

2020

#PlanetaryScience4all 1st Edition Report



EPEC-EPSC
4-minute video contest

#PlanetaryScience4all



Report by:

Melissa Mirino

Co-Chair

EPEC Communications WG

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1. Summary and Description

#PlanetaryScience4all (#PS4all) is a 4 minute video contest created by the EPEC Communication Working group in support of the EPSC 2020 virtual meeting. The contest is the result of many months of work in collaboration with Europlanet social media group.

During the year 2020 the contest was open to PhD students to test the idea and identify the correct target for this type of competition. Based on this year, I feel confident to say that the competition could be open also to Bachelors and Master students who developed a Thesis work in the field of Planetary Science. Here, I am reporting all the information related with this year (2020) activities. Another Report called “Report_PlanetaryScience4all_2020_internal_use_only” have been produced for future organizers to find all the materials, improvements and suggestions for next year #PS4all organization. I hope that the following Report will support and help other future organisers of this competition and will help in developing further strategies for other new EPEC activities.

All the information reported in this Report (forms and URLs) are updated at October 2020.

2. Produced material

In this section I am reporting all documents and material created for the #PlanetaryScience4all video contest 2020. When possible, I included the URLs of the pages created in the Europlanet-EPEC web-site or in social media.

2.1 Official published call

Here I am reporting the #PS4all 2020 call as it was published on the Europlanet web-site. The call is available at:

<https://www.europlanet-society.org/early-careers-network/epec-communications-group/planetaryscience4all-video-contest/>

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#PlanetaryScience4All EPEC-EPSC 4-minute video contest: Call for PhD students and early career researchers

The Europlanet Early Career (EPEC) Communication working group is giving all PhD students and early career researchers involved in planetary science the opportunity to showcase their research through a 4-minute video contest called #PlanetaryScience4All.

All videos will be shown during a dedicated session during the Europlanet Science Congress (EPSC) 2020, which is being held as a virtual meeting for the first time from 21 September – 9 October. The winner will be announced at the end of the virtual conference.

#PlanetaryScience4All challenges PhD students and early career researchers to explain their research project to a general public audience in just 4 minutes. The videos will be judged on scientific content, communication skills and creativity.

The winner of the competition will receive a free registration for EPSC 2021, which will be held Helsinki, Finland, from 19-24 September 2021. The winning video will be also shared via the Europlanet website, newsletters and social media and will be used to inspire young people in future EPEC outreach activities.

Entries are welcome on all planetary science related topics (atmosphere, surfaces, models, analogues, simulations etc) applied to any planetary bodies (planets, asteroids, comets, meteorites, exoplanets).

The 4 minute videos should be submitted as a link via the entry form.

The deadline was 31 August 2020. The competition is now closed

If you have any questions about the #PlanetaryScience4All video contest, please contact: epec.communications@gmail.com.

2.2 FAQs

In support of the “Call for submission” some Frequent asked questions were also included to clarify further details about the video contest. Here, I am reporting the FAQs as published in the web-site.

Available at: <https://www.europlanet-society.org/early-careers-network/epec-communications-group/planetaryscience4all-video-contest/>

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- **Who can enter?**

The competition is open to all PhD students and early career researchers (last degree obtained a maximum of 7 years ago, excluding parental leave, serious illness and similar delays) working in planetary science or related fields.

- **Is there a specific topic or subject area?**

There is no specific topic. All research topics related to planetary science are welcome (planets, asteroids, comets, meteorites, astrobiology, analogue missions, space instrumentation etc).

- **Is there an age limit?**

The competition is open to all PhD students and early career researchers with no age limit.

- **How can I submit the video?**

To enter the contest, fill in the application form. In the form, you will be asked to submit a link to your video and tell us a bit about yourself and your research. Make sure that the link to your video is working and is accessible to external people or your submission will not be evaluated.

- **How long should the video be?**

The video must be a maximum of 4 minutes long. Longer videos will not be eligible. Shorter video may be evaluated if the quality of the video content is high. We strongly recommend to use all the time you have to explain your work as best as you can. The videos may be shared in Europlanet and EPEC outreach activities aimed at the general public and schools.

- **Is there a file size limit?**

There is no file size limit. However, full HD videos of 3 to 4 minutes are usually around 60–120 MBs, so we suggest that you don't exceed this size range. Remember that compression can reduce the size and quality of the resulting file.

- **Which file formats will be accepted?**

The most common formats are .AVI and .MP4. The videos will be shared via Europlanet social media channels so we recommend that you use a format accepted by the majority of platforms.

Here a useful link: <https://sproutsocial.com/insights/social-media-video-specs-guide/#facebook>

- **Are there any specific requirements for the content?**

The video must be about your own research. If you are using illustrations that you have not created yourself you **MUST** check that you have the necessary permissions and that you give the correct credits for all images, graphs, videos, figures etc.

Since the time is limited, make sure you are focused and plan your time well. For example, you might want to use 30 seconds to introduce yourself, 1 minute to introduce your research, 1 minute for general results, 1 minute for conclusions and the last 30 seconds to say what you are going to do next. However, there is no fixed template, so be creative!

Choose a good title to make your video stand out.

You can use whatever device you have available to record your video – your phone, your laptop, a camera... it's up to you. An easy method is to use a video-conferencing service (like Zoom) with you as the sole participant, but you may find other creative solutions. And unlike a live presentation, you have the chance for multiple “takes” before sending us your video! You can edit, adapt and add as many (or few) effects as you wish.

- **Are there prizes?**

The winner of the video contest will receive a free registration to EPSC 2021 which will be held in Helsinki, Finland. The winning video will be highlighted on the Europlanet website and social media channels.

- **When is the deadline?**

The submission deadline for videos is 31 August 2020. Late submissions will not be accepted.

- **Who is going to judge the videos?**

The judging will be in three steps. In Step 1, the EPEC Communication Working Group members will evaluate the submissions according to the following criteria: scientific content, presentation delivery, structure, layout and visual effects quality. In Step 2, a panel made up of EPEC network members and science communicators will be asked select two finalists. In Step 3, the EPSC 2020 Executive Committee will be asked to select the winner. The winner will be announced at the end of the virtual meeting by EPEC Communication Working Group Co-Chairs.

- **Any other guidance?**

We want to give as much freedom as possible to PhD students to find their own way of sharing their research. Drawing, animations, Lego videos, sharing presentations... Be creative! Any format is welcome, so long as it demonstrates your communication skills.

Submit your video now!

2.3 Submission form

Since the call is now closed, the submission form link is not working. Here, I am reporting the information that were requested in the original submission form for the #PS4all 2020.

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Name:

Surname:

Institution:

PhD title:

Research field:

Video title:

Video link:

Short introduction (about you and your research).

To enter this competition, please confirm:

~ By submitting this form you confirm to be a current PhD student and that all the information given above are correct. By submitting this form you confirm to be aware that entering this contest you are allowing Europlanet and EPEC groups to share the video and your details during the virtual EPSC Conference 2020 that will be held on-line. Submitting this form you agree to share the information given in this form to be evaluated from third parties during the competition. Submitting this form you agree to share in on-line platforms, web-site and social media the content of the video and the content of this form. Submitting this form you confirm that the content of the video include your original work and you specified images or content credits when necessary.

2.4 Flyer

The PDF flyer to advertise the #PS4all 2020 contest is available at:

https://www.europlanet-society.org/wp-content/uploads/2020/07/PS4all_video_contest_flyer-2.pdf

The template is still available and can be modified for next year #PS4all contest 2021.



Figure 1: Flyer to advertise the #PlanetaryScience4all contest. The 2 red squares on the right picture indicate the sections that should change each year.

2.5 Judging form and scoring process

In this Section, I am reporting the Judging process including: the selection of the judging Committee and the Judging form created in a Google form (a copy of this year Google form is Included in the “Report_PlanetaryScience4all_2020_internal_use_only”). The judging process is summarised in Table 1.

Judging Process		
<p>The evaluation Committee included:</p> <ul style="list-style-type: none"> 1 Professor and Member of Europlanet 2 Planetary Science researchers both experts in outreach activities 1 Social media expert 	<p>Videos were evaluated according to the following criteria:</p> <ul style="list-style-type: none"> Scientific content, Structure Presentation delivery Layout, and Visual quality 	<p>The scores were given based on a scale from 0 to 5.</p> <p>The video with the highest score has been considered the winner of the competition</p>

Table 1: Summary of the judging process to select the winner of the #PlanetaryScience4all video contest. This table was shown in the CE13 Session at EPSC 2020.

2.5a Evaluation Committee 2020

The Judging process included the search of four judges within both the Europlanet and EPEC community. The selection was done to avoid any conflict of interest, selecting people with different nationalities (when possible), different expertise and different roles within the Space sector. Their names will kept anonymous to the general public but their expertise are reported here for completeness (more info are reported in ““Report_PlanetaryScience4all_2020_internal_use_only”).

The 2020 Committee members are:

- 2 Planetary Science researchers and experts of Outreach for EPSC.
- Europlanet Society High relevance Member and Professor.
- Europlanet social media representing.

2.5b #PlanetaryScience4all evaluation form

The evaluation form was created using the free available templates of the Google packages (Google form). This form was shared with the Committee using a sharable link. The Committee could not see the scores assigned by the other judges. The judges did not have to insert any information about the student but each section was already prepared allowing them to be focused only in the evaluation. The form was created with the request of response in each row. So, Judges could not have proceed in the evaluation if they did not assign a score to each section. Their answers and the scores were automatically saved allowing me to quickly calculate the results and identify the winner

thought an automatic working sheet (reported in
“Report_PlanetaryScience4all_2020_internal_use_only”).

The created form allowed me to share with the students an anonymous feedback to help them improving their Communication skills.

(example in “Report_PlanetaryScience4all_2020_internal_use_only”).

Here, I am reporting a form example to allow the reader to understand the structure.

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#PlanetaryScience4all evaluation form

Section 1: Guidelines

Total number of videos: X

Please take time to review all the four videos and evaluate each of them following the instructions.

The form was structured to evaluate the submissions according to the following criteria: scientific content, presentation delivery, structure, layout, and visual effects quality.

The scores are given based on a scale from 0 to 5.

The video with the highest score will be considered the winner of the competition.

IMPORTANT NOTE: Google will not allow you to save your answers. If you close the form or the computer without submitting, the scores will be lost.

If you are related with the student (as supervisor, same university or institution etc..) please let us know at the email epcc.communication@gmail.com or to melissa.mirino@open.ac.uk

Judge's name (it will NOT be shared with the student)

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Section 2: Student information and video

Student Name and Surname

PhD title

Research Field

Video Title

Video (Uploaded from YouTube so judges can already see the video in the form with no need of extra documents).

Section 3: General effort and first impression

	Poor-1	Fair-2	Satisfactory-3	Very good-4	Excellent-5
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Overall Impression					
The video stimulated interest					
Communication skills					
Title choice					

Section 4: Video Content

	Poor-1	Fair-2	Satisfactory-3	Very good-4	Excellent-5
Scientific content					
Introduction (Learning objectives were clear)					
Results/Interpretation					
Conclusions					
Organization and Logic					
Significance of the research					

Section 5: Video Quality

	Poor-1	Fair-2	Satisfactory-3	Very good-4	Excellent-5
Presentation delivery and attitude					
Layout/Visual effects					
Effective use of time					
Diction (Enunciation,					

Volume)					
Clarity of the explanation					
General style/Presence					
Originality					

Section 6: Comments for the student

How could the student improve this video? (This anonymous feedback WILL be shared with student presenters following the conference. Please keep all comments respectful, constructive, and considerate.)

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2.6 Award template

An award template has been created for the winner of the competition. This should allow the winning student to request to Copernicus or the EPSC organization team the EPSC 2021 free registration.

The template (Fig 2.) is available and can be modified for next year, changing both year and winner's name.

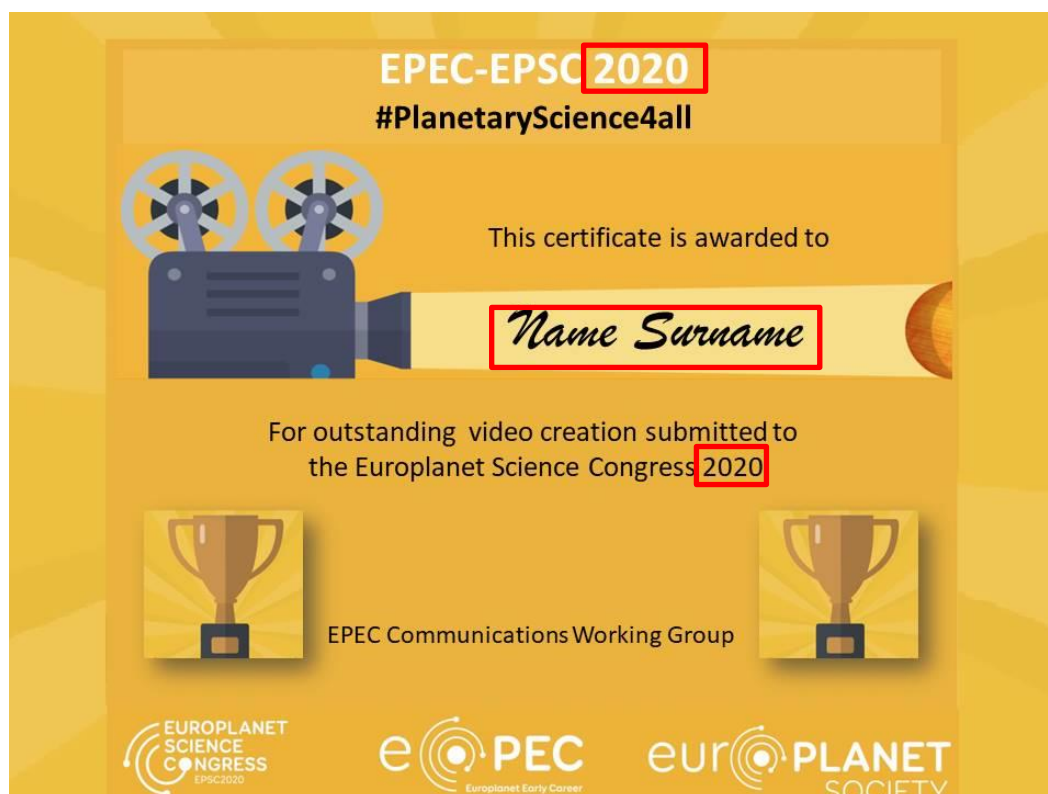


Figure 2: Template for the #PlanetaryScience4all award. The red squares indicate the 3 sections of the template which should be changed each year.

2.7 Feedback forms

Two feedback forms were produced for both judges committee and contest participants to have comments about the general impression about the #PS4all video contest and to identify possible improvements.

Both feedbacks are provided in the “Report_PlanetaryScience4all_2020_internal_use_only”.

Since they were used to identify improvements for next year contest.

Students ‘feedback is reported also in this report in Section 3.3.

3. 2020 contest overview

The 1st edition of the #PlanetaryScience4all video contest received four videos.

The videos (4 min each) have been submitted from four different Universities located in four different Countries (Italy, Germany, France, United Kingdom).

The videos were related to Astrobiology, Planetary mapping and Planetary geomorphology. In this section I am providing the information about the participants that were shared on social media. The published information were written based on the information that students reported in the submission form.

3.1 Participants

Here, name, video title and general information which were reported in social media about 2020#PS4all participants are provided.

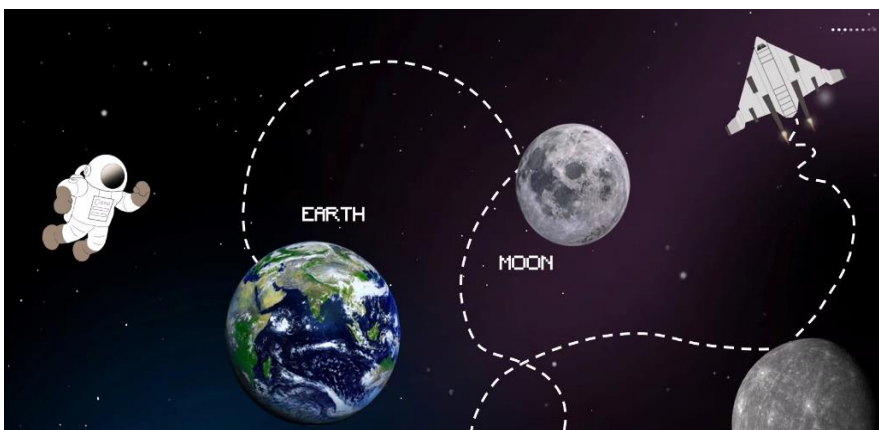
All videos can be found on the Europlanet website (<https://www.europlanet-society.org/epec-epsc-video-contest-announcing-the-shortlist/>) as well as on Europlanet YouTube channel (https://www.youtube.com/results?search_query=%23PlanetaryScience4All).

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Gloria Tognon

Exploring4Future

Youtube link: <https://www.youtube.com/watch?v=MLMnO0VH9jE>



Gloria Tognon is a PhD student at the Center of Studies and Activities for Space "G. Colombo" (CISAS) of Padova. Her PhD title is: Planetary mapping at different scales: insights on atmosphere-less terrestrial bodies. Her research interests focus on Planetary Geology.

About Gloria Tognon: "I'm a geologist in love with planetary sciences. I'm a PhD student in Space sciences, technologies and measurements at the Center of Studies and Activities for Space "G. Colombo" (CISAS) of Padova. My PhD project concerns the Planetary mapping at different scales of atmosphere-less terrestrial bodies, in particular of Mercury and the Moon, under the supervision of Professors Matteo Massironi and Giampiero Naletto. For the Moon I'm performing a small-scale mapping aimed at characterizing Tsiolkovski crater as a possible landing site for a future lunar mission, while for Mercury I'm performing a large-scale mapping to produce a geological map of Eminescu quadrangle and a chrono-stratigraphic interpretation of the area."

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Grace Richards (winner of the 2020 contest)

VOC analysis Unlocking the secrets of Enceladus' surface

YouTube link: <https://www.youtube.com/watch?v=jzIswfK3Mko#>



Grace Richards is a PhD student at The Open University. The title of her PhD is "The feasibility of in situ VOC analysis on icy moons". Her research focuses on astrobiology.

About Grace Richards: "I'm a first-year PhD student at The Open University and I research icy moons, space weathering processes and instrumentation. The main aim of my PhD is to develop instrumentation to analyse volatile organic compounds on the surface of Enceladus. Analysing icy moon surfaces can give us a better understanding of whether or not they could be habitable environments. In order to develop equipment best-suited to Enceladus' surface, I am researching surface processes such as plume deposition, E-ring deposition and interaction with Saturn's magnetosphere".

Doro Bishop

Sticky or not sticky? Measuring the tensile strength of organic material

YouTube link (<https://www.youtube.com/watch?v=NYGmPhDIsvs>)



Doro Bischoff is a PhD student at the Technische Universität Braunschweig, Institute for Geophysics and extra-terrestrial Physics in Germany. The title of her PhD is Constraining planetesimal-formation models by comet observations. Her research focuses on small bodies and planet formation.

About Doro Bischoff: "I am 24 years old and currently working on my PhD at the Technische Universität Braunschweig at the Institute for Geophysics and extra-terrestrial Physics in Germany. My research is focusing on comets and planetesimal formation. In our working group, we are interested in understanding the early stages of the formation of the solar system and how we can have new insight from comets. Earlier, I performed experiments to simulate cometary activity with interesting results. In this video I present my work on the measurement of the tensile strength of micro-granular, organic material, which could be used as analogue materials for comet simulation experiments. For my PhD I will also have a look at comets on a more general view and their hints for the formation of early planetesimals".

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Anthony Guimpier

Investigation of the crime in the Nilosyrtis Mensae region of Mars

Youtube link: <https://www.youtube.com/watch?v=KAcZWYibreM>



Anthony Guimpier is a PhD student at the Laboratoire de Planétologie et Géodynamique. The title of his PhD is The geomorphology of gravitational instabilities on Mars using the CaSSIS imager on the ExoMars orbital probe. His research focuses on the geomorphology of the martian surface.

About Anthony: “I am Anthony Guimpier, I'm a third year PhD student at the Laboratoire de Planétologie et Géodynamique in Nantes, France. During my PhD I study the origin of young landslides (less than 20 million years) located in an impact crater in the Nilosyrtris Mensae region of Mars. These landslides are very interesting because on one hand, water maybe involved in their formation. On the other hand, at time of their formation, liquid water is not supposed to be stable on the surface of Mars. So, I want to know how is this possible”.

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3.2 EPSC session where the Video contest was presented

The #PlanetaryScience4all contest was presented in several sessions during the EPSC2020 virtual meeting.

EPEC General Assembly (21st September; 2.00 pm CEST). During the meeting all the EPEC Working groups presented their aims and activities. Here, the video contest was presented as a new activity organised by the EPEC Communications working group. After a general overview, the participants to the 2020 contest were presented.

Daily Briefing session (22nd September, 10.00 am CEST). Here, a general overview about the video contest was given and the first video was showcased.

- Videos were shown in different days during the EPSC 2020, in all the Europlanet social media including Twitter, Facebook, YouTube, EPEC-EPSC Slack, and Europlanet website.

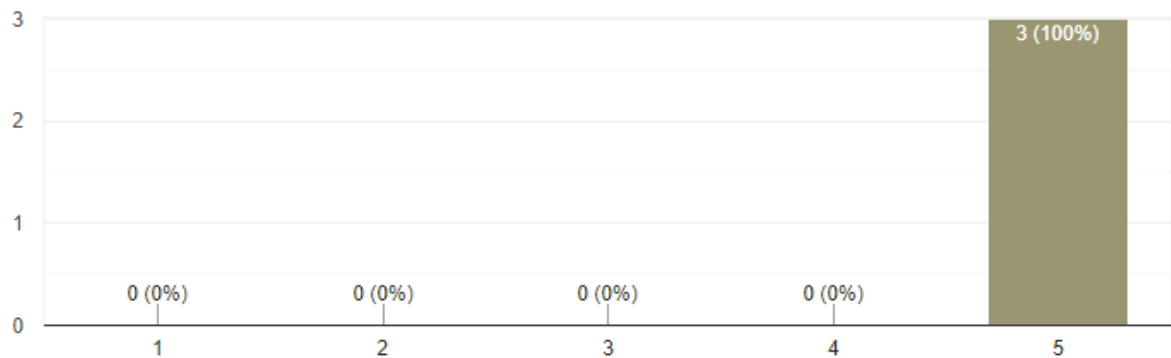
CE13 Outstanding Student Poster Award and EPEC-EPSC video contest announcements (2nd of October, 11.20 am CEST). Here the scoring process was explained and the winner of the competition was announced.

3.3 Students Feedback

The feedback form was submitted by 3/4 participants.

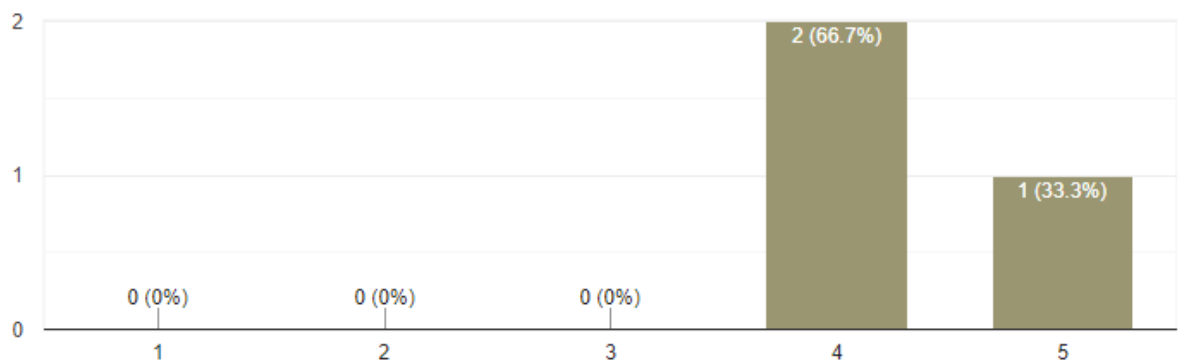
How satisfied were you with the contest?

3 responses

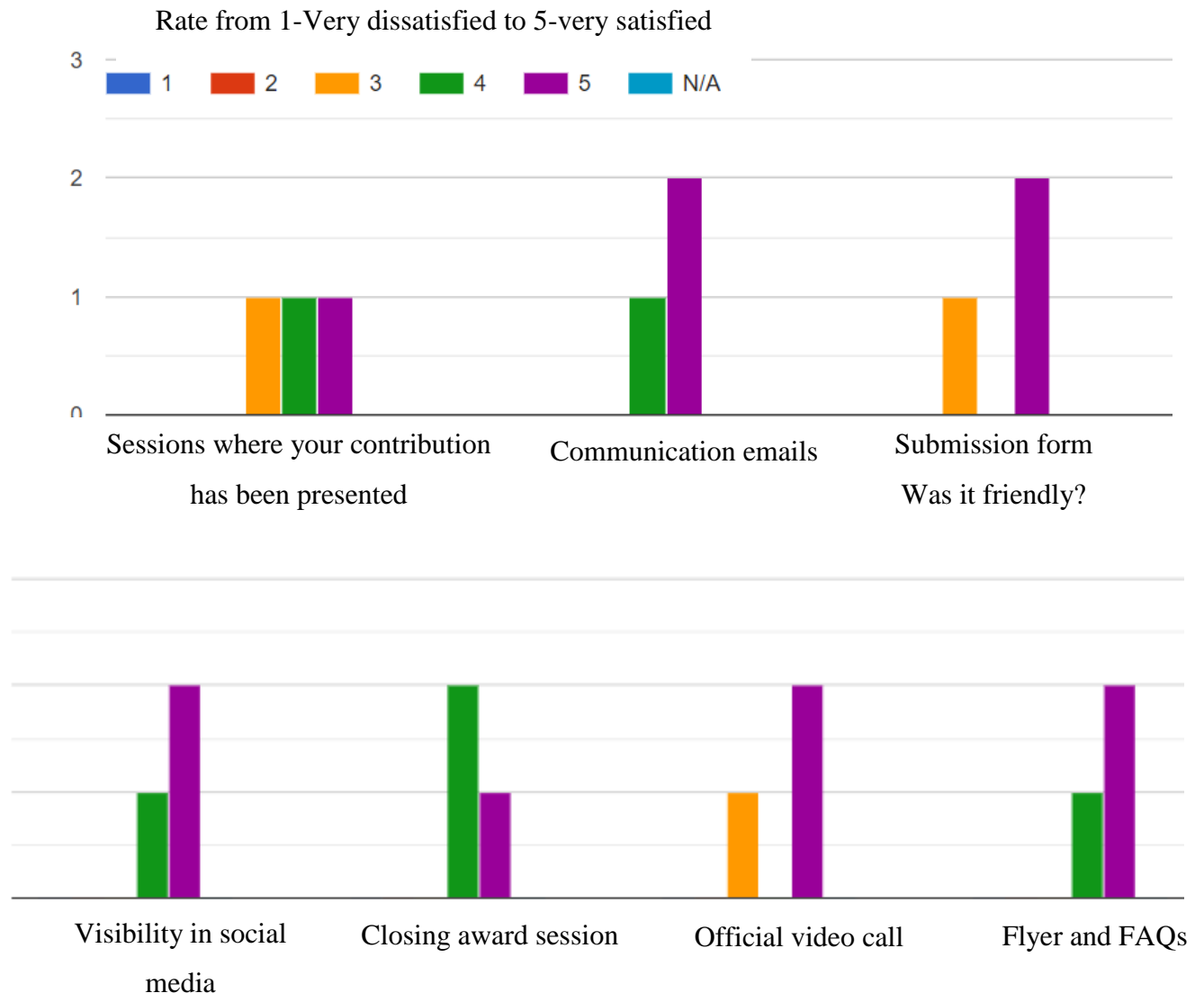


How relevant and helpful do you think it was for increase your work visibility?

3 responses



How satisfied were you with the logistics?



What were your key take away from this event? 3 responses

- To share the enthusiasm and passion I have for my research topic and the possibility to let others know what I'm doing and receiving suggestions, possibly
- Very easy to take part and clear information given
- I had very positive personal feedback to my video, so my work was more appreciated than I expected. I also thought that there would be more participants. So actually I would take part of the contest again, because it increases visibility of my work and early careers in general and I would support the idea of the contest. Due to the small number of participants, winning was not too unlikely.

What should be improved for next year #PS4all contest? 3 responses

This information is shared and reported in the “Report_PlanetaryScience4all_2020_internal_use_only” as many internal and private information were shared in the student comments. This part of the feedback was really useful to identify suggestions and improvements for next year #PS4all.

Any overall feedback for the event? 3 responses

- You had a good idea! It was funny to work on this project and the others contestants gave me some ideas for next year! Thank you
- Really enjoyed taking part and seeing everyone else research!
- My overall feedback: thanks a lot for this opportunity! I really love the idea of the video contest. And I also really appreciate, that we will get personal feedback of the jury for our contributions!

4. Acknowledgements

I am really grateful to Anita Heward and Helen Usher who supported this initiative, commented and helped to improve the entire #PlanetaryScience4all content from the very beginning. I also would like to thanks Indhu Varatharajan and the EPEC-EPSC 2020 WG team for their suggestions and comments about the #PS4all during the EPSC 2020.