

**ANNEX CC TO  
MARS CORRECT: CRITIQUE OFF ALL NASA MARS WEATHER DATA  
MSL Year 5 Spring Weather Data (LS 180 to LS 270, Sols 2,729 to 2871)**

This Annex reveals all Mars Science Laboratory (MSL) weather data for MSL's Mars Year 5 spring. It shows what was published by the Rover Environmental Monitoring Station (REMS) Team and JPL. It also reveals what the Roffman Team sees as weather anomalies, and how the REMS Team and JPL altered their data after we color-highlighted what was off the expected temperature and pressure curves. Note: Some sources refer to the first year that MSL was on Mars as Year 0. For those using that system sols 2,729 to 2,871 are Years 4.

**Column A (Sol).** The Martian day is about 39 minutes longer than the terrestrial day.

**Column B is solar longitude (Ls).** MSL is in the Southern Hemisphere on Mars. The landing was at Ls 150 (winter). Ls 180 begins the spring. Ls 270 starts summer, Ls 0 starts the fall. Ls 90 starts the winter.

**Column C shows the pressure reported by the REMS Team.**

**Column D shows the date on Earth.**

**Column E shows the maximum air temperature.** With respect to the freezing point, from 0° C at 1 atm pressure it will increase up to 0.01° C at 0.006 atm (which is about the average pressure on Mars as given by NASA). This is the triple point of water. At pressures below this, water will never be liquid. It will change directly between solid and gas phase (sublimation). The temperature for this phase change, the sublimation point, will decrease as the pressure is further decreased

**Column F shows minimum air temperature.**

**Column G shows the air temperature range for each sol.** On Earth temperatures can vary by 40 °C in deserts. In column G where the range is 59 °C or less yellow background coloring points that out. The National Park Service claims **the world record in a diurnal temperature variation is 102 °F (57 °C)** (from 46 °F (8 °C) to -56 °F (-49 °C)) in [Browning, Montana](#) (elevation 4,377 feet/1,334 meters) on January 23 to 24, 1916. **There were 2 days in Montana where the temperature changed by 57 °C.**

**Column H shows temperature range divided by 40.** This allows us to compare terrestrial deserts with Gale Crater, Mars. How much cooling occurs at night is related to the density of the atmosphere. Here we see the ratio of cooling on a Mars sol to the typical 40 °C cooling figure for Earth's deserts shown with a green background when that ratio is under 1.5. For MSL Year 1 when we altered the divisor from 40 °C to 57 °C then 88 of the ratios were altered to 1 or less than 1, meaning that Martian air pressure is indeed likely much higher than NASA claims.

**Column I shows maximum ground temp.** As with terrestrial deserts, the ground on Mars heats more during the day than the air does, and it cools more at night than the air does. In Column K when the maximum ground temperature is given by REMS is above 0°C it is shown with a red background.

**Column J shows the minimum ground temperature.** When it is -90 °C or colder the background is in purple. **The ground temperatures are not very precise.** The requirement was to measure ground brightness temperature over the range from 150 to 300 K with [a resolution of 2 K and an accuracy of 10 K.](#)

**Column K. Drop in ground temperature from day to night.**

**Column L shows the increase in temperature from the mast 1.5 meters above the ground down to the ground during the daylight hours.** In column N anytime there is an increase in temperature of 11 °C or more this is indicated with a dark blue background.

**Column M shows the decrease in temperature from the ground to the air at nights.** If the data were valid we would expect similar heating or cooling to occur over the set distance from ground to boom. A quick survey of the data immediately shows that this was not found. In column L we see a variation in heating between 0 °C and at least 15 °C with a 54 °C anomaly on Sol 1,070. For nighttime cooling any variation from 11°C to 19°C is shown with a medium blue background. More than that is shown with a dark blue background.

**Column N shows the pressure for the same Ls in MSL Year 1.**

**Column O shows the absolute value of the change in pressure in Pascals from the same Ls in the previous year (Column [M] - [C]).**

**Column P shows the original pressure for the same Ls in MSL Year 1 before JPL revised their data.**

**Column Q shows the Ls during Year 1.**

**Column R shows the UV for the sol in Year 2.**

**Column S shows the UV for the sol in Year 1. All sols in MSL Year 1 and Year 2 have opacity listed as "sunny" which seems dubious.**

**Column T shows comments, if any**

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	
Sol	Ls	PRESSURE Pa	Date	Max Air Temp C	Min Air Temp C	Air Temp Range °C	Air Temp Range °C/40	Max Ground Temp C	Min Ground Temp C	Δ Ground Temp Day To Night	Daytime Change in Temp °C Air To Ground	Night time Change in Temp °C Air To Ground	Pressure at same LS in MSL Year 2	Δ Pressure Year 3 To Year 2 Same LS	Ls in Year 2	Pressure Year 1 Before Revision	UV Year 3	UV Year 2	MSL Previous Year Sol This Ls/ Comments and Altitude In Meters	
						Yellow = <60 °C	Green = <1.5	Red if > 0 °C	Purple = Yellow = -80 to -89 °C, RED background = -90 °C or colder drop		Blue = >10°C	Purple = >10 °C		Yellow = > 7 Pa)						
2729	180	737	4/10/2020	-4	-68	-64	1.6	+3	-75	-78	+7	-7	743	-6	180	N/A	H	H	(2060)  Altitude -4092 m	
2730	181	740	4/11/2020	-11	-68	-57	1.425	+7	-70	-79	+18	-2	745	-5	180	N/A	H	H	(2061)	
2731	181	739	4/12/2020	-4	-68	-59	1.475	+9	-68	-77	+13	0	745	-6	181	N/A	H	VH	(2062)	

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
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2732	182	739	4/13/2020	-8	-69	-61	1.525	+9	-69	-78	+17	0	748	-9	182	N/A	H	VH	(2063)
2733	182	742	4/14/2020	-11	-69	-58	1.45	+10	-70	-80	+21	-1	748	-6	182	N/A	H	VH	(2064) Altitude -4102 m
2734	183	744	4/15/2020	-6	-66	-60	1.5	+16	-77	-93	+22	-11	750	-6	183	N/A	H	VH	(2065) Altitude -4092 m
2735	184	743	4/16/2020	-3	-67	-64	1.6	+19	-81	-100	+22	-14	751	-8	183	N/A	H	VH	(2066)
2736	184	745	4/17/2020	0	-70	-70	1.75	+19	-83	-102	+19	-13	750	-5	184	N/A	H	VH	(2067)
2737	185	745	4/18/2020	0	-67	-67	1.675	+19	-81	-100	+19	-14	752	-7	185	N/A	H	VH	(2068)
2738	185	745	4/19/2020	0	-69	-69	1.725	+19	-84	-103	+19	-15	756	-11	185	N/A	H	VH	(2069)
2739	~186	N/A	4/20/2020	N/A	N/A			N/A	N/A				757		186	N/A		H	(2070)
2740	~186	N/A	4/21/2020	N/A	N/A			N/A	N/A				755		186	N/A		VH	(2071)
2741	187	752	4/22/2020	-1	-69	-68	1.7	+19	-70	-89	+18	-1	758	-6	187	N/A	H	VH	(2072) Altitude -4105 m
2742	188	752	4/23/2020	-3	-68	-65	1.625	+19	-77	-96	+22	-9	756	-4	187	N/A	H	VH	(2073) Altitude -4105 m
2743	188	753	4/24/2020	-3	-68	-65	1.625	+15	-80	-93	+18	-12	758	-5	188	N/A	H	VH	(2074)
2744	189	755	4/25/2020	+8	-68	-76	1.9	+17	-74	-91	+9	-6	762	-7	189	N/A	H	H	(2075)

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Sol	Ls	PRESSURE Pa	Date	Max Air Temp C	Min Air Temp C	Air Temp Range °C	Air Temp Range °C/40	Max Ground Temp C	Min Ground Temp C	Δ Ground Temp Day To Night	Daytime Change in Temp °C Air To Ground	Night time Change in Temp °C Air To Ground	Pressure at same LS in MSL Year 2	Δ Pressure Year 3 To Year 2 Same LS	Ls in Year 2	Pressure Year 1 Before Revision	UV Year 3	UV Year 2	MSL Previous Year Sol This Ls/ Comments and Altitude In Meters
2745	189	757	4/26/2020	-4	-70	-66	1.65	+16	-78	-94	+20	-8	764	-7	189	N/A	H	H	(2076) Altitude -4108 m
2746	190	759	4/27/2020	-9	-70	-61	1.525	+15	-73	-89	+24	-3	765	-6	190	N/A	H	H	(2077)
2747	191	754	4/28/2020	-9	-62	-53	1.325	+2	-74	-76	+11	-12	766	-5	190	N/A	L	H	(2078) See Figure 1
2747 revised	191	761	4/28/2020	-9	-69	-60	1.5	+15	-75	-90	+24	-6	766	-5	190	N/A	H	H	(2078) Altitude -4108 m
2748	191	761	4/29/2020	-9	-68	-59	1.475	+14	-76	-90	+23	-8	767	-6	191	N/A	H	H	(2079) -4108 m
2749	192	771	4/30/2020	-12	-67	-55	1.375	+15	-81	-96	+27	-14	768	+3	192	N/A	H	H	(2080)
2750	192	763	5/1/2020	-7	-69	-62	1.55	+15	-74	-89	+22	-5	770	-7	192	N/A	H	M	(2081) -4108 m
2751	193	765	5/2/2020	-7	-68	-61	1.525	+15	-78	-93	+22	-10	768	-3	193	N/A	H	L	(2082)
2752	194	766	5/3/2020	-6	-69	-63	1.575	+15	-73	-88	+21	-4	769	-3	194	N/A	H	L	(2083)
2753	194	767	5/4/2020	-7	-69	-62	1.55	+15	-77	-92	+22	-8	771	-4	194	N/A	H	L	(2084)

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2754	195	769	5/5/2020	-8	-69	-61	1.525	+14	-73	-87	+22	-4	772	-3	195	N/A	H	L	(2085)
2755	195	769	5/6/2020	-7	-70	-63	1.575	+15	-76	-93	+22	-6	776	-7	195	N/A	H	L	(2086)
2756	196	771	5/7/2020	-7	-69	-62	1.55	+16	-72	-88	+23	-3	780	-9	196	N/A	H	L	(2087)
2757	197	773	5/8/2020	-6	-71	-65	1.625	+16	-72	-88	+22	-1	778	-5	198	N/A	H	L	(2088)
2758	197	775	5/9/2020	-6	-68	-62	1.55	+16	-71	-87	+22	-3	779	-4	197	N/A	H	L	(2089)
2759	198	777	5/10/2020	-5	-69	-64	1.6	+15	-80	-95	+20	-11	778	-1	198	N/A	H	L	(2090)
2760	199	778	5/11/2020	-7	-70	-63	1.575	+16	-74	-90	+23	-4	779	-1	198	N/A	H	L	(2091)
2761	199	779	5/12/2020	-7	-67	-60	1.5	+16	-77	-93	+23	-10	781	-2	199	N/A	H	L	(2092)
2762	200	781	5/14/2020	-6	-68	-62	1.55	+17	-74	-91	+23	-6	780	+1	199	N/A	H	L	(2093)
2763	200	782	5/15/2020	-6	-67	-61	1.525	+17	-75	-92	+23	-8	783	-1	200	N/A	H	L	(2094)
2764	201	786	5/16/2020	-6	-68	-62	1.55	+17	-73	-90	+23	-5	784	+2	201	N/A	H	L	(2095)
2765	202	787	5/17/2020	-6	-69	-63	1.575	+17	-82	-99	+23	-13	788	-1	201	N/A	H	L	(2096)
2766	202	788	5/18/2020	-7	-69	-62	1.55	+17	-76	-93	+24	-7	789	-1	202	N/A	H	L	(2097)
2767	203	791	5/19/2020	-6	-69	-63	1.575	+17	-73	-90	+23	-4	791	0	203	N/A	H	L	(2098)
																			-4108 m

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		exact tie with last year																	
2768	203	791	5/20/2020	-5	-69	64	1.6	+17	-79	-96	+22	-10	791	0	203	N/A	H	L	(2099) -4108 m
2769	204	793	5/21/2020	-4	-69	65	1.625	+17	-74	-91	+21	-5	797	-4	204	N/A	H	L	(2100)
2770	205	797	5/22/2020	-6	-69	-63	1.575	+17	-76	-93	+23	-7	796	+1	204	N/A	H	L	(2101)
2771	205	796	5/23/2020	-7	-70	-63	1.575	+17	-76	-93	+24=4	-6	797	-1	205	N/A	H	L	(2102)
2772	206	799	5/24/2020	-5	-68	-63	1.575	+18	-79	-97	+23	-11	797	+2	205	N/A	H	L	(2103)
2773	207	801	5/25/2020	-6	-69	-63	1.575	+16	-75	-91	+22	-6	797	+4	206	N/A	H	L	(2104)
2774	207	802	5/26/2020	-5	-67	-62	1.55	+17	-74	-91	+22	-7	802	0	207	N/A	H	L	(2105) -4108 m
2775	208	805	5/27/2020	-7	-69	-62	1.55	+17	-71	-88	+24	-2	803	+2	208	N/A	H	L	(2106)
2776	208	804	5/28/2020	-6	-69	-63	1.575	+16	-69	-85	+22	0	807	-3	208	N/A	H	L	(2107)
2777	209	808	5/29/2020	-7	-69	-62	1.55	+16	-71	-87	+23	-2	806	+2	209	N/A	H	L	(2108)
2778	210	811	5/30/2020	-7	-67	-60	1.5	+16	-72	-88	+23	-5	809	+2	209	N/A	H	L	(2109)
2779	210	810	5/31/2020	-5	-67	-62	1.55	+16	-73	-89	+21	-6	810	0	210	N/A	H	L	(2110)

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2780	211	813	6/1/2020	0	-70	-70	1.75	+16	-71	-87	+16	-1	813	0	211	N/A	H	L	-4108 m (2111)  Altitude -4108 m
2781	212	814	6/2/2020	0	-67	-67	1.675	+16	-71	-87	+16	-4	813	+1	211	N/A	H	L	(2112)
2782	212	815	6/3/2020	-4	-66	-62	1.5	+17	-78	-95	+21	-11	815	0	212	N/A	H	L	(2113)
2783	213	817	6/4/2020	-5	-69	-64	1.6	+21	-83	-104	+26	-14	816	+1	213	N/A	H	L	(2114)
2784	213	817	6/5/2020	-5	-68	-63	1.575	+18	-71	-89	+23	-3	818	-1	213	N/A	H	L	(2115)
2785	214	824	6/6/2020	-3	-69	-66	1.65	+18	-84	-102	+21	-15	820	+4	214	N/A	H	L	(2116)
2786	215	825	6/7/2020	-3	-68	-65	1.625	+18	-81	-99	+21	-13	822	+3	214	N/A	H	L	(2117)
2787	215	828	6/8/2020	-4	-69	-65	1.625	+15	-75	-90	+19	-6	822	+6	215	N/A	H	L	(2118)
2788	216	830	6/9/2020	-4	-68	-64	1.6	+13	-73	-86	+17	-5	824	+6	216	N/A	H	L	(2119)  Altitude -4102 m
2789	217	829	6/10/2020	-4	-67	-63	1.575	+12	-73	-85	+16	-6	828	+1	216	N/A	H	L	(2120)



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2790	217	831	6/11/2020	+3	-66	-69	1.725	+13	-76	-89	-10	-10	829	+2	217	N/A	H	L	(2121) Altitude -4110 m
2791	218	830	6/12/2020	+3	-67	-70	1.75	+16	-71	-87	+13	-4	830	0	218	N/A	H	L	(2122) Altitude -4118 m
2792	218	833	6/13/2020	+5	-68	-73	1.825	+16	-75	-91	+11	-7	831	+2	218	N/A	H	L	(2123)
2793	219	836	6/14/2020	-4	-68	-64	1.6	+22	-85	-107	+26	-17	832	+4	219	N/A	H	L	(2124) Altitude -4106 m
2794	220	834	6/15/2020	+3	-68	-71	1.775	+17	-80	-97	+14	-12	834	0	219	N/A	H	L	(2125)
2795	220	840	6/16/2020	+6	-70	-64	1.6	+16	-73	-89	+10	-3	837	+3	220	N/A	H	L	(2126)
2796	221	839	6/17/2020	+3	-68	-71	1.775	+11	-76	-87	+8	-8	838	+1	221	N/A	H	L	(2127)
2797	222	842	6/18/2020	+1	-71	-72	1.8	+12	-86	-98	+11	-15	841	+1	221	N/A	H	L	(2128) Altitude -4093 m
2798	222	844	6/20/2020	+4	-67	-71	1.775	+9	-74	-83	+5	-7	843	+1	222	N/A	M	L	(2129)
2799	223	843	6/21/2020	+5	-66	-71	1.775	+9	-72	-81	+4	-6	844	-1	223	N/A	M	L	(2130)
2800	224	847	6/22/2020	+3	-67	-70	1.75	+15	-69	-84	+18	-2	846	+1	223	N/A	M	L	(2131) Altitude -4093 m

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2801	224	850	6/23/2020	0	-67	-67	1.675	+14	-74	-88	+14	-7	847	+3	224	N/A	M	L	(2132)
2802	225	855	6/24/2020	-3	-69	-66	1.65	+14	-82	-96	+17	-13	849	+6	225	N/A	M	L	(2133) Altitude -4099 m
2803	225	854	6/25/2020	+1	-107	-108	2.7	+13	-78	-91	+12	+29	851	+3	225	N/A	H	L	(2134)
2804	226	860	6/26/2020	-1	-66	-67	1.675	+14	-75	-89	+15	-9	854	+6	226	N/A	H	L	(2135) Altitude -4099 m
2805	227	859	6/27/2020	+1	-99	-100	2.5	+9	-74	-83	+8	+25	856	+3	227	N/A	H	L	(2136)
2806	227	858	6/28/2020	-1	-65	-64	1.6	+10	-70	-80	+11	-5	867	-9	227	N/A	H	L	(2137)
2807	228	869	6/29/2020	-1	-66	-65	1.625	+12	-70	-82	+11	-4	858	+12	228	N/A	H	L	(2138)
2808	N/A	N/A	6/30/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	857	N/A	228	N/A	N/A	L	(2139)
2809	N/A	N/A	7/1/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	858	N/A	229	N/A	N/A	M	(2140)
2810	230	832	7/2/2020	-1	-52	-51	1.275	+9	-53	-62	+10	-1	863	-31	230	N/A	M	M	(2141)
2811	231	863	7/3/2020	-1	-64	-63	1.575	+9	-70	-79	+10	-6	865	-2	230	N/A	M	L	(2142)
2812	231	869	7/4/2020	0	-67	-67	1.675	+9	-70	-79	+9	-3	865	+4	231	N/A	M	M	(2143)

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Sol	Ls	PRESSURE Pa	Date	Max Air Temp C	Min Air Temp C	Air Temp Range °C	Air Temp Range °C/40	Max Ground Temp C	Min Ground Temp C	Δ Ground Temp Day To Night	Daytime Change in Temp °C Air To Ground	Night time Change in Temp °C Air To Ground	Pressure at same LS in MSL Year 2	Δ Pressure Year 3 To Year 2 Same LS	Ls in Year 2	Pressure Year 1 Before Revision	UV Year 3	UV Year 2	MSL Previous Year Sol This Ls/ Comments and Altitude In Meters
2813	232	864	7/5/2020	-2	-65	-63	1.575	+12	-70	-82	+14	-5	867	-3	232	N/A	M	L	(2144) Altitude -4102 m
2814	233	895	7/6/2020	-53	-63	-10	0.250	-45	-72	-27	-8	-9	868	+27	232	N/A	L	L	(2145)
2815	N/A	N/A	7/7/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	870	N/A	233	N/A	N/A	M	(2146) Altitude -4108 m
2816	234	843	7/8/2020	-1	-52	-51	1.275	+11	-62	-73	+12	-10	870	-27	233	N/A	L	L	(2147)
2817	235	873	7/9/2020	-4	-65	-61	1.525	+13	-74	-87	+17	-9	872	+1	234	N/A	M	M	(2148) Altitude -4115 m
2818	235	873	7/10/2020	-6	-67	-61	1.525	+9	-67	-76	+15	0	874	-1	235	N/A	M	M	(2149)
2819	236	874	7/11/2020	-4	-67	-63	1.575	+10	-67	-77	+14	0	874	0	236	N/A	M	M	(2150)
2820	236	876	7/12/2020	0	-67	-67	1.675	+9	-71	-80	+9	-4	876	0	236	N/A	M	M	(2151) Altitude -4118 m
2821	237	875	7/13/2020	-7	-66	-59	1.475	+8	-74	-82	+15	-8	878	-3	237	N/A	M	M	(2152)
2822	238	879	7/14/2020	-5	-70	-65	1.625	+8	-70	-78	+13	0	880	-1	237	N/A	M	M	(2153) Altitude -4118 m

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
Sol	Ls	PRESSURE Pa	Date	Max Air Temp C	Min Air Temp C	Air Temp Range °C	Air Temp Range °C/40	Max Ground Temp C	Min Ground Temp C	Δ Ground Temp Day To Night	Daytime Change in Temp °C Air To Ground	Night time Change in Temp °C Air To Ground	Pressure at same LS in MSL Year 2	Δ Pressure Year 3 To Year 2 Same LS	Ls in Year 2	Pressure Year 1 Before Revision	UV Year 3	UV Year 2	MSL Previous Year Sol This Ls/ Comments and Altitude In Meters
2823	238	880	7/15/2020	-5	-70	-65	1.625	+9	-71	-80	+14	-1	878	+2	238	N/A	M	M	(2154)
2824	239	879	7/16/2020	-4	-86	-82	2.05	+10	-83	-93	+14	+3	878	+1	239	N/A	M	M	(2155) Altitude -4126 m
2825	240	881	7/17/2020	-9	-67	-58	1.45	+11	-72	-83	+20	-5	879	+2	239	N/A	M	M	(2156)
2826	240	882	7/18/2020	-7	-66	-59	1.475	+12	-77	-89	+19	-11	877	-5	240	N/A	M	M	(2157)
2827	241	881	7/19/2020	-6	-64	-58	1.45	+14	-74	-88	+20	-10	880	+1	241	N/A	M	M	(2158)
2828	242	882	7/20/2020	-6	-67	-61	1.525	+15	-73	-88	+21	-6	883	-1	241	N/A	M	M	(2159)
2829	243	882	7/21/2020	+1	-66	-67	1.675	+14	-75	-89	+13	-9	885	-3	242	N/A	M	M	(2160) Altitude -4128 m
2830	244	884	7/22/2020	-1	-66	-65	1.625	+12	-78	-90	+13	-12	884	0	243	N/A	M	M	(2161)
2831	244	885	7/23/2020	+1	-68	-69	1.725	+13	-71	-84	+12	-3	885	0	243	N/A	M	M	(2162)
2832	245	887	7/24/2020	0	-70	-70	1.75	+13	-73	-86	+13	-3	886	+1	244	N/A	M	M	(2163)
2833	245	888	7/25/2020	0	-66	-66	1.65	+13	-74	-87	+13	-8	886	+2	245	N/A	M	M	(2164)
2834	246	888	7/27/2020	0	-68	-68	1.7	+12	-85	-97	+12	-17	887	+1	245	N/A	M	M	(2165)
2835	246	890	7/28/2020	-7	-68	-61	1.525	+12	-83	-95	+19	-15	887	+3	246	N/A	M	M	(2166)

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2836	247	890	7/29/2020	+1	-71	-72	1.8	+13	-72	-85	+12	-1	885	+5	247	N/A	M	M	(2167)
2837	248	892	7/30/2020	-5	-67	-62	1.55	+14	-74	-87	+19	-7	889	+3	247	N/A	M	M	(2168)
2838	248	892	7/31/2020	-3	-68	-65	1.625	+12	-74	-86	+15	-6	882	+10	248	N/A	M	M	(2169)
2839	249	893	8/1/2020	-1	-68	-67	1.675	+12	-78	-90	+13	-10	886	+7	249	N/A	M	M	(2170)
2840	249	889	8/2/2020	0	-72	-72	1.8	+13	-82	-95	+13	-10	870	+19	249	N/A	M	M	(2171)
2841	250	889	8/3/2020	+3	-68	-71	1.775	+14	-75	-89	+11	-7	N/A	N/A	N/A	N/A - ISSUE	M	M	(2172) Engineers at JPL are working to address an issue on Curiosity that is preventing it from sending science and engineering data stored in its memory.
2842	251	890	8/4/2020	-1	-68	-67	1.675	+12	-74	-86	+13	-6	N/A	N/A	N/A	N/A	M	N/A	(2173)
2843	251	889	8/5/2020	-8	-69	-61	1.525	+12	-72	-84	+20	-3	N/A	N/A	N/A	N/A	M	N/A	(2174)
2844	252	889	8/6/2020	-1	-99	-98	2.45	+12	-84	-95	+13	+15	N/A	N/A	N/A	N/A	M	N/A	(2175)
2845	253	892	8/7/2020	-1	-68	-67	1.675	+13	-81	-94	+14	-13	N/A	N/A	N/A	N/A	M	N/A	(2176)
2846	253	894	8/8/2020	0	-63	-63	1.575	+13	-74	-87	+13	-11	N/A	N/A	N/A	N/A	M	N/A	(2177)

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2847	254	895	8/9/2020	+3	-68	-71	1.775	+14	-82	-96	+11	-14	N/A	N/A	N/A	N/A	M	N/A	(2178)
2848	255	893	8/10/2020	-2	-69	-67	1.675	+12	-72	-84	+14	-3	N/A	N/A	N/A	N/A	M	N/A	(2179)
2849	255	894	8/11/2020	+4	-74	-68	1.7	+13	-71	-84	+9	+3	N/A	N/A	N/A	N/A	M	N/A	(2180)
2850	256	896	8/12/2020	-4	-68	-64	1.6	+13	-73	-86	+17	-5	N/A	N/A	N/A	N/A	M	N/A	(2181)
2851	257	894	8/13/2020	-1	-68	-67	1.675	+14	-78	-92	+15	10	N/A	N/A	N/A	N/A	M	N/A	(2182)
2852	257	894	8/14/2020	0	-69	-69	1.725	+13	-73	-86	+13	-4	N/A	N/A	N/A	N/A	M	N/A	(2183)
2853	258	894	8/15/2020	0	-68	-68	1.7	+13	-73	-86	+13	-5	N/A	N/A	N/A	N/A	M	N/A	(2184)
2854	259	894	8/16/2020	-1	-69	-68	1.7	+13	-77	-90	+14	-8	N/A	N/A	N/A	N/A	H	N/A	(2185)
2855	259	890	8/17/2020	-3	-69	-66	1.65	+14	-75	-89	+17	-6	N/A	N/A	N/A	N/A	M	N/A	(2186)
2856	260	889	8/18/2020	-2	-67	-65	1.625	+13	-73	-86	+15	-6	N/A	N/A	N/A	M	M	N/A	(2187)
2857	261	888	8/19/2020	+1	-67	-68	1.7	+13	-71	-84	+12	-4	N/A	N/A	N/A	N/A	M	N/A	(2188)
2858	261	886	8/20/2020	-1	-68	-67	1.675	+13	-74	-87	+14	-6	N/A	N/A	N/A	N/A	M	N/A	(2189)
2859	262	886	8/21/2020	0	-67	-67	1.675	+13	-72	-85	+13	-5	N/A	N/A	N/A	N/A	M	N/A	(2190)

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2860	263	884	8/22/2020	-1	-68	-67	1.675	+12	-75	-87	+13	-7	N/A	N/A	N/A	N/A	M	N/A	(2191)
2861	263	885	8/23/2020	+2	-67	-69	1.725	+13	-77	-90	+11	-10	N/A	N/A	N/A	N/A	M	N/A	(2192)
2862	264	885	8/24/2020	-3	-67	-64	1.6	+12	-73	-85	+15	-6	N/A	N/A	N/A	N/A	M	N/A	(2193)
2863	264	883	8/25/2020	0	-68	-68	1.7	+13	-77	-90	+13	-9	N/A	N/A	N/A	N/A	M	N/A	(2194)
2864	265	885	8/26/2020	-3	-68	-65	1.625	+13	-74	-87	+16	-6	N/A	N/A	N/A	N/A	H	N/A	(2195)
2865	266	887	8/27/2020	+1	-68	-69	1.725	+14	-74	-88	+13	-6	N/A	N/A	N/A	N/A	H	N/A	(2196)
2866	266	888	8/28/2020	-1	-69	-68	1.7	+13	-75	-88	+14	-6	N/A	N/A	N/A	N/A	H	N/A	(2197)
2867	267	889	8/29/2020	-3	-69	-66	1.65	+13	-74	-87	+11	-5	N/A	N/A	N/A	N/A	M	N/A	(2198)
2868	268	887	8/30/2020	0	-69	-69	1.725	+13	-74	-87	+13	-5	N/A	N/A	N/A	N/A	M	N/A	(2199)
2869	268	887	8/31/2020	-2	-70	-68	1.7	+12	-77	-89	+14	-7	N/A	N/A	N/A	N/A	H	N/A	(2200)
2870	269	888	9/1/2020	+1	-69	-70	1.75	+13	-80	-93	+12	-11	N/A	N/A	N/A	N/A	H	N/A	(2201)
2871	270	885	9/3/2020	0	-69	-69	1.75	+13	-74	-87	+13	-5	N/A	N/A	N/A	N/A	H	N/A	(2202)
1st day of summer																			

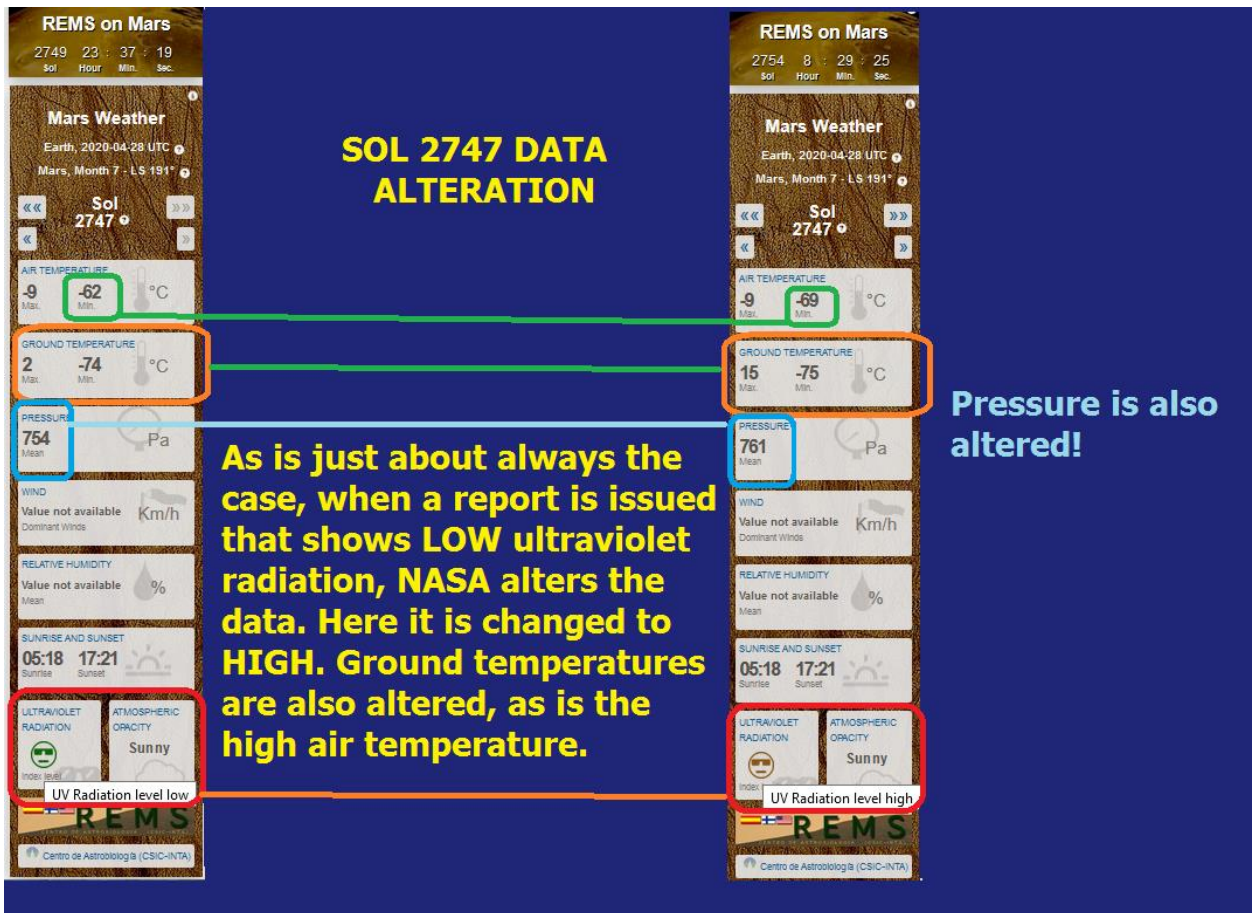


Figure 1 above, as expected NASA altered all data for Sol 2747. NASA hates low UV readings because they are not compatible with a near-vacuum pressure.