

# Synergies between A4E and Sustainable HEP



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@astro4earth



<http://astronomersforplanet.earth>



## What is the idea behind A4E?

Be the sustainability  
movement in astronomy

Provide the astronomical  
perspective in the  
sustainability movement





# ASTRONOMERS FOR PLANET EARTH





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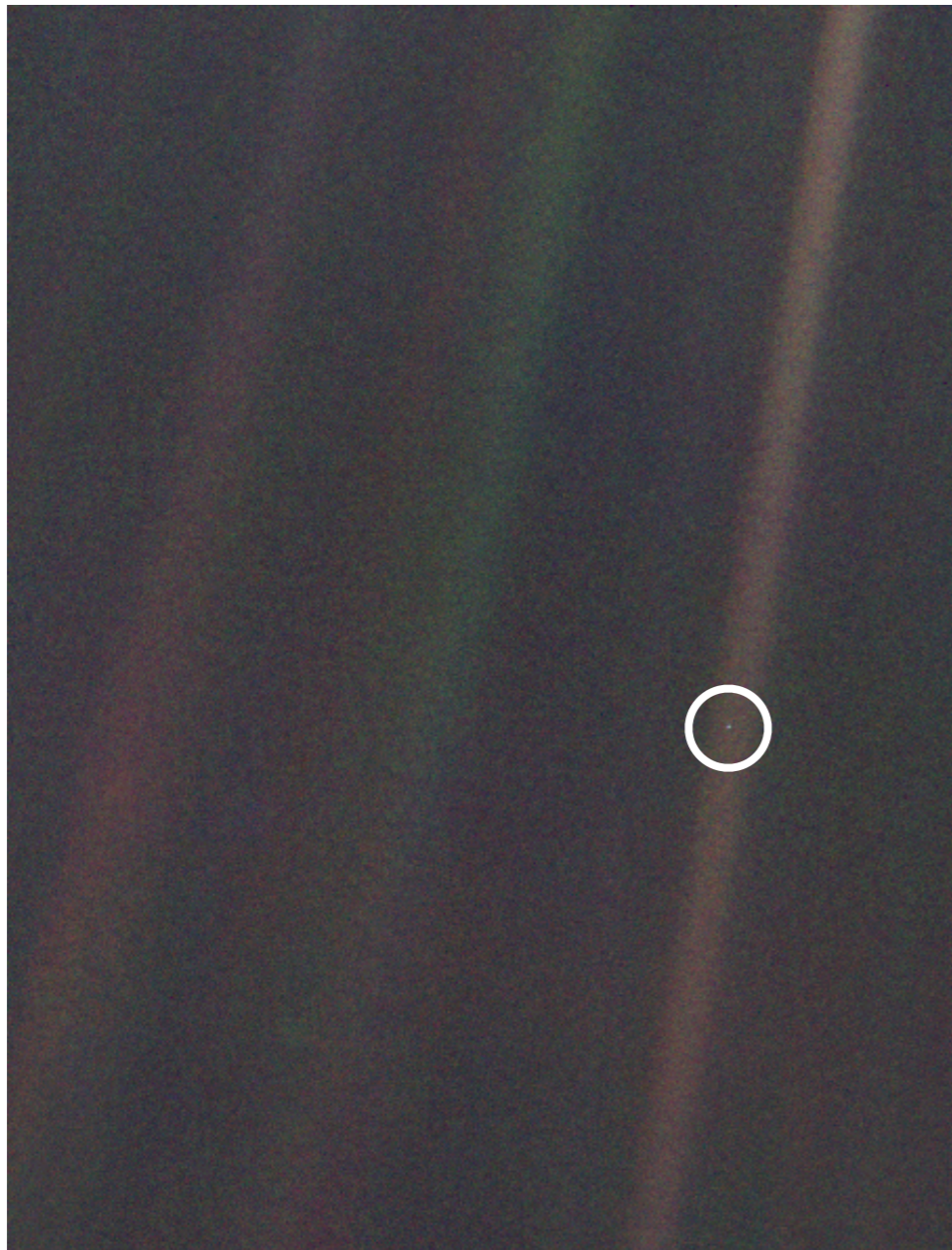


The Pale Blue Dot" is a photograph of Earth taken Feb. 14, 1990, by NASA's Voyager 1 at a distance of 3.7 billion miles (6 billion kilometers) from the Sun. (Credit: NASA/JPL-Caltech.)





## The astronomical perspective



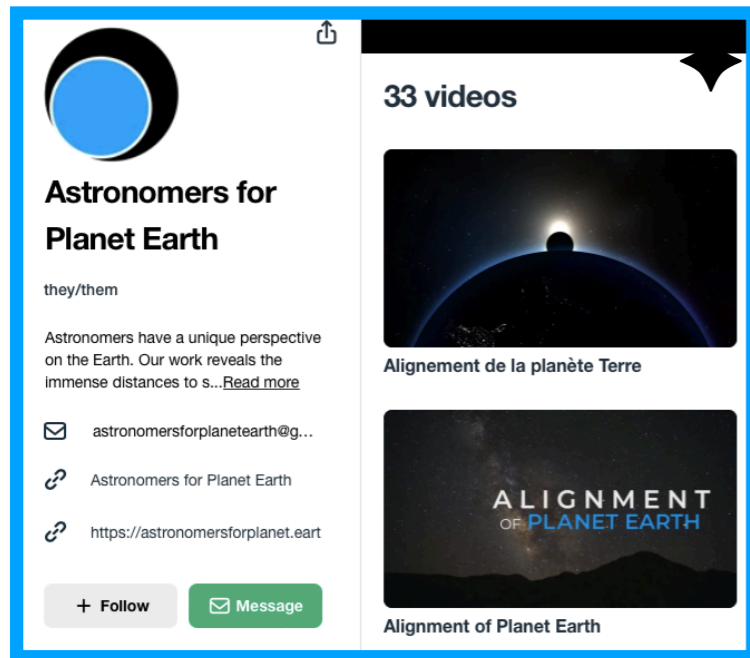
- ◆ There is no Planet B
- ◆ Planet Earth is a unique ecosystem
- ◆ we must preserve and protect it
- ◆ astronomy ignites emotions
- ◆ uniquely situated for science and climate communication





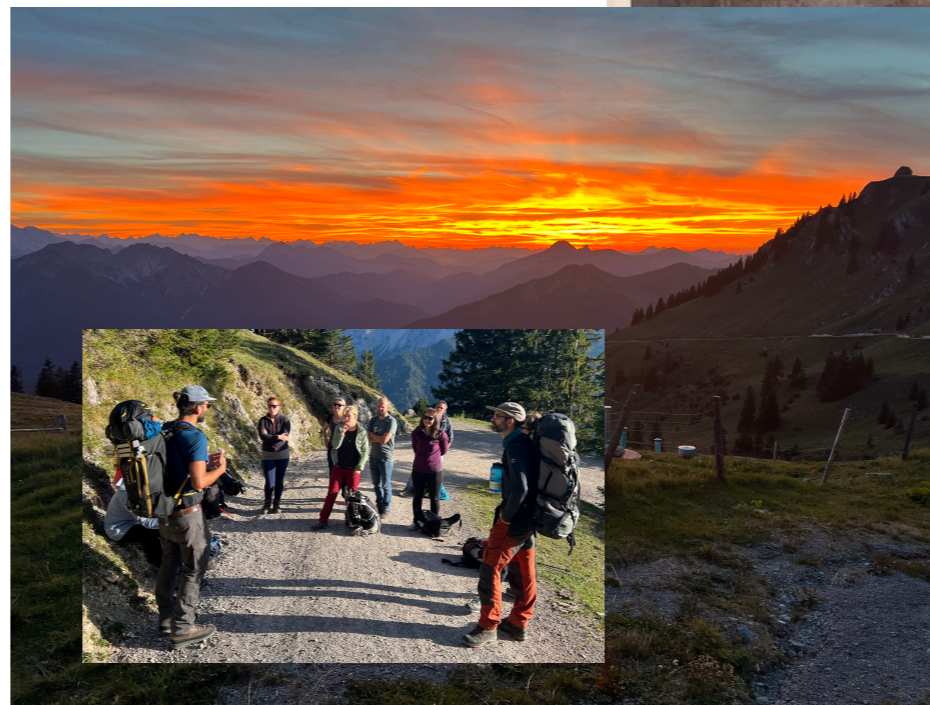
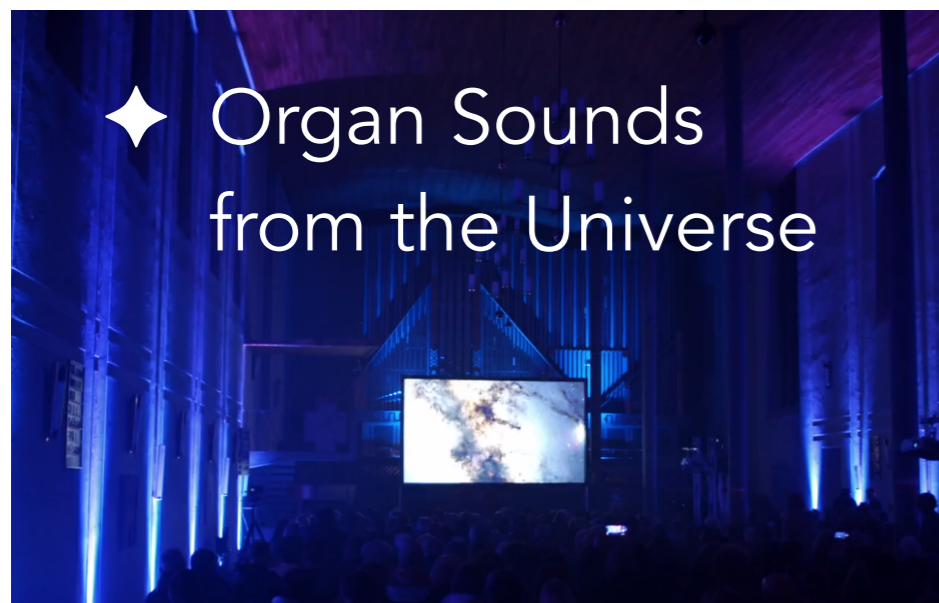
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## Examples for sharing astronomical perspective



outreach videos (e.g. solar eclipse)

◆ hiking and stargazing





## Sustainability Movement in Astronomy

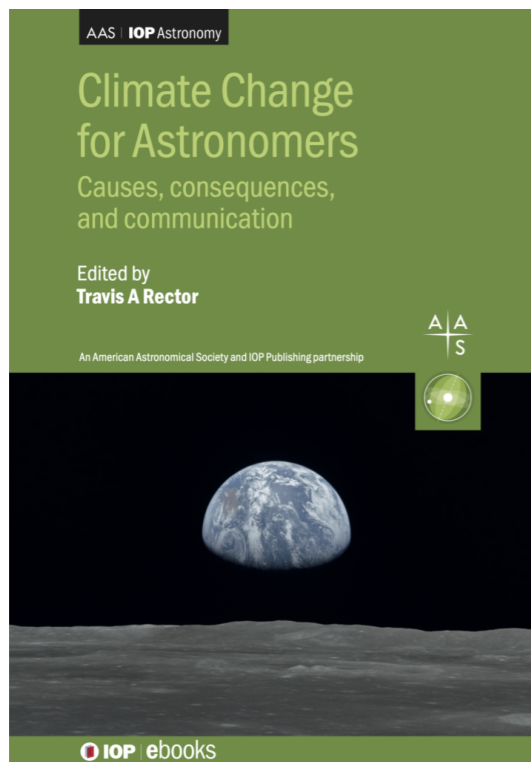
- ◆ scientists must act according to research
- ◆ astronomers have significantly larger CO2 footprint than average citizen of Planet Earth
- ◆ we want to ensure that we can keep doing astronomy
  - ◆ funding
  - ◆ observatories
- ◆ find best practices within the community, ignite constructive conversation



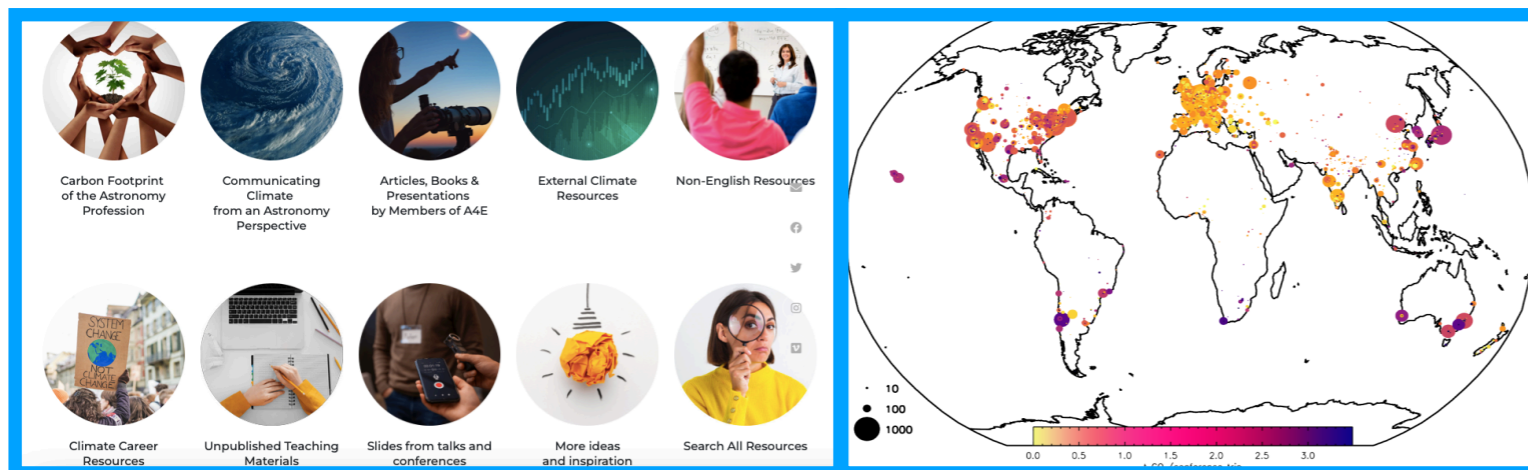
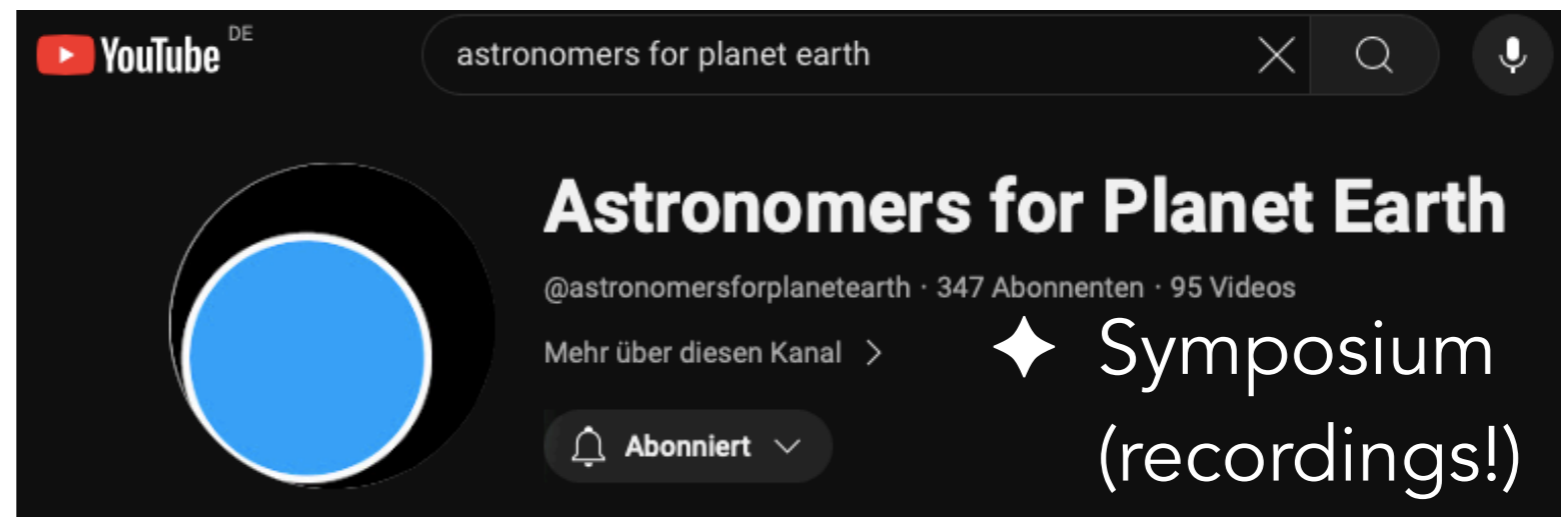
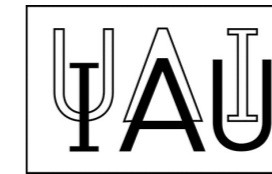


## Examples for transforming our field

◆ teaching book



◆ communication with astronomical societies



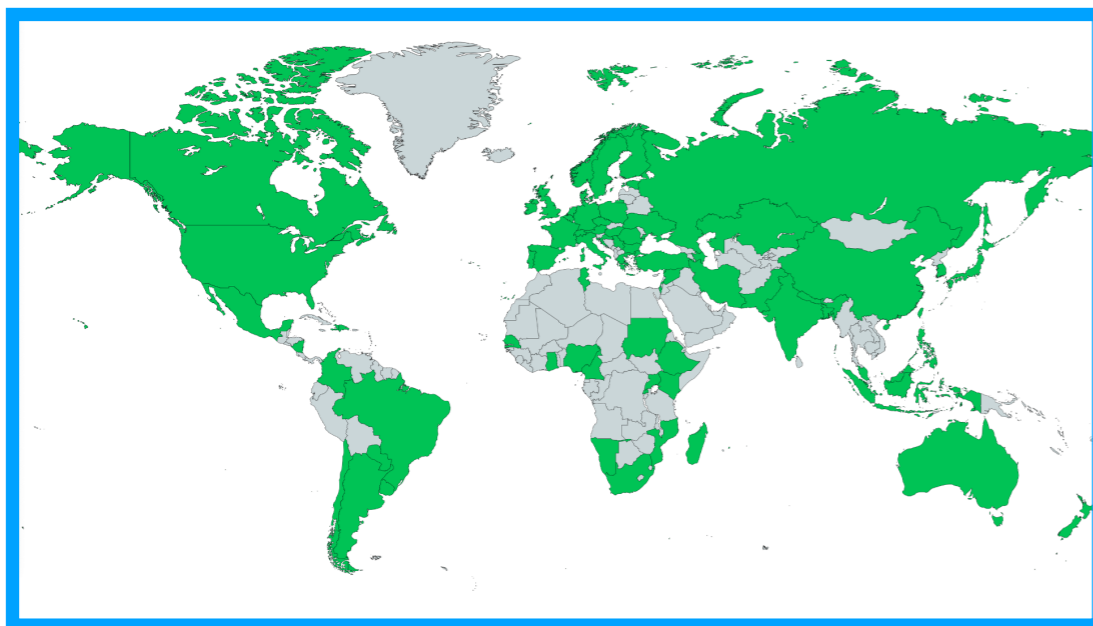
◆ resources on website such as publications, jobs and presentation materials



## How A4E works

### grass roots

>1700 members from 74 countries involved in many different activities and projects



### charity

legal entity capable of taking donations, small group of people





## Synergies with HEP and outlook

Strengthen exchange  
between organizations

A4E Five Year  
Anniversary in  
November

Webinars

Super  
computing

Astroparticle  
physics

GRAND  
project





# ASTRONOMERS FOR PLANET EARTH

Facing the climate crisis can make us feel as powerless as a paramecium in the ocean. But look again at that Pale Blue Dot. Our whole world occupies only 0.12 of the 640,000 pixels in that frame and yet it holds creatures who are able to capture its image from a vast distance. Let your support and activism be the fraction of a pixel that turns the picture of our shared future into an inspiring work of art for you and the people around you.

**Thank you!**



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Questions?

Ideas?

Problems?

Feedback?

Thank you!

