

4 - Oceans were more than 100 feet higher
1/2 of all carbon released by humans was last 30 yrs

Not a nat me nut - doesn't like camping.

9) Future is shrouded, delicately, from public view.

We have squandered our chance for a good outcome.

10) we are so sociopathically good at correlating bad news into a seckening evolving sense of what is normal.

Those yet unborn will be outraged.

19 Gets worse as long as we produce fossil fuel greenhouse gasses.

25 Necessary ability to work together is collapsing

27 - Creeping Panic - History may not be progressive
it may be cyclical. Uninhabitable

28 - Annual Holocaust from air pollution - 7 million Earth

"pursued and prosecuted by what brand of Nihilism?

29 - in one generation we've destroyed environment

should have / Next generation must put it back
used hemp together... Radical Change
ethanol?

This will take mythology and Theology

30 Those more panicked are often hardly less Complacent Me.

30 It should be good that climate crisis is human caused.

32 Don't give up early - Make a world to accommodate
dignified & flourishing life.

43 How Much hotter will it get? That is a human/
political question

47 The World is urbanizing - Heat - could reverse that.

48 - Heat death is cruel.

51 - 75 Billion tons of topsoil lost each year.

65 Every minute Every American adds 5 gallons to Ocean
Last time 4° warmer - Sea Level 260 ft higher

Palm trees in the Arctic
Way More carbon in tundra, frozen, than in Atmosphere

69 - Oceans should be up 260' / 600 million w/in 30 feet of
Sea Level

73 - our New Realm will be "unbounded by the analogy of
any human experience.

87 1/2 the world pop depends on seasonal melt in water

93 Water Efficiency Impt as energy inefficiency
Water Shortage - The Teeth of Climate change,

95 - Oceans warm and acidify.

Dead Zones - No oxygen

96 Kill off the oceans before we really discover what is there.

100 Wow - Air - at 430 ppm CO₂ (Twice Now) Cognitive Ability declines by 21%

Many elementary classrooms already over 1000 ppm

101 10,000 per day die from air pollution.

More than hurt by nuclear.

101 Small particle pollution lowers cognitive ability.

Temp. has a robust negative effect on cognition

Pollution more prematurity - low birth weight

India, China cities - air unbelievably bad. Does not get much better in the country - 95% of people breathe dangerously polluted air.

105 Plastics - There is the huge garbage patch - & then

microplastics - Affecting 1450 species by 2018

Can be 1/10 of the weight of a baby chick - Seabirds are declining fast.

106 You can breathe in microplastics AND they are in the tap water of 94% of tested U.S. cities.

Plastics - Triple by 2050, More plastic than fish in ocean

Plastics - Pollute when made, methane when degrade.

When Pollution Actually (Not greenhouse) helps cool the planet.

116 Have we really become so rich by innovation & trade - or mostly by the huge power of burning fossil fuel?

118 - Economic Activity will decline - Not a great Depression, A great dying.

111 - Warming - Tropical diseases migrate to us

120 All Human Infrastructure is not built for Climate Change

124 in Heat - greater amount of armed conflict.

128 Has Been Great Recent "Human Progress"

132 The UK - Started it - and will suffer least.

134 Heat - hurts babies in utero - Creates Alzheimer

135 Have Hope - have no alibi for indifference

136 - The Effect on Mental Health - "climate depression" "environmental grief"

139 - in 50 yrs we will know so much "and how much more

gruesome our self immolation will likely seem."

- 3 Humans have told "end of the world" story forever
 4 - We are well entertained by fictional apocalypse.
 5 - We are most comfortable adopting a learned posture of powerlessness.
 6 - 75% of Flying Insects already died out.
 7 - By weight - 4% of mammals are wild.
 8 - "Alarmists" got bad reputation.
 9 - James Hansen - testified to congress - says "scientific reticence" as a problem.

- 10 - "Climate Kabuki" of accords and conferences - emissions are still growing.
 11 - World economies will be constantly harassed by Solar is not eating away at fossil fuel use - Coal is big.
 12 - Bitcoin - a million transatlantic flights.
 13 - Concrete - As a nation it would be biggest emitter ~~China~~ ^{third} China.
 14 - We are in the screen - 3 yrs we don't have to watch = all of 20th Century USA.
 15 - Politics is a moral multiplier.
 16 - Our vote is most imp.

The Uninhabitable Earth

- Life After Warming**
 1 - Both Conscious Consumption and "wellness" are Cop outs - we need political action.
 2 - Social System defined by Competition.
 3 - If growth recedes. What politics will evolve?
 4 - On the matter of climate change China holds nearly all the cards.

- 5 - Agriculture - the **David Wallace-Wells** - longer workday. More pop.
 greatest mistake in history. bringing state power
 6 - bureaucracy, oppression, inequality.
 7 - Climate Change - Yet it rents everything about our lives.

- 8 - Enough Warming of world will be convulsed by suffering at such a scale.
 9 - and children - live in the ruins of a wealthier more peaceful world

- 10 - We may fuck things up for millions of years.
 11 - Once you know what is coming every subsequent thought is tinted ~~to~~ ^{we} tend to depression.
 12 - Myths - Progress, human centrality, separation from nature.
 13 - What - at this time - would not be a waste of my time?
 14 - 3 decades to fully decarbonize - on horizon
 15 - Panic & Despair Rising - But Consumers are

TIM DUGGAN BOOKS
New York

Expected to be asleep or eco nihilists
15 The Exciting Challenge is to make people plant
conscious Conscious
High States Bet - Science can only win by

losing
19 - Greenhouse Effect - Understood since 1850's
20 - we will choose our path, suicide or life
21 - The New World we step into will be suicidal to our own
Only place we know in the universe with this climate.
22 - Anthropocene Extinction has just begun (insects) -

So much more dying is coming.
23 A Civilization enclosing itself in *For Risa and Rocca,*
gaseous suicide, a running car in a sealed garage. *My mother and father*

25 - We make choices - we've chosen to wreck it
27 - The solutions are obvious and available. BUT
Problem is overwhelming.

33 - Warming Now has been 1.1°C Celsius
Since beginning burning fossil fuel.

227 Umm, lets figure out industrial level
carbon capture machines/Technology