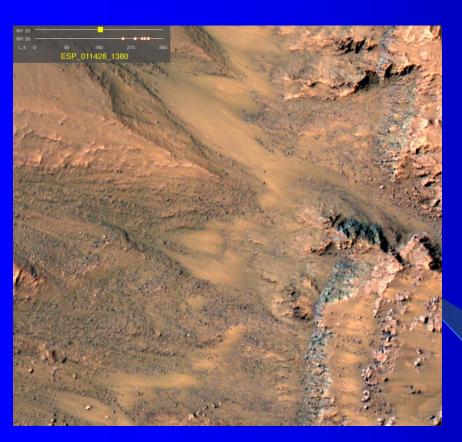
MARS CORRECT? MARS IS WET!





Critique of All NASA Mars Weather Data

By Barry S. Roffman, Lieutenant, USCG-Retired

Technical advice by Dr. David A. Roffman (PhD, physics)

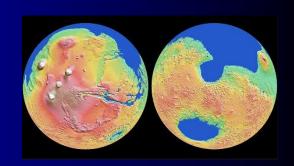
Updated January 29, 2017

Why go to or care about Mars?

Many think life started on Mars, came here via meteorites

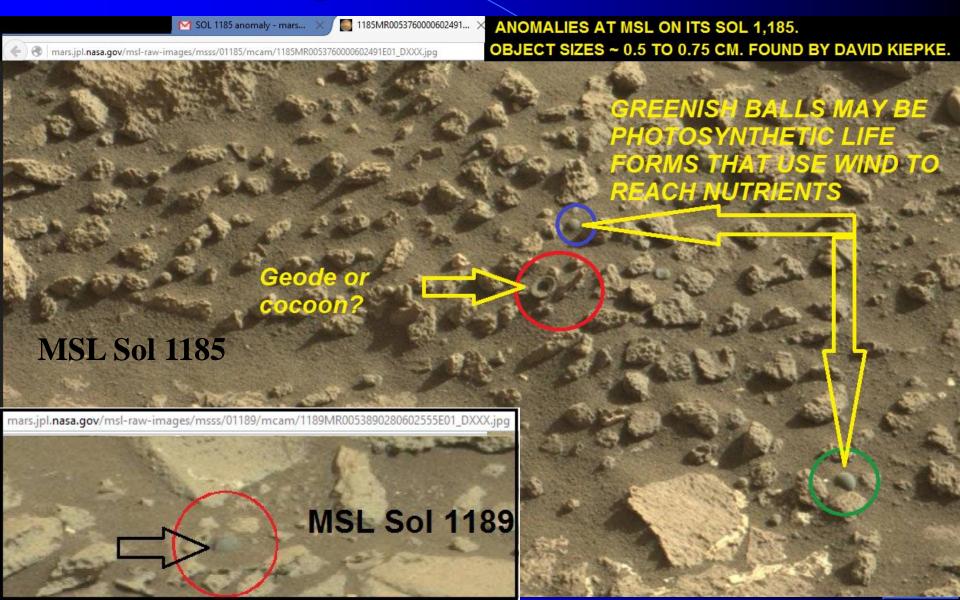






- An asteroid or comet probably wiped out dinosaurs here.
- ■We have all our survival "eggs" in 1 basket (Earth).
- Mars has natural resources including running water. It once had oceans.
- **■Viking 1 and 2 found evidence that it has life.**

Photos taken by Mars Science Laboratory on its sols 1185 and 1189 might show spherical life forms on Mars



Sufficient air pressure is essential for life. We dispute NASA's 6.1 mbar Mars areoid pressure.

Areoid is Mars equivalent of Sea Level.

Average Earth sea level pressure =

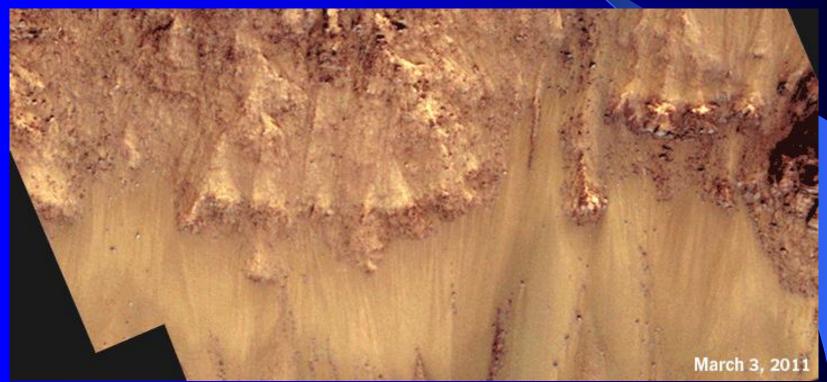
1,013.25 Mbar.



 6.1 Mbar is nearly a vacuum – no fun to experience.

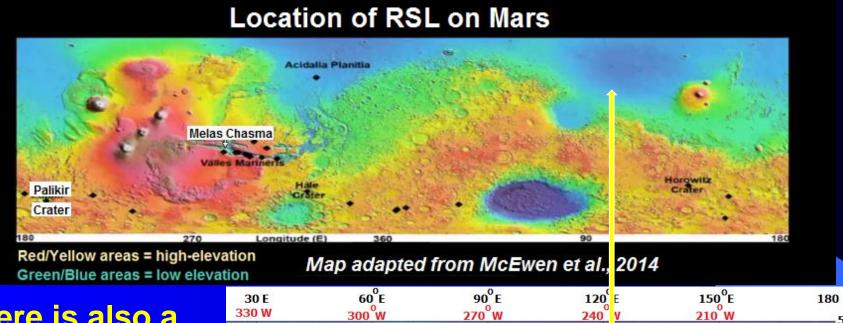
Why Question Pressure?

Running water isn't likely to be found on the surface of a planet with a near-vacuum surface. Water would boil off too fast. But Mars has thousands of these streams.

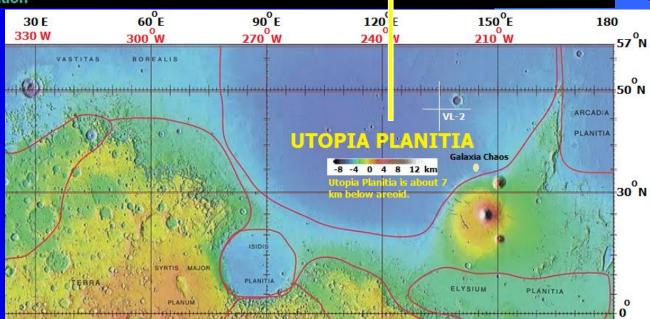


Palikir Crater inside Newton Crater

Surface water is associated with Recurring Slope Lineae (RSL). Where are they on Mars?



There is also a frozen sea at Utopia Planitia. It has the volume of Lake Superior on Earth.



Estimated Boiling Points for Places Where There Is Running Water On Mars

ESTIMATED BOILING POINT OF PURE WATER ON AN AVERAGE DAY IN PALIKIR CRATER INSIDE NEWTON CRATER

What is the local barometric pressure?

Millibars

7.34

The boiling point temperature of water is

-30.235

°F

The boiling point temperature of water is

-34.575

°C

The boiling point temperature of water is

238.575

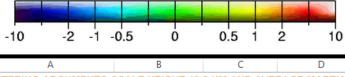
K

NEWTON CRATER

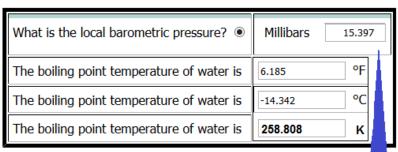
B.P. 238.7K if blue,

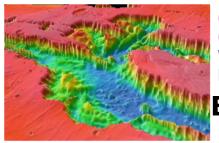
(-2 km) or lower if green

ALTITUDES IN KILOMETERS



ESTIMATED BOILING POINT OF PURE WATER ON AN AVERAGE DAY IN THE VALLES MARINERIS





COPRATES
CHASMA OF THE
VALLES
MARINERIS

B.P. 258.8K (6.2° F, -14.3 ° C)

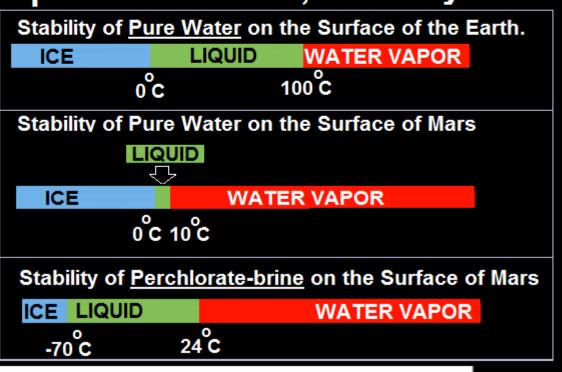
А	В	С	D	E	F	G					
ENTERING ARGUMENTS SCALE HEIGHT 10.8 KM AND AVERAGE MARTIAN PRESSURE 6.1 MBAR											
KILOMETERS	10.8 km Scale	RATIO A/B	=-EXP(C value)	1/D value	PRESSURE	PRESSURE IN					
	Height (MARS)				MARS BARS	MBAR					
PALIKIR CRATER -2	10.8	-0.185185185	-0.83095039	-1.203441279	1.203441279	7.340991802					
MEAN AREOID 0	10.8	0	-1	-1	1	6.1					
VALLES MARINERIS -10	10.8	-0.925925926	-0.39616443	-2.524204405	2.524204405	15.39764687					

Luju Ojha proved running water on Mars is linked to perchlorate salts. They should raise boiling points and lower freezing points on Mars.

But water found on Mars matches what is expected ____ for pure water there, not salty water.

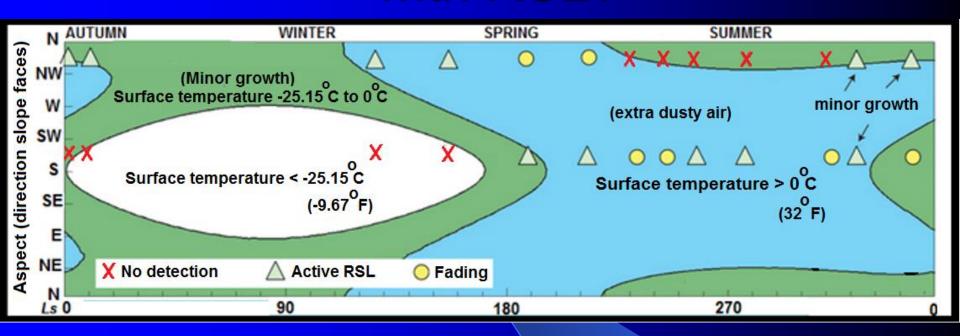


Luju Ojha
Georgia Institute of Technology
Ph.D. Candidate



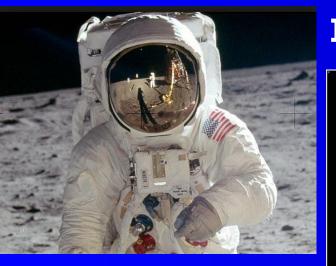
Adapted from mars.nasa.gov/news/whatsnew/index.cfm?FuseAction=ShowNews&NewsID=1858

What temperatures are associated with RSL?



- Generally close to or above the freezing point of water (0° C) on Earth.
- Where below 0° C perchlorate salts allow for lower freezing points (but this seems rare).

Martian Sky Color is an Issue.



In the Moon's vacuum the sky is black.

Why is the Martian sky so bright with under 10 mbar pressure What color really is it anyway?

Original color seen.

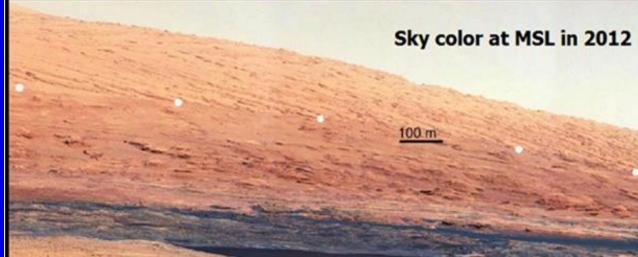


Sky color after order to alter color monitors by NASA Administrator Dr. James Fletcher.

Sky color seen at Viking 1 in 1976 - before and after alteration



At high altitudes over Earth, like 83,600 feet, (with 11.3 mbar) our sky goes black.



Initial Cause to Question Accepted Pressure

Dust devils on Mars and Earth are similar.
 (timing, electricity, core temperature rises, and often size but they can be much bigger on Mars)

Mars. http://mars.nasa.gov/mer/gallery/press/spirit/20050819a/dd_enhanced_568b-B558R1.gif



Earth

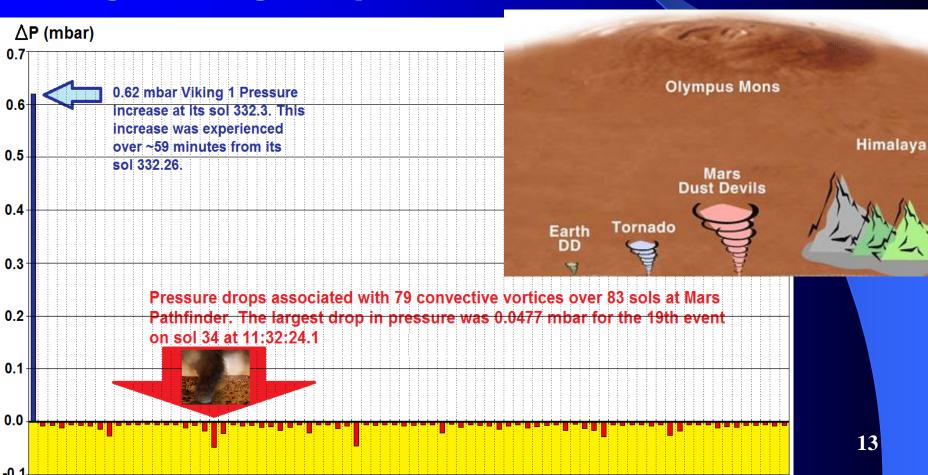


Similar dust particle size (.001 mm). But at 6.1 mbar pressure, an impossible 1,118 MPH wind is required to lift dust.

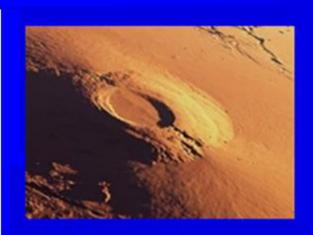


DUST DEVILS ARE THE MOST OBVIOUS WEATHER ODDITY

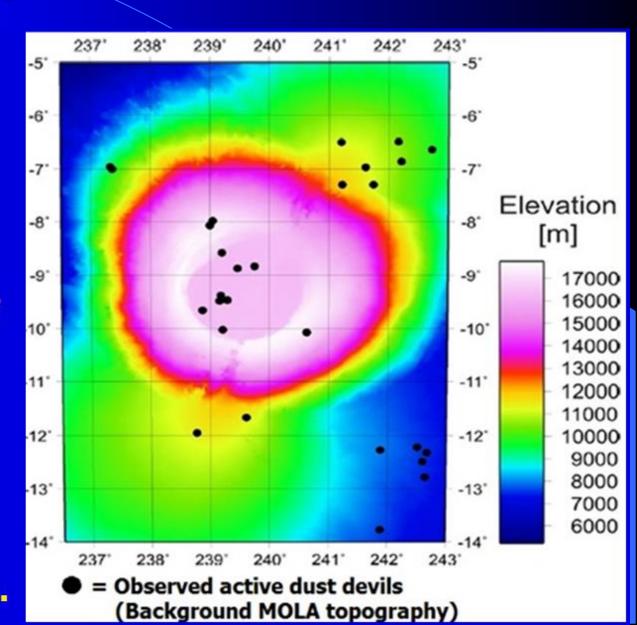
With so little air on Mars, how can there be enough change in pressure to form them at all?



Why Question Pressure?



Dust devils even form at a height of 10.6 miles (17 km) on the Arsia Mons mountain where pressure should only be 1/1000 th of Earth's pressure.



Why Question Pressure?

Dust storms increase air pressure and can block 99% of light on Mars (and Earth).



Mars_dust_opacities_MER-B_Sol_1205_to_1235.jpg (800 × 533 pixels, file size: 39 KB, MIME type: image/jpeg)

Phoenix, AZ Dust Storm of 5 July 2011

 Pressure increased by 6.6 mbar – that's more than average 6.1 mbar pressure on Mars.



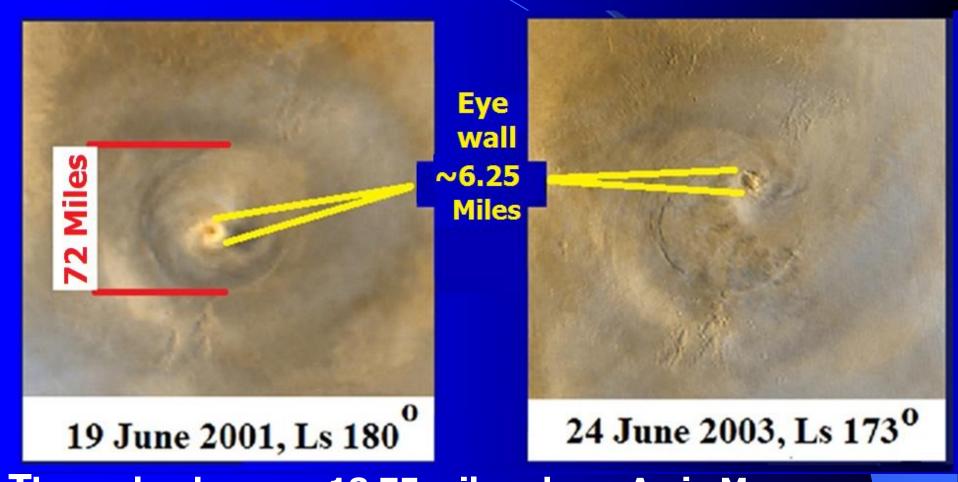
Pressure measured on MSL was at least 9.25 mbar.
 That + 6.6 mbar = 15.85 mbar. MSL can't even measure over 11.5 mbar.

Why Question Pressure?

 Snow on Mars with ice particles in clouds ten times too small for accepted pressure.



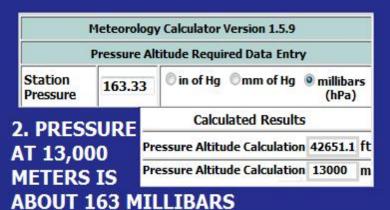
Spiral Clouds on Arsia Mons look like Hurricane Eye Walls. 1 mbar NASA claim seems too low.



These clouds go up 18.75 miles above Arsia Mons. Believe NASA, and pressure there is only ~.07 Mbar — too low to support such weather.

STRATUS CLOUDS 16 KM ABOVE MARS SUGGEST A PRESSURE AT AREOID OF 511 MBAR AND AT HELLIS BASIN HIGHER THAN PRESSURES ON EARTH AT SEA LEVEL.

1. CIRROSTRATUS
CLOUDS ARE
FOUND ON EARTH
UP TO 13,000
METERS HIGH.



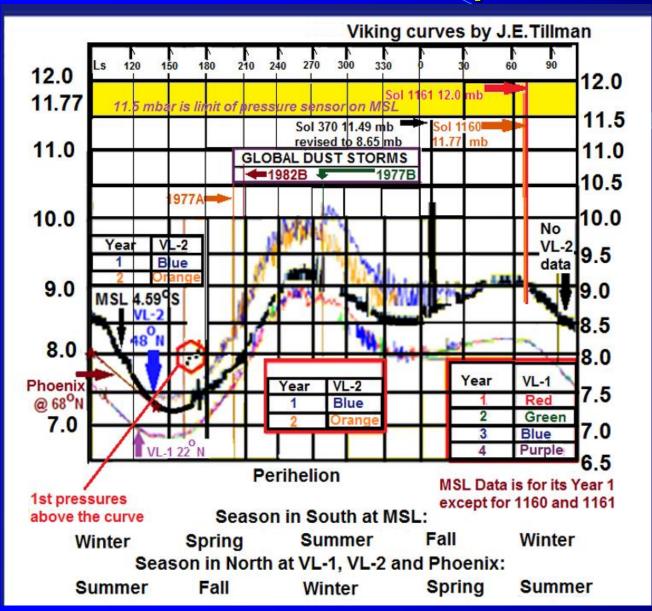


3. STRATUS CLOUDS ON MARS AT ALTITUDE OF 16,000 METERS ABOVE MARS PATHFINDER. PHOTO TAKEN 1 HOUR 40 MINUTES BEFORE SUNRISE ON 7/19/1997!

4. Pathfinder was 3,682 m below areoid. 16,000 m above that is 12,318 m. Table assumes stratus clouds cannot form at pressures lower than on Earth (163 mbar).

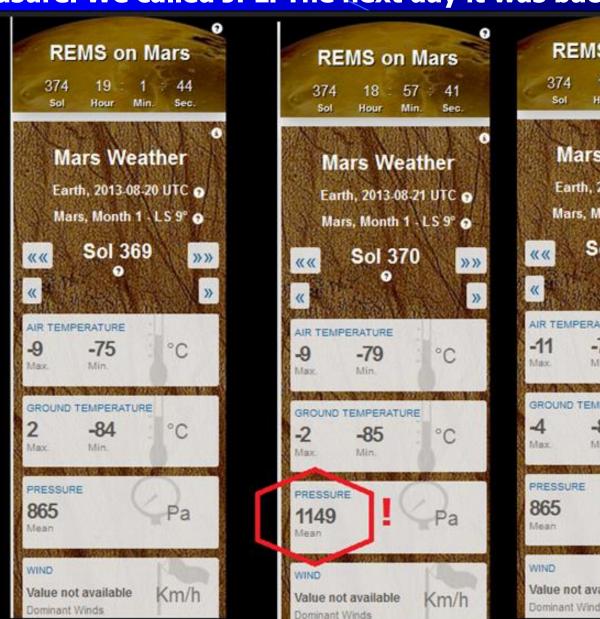
_					<u> </u>				
	A	В	С	D	E	F	G	Н	1
1	CALCULATIONS BASED ON	ENTERING ARGUMENTS SCALE HEIGHT 10.8 KM AND 163.33 mbar at 12,318 meters							
2	MARS PATHFINDER	KILOMETERS	10.8km Scale	RATIO B/C	=-EXP(D VALUE)	1/E value	-F VALUE = PRESSURE	PERCENT OF	PRESSURE IN
3	VIEW OF STRATUS CLOUDS		Height (MARS)				MULTIPLE OF	PRESSURE AT	MILLIBARS
4	1111		STEIN C				6.1 MBAR MEAN	MEAN AREOID	
5	CLOUDS 16 KM ABOVE MPF	12.318	10.8	1.140555556	-3.128505941	-0.319641394	0.319641394	31.96413939	163.3303595
6	MARS PATHFINDER (MPF)	-3.682	10.8	-0.340925926	-0.711111581	-1.40624907	1.40624907	140.624907	718.56515
7	MEAN AREOID	0	10.8	0	.1	-1	1	100	510.98
8	VALLES MARINERIS	-5.31	10.8	-0.491666667	-0.611606201	-1.635039015	1.635039015	163.5039015	835.4722361
9	HELLAS BASIN	-7.825	10.8	-0.724537037	-0.484548845	-2.063775427	2.063775427	206.3775427	1054.547968
-									

Often MSL pressures were well above the expected curve.

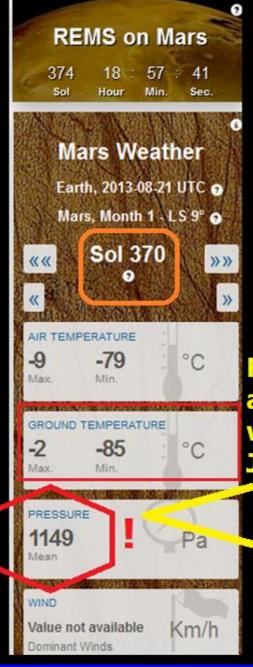


When we pointed them out to NASA, NASA dropped them back to the curve.

On Sol 369 pressure was 865 Pascals (8.65 mbar). The next day a record high of 1149 Pa was recorded - the most the sensor could measure. We called JPL. The next day it was back to 865 Pa.

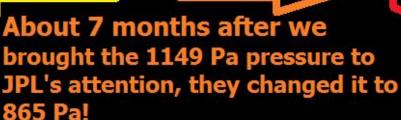


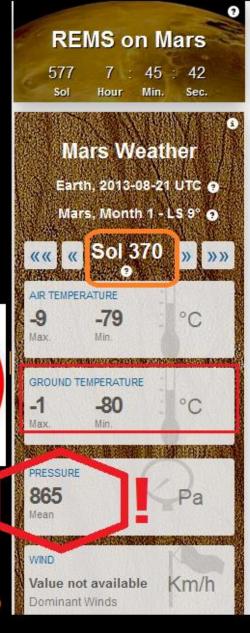


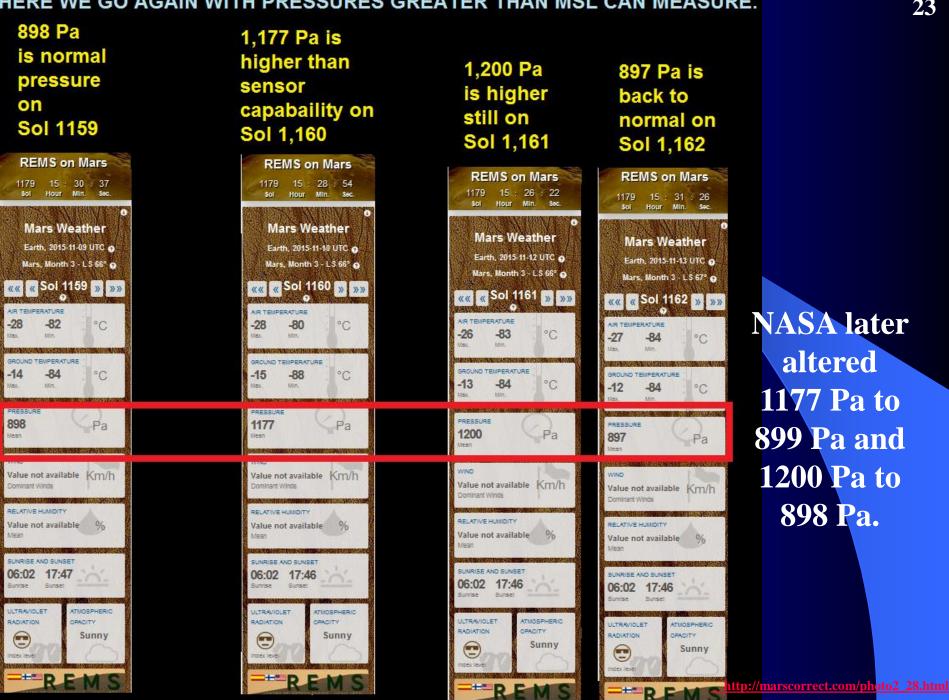


REMS Team/
NASA/JPL Critical
Data changes
After Hearing from
the Roffman Mars
Correct Team.

Pressure reported as 1149 Pa BEFORE we brought it to JPL's attention.





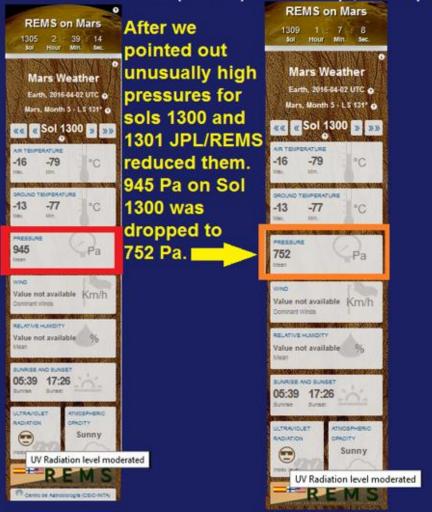


NASA later altered 1177 Pa to **899 Pa** and 1200 Pa to 898 Pa.

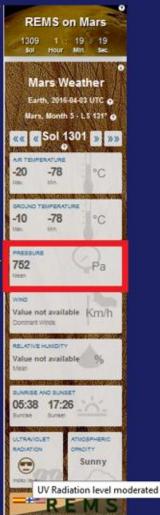
Once again we force NASA to reduce high pressures on Sols 1300 and 1301

Pressure was 753 Pa and falling on Sol 1299. It was 751 on Sol 1302. So when challenged, JPL changed

high values for Sols 1300 (945 Pa) and 1301 (1,154 Pa) to an intermediate value of 752 Pa.







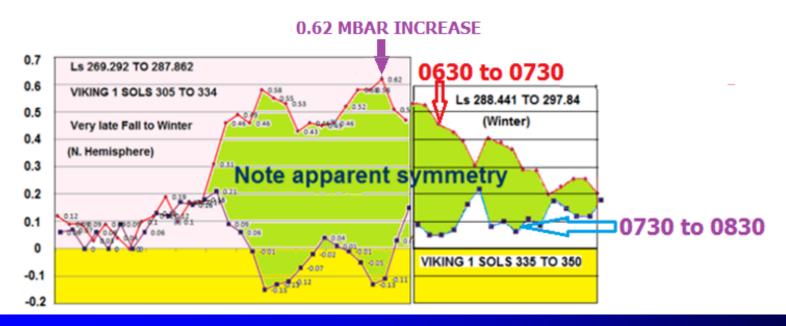
Viking pressure spikes at 6:30 to 7:30 am were evidence for internal (heater-related) processes at work. Thus they were **not** measuring outside air pressure!

VIKING 1 PRESSURE CHANGES ON ITS 305TH TO 350TH DAYS

PRESSURE CHANGE MBAR



PRESSURE CHANGE 6:30 AM TO 7:30 AM MARS TIME PRESSURE CHANGE 7:30 AM TO 8:30 AM MARS TIME



TINY DUST FILTERS HAD NO CLEANING MECHANISM

Mars is very dusty. All dust filters likely clogged immediately on landing.



DIME SURFACE
AREA = ~251.9 mm²



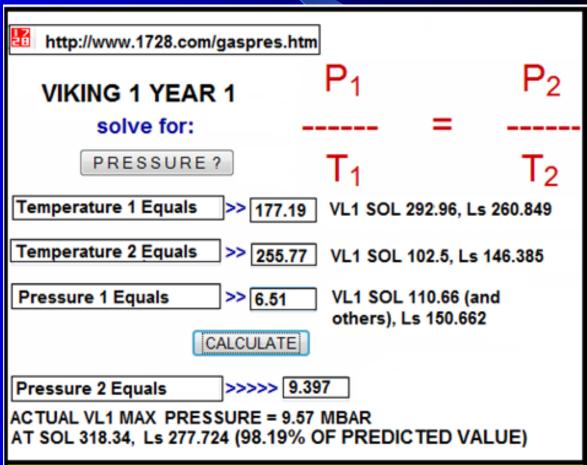
TAVIS DUST FILTER FOR VIKING = ~40 mm²
TAVIS DUST FILTER FOR PATHFINDER= ~ 3.14 mm²

VAISALA DUST FILTER FOR PHOENIX OR MSL = ~10 mm² ●

Viking Pressures & Outside Temperature

Pressure varied inversely with outside temperature. This suggests heating of the gas behind a dust clot that isolated the pressure sensor from Martian air.

Note: 177.19 K = -137.128° F 255.77 K = +0.716° F



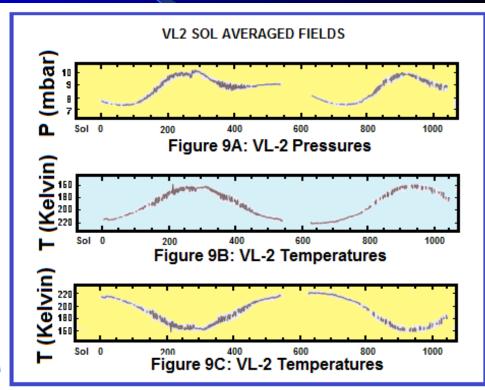
Evidence for clogged dust filters: Viking pressure data for over a Martian year

Figures 9A and 9C show that as temperature fell pressure recorded rose.

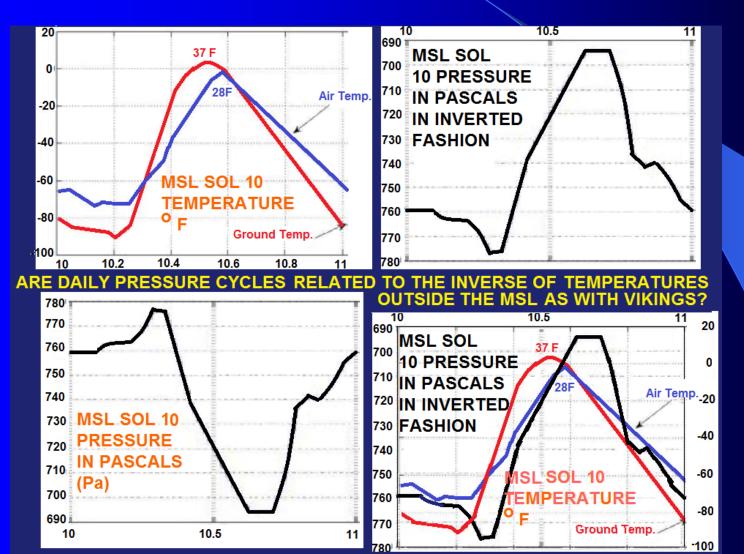
Figure 9B is 9C inverted to show quality of pressure and temperature link.

Hypothesis: Above annual trend will be matched at the hourly level when RTG heaters are on & increasing

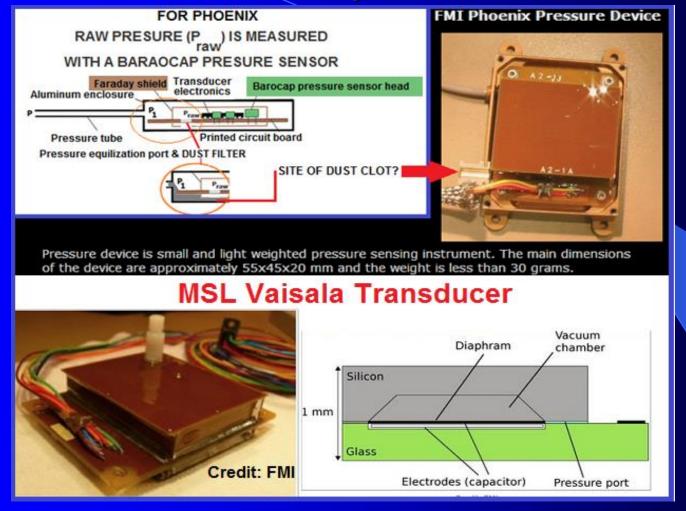
pressure behind a dust clot.



Initial MSL daily pressure also varied inversely with outside temperature. This reinforces the dust clot idea.



FMI knew it had a problem with Phoenix



In 2009 they wrote, "We should find out how the pressure tube is mounted in the spacecraft and if there are additional filters etc." FMI designed the sensor.

KENRIK KAHANPÄÄ: MAN AT THE CENTER OF PHOENIX AND MSL PRESSURE CONTROVERSY

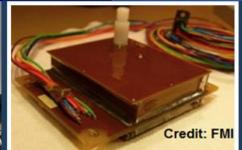
"That we at FMI did not know how our sensor was mounted in the spacecraft and how many filters there were shows that the exchange of information between NASA and the foreign subcontractors did not work optimally in this

(Kahanpää [FMI] Personal communication, December 15, 2009)

mission!"



Henrik Kahanpää and REMS- Pressure measuring device. Photo: Jouni Polkko / Finnish Meteorological Institute





FMI Phoenix Pressure Device



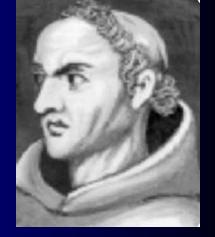
International Traffic in Arms Regulations (ITAR)

"After Phoenix landed... the actual thermal environment was worse than the expected worse case... Information on re-location of the heat source had not been provided due to ITAR restrictions." (Taylor, P.A., et al, 2009)





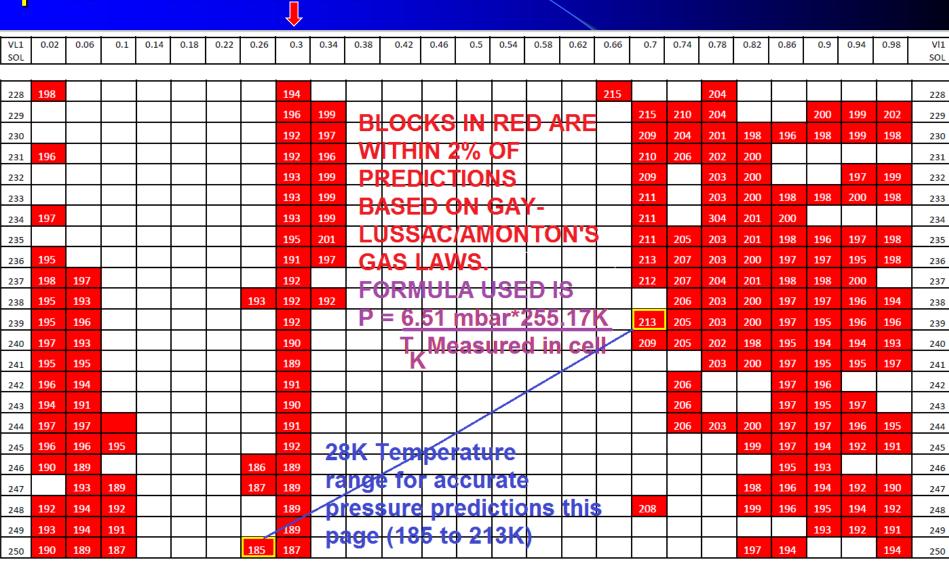
Occam's Razor

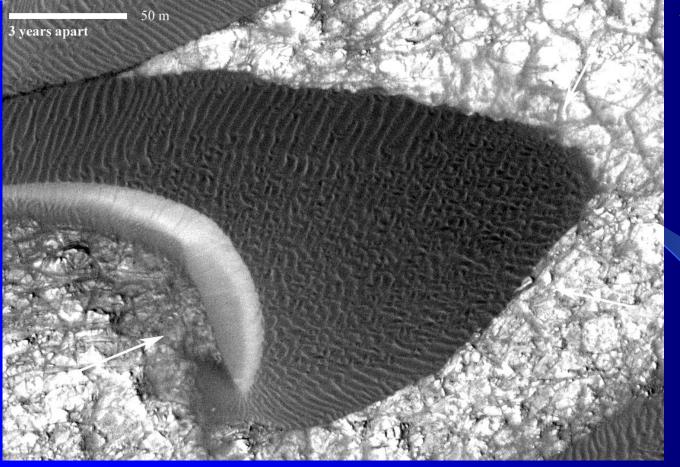


The simplest solution is usually correct.

This suggests repeatable pressure data should be believed. But, consistent pressures measured by all landers may only exist because they all had pressure sensor air access tubes clog in similar fashion (or because, as was just shown, the data has been altered).

Red boxes show pressures each day that were 34 within 2% of our predictions based a formula that presumed dust clots. 0.3 = 6:30 am to 7:30 am





Why Trash Occam?

Moving Sand Dunes on Mars.

"Mars either has more gusts of wind than we knew about before, or the winds are capable of transporting more sand."

Nathan Bridges,
Planetary scientist, Johns Hopkins University's Applied
Physics Laboratory
35

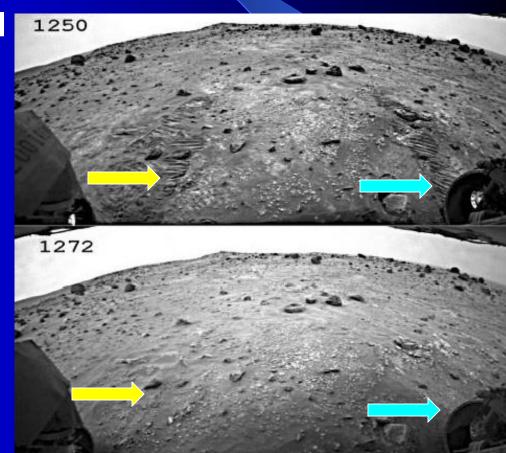


Why Trash Occam?

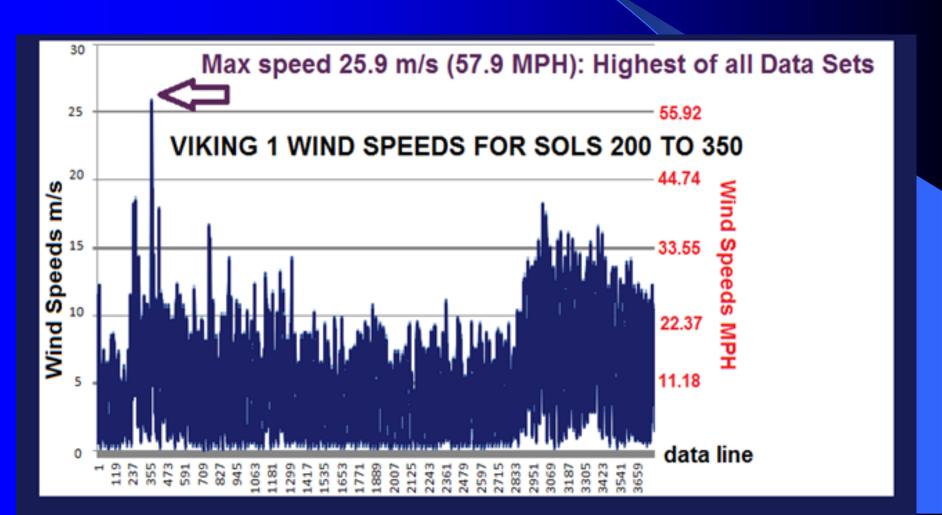
 Wind-tunnel trials show a patch of sand would take wind 80 mph to move on Mars (vs. 10 mph on Earth). No lander ever saw wind so high on Mars.

JPL: Spirit rover detected shifting sand in 2004.

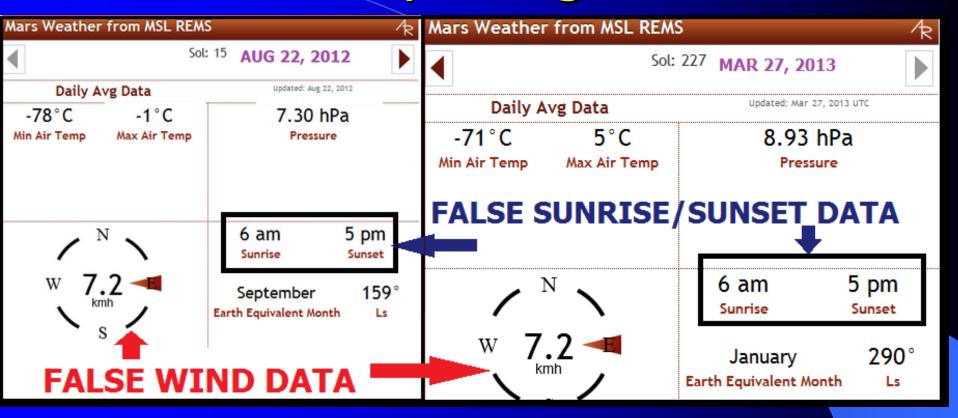
 Rovers' track marks filling in with sand.



Viking wind never reached 80 mph needed to move sand at low pressure. Highest wind? 57.9 mph. As sand does move, pressure MUST be higher.



Data Reporting Fiasco



From August 22, 2012 until April 2, 2013 ALL wind data published by REMS and Ashima Research was wrong. All sunset/sunset times were also wrong.

We told JPL that there could not be only 11 hours of daylight at MSL. David Roffman did the math. There is as much as 12 hours 19 minutes of daylight and little as 11 hours 43 minutes. NASA accepted the fix.

_									
	A	В	C	D	E	F	G	Н	-1-
1	λsun	Latitude			Day Length =	Daylight	Half Sol	difference	DAVID'S
2	(0 for spring	(phi)	δdegrees =	$H = \arccos((SIN(17) - SIN(Iw)*SIN(\delta))/(COS(Iw)*COS(\delta)))$	2*1.027491*H/360	In Hours	in Hours	Half day -	Mars
3	in northern		arcsin((sin(25.19)*sin(λsun))	10.20 10 10 10 10 10 10 10 10 10 10 10 10 10		David's		Daylight	Daylight
4	hemisphere)				e e	Calculation		(G-F)	Hours
5	(Ls)					(=E value * 24)			
6	0	-4.59	0	90.17054697	0.51471903	12.35325673	12.3299	0.0233617	12:01.4
7	150	-4.59	12.28711642	89.17267137	0.509022874	12.21654897	12.3299	-0.113346	11:53.2
8	180	-4.59	2.98768E-15	90.17054697	0.51471903	12.35325673	12.3299	0.0233617	12:01.4
9	210	-4.59	-12.28711642	91.17647243	0.520461138	12.49106731	12.3299	0.1611723	12:09.7
10	240	-4.59	-21.62923453	92.00779835	0.525206582	12.60495796	12.3299	0.275063	12:16.5
11	270	-4.59	-25.19	92.35267298	0.527175224	12.65220537	12.3299	0.3223104	12:19.3
12	300	-4.59	-21.62923453	92.00779835	0.525206582	12.60495796	12.3299	0.275063	12:16.5
13	330	-4.59	-12.28711642	91.17647243	0.520461138	12.49106731	12.3299	0.1611723	12:09.7
14	0	-4.59	0	90.17054697	0.51471903	12.35325673	12.3299	0.0233617	12:01.4
15	30	-4.59	12.28711642	89.17267137	0.509022874	12.21654897	12.3299	-0.113346	11:53.0
16	60	-4.59	21.62923453	88.35931782	0.504380021	12.10512051	12.3299	-0.2247745	11:46.5
17	90	-4.59	25.19	88.02453664	0.502468995	12.05925589	12.3299	-0.2706391	11:43.8
18	120	-4.59	21.62923453	88.35931782	0.504380021	12.10512051	12.3299	-0.2247745	11:46.5

Best estimate of the length of daylight at MSL (4.59 South on Mars)

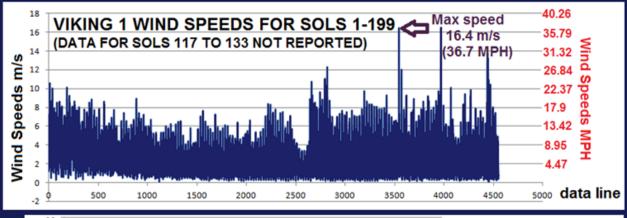
One of the REMS Booms broke on Landing. It would have been more honest to list winds as *Not Available*.

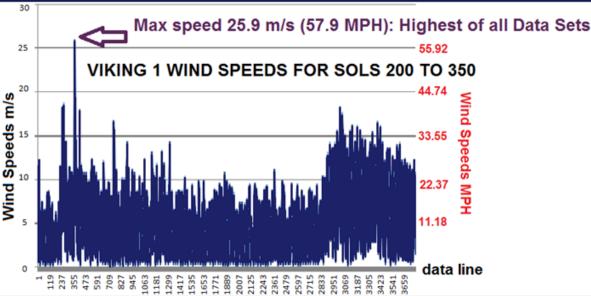


We know from the Vikings that there is an enormous amount of variation in winds.

VL-1 SOL	LS	Wind direction	Wind Speed	Wind Speed
			M/S	мрн
214.38	210.621	290	1.2	2.68
214.42	210.646	249	2.6	5.82
214.46	210.671	254	4.6	10.29
214.5	210.696	283	7.6	17.00
214.54	210.721	305	9.4	21.03
214.58	210.746	331	19.9	44.52
214.62	210.771	343	22.5	50.33
214.66	210.796	356	22.6	50.55
214.7	210.821	6	21.2	47.42
214.74	210.847	19	17.8	39.82
214.78	210.872	19	25.9	57.94
214.82	210.897	24	25.2	56.37
214.86	210.922	25	18.8	42.05
214.9	210.947	29	13.8	30.87
214.94	210.972	33	9.2	20.58
214.98	210.997	355	4.9	10.96

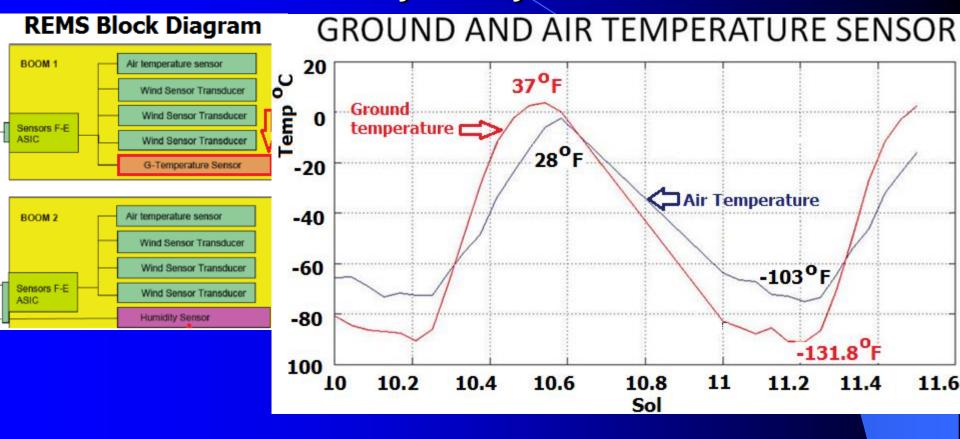
Profile of the windiest Viking day on Mars with the greatest wind gust recorded at VL-1 sol 214.78.





BOGUS GROUND TEMPERATURES?

Boom 1 broke. It alone measures ground temperature but with accuracy of only 18 Fahrenheit.



Guy Webster (JPL) claims: "Damage on landing did not include the Infrared sensor that provides ground-temp information." But an accuracy of 18 degrees Fahrenheit is almost worthless.

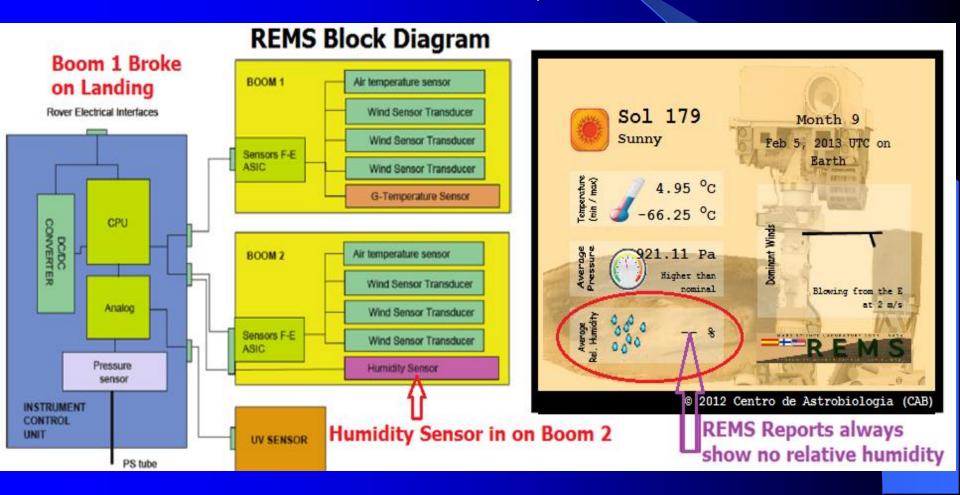
But the weak ground temperature answer did not address altered air temperatures. Who is killing warm days on Mars, and why?

Α	В	С	D	Α	В	С	D
SOL	ORIGINAL MAX AIR TEMP TEMP ≥ 0°C REDUCED TO TEMP ≤ 0°C	NEW MAX AIR TEMP °C	CHANGE °C	SOL	ORIGINAL MAX AIR TEMP TEMP ≥ 0°C REDUCED TO TEMP ≤ 0°C	NEW MAX AIR TEMP C	CHANGE °C
23	0	-16	16	49	4	-10	14
26	2	-14	16	50	0	-10	10
27	-1	-15	14	51	3	-7	10
31	-3	-23	20	52	7	-7	14
38	-3	-13	10	53	5	-5	10
40	2	-12	14	54	5	-9	14
41	2	-12	14	102	8	-3	11
42	5	-7	12	112	5	-8	13
43	3	-12	15	116	5	-6	11
44	4	-10	14	118	4.53	-6	10.53
45	3	-9	12	123	2.1	-10	12.1
46	4	-12	16	124	5.4	-5	10.4
47	6	-9	1 5	179	5	-7	12

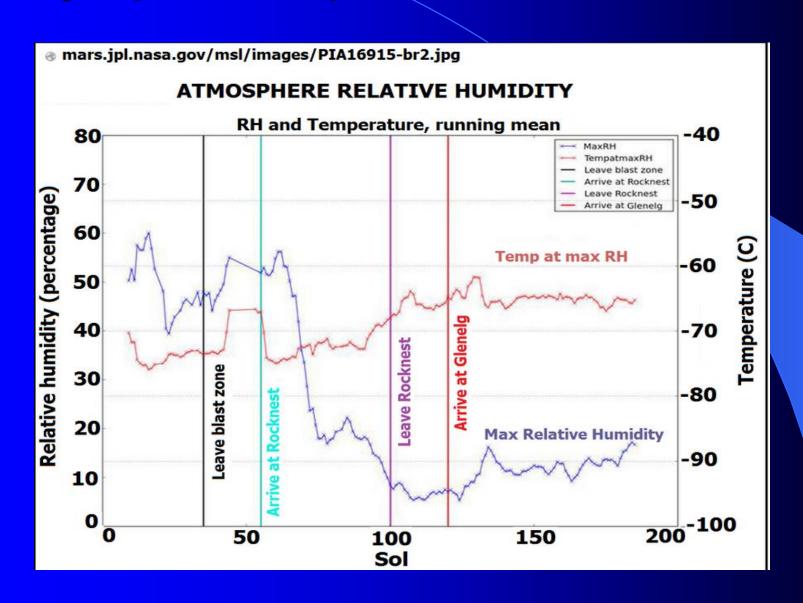
REMS Relative Humidity Sensor

Only Boom 1 broke on Landing. Why no relative humidity reported from Boom 2? Calibration problems with the Thermal and Electrical Conductivity Probe?

G.M. Martinez et al., 2013



The REMS Team leaves Relative Humidity off daily reports, but published this on 6/27/2013:



REMS Asserts Huge Changes in Relative Humidity Over Very Short Distances

mars.jpl.nasa.gov/msl/images/MSL_TraverseMap_Sol0313_fcalef-br2.jpg

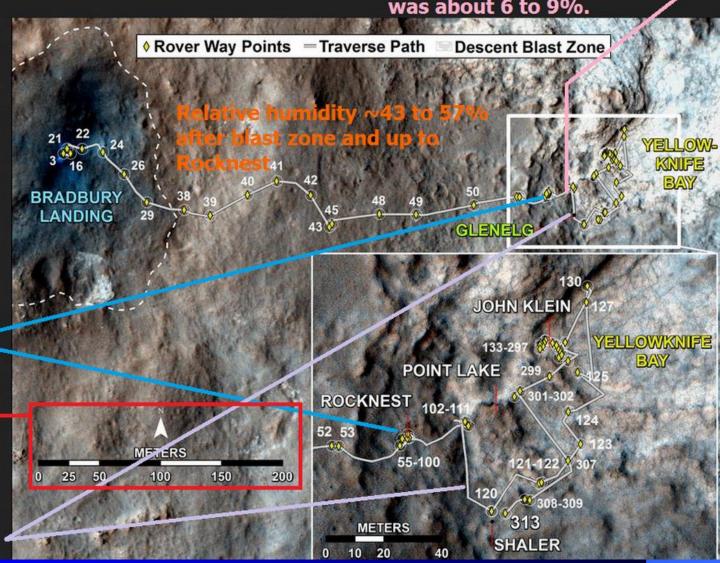
Between Rocknest & Glenelg RH was about 6 to 9%.

Relative humidity = ~40 to 60% in landing blast zone.

At Rocknest relative humidity drops from about 58% to ~9 % over 50 sols.

Note distance scale. Changes in RH over ~400 m.

At Glenelg RH varies from about 6% to 17%.



If temperature and pressure measurements are wrong, as shown earlier, RELATIVE HUMIDITY READINGS WILL BE WRONG TOO.



• September 26, 2013 JPL announces there are 2 pints of water in every cubic foot of soil. If pressure was as low as NASA claims, water should have evaporated out of the soil, not absorbed it from the atmosphere.

(Note: NASA claims about perchlorates and deliquescence are discussed at slides 5 to 9 and at

http://marscorrect.com/photo5 9.html).

Early Problems with MSL Weather Reports

- 1. Sunrise/Sunset times wrong until May, 2013.
- 2. Constant winds wrong.
- 3. Relative Humidity always missing.
- 4. Day numbering wrong & temperatures revised.
- Early wrong month labeling = wrong place in orbit & wrong distance from the sun.
- 6. Exact ground temperatures issued when accuracy (18° F) was worthless.
- 7. Wrong pressure units used or pressures off the curve from 2012 to 2015.

Data Reporting Fiasco REMS Reported 6 Days of Earth-like Pressure

PRESSURE REPORTED INCREASED 100 FOLD

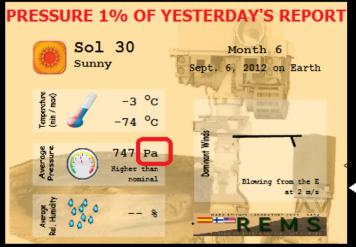


DID MSL LAND AT GALE ON MARS OR VAIL IN COLORADO?

Pressure like Earth at 8,192.6 feet above sea level.



100 Pa = 1 hPa = 1 Mbar.
Sol 29 was first given as 747 hPa, while Sol 30 was given as 747 Pa (7.47 hPa) after questions by us and others



DAILY WEATHER NEVER
INCLUDES RELATIVE HUMIDITY

ALL WINDS (2 M/S) REPORTED

WRONG UNTIL MAY 2013

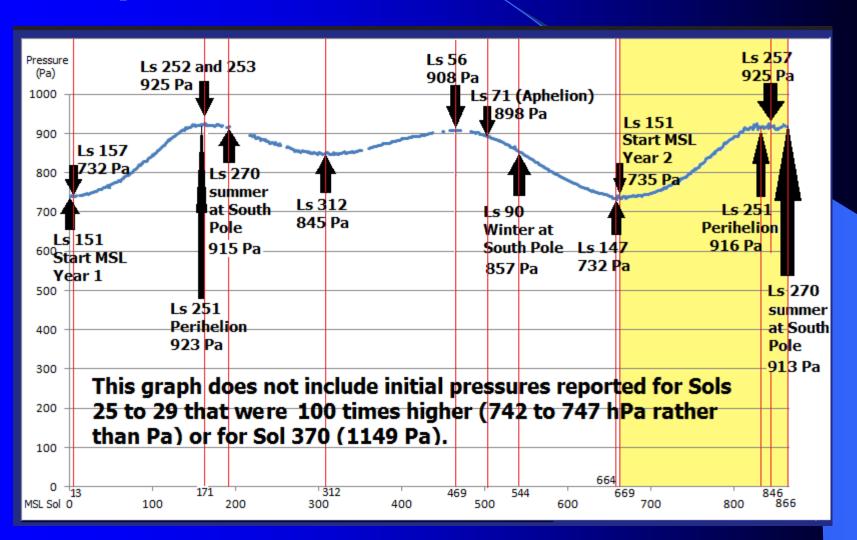


Why Trash Occam?

- Weather doesn't match low pressure values
 - Running water
 - Dust Devils
 - Dust Storms
 - Eye walls on huge storms over Arsia Mons
 - Stratus clouds at 16 km.
 - Too much sand movement for low pressure
 - Light in the sky 1 hr 40 min before sunrise and after sunset. Just due to high dust, or a denser atmosphere?

Why Trash Occam?

 Viking pressures suspicious due to exact repeat over 4 yrs. Ditto for MSL shown below.



WHY TRASH OCCUM? MRO AEROBRAKING

"At some points in the atmosphere, we saw a difference in the atmospheric density ... 30% higher than the model, but ...

around the south pole it was 350% off the model."

Han You,
Navigation Team Chief for
Mars Reconnaissance Orbiter (MRO).



Why Trash Occam?



Mars Express spacecraft reveals Mars air is supersaturated with water vapor (29 Sep 2011).

10 to 100 times more H₂O than expected at 20 to 50 km. Partial pressures imply denser air too.

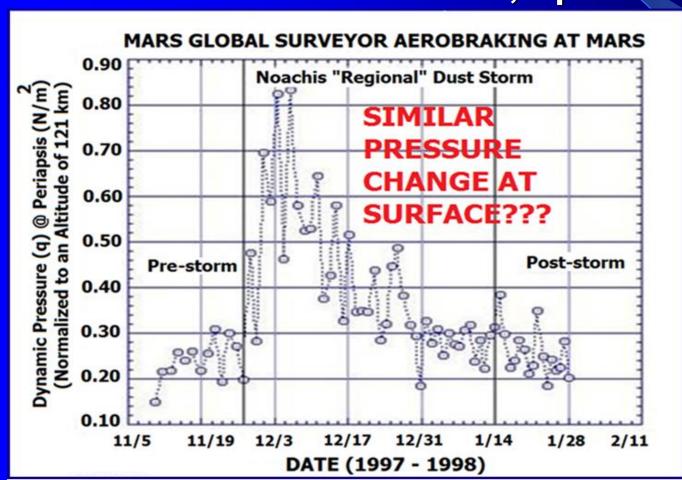
Since then running water has been found at many sites on Mars on 28 Sep 2015.



WHY TRASH OCCAM?

MGS Dynamic Pressure Spike @ 75 mile altitude Due to Dust Storms.

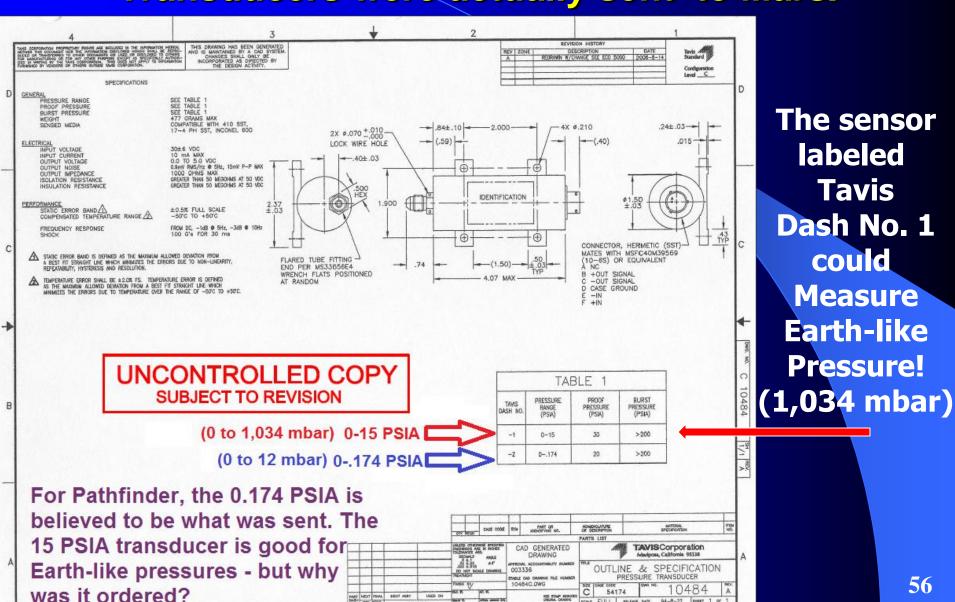
Pressure Doubles in 48 Hours, Up 5.6 Fold in 4 Weeks.



Why Trash Occam?

- Pathfinder wind sensors went uncalibrated.
 - True again with MSL.
- Phoenix & MSL pressure sensor design problems. FMI delivered the MSL pressure sensor to NASA in 2008 (before ITAR problems could be fixed)! http://space.fmi.fi/solar.htm
- No pressure sensor sent to Mars could measure pressure that would explain the weather seen.
- No way to change Viking, MPF, Phoenix & MSL dust filters that could clog.

There is an issue with which Tavis Pressure Transducers were actually sent to Mars.



SCHE FULL SELECT DATE

94-8-22 | SHEET 1 OF 1

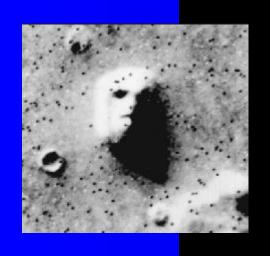
SAME NEXT FRAL MEXT ASET DASS GET ALCO APPLIE

3

Are JPL errors mistakes; or is NASA putting off manned missions to Mars to hide the truth about Cydonia, where the famous "face" was clearly seen by a Viking orbiter in 1976, but not later?

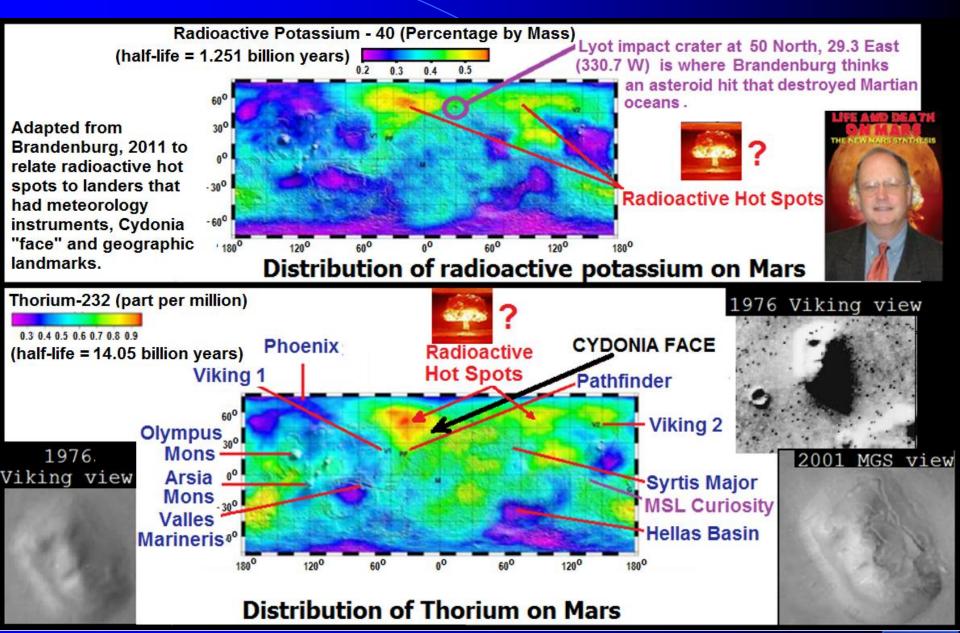
Highest-Resolution View of "Face on Mars"

MGS MOC Release No. MOC2-283, 24 May 2001





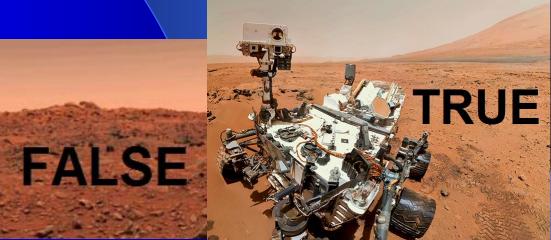
Do radioactive sites on Mars = Disinformation?



Why did NASA Administrator James Fletcher order the alteration of Martian sky color in 1976?

- Every picture of Mars sky color was wrong for 36 years after his order until MSL in August 2012.
- He kept our astronauts in low orbit to this day.





NASA MONITORS ROFFMAN MARS RESEARCH CONSTANTLY (Below: Partial list IP addresses 5 to 30 May 2016)

tara da la companya			
128.219.49.13	AS50 Oak Ridge National Laboratory 5/5/2016	http://arkcode.com/photo4_10. html	Mars Base
64.233.172.xxx	Ames AS15169 Google Inc. 5/6/2016	http://marscorrect.com/photo4 5.html	Vaisala sensors used on Phoenix and MSL
66.102.x.xx4	Ames AS15169 Google Inc. 5/10/2016	http://marscorrect.com/photo2. html	Report 2.6 to 4.1
130.206.92.101	Instituto Nacional De Tecnica Aeroespacial (Spanish Space Agency 5/11/2016	http://davidaroffman.com/photo 2 34.html	High and low temperatures vs. daylight hours
66.102.6.xxx	Ames AS15169 Google Inc. 5/12/2016	http://marscorrect.com/photo5 1.html	Wind booms and disinformation
130.206.92.101	Instituto Nacional De Tecnica Aeroespacial (Spanish Space Agency) 5/13/2016	http://davidaroffman.com/photo 2 34.html	High and low temperatures vs. daylight hours
66.102.6.xxx	Ames AS15169 Google Inc. 5/14/2016	http://davidaroffman.com/photo 4 9.html	Desai's challenge on atmosphric models
66.102.9.xxx	Ames AS15169 Google Inc. 5/16/2016	http://davidaroffman.com/custo m3 35.html	Viking 1 and Viking 2 pressure and temperature changes (time bins 0.26 to 0.3 and 0.3 to 0.34)
131.176.243.12	AS 288 European Space Agency (ESA) 5/18/2016	http://davidaroffman.com/rich_t ext_9.html	•
66.102.2.xxx	Ames AS15169 Google Inc. 5/24/2016	http://davidaroffman.com/custo m3_50.html	Relative humidity
66.102.2.xxx	Ames AS15169 Google Inc. 5/27/2016	http://davidaroffman.com/photo 2_7.html	Mars MAVEN FOLLOW YOUR
130.206.92.100	Instituto Nacional De Tecnica Aeroespacial (Spanish Space Agency) 5/30/2016	http://davidaroffman.com/cust om3 13.html	Chapt Charac Capac

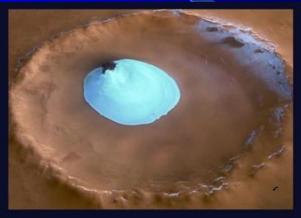
SO DOES THE KREMLIN - Here is a partial list of Russian IP addresses for 12-29 May 2016. They wouldn't bother if we are wrong.

12 25 Hay 20101 .		in the are throng.	
193.232.27.101	5/12/2016 05:23:56 MST7MDT IP ROSNIIROS Russan Institute for Public Networks AS3218 Space Research Institute of Russian Academy of Science	http://marscorrect.com/photo5.html	Annex G of Report - Tavid Sensor Suspicions
176.195.117.205	5/12/2016 Kremlin AS12714 Net By Net Holding LLC	http://davidaroffman.com/photo2 16 .html	Organic chemicals found on Mars
176.77.71.67	5/12/2016 Kremlin AS12714 Net By C	http://davidaroffman.com/photo4 14 .html	MSL initial analysis shows another clogged filter
109.252.52.23	lin AS25513 Moscow network	http://davidaroffman.com/photo4_24 .html	Dust storm nonsense
176.195.102.34	lin AS12714 Net By	http://davidaroffman.com/photo4 14 .html	MSL initial analysis shows another clogged filter
176.193.97.217	lin AS12714 Net By Net Holding LLC	http://davidaroffman.com/custom3_1.html	Frontiers in Propulsion Science Home
46.242.30.103	5/28/2016 Kremlin AS42610 PJSC Rostelecom	http://davidaroffman.com/custom3_20.html	Extracting energy from the Quantum Vacuum
5.228.17.50	5/29/2016 Kremlin AS42610 PJSC Rostelecom	http://davidaroffman.com/photo2 4.	Proof Viking Sensors failed
176.77.8.23	5/29/2016 Kremlin AS12714 Net By Net Holding LLC	http://davidaroffman.com/photo4_9.html	Parachutes and EDL
109.173.59.148	5/29/2016 Kremlin AS42610 PJSC Rostelecom	http://davidaroffman.com/custom3_14.html	Inertial Mass from Stochastic Electrodynamcs
95.221.243.165	5/29/2016 Kremlin AS12714 Net By Net Holding LLC	http://davidaroffman.com/photo4 9. html	Parachutes and EDL
	5/29/2016 Kremlin Beeline AS8402 OJSC Vimpelcom	http://davidaroffman.com/photo2 4. html	Proof Viking Sensors failed

The Cydonia face is an issue, the nuclear 62 past is questionable, but evidence for much higher pressure and sloppy handling of Mars weather data is irrefutable.



CRATER LAKE, OREGON (Maximum diameter = 9.7 km, Maximum depth = 594 meters, average height of rim above lake = 305 meters



VASTITAS BOREALIS, MARS (Maximum width = 35 km)Imaged centered at 70.1° North latitude, 103.210 East longitude

Mars is more like Earth than we have been told. **Our latest Basic Report is at**

http://marscorrect.com/2%20SEPTEMBER%202016%20Mars%20C orrect%20Basic%20Report.pdf