

COVID – 19 VS ENVIRONMENT OR AIR POLLUTION (E OR AP)



by

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L. N. M. Infra Projects Pvt. Ltd. BHOPAL (MP)

Present System of Environment

- **What was Happening...!!!**
- **Day to Day Working Effects...!!!**
- **Remedial Actions...!!!**
- **Future Effects of EP...!!!**
- **Legal Provisions Regarding EP...!!!**

What was happening earlier...!!!



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Continued....

What was happening earlier...!!!



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Continued....

What was happening earlier ...!!!



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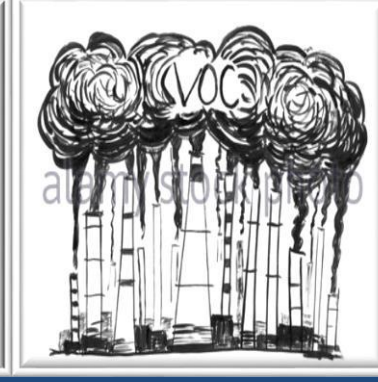
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What was happening earlier...!!!



What was happening earlier...!!!



What was happening earlier...!!!



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What was happening earlier...!!!



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Continued....

What was happening earlier...!!!

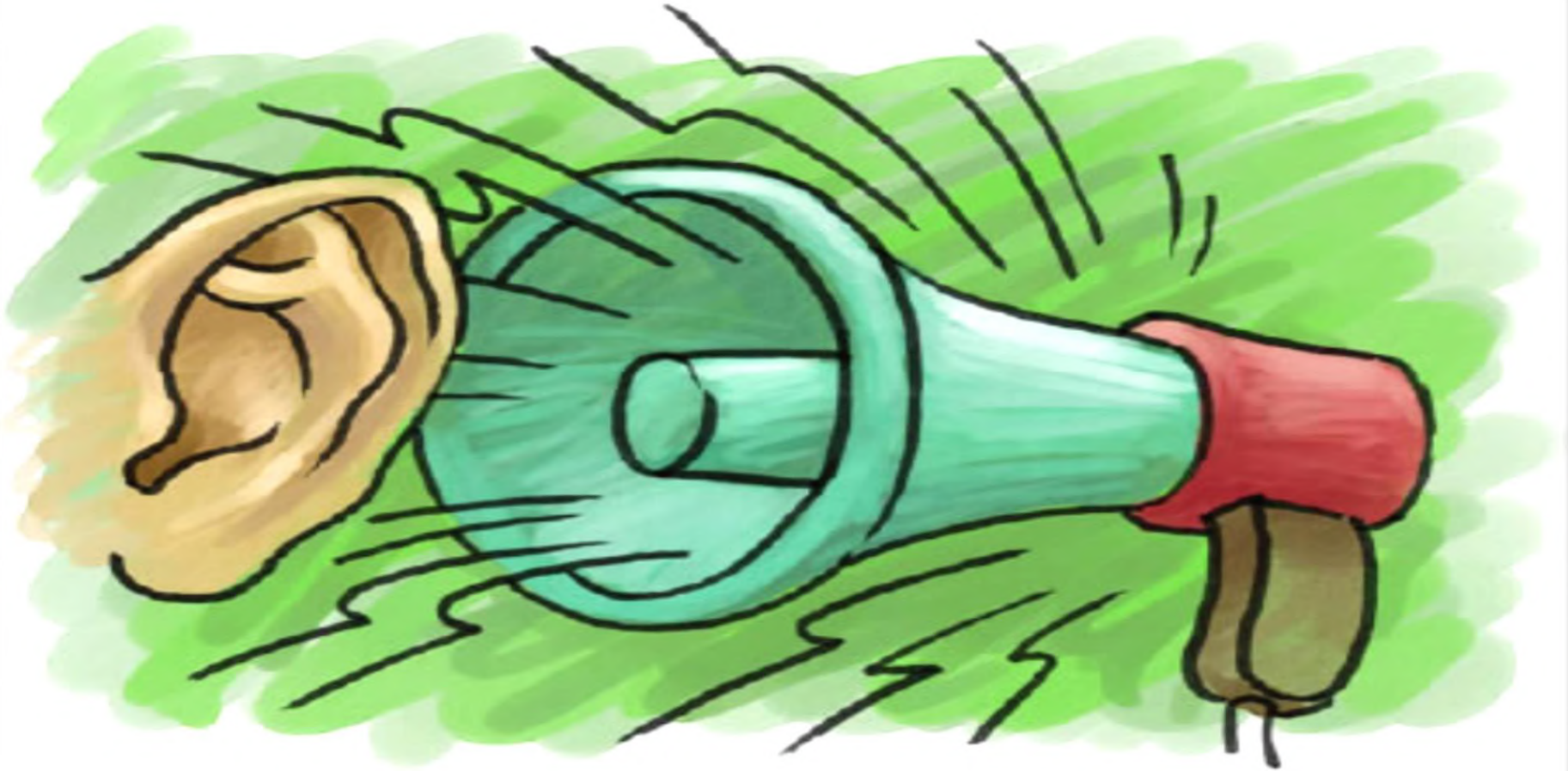


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Continued....

What was happening earlier...!!!



What was happening earlier...!!!

नवभारत टाइम्स / नई दिल्ली / 14 फरवरी 2013

एयर पलूशन से खतरे की घंटी

वीरेंद्र वर्मा ॥ नई दिल्ली

देश में हवा इतनी जहरीली हो गई है कि यह मौत का एक बड़ा कारण बनती जा रही है। ग्लोबल बर्डन ऑफ डिजीज (जीबीडी) की रिपोर्ट के मुताबिक, पिछले 13 साल में भारत में एयर पलूशन से मरने वालों की तादाद 6 गुना से ज्यादा बढ़ गई है। 2000 में जब यह रिपोर्ट आई थी तो एयर पलूशन से मरने वालों की संख्या करीब 1 लाख थी। एनवायर्नमेंटल साइंटिस्ट्स के मुताबिक, देश में मौत की 5वीं बड़ी वजह एयर पलूशन है। हाई ब्लड प्रेशर, इंडोर एयर पलूशन, स्मोकिंग और कुपोषण के साथ-साथ एयर पलूशन के कारण समय से पहले ही लोगों की मौतें हो रही हैं। सेंटर फॉर साइंस एंड एनवायर्नमेंट (सीएसई) की वर्क शॉप में बुधवार को साइंटिस्ट ने यह रिपोर्ट रखी।



6.2

लाख लोगों की असमय मौत एयर पलूशन से भारत में पिछले 13 साल में

300%

तक बढ़ी एयर पलूशन से मरने वालों की तादाद पूरी दुनिया में

क्या कहते हैं दिल्ली वाले

सीएसई ने दिल्ली में भी एक सर्वे कराया था। लोगों ने कहा कि पिछले 2 महीने के अंदर प्रदूषण में बढ़ोतरी फील हुई है। सीएसई की इग्जेक्यूटिव डायरेक्टर अनुमिता राय चौधरी ने सुझाव दिया कि प्राइवेट वाहनों पर कंट्रोल करना होगा। पूरे देश में एयर क्वालिटी के मानक तय करने पड़ेंगे और उन पर सख्ती से अमल करना पड़ेगा, वरना हालात और बिगड़ जाएंगे।

79% ने कहा, बढ़ते वाहनों की संख्या पलूशन का कारण 74% के मुताबिक, जहरीली हवा सांस की बीमारियों का बड़ा कारण

What was happening earlier...!!!



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What was happening earlier...!!!



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What was happening earlier...!!!



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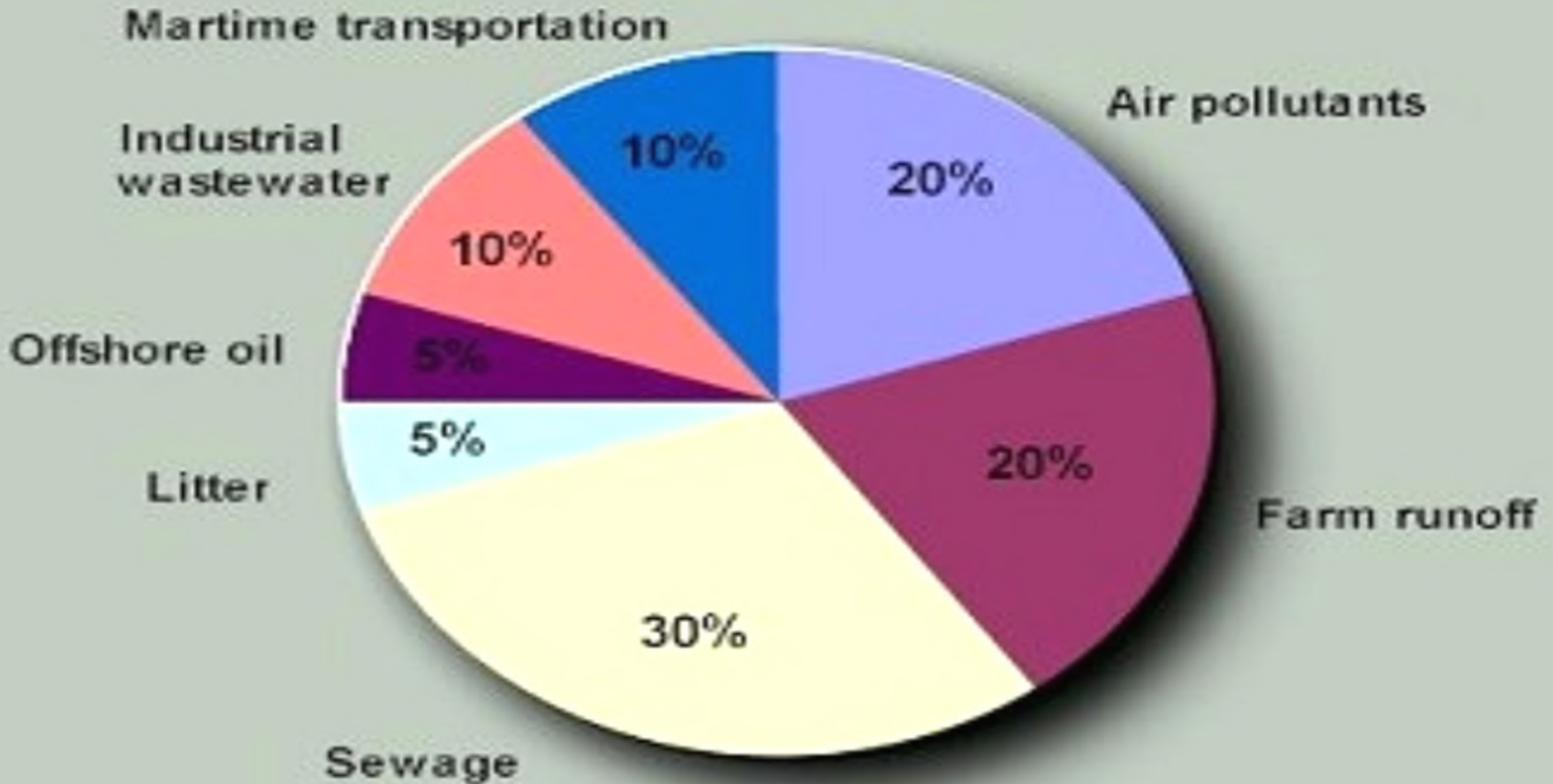
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What was happening earlier...!!!

Pollutants Entering the Oceans



Day to Day Working Effects



Day to Day Working Effects



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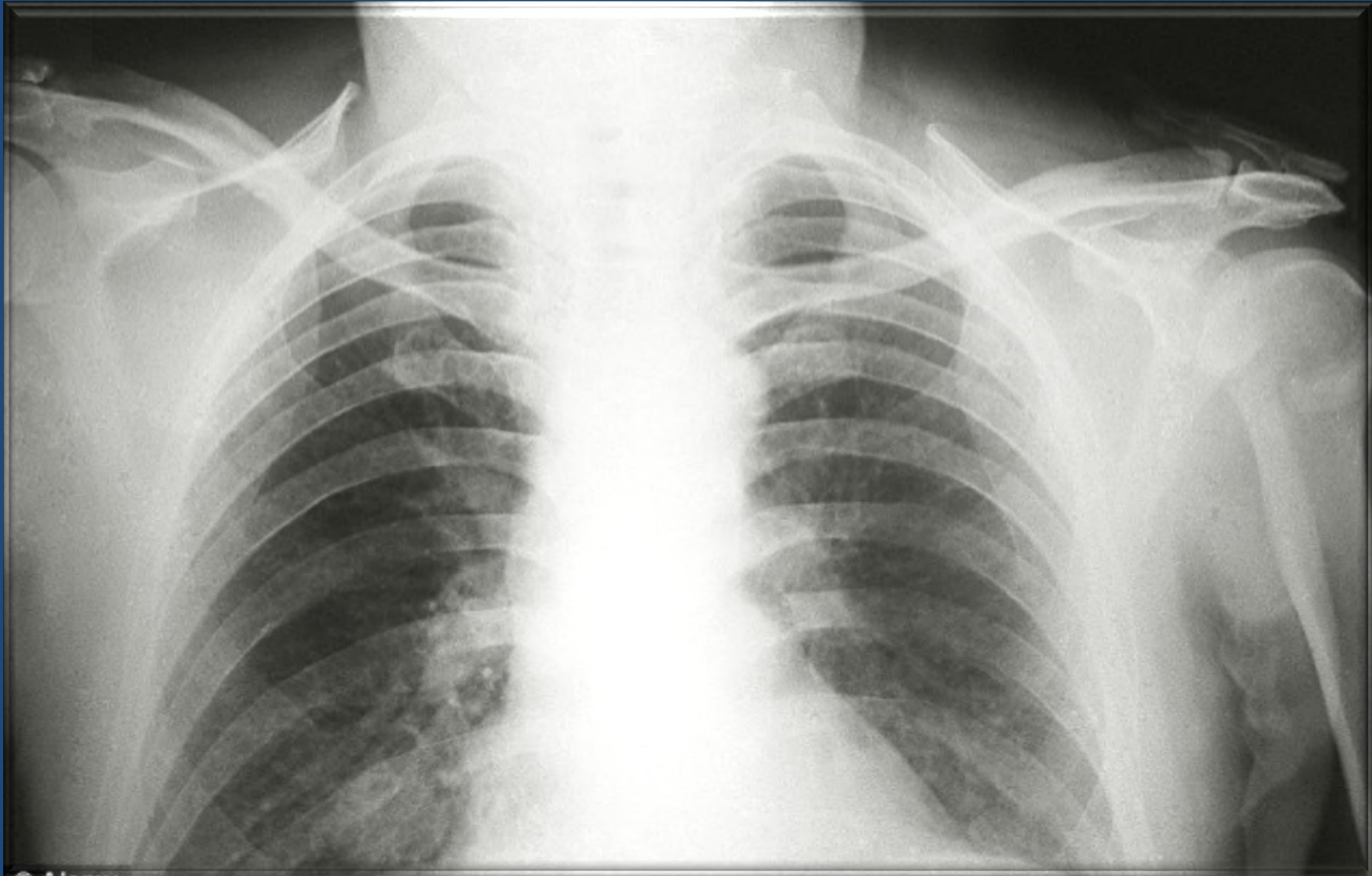
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Day to Day Working Effects



Day to Day Working Effects



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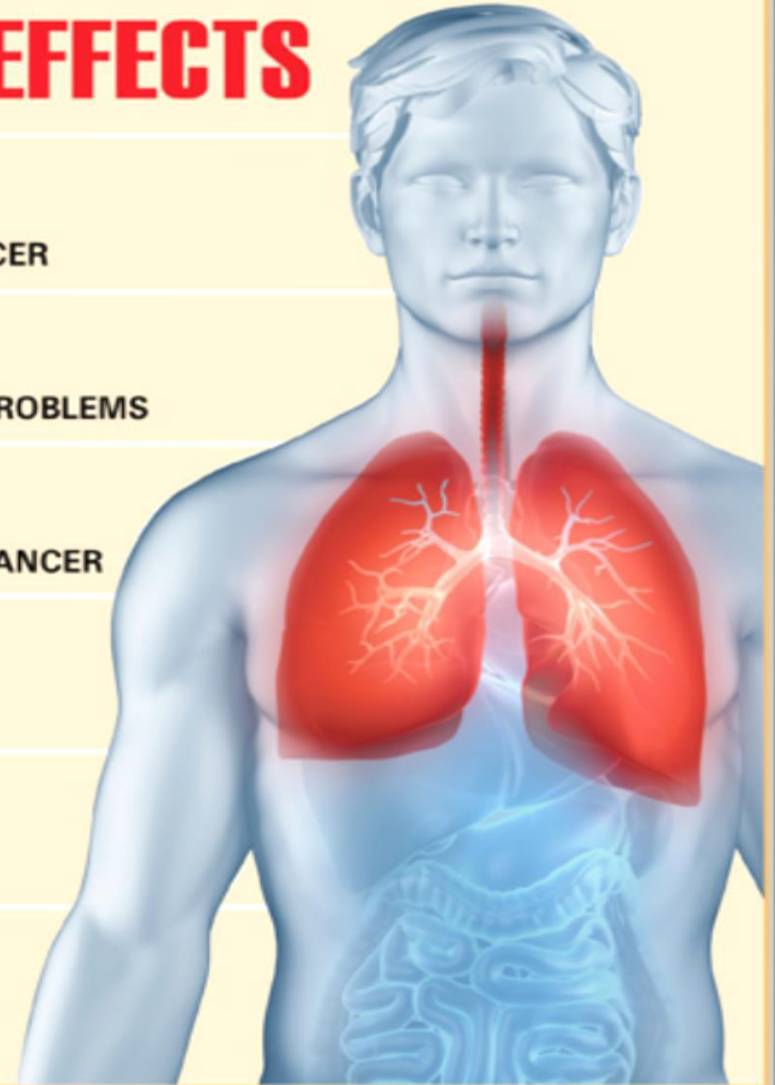
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Day to Day Working Effects

POLLUTANTS AND THEIR EFFECTS

- 1** **POLLUTANT:** PESTICIDES
SOURCE: USE IN AGRICULTURE/ LANDSCAPING
POSSIBLE EFFECT: NERVE DAMAGE/ BIRTH DEFECTS/CANCER
- 2** **POLLUTANT:** LEAD
SOURCE: LEAD PAINT/GASOLINE
POSSIBLE EFFECT: BRAIN & KIDNEY DAMAGE/LEARNING PROBLEMS
- 3** **POLLUTANT:** PM
SOURCE: VEHICLE EXHAUST/FIRES/SMOKE
POSSIBLE EFFECT: RESPIRATORY DAMAGE/BRONCHITIS/CANCER
- 4** **POLLUTANT:** COAL DUST
SOURCE: COAL MINING BLACK
POSSIBLE EFFECT: LUNG DISEASE
- 5** **POLLUTANT:** BACTERIA
SOURCE: POOR SANITATION
POSSIBLE EFFECT: GASTROINTESTINAL INFECTION
- 6** **POLLUTANT:** NOISE
SOURCE: TRANSPORTATION/OTHER SOURCES
POSSIBLE EFFECT: HEARING LOSS



(SOURCE: WORLD HEALTH ORGANIZATION)

Remedial Actions GMT

Grow

More

Trees



[gty.im/
123305915](http://gty.im/123305915)

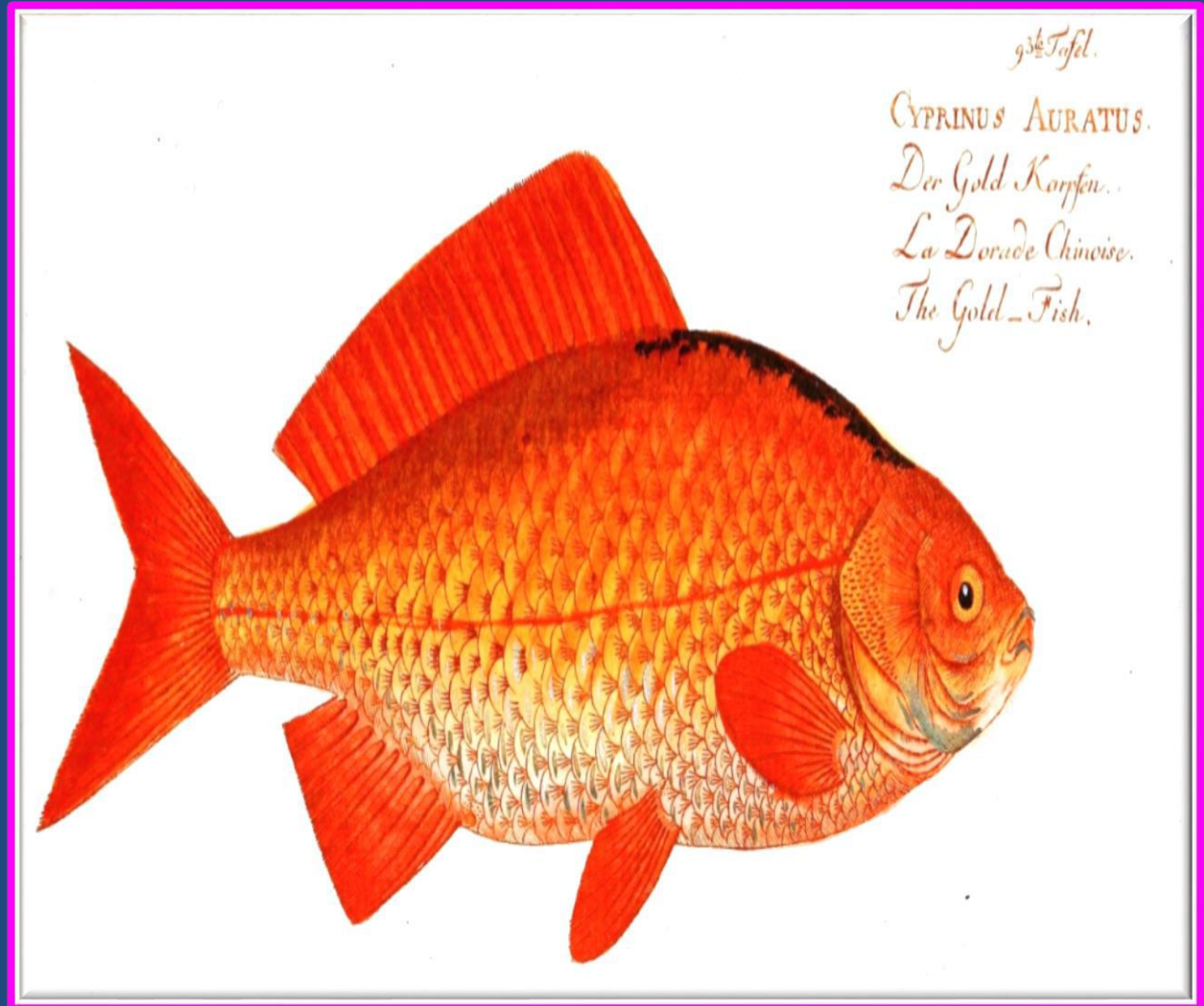
By
Steen Larsen

Remedial Actions PSF

Protect

Sea

Friends



Remedial Actions PNF

Protect

Nature

Friends



Remedial Actions SW

www.mmmindia.in

Save Water Every Drop Counts

Water is life ! It is a precondition for human, animal and plant life as well as an indispensable resource for the economy. Water also plays a fundamental role in the climate regulation cycle.

Remedial Actions EC

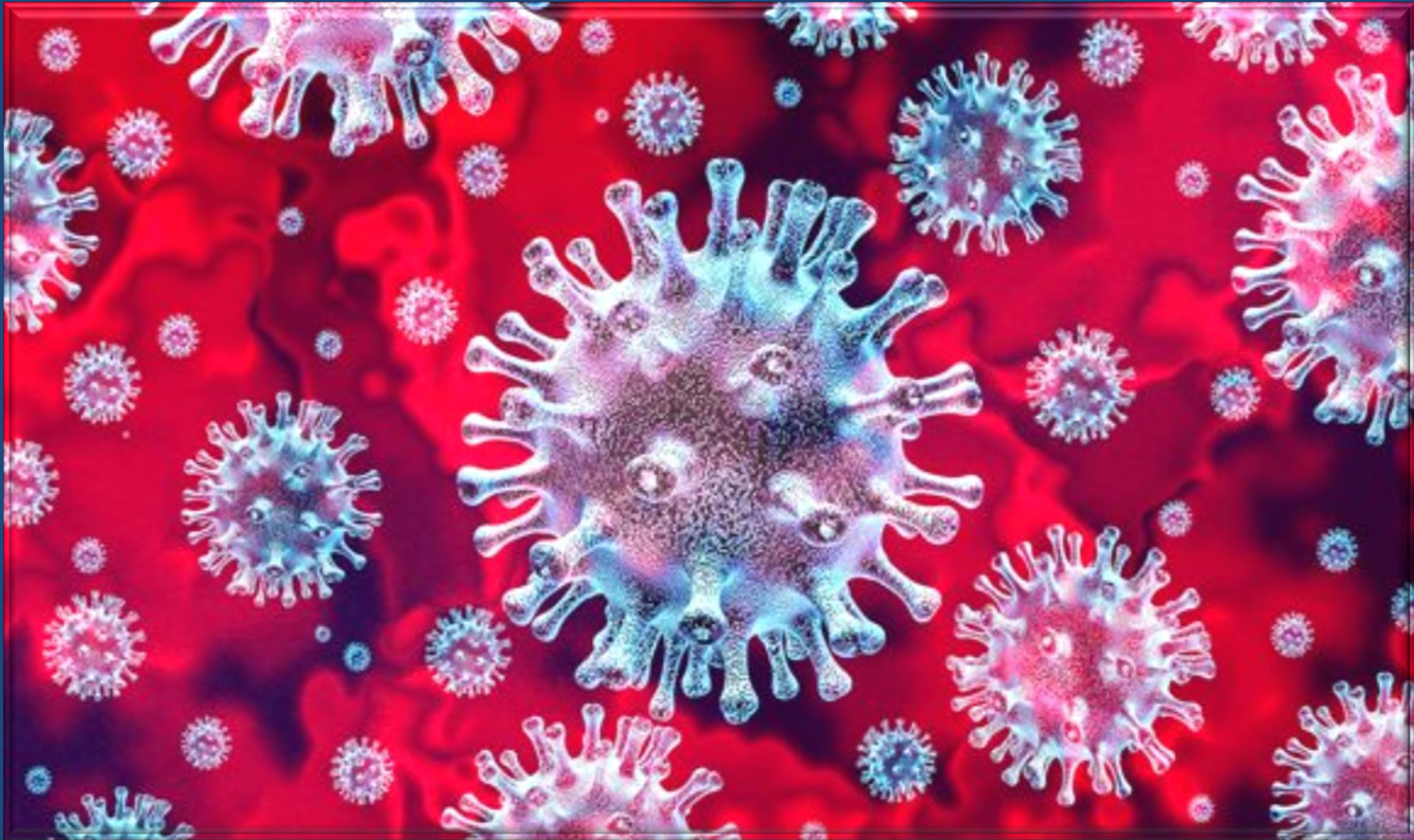
Everybody's

Contribution

Let's Pledge



COVID – 19 Pandemic: **Positive and Negative Repercussions**



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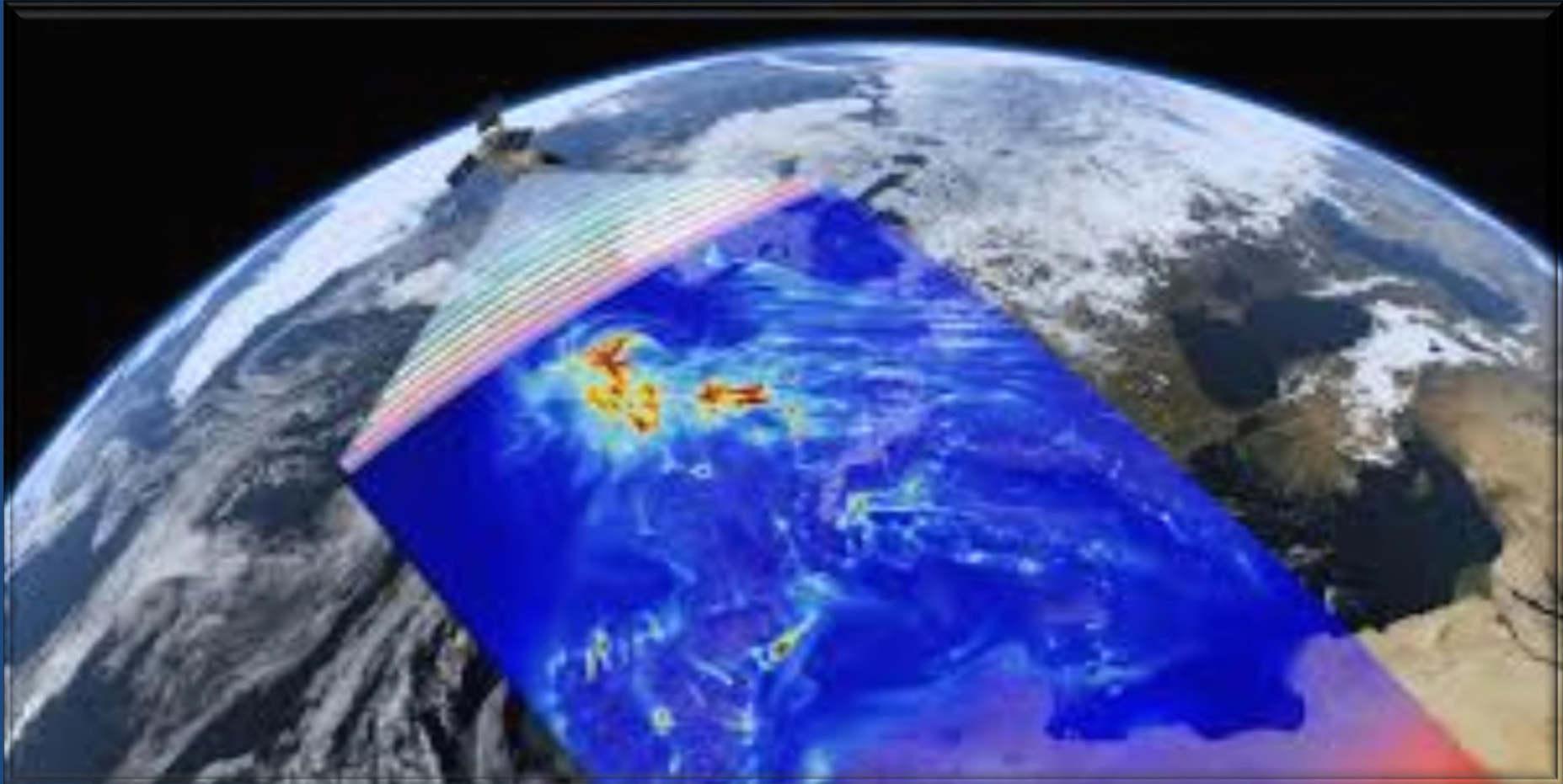
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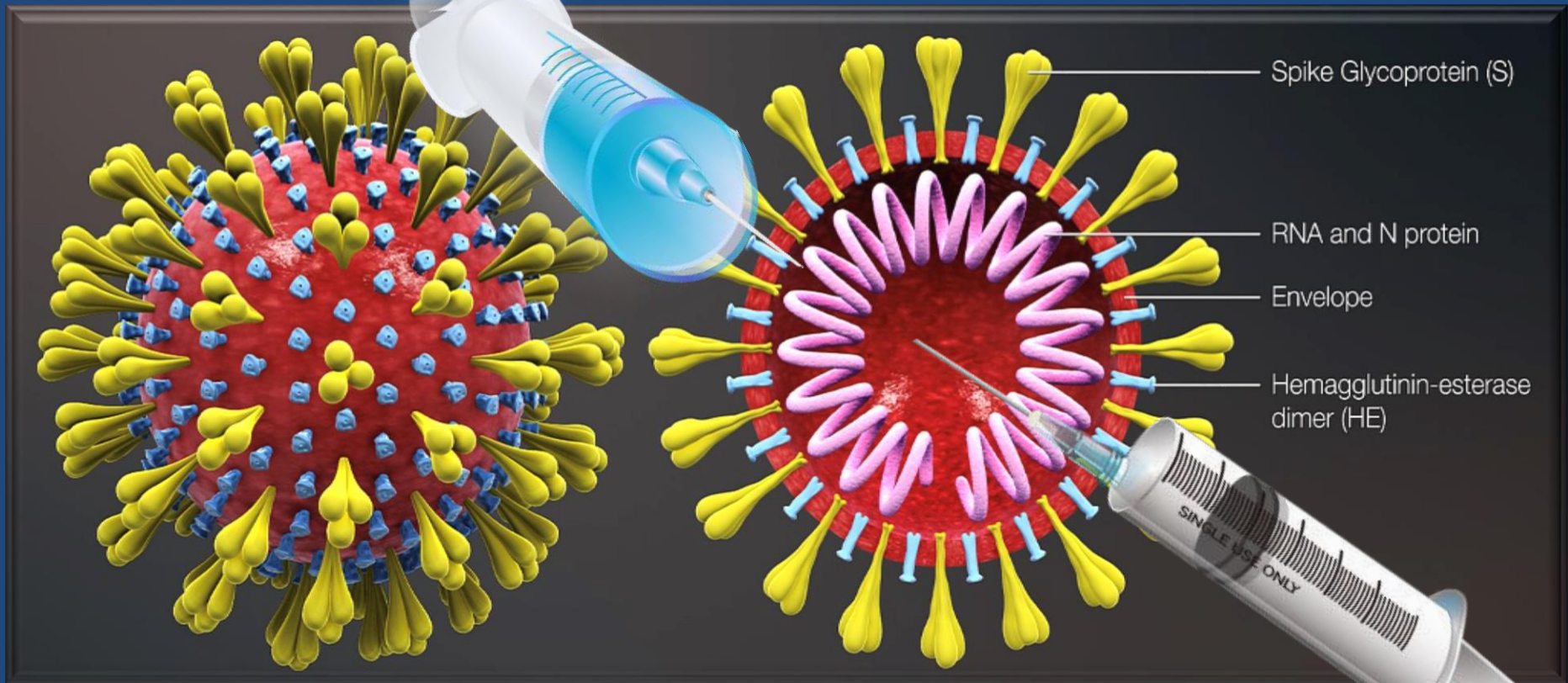
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If we want to live longer, to be safer and in good health we must protect our environment...!!!

**Less Travel = Less Congestion + Cleaner Air +
Uncontaminated Water + Unpolluted Land – an Unexpected
Upside Space**



Scientists **Figure Out** How New **Coronavirus Breaks** into **Human Cells**



कोरोना को हराना है...!!!

Please Stay Home Save Precious Lives...!!!

घर पर रहोना...!!!

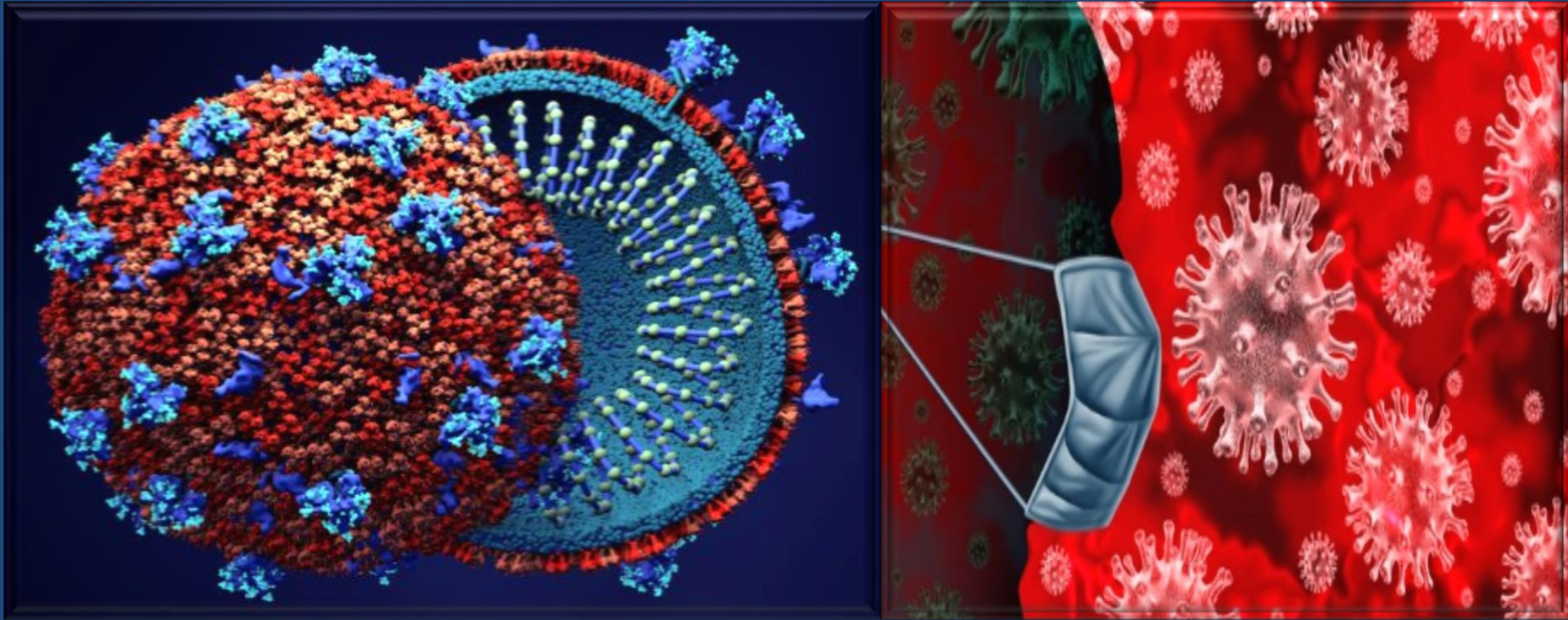
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COVID – 19 OR Coronavirus – Outbreaks



- ❖ COVID – 19 Positive Effects on Natural Environment as increase in Air; Water and Land Quality;
- ❖ COVID – 19 Negative Effects on Human Beings as Loss of Lives;
- ❖ Can low – carbon investments help economies recover from coronavirus...?
- ❖ Governments and firm establishments are already observing for ways to revitalize development, following the global economic slowdown that COVID – 19 is causing.
- ❖ Emissions reductions caused by economic recessions tend to be provisional — and can lead to emissions progression as economies' challenge to get back on pathway.

The Environmental Impact of COVID – 19



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Continued....

The 7 Best Things Came Out of This Lockdown 2.0



1

Helps you
build genuine
relationships



2

Entire lifestyle
changes to practice
better hygiene



7

Affordable Real
estate in tier 1 cities



3

Innovations to stay
connected & help
each other

6

Remote working
turning mainstream

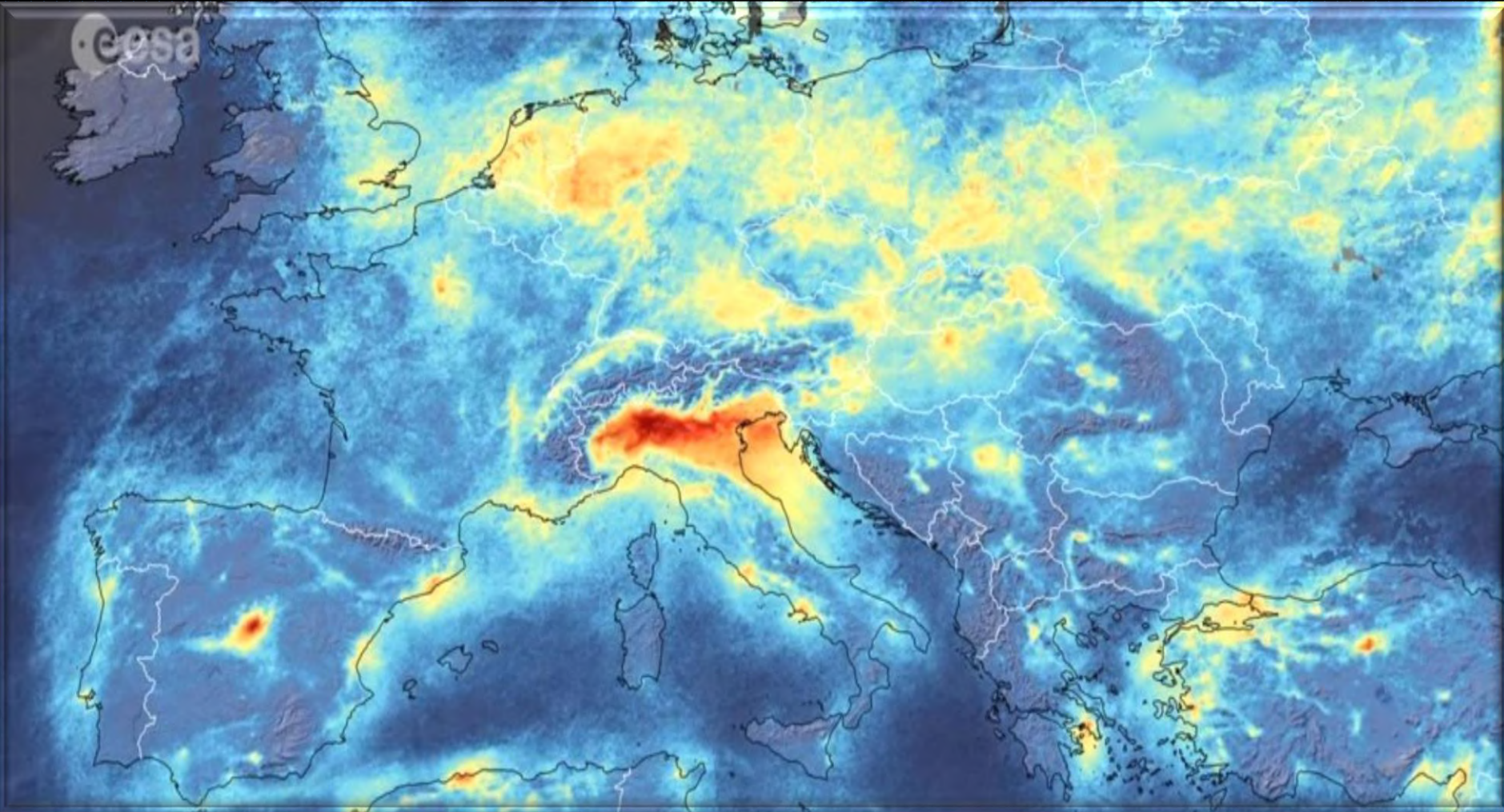
4

Blue-chip stocks
becoming the safe
bet to invest

5

A new wave of
tools & software

New Evidence Shows How **COVID-19** Has Affected **and** Reduced Global **Air Pollution** (NASA/ NOAA)...!!!

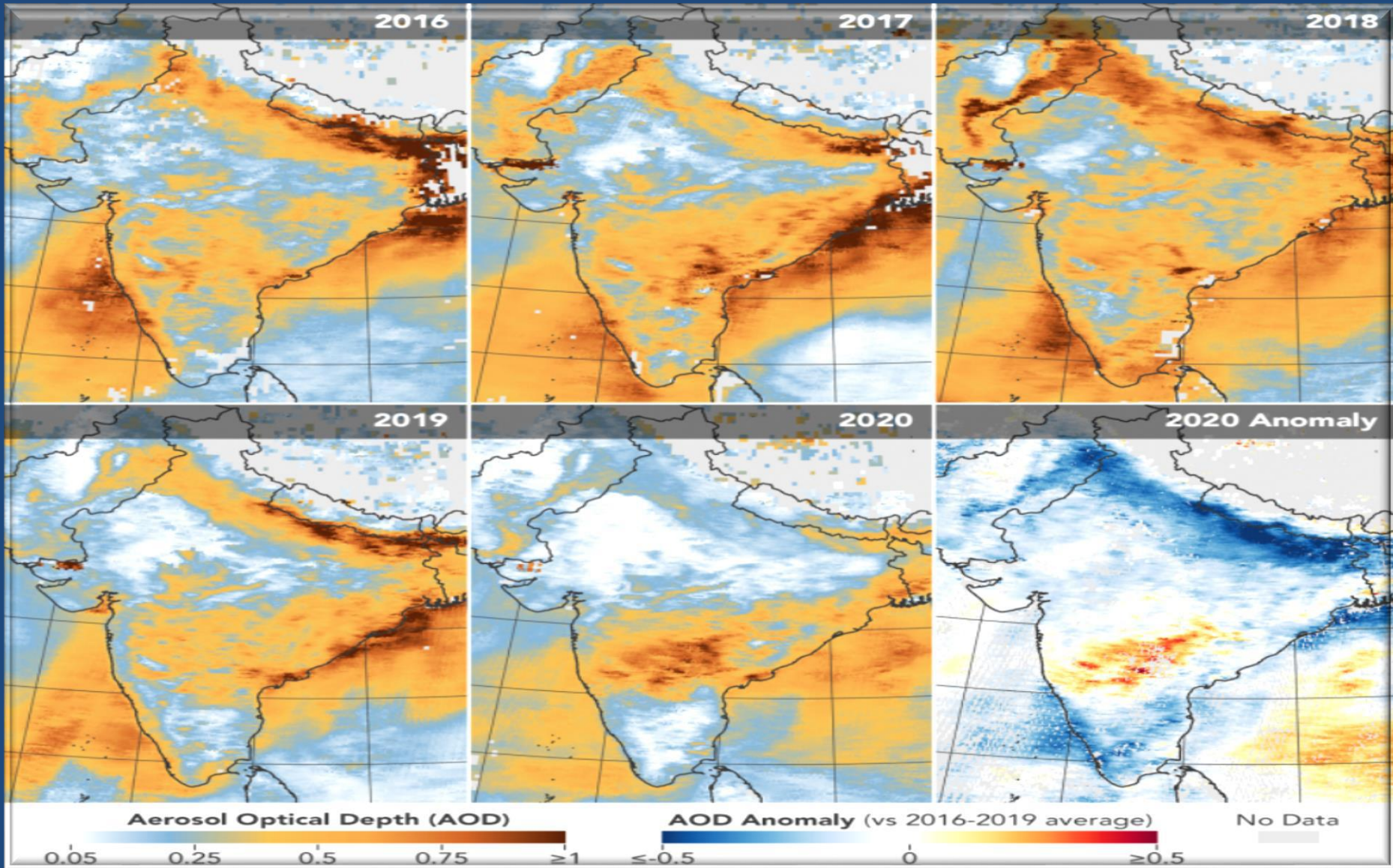


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Satellite Imageries: **Air Pollution** in India Plummet's **Aerosol Optical Depth (AOD) 2020**



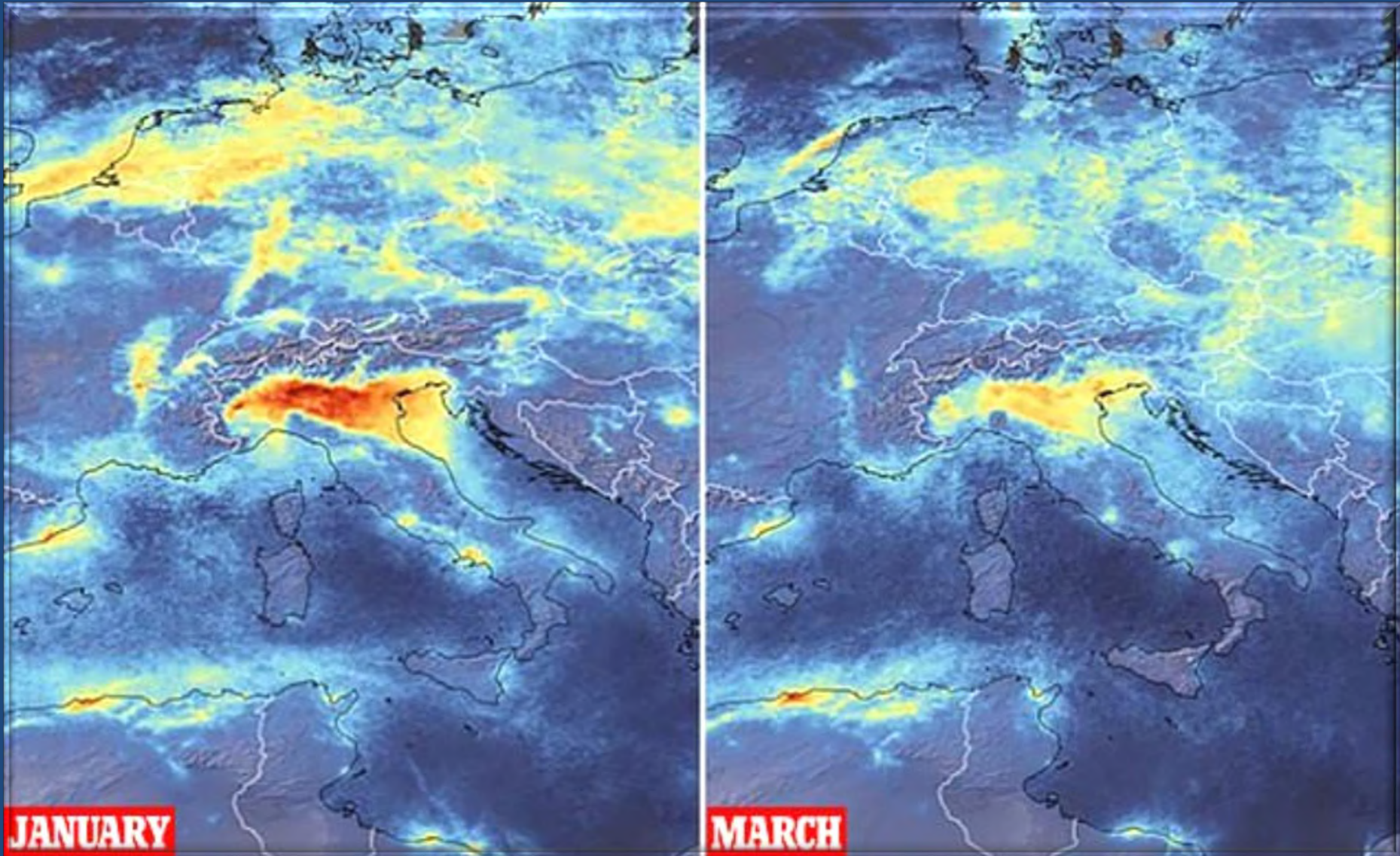
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Melodramatic Satellite Videotape Shows Drop in **Air Pollution** Over Italy



JANUARY

MARCH

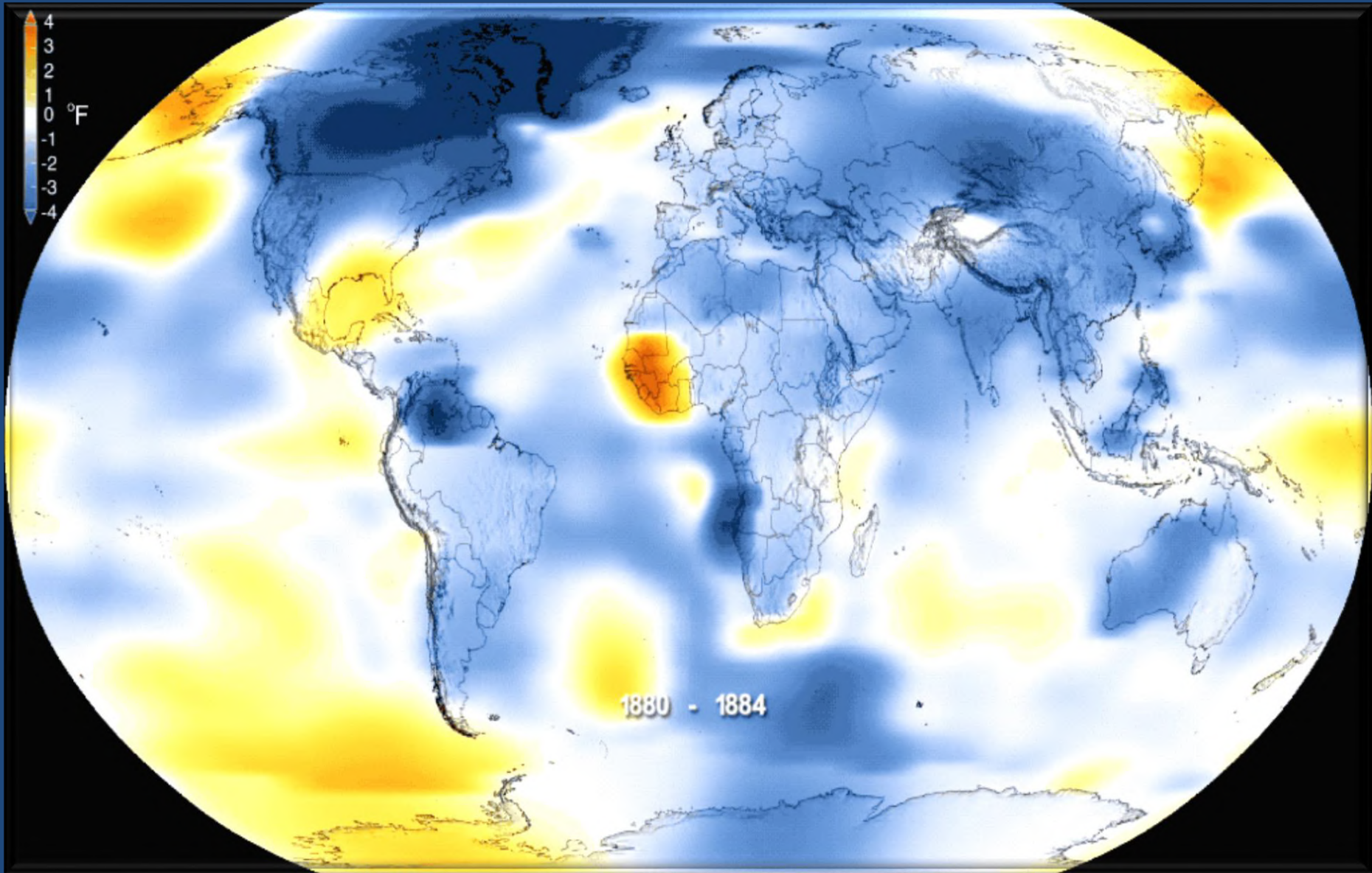
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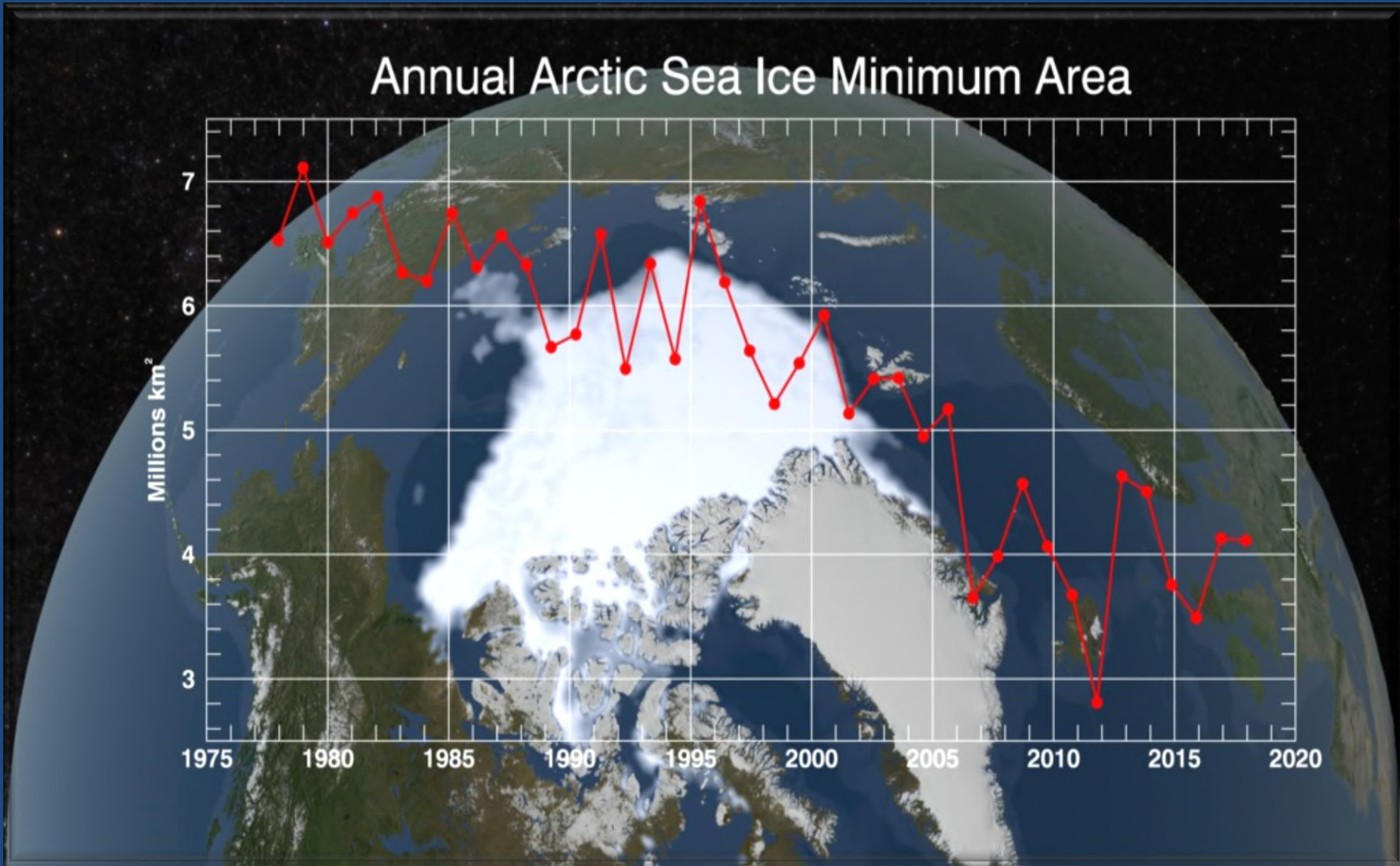
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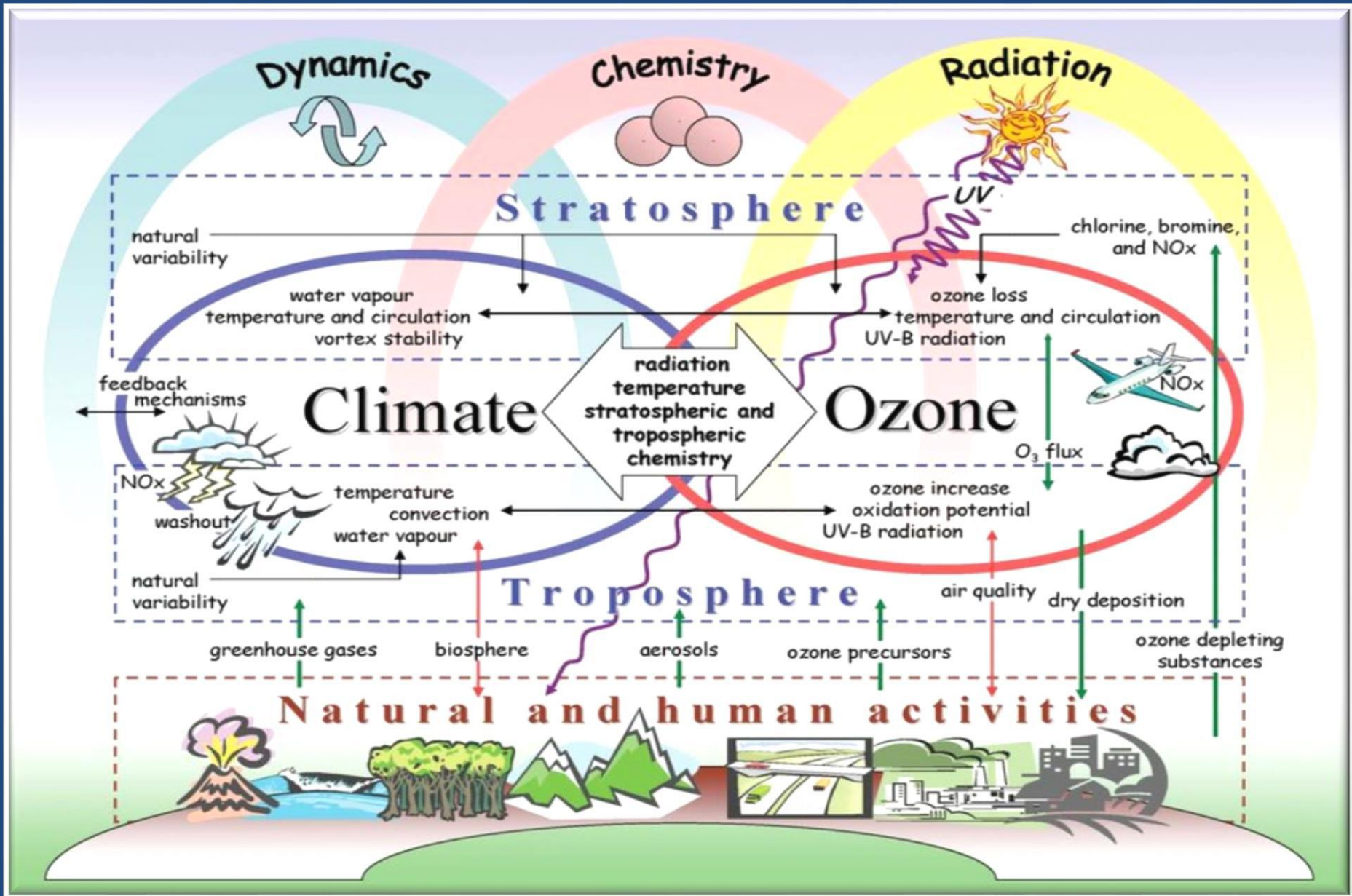
Earth's Long - Term **Warming Trend** can be seen in this Visualization of NASA's **Global Temperature Record**



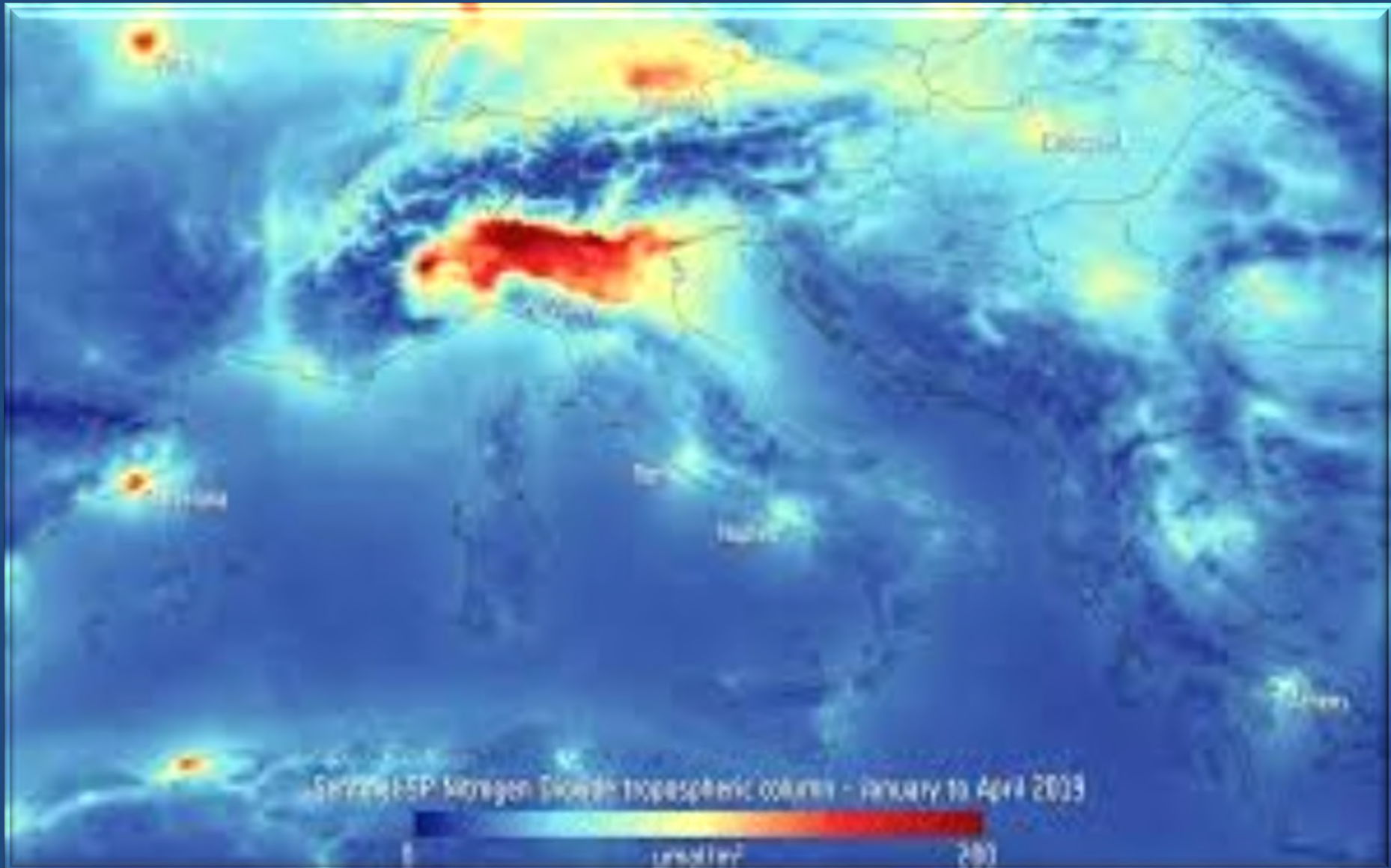
12.85 Percent per decade approximate decrease in annual minimum **ARCTIC SEA ICE (NASA)**



Update of **Ozone** Vs **Climate** Feedback Linkages (NASA)



Coronavirus: **Air Pollution** and **CO2** Fall Rapidly as **COVID – 19** Virus Spreads



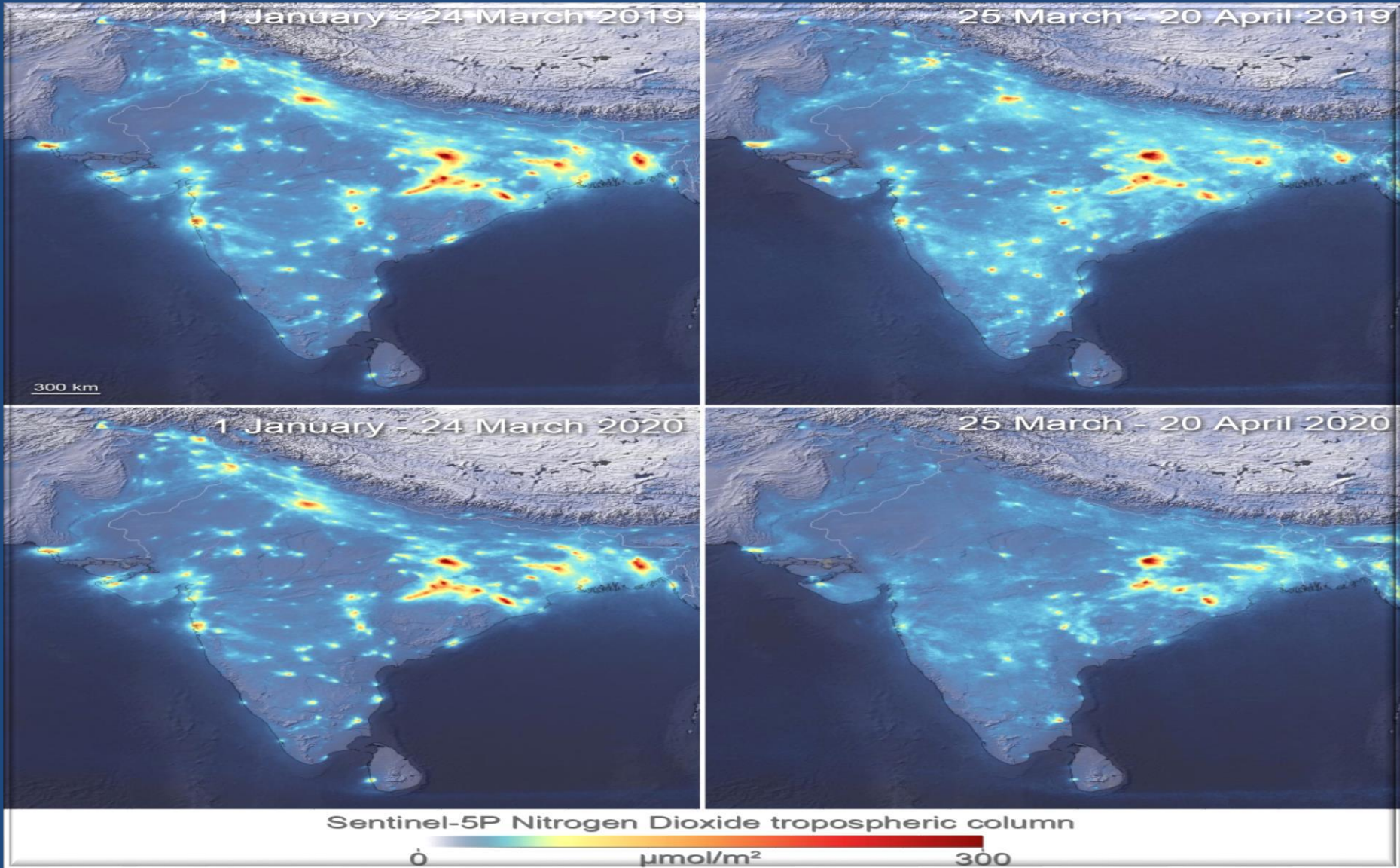
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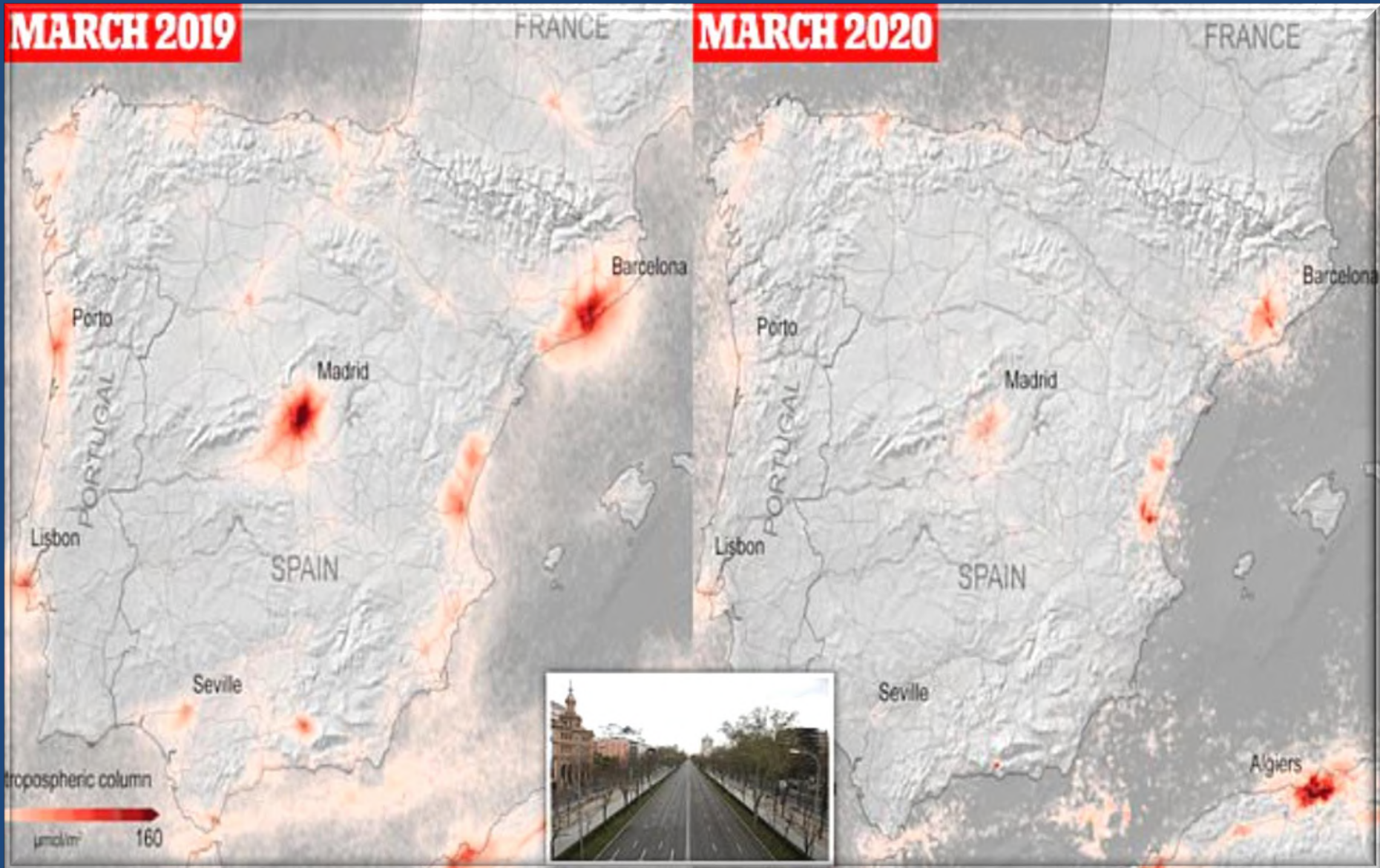
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Magnificent Satellite Imageries Shows **Air Pollution** Drop as **NO₂ – Concentrations** – Over – India



Satellite Imageries shows Massive Reductions in **Air Pollution**



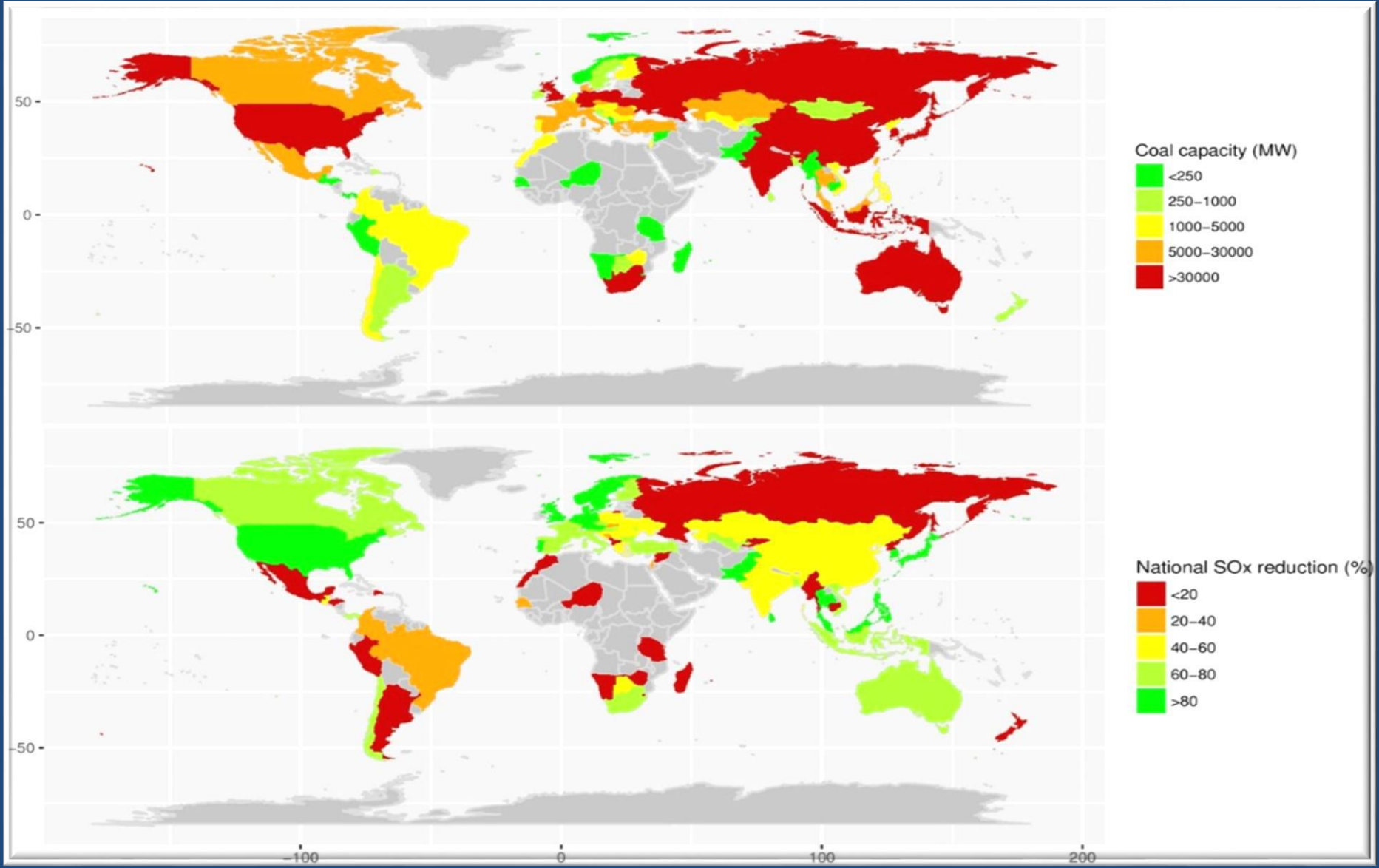
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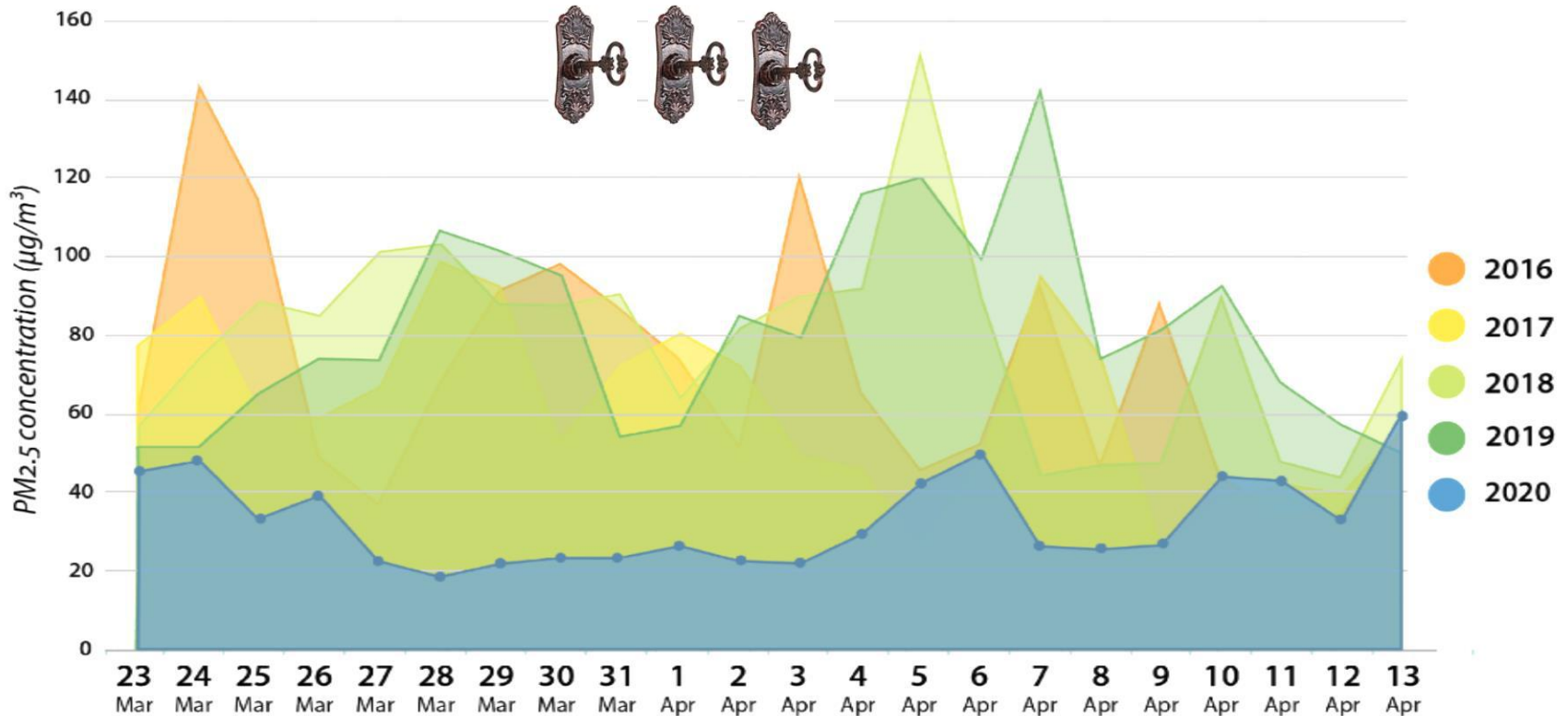
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Nature: A Global Perspective on Sulfur Oxide Controls in Coal – Fired Power Plants and Cardiovascular Disease



Delhi, Mumbai, Seoul and Wuhan See Record – Breaking Clear Skies as COVID – 19 Lockdowns Subdue Air Pollution

Daily PM2.5 levels in Delhi, India from 2016-2020, during the 2020 lockdown period 23 March - 13 April



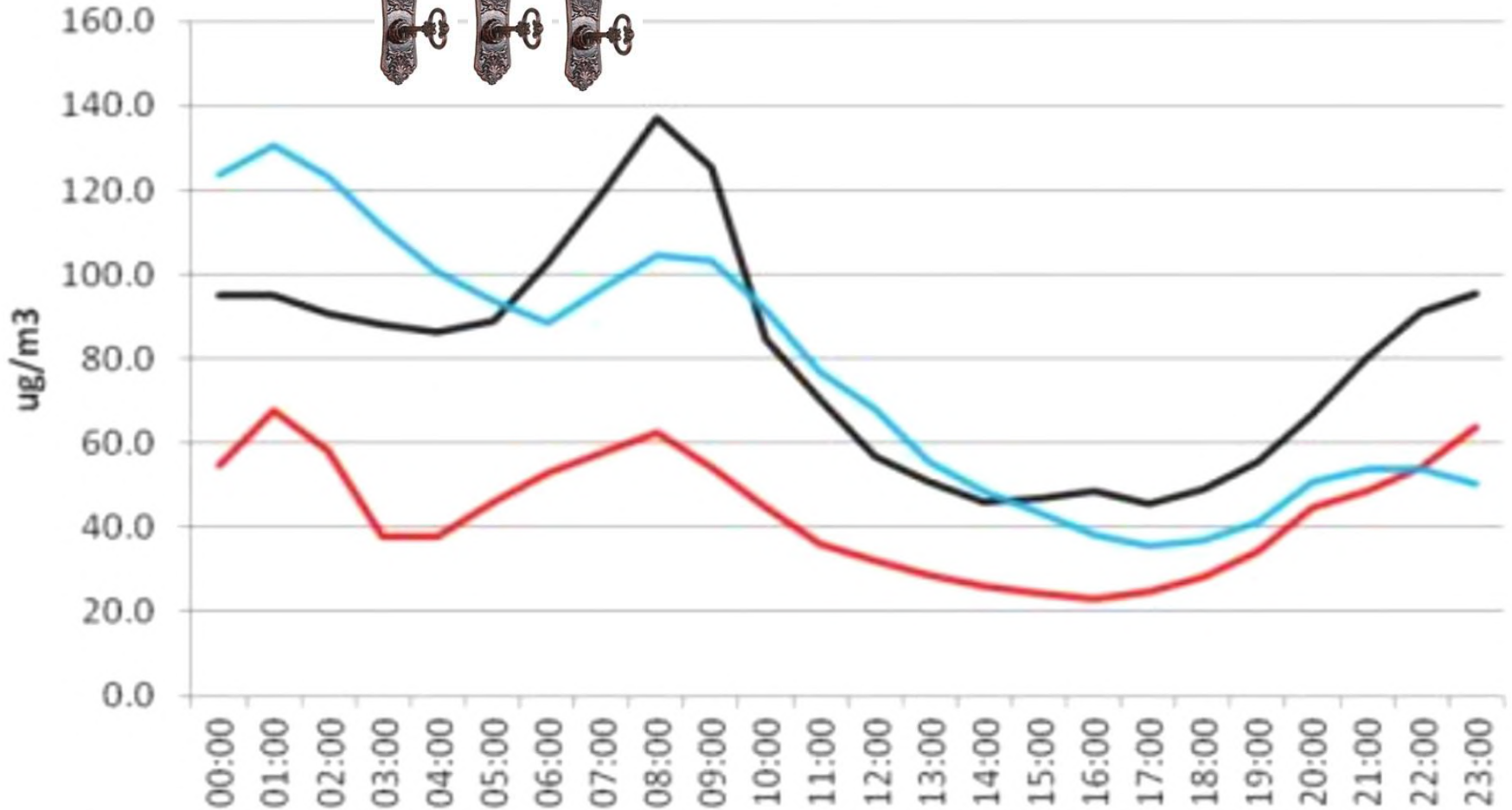
Defined 3-week period of peak lockdown



COVID - 19 Flattens Peak - Hour Pollution

Delhi (PM2.5)

— Lockdown — Regular — Janta curfew



Major Cities Around the World See Improvements in Air Quality

Daily average NO₂ concentration in the air in selected cities
April 1-15 (2019 and 2020)

— 2019 — 2020



Central locations, NO₂ concentration displayed as index value

Source: World Air Quality Index

The Flat Rates of **Peak – Hour Pollution** Due to **The Lockdown 2.0**, Proves Why Strong Action is Needed to Reduce Traffic Volumes and Cut Tailpipe **Emissions to Near Zero...!!!**



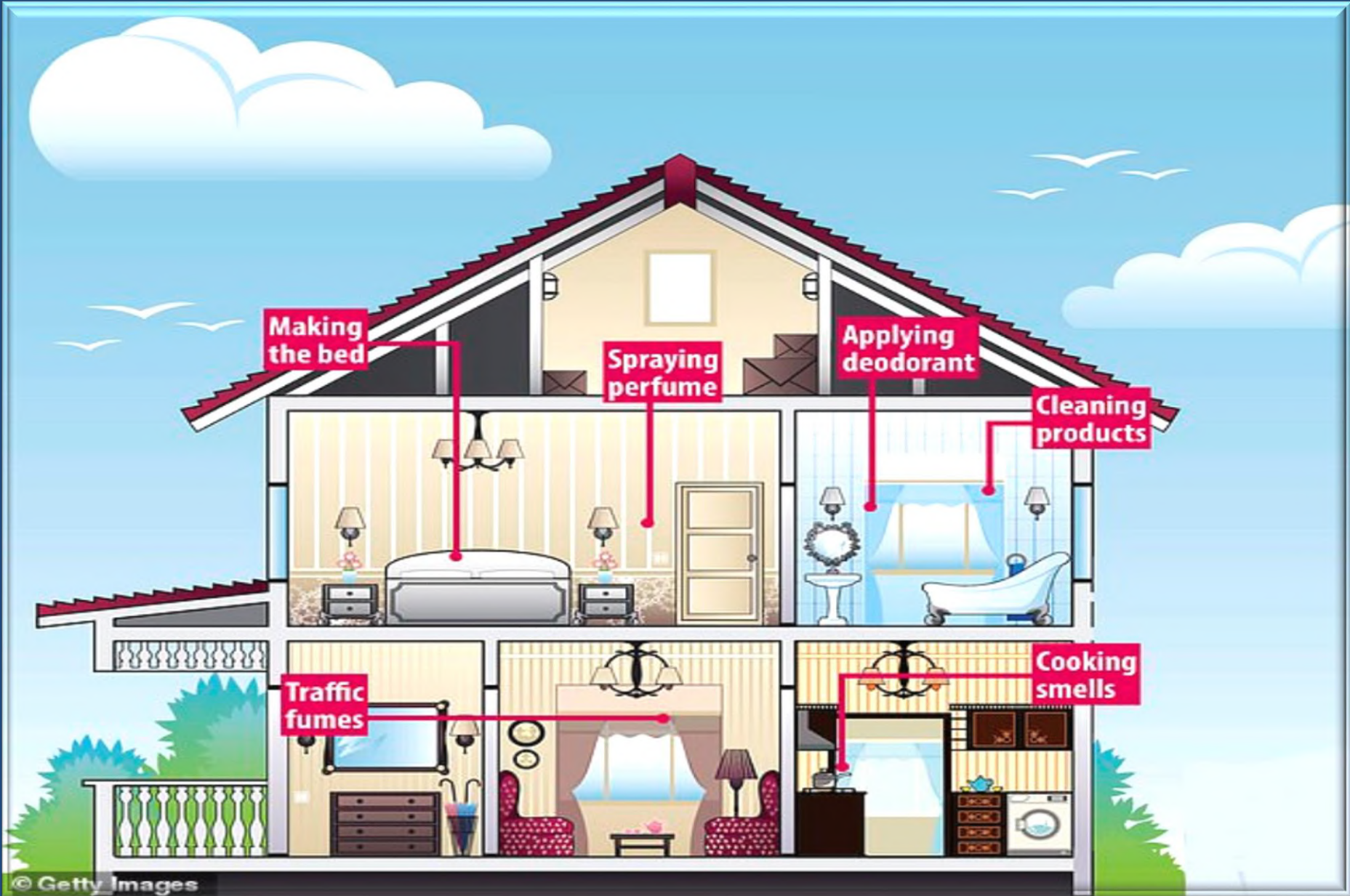
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What's Secretly **Polluting** The Air Inside YOUR Home...???



Coronavirus **Lockdown 2.0** | **Air Quality** Improves in Over 90 Cities...!!!



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Continued....

The **COVID – 19** Pandemic has Led to a Huge, Global Drop in **Air Pollution...!!!**



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Partnering to Act on **Land Conservation...!!!**



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Continued....

Soil and Land Conservation Act...!!!



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Continued....

Peacock Dancing in the Garden...!!!



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Continued....

Peacock Dancing in the Forest...!!!



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Continued....

Opportunities for Forest Conservation Act (FCA) and Sustainability



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Continued....

Land and Water Conservation Act (1965)



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Continued....

Red Mangrove Islands (Rhizophora mangle) Biomes Wetlands



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Continued....

Future Effects

(Present Pollution Level Status after
20 to 30 Years)

- Reduction in Global Warming;
- Reduction of Ozone Layer Depletion;
- Reduction in Risk of Black Hole;
- Quality Pollution Reduction in Natural Properties Like Land; Air and Water;
- Inspirational: MP's First Startup's Success Story
(www.TheKabadiwala.com);

Encouraging: MP's First Startup's Achievement Story (www.TheKabadiwala.com)



The Kabadi Wala

Online home Service store. Sell your waste material online, call electrician, plumber, sell your old items , buy old items, and many more services please contact us for your request.

Turn your
recycling
into
rewards

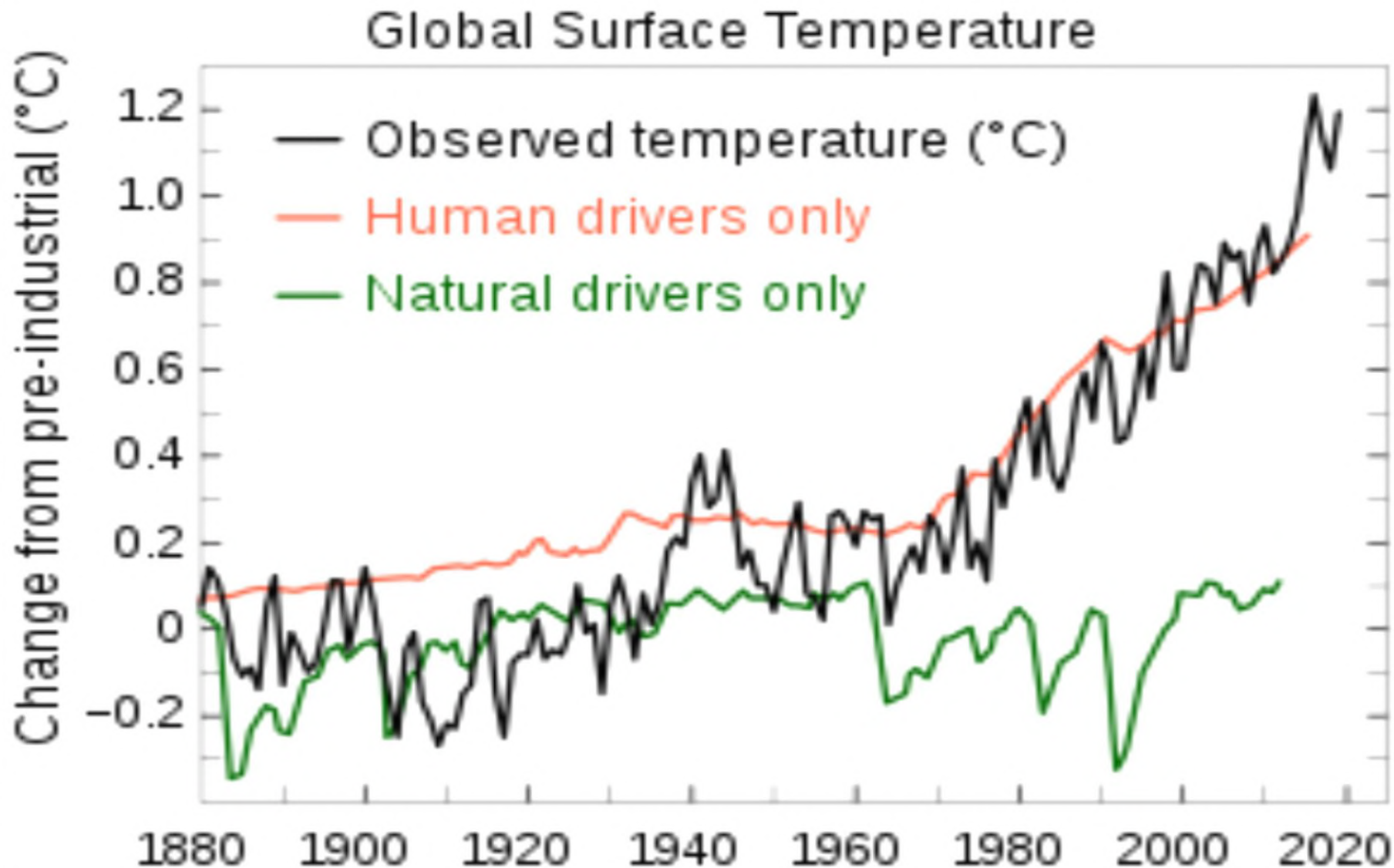


Recycle & Reward

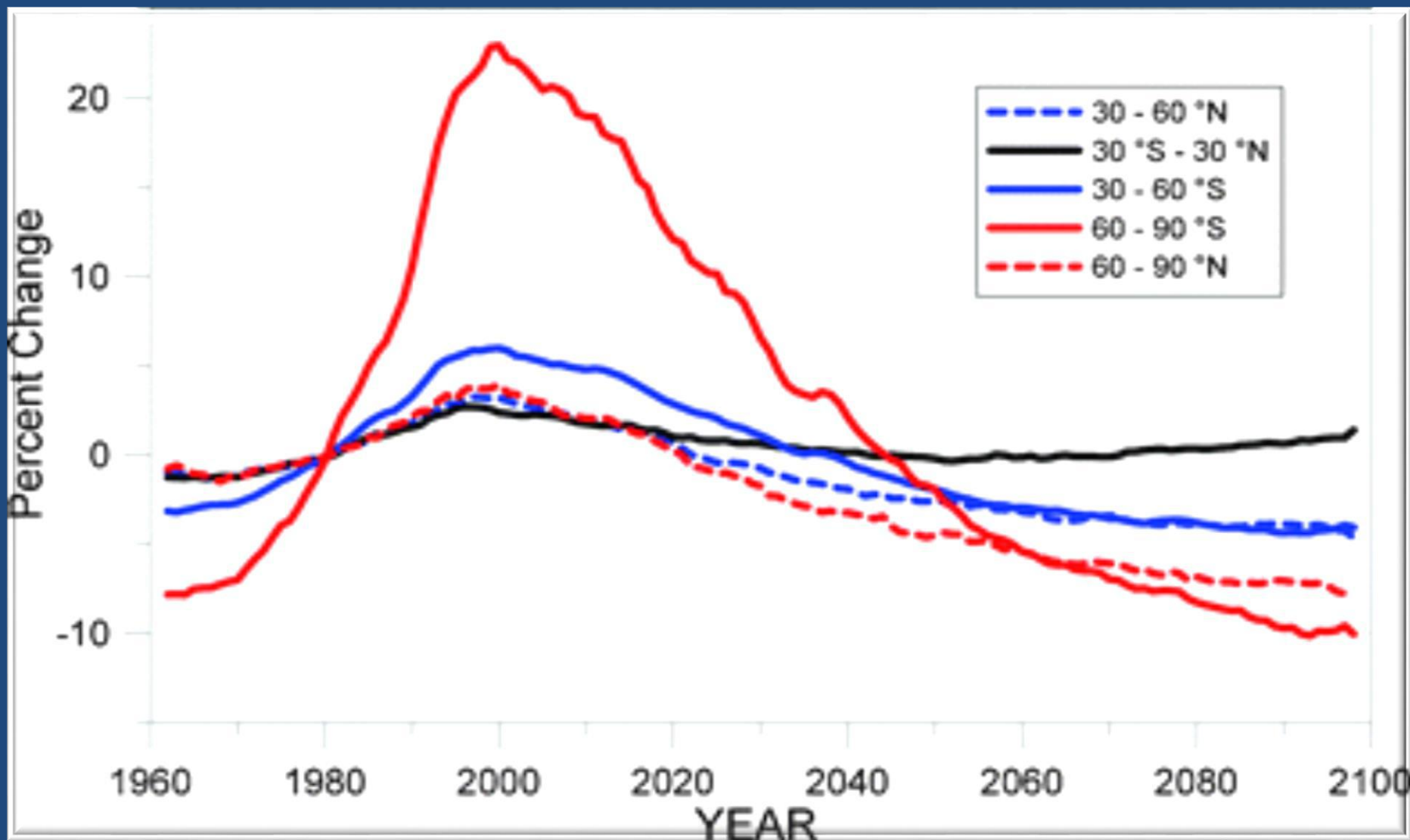
Legal Provisions Regarding Environmental Protection Act (EPA)

- **Soil and Land Conservation Act 1945 | Agriculture and Food;**
- **Wild Life Protection Act 1972;**
- **Prevention & control of Pollution Act 1974;**
- **Forest Conservation Act 1980;**
- **Environment Protection Act 1986;**
- **Land Conservation Act 1960 (Revised 1989);**

NASA Global Warming Measures...!!!

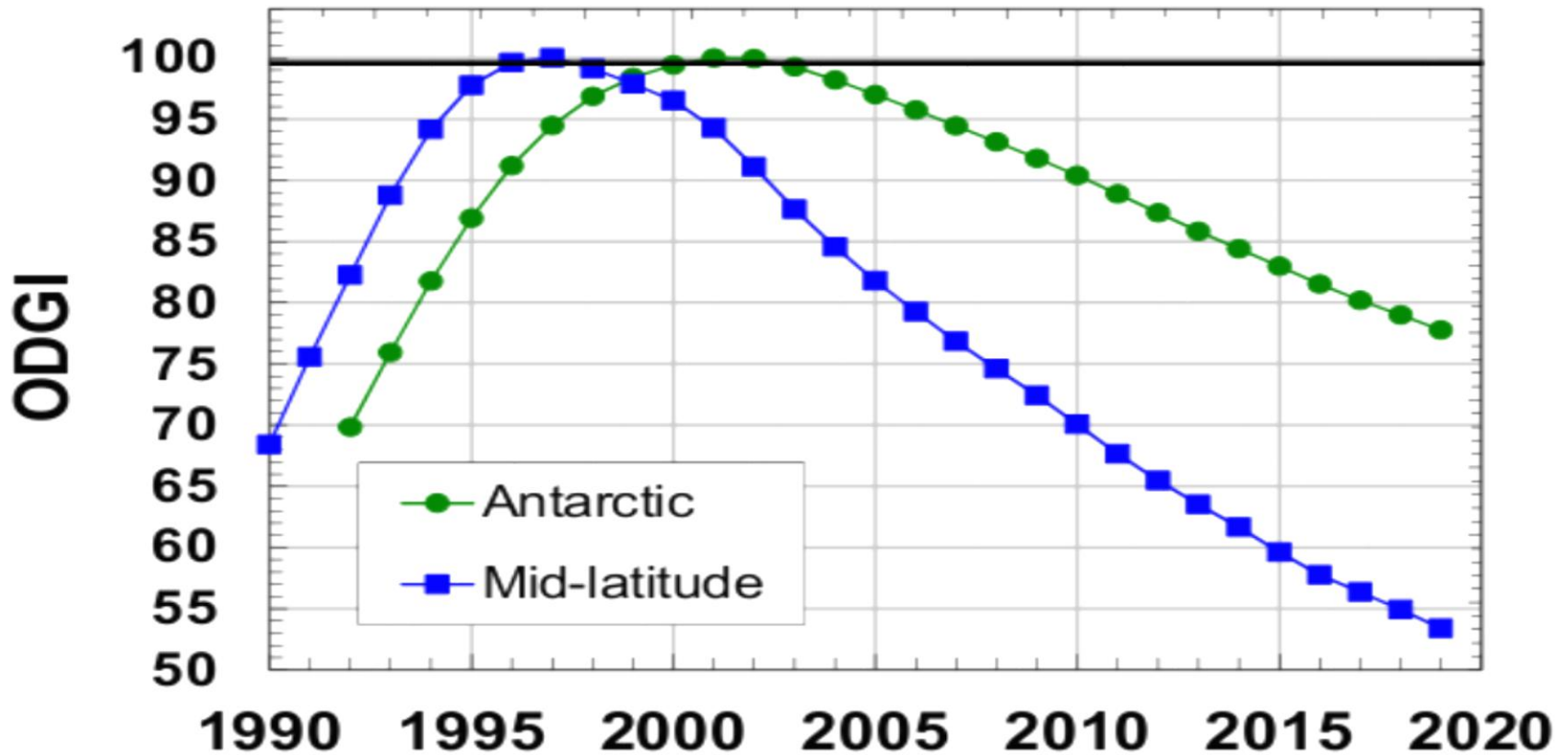


Royal Society of Chemistry: Ozone Depletion and Climate Change

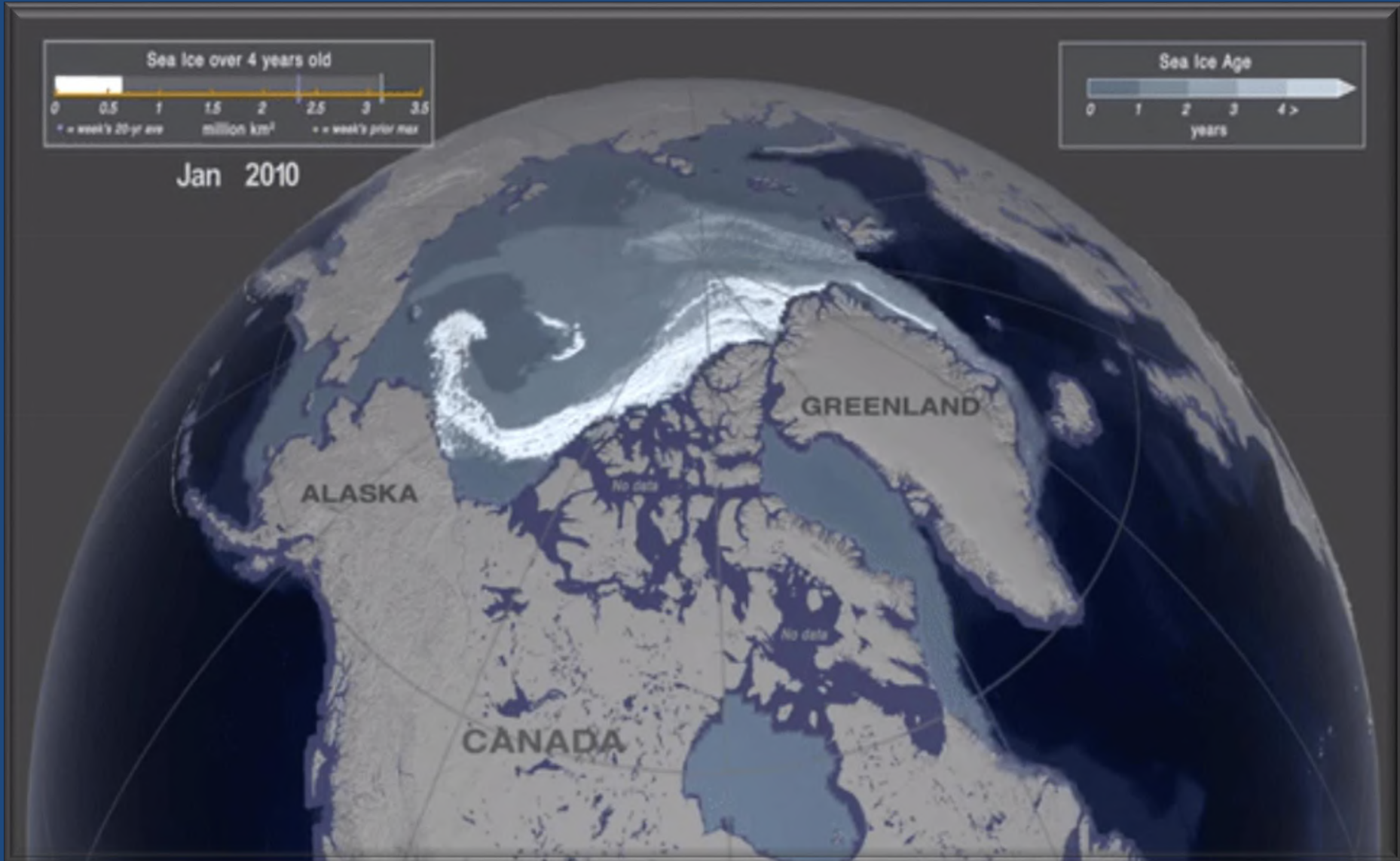


NOAA's Earth System Research Laboratory (ESRL) Global Monitoring Laboratory – The NOAA Ozone Depleting Gas Index

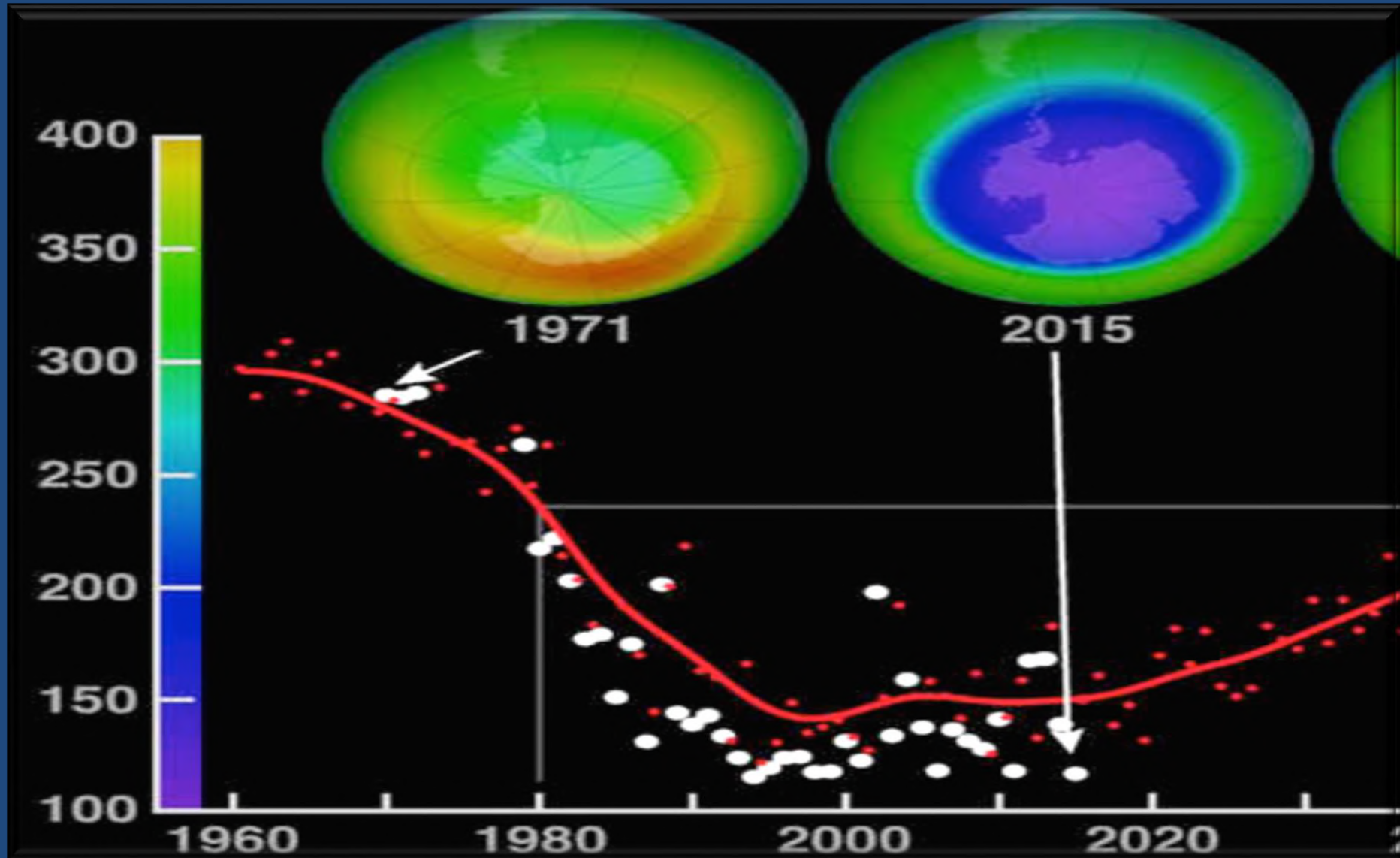
NOAA Ozone Depleting Gas Index (ODGI)



2020 Vision: Looking Back to Drive Forward – Climate Change (NASA)



Ozone Layer Over the Antarctic: The Good, the Bad, and the Chloro – Floro – Carbons (CFC)



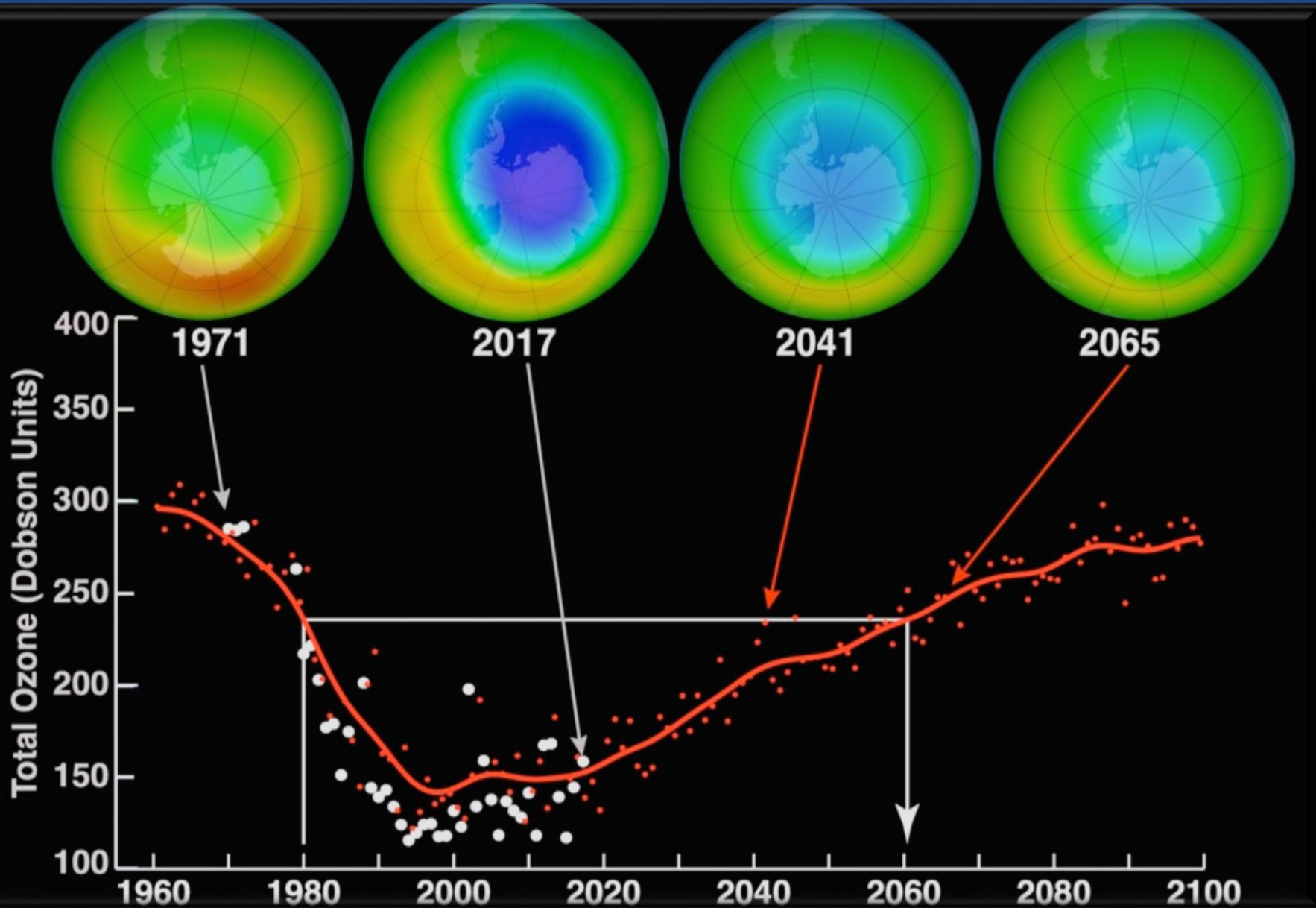
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The Antarctic Ozone Hole Will Recover (NASA)



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The Causes of **Climate Change** (NASA)

The Greenhouse Effect

“Events...!!!

Like in Future Due to Global Warming, Greenhouse Effect, Climate Change and Increasing Temperature as Well as Tremendous Imprints of Heat Waves Causing Numerous Types of Infectious Viral Disease”

Impressions OR Footprints

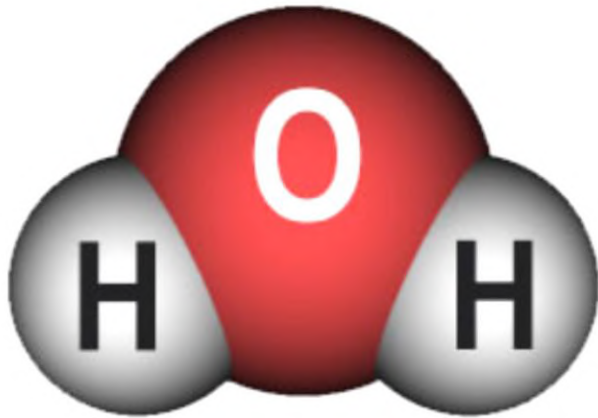
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GLOBAL AND UNIVERSAL SCALE...!!!

Atmosphere

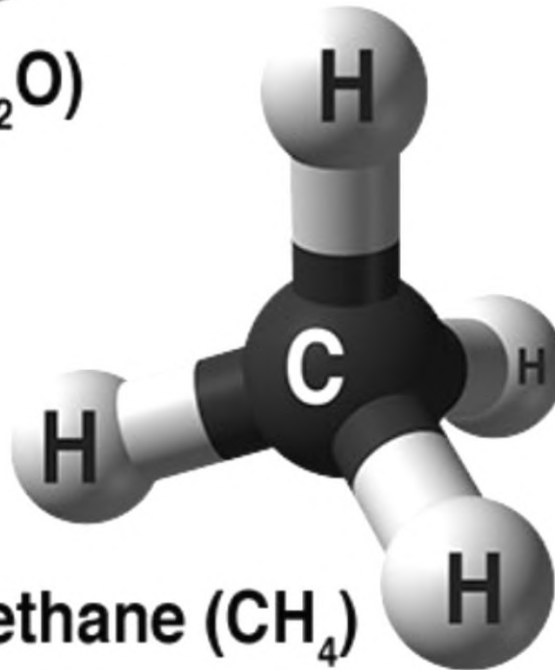
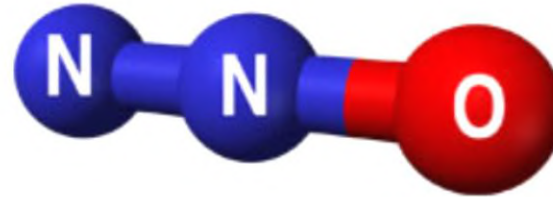
climate.nasa.gov

Gases that Contribute to the Greenhouse Effect Include

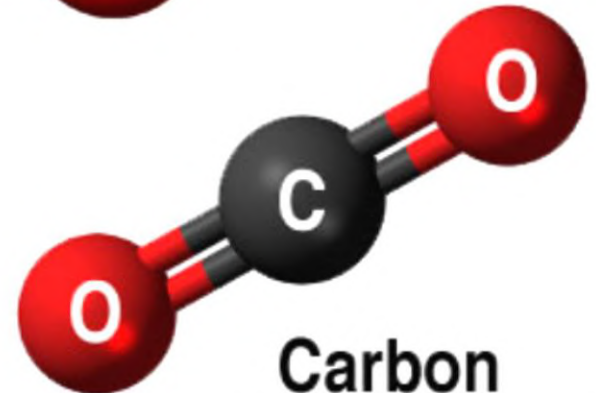


Water vapor (H_2O)

Nitrous oxide (N_2O)

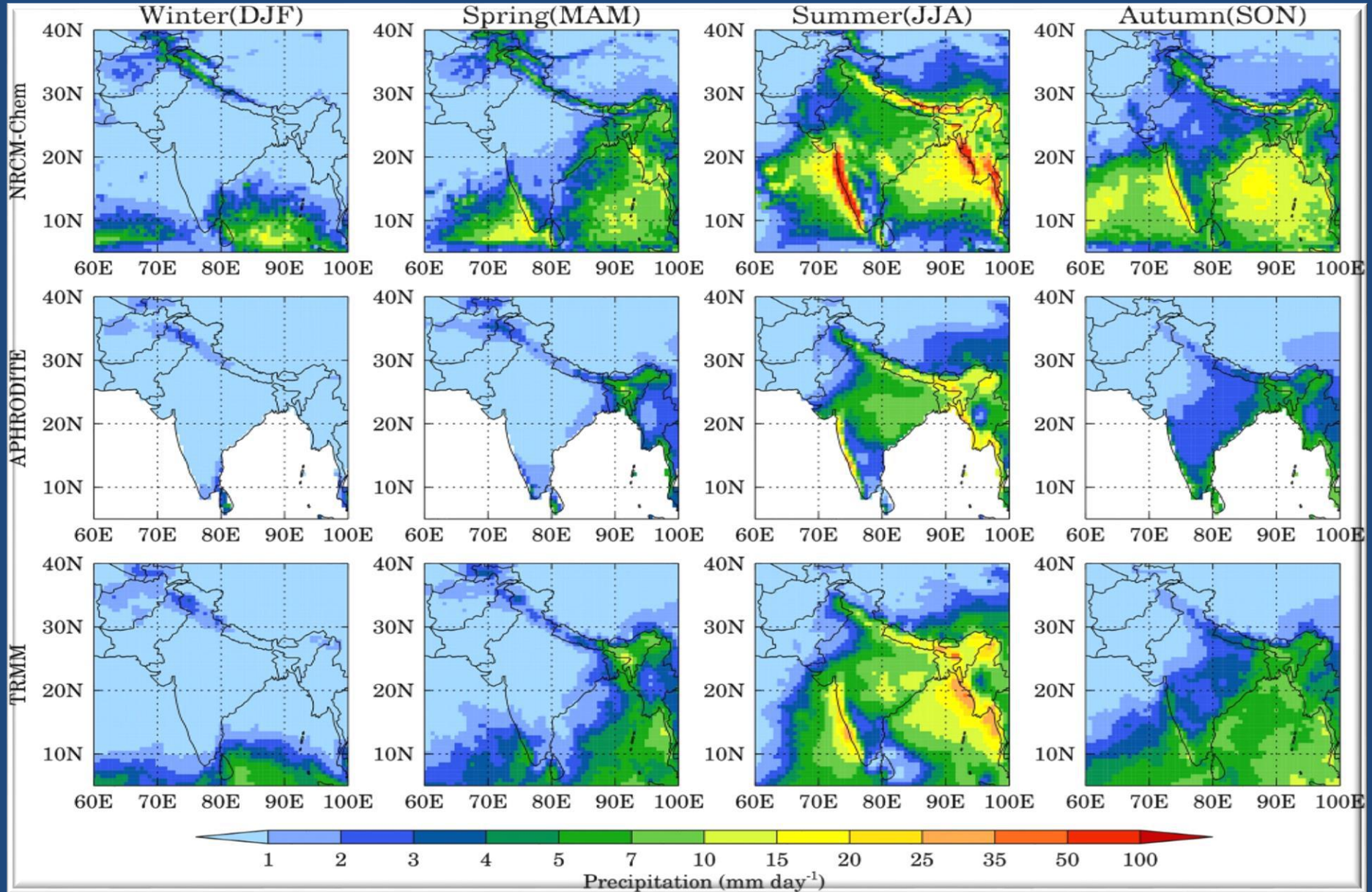


Methane (CH_4)

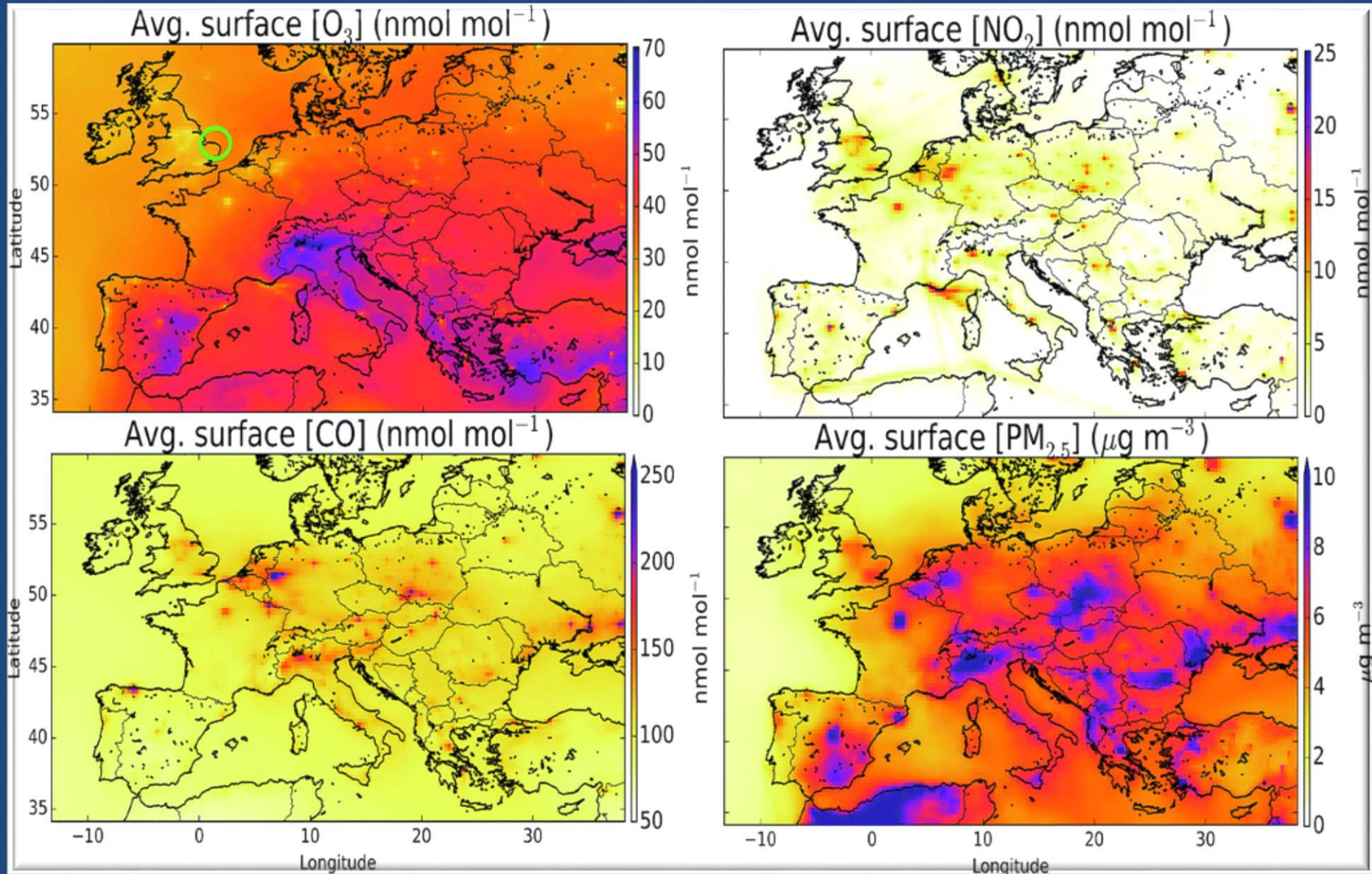


Carbon dioxide (CO_2)

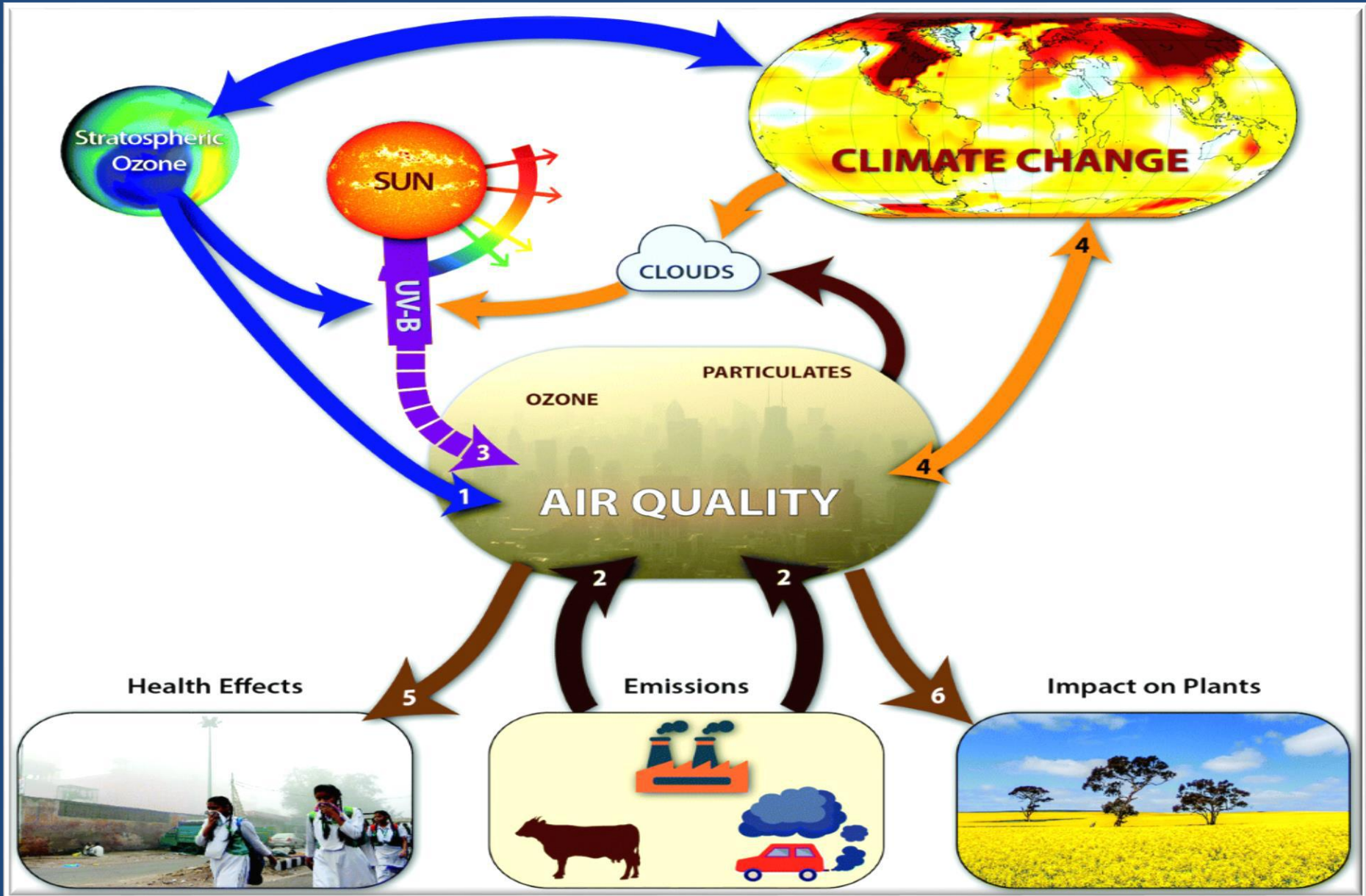
How Will Air Quality Change in South Asia by 2050



Effects of Halogens' Compound on European Air – Quality



Interactive Effects of Changing Stratospheric Ozone and Climate on Air Quality



Refresh Living and Black Ink Hand Drawing of Smoke Coming from House Chimney, Volatile Organic Compound (VOC) Or Air Pollution Concept



Fresh living

Daring **Weather** OR **Climate** Action Strategy can Stimulate Economic Growth



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People Stay Home, Aerosol Levels Hit 20 – Year Low in India: NASA (Reliable Decrease in Pollution Ranks)



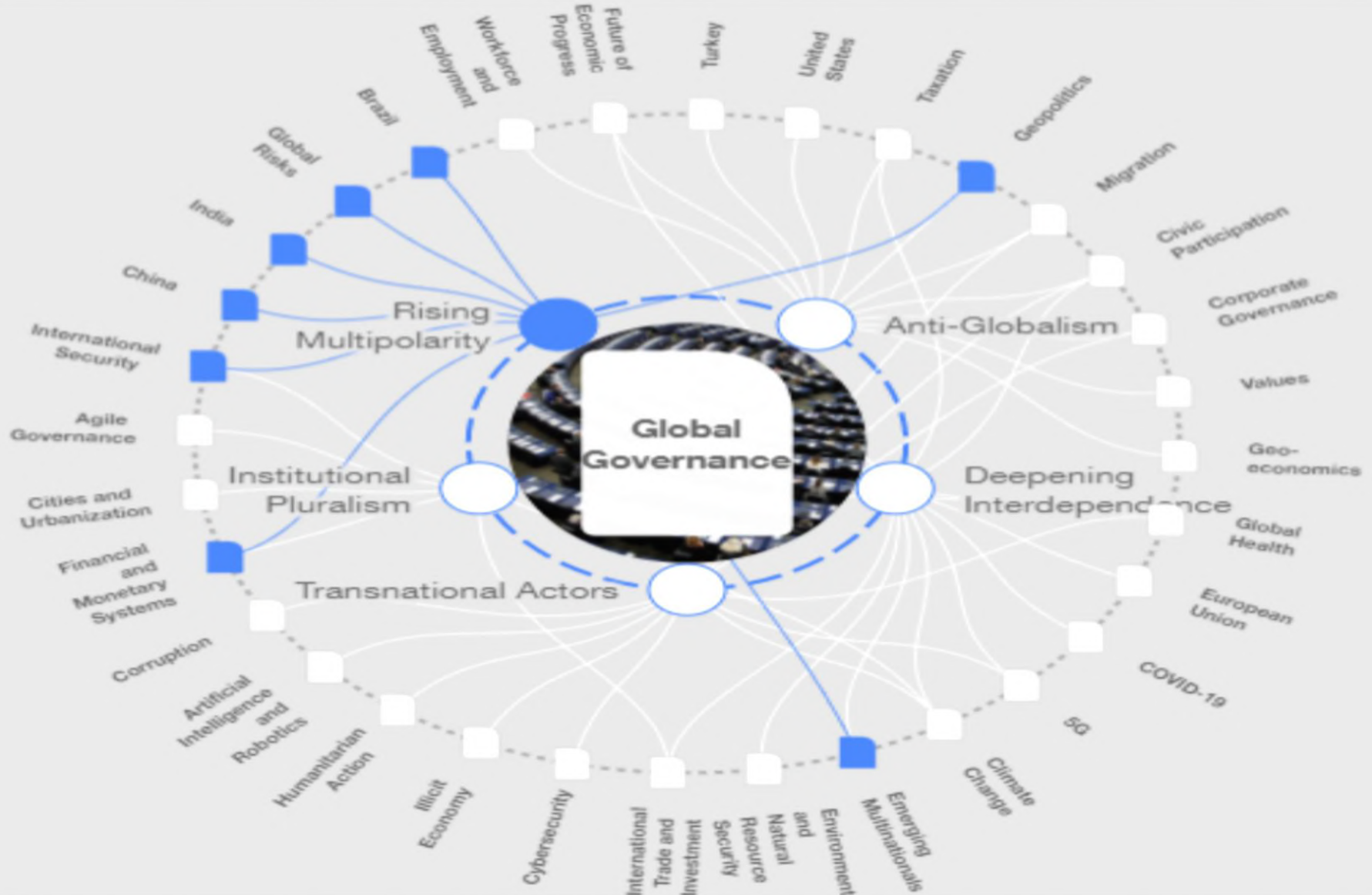
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Global Strategic Intelligence

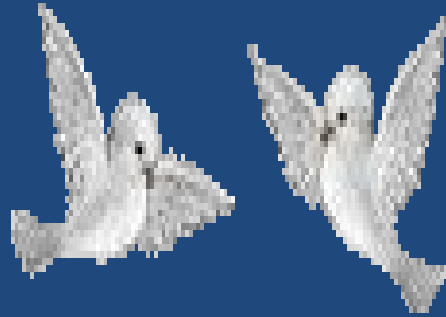


Dr. Harish Kumar Gupta
E-mail: hg234276@gmail.com;
h.g@rediffmail.com

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sponsored by Department of Science and Technology,
New Delhi, (<http://www.serc-dst.org/>)

Among 2000 Outstanding Scientists 2010 Award:
The International Biographical Centre, Cambridge,
England.
(<http://www.internationalbiographicalcentre.com>)

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NEXT

TIME

Dr. Harish Kumar Gupta