MARS CORRECT: CRITIQUE OF ALL NASA MARTIAN WEATHER DATA



By Barry S. Roffman, Lieutenant, USCG-Retired January 29, 2015



Why go to or care about Mars?

Many think life started on Mars, came here via meteorites



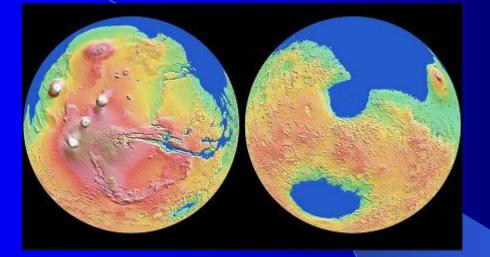


- An asteroid or comet probably wiped out dinosaurs here.
- ■The last asteroid near miss was January 26, 2015 (diameter 1,800 feet).
- ■We have all our survival "eggs" in 1 basket (Earth).
- ■Martian land area = Earth's, + it has natural resources. We may need it for a future home.

Why go to or care about Mars?

Mars once had an ocean, and likely life. It may still have life (lower forms likely, past higher forms

possible).



- The key to our place in the universe may be on Mars.
- Mars provides science/career goals to make the future exciting to today's youth.

Air pressure is central to establishing a human presence there. Accepted average pressure 6.1 Mbar at Mars areoid

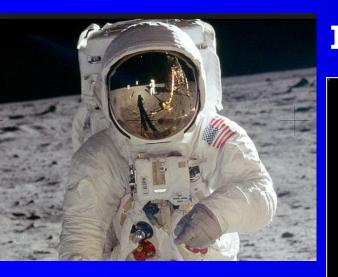
Areoid is Mars equivalent of Sea Level.

Average Earth sea level pressure =

1,013.25 Mbar.

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

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.





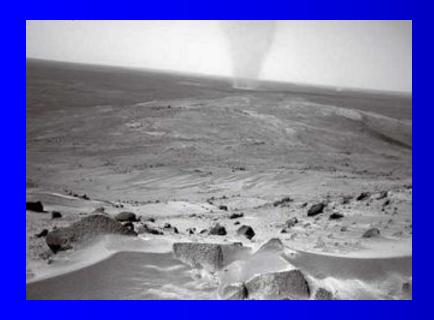
Sky color after order to alter color monitors by NASA Administrator Dr. James Fletcher.

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



Initial Cause to Question Accepted Pressure

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



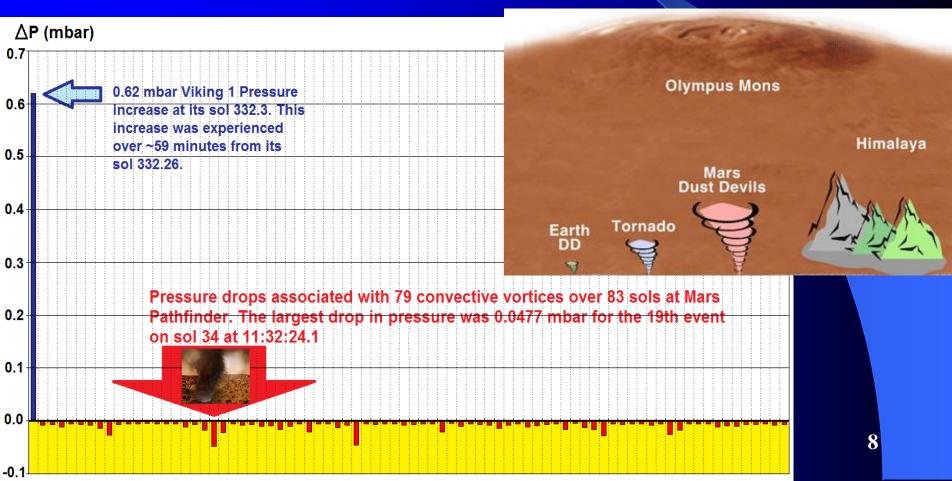


Similar dust particle size (a thousandth of a millimeter). But at 6.1 mbar pressure, an impossible 1,118 MPH wind is required to lift dust.

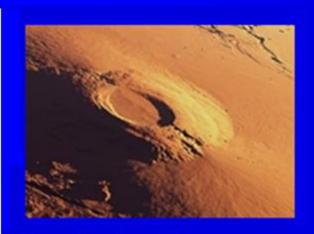


DUST DEVILS ARE THE MOST OBVIOUS WEATHER ANOMALY

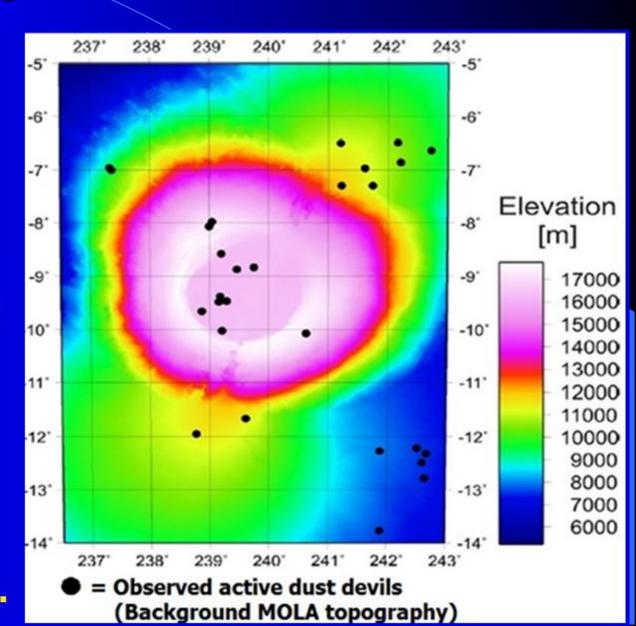
With so little air on Mars, how can there be enough change in pressure to form them at all?



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.



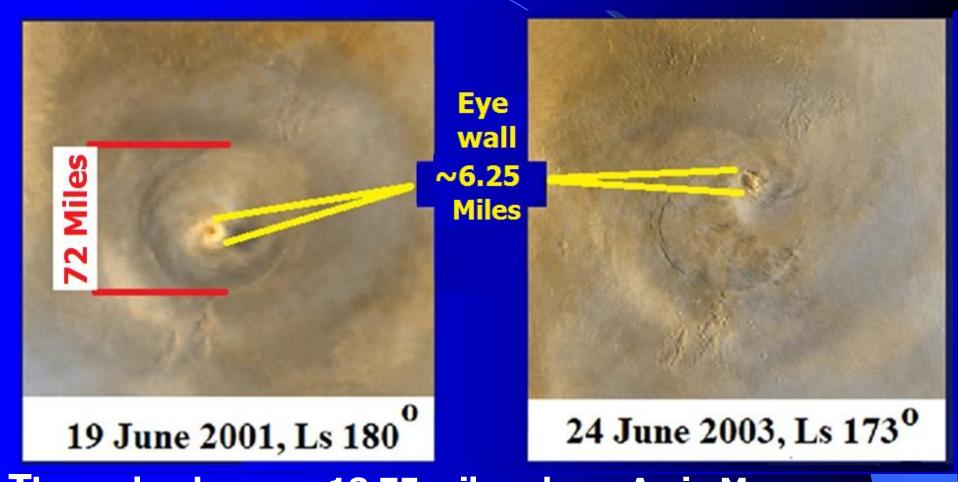
Pressure measured on MSL was at least 9.25 mbar.
 That + 6.6 mbar = 15.85 mbar. MSL can't even measure over 11.5 mbar.

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.

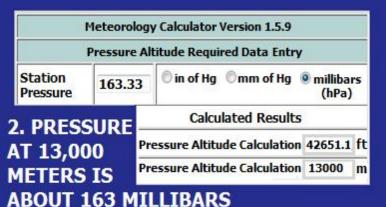


These clouds go up 18.75 miles above Arsia Mons. Believe NASA, and pressure there is only ~.07 Mbar — too low to support such weather.

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.





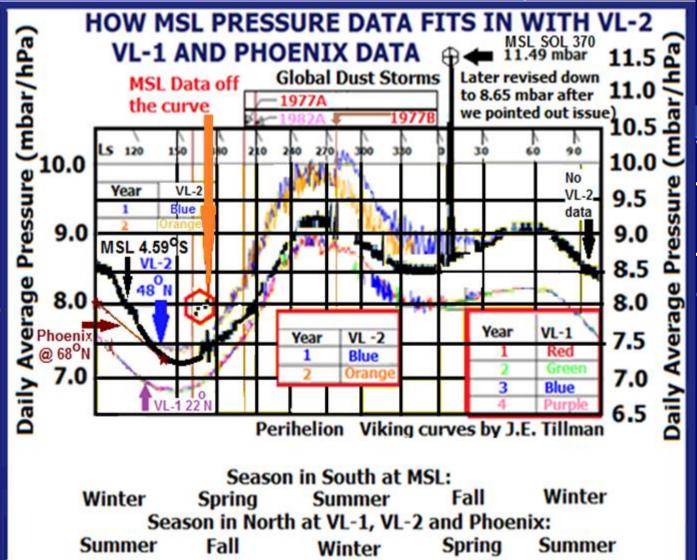


3. STRATUS CLOUDS ON MARS AT ALTITUDE OF 16,000 METERS ABOVE MARS PATHFINDER. PHOTO TAKEN 1 HOUR 40 MINUTES BEFORE SUNRISE ON 7/19/1997!

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).

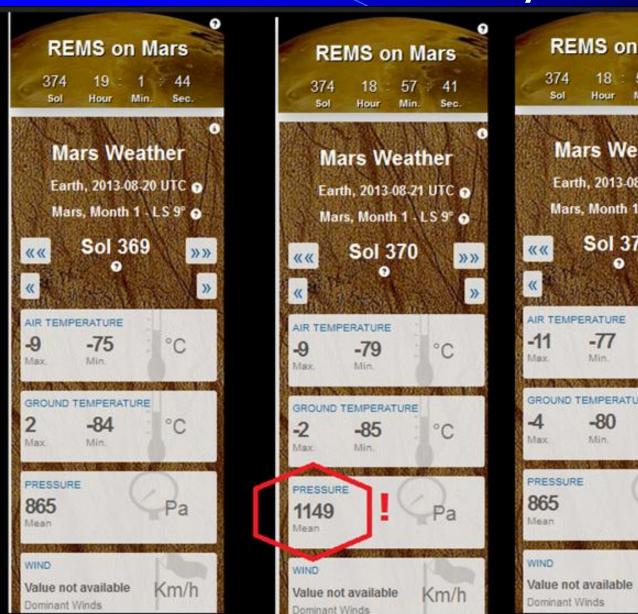
| | A | В | С | D | E | F | G | Н | 1 |
|---|------------------------|--|---------------|--------------|----------------|--------------|---------------------|-------------|-------------|
| 1 | CALCULATIONS BASED ON | ENTERING ARGUMENTS SCALE HEIGHT 10.8 KM AND 163.33 mbar at 12,318 meters | | | | | | | |
| 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 | | | | | | 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 | -41 | 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 in 2012 and 2013 MSL pressures were well above the expected curve.

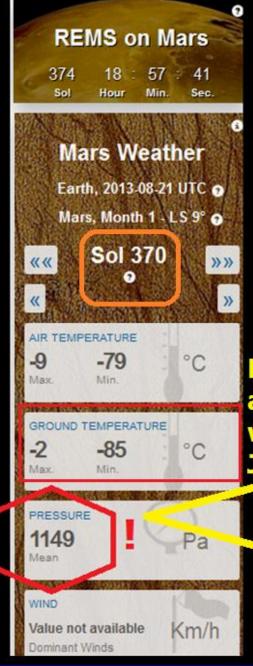


When we pointed them out to NASA, NASA dropped them back to the curve.

Example: On Sol 369 pressure was 865 Pascals. The next day a record high of 1149 Pa was recorded - the most the sensor could measure. I called JPL about it. The next day it was back to 865 Pa.





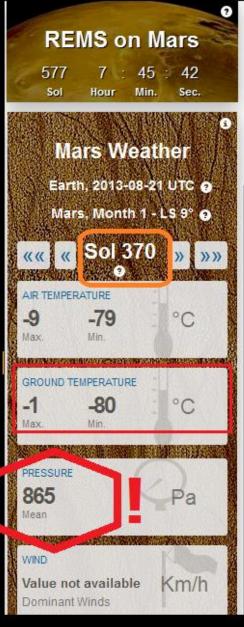


REMS Team/
NASA/JPL Critical
Data changes
After Hearing from
the Roffman Mars
Correct Team.

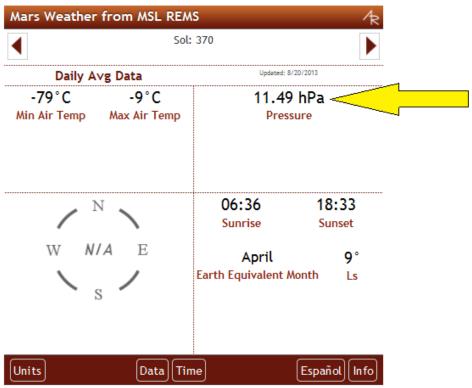
Pressure reported as 1149 Pa BEFORE we brought it to JPL's attention.



About 7 months after we brought the 1149 Pa pressure to JPL's attention, they changed it to 865 Pa!







While the REMS Team/JPL changed 1149 Pa (11.49 hPa/mbar) to 865 Pa (8.65 hPa/mbar) to cover up the significant pegging out at maximum measurable pressure on Sol 370, as of 1/23/2015 Ashima Research still shows the original data.

Printscreen captured at 1:02 pm on 1/23/2015



1:02 PM

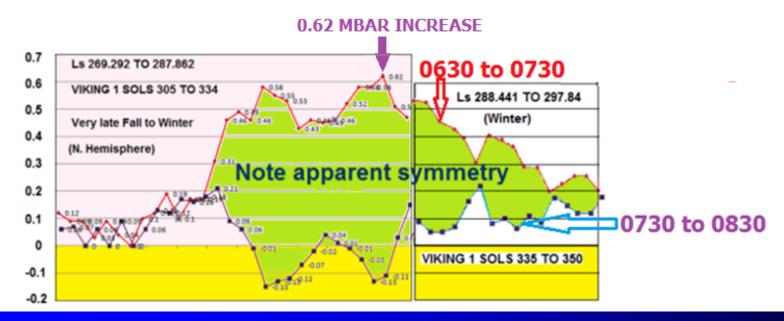




Viking pressure spikes at 6:30 to 7:30 am were evidence for internal (heater-related) processes at work. This means they were not measuring outside air pressure!

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

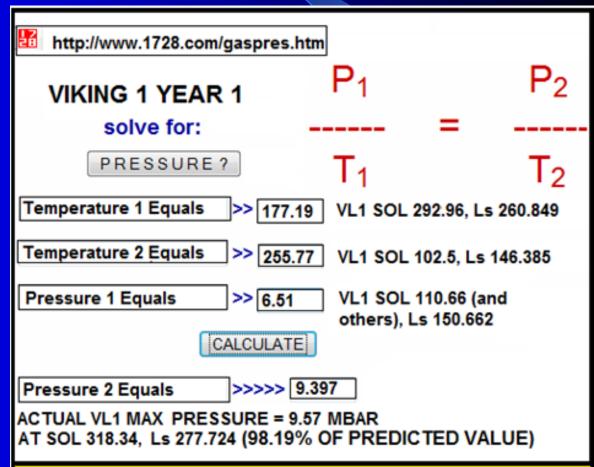
PRESSURE CHANGE MBAR PRESSURE CHANGE 6:30 AM TO 7:30 AM MARS TIME PRESSURE CHANGE 7:30 AM TO 8:30 AM MARS TIME



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



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 ●

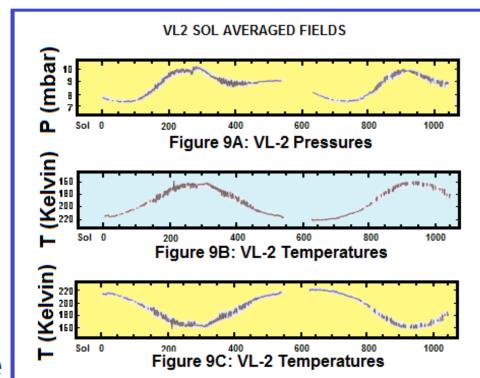
Evidence for clogged dust filters: Viking pressure data for over a Martian year

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

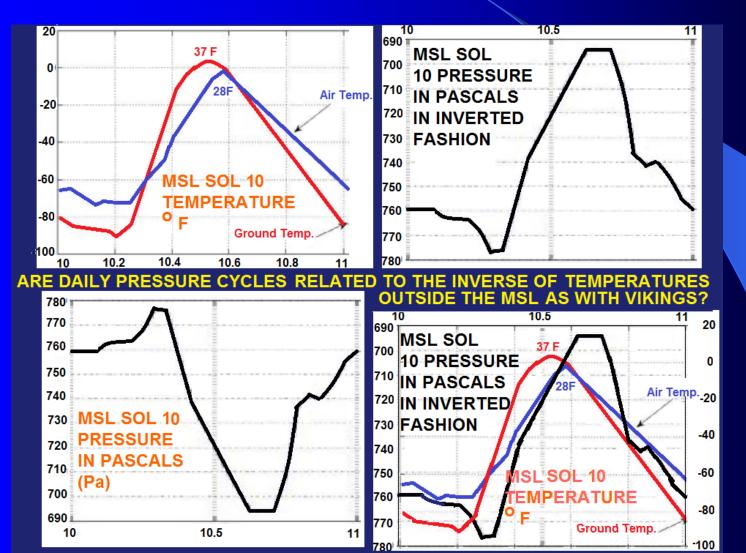
Figure 9B is 9C inverted to show quality of pressure and temperature link.

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.



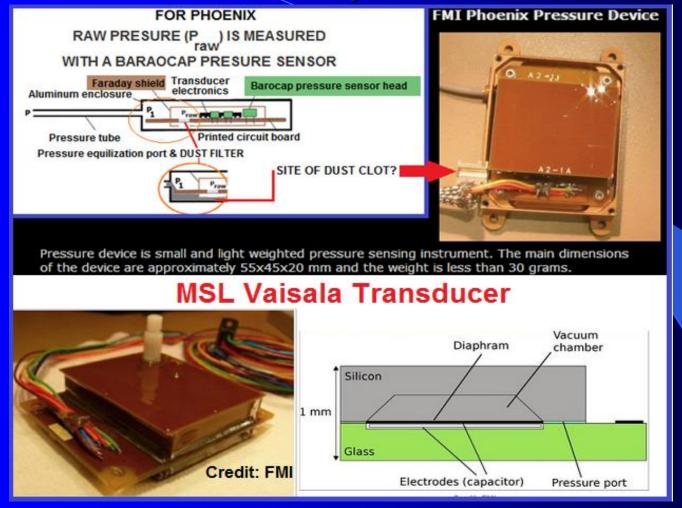
Occam's Razor



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).

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

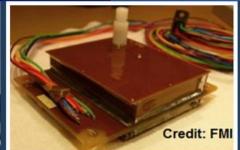
"That we at FMI did not know how our sensor was mounted in the spacecraft and how many filters there were shows that the exchange of information between NASA and the foreign subcontractors did not work optimally in this

(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



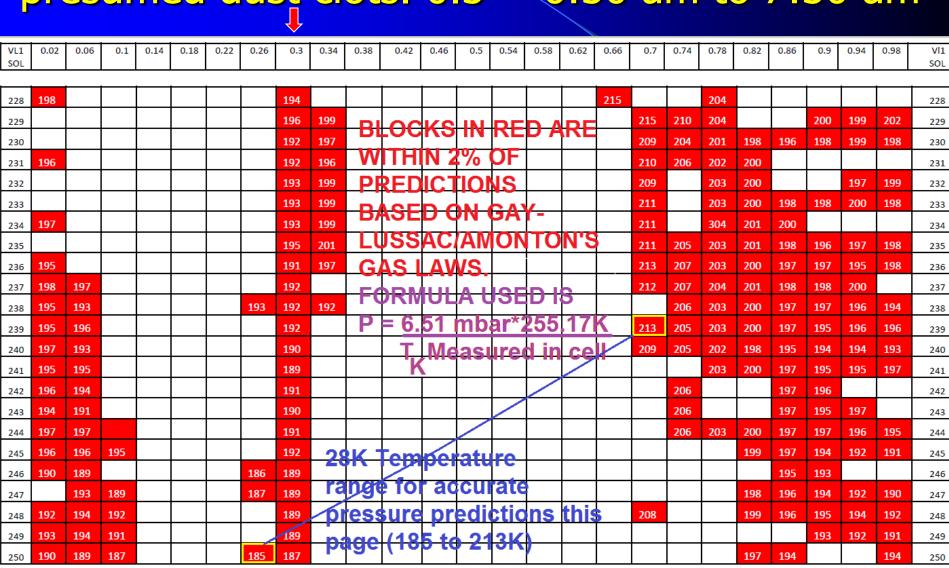
International Traffic in Arms Regulations (ITAR)

"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)





Red boxes show pressures each day that were 28 within 2% of our predictions based a formula that presumed dust clots. 0.3 = 6:30 am to 7:30 am



Why Trash Occam?



Hard to explain sand dune features, especially in Martian craters if pressure is as low as advertised.



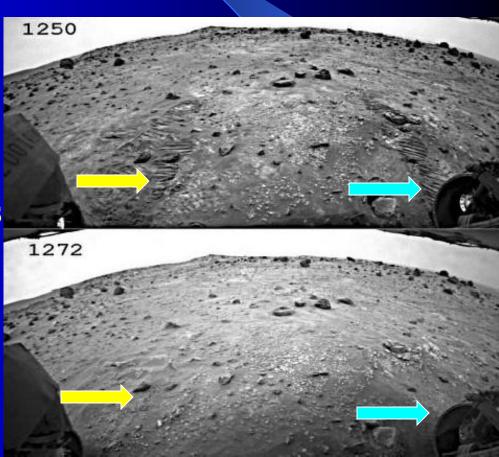
Why Trash Occam?

 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.

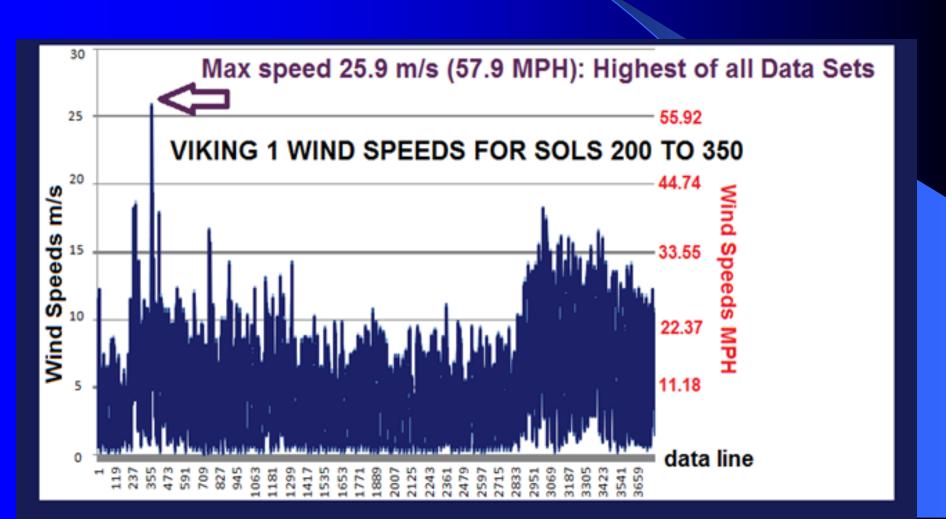
JPL: Spirit rover detected shifting sand in 2004.

 Grains of sand dotting the rovers' solar panels

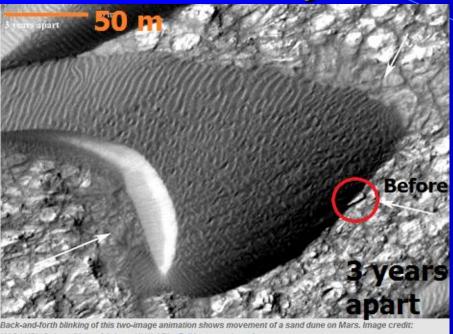
 Rovers' track marks filling in with sand.



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.



Why Trash Occam?



Back-and-forth blinking of this two-image animation shows movement of a sand dune on Mars. Image credit:

NASA/JPL-Caltech/Univ. of Arizona/JHU-APL > Full image and caption

50 m

3 years apart

After

Note covering of reclangular.

"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

http://www.nasa.gov/mission_pages/MRO/multimedia/pia15295.html

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

PRESSURE REPORTED INCREASED 100 FOLD

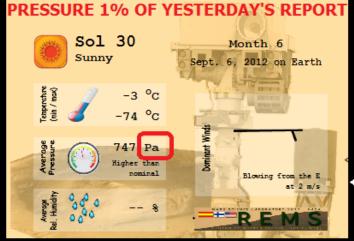


DID MSL LAND AT GALE ON MARS OR VAIL IN COLORADO?

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

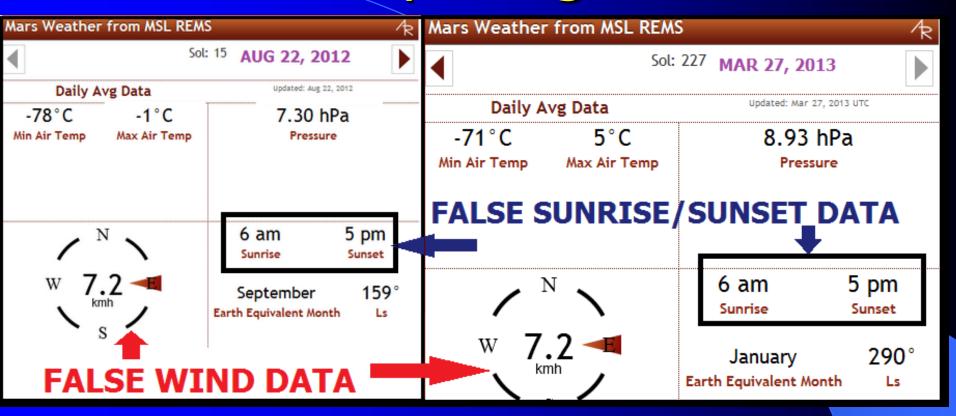


DAILY WEATHER NEVER
INCLUDES RELATIVE HUMIDITY

ALL WINDS (2 M/S) REPORTED WRONG UNTIL MAY 2013

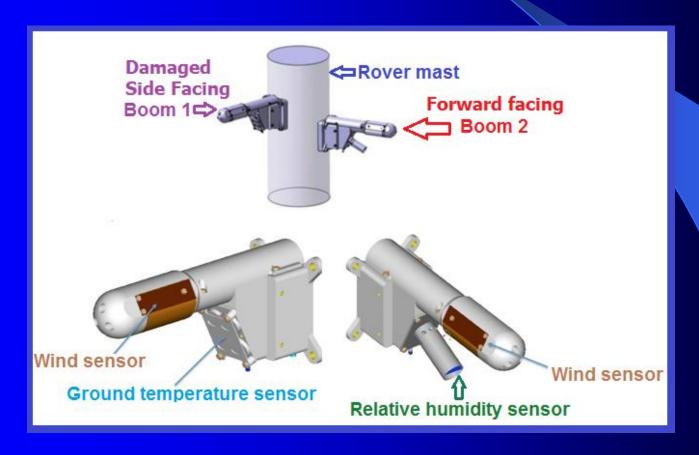


Data Reporting Fiasco



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.

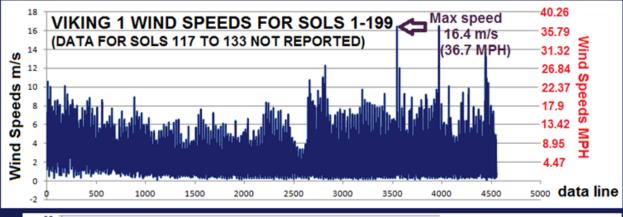
One of the REMS Booms broke on Landing. It would have been more honest to list winds as *Not Available*.

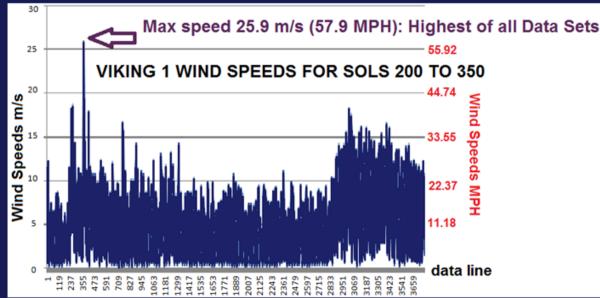


We know from the Vikings that there is an enormous amount of variation in winds.

| 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.





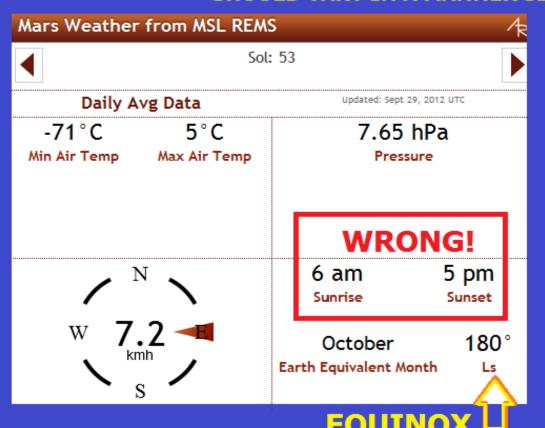
Mistakes were published that raised concerns about basic competence.

TILT OF EARTH'S AXIS = 23.44°

MARS CURIOSITY LATITUDE AT GALE CRATER
4.59° S

TILT OF MARTIAN AXIS = 25.19°

SUNRISE AND SUNSET TIMES FOR MARS TIMES SHOULD VARY IN A MANNER SIMILAR TO JAKARTA.



This is how sunrise and sunset time vary at cities with similar latitudes on Earth (12/26/2012)

JAKARTA, INDONESIA LATITUDE: 6.1333 ° S

| Date | Sunrise | Sunset | Length | Change | | |
|-----------------|---------|--------|--------|--------------------|--|--|
| FEB 16, 2013 | 05:58 | 18:12 | 12:14 | | | |
| +1 day | 05:58 | 18:12 | 12:14 | 00:00 equal length | | |
| +1 week | 05:58 | 18:10 | 12:12 | 00:02 shorter | | |
| +2 weeks | 05:58 | 18:07 | 12:09 | 00:05 shorter | | |
| +1 month | 05:56 | 17:59 | 12:03 | 00:11 shorter | | |
| +2 months | 05:53 | 17:47 | 11:54 | 00:20 shorter | | |
| +3 months | 05:56 | 17:44 | 11:48 | 00:26 shorter | | |
| +6 months | 05:55 | 17:53 | 11:58 | 00:16 shorter | | |

We notified JPL that there could not be only 11 hours of daylight at MSL. Finally 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.

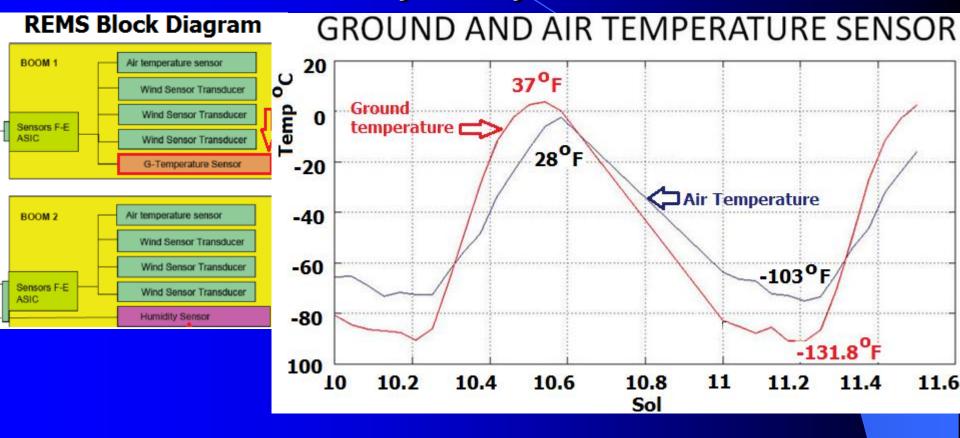
| 1 | Α | В | С | D | Е | F | G | Н | 1 |
|----|---------------|----------|-------------------------------|--|------------------|-----------------|----------|------------|----------|
| 1 | λsun | Latitude | | | Day Length = | Daylight | Half Sol | difference | DAVID'S |
| 2 | (0 for spring | (phi) | δdegrees = | $H = \arccos((SIN(17) - SIN(lw)*SIN(\delta))/(COS(lw)*COS(\delta)))$ | 2*1.027491*H/360 | In Hours | in Hours | Half day - | Mars |
| 3 | in northern | | arcsin((sin(25.19)*sin(λsun)) | | | David's | | Daylight | Daylight |
| 4 | hemisphere) | | | | | 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 |
| | | | | | | | | | |

There is never a day at MSL with only 11 hours of daylight and with 13 hours of darkness.

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

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.

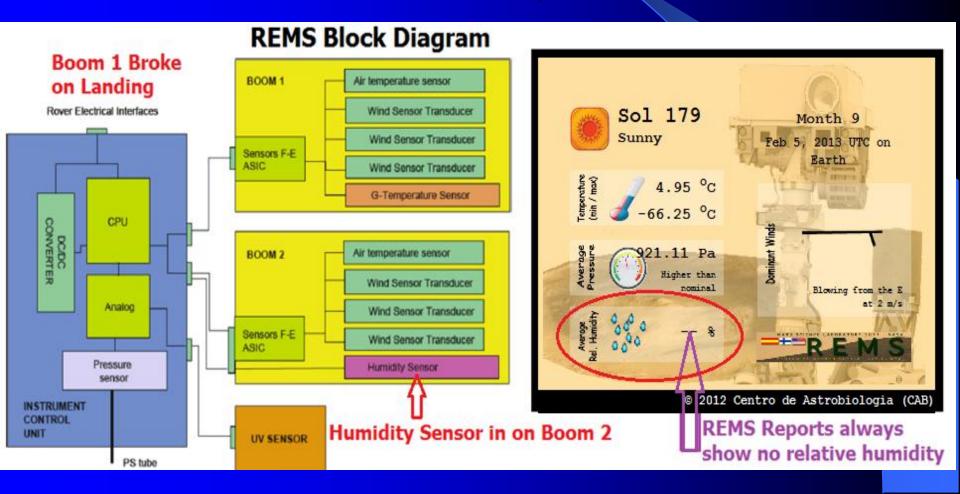
But the weak ground temperature answer did not address altered air temperatures. Who is killing warm days on Mars, and why?

| 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 | 15 | 179 | 5 | -7 | 12 |

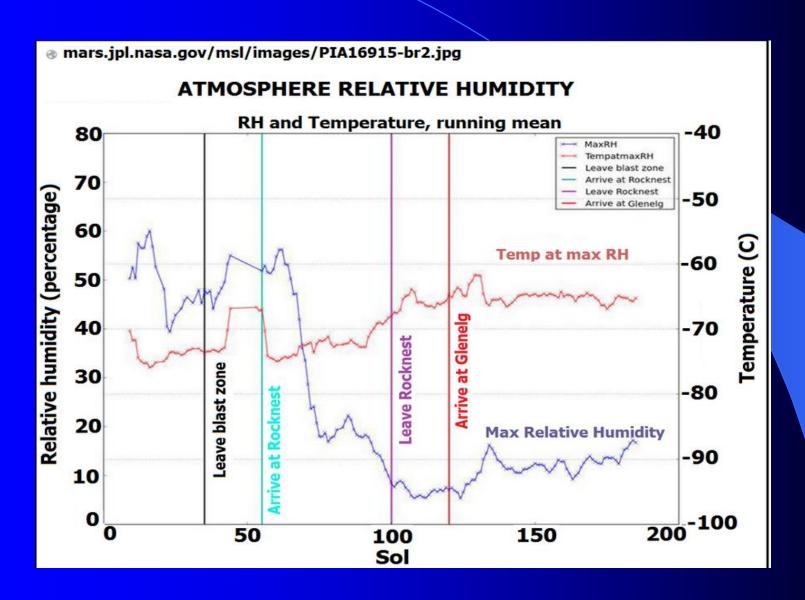
REMS Relative Humidity Sensor

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

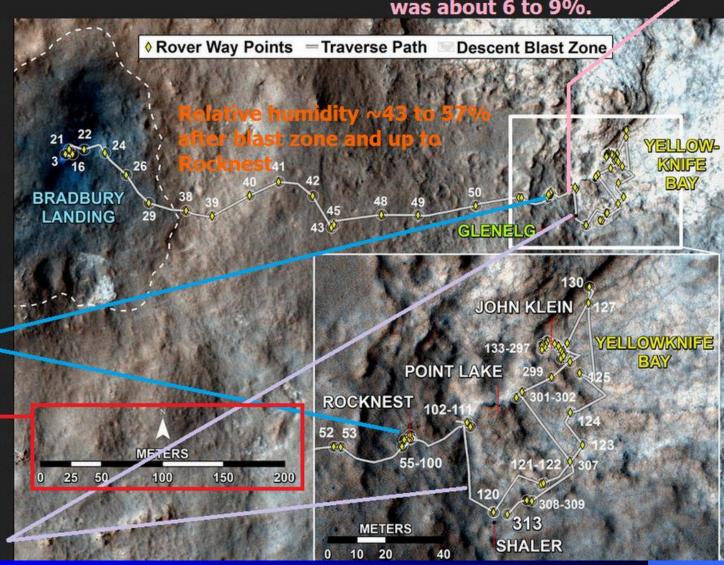
Between Rocknest & Glenelg RH was about 6 to 9%.

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

September 26, 2013: JPL Announces Martian Soil is 2% Water.



- 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.

Problems with MSL Weather Reports

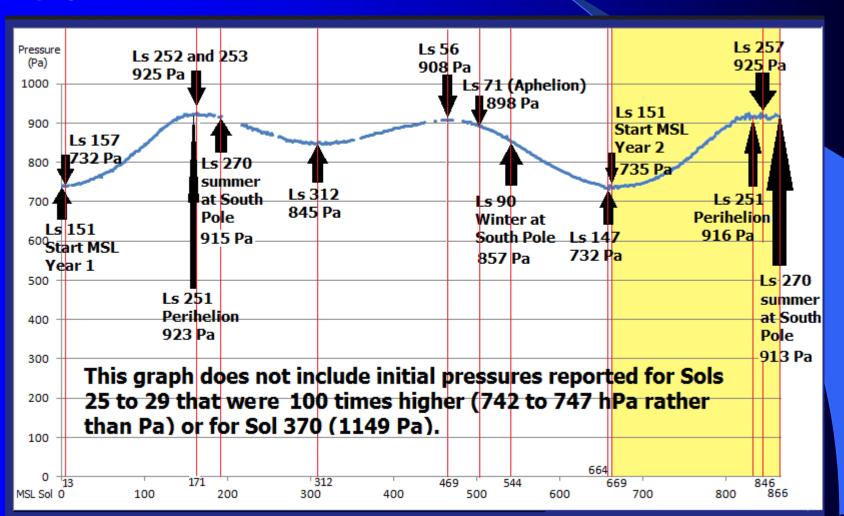
- 1. Sunrise/Sunset times until May, 2013.
- 2. Constant winds.
- 3. Relative Humidity.
- 4. Sol numbering and air temperatures.
- 5. Early wrong month labeling (3 vs. 6) = wrong place in orbit & wrong distance from the sun.
- Exact ground temperatures issued when accuracy (18 F) was worthless.
- 7. Pressure units used August 30 To Sept. 5, 2012 (confusion by REMS between hPa and Pa); and pressures off the curve in 2012 and 2013.

Why Trash Occam?

- Weather doesn't match low pressure values
 - 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 data suspicious due to exact repeat over 4 yrs. Ditto for MSL shown on the graph below.

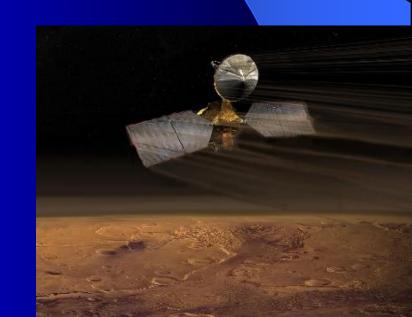


WHY TRASH OCCUM? MRO AEROBRAKING

"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?



Transport of water vapour in the Martian atmosphere.

Credit: ESA/AOES Medialab

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

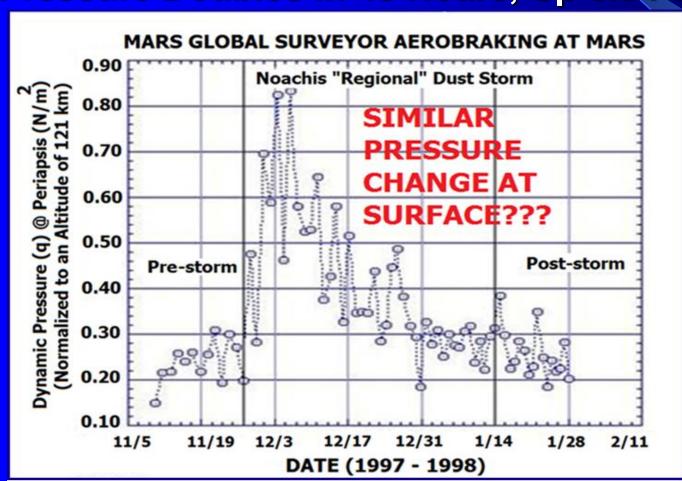
10 to 100 times more H₂0 than expected at 20 to 50 km. Partial pressures imply denser air too.

http://sci.esa.int/science-e-media/img/be/MEx water vapour animation 400.gif

WHY TRASH OCCAM?

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

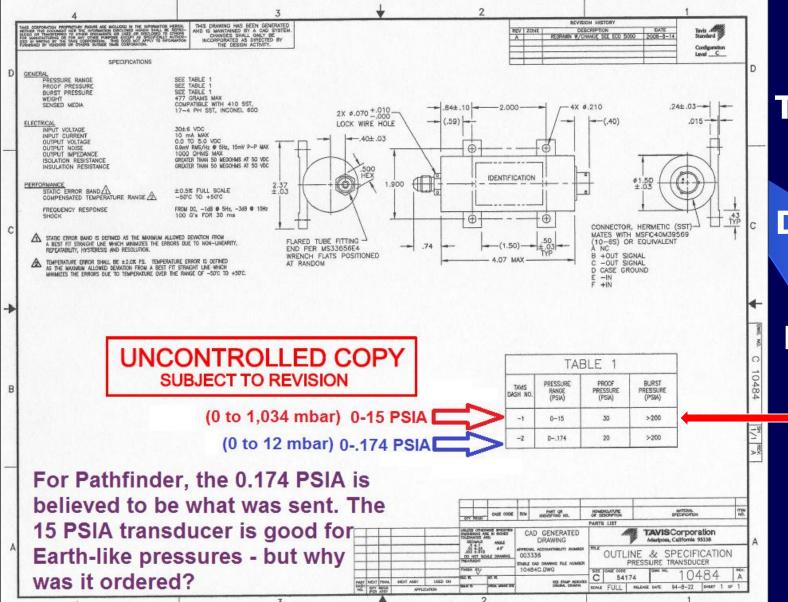
Pressure Doubles in 48 Hours, Up 5.6 Fold in 4 Weeks.



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 sensors could measure > 18 mbar and MSL is limited to 11.5 mbar.) No sensor 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.

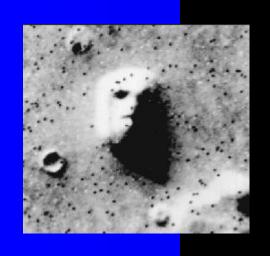


The sensor labeled Tavis
Dash No. 1 could Measure Earth-like Pressure!

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?

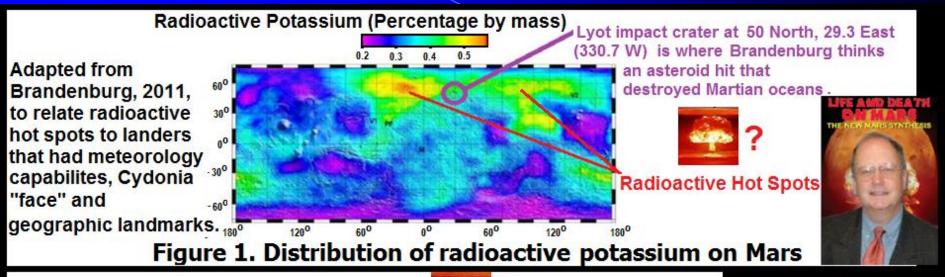
Highest-Resolution View of "Face on Mars"

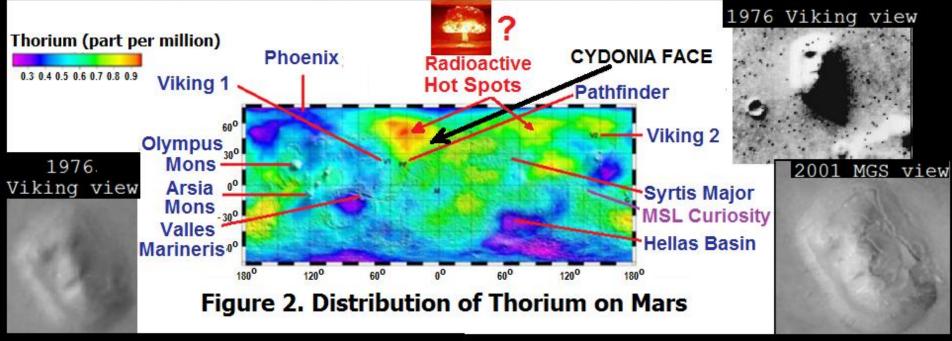
MGS MOC Release No. MOC2-283, 24 May 2001





Do radioactive sites on Mars mandate disinformation?

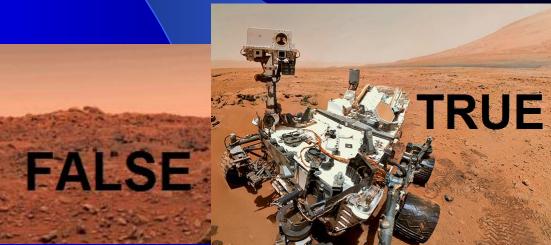




Why did NASA Administrator James Fletcher order the alteration of Martian sky color in 1976?

- * He was smart BS from Columbia, PhD from Cal Tech, taught at Harvard and Princeton.
- * But kept us in low Earth orbit until now and beyond.
- *Every picture of Mars sky color was wrong for 36 years after his order until MSL in August 2012.

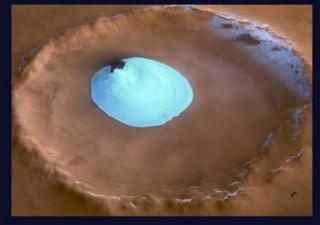




The face is an issue, the nuclear past is questionable, but evidence for higher than advertised pressure and sloppy handling of Mars weather data is irrefutable.



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,
103.21° East longitude

Mars is more like Earth than we have been told.

Our latest Basic Report is at

http://marscorrect.com/16%20January%202015%20Mars%20Report.pdf