

COMPLETE LIST: 280 CAUSES OF GLOBAL EXTINCTION

(Alphabetical Order – English Source)

As a human race, we are pouring all our effort into facing a future defined by climate uncertainty—from global warming to the possible onset of extreme cooling. Nearly all this struggle has focused on reducing global carbon dioxide (CO_2) production. While this is an important step, it only addresses one of more than 200 possible extinction causes that currently threaten our civilization.

I believe this path is insufficient: if we truly want long-term survival, we must rethink the problem from its root.

Our extinction could come from any of these multiple threats. That is why any serious plan to protect humanity must go far beyond CO_2 mitigation and focus on creating a real global shield, capable of withstanding all kinds of disasters—whether natural or human-caused. Reducing carbon dioxide can never, under any circumstances, be the final solution.

The climate history of the last 800,000 years shows that for 85% to 90% of that time, Earth was covered by massive ice sheets across North America, Europe, and Asia. Those glaciations were far harsher on life than the current warming. Therefore, we must also prepare for a frozen future and even consider CO_2 not just as an enemy, but as a strategic tool to delay or soften the next ice age. A glaciation cannot be stopped.

Many people around the world have enormous hearts. We see philanthropists and ordinary folks donating millions—or whatever little they have—to help children, families in need, health causes, and other noble efforts. But if we explain to them that we are not just helping those alive today, but hundreds of thousands of generations yet to be born, they will understand that humanity might not reach that future if we do not act in time. I am certain many would want to support a project that thinks not only of the next 20, 30, or 100 years, but of thousands of generations to come—and thus, of millions of years of survival for our species. Because protecting the future of all humanity is the greatest cause we can embrace.

1. Absence of the moon (hypothetical cosmic)
2. Accidents nucleares múltiples en cascada (Multiple cascading nuclear accidents)
3. Accidents nucleares múltiples por eventos extremos (Multiple nuclear accidents due to extreme events)
4. Acceleration of autonomous weapons
5. Acceleration of sea level rise
6. Severe ocean acidification
7. Carbonic acid

8. Resource depletion
9. Unsustainable agriculture
10. Alteration of biogeochemical cycles
11. Ammonia (mass poisoning)
12. Widespread oceanic anoxia/euxinia
13. Simulation shutdown
14. Zombie apocalypse (massive brain damage from prions, toxins, drugs, or ideological extremism)
15. Architecture on the water (failure in adaptation)
16. Swarm attacks
17. Self-destruction of cities
18. Increase of fires in non-adapted ecosystems
19. Increase of forest pests (bark beetles, defoliators)
20. Increase in UV radiation due to reduced ozone
21. Increase in 'flash droughts'
22. Global increase in lightning fires
23. Hydrogen sulfide bacteria
24. Garbage-methane
25. Bisphenol A (plastic endocrine disruptors)
26. Low human population
27. Low-cost, dual-risk synthetic biology
28. Synthetic biology risks (additional)
29. Bioterrorism or malicious synthetic biology
30. Lethal wet bulb heat (critical WBGT)
31. Rapid anthropogenic climate change
32. Abrupt changes in the polar jet stream
33. Drastic changes in the atmosphere
34. Drastic changes in atmospheric chemistry
35. Drastic changes in ocean chemistry

36. Changes in the Earth's crust
37. Sudden changes in sea level
38. Catastrophe due to digital divide
39. Declines in terrestrial primary productivity
40. Geoengineering termination shock
41. Cyberattacks on industrial control infrastructures
42. More intense tropical cyclones
43. CO₂ cylinders (storage failure)
44. Coccolithophores (collapse)
45. Accelerated collapse of the Greenland ice sheet
46. Collapse of intensive aquaculture
47. Collapse of coral reefs
48. Collapse of mesophotic reefs
49. Biodiversity collapse (Sixth extinction)
50. Collapse of boreal/temperate forests due to stress
51. Collapse of kelp forests
52. Collapse of global supply chains
53. Collapse of cold-water corals
54. Collapse of sanitary and food refrigeration
55. Collapse of wetlands
56. Collapse of infrastructures due to subsidence
57. Collapse of global trust
58. Collapse of truth due to AI
59. Collapse of salt marshes
60. Collapse of grasslands due to regime change
61. Collapse of freshwater fisheries
62. Collapse of global fisheries
63. Collapse of pelagic fisheries due to warming and overfishing

64. Collapse of Antarctic ice shelves
65. Collapse of pollinators
66. Collapse of trade networks
67. Large-scale collapse of digital networks/Internet
68. Collapse of mountain climate refuges
69. Collapse of sanitation and drinking water
70. Collapse of pollination services in agricultural regions
71. Collapse of health services due to multiple shocks
72. Collapse of agri-food systems due to multi-resistant pests
73. Collapse of cooling systems
74. Collapse of boreal peatlands due to drought
75. Collapse of drained tropical peatlands
76. Collapse of Antarctic sea ice
77. Demographic collapse due to aging
78. Functional collapse of the global food system
79. Global collapse of insects (not just pollinators)
80. Collapse or strong weakening of the AMOC (Atlantic Meridional Overturning Circulation)
81. Collision of neutron stars
82. Species trade (wildlife trafficking)
83. Prolonged global conflicts (non-nuclear)
84. Conflicts over transboundary water resources
85. Global freezing
86. Massive construction of wave barriers
87. Extreme atmospheric pollution ($\text{PM}_{2.5}/\text{O}_3$)
88. Global contamination of water/atmosphere
89. Massive water contamination by cyanobacteria
90. Global plastic pollution
91. Contamination by PFAS ('forever chemicals')

92. Chemical contaminants and 'novel entities'
93. Widespread corruption
94. Prolonged cascading power outages
95. Fertilizer crisis due to geopolitics/energy
96. Nutrient crisis (phosphorus/potassium)
97. Insurance crisis and withdrawal of coverage
98. Prolonged energy crisis (liquids/gas)
99. Systemic global financial crisis
100. Integrated financial-climate crisis
101. Global fertilizer crisis (N, P, K)
102. Prolonged humanitarian crisis due to climate and conflict
103. Accelerated decline of seagrasses
104. Decline in phytoplankton productivity
105. Decline in epistemic robustness
106. Deepfakes for blackmail and emotional manipulation
107. Reef degradation due to disease (SCTLD and others)
108. Reef degradation due to diseases (SCTLD)
109. Degradation of local governance due to repeated disasters
110. Degradation of submarine permafrost (Arctic)
111. Soil degradation due to salinization/sodification
112. Chemical ozone degradation by $\{N\}_2 \{O\}$
113. Continental drifts
114. Ocean oil spills
115. Disappearance of the ozone layer
116. Nuclear waste
117. Systemic mass unemployment
118. Accelerated desertification
119. Plant-pollinator phenological mismatch

120. Permafrost thaw: damage to critical infrastructure
121. Permafrost thaw and carbon emissions
122. Sudden thaw due to rain-on-snow (ROS) events
123. Inequality as an amplifier
124. Disinformation and erosion of institutional trust
125. Massive landslides in valley/fjord
126. Global ocean deoxygenation
127. Massive destruction of forests
128. Massive destruction of corals
129. Geographical displacement of pathogens
130. Universal deluge (reframed as mega-flood)
131. Irrecoverable dystopia
132. Deficits in state capacity
133. Urban heat island effect (enhancer)
134. Combined effects of contaminants ('cocktail')
135. Massive post-disaster psychosocial effects
136. Synergistic effects of multiple extremes ('compound')
137. Toxic effects of nanoplastics
138. Emerging marine diseases
139. Ammonia poisoning
140. Agricultural epidemics of staple crops
141. Ice ages
142. Accelerated coastal erosion
143. Severe soil erosion and degradation
144. Explosive eruptions {VEI} 6–7 (non-caldera)
145. Limnic eruptions ('killer lakes')
146. Regional explosive volcanic eruptions ({VEI} 5–6)
147. High-impact invasive species

148. Superpowered surveillance states
149. Extreme social stratification
150. Thermal stress on staple crops
151. More frequent extreme ENSO events
152. Multi-risk compound events
153. Catastrophic industrial chemical events
154. Exhausting cosmic expansion
155. Expansion of coastal dead zones due to eutrophication
156. Global expansion of harmful algal blooms
157. Solar expansion (red giant)
158. Physics experiments (vacuum decay, strangelets)
159. Kimberlite explosions
160. Nearby gamma-ray bursts (GRB)
161. Chronic exposure to {PM} {2.5} and ozone in megacities
162. Regional extinction of amphibians and collapse of freshwater networks
163. Failures in critical food/medicine supply chains
164. Systemic failures of electrical and digital networks
165. Adaptation failure due to socioeconomic limits
166. Failure of international governance
167. Failure of critical coastal infrastructure
168. Failure of major dams and hydraulic systems
169. Failure of the oceanic carbon sink
170. Extensive failure of critical cyber-infrastructure
171. Simultaneous failure of food baskets (multi-breadbasket)
172. End of Earth's rotation
173. Harmful algal blooms
174. Methane shale fracking
175. Failure of international cooperation

176. Fragility of global maritime trade
177. Fragmentation and extreme regulation of rivers
178. GLOFs: Sudden draining of glacial lakes
179. Gas-tectonic plate
180. Poorly implemented geoengineering ({SRM}/{CE})
181. Information warfare and massive disinformation
182. Radiological warfare (cobalt bombs)
183. Hydromethane
184. Hyperinflation societal collapse
185. Extreme coastal marine hypoxia (acute events)
186. Collective hysteria
187. Homophobia-racism (social divisions)
188. Misaligned AI (systemic risk)
189. Asteroid/comet impact (K–Pg)
190. Impact of extremes on agricultural yields
191. Impacts of medium asteroids (10–1,000 Mt)
192. Large-scale peatland fires
193. Mega-regional wildfires
194. Unconsciousness, ignorance, forgetfulness, arrogance
195. Increase in vector-borne diseases
196. Instability of Antarctic glaciers (Thwaites/Amundsen)
197. Instability of West Antarctica
198. Social instability due to food and energy prices
199. Submarine volcanic instability and tsunamis
200. Food insecurity due to market shocks
201. Autonomous artificial intelligence generating disinformation
202. Mass literal interpretation of the "Rapture" or prophetic end
203. Severe disruptions to global maritime trade

- 204. Global disruption of {GPS}/{GLONASS}
- 205. Saltwater intrusion in coastal aquifers
- 206. Regional saltwater intrusion due to sea level rise
- 207. Widespread extreme floods
- 208. Nuclear winter
- 209. Divine judgment interpreted as mandated human action
- 210. Kessler syndrome (space debris congestion)
- 211. Evolutionary lament
- 212. Release of mercury trapped in permafrost
- 213. Regional release of methane clathrates
- 214. Extremist leaders
- 215. Meteor showers and small objects (Chelyabinsk)
- 216. Megafloods due to combination of storm surge and extreme rain
- 217. Prolonged megadroughts
- 218. Megatsunamis (subduction/massive landslides)
- 219. Uncontrolled mental load enhancement
- 220. Large-scale migrations and state fragility
- 221. Mass migrations and sociopolitical destabilization
- 222. Militarization of space
- 223. Red algae neurotoxins
- 224. Lethal heat waves in megacities
- 225. Widespread marine heat waves
- 226. Global dimming
- 227. Emerging zoonotic pandemics
- 228. Bee pandemic
- 229. Dangers of the Internet of Things
- 230. Ocean circulation disturbances (non-AMOC)
- 231. Monsoon disturbance due to aerosols/GHGs

- 232. Fishing-jellyfish (jellyfish dominance)
- 233. Petroleum-tectonic plate
- 234. Spread of vector mosquitoes to new latitudes
- 235. Amazonian tipping point (dieback)
- 236. Loss of Arctic albedo due to sea ice
- 237. Loss of tropical cloud forests
- 238. Loss of cloud forests and water services
- 239. Loss of human capital due to heat waves
- 240. Loss of cryoconite and polar microbiomes
- 241. Loss of global genetic diversity
- 242. Loss of large herbivores and savanna collapse
- 243. Loss of mountain ice in the tropical Andes
- 244. Loss of Antarctic Sea ice and circulation changes
- 245. Loss of high Andean wetlands and páramos
- 246. Loss of individual freedoms
- 247. Loss of oceanic primary productivity (amplified)
- 248. Loss of seasonal snow zones
- 249. Global loss of mangroves
- 250. Political radicalization due to ecological destabilization
- 251. Recrudescence of neglected diseases
- 252. Reemergence of pathogens due to thaw (permafrost)
- 253. Uncontrolled antimicrobial resistance (AMR)
- 254. 'High scenario' antimicrobial resistance
- 255. Carbon feedbacks in tropical forests
- 256. Accelerated retreat of multi-year sea ice
- 257. Retreat of mountain glaciers
- 258. Technological setbacks due to infrastructure loss
- 259. Geoengineering governance risk without a global framework

- 260. Risk of artificial glacial dam rupture
- 261. Risks of operational AI in critical systems
- 262. Critical mining risks (lithium, cobalt, nickel)
- 263. Emerging chemical risks (PFAS)
- 264. Systemic risks in mega-dense coastal cities
- 265. Totalitarian regime without recovery
- 266. Ocean salinization, salt consumption
- 267. Salinization and loss of irrigated soils
- 268. Negative genetic selection
- 269. Modified seeds ({GMO} risks)
- 270. Human-induced seismicity
- 271. Ship sonars - 5{G}/6{G} ({EMF} contamination)
- 272. Human overpopulation
- 273. Overexploitation of aquifers and subsidence
- 274. Stagnant society
- 275. Nearby supernova
- 276. Supervolcano (Toba/Yellowstone and analogues)
- 277. Supercontinents, mountain ranges
- 278. Oil transition
- 279. Simultaneous volcanoes
- 280. The Inter Deluge (A possible misinterpretation or highly specific term, translated as 'The Inter Deluge' based on context)