

**ANNEX P TO
MARS CORRECT: CRITIQUE OFF ALL NASA MARS WEATHER DATA
MSL Year 2 Autumn (LS 0 to 90, Sols 1,019 to 1,213)**

This Annex reveals all Mars Science Laboratory (MSL) weather data for MSL's Mars Year 2 autumn. 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.

EXPLANATION OF COLUMN DATA FOR ANNEX P

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 in winter. Ls 180 begins the spring there. 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 MSY 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 temperature. 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 Ls during Year 1.

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

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	EARTHDATE	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 TONIGHT	DAYTIME CHANGE IN TEMP °C AIR TO GROUND	NIGHTTIME CHANGE IN TEMP °C AIR TO GROUND	PRESSURE AT SAME LS IN MSL YEAR 1	Δ PRESSURE YEAR 1 TO YEAR 2 SAME LS (yellow = > 7 Pa)	~LS year 1	PRESSURE YEAR 1 BEFORE REVISION	UV YR 2	UV YR 1	COMMENTS
						Yellow = -59°C or warmer	Green = <1.5	Red = > 0°C	PURPLE = >=90°C or colder	Yellow numbers = - 80 to -89 °C, red background = -90°C or colder drop	Blue = >10°C	PURPLE = >10°C							

1019	0	819	6/19/2015	-14	-36	-22	0.55	-2	-24	-22	12	+12	853	34	0	N/A	M	H	BEGIN AUTUMN
1020	0	832	6/20/2015	-12	-63	-51	1.275	1	-65	-66	13	-2	854	22	0	N/A	H	H	
1021	1	850	6/21/2015	-14	-76	-62	1.55	-1	-77	-76	13	-1	855	5	1	N/A	H	H	UV altered from Low
1022	1	852	6/22/2015	-12	-75	-62	1.55	-12	-77	-65	0	-2	857	5	1	N/A	H	H	
1023	2	851	6/23/2015	-15	-77	-62	1.55	-1	-77	-76	14	0	857	6	2	N/A	M	H	
1024	2	851	6/24/2015	-15	-76	-61	1.525	-1	-78	-77	14	-2	856	5	2	N/A	H	H	
1025	3	851	6/25/2015	-14	-74	-60	1.5	-1	-78	-77	13	-4	857	6	3	N/A	H	H	
1026	3	868 revised to 851	6/26/2015	-62 revised to -16	-69 revised to -78	-7 revised to -62	0.175 revised to 1.55	-54 revised to -1	-67 revised to -78	-77 after revision	8 revised to 15	+2 revised to 0	N/A	N/A	3	N/A	L	N/A	Maximum air and ground temps were impossibly low.
1027		N/A	6/27/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4	N/A	N/A	N/A	
1028	4	853	6/28/2015	-15	-75	-60	1.5	-2	-77	-75	13	-2	N/A	N/A	4	N/A	H	N/A	
1029	5	856	6/29/2015	-14	-75	-61	1.525	-2	-77	-75	12	-2	N/A	N/A	5	N/A	H	N/A	
1030	5	855	6/30/2015	-15	-77	-62	1.55	-1	-78	-77	14	-1	N/A	N/A	5	N/A	H	N/A	
1031	6	858	7/1/2015	-15	-76	-61	1.525	-12	-78	-66	3	-2	N/A	N/A	6	N/A	H	N/A	
1032	6	854	7/2/2015	-16	-74	-58	1.45	0	-79	-79	16	-5	N/A	N/A	6	N/A	H	N/A	
1033	7	856	7/3/2015	-14	-77	-63	1.575	-2	-79	-77	12	-2	N/A	N/A	7	839	H	N/A	

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
SOL	~LS	PRESSURE Pa	EARTHDATE	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 TONIGHT	DAYTIME CHANGE IN TEMP °C AIR TO GROUND	NIGHTTIME CHANGE IN TEMP °C AIR TO GROUND	PRESSURE AT SAME LS IN MSL YEAR 1	Δ PRESSURE YEAR 1 TO YEAR 2 SAME LS (yellow = > 7 Pa)	~LS year 1	PRESSURE YEAR 1 BEFORE REVISION	UV YR 2	UV YR 1	COMMENTS
						Yellow = -59°C or warmer	Green = <1.5	Red = > 0°C	PURPLE = >=90°C or colder	Yellow numbers = - 80 to -89 °C, red background = -90°C or colder drop	Blue = >10°C	PURPLE = >10°C							

1034	7	859	7/4/2015	-14	-76	-62	1.55	-1	-77	-76	13	-1	861	2	7	N/A	H	H	
1035	8	857	7/5/2015	-12	-77	-65	1.625	6	-77	-83	18	0	862	5	8	N/A	H	H	
1036	8	860	7/6/2015	-17	-76	-59	1.475	4	-82	-86	13	-6	863	3	8	N/A	H	H	
1037	9	856	7/7/2015	-21	-80	-59	1.475	-1	-80	-79	20	0	865	9	9	N/A	H	H	
1038	9	858	7/8/2015	-21	-76	-55	1.375	-1	-84	-83	20	-8	865	7	9	1149 on Sol 370 (August 21, 2013)	H	H	ORIGINAL YR 1 MAX PRESSURE SHOWED PRESSURE SENSOR PEGGED OUT AT MAX. JPL DATA MANIPULATION IS SUSPECTED.
1039	10	857	7/9/2015	-21	-77	-56	1.4	-1	-84	-83	20	-7	865	8	10	N/A	H	H	
1040	10	858	7/10/2015	-21	-77	-56	1.4	0	-82	-82	21	-5	866	8	10	N/A	H	H	
1041	11	859	7/11/2015	-22	-77	-55	1.375	0	-83	-83	22	-6	866	7	11	N/A	H	H	
1042	11	859	7/12/2015	-20	-76	-56	1.4	-4	-83	-79	16	-7	866	7	11	N/A	M	H	
1043	12	860	7/13/2015	-20	-77	-57	1.425	-3	-76	-73	17	+1	867	7	12	N/A	M	H	
1044	12	860	7/14/2015	-20	-79	-59	1.475	-3	-76	-73	17	+3	870	10	12	N/A	M	H	
1045	13	861	7/15/2015	-13	-80	-67	1.675	1	-82	-83	14	-2	870	9	13	N/A	H	H	
1046	13	862	7/16/2015	-12	-77	-65	1.625	2	-81	-83	14	-4	869	7	13	N/A	H	H	
1047	14	863	7/17/2015	-14	-77	-63	1.575	2	-81	-83	16	-4	870	7	14	N/A	H	H	
1048	14	864	7/18/2015	-15	-78	-63	1.575	-2	-80	-78	17	-2	870	6	14	N/A	H	H	

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1049	15	864	7/19/2015	-21	-75	-54	1.35	5	-83	-88	26	-8	871	7	15	N/A	H	H	
1050	15	863	7/20/2015	-22	-76	-54	1.35	6	-92	-98	28	-16	872	9	15	N/A	H	H	
1051	16	864	7/21/2015	-20	-76	-56	1.4	4	-91	-95	24	-15	874	10	16	N/A	H	H	
1052	16	865	7/23/2015	-12	-78	-66	1.65	1	-84	-85	13	-6	875	10	16	N/A	H	H	
1053	17	865	7/24/2015	-11	-79	-68	1.7	8	-84	-92	19	-5	874	9	17	N/A	H	H	
1054	17	867	7/25/2015	-11	-77	-66	1.65	6	-89	-95	17	-12	873	6	17	N/A	H	H	
1055	17	868	7/26/2015	-20	-77	-57	1.425	6	-90	-96	26	-13	874	6	18	N/A	H	H	
1056	18	868	7/27/2015	-21	-76	-55	1.375	4	-91	-95	25	-15	875	7	18	N/A	H	H	
1057	18	867	7/28/2015	-22	-78	-56	1.4	6	-80	-86	28	-2	875	8	19	N/A	H	H	
1058	19	868	7/29/2015	-22	-78	-56	1.4	1	-78	-79	23	0	875	8	19	N/A	H	H	
1059	19	870	7/30/2015	-20	-78	-58	1.45	2	-77	-79	22	1	875	5	20	N/A	H	H	
1060	20	870	7/31/2015	-16	-78	-62	1.55	2	-78	-80	18	0	876	6	20	N/A	H	H	
1061	20	871	8/1/2015	-23	-77	-54	1.35	3	-78	-81	26	-1	877	6	21	N/A	H	H	
1062	21	872	8/2/2015	-24	-77	-53	1.325	2	-80	-82	26	-3	878	6	21	N/A	H	H	
1063	21	873	8/32015	-19	-79	-60	1.5	1	-77	-78	20	2	878	5	22	N/A	H	H	
1064	22	871	8/4/2015	-22	-77	-55	1.375	2	-77	-79	24	0	879	8	22	N/A	H	H	
1065	22	873	8/5/2015	-19	-78	-59	1.475	2	-78	-80	21	0	880	7	23	N/A	H	H	

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1066	23	875	8/6/2015	-14	-78	-64	1.6	0	-79	-79	14	-1	880	5	23	N/A	H	H	
1067	23	875	8/7/2015	-24	-79	-55	1.375	1	-87	-88	25	-8	880	5	24	N/A	M	H	
1068	24	874	8/8/2015	-23	-76	-53	1.325	-3	-82	-79	20	-6	881	3	24	N/A	H	H	
1069	24	876	8/9/2015	-22	-77	-55	1.375	-4	-79	-75	18	-2	881	5	24	N/A	H	H	
1070	25	877	8/10/2015	-14	-80	-66	1.65	-5	-26	-21	9	54	882	5	25	N/A	H	H	
1071	25	878	8/11/2015	-16	-78	-62	1.55	-4	-68	-64	12	10	883	5	25	N/A	H	H	
1072	26	879	8/12/2015	-15	-78	-63	1.575	2	-79	-81	17	-2	883	4	25	N/A	H	H	
1073	26	879	8/13/2015	-15	-82	-67	1.675	1	-77	-78	16	5	883	6	26	N/A	M	H	
1074	27	878	8/14/2015	-14	-77	-63	1.575	-2	-87	-85	12	-10	884	6	26	N/A	H	H	
1075	27	879	8/15/2015	-13	-77	-64	1.6	-3	-82	-79	10	-5	886	7	27	N/A	M	H	
1076	28	880	8/16/2015	-14	-81	-67	1.675	-1	-81	-80	13	0	887	7	27	N/A	M	H	
1077	28	880	8/17/2015	-16	-79	-63	1.575	-2	-81	-79	14	-2	887	7	28	N/A	M	H	
1078	29	881	8/18/2015	-18	-80	-62	1.55	1	-82	-83	19	-2	887	6	28	N/A	M	H	

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SOL	~LS	PRESSURE Pa	EARTHDATE	MAX AIR TEMP °C	MIN AIR TEMP °C	AIR TEMP RANGE °C Yellow = -59°C or warmer	AIR TEMP RANGE °C/40 Green = <1.5	MAX GROUND TEMP °C Red = > 0°C	MIN GROUND TEMP °C PURPLE = >=90°C or colder	Δ GROUND TEMP DAY TONIGHT Yellow numbers = - 80 to -89 °C, red background = -90°C or colder drop	DAYTIME CHANGE IN TEMP °C AIR TO GROUND Blue = >10°C	NIGHTTIME CHANGE IN TEMP °C AIR TO GROUND PURPLE = >10°C	PRESSURE AT SAME LS IN MSL YEAR 1	Δ PRESSURE YEAR 1 TO YEAR 2 SAME LS (yellow = > 7 Pa)	~LS year 1	PRESSURE YEAR 1 BEFORE REVISION	UV YR 2	UV YR 1	COMMENTS

1079	29	882	8/19/2015	-21	-80	-59	1.475	-3	- 83	-80	18	-3	888	6	29	N/A	M	H	
1080	29	882	8/20/2015	-17	-77	-60	1.5	-3	-84	-81	14	-7	887	5	29	N/A	M	H	
1081	30	882	8/21/2015	-18	-77	-59	1.475	-7	-82	-75	11	-5	889	7	30	N/A	M	H	
1082	30	882	8/22/2015	-17	-79	-62	1.55	-7	-81	-74	10	-2	890	8	30	N/A	M	H	
1083	31	883	8/23/2015	-20	-80	-60	1.5	-7	-80	-73	13	0	889	6	31	N/A	M	H	
1084	31	885	8/24/2015	-22	-78	-56	1.4	-9	-77	-68	13	1	890	5	31	N/A	H	H	
1085	32	886	8/25/2015	-23	-79	-56	1.4	-10	-78	-68	13	1	889	3	32	N/A	M	H	
1086	32	885	8/26/2015	-25	-82	-57	1.425	-2	-82	-80	23	0	890	5	32	N/A	H	H	
1087	33	885	8/27/2015	-19	-78	-57	1.425	-3	-83	-80	16	-5	891	6	33	N/A	H	H	
1088	33	885	8/29/2015	-19	-77	-58	1.45	-7	-76	-69	12	1	891	4	33	N/A	H	H	
1089	34	885	8/30/2015	-19	-76	-57	1.425	-7	-76	-69	12	0	892	7	33	N/A	H	H	
1090	34	886	8/31/2015	-20	-78	-58	1.45	-6	-76	-70	14	2	891	5	34	N/A	H	H	
1091	35	886	9/1/2015	-21	-77	-56	1.4	-7	-77	-70	14	0	893	7	34	N/A	H	M	
1092	35	886	9/2/2015	-23	-79	-56	1.4	-8	-78	-70	15	1	892	6	35	N/A	H	M	

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1093	36	887	9/3/2015	-21	-77	-56	1.4	-4	-79	-75	17	-2	893	6	35	N/A	H	M	
1094	36	888	9/4/2015	-20	-80	-60	1.5	-7	-75	-68	13	5	893	5	36	N/A	H	M	
1095	36	888	9/5/2015	-24	-79	-55	1.375	-8	-77	-69	16	2	893	5	36	N/A	M	M	
1096	37	888	9/6/2015	-24	-79	-55	1.375	-7	-78	-71	17	1	893	5	37	N/A	M	M	
1097	37	889	9/7/2015	-27	-78	-51	1.275	-8	-79	-71	19	-1	895	4	37	N/A	M	M	
1098	38	890	9/8/2015	-26	-78	-52	1.3	-10	-79	-69	16	-1	895	5	38	902	M	M	
1099	38	891	9/9/2015	-24	-78	-54	1.35	-7	-80	-73	17	-2	896	5	38	N/A	M	M	
1100	39	890	9/10/2015	-22	-79	-57	1.425	-8	-85	-77	14	-6	895	5	39	N/A	M	M	
1101	39	891	9/11/2015	-23	-80	-57	1.425	-4	-81	-77	19	-1	896	5	39	N/A	M	M	
1102	40	892	9/12/2015	-25	-84	-59	1.475	-6	-83	-77	19	1	895	3	40	N/A	M	M	
1103	40	893	9/13/2015	-26	-81	-55	1.375	-5	-81	-76	21	0	896	3	40	N/A	M	M	
1104	41	893	9/14/2015	-25	-79	-54	1.35	-6	-84	-78	19	-5	897	4	40	N/A	M	M	
1105	41	892	9/15/2015	-25	-78	-53	1.325	-9	-83	-74	16	-5	897	5	41	N/A	M	M	
1106	42	893	9/16/2015	-22	-82	-60	1.5	-8	-82	-74	14	0	899	6	42	N/A	M	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	EARTHDATE	MAX AIR TEMP °C	MIN AIR TEMP °C	AIR TEMP RANGE °C <div>Yellow = -59°C or warmer</div>	AIR TEMP RANGE °C/40 <div>Green = <1.5</div>	MAX GROUND TEMP °C <div>Red = > 0°C</div>	MIN GROUND TEMP °C <div>PURPLE = >=90°C or colder</div>	Δ GROUND TEMP DAY TONIGHT <div>Yellow numbers = - 80 to -89 °C, <div>red background = -90°C or colder drop</div></div>	DAYTIME CHANGE IN TEMP °C AIR TO GROUND <div>Blue = >10°C</div>	NIGHTTIME CHANGE IN TEMP °C AIR TO GROUND <div>PURPLE = >10°C</div>	PRESSURE AT SAME LS IN MSL YEAR 1	Δ PRESSURE YEAR 1 TO YEAR 2 SAME LS (yellow = > 7 Pa)	~LS year 1	PRESSURE YEAR 1 BEFORE REVISION	UV YR 2	UV YR 1	COMMENTS

1107	42	893	9/17/2015	-24	-79	-55	1.375	-7	-80	-73	17	-1	899	6	42	N/A	M	M	
1108	42	895	9/18/2015	-25	-78	-53	1.325	-6	-81	-75	19	-3	899	4	43	N/A	M	M	
1109	43	895	9/19/2015	-26	-82	-56	1.4	-7	-79	-72	19	3	900	5	43	N/A	M	M	
1110	43	895	9/20/2015	-25	-81	-56	1.4	-8	-82	-74	17	-1	900	5	44	N/A	M	M	
1111	44	896	9/21/2015	-26	-79	-53	1.325	-13	-79	-66	13	0	901	5	44	N/A	H	M	
1112	44	895	9/22/2015	-24	-80	-56	1.4	-10	-78	-68	14	2	N/A	N/A	44	N/A	H	N/A	
1113	45	895	9/23/2015	-24	-79	-55	1.375	-12	-74	-62	12	5	N/A	N/A	45	N/A	M	N/A	
1114	45	896	9/24/2015	-25	-79	-54	1.35	-12	-75	-63	13	4	N/A	N/A	45	N/A	M	N/A	
1115	46	897	9/25/2015	-21	-80	-59	1.475	-11	-76	-65	10	4	N/A	N/A	46	N/A	M	N/A	
1116	46	898	9/26/2015	-26	-79	-53	1.325	-13	-77	-64	13	2	N/A	N/A	46	N/A	M	N/A	
1117	47	898	9/27/2015	-25	-79	-54	1.35	-12	-78	-66	13	1	N/A	N/A	47	N/A	M	N/A	
1118	47	898	9/28/2015	-25	-80	-55	1.375	-13	-76	-63	12	4	N/A	N/A	47	N/A	M	N/A	
1119	48	908	9/29/2015	-55	-81	-26	0.65	-46	-76	-30	9	5	N/A	N/A	48	N/A	L	N/A	Data likely wrong. Look for JPL to alter it!

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
SOL	~LS	PRESSURE Pa	EARTHDATE	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 TONIGHT	DAYTIME CHANGE IN TEMP °C AIR TO GROUND	NIGHTTIME CHANGE IN TEMP °C AIR TO GROUND	PRESSURE AT SAME LS IN MSL YEAR 1	Δ PRESSURE YEAR 1 TO YEAR 2 SAME LS (yellow = > 7 Pa)	~LS year 1	PRESSURE YEAR 1 BEFORE REVISION	UV YR 2	UV YR 1	COMMENTS
						Yellow = -59°C or warmer	Green = <1.5	Red = > 0°C	PURPLE = >=90°C or colder	Yellow numbers = - 80 to -89 °C, red background = -90°C or colder drop	Blue = >10°C	PURPLE = >10°C							

1119	48	899	9/29/2015	-22	-81	-59	1.475	-12	-76	-64	10	5	N/A	N/A	48	N/A	M	N/A	BINGO! As predicted on the line above, the REMS Team/ JPL altered the report for Sol 1119 on the day after it was first published. See Figure 1 below.
1120	48	900	9/30/2015	-24	-80	-56	1.4	-11	-75	-64	13	5	N/A	N/A	48	N/A	M	N/A	
1121	48	901	10/1/2015	-25	-81	-56	1.4	-13	-77	-64	12	4	N/A	N/A	49	N/A	M	N/A	
1122	49	901	10/2/2015	-26	-79	-53	1.325	-13	-78	-65	13	1	N/A	N/A	49	N/A	M	N/A	
1123	49	900	10/3/2015	-27	-79	-52	1.3	-12	-78	-66	15	1	905	5	50	N/A	M	N/A	
1124	50	900	10/4/2015	-26	-80	-54	1.35	-12	-78	-66	14	1	905	5	50	N/A	M	M	
1125	50	900	10/6/2015	-22	-79	-57	1.425	-13	-78	-65	9	1	N/A	N/A	51	N/A	M	N/A	
1126	51	901	10/7/2015	-21	-79	-58	1.45	-12	-78	-66	9	1	N/A	N/A	51	N/A	M	N/A	
1127	51	910	10/8/2015	-30	-80	-50	1.25	-13	-77	-64	17	3	N/A	N/A	52	N/A	M	N/A	Secondary pressure max Year 1 was 908 on Ls 56, but data was missing for Ls 51 to 53 and Ls 57.
1127	51	901	10/8/2015	-27	-80	-53	1.325	-13	-77	-64	14	3	N/A	N/A	52	N/A	M		JPL alters earlier data after I published this color-coled data.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
SOL	~LS	PRESSURE Pa	EARTHDATE	MAX AIR TEMP °C	MIN AIR TEMP °C	AIR TEMP RANGE °C Yellow = -59°C or warmer	AIR TEMP RANGE °C/40 Green = <1.5	MAX GROUND TEMP °C Red = > 0°C	MIN GROUND TEMP °C PURPLE = >=90°C or colder	Δ GROUND TEMP DAY TONIGHT Yellow numbers = - 80 to -89 °C, red background = -90°C or colder drop	DAYTIME CHANGE IN TEMP °C AIR TO GROUND Blue = >10°C	NIGHTTIME CHANGE IN TEMP °C AIR TO GROUND PURPLE = >10°C	PRESSURE AT SAME LS IN MSL YEAR 1	Δ PRESSURE YEAR 1 TO YEAR 2 SAME LS (yellow = > 7 Pa)	~LS year 1	PRESSURE YEAR 1 BEFORE REVISION	UV YR 2	UV YR 1	COMMENTS

1128	52	902	10/9/2015	-27	-79	-52	1.3	-13	-78	-65	14	1	N/A	N/A	52	N/A	M	N/A	
1129	52	902	10/10/2015	-23	-80	-57	1.425	-14	-78	-64	9	2	N/A	N/A	53	N/A	M	N/A	
1130	53	902	10/11/2015	-25	-81	-56	1.4	-13	-78	-65	12	3	N/A	N/A but 15 Pa off original	53	887	M	N/A	
1131	53	902	10/12/2015	-28	-81	-53	1.325	-14	-77	-63	14	4	906	4	53	N/A	M	M	
1132	53	902	10/13/2015	-27	-82	-55	1.375	-14	-77	-63	13	5	906	4	54	N/A	M	M	
1133	54	902	10/14/2015	-26	-82	-56	1.4	-14	-78	-64	12	4	906	4	54	N/A	M	M	
1134	54	902	10/15/2015	-27	-80	-53	1.325	-14	-81	-67	13	-1	907	5	55	N/A	M	M	
1135	55	901	10/16/2015	-27	-81	-54	1.35	-15	-81	-66	12	0	907	6	55	N/A	M	M	
1136	55	901	10/17/2015	-23	-82	-59	1.475	-14	-74	-60	9	8	907	6	N/A	N/A	M	M	
1137	56	901	10/18/2015	-26	-81	-55	1.375	-14	-79	-65	12	2	908	7	56	N/A	M	M	
1138	56	901	10/19/2015	-29	-82	-53	1.325	-15	-78	-63	14	4	N/A	N/A	56	N/A	M	M	
1139	57	901	10/20/2015	-25	-80	-55	1.375	-14	-80	-66	11	0	906	5	57	N/A	M	M	
1140	57	901	10/21/2015	-26	-81	-55	1.375	-16	-80	-64	10	1	907	6	57	N/A	M	M	
1141	57	902	10/22/2015	-28	-82	-54	1.35	-12	-80	-68	16	2	907	5	58	N/A	M	M	
1142	58	902	10/23/2015	-23	-82	-59	1.475	-14	-79	-65	9	3	906	4	58	N/A	M	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	EARTHDATE	MAX AIR TEMP °C	MIN AIR TEMP °C	AIR TEMP RANGE °C Yellow = -59°C or warmer	AIR TEMP RANGE °C/40 Green = <1.5	MAX GROUND TEMP °C Red = > 0°C	MIN GROUND TEMP °C PURPLE = >=90°C or colder	Δ GROUND TEMP DAY TONIGHT Yellow numbers = - 80 to -89 °C, red background = -90°C or colder drop	DAYTIME CHANGE IN TEMP °C AIR TO GROUND Blue = >10°C	NIGHTTIME CHANGE IN TEMP °C AIR TO GROUND PURPLE = >10°C	PRESSURE AT SAME LS IN MSL YEAR 1	Δ PRESSURE YEAR 1 TO YEAR 2 SAME LS (yellow = > 7 Pa)	~LS year 1	PRESSURE YEAR 1 BEFORE REVISION	UV YR 2	UV YR 1	COMMENTS

1143	58	901	10/24/2015	-29	-82	-53	1.325	-17	-78	-61	12	4	906	5	59	N/A	M	M	
1144	59	902	10/25/2015	-28	-82	-54	1.35	-10	-78	-68	18	4	906	4	59	N/A	M	M	
1145	59	907	10/26/2015	-33	-82	-49	1.225	-20	-84	-64	13	-2	907	0	60	N/A	M	M	Suspiciously low hi temps, low ratio in column H. Watch for a revision by JPL/REMS.
1145	59	903	10/26/2015	-29	-82	-53	1.325	-12	-84	-72	17	-2	907	4	60	N/A	M	M	Bingo! JPL again makes data revisions on 10/31/2015 that we predicted on 10/28/2015. See Figure 2.
1146	60	902	10/27/2015	-28	-82	-54	1.35	-10 revised to - 16	-84 revised to -83	-74 revised to -67	18 revised to 12	-2 revised to -1	N/A	N/A	60	N/A	M	M	
1147	60	901	10/28/2015	-29	-80	-51	1.275	-17	-85	-68	12	-5	N/A	N/A	60	N/A	M	N/A	
1148	61	901	10/29/2015	-28	-80	-52	1.3	-15	-83	-68	13	-3	N/A	N/A	61	N/A	M	N/A	
1149	61	902	10/30/2015	-23	-81	-58	1.45	-17	-83	-66	6	-2	N/A	N/A	61	N/A	M	N/A	
1150	62	902	10/31/2015	-29	-82	-53	1.325	-17	-86	-69	12	-4	N/A	N/A	62	N/A	M	N/A	
1151	62	901	11/1/2015	-31	-82	-51	1.275	-17	-78	-61	14	4	N/A	N/A	62	N/A	M	N/A	
1152	62	901	11/2/2015	-30	-80	-50	1.25	-17	-85	-68	13	-5	N/A	N/A	63	N/A	M	N/A	
1153	63	900	11/3/2015	-31	-82	-51	1.275	-16	-83	-67	15	-1	N/A	N/A	63	N/A	M	N/A	

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
SOL	~LS	PRESSURE Pa	EARTHDATE	MAX AIR TEMP °C	MIN AIR TEMP °C	AIR TEMP RANGE °C Yellow = -59°C or warmer	AIR TEMP RANGE °C/40 Green = <1.5	MAX GROUND TEMP °C Red = > 0°C	MIN GROUND TEMP °C PURPLE = >=90°C or colder	Δ GROUND TEMP DAY TONIGHT Yellow numbers = - 80 to -89 °C, red background = -90°C or colder drop	DAYTIME CHANGE IN TEMP °C AIR TO GROUND Blue = >10°C	NIGHTTIME CHANGE IN TEMP °C AIR TO GROUND PURPLE = >10°C	PRESSURE AT SAME LS IN MSL YEAR 1	Δ PRESSURE YEAR 1 TO YEAR 2 SAME LS (yellow = > 7 Pa)	~LS year 1	PRESSURE YEAR 1 BEFORE REVISION	UV YR 2	UV YR 1	COMMENTS

1154	63	900	11/4/2015	-29	-84	-55	1.375	-13	-83	-70	16	1	904	4	64	N/A	M	M	
1155	64	900	11/5/2015	-26	-84	-58	1.45	-13	-83	-70	13	1	904	4	64	N/A	M	M	
1156	64	900	11/6/2015	-30	-84	-54	1.35	-13	-85	-72	17	-1	903	3	64	N/A	M	M	
1157	65	900	11/7/2015	-32	-82	-54	1.35	-14	-84	-70	17	-2	904	4	65	N/A	M	M	
1158	65	898	11/8/2015	-28	-82	-54	1.35	-12	-87	-75	16	-5	904	6	65	N/A	M	M	
1159	66	898	11/9/2015	-28	-82	-54	1.35	-14	-84	-70	14	-2	903	5	66	N/A	M	M	
1160	66	1177	11/10/2015	-28	-80	-52	1.3	-15	-88	-73	13	-8	903	274	66	N/A	M	M	The pressures here and on the next sol are above the ability of the MSL pressure sensor to measure.
1161	66	1200	11/12/2015	-26	-83	-57	1.425	-13	-84	-71	13	-1	902	298	67	N/A	M	M	Watch for JPL to alter pressures for sol 1160 and 1161. See Figure 3 below which preserves the pressures for these two sols.
1160	66	899											903	4 revised from 274.					BINGO! See Figure 4 below. On 1/21/2016, the day after we caught the REMS Team reviewing these spreadsheets they revised the pressure for Sol 1160 from 1177 Pa to 899 Pa and for Sol 1161 from 1200 Pa to 898 Pa.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
SOL	~LS	PRESSURE Pa	EARTHDATE	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 TONIGHT	DAYTIME CHANGE IN TEMP °C AIR TO GROUND	NIGHTTIME CHANGE IN TEMP °C AIR TO GROUND	PRESSURE AT SAME LS IN MSL YEAR 1	Δ PRESSURE YEAR 1 TO YEAR 2 SAME LS (yellow = > 7 Pa)	~LS year 1	PRESSURE YEAR 1 BEFORE REVISION	UV YR 2	UV YR 1	COMMENTS
						Yellow = -59°C or warmer	Green = <1.5	Red = > 0°C	PURPLE = >=90°C or colder	Yellow numbers = - 80 to -89 °C, red background = -90°C or colder drop	Blue = >10°C	PURPLE = >10°C							

1161	66	898											902	4 revised from 298.					See above. NASA should hire us to fix their broken data analysis system.
1162	67	897	11/13/2015	-24	-84	-57	1.425	-12	-85	-72	15	0	902	5	67	N/A	M	M	
1163	67	896	11/14/2015	-29	-86	-57	1.425	-12	-87	-75	17	-1	900	4	68	N/A	M	M	
1164	68	896	11/15/2015	-35	-86	-51	1.275	-14	-88	-74	21	-2	901	5	68	N/A	M	M	Record cold high temperature.
1165	68	897	11/16/2015	-35	-84	-49	1.225	-61	-89	-28	-26	-5	901	4	69	N/A	M	M	Severely cold record high ground temp. Watch for revision by JPL.
1166	69	895	11/17/2015	-31	-84	-53	1.325	-12	-78	-66	19	6	901	6	69	N/A	M	M	
1167	69	894	11/18/2015	-25	-84	-59	1.475	-13	-85	-72	12	-1	894	5	69	N/A	M	M	Air Temp low altered from -85 to -84
1168	70	894	11/19/2015	-29	-84	-55	1.375	-10	-86	-76	19	-2	897	3	70	N/A	M	M	
1169	70	894	11/20/2015	-32	-89	-57	1.425	-16	-89	-73	16	0	898	4	70	N/A	M	M	MARS APHELION
1170	71	893	11/21/2015	-31	-85	-54	1.35	-15	-89	-74	16	-4	898	5	71	N/A	M	M	
1171	71	892	11/22/2015	-29	-87	-58	1.45	-15	-90	-75	14	-3	N/A	N/A	71	N/A	M	M	
1172	71	892	11/23/2015	-26	-87	-61	1.525	-13	-91	-78	13	-4	895	3	72	N/A	M	M	
1173	72	892	11/24/2015	-31	-87	-56	1.4	-14	-83	-69	17	4	895	3	72	N/A	M	M	
1174	72	891	11/25/2015	-25	-85	-60	1.5	-8	-86	-78	17	-1	894	3	73	N/A	M	M	

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SOL	~LS	PRESSURE Pa	EARTHDATE	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 TONIGHT	DAYTIME CHANGE IN TEMP °C AIR TO GROUND	NIGHTTIME CHANGE IN TEMP °C AIR TO GROUND	PRESSURE AT SAME LS IN MSL YEAR 1	Δ PRESSURE YEAR 1 TO YEAR 2 SAME LS (yellow = > 7 Pa)	~LS year 1	PRESSURE YEAR 1 BEFORE REVISION	UV YR 2	UV YR 1	COMMENTS
						Yellow = -59°C or warmer	Green = <1.5	Red = > 0°C	PURPLE = >=90°C or colder	Yellow numbers = - 80 to -89 °C, red background = -90°C or colder drop	Blue = >10°C	PURPLE = >10°C							

1175	73	890	11/26/2015	-23	-85	-62	1.55	-11	-86	-75	12	-1	894	4	73	N/A	M	M	
1176	73	890	11/27/2015	-31	-84	-53	1.325	-12	-89	-77	19	-5	893	3	73	N/A	M	M	
1177	74	888	11/28/2015	-27	-84	-57	1.425	-12	-89	-77	15	-5	895	5	74	N/A	M	M	
1178	74	888	11/29/2015	-26	-86	-60	1.5	-13	-88	-75	13	-2	892	4	74	N/A	M	M	
1179	75	887	11/30/2015	-25	-85	-60	1.5	-12	-88	-76	13	-3	892	5	75	N/A	M	M	
1180	75	886	12/1/2015	-27	-86	-59	1.475	-11	-87	-76	16	-1	890	4	75	N/A	M	M	
1181	75	885	12/2/2015	-24	-86	-62	1.55	-7	-86	-79	17	0	889	4	76	N/A	M	M	
1182	76	884	12/3/2015	-29	-85	-56	1.4	-6	-91	-85	23	-6	888	4	76	N/A	M	M	
1183	76	883	12/4/2015	-26	-86	-60	1.5	-5	-91	-86	21	-5	888	5	77	N/A	M	M	
1184	77	882	12/5/2015	-28	-85	-57	1.425	-4	-94	-90	24	-9	888	6	77	N/A	M	M	Odd: Day ground temps seem to warm a lot while night ground temps drop a lot. Winter solstice not far off (at Ls 90).
1185	77	881	12/6/2015	-24	-84	-60	1.5	-3	-94	-91	21	-10	885	4	77	N/A	H	M	Warm ground temp close to winter solstice
1186	78	881	12/7/2015	-28	-86	-58	1.45	-8	-87	-79	20	-1	885	4	78	N/A	H	M	
1187	78	881	12/8/2015	-29	-84	-55	1.375	-8	-91	-83	21	-7	884	3	78	N/A	M	M	

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SOL	~LS	PRESSURE Pa	EARTHDATE	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 TONIGHT	DAYTIME CHANGE IN TEMP °C AIR TO GROUND	NIGHTTIME CHANGE IN TEMP °C AIR TO GROUND	PRESSURE AT SAME LS IN MSL YEAR 1	Δ PRESSURE YEAR 1 TO YEAR 2 SAME LS (yellow = > 7 Pa)	~LS year 1	PRESSURE YEAR 1 BEFORE REVISION	UV YR 2	UV YR 1	COMMENTS
						Yellow = -59°C or warmer	Green = <1.5	Red = > 0°C	PURPLE = >=90°C or colder	Yellow numbers = - 80 to -89 °C, red background = -90°C or colder drop	Blue = >10°C	PURPLE = >10°C							

1188	79	881	12/9/2015	-31	-90	-59	1.475	-11	-87	-76	20	3	884	3	79	N/A	M	M	
1189	79	879	12/10/2015	-24	-87	-63	1.575	-10	-85	-75	14	2	882	3	79	N/A	M	M	
1190	79	877	12/11/2015	-29	-87	-58	1.45	-12	-84	-72	17	3	881	4	80	N/A	H	M	
1191	80	876	12/12/2015	-28	-87	-59	1.475	-11	-83	-72	17	4	881	5	80	N/A	H	M	
1192	80	875	12/13/2015	-24	-86	-62	1.55	-10	-87	-77	14	-1	881	6	81	N/A	H	M	
1193	81	875	12/14/2015	-28	-84	-56	1.4	-10	-86	-76	18	-2	880	5	81	N/A	M	M	
1194	81	873	12/15/2015	-29	-84	-55	1.375	-5	-87	-82	24	-3	878	5	82	N/A	M	M	Warm ground temp close to winter solstice
1195	82	871	12/16/2015	-30	-80	-50	1.25	-6	-82	-76	24	-2	877	6	82	N/A	M	M	
1196	82	871	12/17/2015	-27	-86	-59	1.475	-7	-86	-79	20	0	876	5	82	N/A	M	M	
1197	83	869	12/18/2015	-26	-85	-59	1.475	-13	-88	-75	13	-3	875	6	83	N/A	M	M	
1198	83	868	12/20/2015	-23	-86	-63	1.575	-13	-89	-76	10	-3	873	5	83	N/A	L	M	
1199	84	868	12/21/2015	-29	-86	-57	1.425	-14	-88	-74	15	-2	872	4	84	N/A	L	M	
1200	84	866	12/22/2015	-27	-84	-57	1.425	-12	-88	-76	15	-4	872	6	84	N/A	L	M	
1201	84	866	12/23/2015	-29	-85	-56	1.4	-13	-88	-75	16	-3	871	5	85	N/A	M	M	

A	B	C	D	E		G	H	I	J	K	L	M	N	O	P	Q	R	S	T
SOL	~LS	PRESSURE Pa	EARTHDATE	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 TONIGHT	DAYTIME CHANGE IN TEMP °C AIR TO GROUND	NIGHTTIME CHANGE IN TEMP °C AIR TO GROUND	PRESSURE AT SAME LS IN MSL YEAR 1	Δ PRESSURE YEAR 1 TO YEAR 2 SAME LS (yellow = > 7 Pa)	~LS year 1	PRESSURE YEAR 1 BEFORE REVISION	UV YR 2	UV YR 1	COMMENTS
						Yellow = -59°C or warmer	Green = <1.5	Red = > 0°C	PURPLE = >=90°C or colder	Yellow numbers = - 80 to -89 °C, red background = -90°C or colder drop	Blue = >10°C	PURPLE = >10°C							

1202	85	864	12/24/2015	-22	-85	-63	1.575	-12	-87	-75	10	-2	869	5	85	N/A	M	M	
1203	85	863	12/25/2015	-23	-85	-62	1.55	-13	-87	-74	10	-2	868	5	86	N/A	M	M	
1204	86	862	12/26/2015	-25	-84	-59	-61 5	-12	-87	-75	13	-3	867	5	86	N/A	M	M	
1205	86	861	12/27/2015	-26	-86	-60	1.5	-13	-88	-75	13	-2	865	4	86	N/A	M	M	
1206	87	859	12/28/2015	-24	-85	-61	1.525	-13	-87	-74	11	-2	865	6	87	N/A	M	M	
1207	87	858	12/29/2015	-25	-85	-60	1.5	-13	-88	-75	12	-3	864	6	87	N/A	M	M	
1208	88	857	12/30/2015	-24	-85	-61	1.525	-12	-87	-75	12	-2	862	5	88	N/A	M	M	
1209	88	855	12/31/2015	-24	-85	-61	1.525	-12	-88	-76	12	-3	861	6	88	N/A	M	M	
1210	88	855	1/1/2016	-23	-85	-62	1.55	-12	-84	-72	11	1	867	12	89	N/A	M	M	
1211	89	853	1/2/2016	-22	-83	-61	1.525	-12	-86	-74	10	-3	858	5	89	N/A	M	M	
1212	89	855	1/3/2016	-28	-86	-58	1.45	-13	-86	-73	15	0	857	2	90	N/A	M	M	
1213	90	851	1/4/2016	-27	-84	-57	1.425	-12	-87	-75	15	-3	856	5	90	N/A	M	M	FIRST DAY OF WINTER

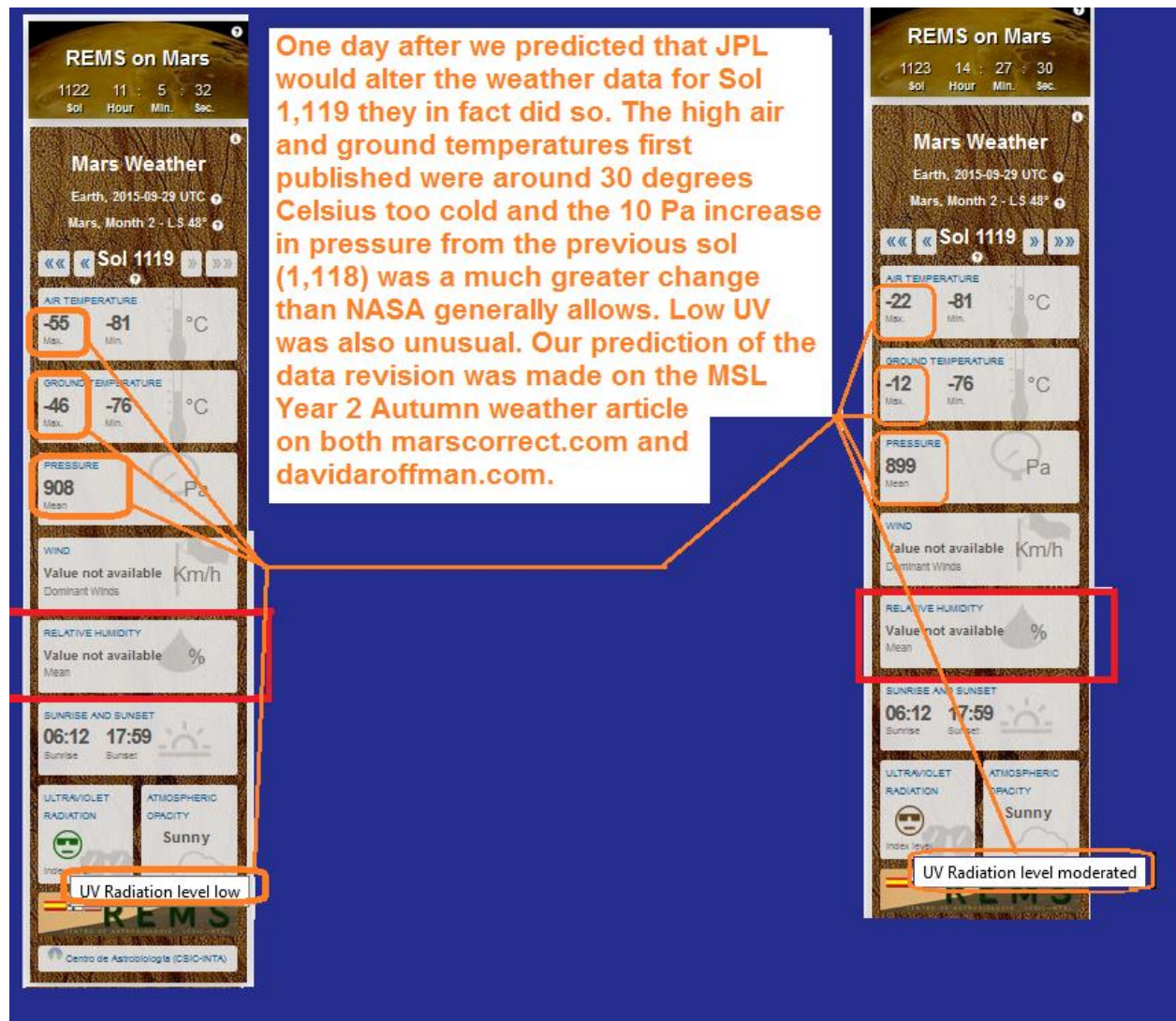


Figure 1 above. On October 3, 2015 JPL made the revisions to Sol 1,119 that we predicted a day earlier on October 2, 2015.

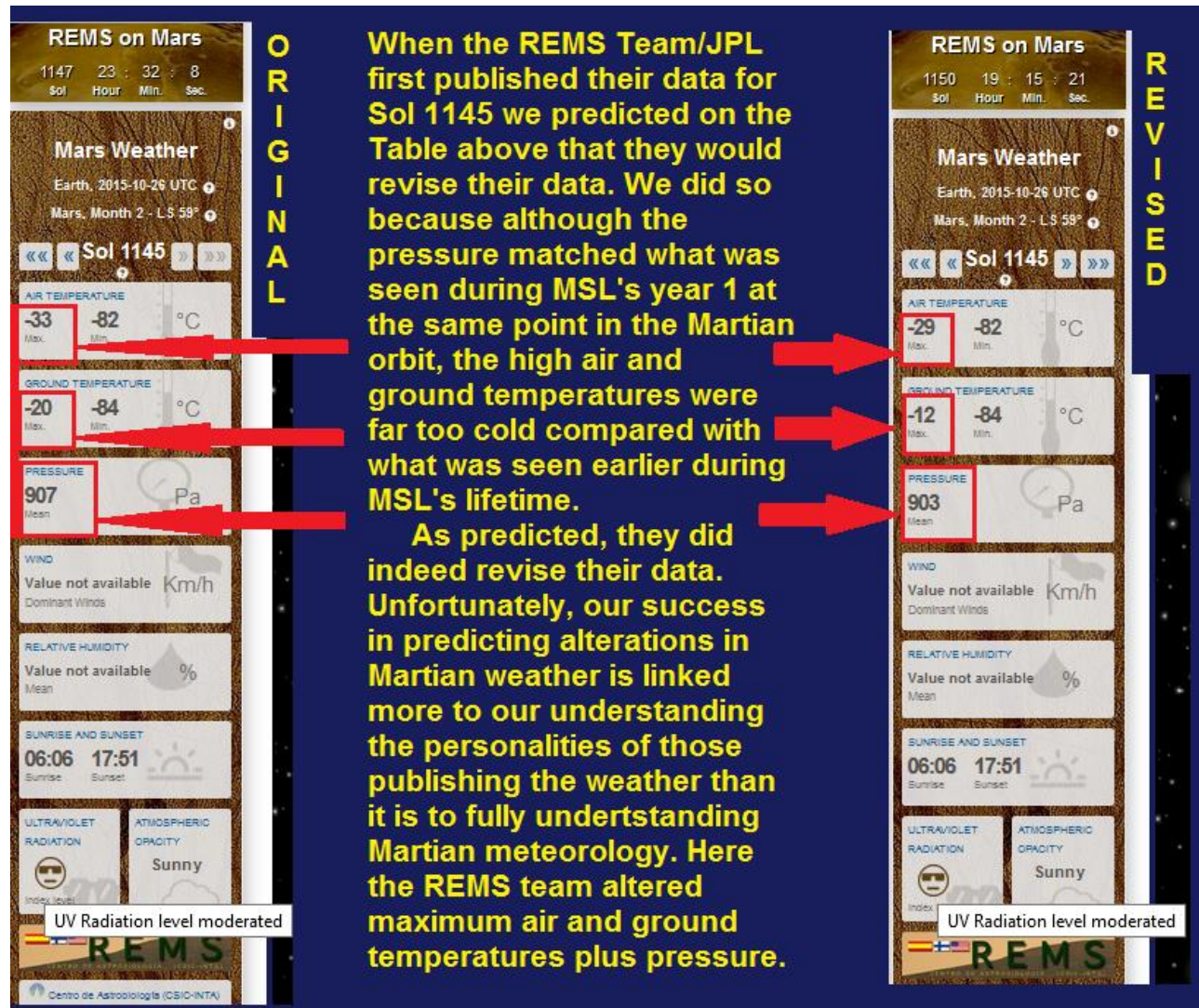


Figure 2: On October 31, 2015 JPL made the revisions to Sol 1,145 that we predicted on October 28, 2015.

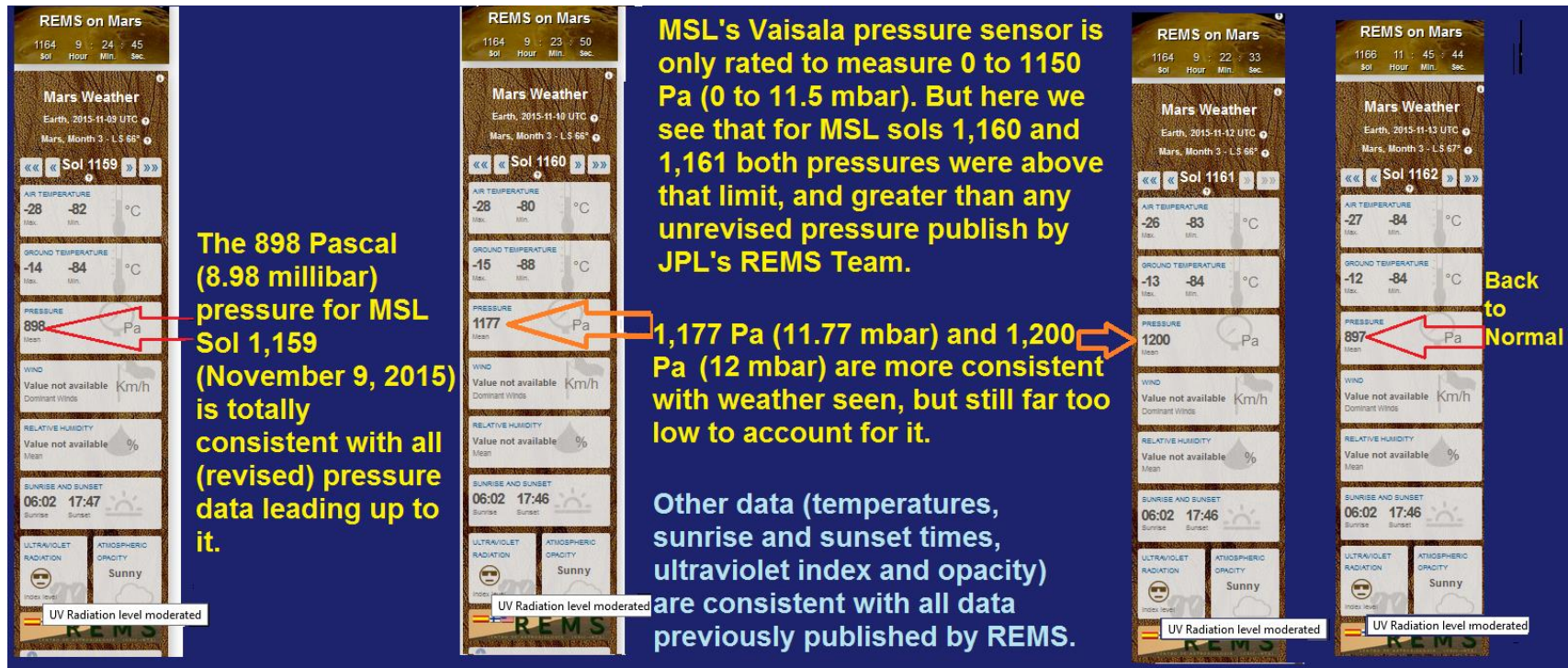


Figure 3: We predicted that JPL would alter the pressure data for sols 1160 and 1161 because the 1,117 Pa and 1,200 Pa mean pressures were above the 1,150 Pa rated ability of the Vaisala pressure sensor to measure for MSL. However, the predicted retreat has not yet occurred as of January 11, 2016 – probably because they saw that we were publishing their response with predictions on our tables and print-screens to back up our assertions. What is particularly odd about the 1,177 Pa pressure on Sol 1160 is that the REMS team had previously published a pressure of 857 Pa for that date. That was in line with previous pressures, yet for some reason they chose to go off script and off chart to raise the pressure in this bizarre manner (to a pressure higher than any previous accepted pressure measurement on Mars). Then they went higher still for the next sol (to 1,200 Pa/12 mbar) before falling right back into their old pattern at 857 Pa for Sol 1162. We think this may point to personnel issues which could conceivably relate to our ongoing audit of all their data.

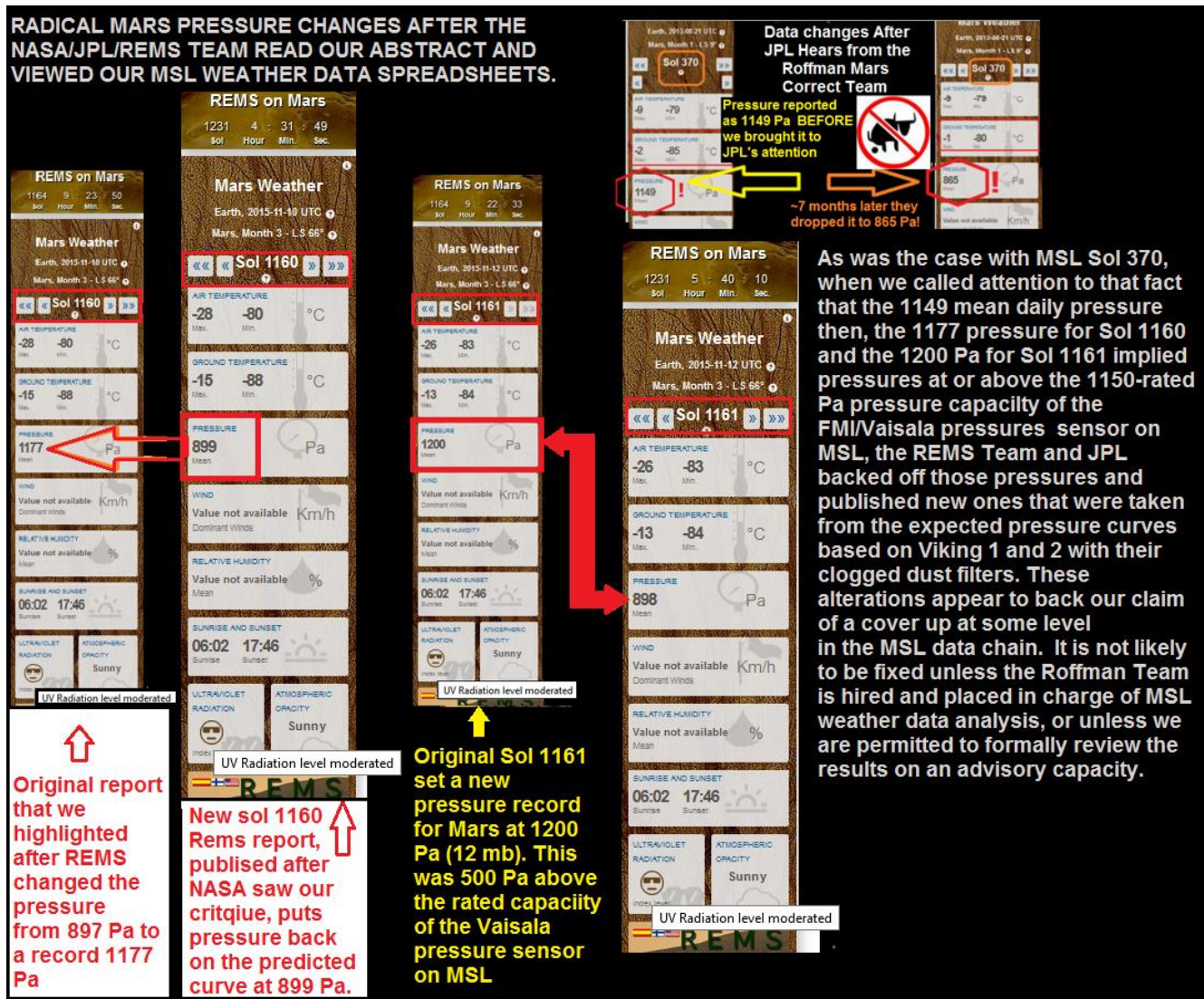


Figure 4 - On January 21, 2016 NASA finally caved and, as we predicted, took down the 1,177 and 1,200 record pressures for MSL Sols 1160 and 1161. There was an extensive review of our weather spreadsheets by IP address 161.111.124.7 from Consejo Superior de Investigaciones, Madrid, Spain on 1/20/2016 - the day before the pressures were dropped for Sols 1160 and 1161. These people manage Centro de Astrobiología which is where the REMS Team puts out the weather data for MSL.