



# The Sound of Space

EP. 11 - LIFE IN SPACE: WHAT WILL HAPPEN WHEN HUMANITY LEAVES THE EARTH?

Brought to you by the University of Toronto Aerospace Team (UTAT)

## 01:20 Current Space Endeavors

- [1] "Artemis," NASA. [Online]. Available: <https://www.nasa.gov/specials/artemis/>.
- [2] "Starshot", *breakthroughinitiatives.org*, [Online]. Available: <https://breakthroughinitiatives.org/initiative/3>
- [3] "The Four Program Message", *interstellarbeacon.org*. [Online]. Available: <https://www.interstellarbeacon.org/about>
- [4] E. Mack, "Elon Musk Has New Estimate for When Humans Might First Step on Mars", cnet.com, Mar. 17, 2022. [Online] Available: <https://www.cnet.com/science/space/elon-musk-has-new-estimate-for-when-humans-might-first-step-on-mars/>

## 06:05 Philosophical Questions

- [5] C. McKay, M. Marinova, "The Physics, Biology, and Environmental Ethics of Making Mars Habitable", *Astrobiology*, vol. 1, Mar. 1, 2001. [Online]. Available: [https://www.researchgate.net/publication/11020305\\_The\\_Physics\\_Biology\\_and\\_Environmental\\_Ethics\\_of\\_Making\\_Mars\\_Habitable/link/00b4951eabca15c230000000/download](https://www.researchgate.net/publication/11020305_The_Physics_Biology_and_Environmental_Ethics_of_Making_Mars_Habitable/link/00b4951eabca15c230000000/download)
- [6] "Starlink Terms of Service", starlink.com, para. 13. [Online]. Available: <https://www.starlink.com/legal/documents/DOC-1022-91014-56?regionCode=CA>
- [7] National Aeronautics and Space Administration, "NASA's Recommendations to Space-Faring Entities: How to Protect and Preserve the Historic and Scientific Value of U.S. Government Lunar Artifacts", Rev A, Oct. 28, 2011. [Online]. Available: [https://www.nasa.gov/pdf/617743main\\_NASA-USG\\_LUNAR\\_HISTORIC\\_SITES\\_RevA-508.pdf](https://www.nasa.gov/pdf/617743main_NASA-USG_LUNAR_HISTORIC_SITES_RevA-508.pdf)

## 13:49 Space Policy

- [8] Space Foundation Editorial Team, "International Space Law", *spacefoundation.org*. [Online]. Available: [https://www.spacefoundation.org/space\\_brief/international-space-law/](https://www.spacefoundation.org/space_brief/international-space-law/)
- [9] United Nations Office for Outer Space Affairs, "Agreement on the Rescue of Astronauts, the Return of Astronauts and the Return of Objects Launched into Outer Space", *United Nations*. [Online]. Available: <https://www.unoosa.org/oosa/en/ourwork/spacelaw/treaties/introrescueagreement.html>

**20:00 Socioeconomic Challenges**

- [10] P. Krugman, "The Theory of Interstellar Trade", Yale University, July 1978. [Onlinel]. Available: <https://www.princeton.edu/~pkrugman/interstellar.pdf>

**24:35 Comparison to Globalization**

- [11] J. Vedda, "The Role of Space Development in Globalization", Societal Impact of Spaceflight, 2007 [Online]. Available: [https://www.researchgate.net/publication/280158123\\_The\\_Role\\_of\\_Space\\_Development\\_in\\_Globalization](https://www.researchgate.net/publication/280158123_The_Role_of_Space_Development_in_Globalization)
- M. Dudley-Flores, T. Gangale, "The Globalization of Space - The Astrosociological Approach", vol 1, 2007, [Online]. Available: [https://www.researchgate.net/publication/269160949\\_Globalization\\_of\\_Space\\_-\\_The\\_Astrosociological\\_Approach](https://www.researchgate.net/publication/269160949_Globalization_of_Space_-_The_Astrosociological_Approach)

**29:14 Comparison to Remote Communities on Earth**

- [13] M. Humphries, "What life is like in the research stations in Antarctica, which is so remote it's only now experiencing the pandemic", insider.com, 2020 [Online]. Available: <https://www.insider.com/daily-life-in-antarctic-research-stations-2018-11>
- [14] A. Jing, N. S. Hughes, K. Rajkovic, H. Kaur, R. Uraiqat, D. A. Adamiak, A. Jain, H. Lin, S. Najeeb, and A. Mustafa, "Extrapolation of conflict mitigation strategies from teams in isolated communities on Earth to long duration space exploration missions," AIAA SCITECH 2022 Forum, 2022, [Online]. Available: <https://arc.aiaa.org/doi/abs/10.2514/6.2022-0399>

**32:52 Psychology**

- [15] K. Szocik, The Human Factor in a Mission to Mars: An Interdisciplinary Approach, Space and Society, Springer Cham, 1st edition, 2019 [Online]. Available: <https://link.springer.com.myaccess.library.utoronto.ca/content/pdf/10.1007/978-3-030-02059-0.pdf>

**38:20 Preservation of Culture/Tradition**

- [16] P. Harris, "The Influence of Culture on Space Developments", National Space Society, [Online]. Available: <https://space.nss.org/settlement/nasa/spaceresvol4/influence.html>