.22	0.26	0.3	0.34	0.38	0.42	0.46	0.5	0.54	0.58	0.62	0.66	0.7	0.74	0.78	0.82	0.86	0.9	0.94	0.98	VL1 SOL
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0.02 time	0.06 time	0.1 time	0.14 time	0.18 time	0.22 time	0.26 time	0.3 time	0.34 time	0.38 time	0.42 time	0.46 time	0.5 time	0.54 time	0.58 time	0.62 time	0.66 time	0.7 time	0.74 time	0.78 time	0.82 time	0.86 time	0.9 time	0.94 time	0.98 time
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**HISTOGRAM FOR TIME-BINS WITH TEMPERATURES SHOWING WHERE THERE WAS <2% DIFFERENCE BETWEEN PRESSURES PREDICTED AND MEASURED**

189	190	191					181		224	237	240					244	245	213		195	191	190	192	186	185
189	188	193					217		220	235	240					245	245	215		195	191	191	191	186	188
189	187	193					182		220	237	240					245	245	209		195	190	191	191	187	188
188	188	192					188		221	237	238					240	244	210		195	190	190	190	187	188
188	188	192					182		218	235	246					243	244	209		194	191	190	190	185	189
188	186	193					183		223	236	241					235	244	211		194	192	189	191	187	189
189	189	191					182		222	236	243					197	243	211			192	190	190	187	188
187	190	190					182		221	238	243					197	242	211			191	189	189	191	188
188		189					181		218	236	244					199	243	213			192	189	188	191	188
		188					180		216	236	245					200	242	212			191	189	188	191	188
		190					181		216	237	242						243	213			191	189	188	190	188
		190					180		219	237	242						242	209			191	189	189	190	187
		189					182		224	241	241						241	208			191	190	189	190	187
		188					180		216	242	240						241	198			191	190	189	190	187
		187					179		217	239	242						241	199			191		189	190	187
		186					181		217	239	240						242	201					189	189	186
		187					179		213	239	243						242	200					189	188	187
		189					178		217	239	242						242	199					188	188	187
		189					179		186	238	242						243	200					188	188	
		187					187		183	241	239						242	199					188	189	
		189					186		193	239	240						241	198					188	189	
		189					188		192	238	240						239	199					188	189	
		188					185			238	241						221	199					187	188	
		186					184			238	241						225	198					188	188	
		185					183			239	239						229	198					188	188	
		187					184			239							227	197						188	
		186					183			239							224	197						187	
		188					183			239							224	197						187	
		188					184			238							225	197						187	
		187					183			237							223	197						187	
										240							222	198						187	
										239							219	198						187	
										240							217	198						187	
										239							215	198							
										241							204	198							
										236							201	199							
										235							201	198							
										234							200	199							
										240							201	201							
										236							201	201							
										235							199								
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										234							199								
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