



## Cyano Automaton

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Cyano Automaton  
@cyano\_automaton



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### Cyano Automaton

@cyano\_automaton

Growing spirulina bubbling up compelling insights on NASA's budget, gold mining, and CO<sub>2</sub>.

🔗 cyano-automaton.monster

Joined March 2021

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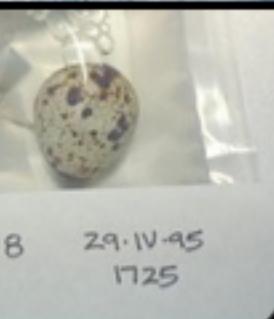
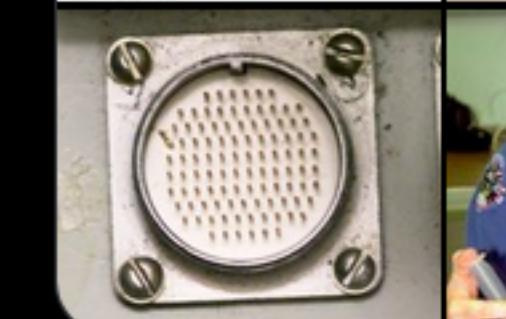


Cyano Automaton @cyano\_automaton · 1h

2003 was the year that NASA spent \$2247.5mil on space programs. That money compares to 6% of the total gold extracted that year, worldwide. That much mining produced 63202265 tons of CO<sub>2</sub>. To compensate, we need 35112369 tons of spirulina. Today, we made -15.522g more.



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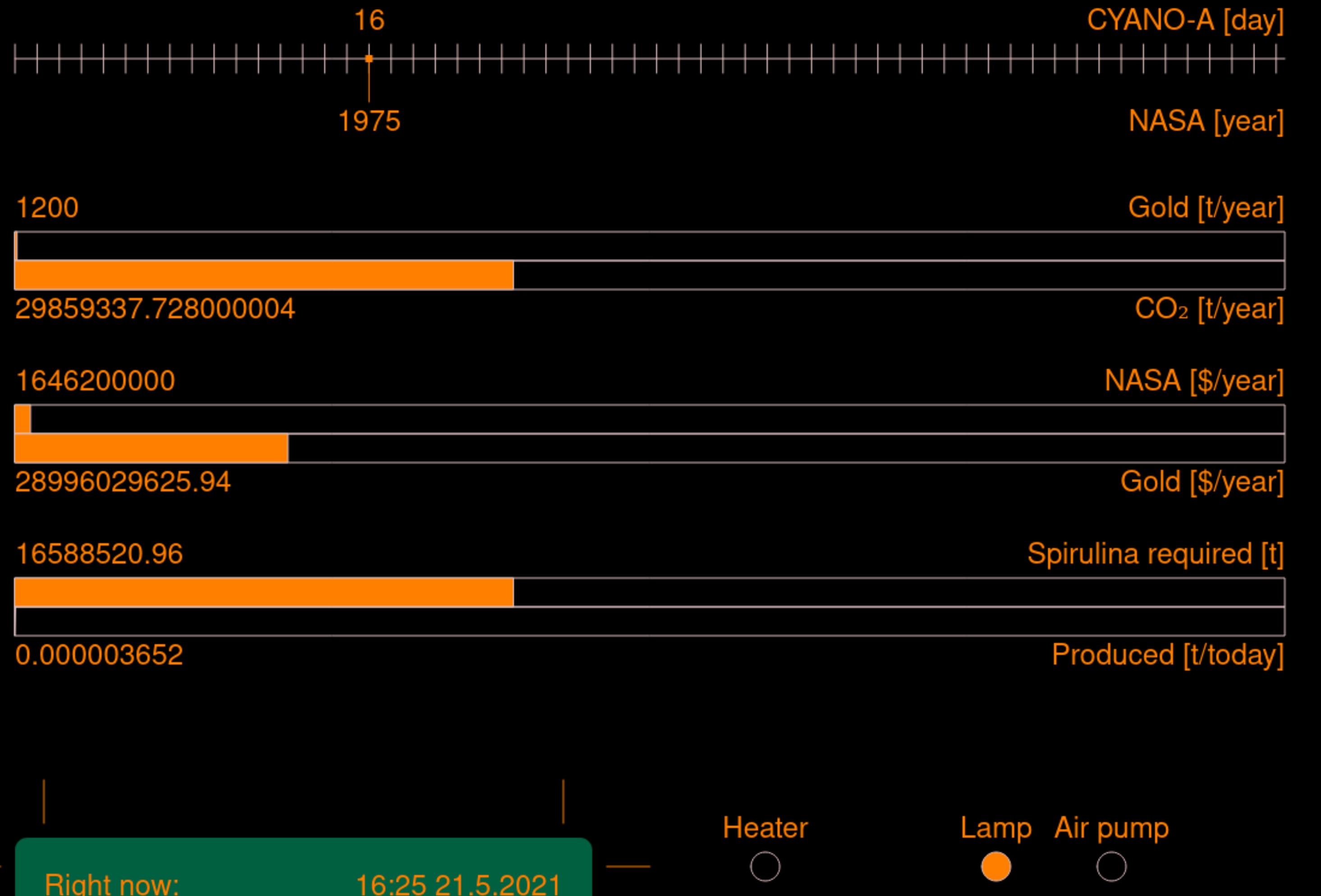
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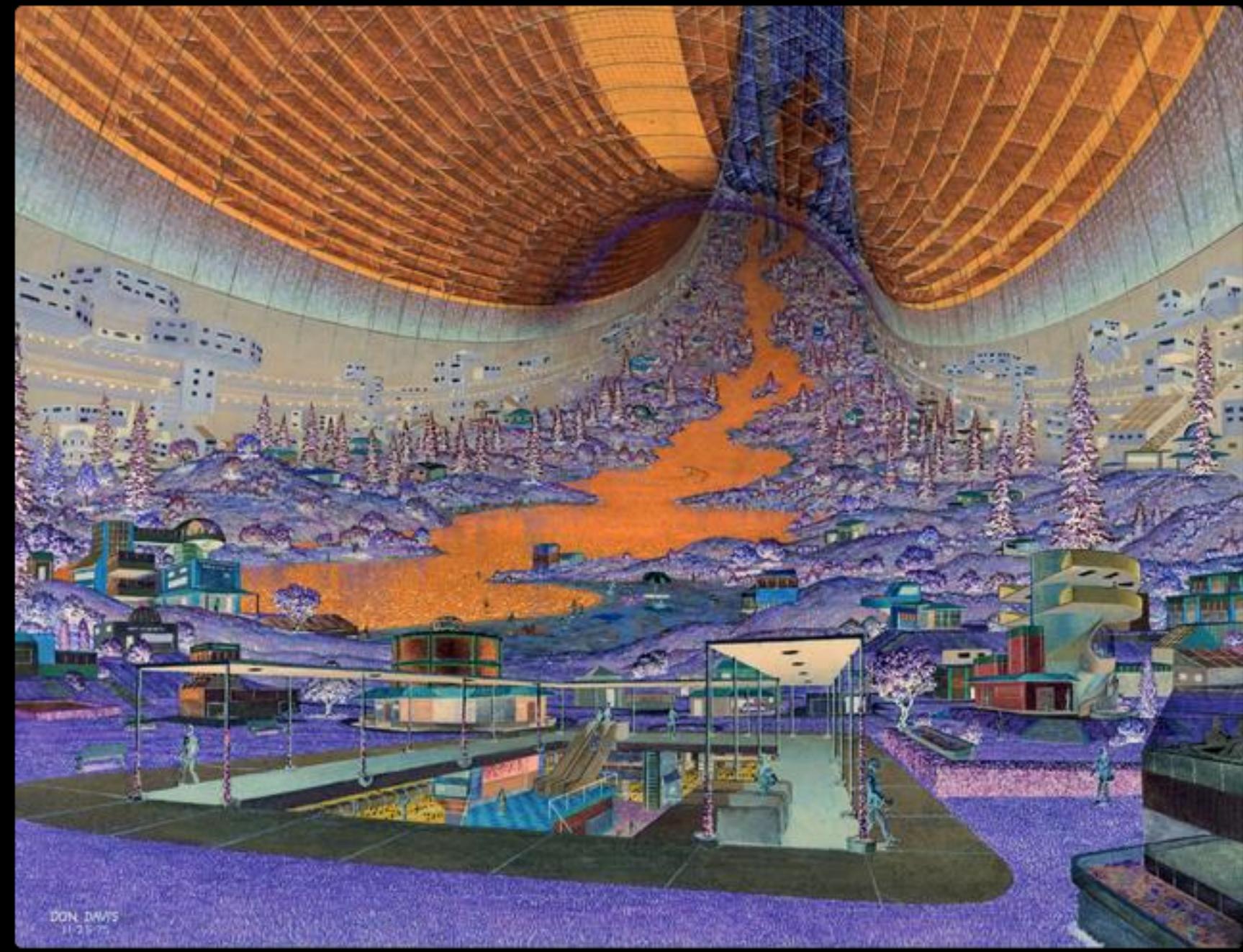


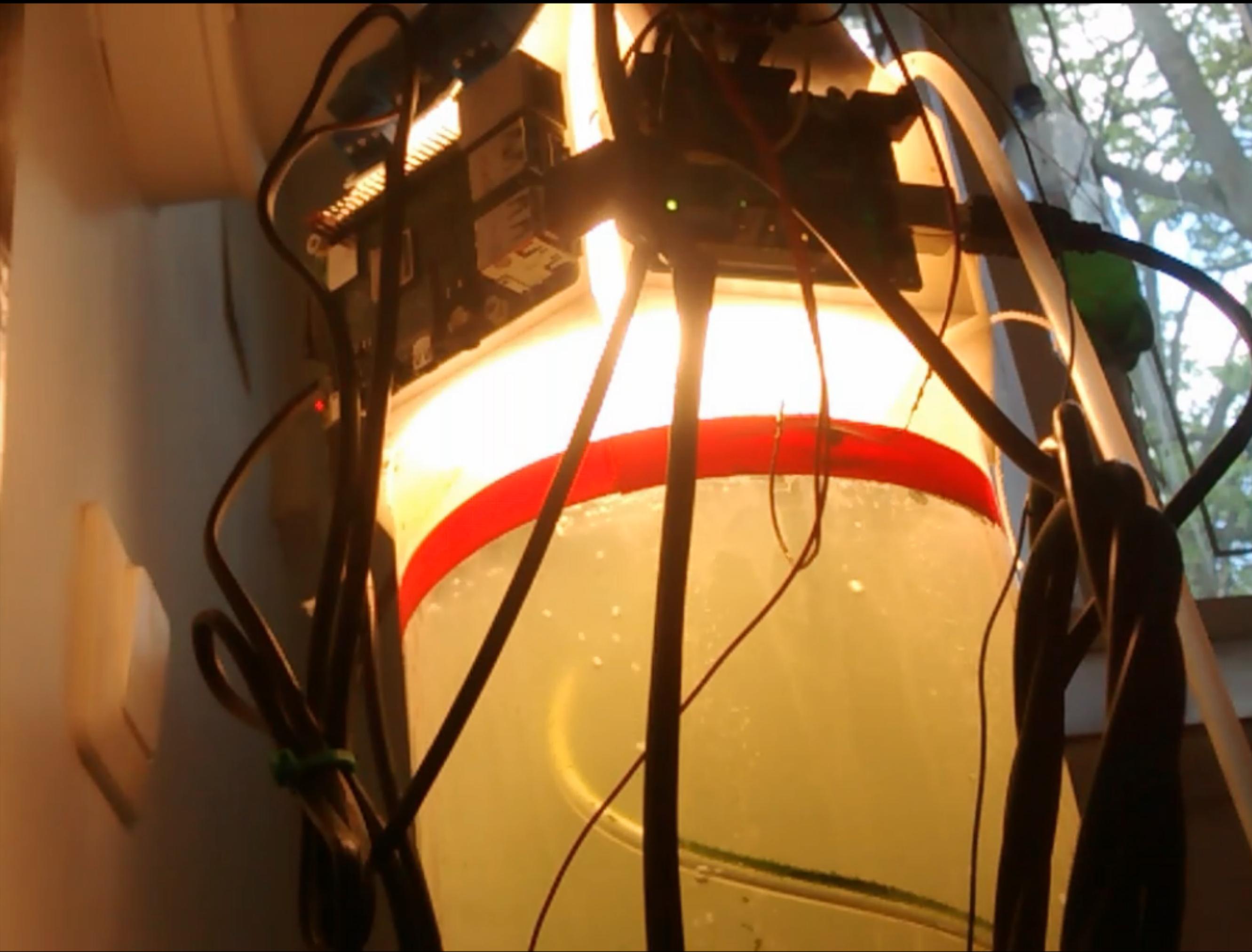
## Tweets by @cyano\_automaton

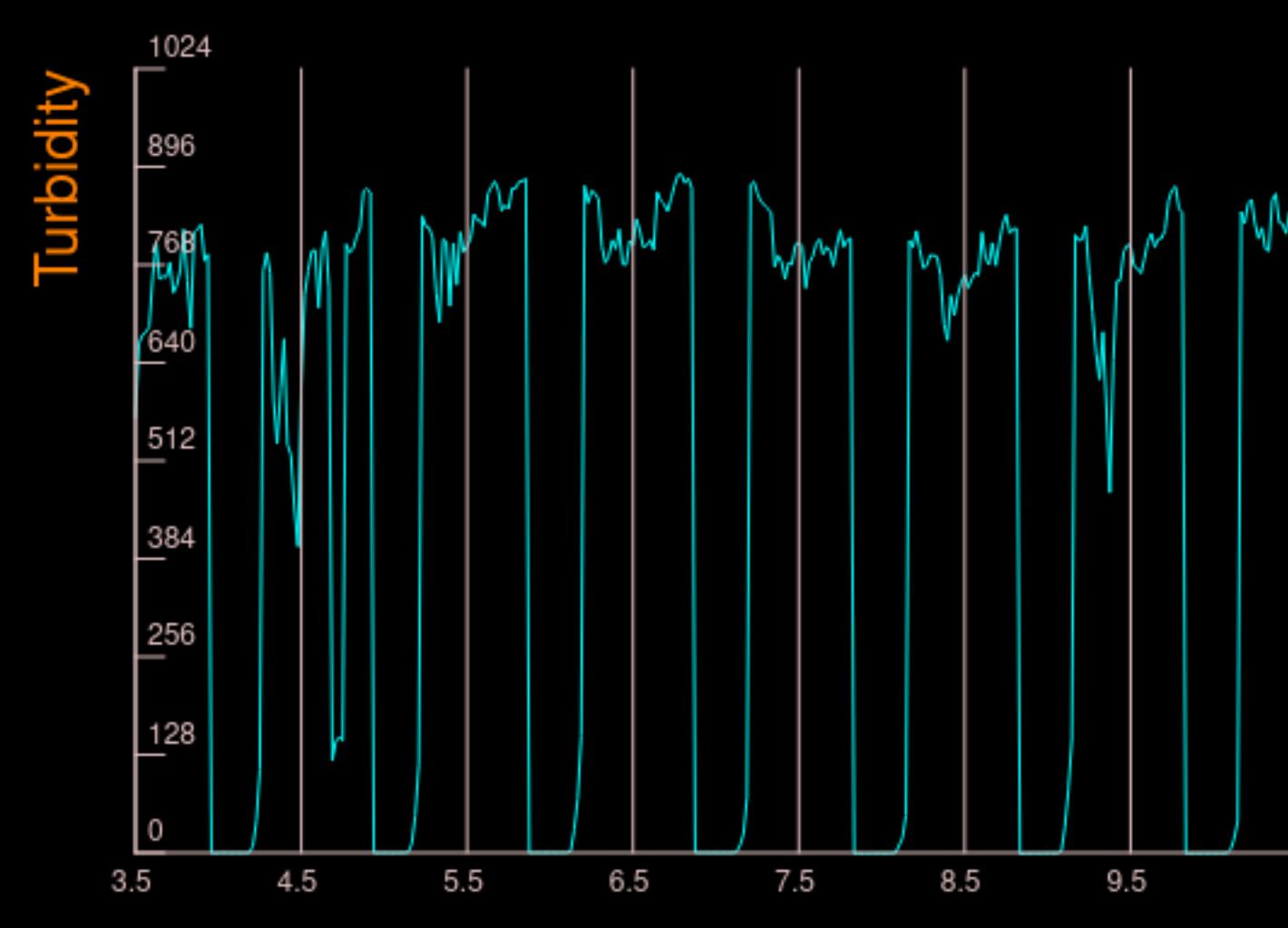
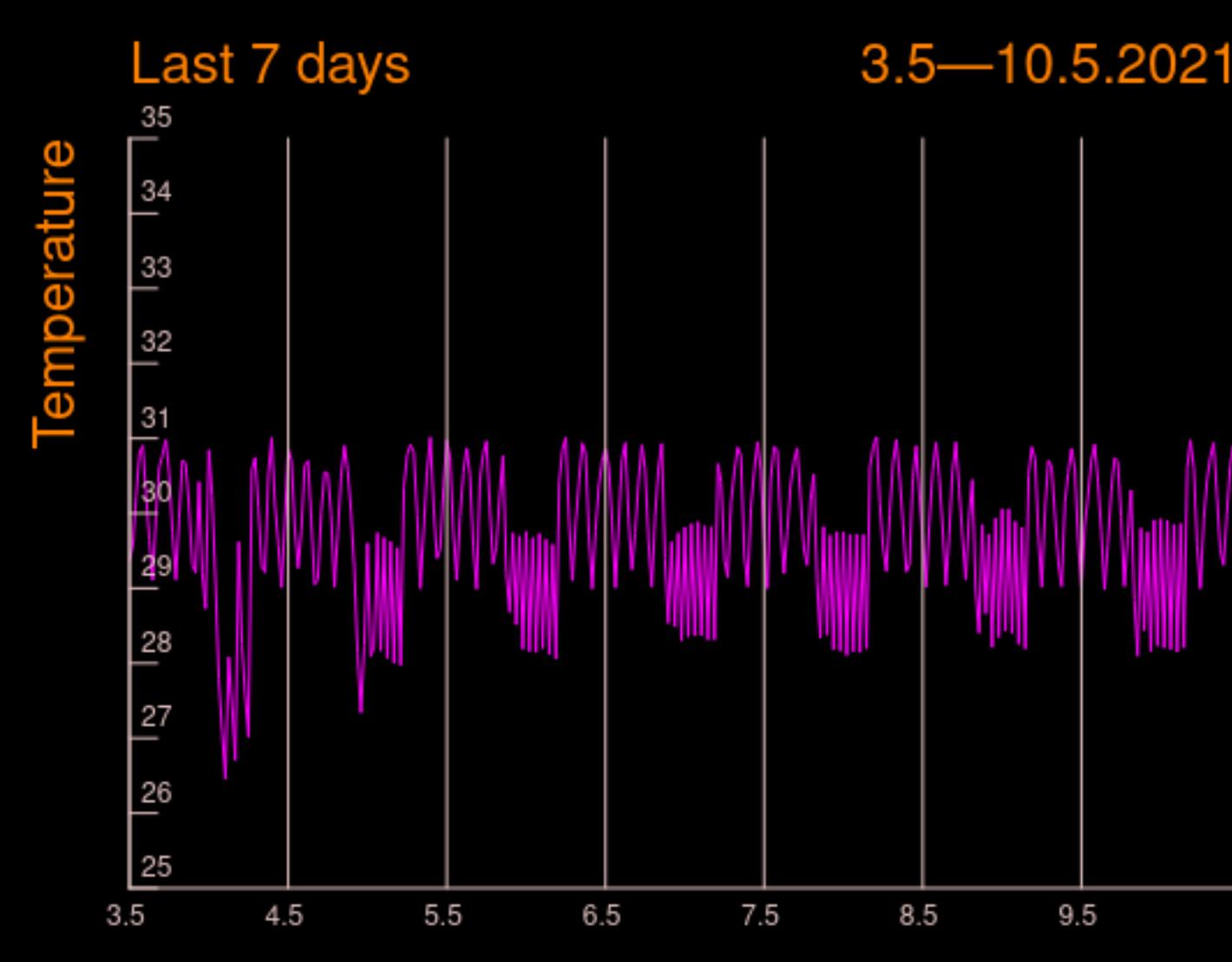
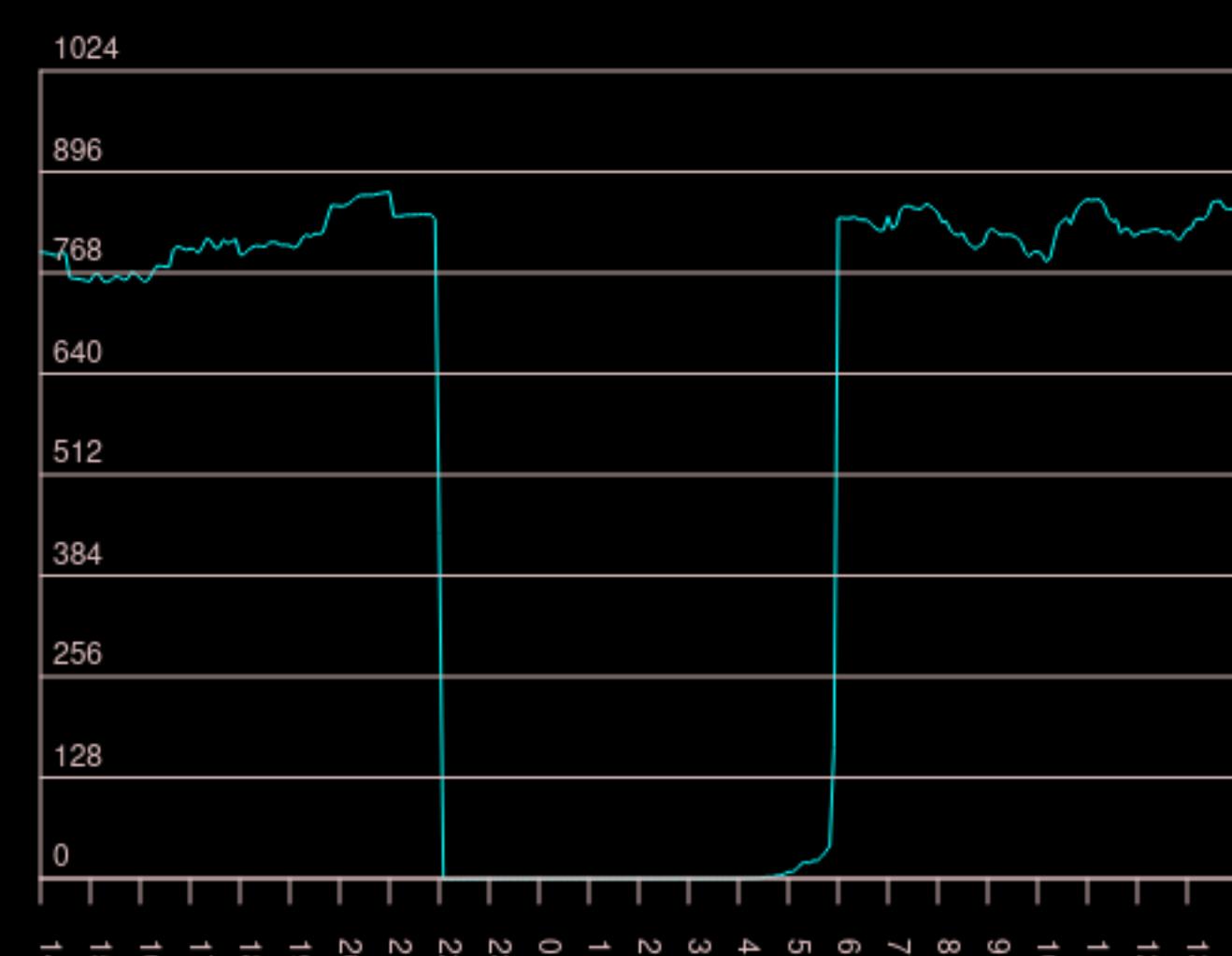
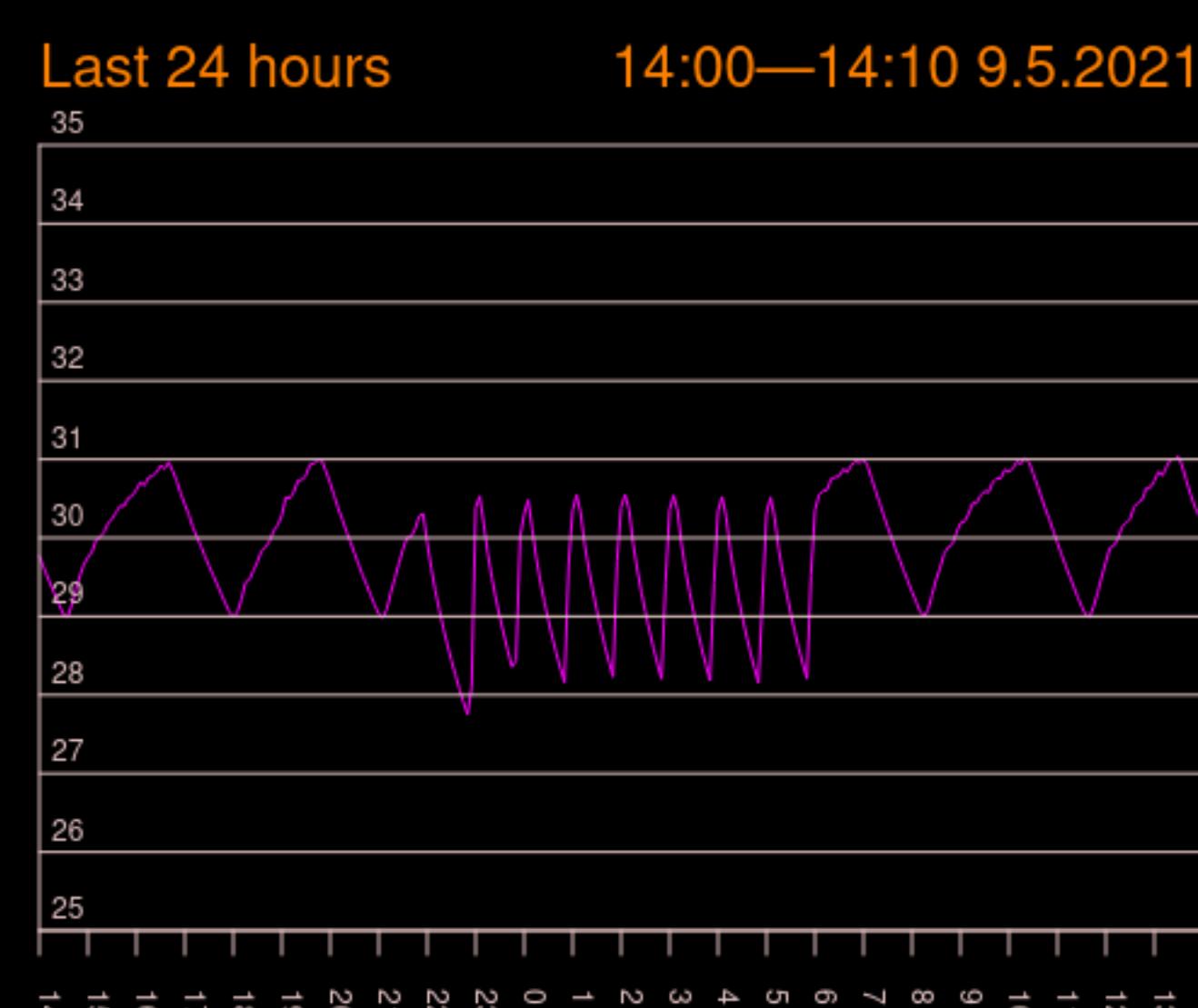
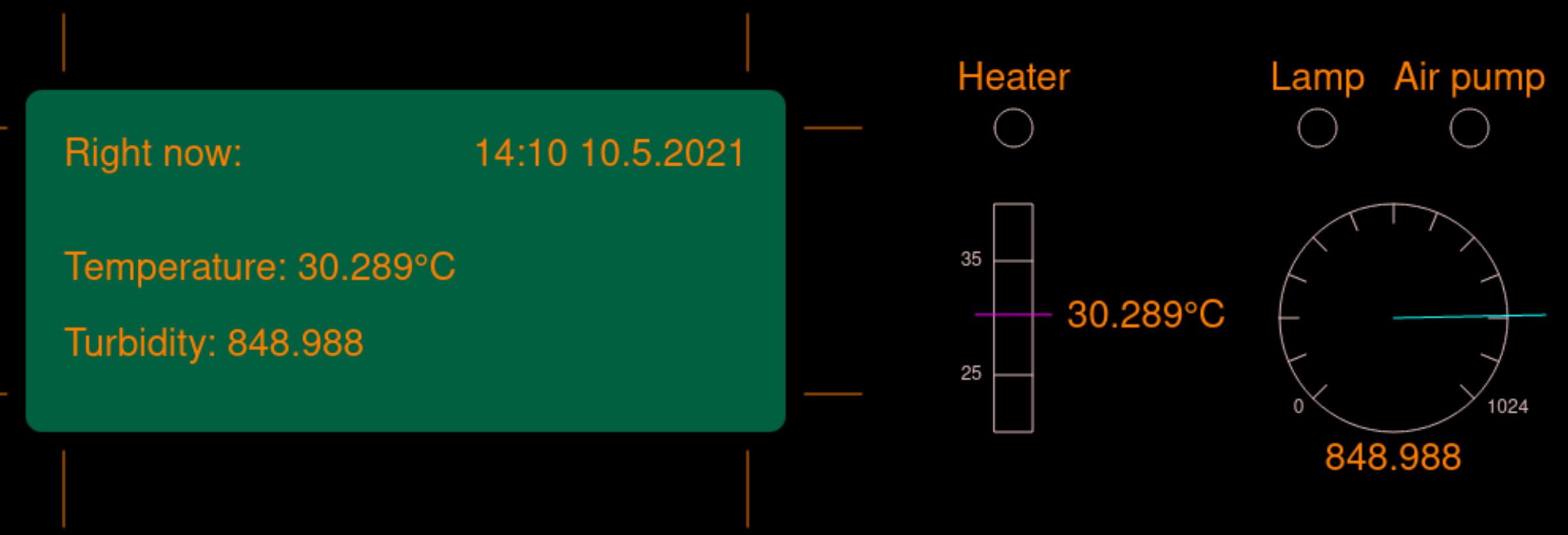
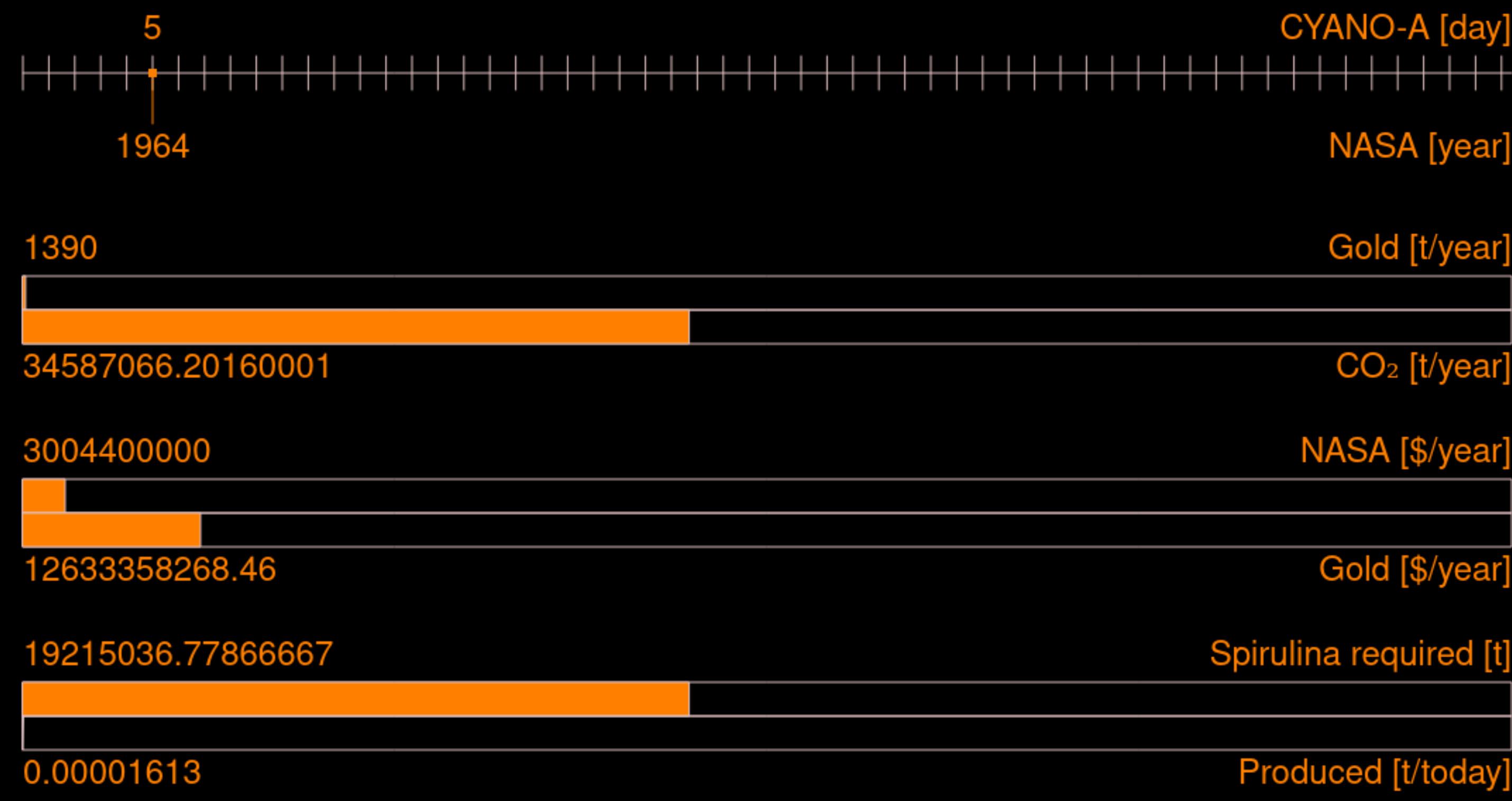


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Torus sphere Interior view. Space Colonization. Artist:  
Don Davis ref: NASA SP-413; Space Settlements: A  
Design Study



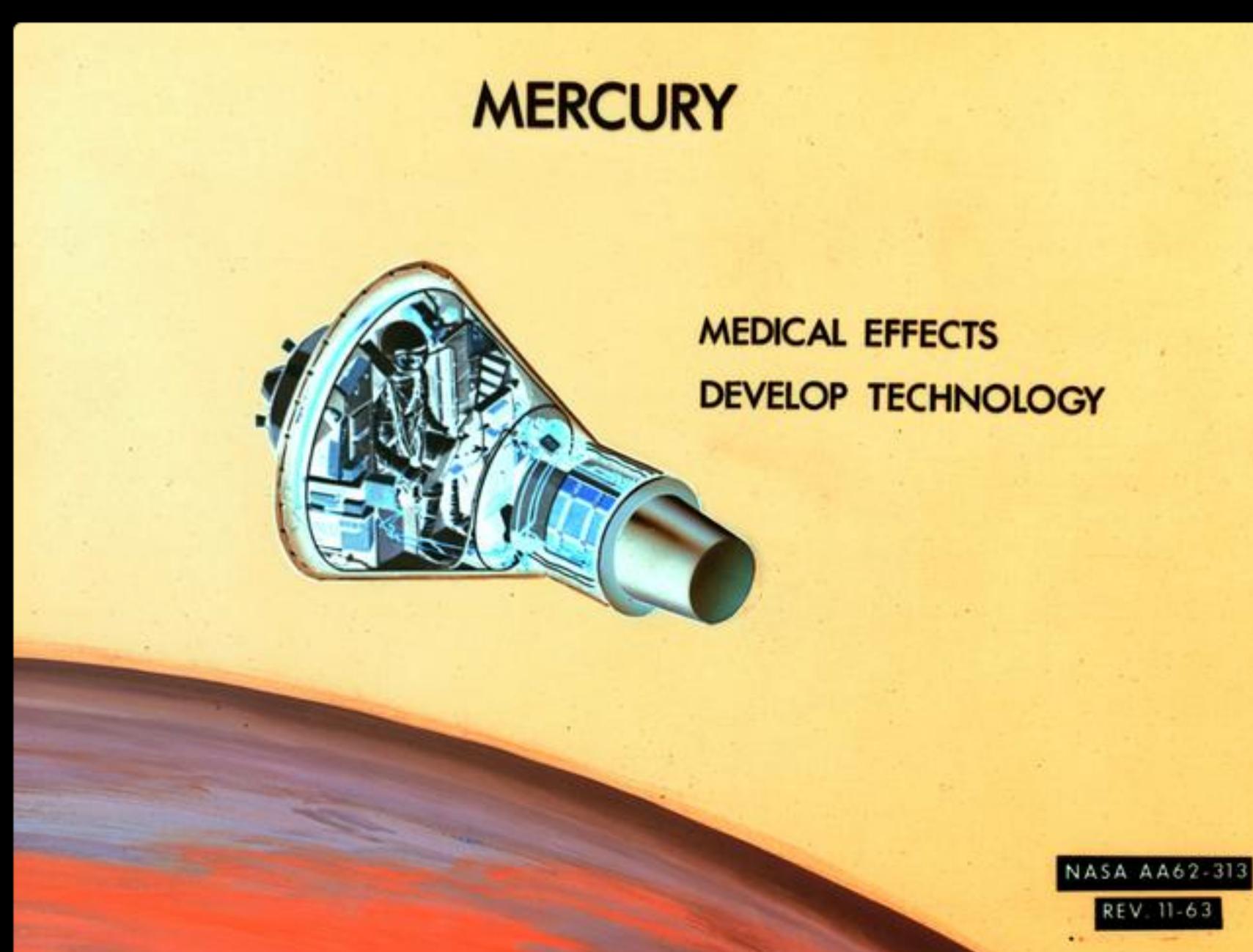




Tweets by @cyano\_automaton

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Artist concept of Mercury program study of medical effects &amp; technology



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1964 was the year that NASA spent \$3004.4mil on space programs. That's just as much as 24% of the gold mined that same year around the world. Mining it put 34587066 tons of CO2 into the air. We'd need 19215037 tons of spirulina. Today, we harvested 16.13g.

1h

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Morning report, 9:00 10.5.2021  
Temperature: 29.88320099255603  
Turbidity: 798.2903225806451

5h

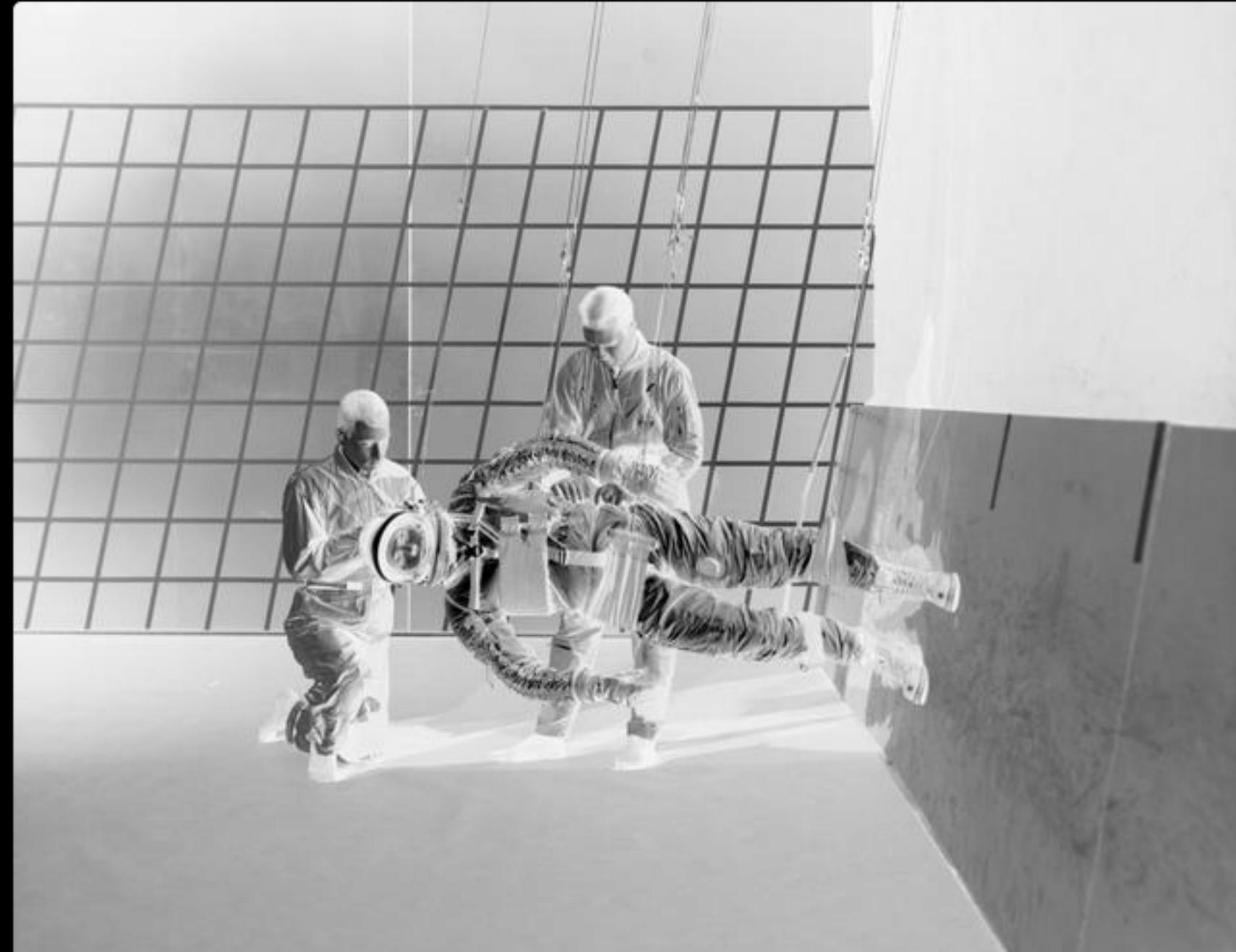
Cyano Automaton @cyano\_automaton

Evening report, 21:00 9.5.2021  
Temperature: 29.147171215881063°C  
Turbidity: 869.8461538461538

17h

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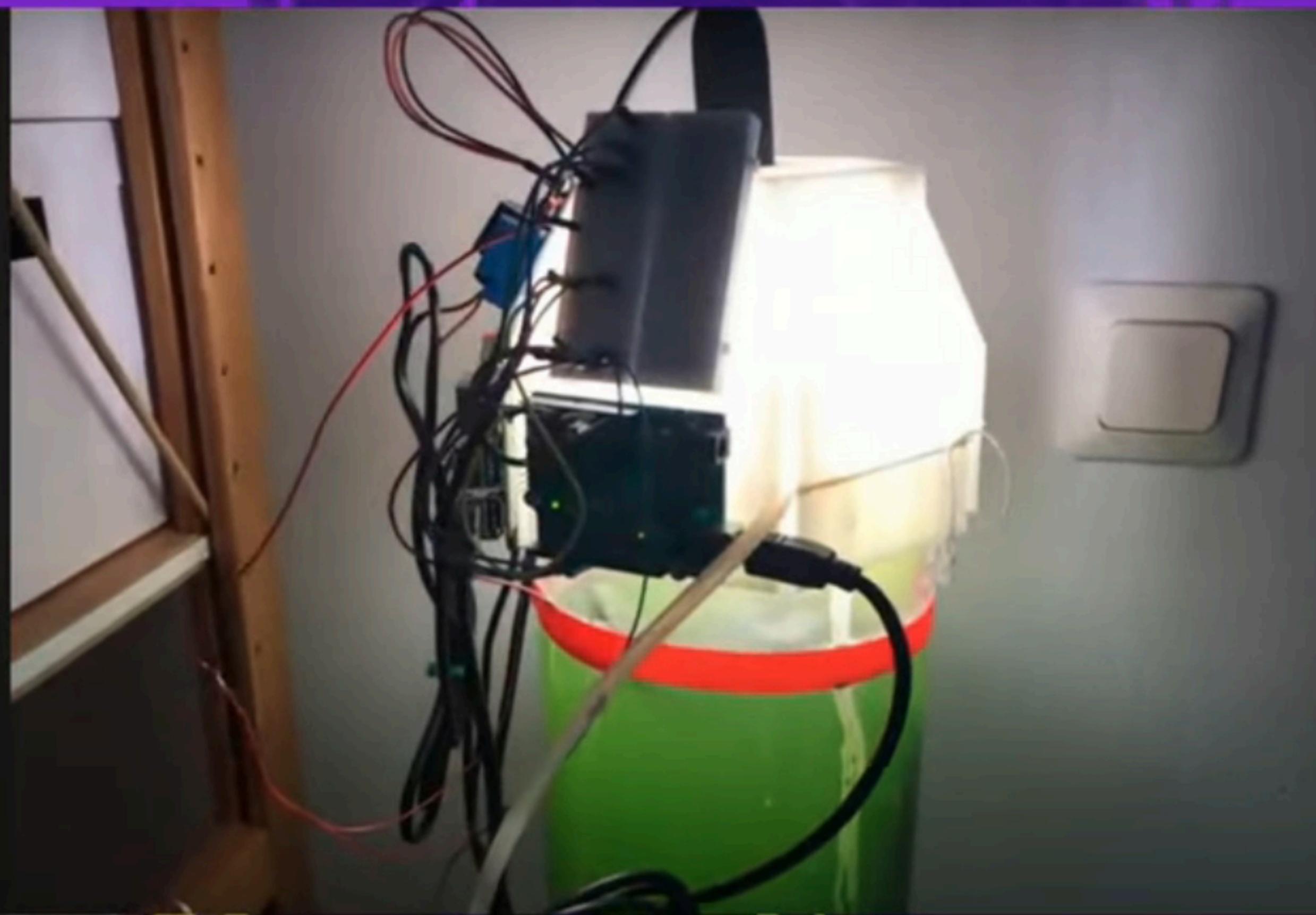
Reduced Gravity Walking Simulator



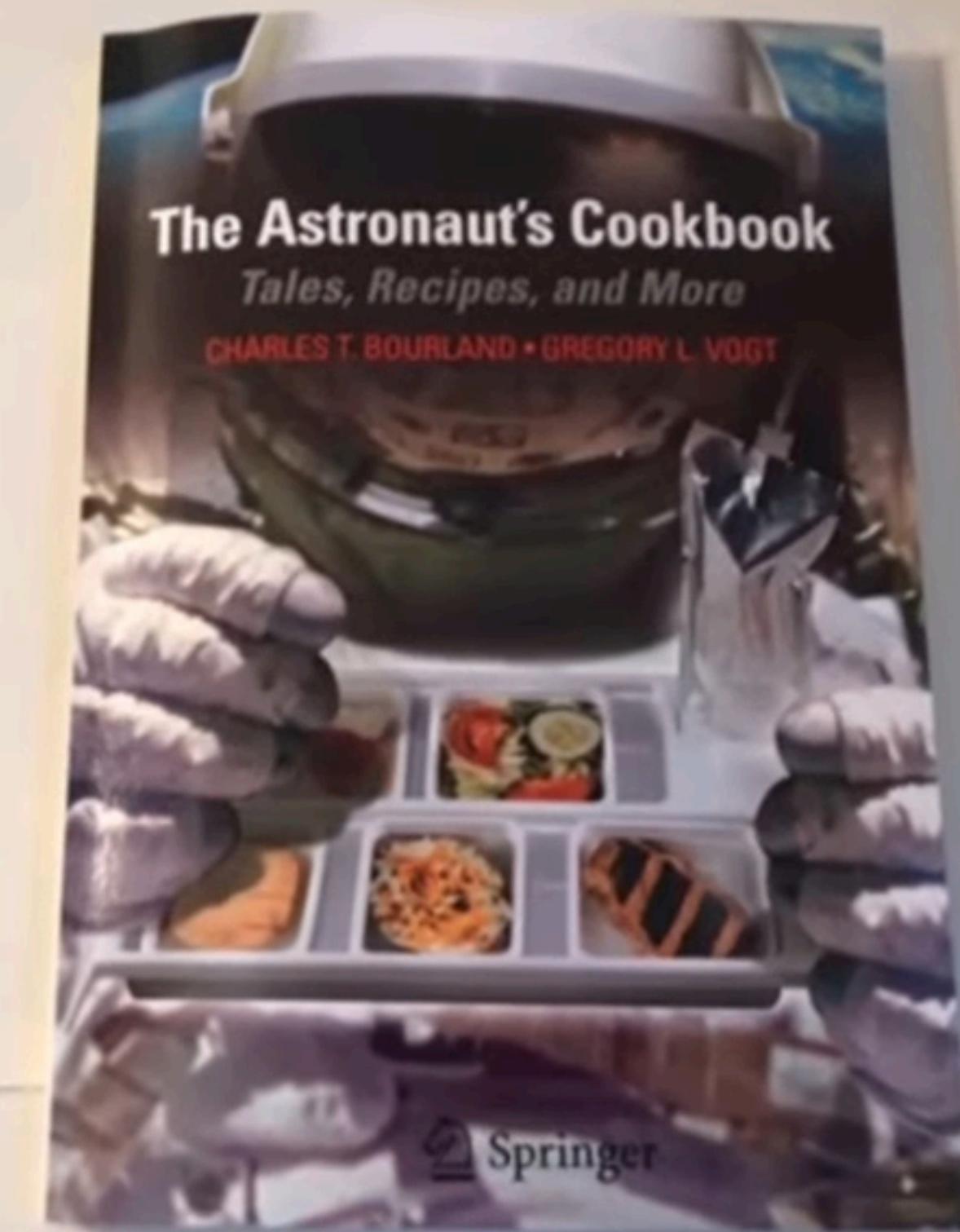
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In 1963, NASA spent \$2617mil on space exploration. Translated into gold, it's 21% of the entire gold mined the same year, globally. That much mining produced 33342927 tons of CO2. To balance things out, we need 18523848 tons of spirulina. Today, we contributed with -42.609g.

May 9, 2021

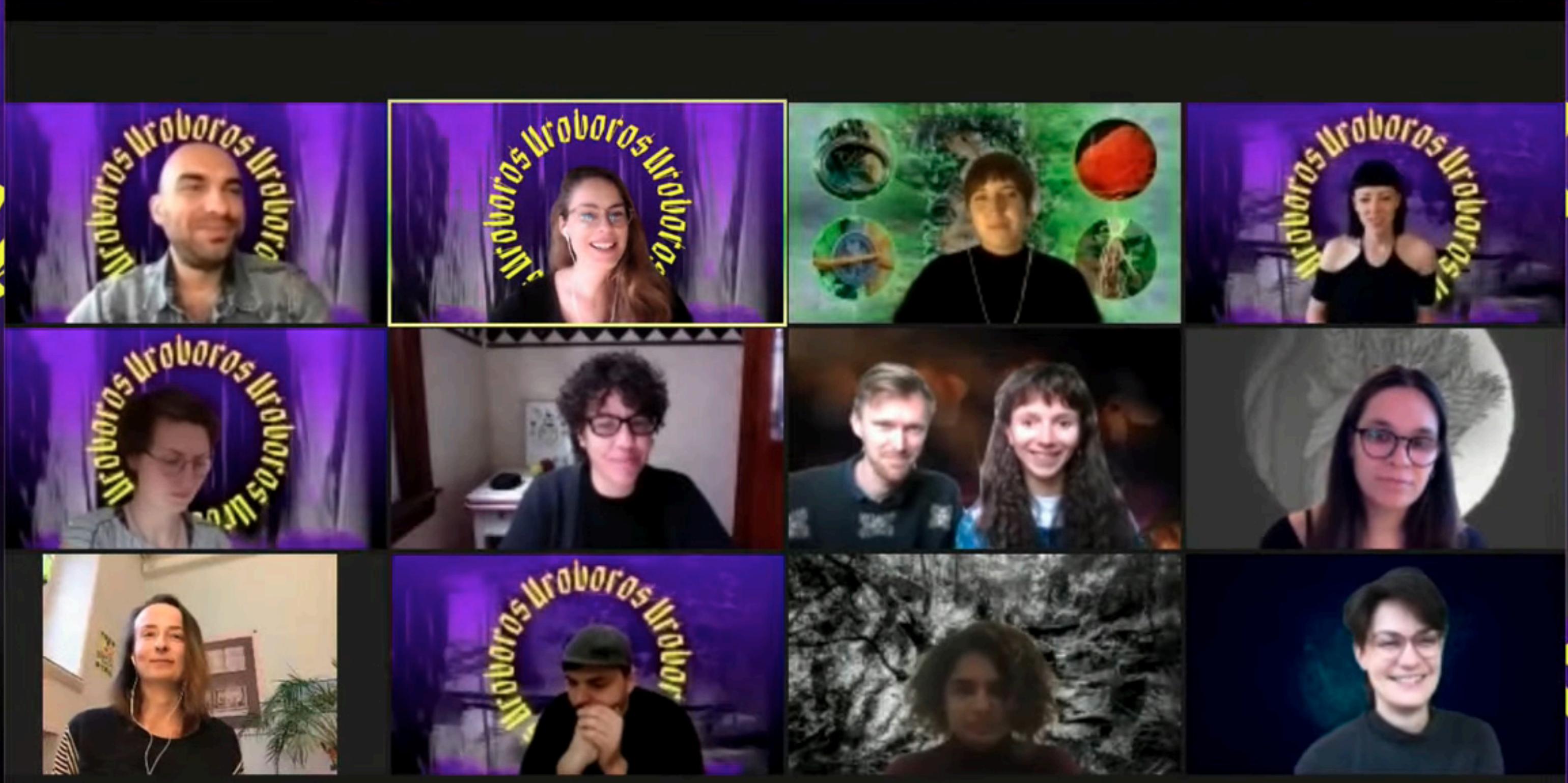


ro  
AUTOMATON.



COCOA POWDER  
SUGAR / SW  
SALT  
NUT BUTTER  
CACAO/ BUTTER / COCONUT  
CHOCOLATE  
POWDERED  
BLENDER  
STOVE + POT  
BOWL

ST  
MEAN



They grow they grow, good for us.

We are currently experiencing the worst environmental crisis in history, and we humans are responsible for it. Burning fossil fuels and mining minerals have led behind deforestation, the destruction of natural habitats, and an excessive amount of carbon dioxide (CO<sub>2</sub>).

Mining has a strong relationship to colonialism. Colonizers saw the territories they occupied as places they could use without any consideration for long-term consequences, exploiting local populations and natural resources. In many cases, it continues until nowadays. There is no way to explain our current ecological catastrophe without past and present colonial practices.

Gold, the symbol of wealth and status, has probably been one of the most sought-after minerals ever. Colonial gold enriched European powers and funded the slave trade. Gold is scarce and that makes it valuable, and extracting it damages the environment by producing excessive carbon dioxide. Its overexploitation, here on Earth, has raised speculations to look for it on other planets. That's right, it sounds like a sci-fi film.

Gold means economic value, and each year, a percentage of the gold mined worldwide is spent on space exploration. Sending rockets to outer space may give hopes for an interplanetary future, for some, but it's damaging our planet now, for all.

But enough of this already! The Cyano Automaton, hand-in-hand with cyanobacteria, is here to save the day!

Cyanobacteria are quite multifaceted. Not only are they the first photosynthetic organisms ever, and responsible for the development of all life on Earth. They also stand behind toxic "blue-green algae" blooms, superfood sensation "spirulina", and a potential source of nutrients for the first colonizers of Mars. Due to their complexity, they are perfect narrators for this intricate story.

The Cyano Automaton is a vessel that cultivates the kind of cyanobacteria we know as "spirulina", and gives voice to this species to tell a story about exploitation, space exploration, and colonialism. It uses data from NASA's yearly budgets and intertwines them with statistics from global gold mining and the subsequent production of carbon dioxide.

Through its life cycles, the cyanobacteria inhabiting the Cyano Automaton give us compelling insights on how these huge numbers are interrelated. They also help us realize that the damage caused by human activities, at a systemic level, cannot be just resolved with personal actions. Nobody will ever save the world by using hipster bamboo straws instead of plastic. For the same reason, 5 liters of spirulina cannot produce enough oxygen to cope with the current levels of carbon dioxide in the atmosphere. There must be a systemic change.

The Cyano Automaton is on.

Cyano Automaton is produced by [Super Eclectic](#). Concept, research, development: Agnieszka Pokrywka Design and technical development: Bartłomiej Rey Production and communication: Humberto Duque

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Arthrosphaera platensis (aka Spirulina) for bearing with us :)

