

How to Detect Scientific Lies

WISDOM?

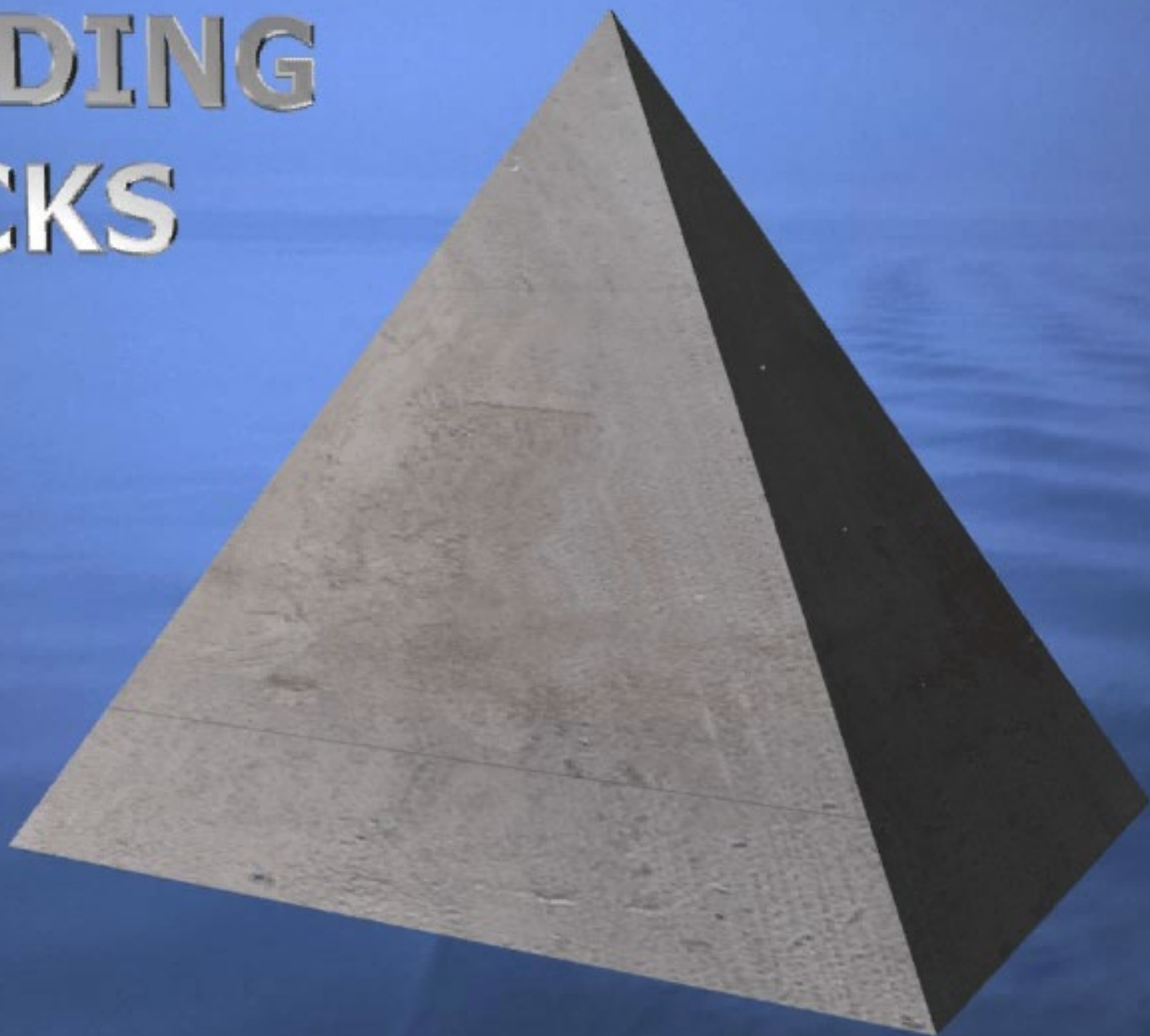
DIKIW?

Liew, A. (2013). DIKIW: Data, Information, Knowledge, Intelligence, Wisdom and their Interrelationships. *Business Management Dynamics*, 2(10), 49–62.

BUILDING BLOCKS



BUILDING BLOCKS



BUILDING BLOCKS

Definition
Sounds Like

WISDOM

Definition
Sounds Like

INTELLIGENCE

Definition
Sounds Like

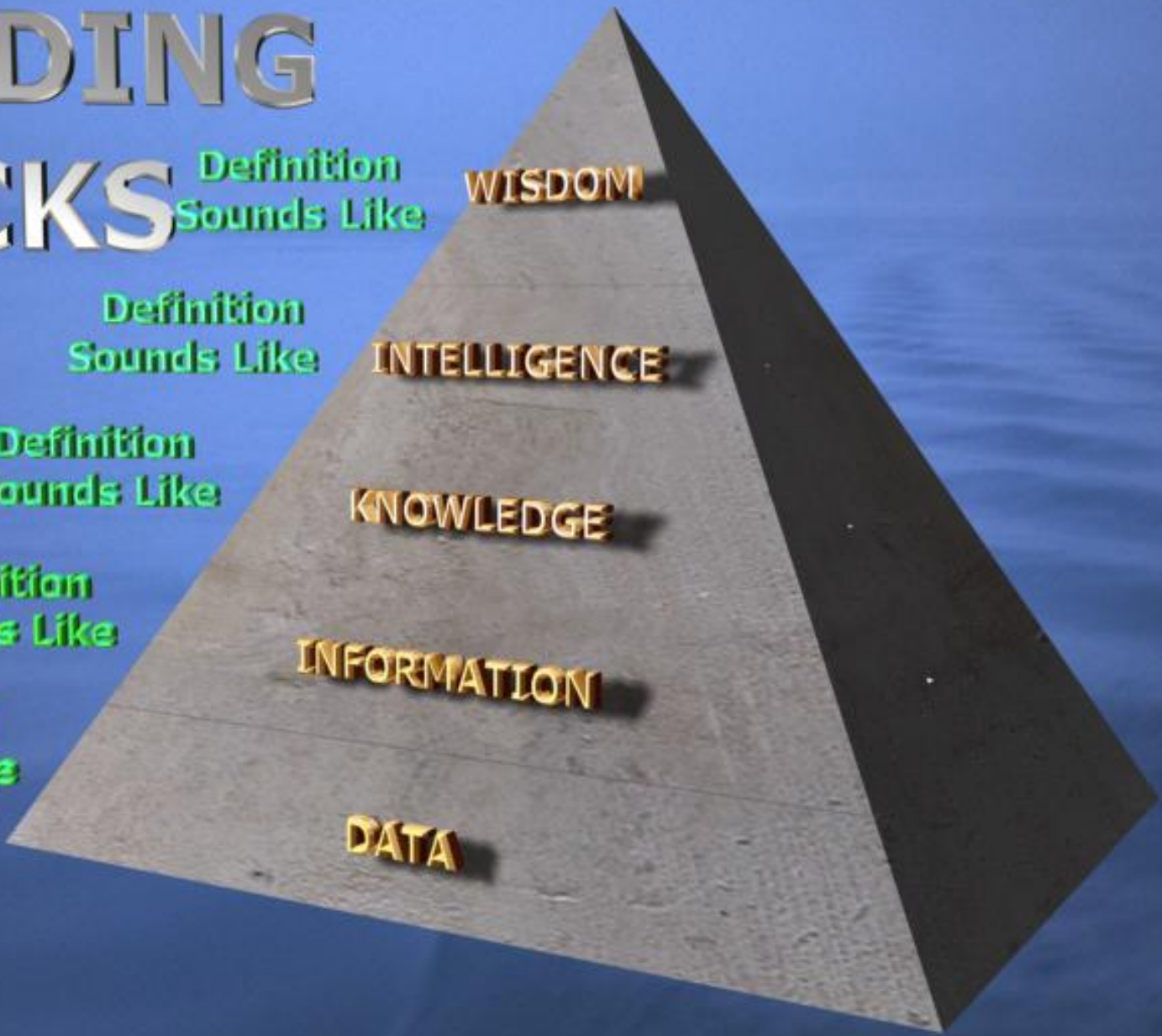
KNOWLEDGE

Definition
Sounds Like

INFORMATION

Definition
Sounds Like

DATA



BUILDING BLOCKS

Definition
Sounds Like

WISDOM

Definition
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INTELLIGENCE

Definition
Sounds Like

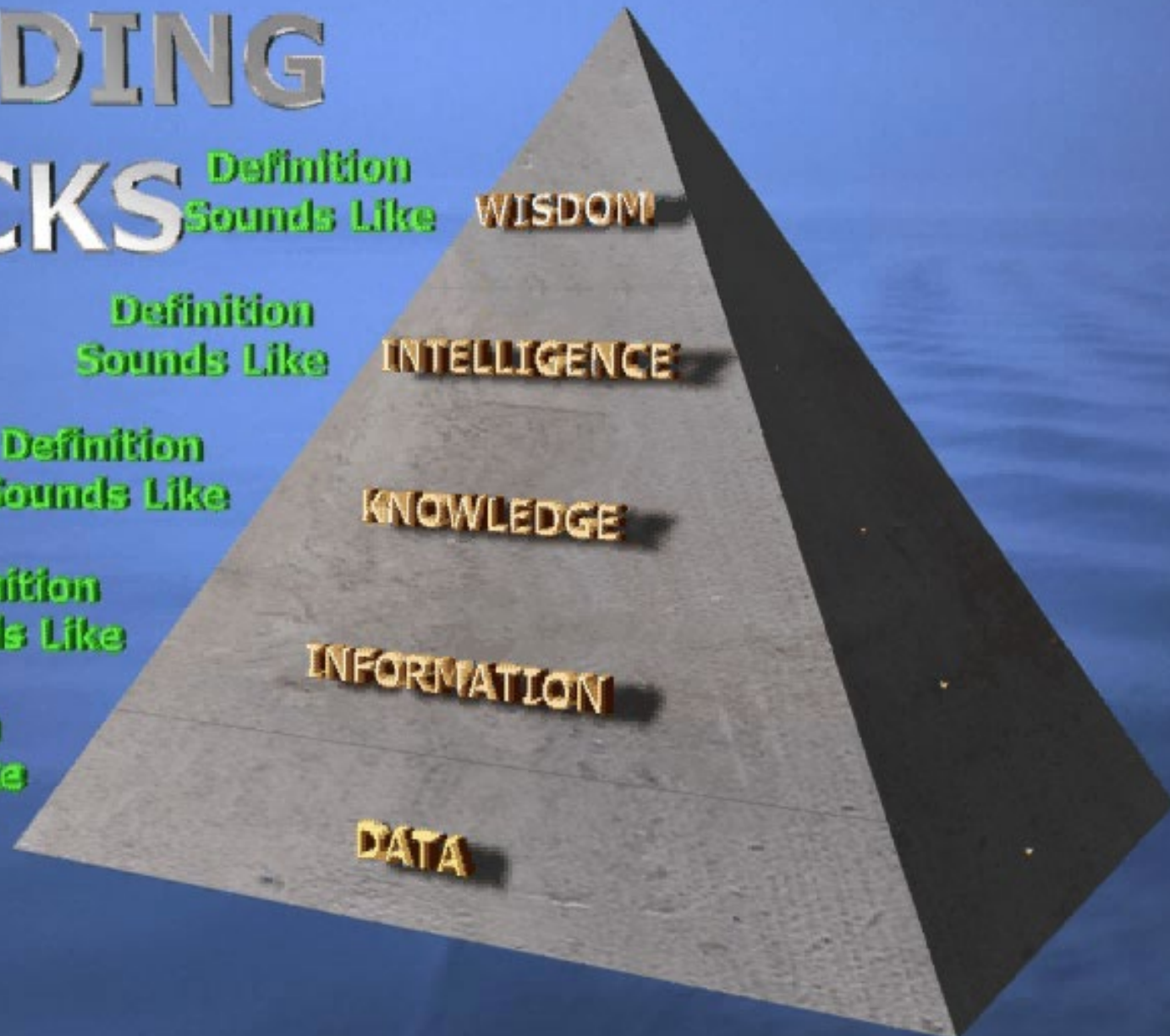
KNOWLEDGE

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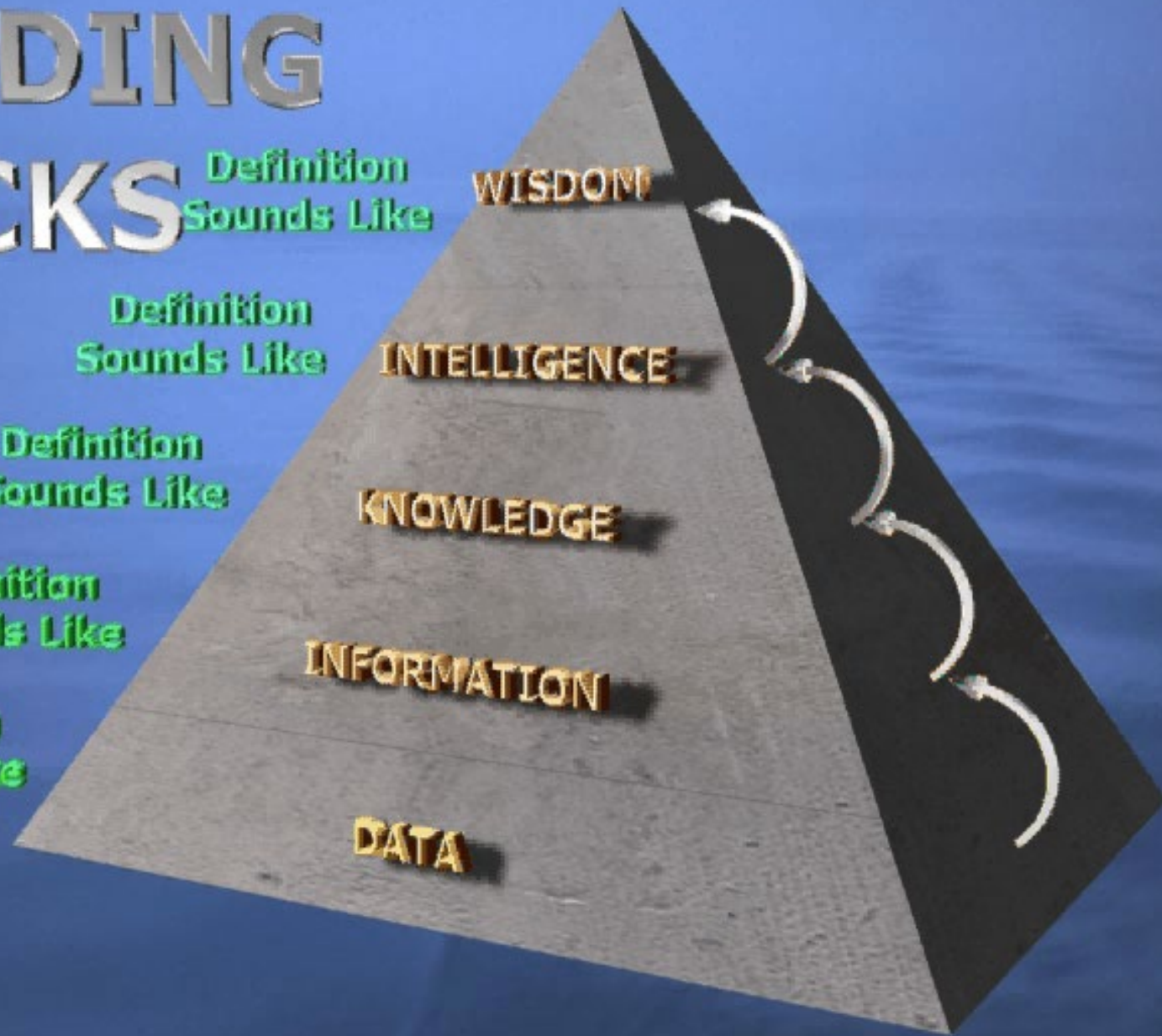
KNOWLEDGE

Definition
Sounds Like

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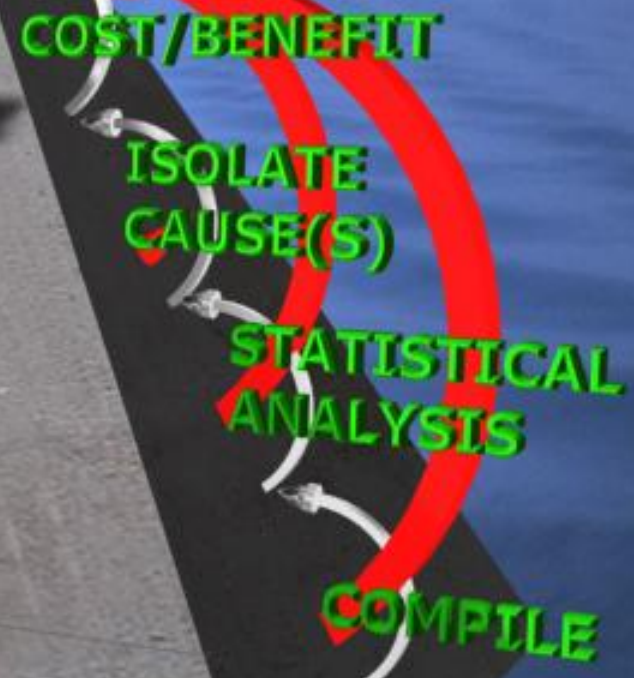
DATA



BUILDING BLOCKS



HOW TO LIE!



WHOOOOAAAAA ...

That's a lot to process.

(I already need a break!)

Please, let's go slow ... for me.

BACK UP, PLEASE. A "LIE" IS:

An *intentional* act to deceive or mislead

WHAT IF:
THEY HAVE BEEN DECEIVED?
THEY DECEIVED THEMSELVES?
THEY MADE MISTAKES ?

NOT A LIE!

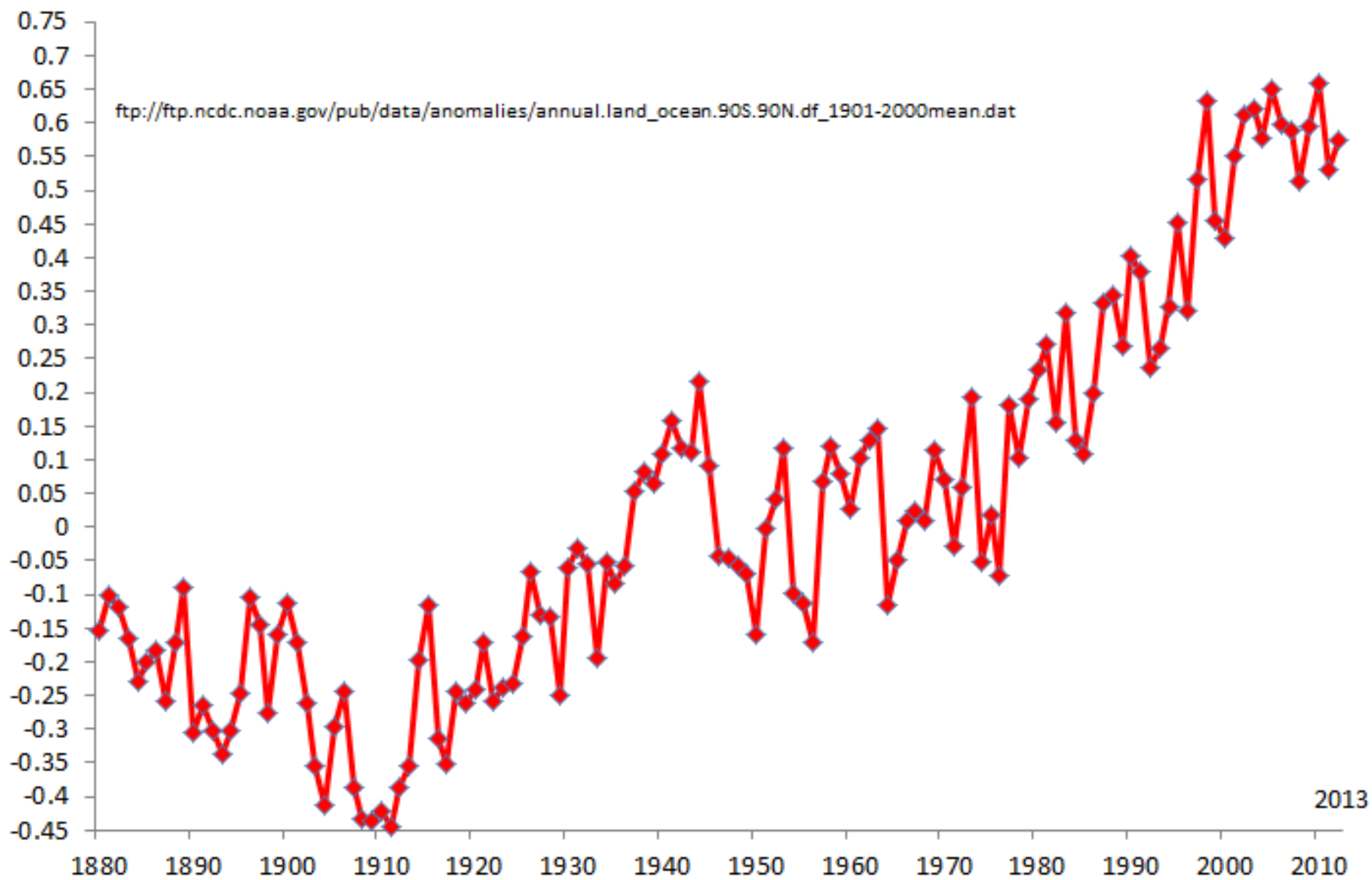
A blue-tinted photograph of a calm sea at night. In the distance, a single light is visible on the horizon, creating a reflection on the water's surface. The overall mood is serene and contemplative.

USE A REAL WORLD EXAMPLE

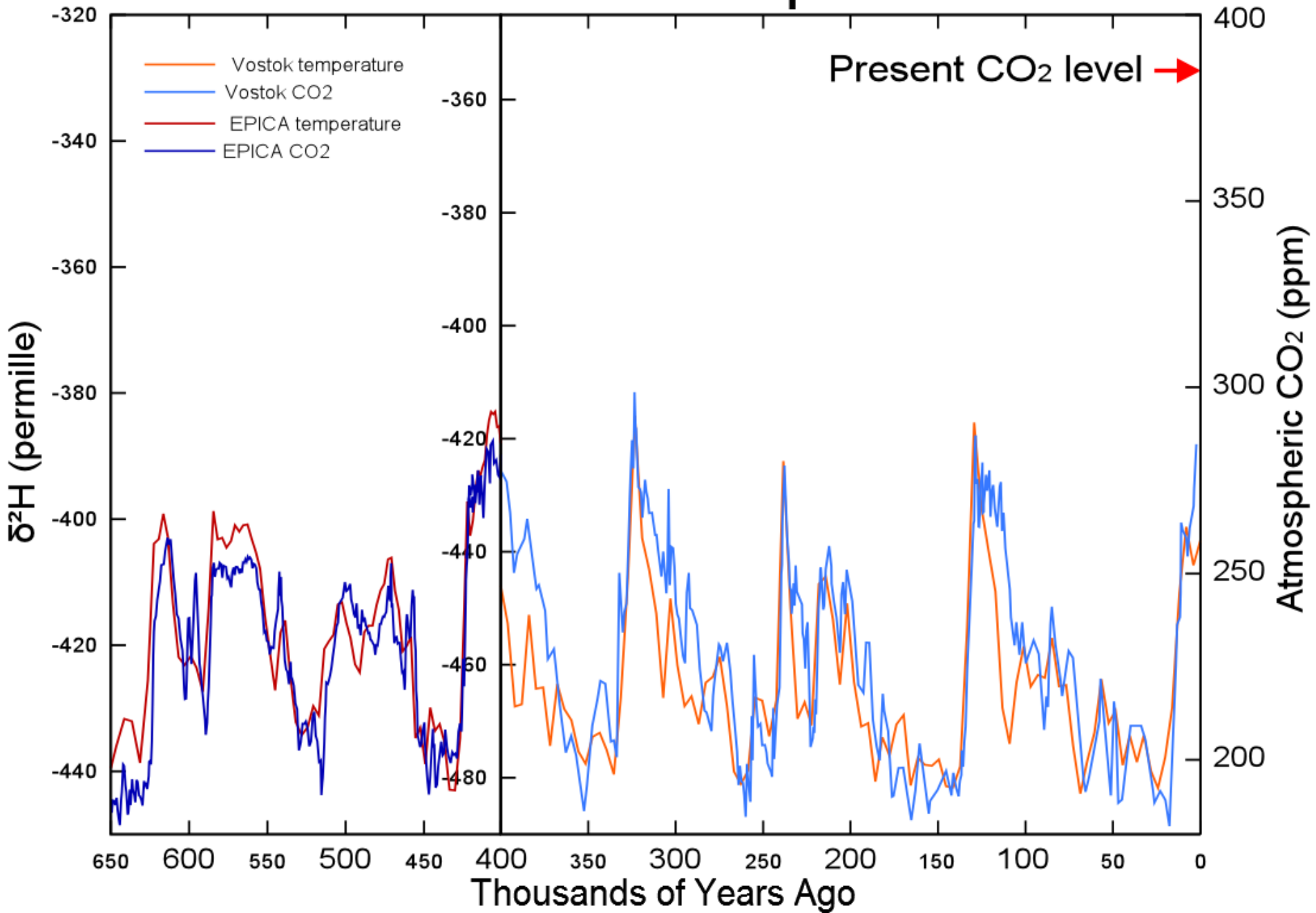
WARNING: NOT GOING TO PROVE OR
DISPROVE THIS EXAMPLE

JUST WHEN THEY *TRY* TO DECEIVE

Global Temperature Changes from the 20th Century Average (degrees C)



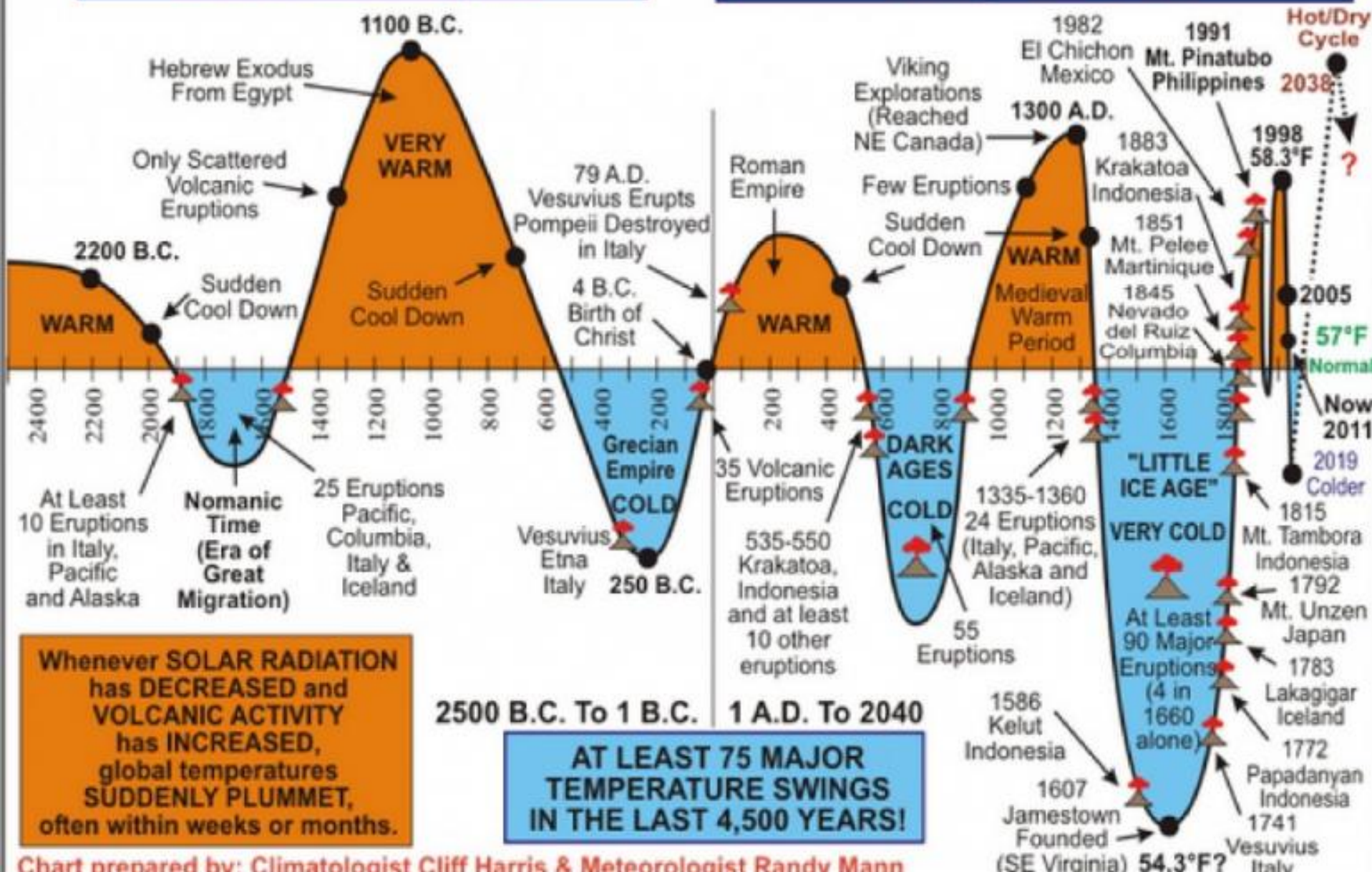
Carbon Dioxide and Temperature Records



GLOBAL TEMPERATURES (2500 B.C. TO 2040 A.D.)

MAJOR GLOBAL COOLING SINCE LATE 2007
 A 0.9 Degree Fahrenheit drop in global temperatures from late 2007 to February 2009.

MOUNT PINATUBO ERUPTION (Philippines)
 1.1 Degree F. Rapid Cool Down (June 1991 to March 1992)
 Global Temperature Went From 0.6 Degrees Above Normal To 0.5 Degrees Below Normal.



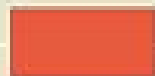
Whenever SOLAR RADIATION has DECREASED and VOLCANIC ACTIVITY has INCREASED, global temperatures SUDDENLY PLUMMET, often within weeks or months.

Chart prepared by: Climatologist Cliff Harris & Meteorologist Randy Mann

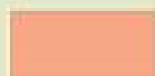
The graph that reveals how '95 per cent certain' estimates of the earth heating up were a spectacular miscalculation

Changes in temperature in degrees Celcius

+1.5°



This dark red area is climate scientists' official prediction of world temperatures to a **75% degree** of certainty...



...and this light red area is their official prediction of world temperatures to a **95% degree** of certainty...

+1°



...and this heavy black line is the official world average temperature - which is about to crash out of them both

+0.5°

SOURCES Predicted temperatures: Computer models used by UN Intergovernmental Panel on Climate Change. Actual temperature: Met Office

0°

NOTE: Only the shaded red bands to right of this white line were true predictions - similar data does not apply before this date, so the 'predictions' to the left were actually plotted in retrospect

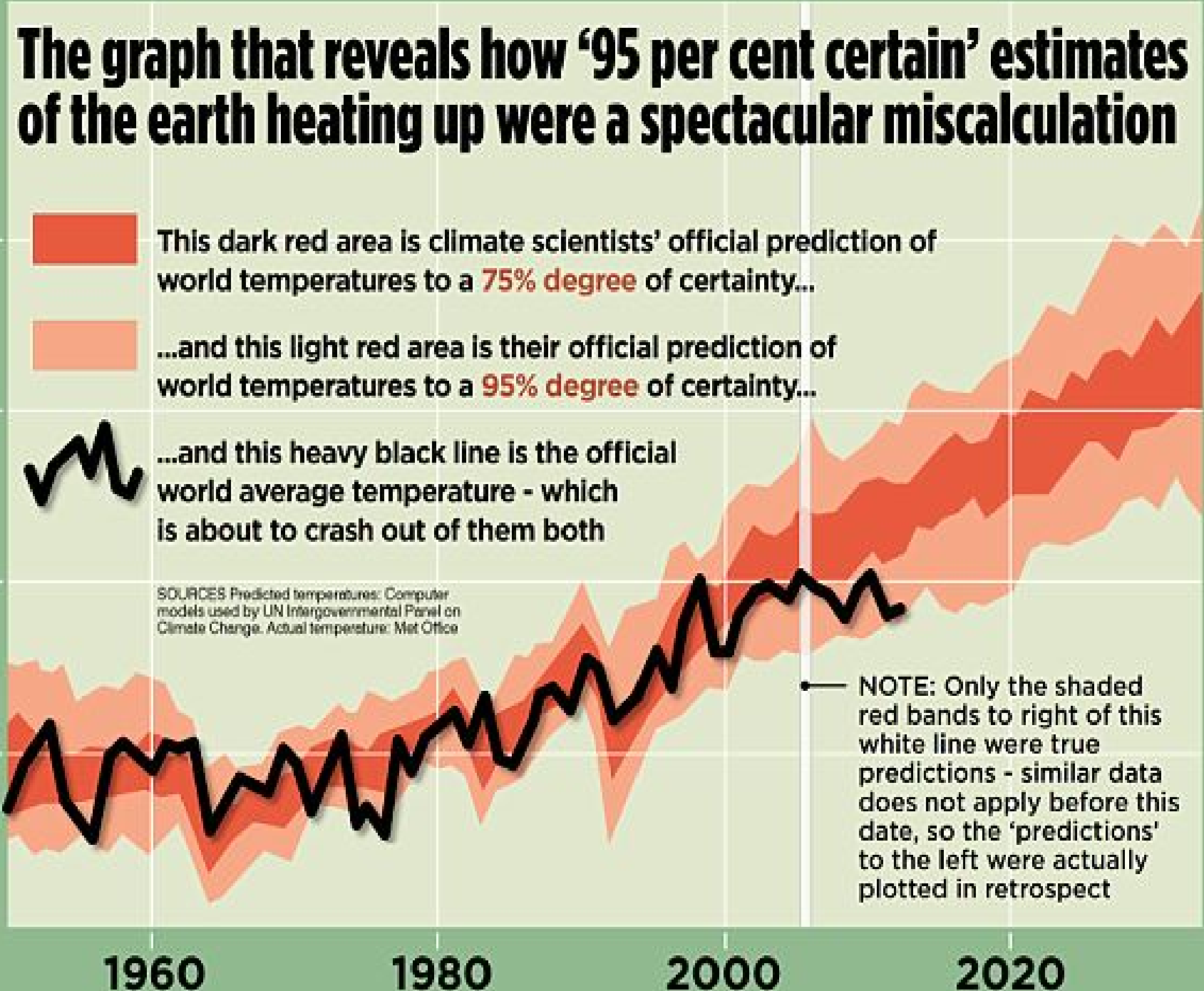
-0.5°

1960

1980

2000

2020



MY BRAIN ALREADY HURTS!

WISDOM?

How can we tell **ANYONE** is lying with this mess?

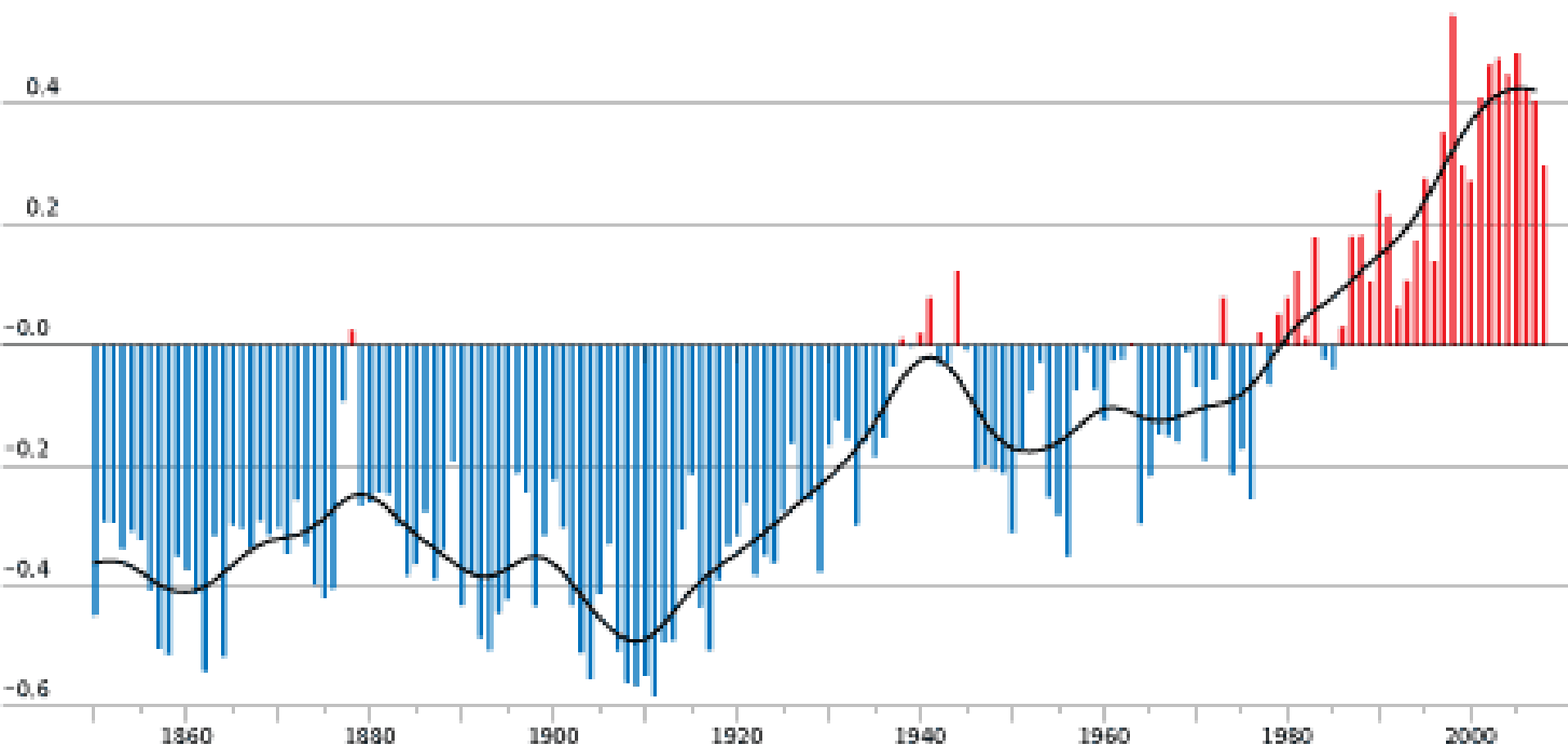
DIKIW!

USE THIS CHART AS A MEANS FOR DIKIW

NOAA DATA 2008

Global air temperature

Temperature relative to 1961-1990 average, C



SOURCE: CLIMATIC RESEARCH UNIT

BUILDING BLOCKS



BUILDING BLOCKS

Data:

Storage of *intrinsic* meaning, a mere representation.

The main purpose of data is to *record activities or situations.*

Liew, A. (2013).

Definition
Sounds Like

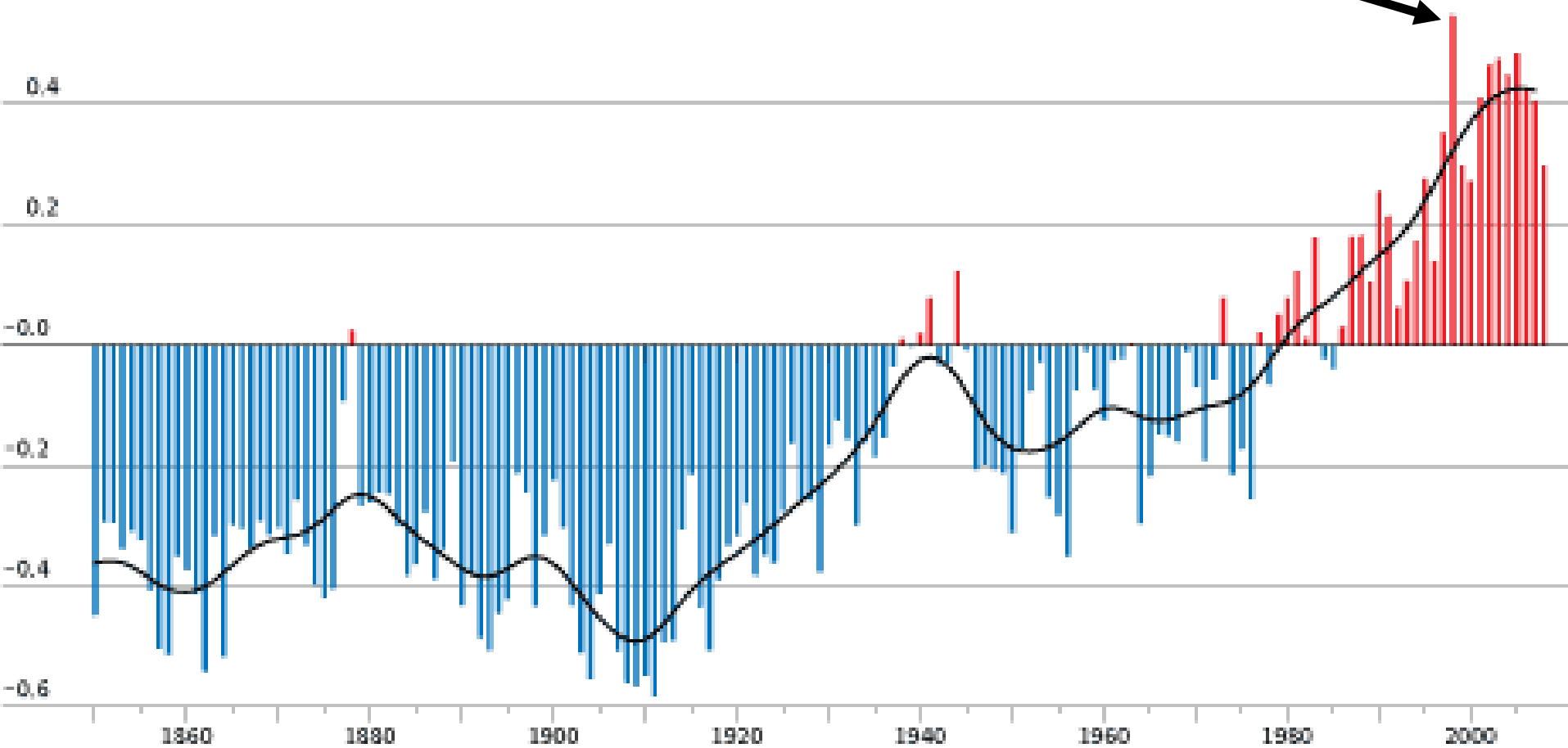


DATA

Global air temperature

Temperature relative to 1961-1990 average, C

DATA POINT



SOURCE: CLIMATIC RESEARCH UNIT

DATA **LIE** (JUMP STRAIGHT TO "WISDOM")

"Look, look at this glacier!"
"Look, look at this record temp!"
"Look, CO2 is up 73%!"

"Why can't you see this!?!"

"We must shut down all COAL plants!"
"We need CAP/TRADE taxation!"
"We need CLIMATE accords!"
"We must dictate electric cars, etc.!"



DATA LIE (INTENTIONAL ACT)
JUMP STRAIGHT TO "WISDOM"

LYING? Must check the
background of the presenter

PhDs? **DEFINITELY** (We know better)

Engineers/Masters **VERY SUSPECT**

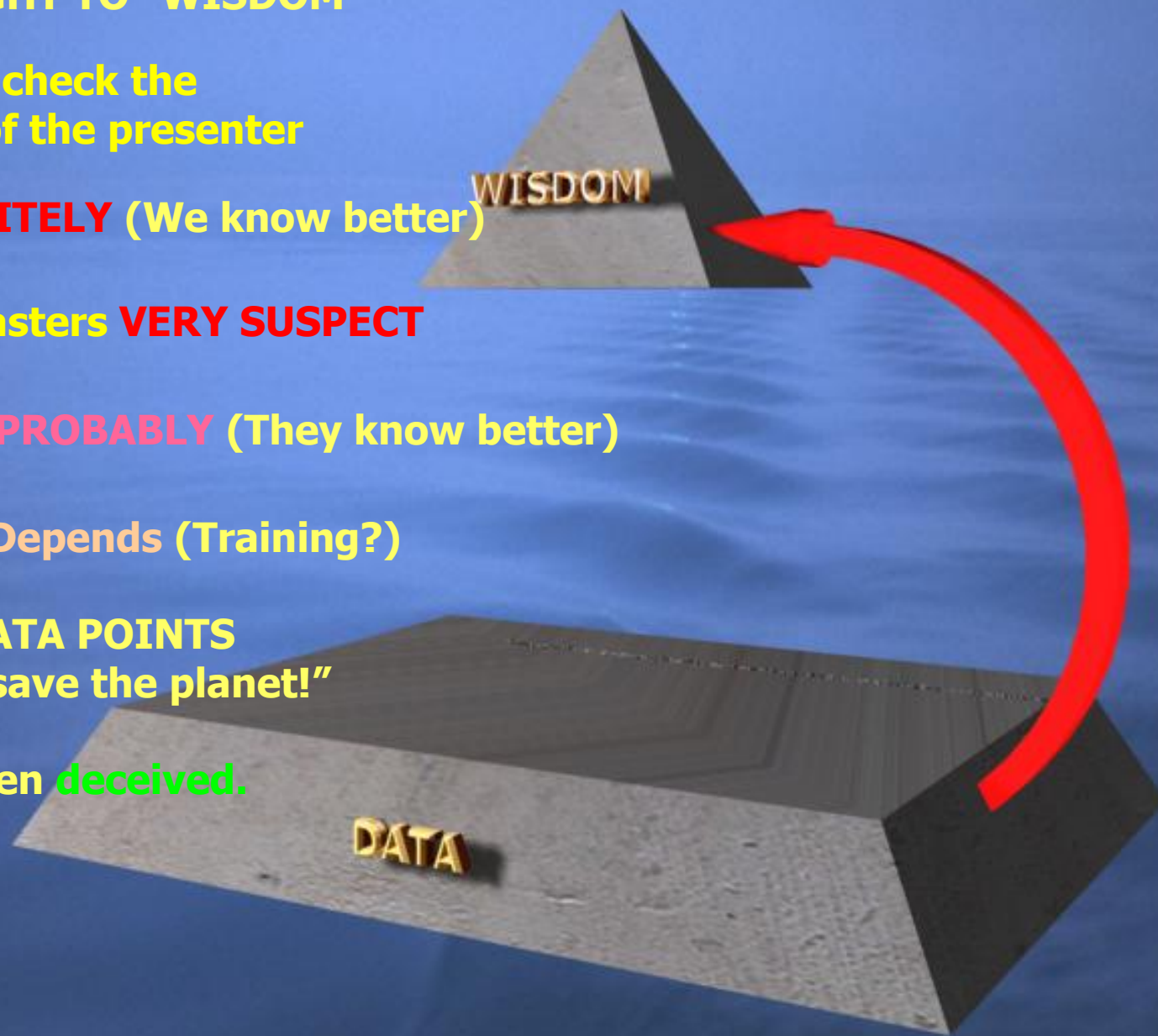
News/Media **PROBABLY** (They know better)

Individuals? Depends (Training?)

Yelling the **DATA POINTS**
"We need to save the planet!"

Most have been **deceived.**

NOT A LIE!



"Sir/Ma'am,

"Thank you for arguing these
DATA points. Perhaps our planet has
been warming from the last ice age?"

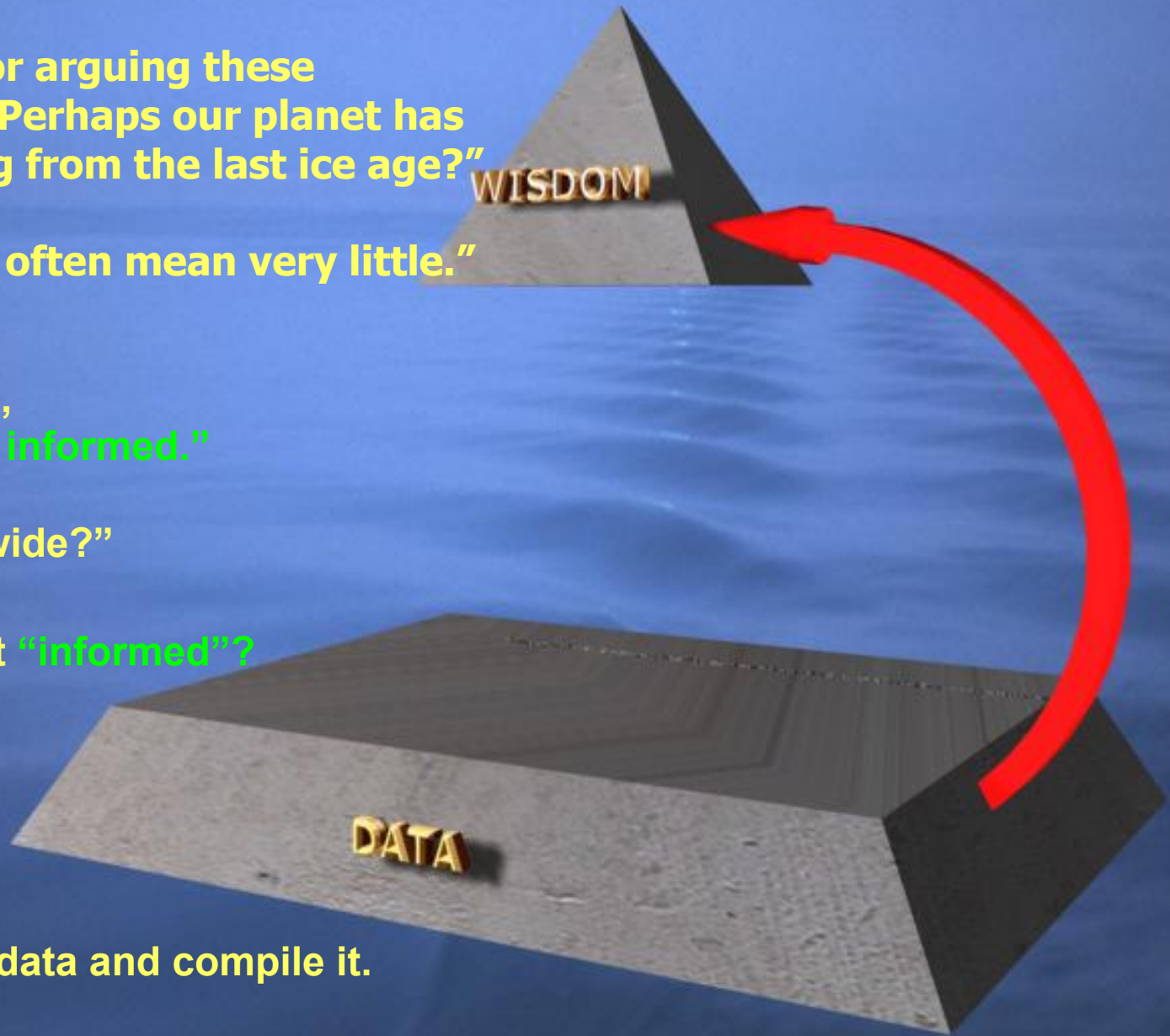
"Percentages often mean very little."

"We as people,
have not been **informed**."

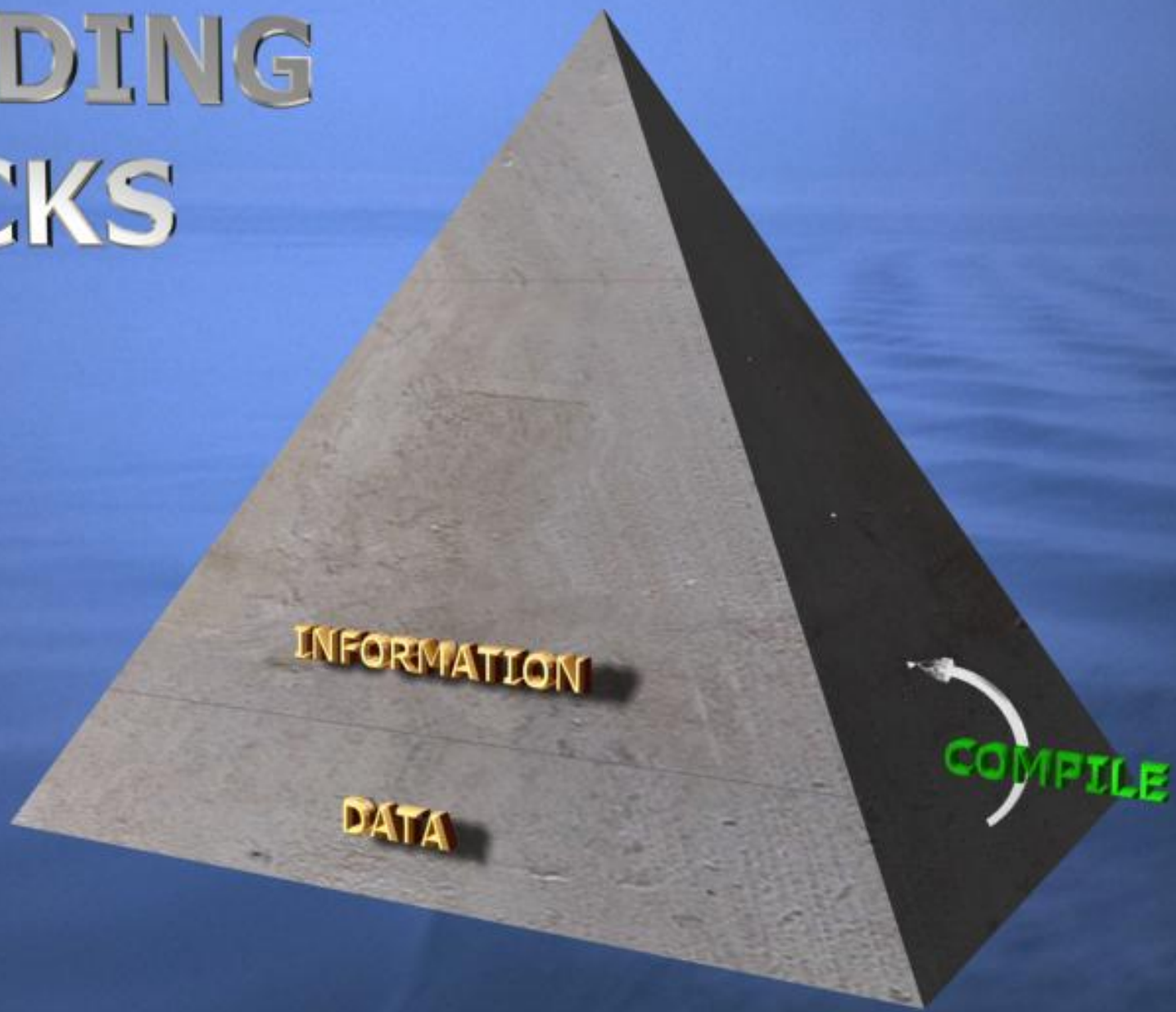
"Is this worldwide?"

How do we get "**informed**"?

Go get **MORE** data and compile it.



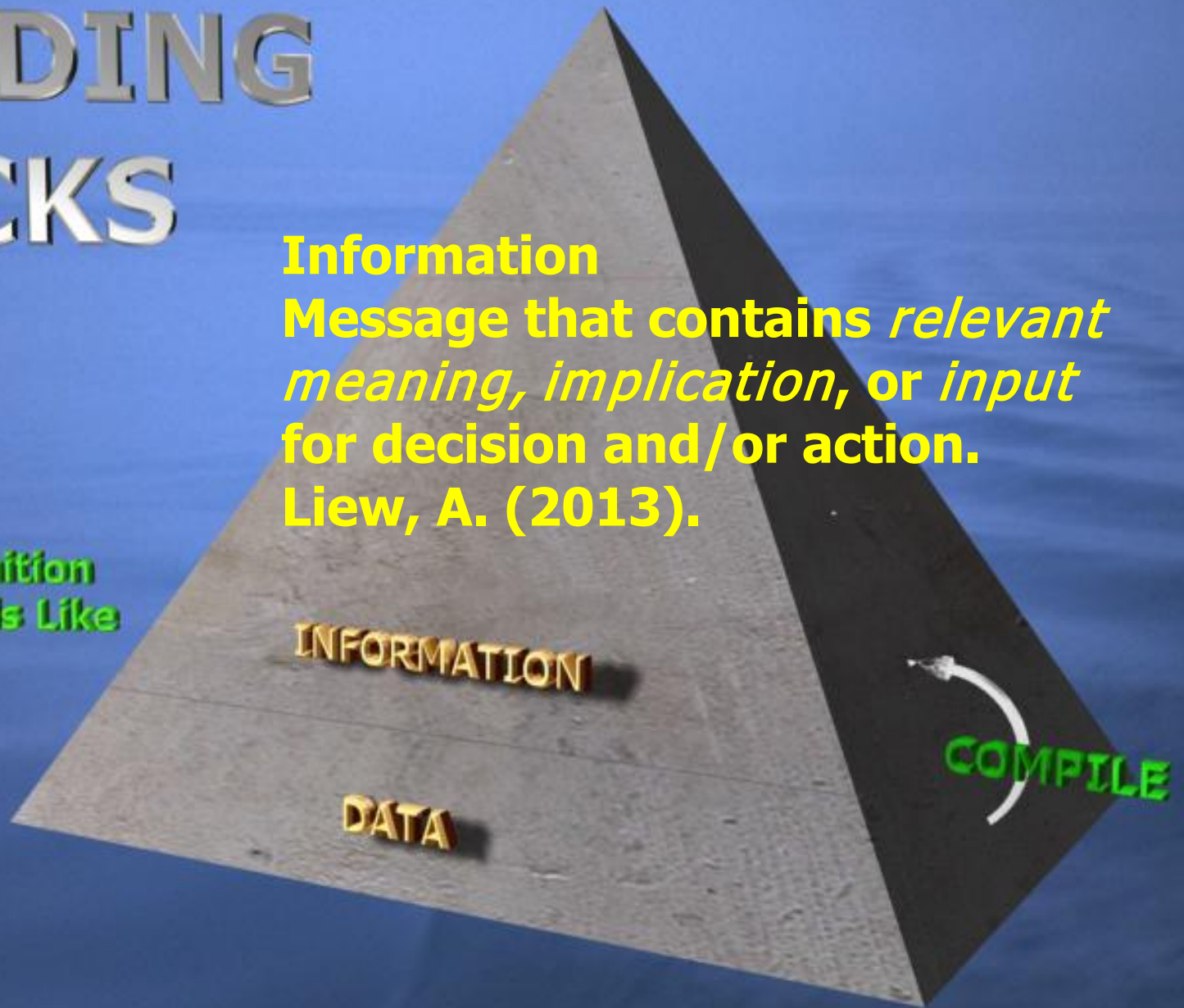
BUILDING BLOCKS



BUILDING BLOCKS

Information
Message that contains *relevant meaning, implication, or input* for decision and/or action.
Liew, A. (2013).

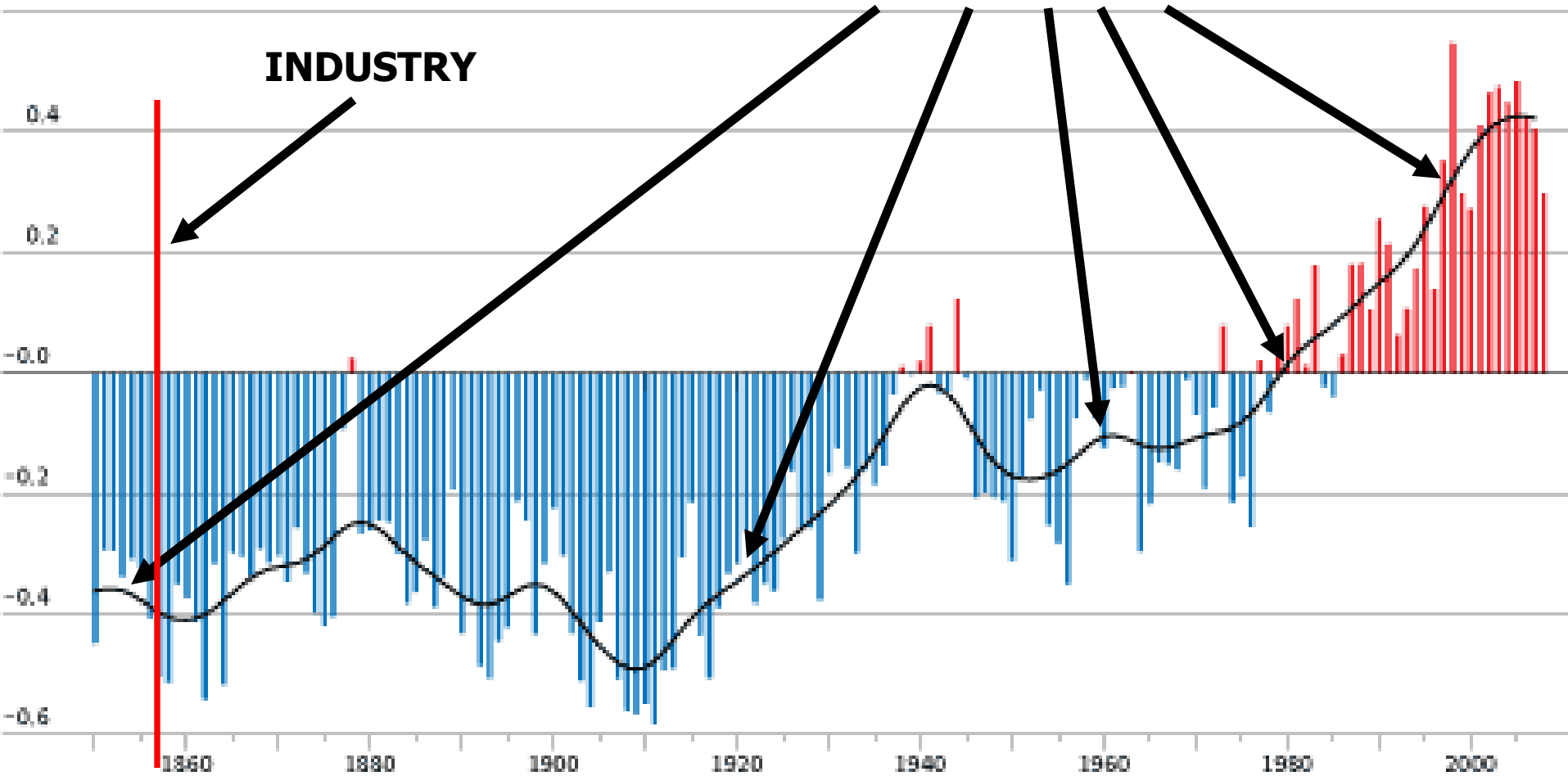
Definition
Sounds Like



INFORMATION

Global air temperature

Temperature relative to 1961-1990 average, C



SOURCE: CLIMATIC RESEARCH UNIT

INFORMATION LIE (Intentional act)
JUMP STRAIGHT TO "WISDOM"

“Look, look at **all** these glaciers!”

“Look, look at **all** these record temps!”

“Look CO2 is up 73%!”

“O2 has been reduced .7% over
500,000 years!”

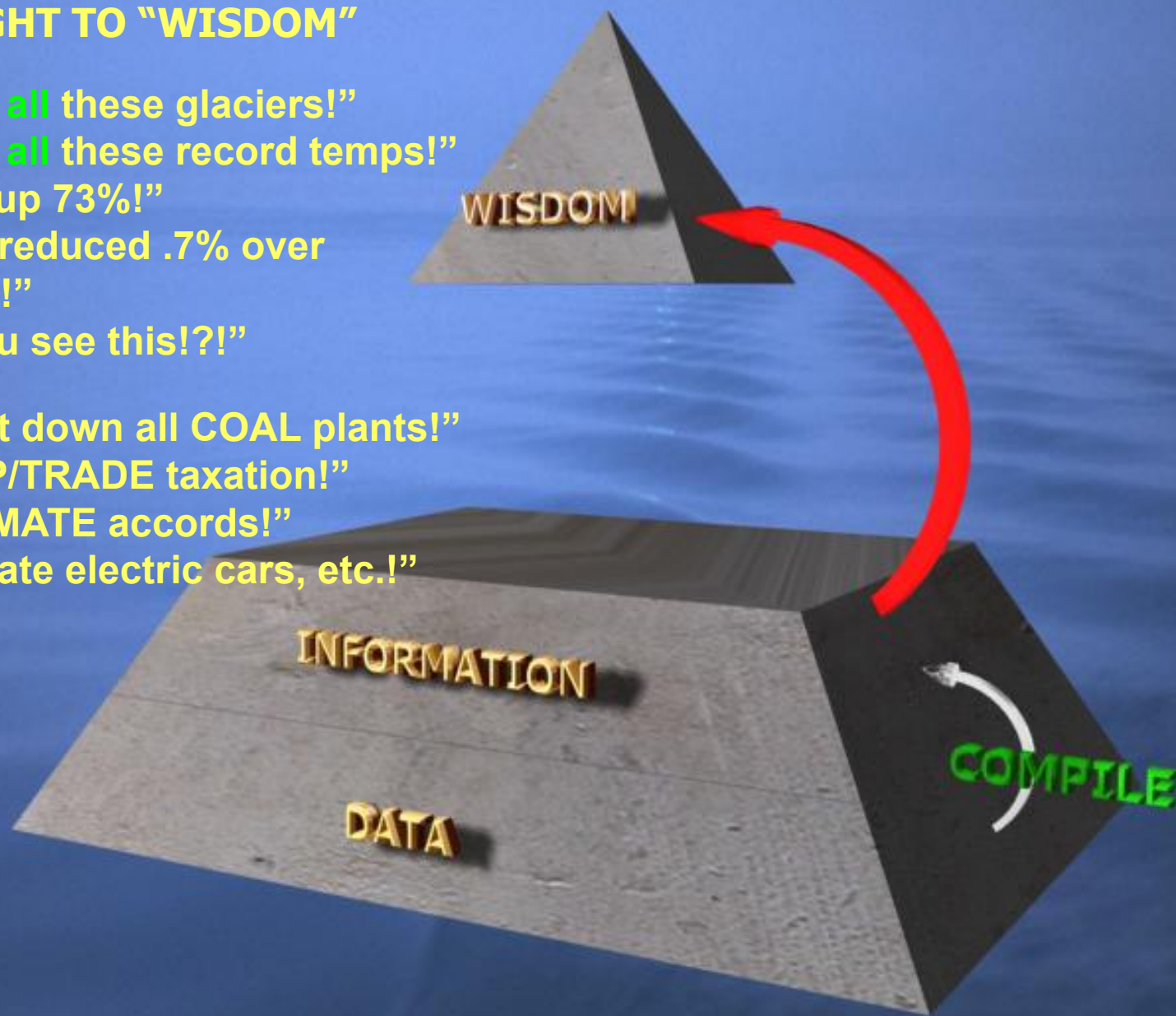
“Why can't you see this!?!”

“We must shut down all COAL plants!”

“We need CAP/TRADE taxation!”

“We need CLIMATE accords!”

“We must dictate electric cars, etc.!”



**INFORMATION LIE (INTENTIONAL)
JUMP STRAIGHT TO "WISDOM"**

LYING? Must check the
background of the presenter

PhDs? **DEFINITELY** (We know better)

Engineers/Masters **SUSPECT**

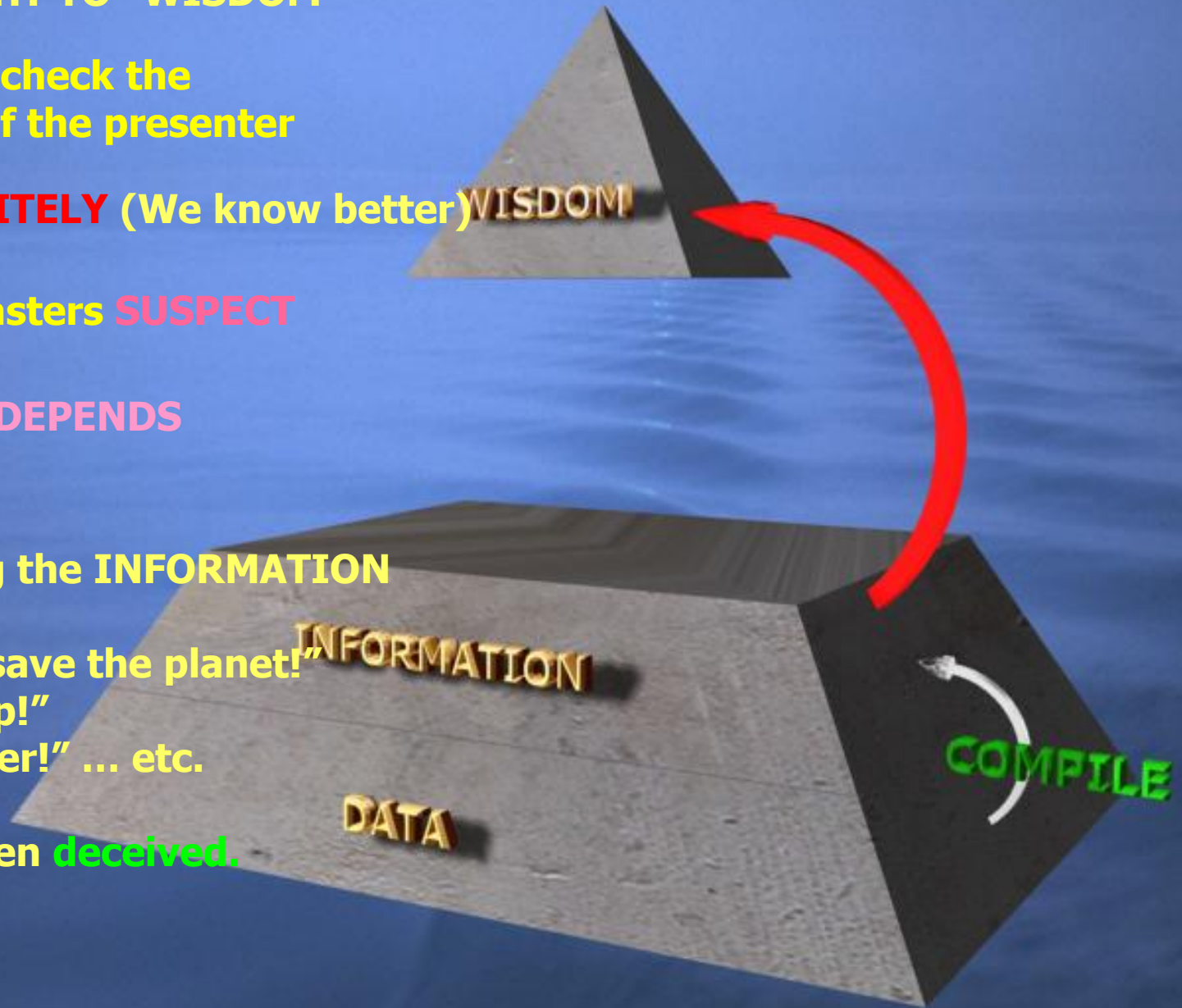
News/Media **DEPENDS**

Individuals?
Higher yelling the **INFORMATION**

"We need to save the planet!"
"Lock them up!"
"Science denier!" ... etc.

Most have been **deceived.**

NOT LYING!



"Sir/Ma'am,

Thank you for presenting this INFORMATION. We know that all over the world we are INFORMED

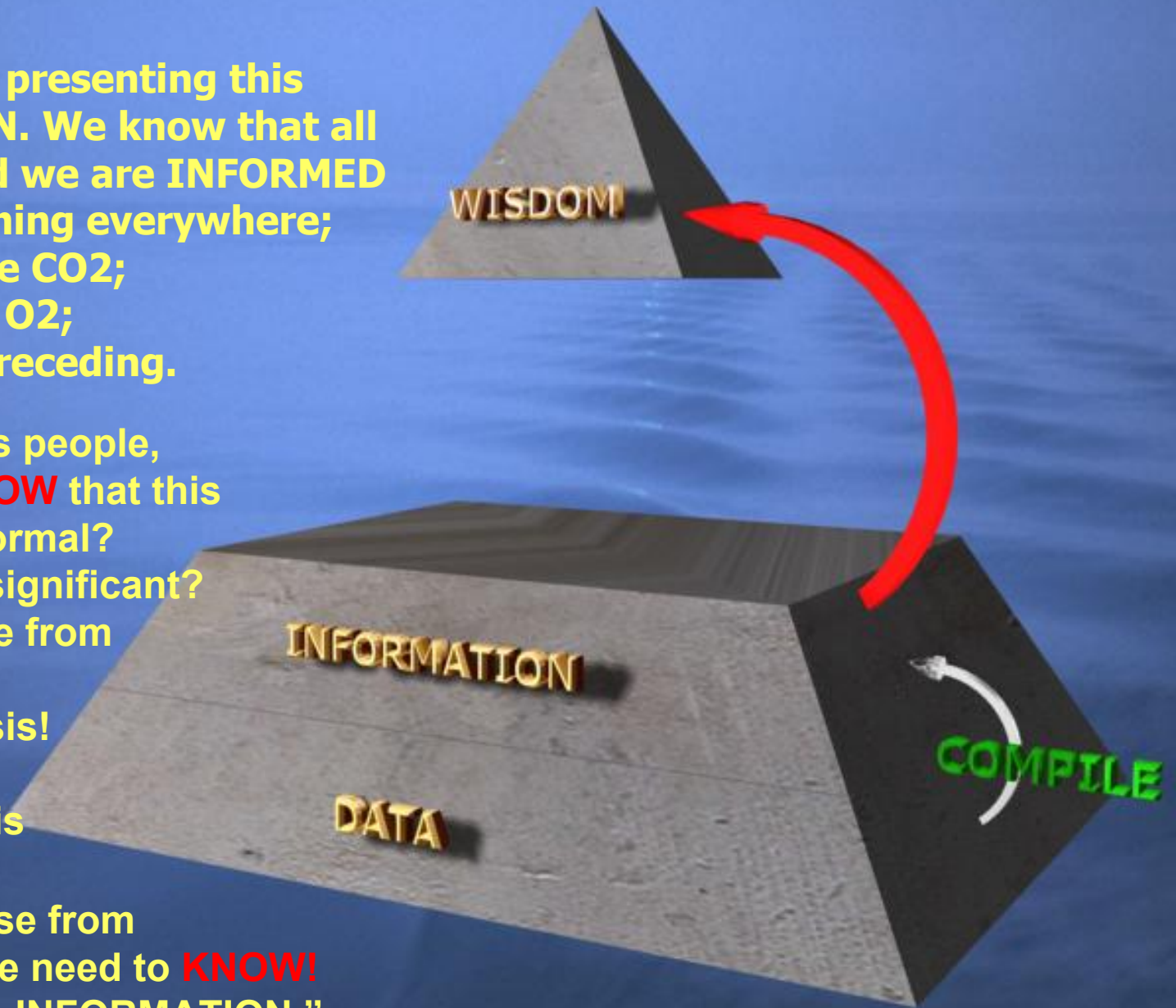
- We are warming everywhere;
- There is more CO₂;
- There is less O₂;
- Glaciers are receding.

However, we as people, how do we **KNOW** that this change is abnormal? Is the change significant? Is it a departure from expected?

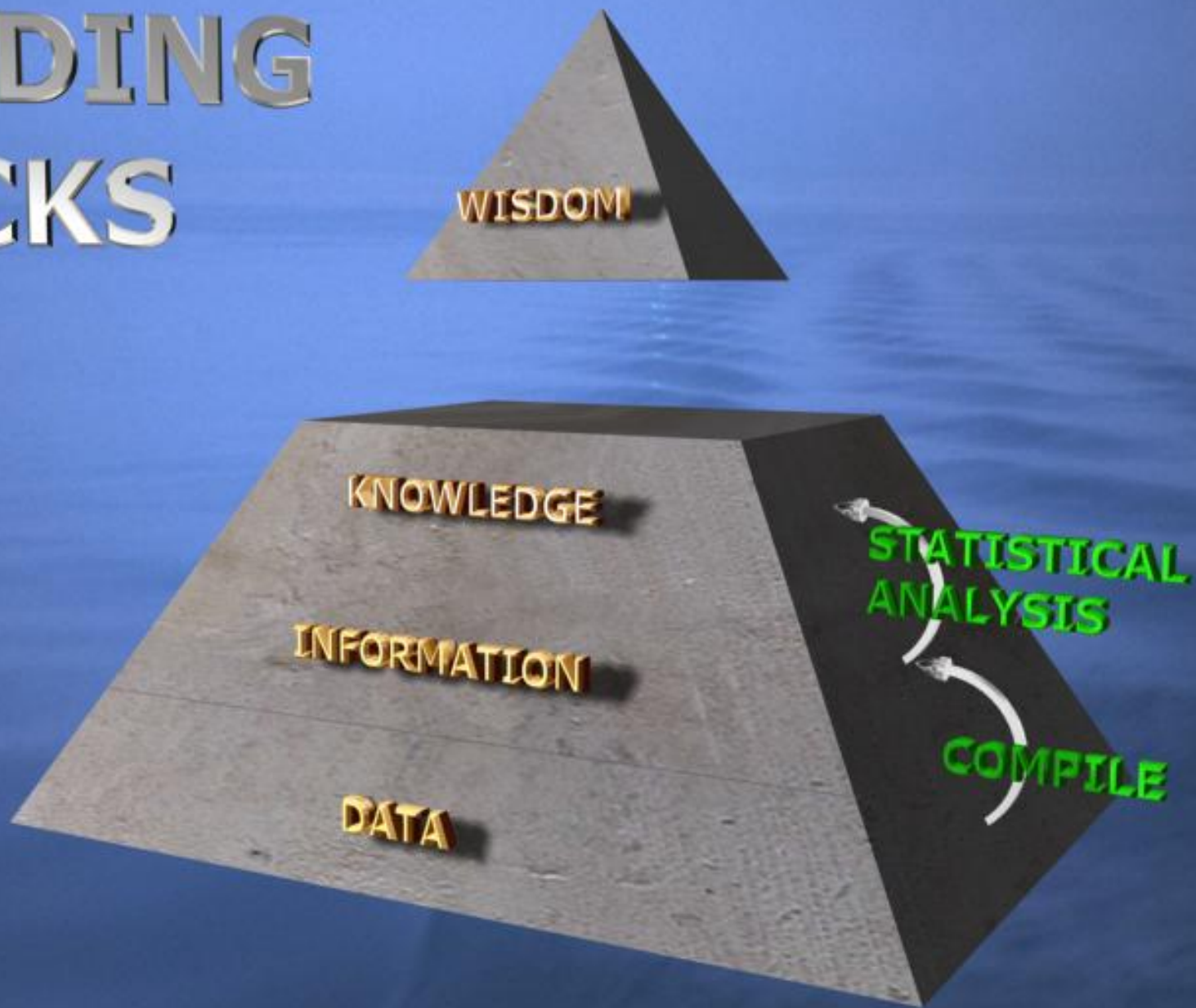
Form hypothesis!

Are we sure this is a problem?

We can't be wise from information. We need to **KNOW!**
We analyze the INFORMATION."



BUILDING BLOCKS



BUILDING BLOCKS

Knowledge

**Is the cognition or recognition
(*know what*)."**

Liew, A. (2013).

**Definition
Sounds Like**

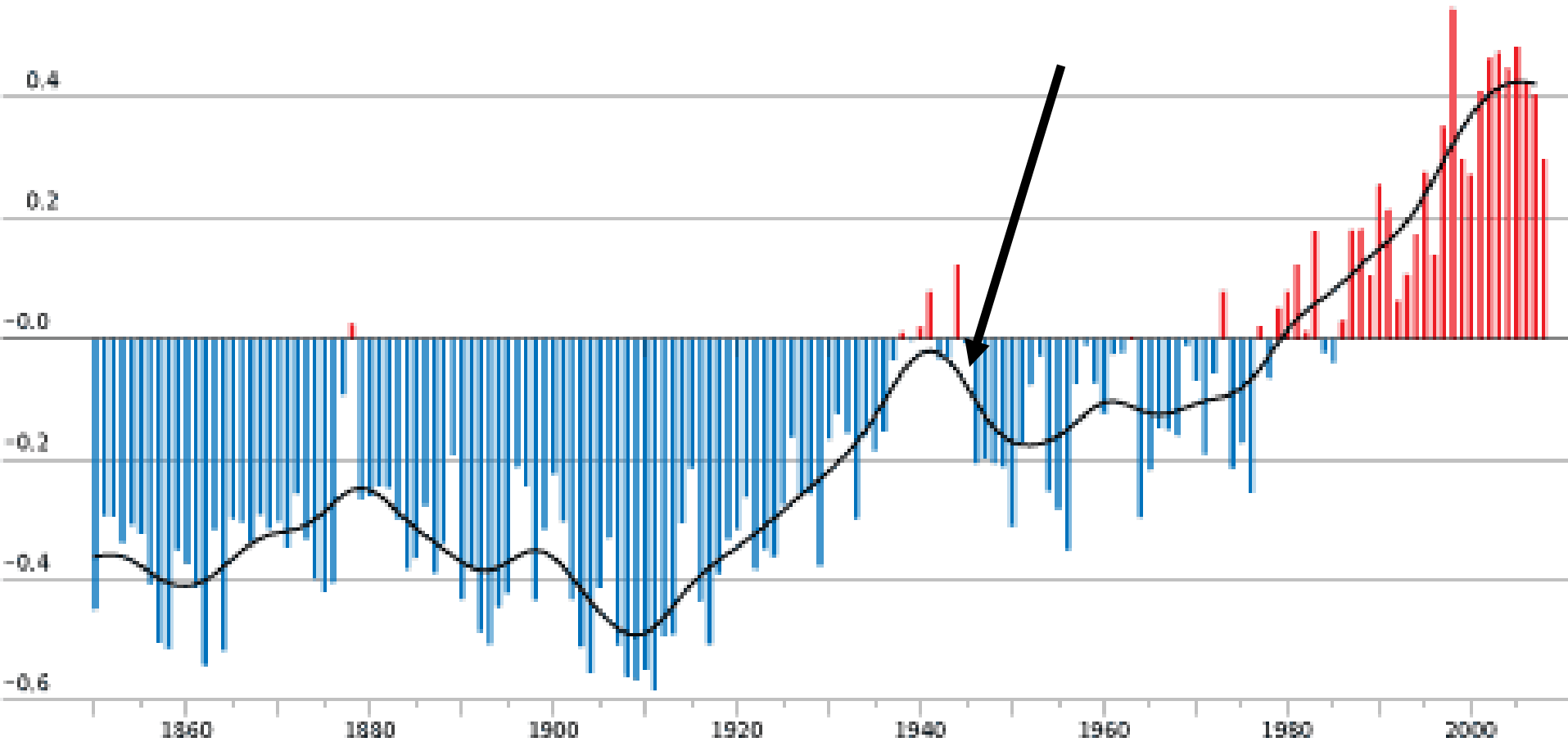


KNOWLEDGE

Global air temperature

Temperature relative to 1961-1990 average, C

**WHAT DOES THIS LINE SAY?
IS IT IMPORTANT?**



SOURCE: CLIMATIC RESEARCH UNIT

STATISTICS



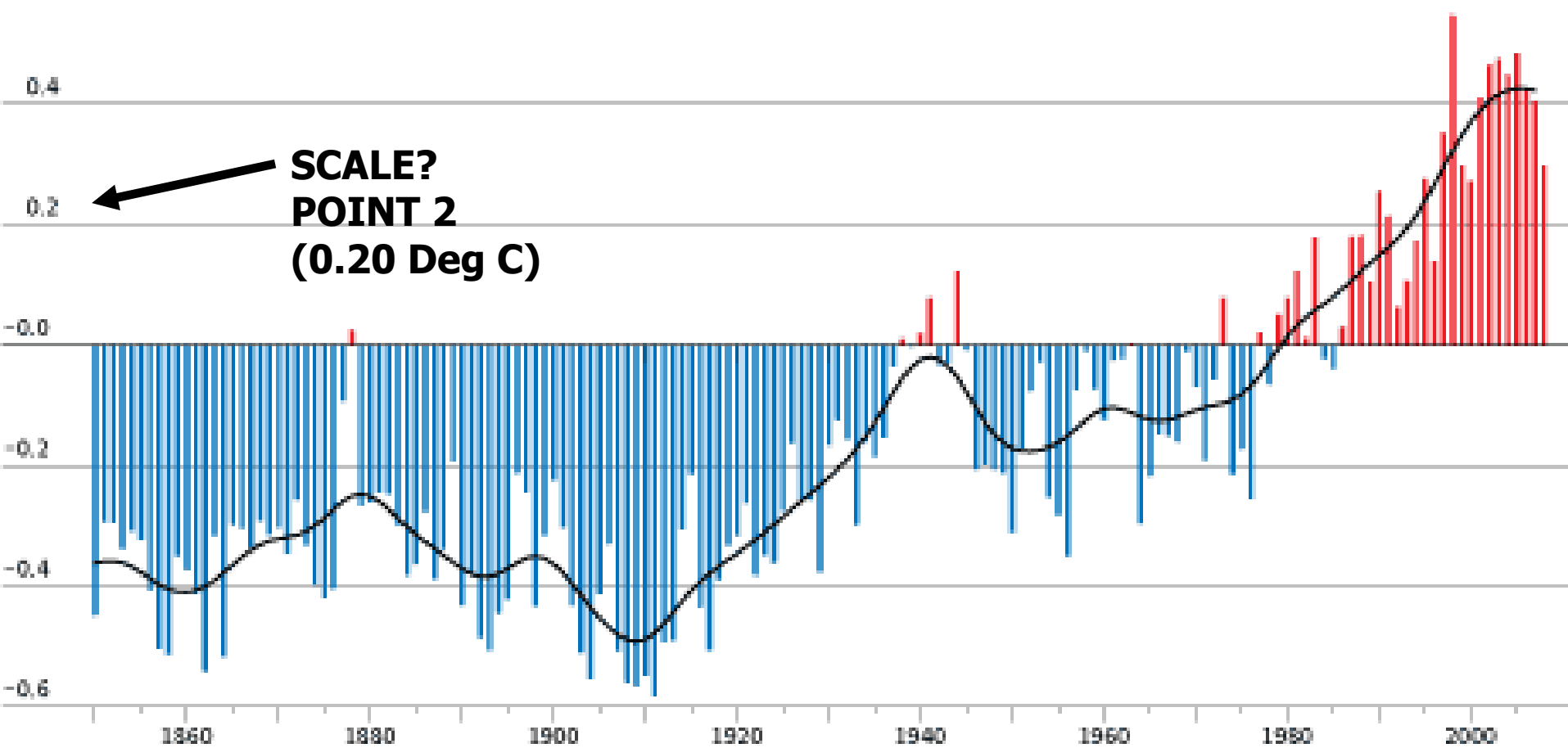
What it is and isn't

- **Stats are simple:**
Based on a known history of data and information, how **CONFIDENT ARE WE** that our hypothesis is true?
 - Is our hypothesis ... true?
 - How true? How **sure** are we that it's true?
 - Predictive of what the future values will be.
- **NOT stats**
 - She holds the world record in 100M.
 - That is the fastest team in the world.
 - Here are the top 10 rushing backs.
 - 36 different types of penguins are gone.

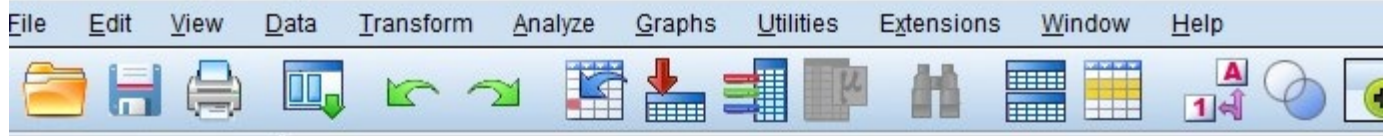
KNOWLEDGE

Global air temperature

Temperature relative to 1961-1990 average, C



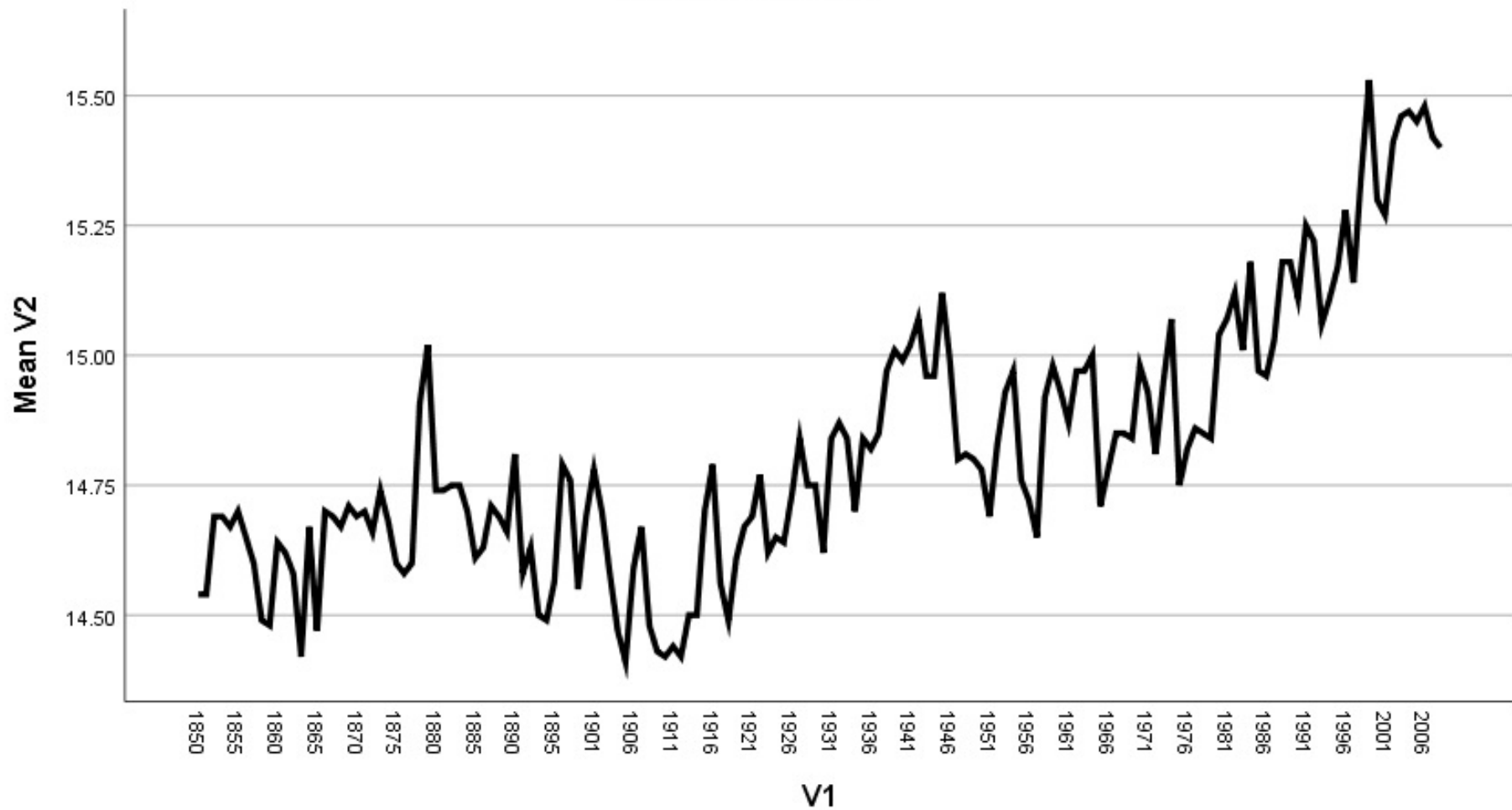
SOURCE: CLIMATIC RESEARCH UNIT



1:

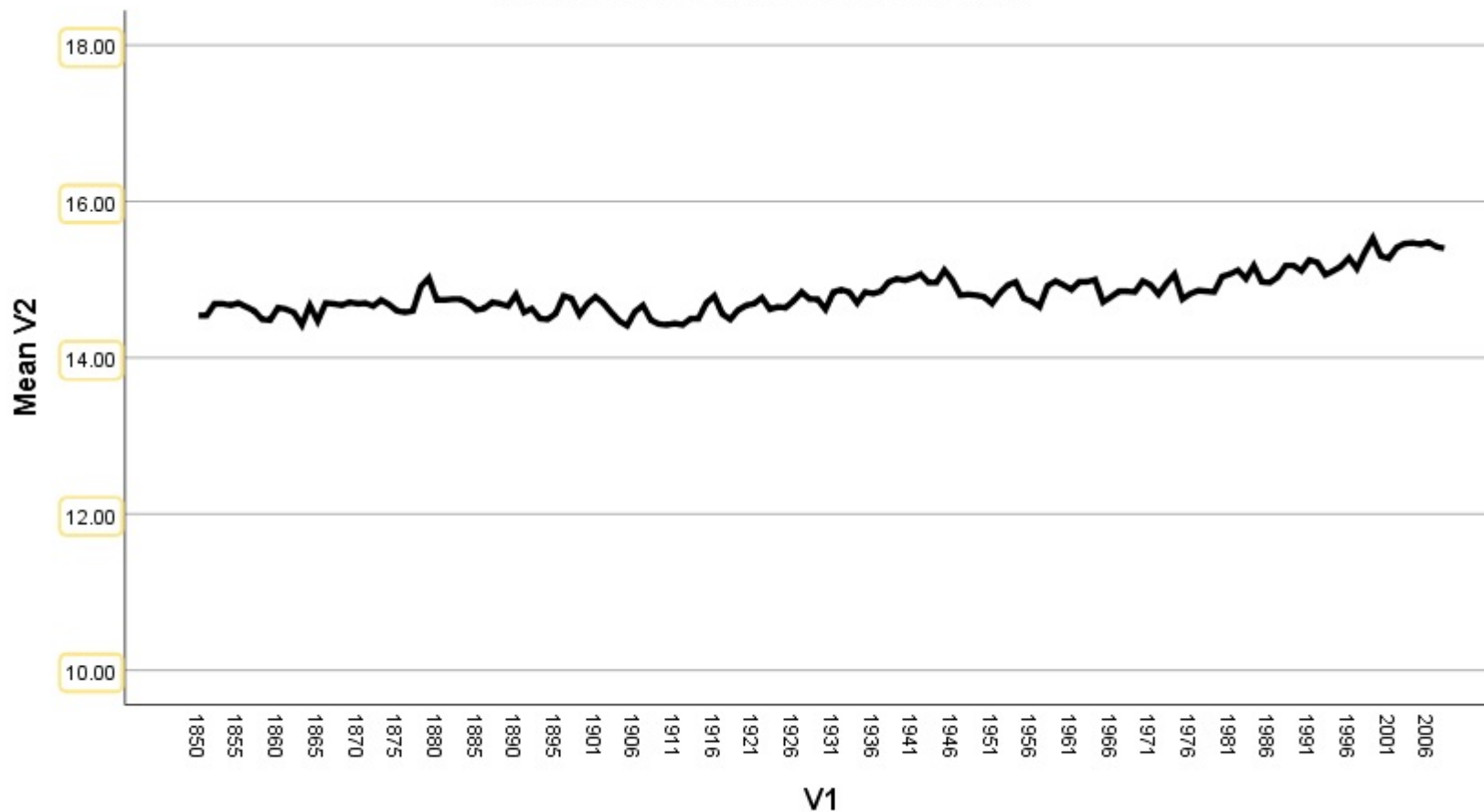
	V1	V2	var	var	var	var	var
1	1850	14.54					
2	1851	14.54					
3	1852	14.69					
4	1853	14.69					
5	1854	14.67					
6	1855	14.70					
7	1856	14.65					
8	1857	14.60					
9	1858	14.49					
10	1859	14.48					
11	1860	14.64					
12	1861	14.62					
13	1862	14.58					
14	1863	14.42					
15	1864	14.67					
16	1865	14.47					
17	1866	14.70					
18	1867	14.69					
19	1868	14.67					
20	1869	14.71					
21	1870	14.69					
22	1871	14.70					
23	1872	14.66					

NOAA DATA PLOT



SAME DATA FROM THE NOAA CHART PLOTTED AT 2 DEG INTERVALS

NOAA DATA PLOT SCALED TO 2 DEG



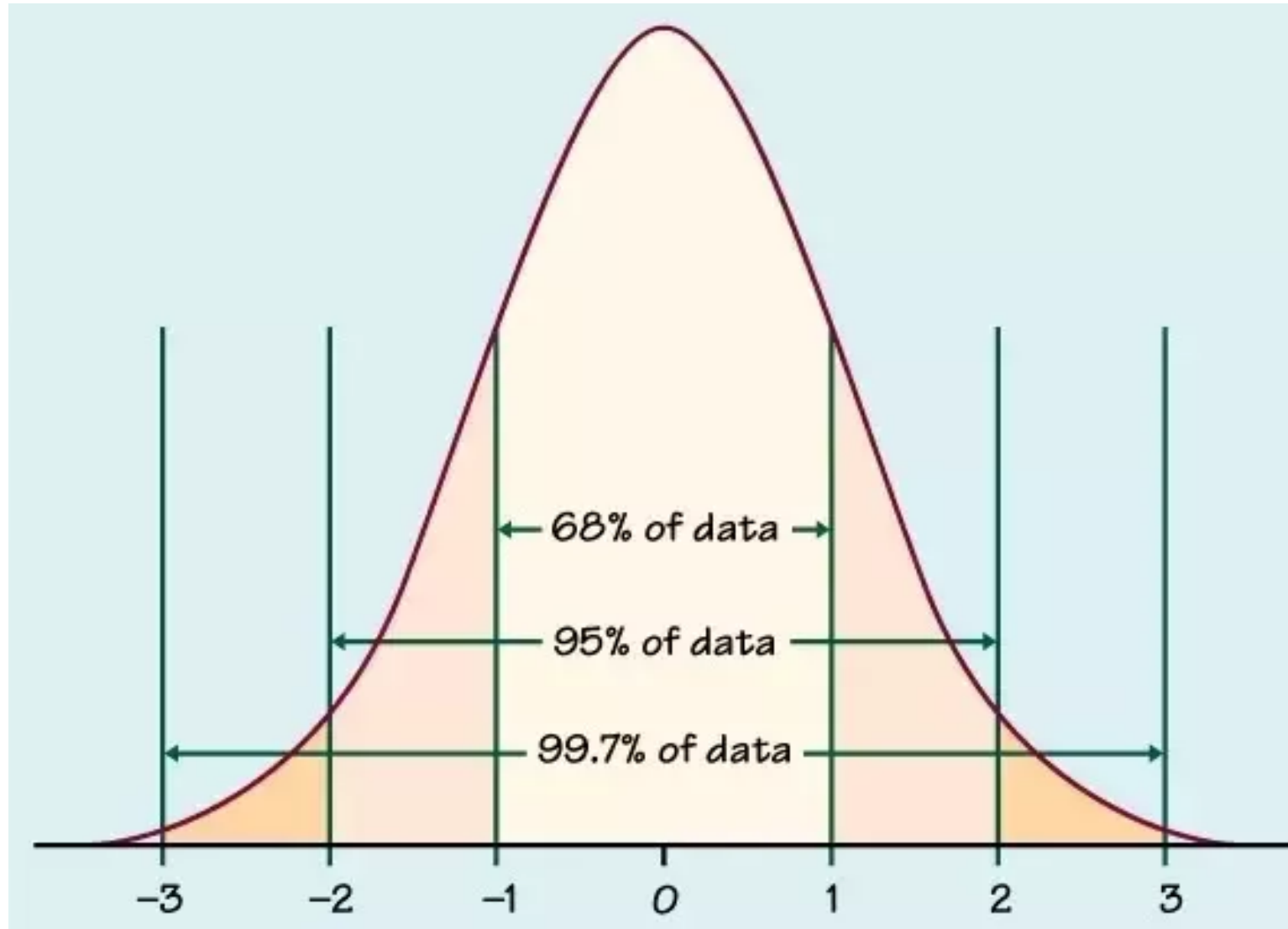
Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
V2	159	100.0%	0	0.0%	159	100.0%

Descriptives

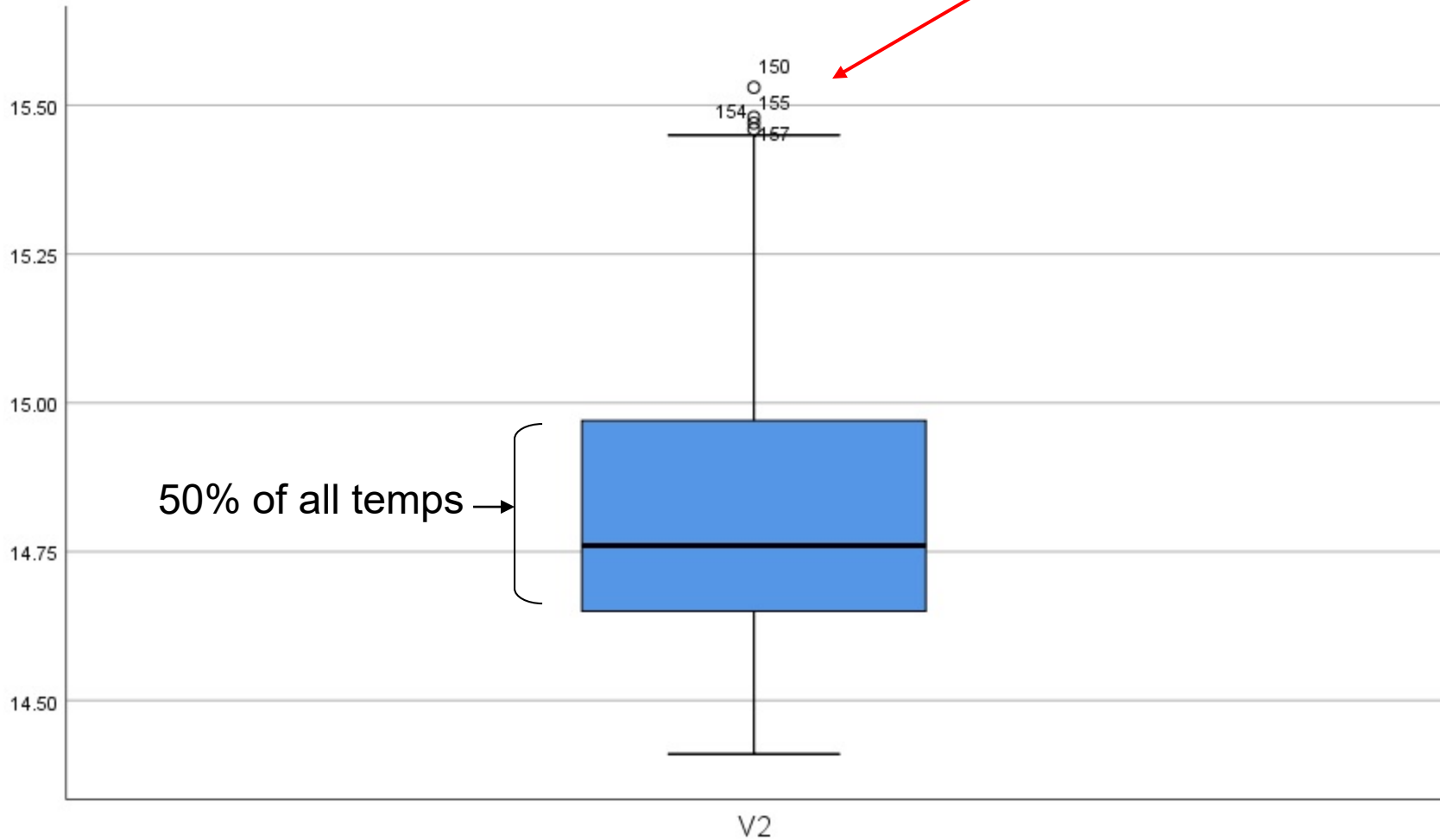
		Statistic	Std. Error
V2	Mean	14.8196	.02016
	95% Confidence Interval for Mean	Lower Bound	14.7798
		Upper Bound	14.8594
	5% Trimmed Mean	14.8058	
	Median	14.7600	
	Variance	.065	
	Std. Deviation	.25420	
	Minimum	14.41	
	Maximum	15.53	
	Range	1.12	
	Interquartile Range	.32	
	Skewness	.791	.192
	Kurtosis	.223	.383

That means that 68% of all the world temps are ± 1 of one deg C?
And, that 95% of all the worlds temps are ± 2 of one deg C?

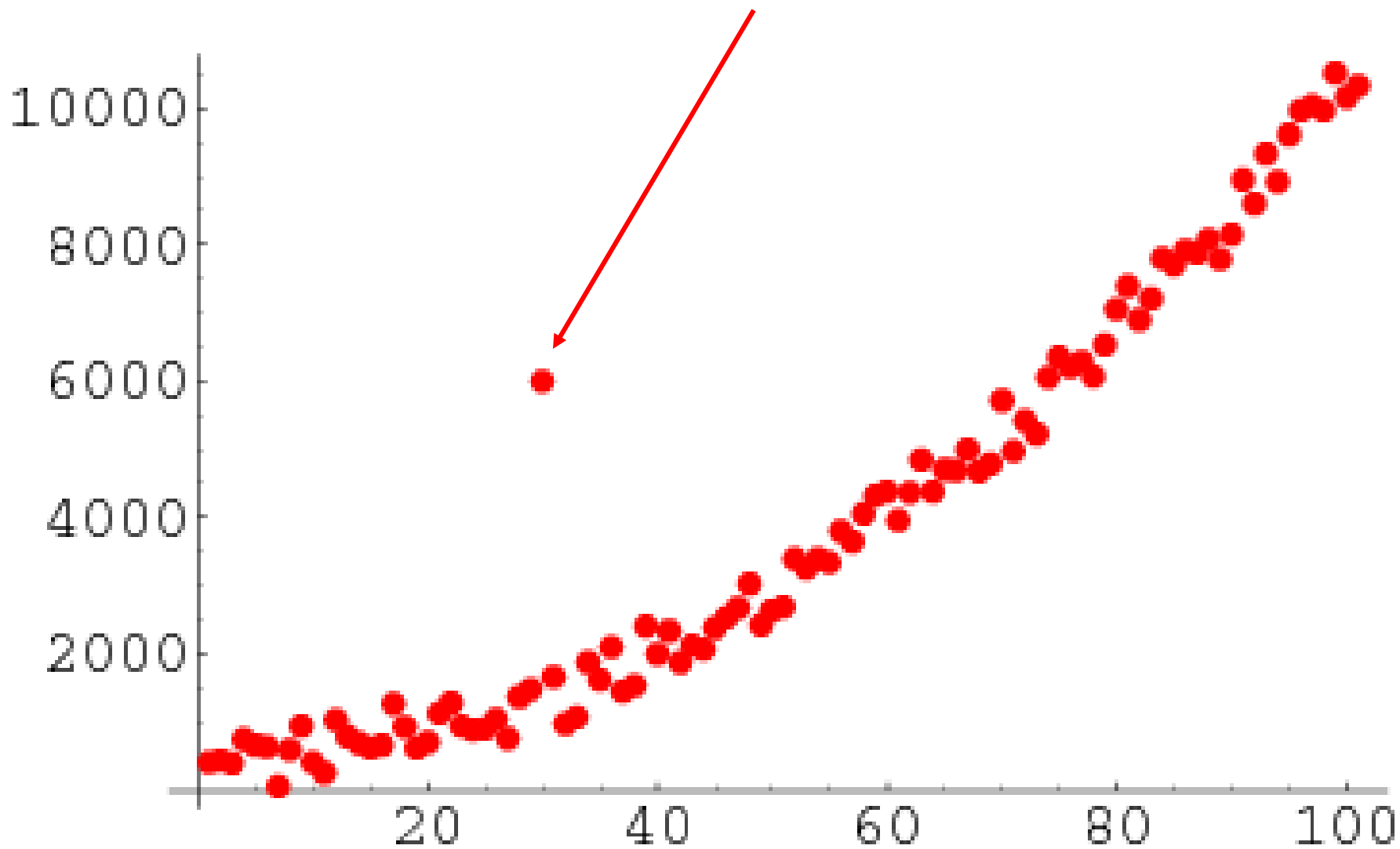


BOX PLOT OF NOAA

These are OUTLIERS.

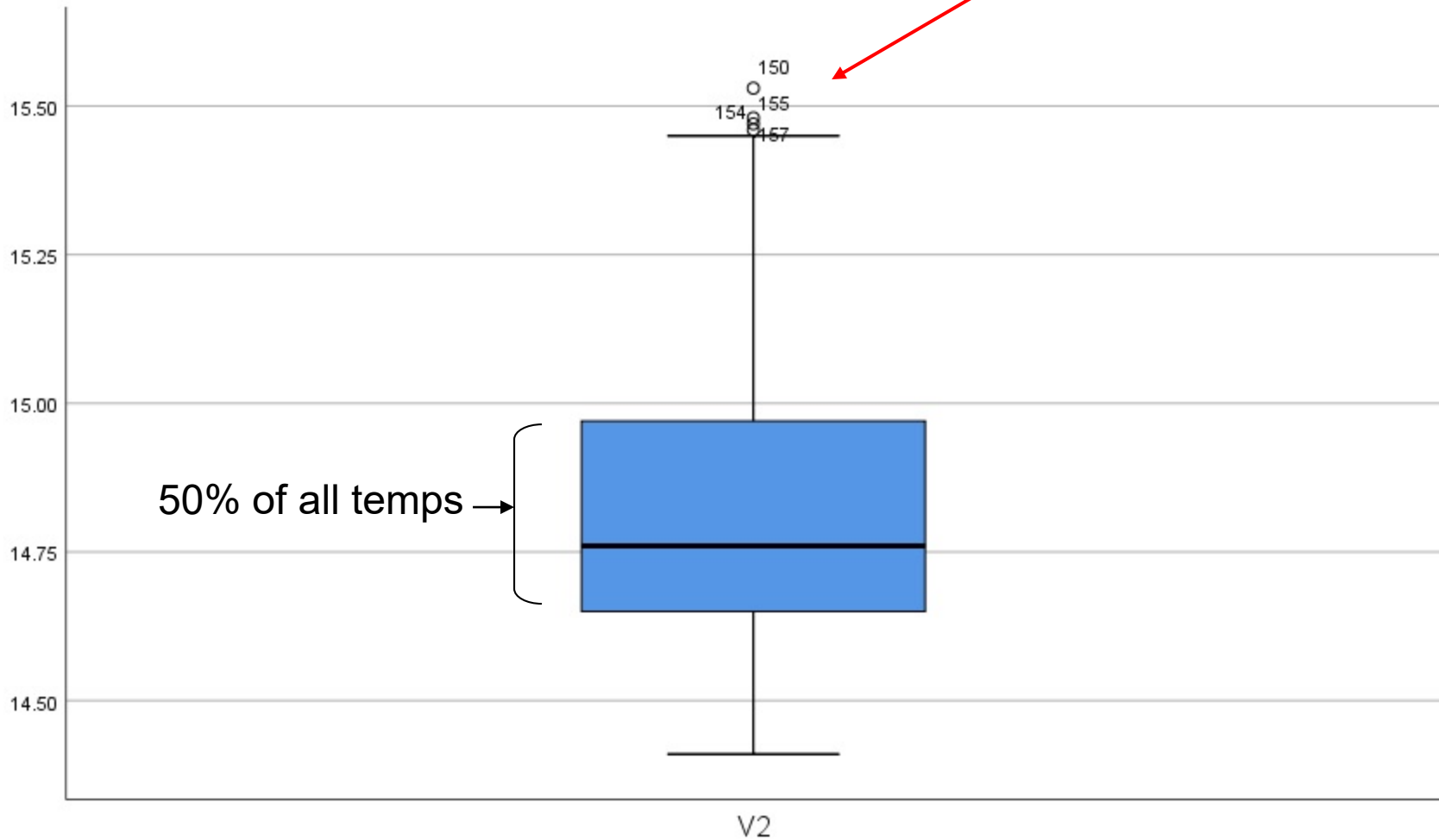


This is an outlier.



BOX PLOT

These are OUTLIERS



MASSIVE EXPLOSIONS SHAME AND BLAME

LIARS!

PROSECUTION!



CLIMATE GATE!!

FIRINGS!

Back to our stuff ...

- They admitted they lied for
 - 1998 to 2008
 - Admitted the last 16 years “pause in warming”
- There were many firings
- Many quit
- Some imprisoned
- Lives were ruined
- Credibility is shot (That could be dangerous!)
- Current position diverges between
COMPUTER MODEL
DATA DRIVEN

A blue-tinted photograph of a calm sea at night. In the distance, a single light is visible on the horizon, creating a small reflection on the water's surface. The overall mood is serene and mysterious.

USE A REAL WORLD EXAMPLE

WARNING: NOT GOING TO PROVE OR
DISPROVE THIS EXAMPLE

JUST WHEN THEY *TRY* TO DECEIVE

KNOWLEDGE LIE (JUMP STRAIGHT TO "WISDOM")

"97% of all Climate Scientists agree."

**Repeat information level.
Repeat data level.**

"Look, can't you see it for yourself, man?!?"



"We must shut down all COAL plants!"

"We need CAP/TRADE taxation!"

"We need CLIMATE accords!"

"We must dictate electric cars, etc.!"

KNOWLEDGE LIE (JUMP STRAIGHT TO "WISDOM")

LYING?

PhDs? **Some** (We know better)
1/3 do 1/3 don't 1/3 not sure

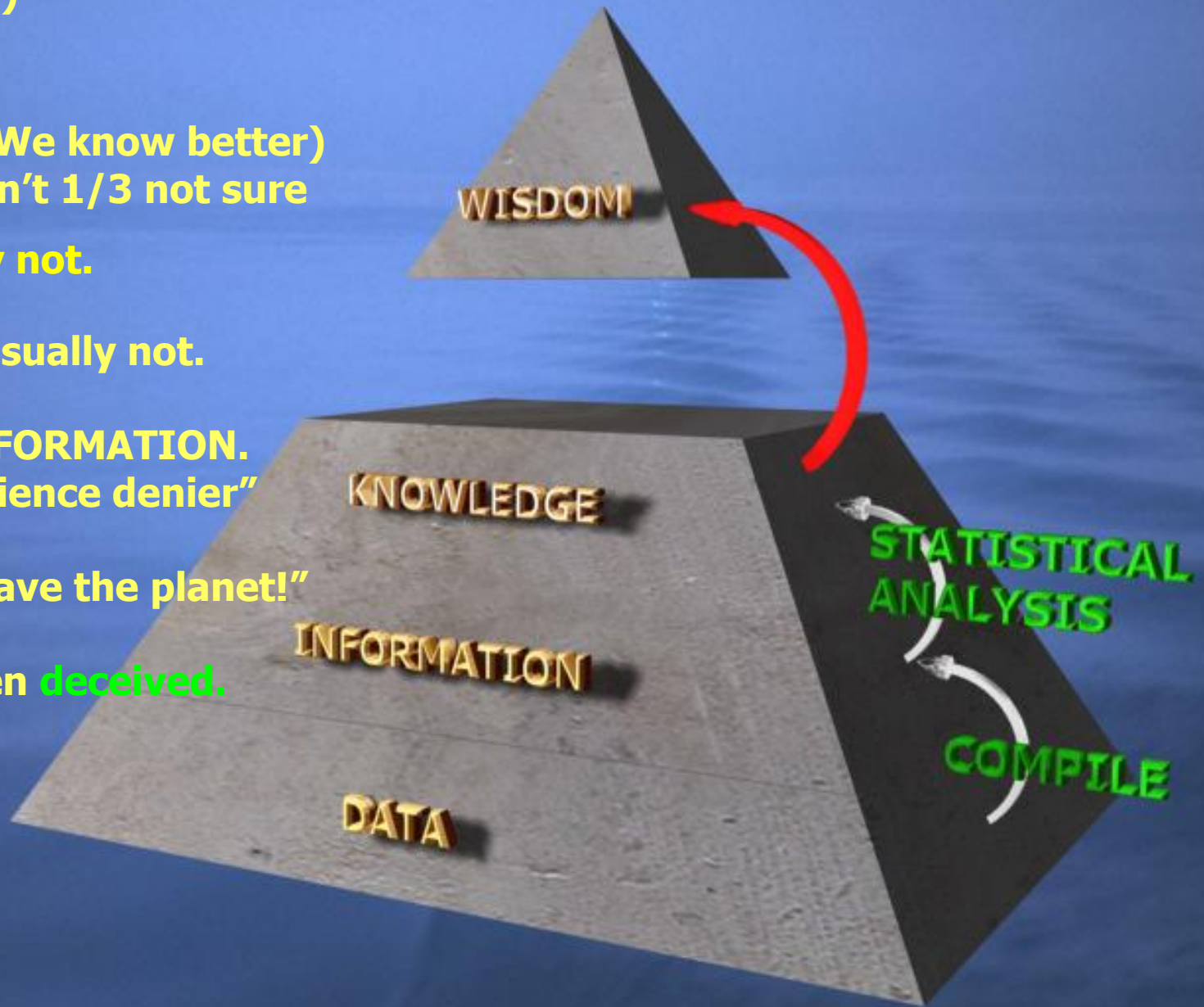
News? **Usually not.**

Individuals? **Usually not.**

Yelling the **INFORMATION.**
Obligatory "science denier"
... etc.

"We need to save the planet!"

Most have been **deceived.**



“Sir/Ma’am,

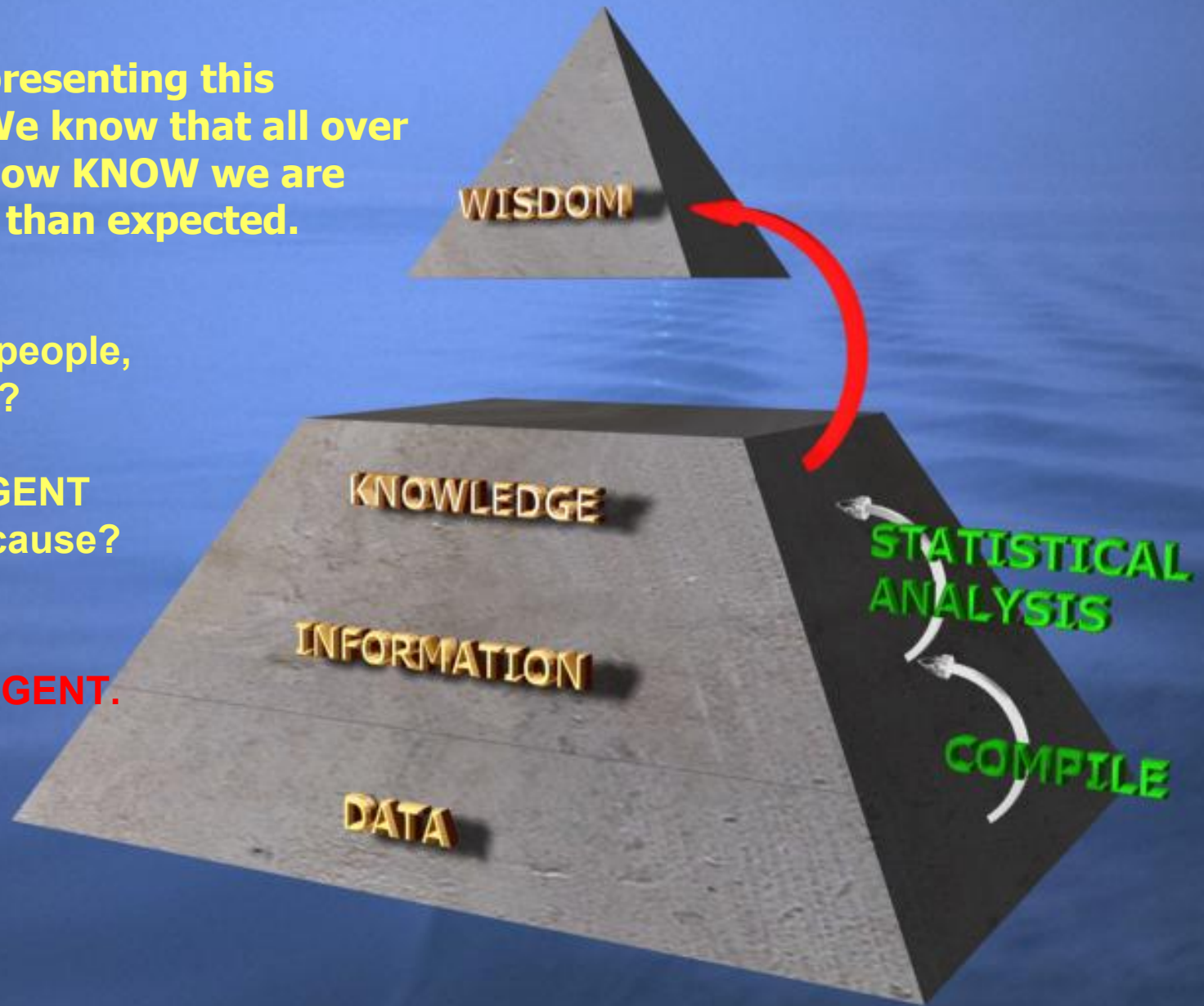
Thank you for presenting this **KNOWLEDGE**. We know that all over the world, we now **KNOW** we are warming faster than expected.

However, we as people, are we sure why?

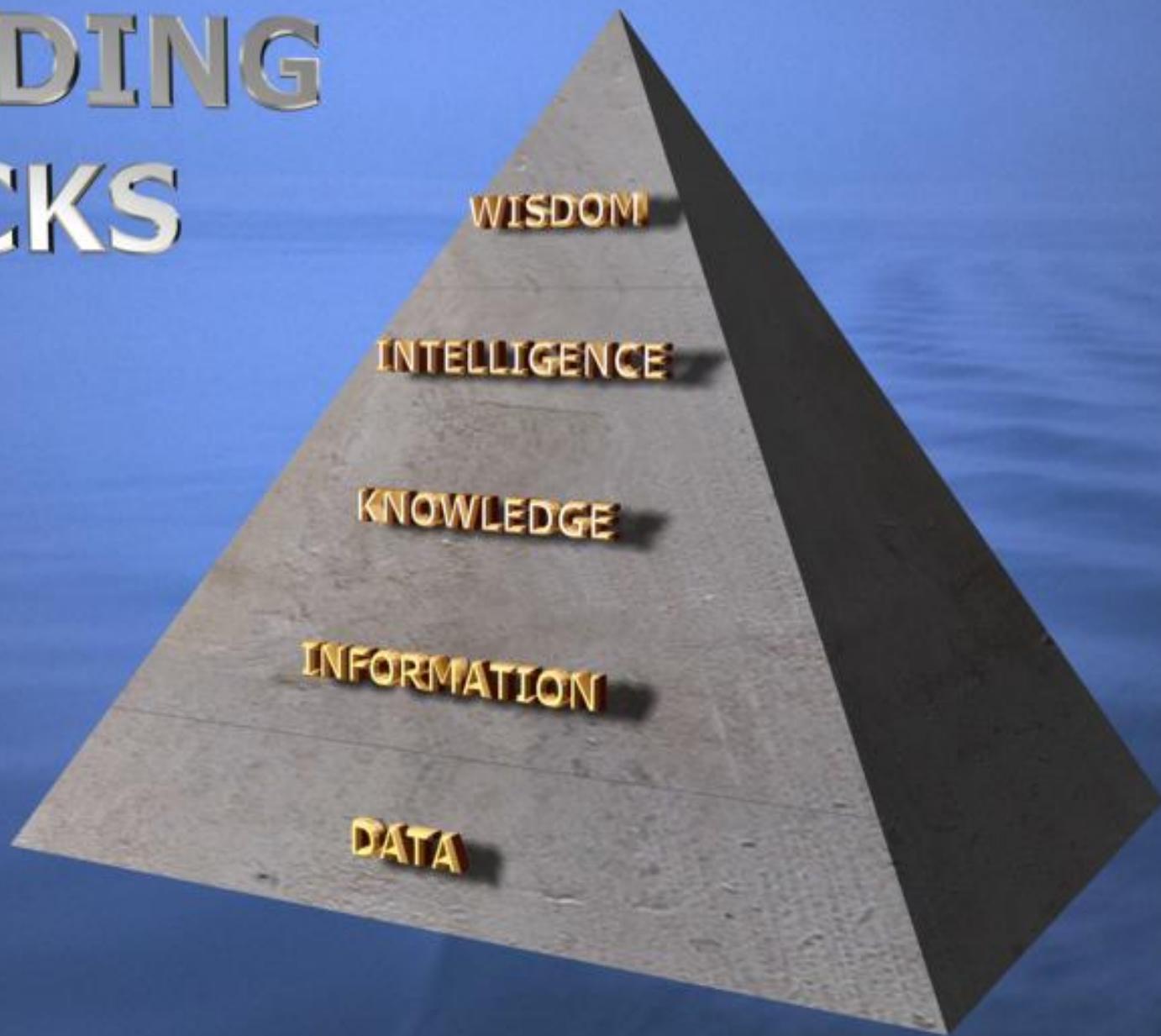
Are we **INTELLIGENT** to be certain of cause?

Let’s be **INTELLIGENT**.

We analyze the **KNOWLEDGE**.”

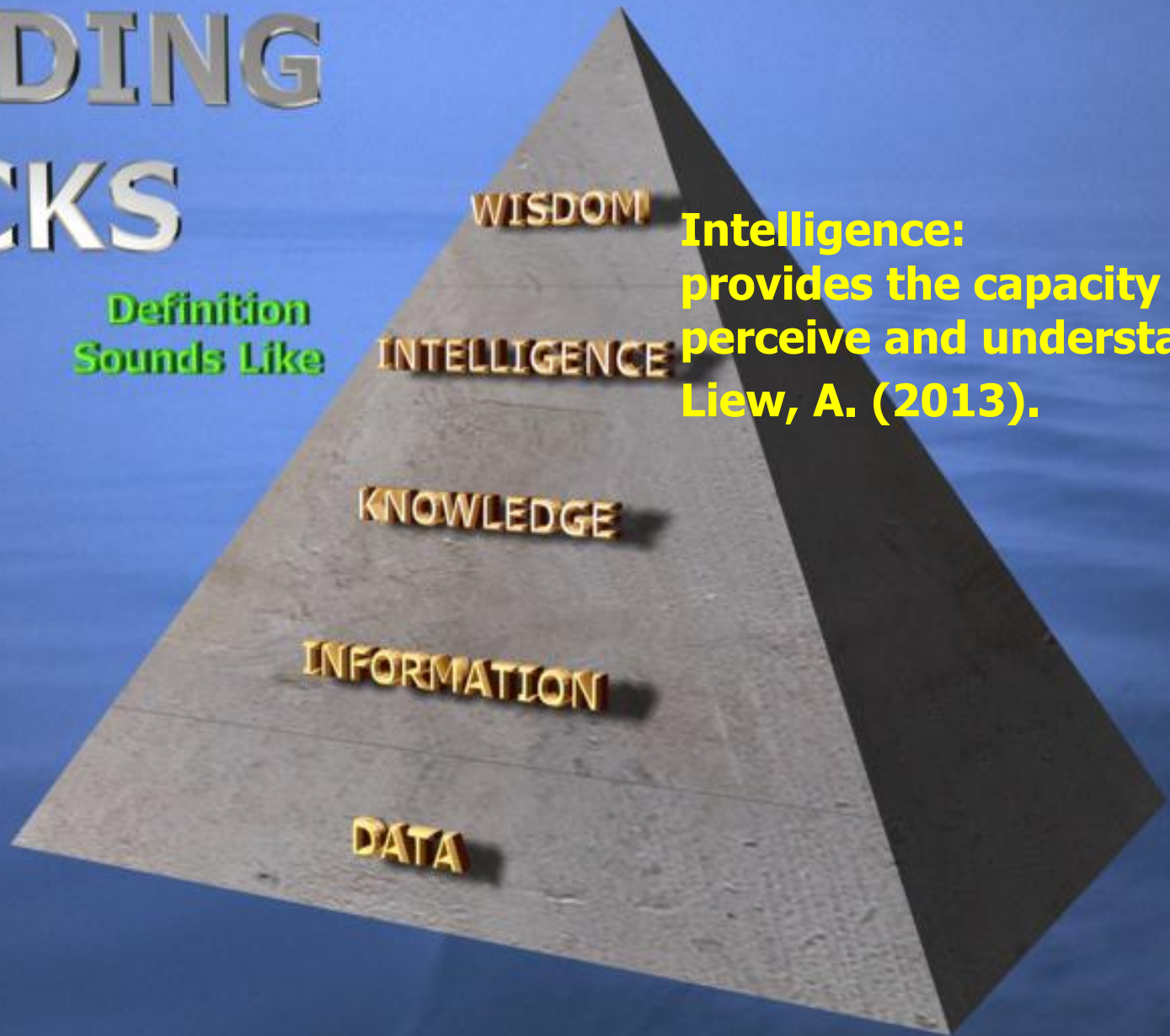


BUILDING BLOCKS



BUILDING BLOCKS

Definition
Sounds Like

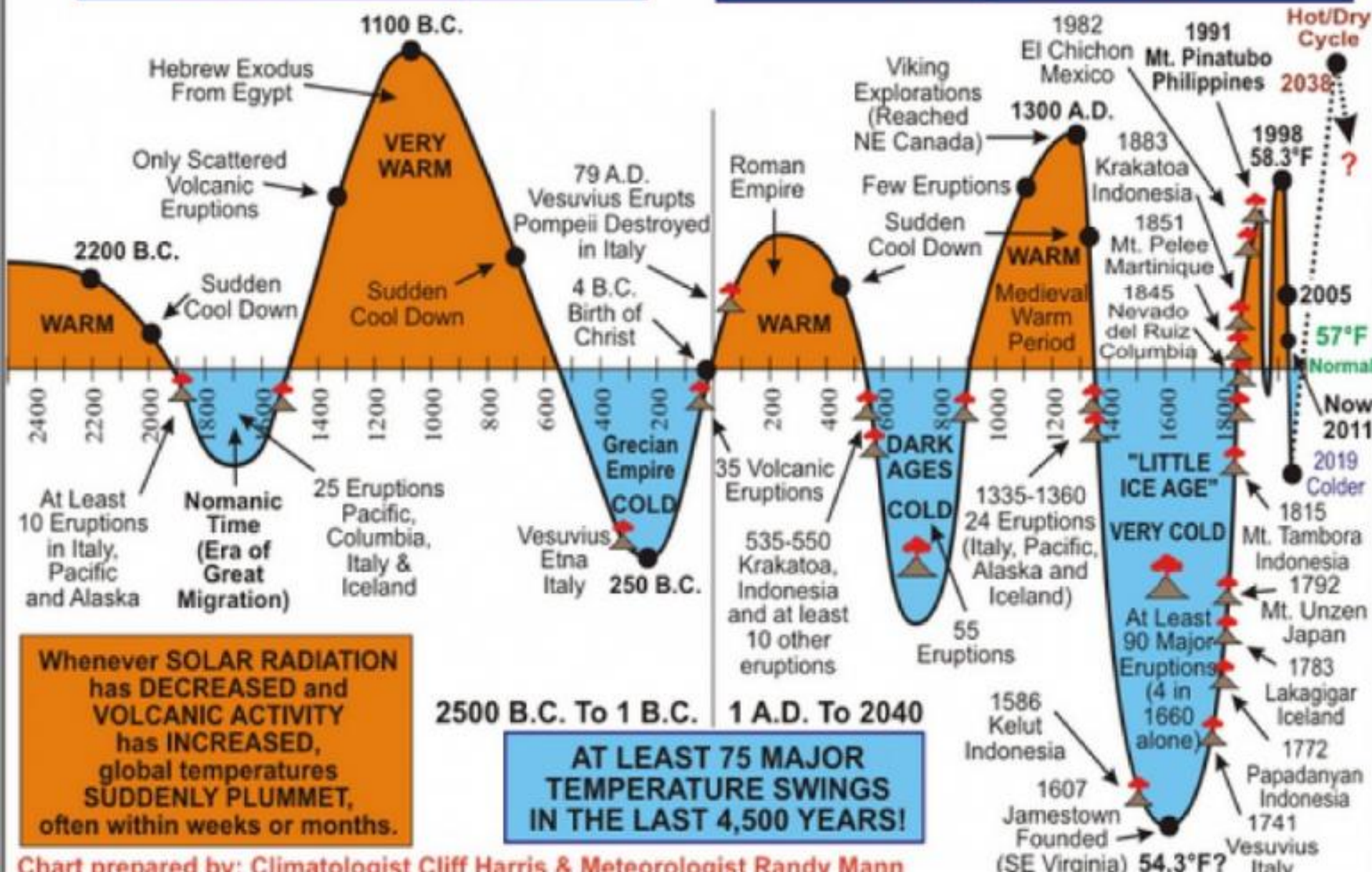


Intelligence:
provides the capacity to
perceive and understand
Liew, A. (2013).

GLOBAL TEMPERATURES (2500 B.C. TO 2040 A.D.)

MAJOR GLOBAL COOLING SINCE LATE 2007
A 0.9 Degree Fahrenheit drop in global temperatures from late 2007 to February 2009.

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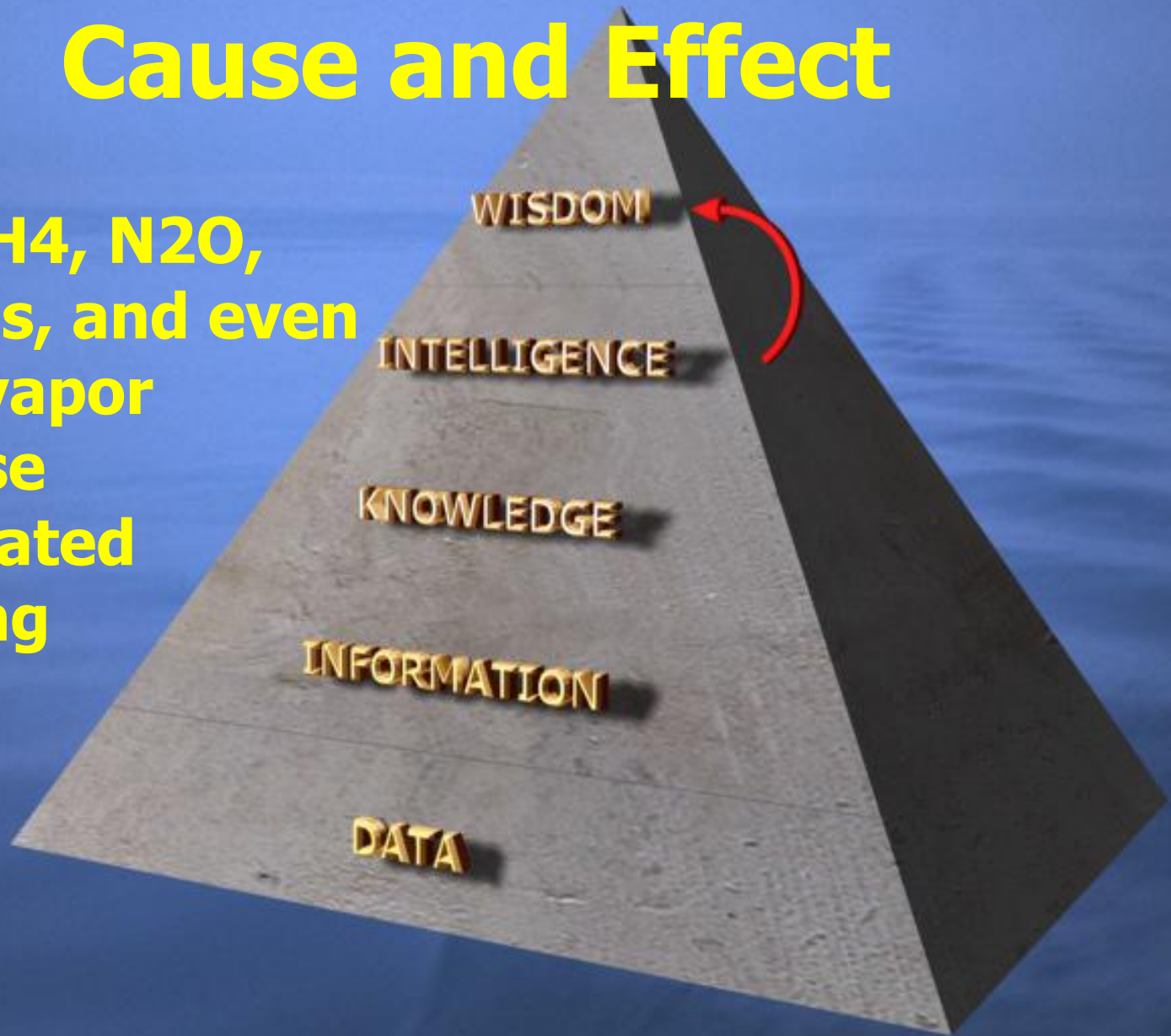
Whenever SOLAR RADIATION has DECREASED and VOLCANIC ACTIVITY has INCREASED, global temperatures SUDDENLY PLUMMET, often within weeks or months.

AT LEAST 75 MAJOR TEMPERATURE SWINGS IN THE LAST 4,500 YEARS!

Chart prepared by: Climatologist Cliff Harris & Meteorologist Randy Mann

Cause and Effect

- CO₂, CH₄, N₂O, aerosols, and even water vapor all cause accelerated warming



INTELLIGENCE **LIE** (JUMP STRAIGHT TO "WISDOM")

Avoid it all together.

Repeat the KNOWLEDGE lies.
Repeat the INFORMATION lies.
Repeat the DATA lies.

"We must shut down all COAL plants!"

"We need CAP/TRADE taxation!"

"We need CLIMATE accords!"

"We must dictate electric cars, etc."



INTELLIGENCE LIE
(INTENTIONAL ACT)
JUMP STRAIGHT TO "WISDOM"

Who knows who is lying here?

Does the absurdity of the "solution" achieve a political aim?

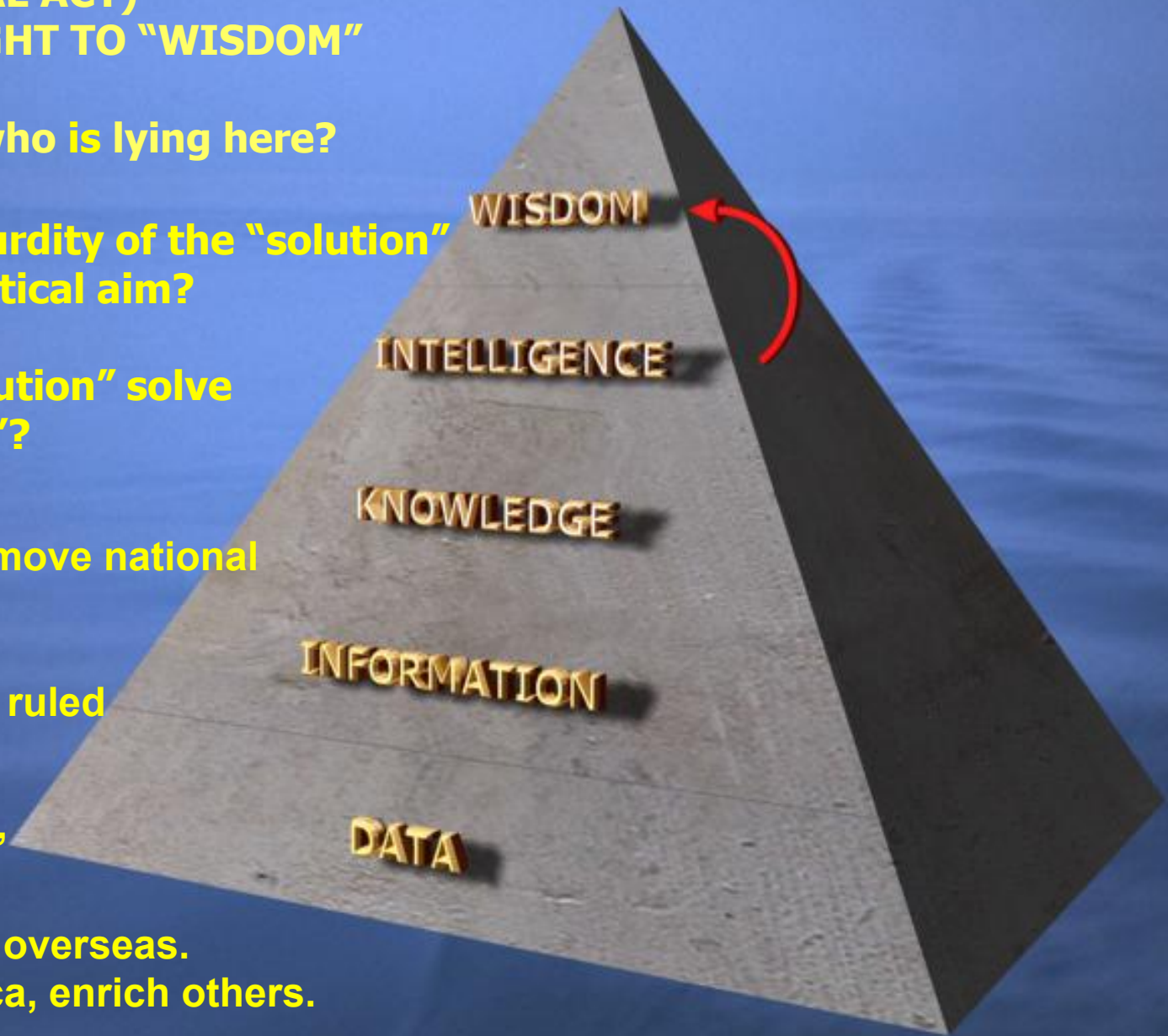
Does the "solution" solve the "problem"?

We need to remove national sovereignty.

We need to be ruled by the UN.

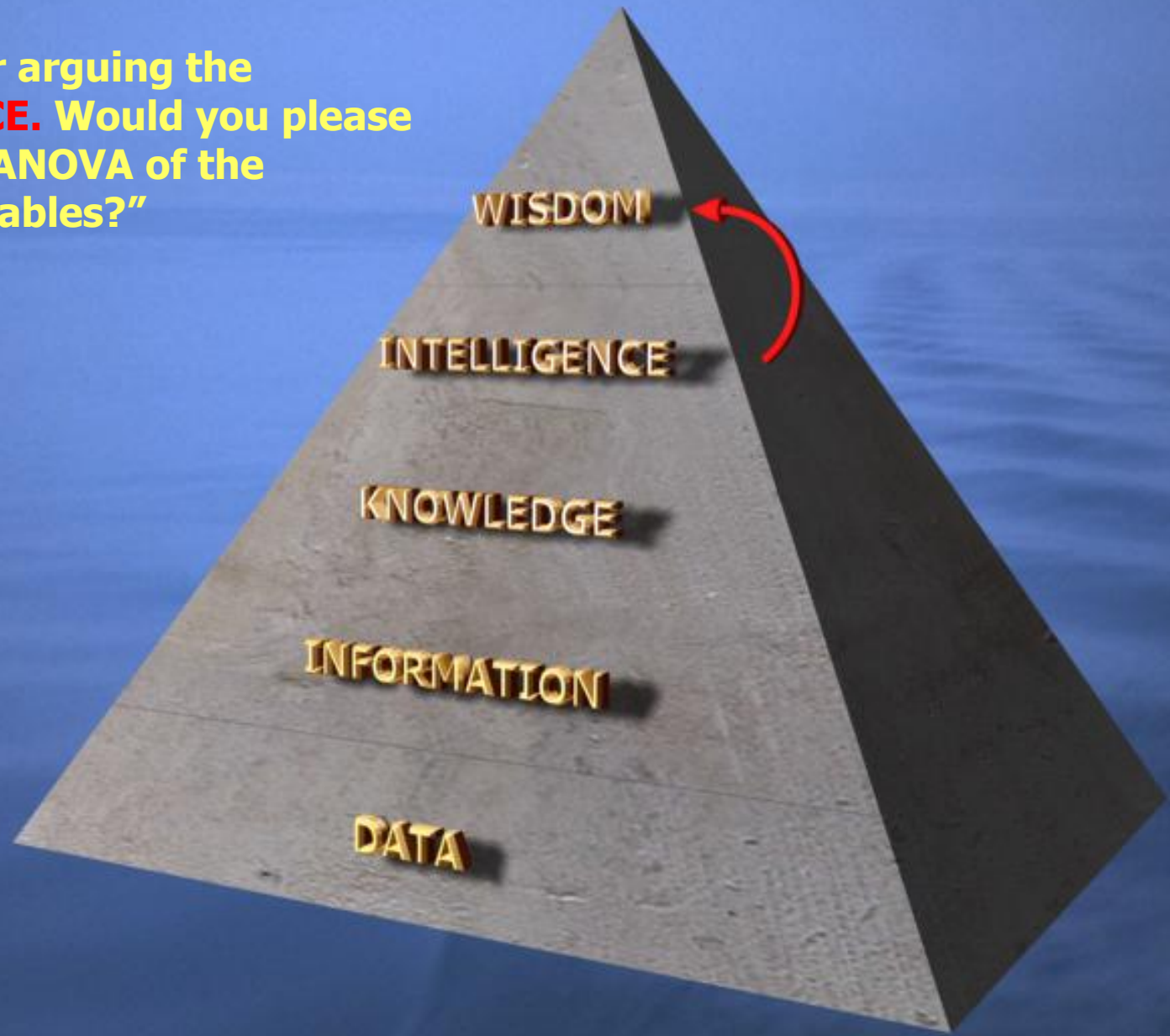
"Communism"

Send industry overseas.
Punish America, enrich others.



“Sir/Ma’am,

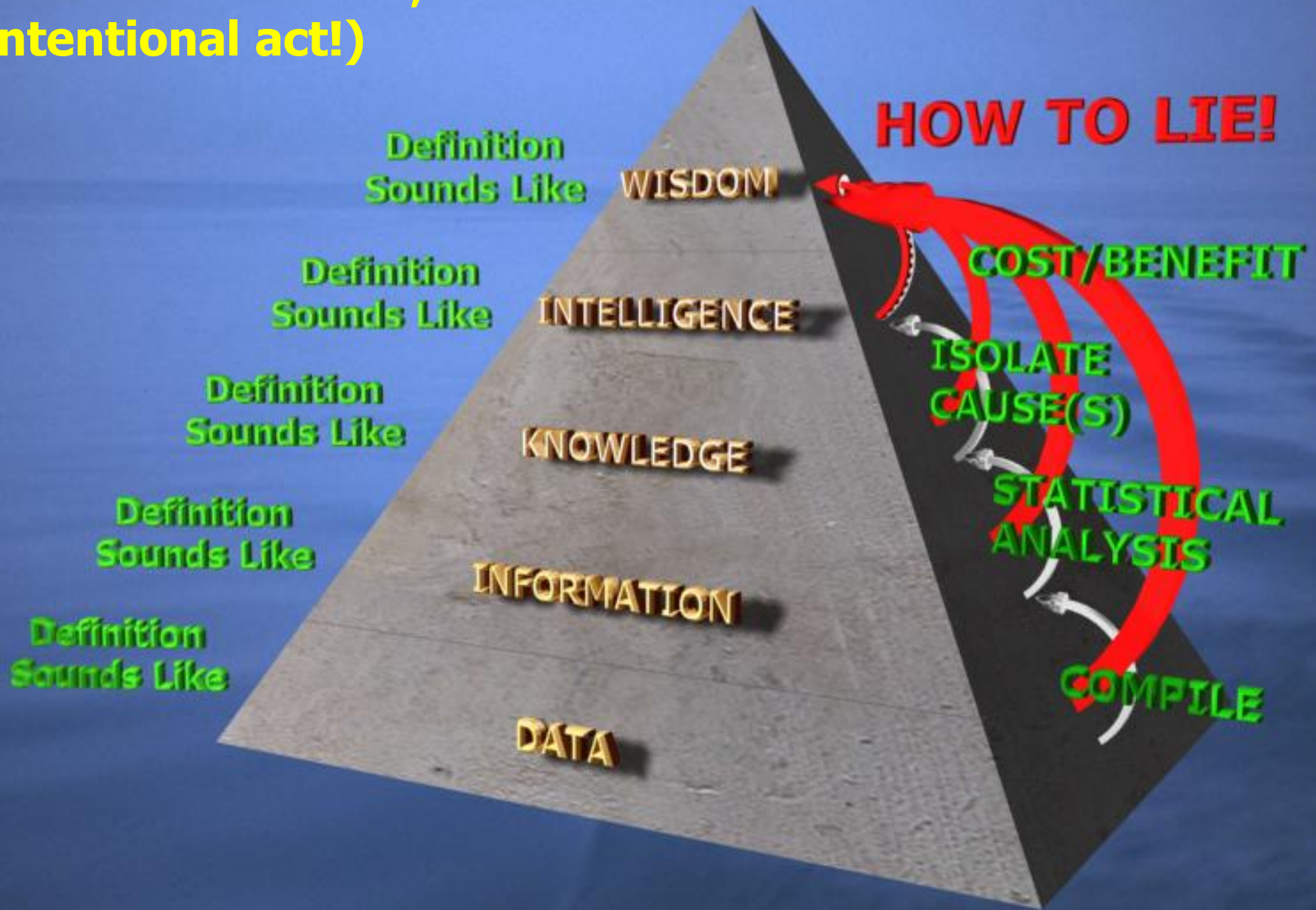
Thank you for arguing the **INTELLIGENCE**. Would you please explain your ANOVA of the potential variables?”



A blue-tinted photograph of a calm sea with a small boat on the horizon. The text "LET'S WRAP THIS THING UP!!" is overlaid in yellow.

LET'S WRAP THIS THING UP!!

All the levels of lies, for ANY science (Intentional act!)



**Most of the lies, for ANY science
DATA and INFORMATION lies
(Intentional act? Depends)**

How to be sure?

“Sir/Ma’am, would you please talk me through the statistical test you used to determine significant departure from expected temps?”

“Would you please show me the analysis of variance of the variables in consideration to prove CO2 is the cause?”



How to be sure?

“Sir/Ma’am, would you please talk me through the statistical test (s) used to determine statistically significant departure from expected temps?”

“Would you please show me the analysis of variance of the variables in consideration to prove CO₂ is the cause?”

“How will one world government solve this problem?”

WOW!

Why talk science in church?

Fake binary to deceive and control

Next, is evolution SCIENTIFICALLY DEAD?

RAD5HELICASE AND CANCER

