



KiboCUBE

Space Debris Mitigation Guidelines



UNITED NATIONS
Office for Outer Space Affairs



Check out the

Space Debris Mitigation Guidelines

https://www.unoosa.org/pdf/publications/st_space_49E.pdf

Tips on the Implementation of the Space Debris Mitigation Guidelines and Guidelines for the Long-Term Sustainability of Outer Space Activities Webinar

https://www.unoosa.org/oosa/en/ourwork/access2space4all/Common_Webinars.html#Tag7

UNITED NATIONS
OFFICE FOR OUTER SPACE AFFAIRS

Space Debris Mitigation Guidelines of the Committee
on the Peaceful Uses of Outer Space



UNITED NATIONS



KiboCUBE

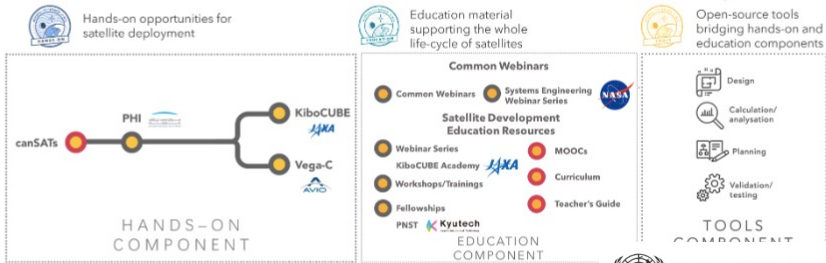
Space Debris Mitigation Guidelines



Satellite Development Track

SATELLITE DEVELOPMENT

- Building capacity that enables the development, deployment, and operation of satellites



The Satellite Development Track is aiming at building the capacity to design, implement, verify, operate and maintain satellites in a responsible and sustainable manner.

Hands-on Component

Education Component

Tool

- [KiboCUBE](#)
- [Vega-C](#)
- [NASA System Engineering Webinars](#)
- [PNST Fellowship Programme](#)
- [KiboCUBE Academy](#)
- [Common Webinars](#)

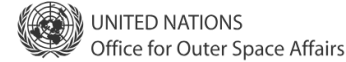
United Nations/Japan Cooperation Programme on CubeSat Deployment from the International Space Station (ISS) Japanese Experiment Module "KiboCUBE"

KiboCUBE in partnership with Japan Aerospace Exploration Agency provides the opportunity to develop a cube satellite (CubeSat) and have it deployed from the International Space Station Japanese experiment module "Kibo".

KiboCUBE enables access to space promoting the sustainability of future space activities.

News

- KiboCUBE is open for applications. For more details on webinars and documents, watch from the [JAXA YouTube](#)
- 3rd round awardee Surya University's SS-1 was deployed from the ISS. [Watch the launch here](#)
- More live-sessions and pre-recorded lectures for KiboCUBE have been uploaded! Check them out [here](#)
- Interview with Mauritius Research and Innovation Agency (MRIA) has been published. Read from [here](#)
- Check out our new brochure: "KiboCUBE: Exploring Possibilities for Space Emerging Countries"



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- [Events](#)
- [Space Object Register](#)
- [Documents](#)
- [COPUOS 2023](#)

Our Work > Access to Space for All > Opportunities > Satellite Development Track

KiboCUBE Rounds

8th Round: from 2 June to 31 December 2023

Press Release: [New KiboCUBE opportunity announced by UNOOSA and JAXA](#) (2 June 2023)

WEBINARS

- 2 June 2023: COPUOS hybrid side event
- 22 June 2023: Detailed Webinar for 8th Round Application
- 21 July 2023: KiboCUBE Academy Webinar on CubeSat Technologies and CubeSat Launch and Operations Register
- <NEW> 11 September 1pm CEST 2023: KiboCUBE Regulatory Webinar:** register from [here](#)
- 1 October 2023: Onsite KiboCUBE Academy at Baku, Azerbaijan for UN/IAF Workshop participants
- mid-late October 2023: KiboCUBE Academy Webinar <Details coming soon>

See presentations/recordings from [KiboCUBE webinars](#) and [KiboCUBE Academy webinars](#)

For Frequently Asked Questions (FAQs) from the webinars for the 8th Round, please see [here](#).

8TH ROUND DOCUMENTS

- [Announcement of Opportunity \(.pdf\)](#) *Updated JPAH version from Vol. 8 Revision D to E on 19 June 2023
- [CubeSat Mission Application template \(.word\)](#) *Updated JPAH version from Vol. 8 Revision D to E on 19 June 2023
- [JEM Payload Accommodation Handbook \(JPAH\) \(.pdf\)](#) *Updated JPAH version from Vol. 8 Revision D to E on 19 June 2023
- <NEW> Expression of Interest (.pdf) / Form template (.word) Deadline: 18 October 2023** *Uploaded 23 August 2023

REFERENCE MATERIALS

- [KiboCUBE Academy webinars](#)
- [KiboCUBE webinars](#)
- [Video: "Deployment from Kibo" \(provided by MEXT/JAXA\)](#)
- [United Nations Register of Objects Launched into Outer Space](#)
- [International Telecommunication Union \(ITU\) Small Satellites Support page](#)
- [ITU Small Satellite Handbook page](#)
- [Tips on the Implementation of the Space Debris Mitigation Guidelines and Guidelines for the Long-Term Sustainability of Outer Space Activities](#)
- [Space Debris Mitigation Guidelines](#)
- [Guidelines for the Long-Term Sustainability of Outer Space Activities](#)

TIPS ON THE IMPLEMENTATION OF THE SPACE DEBRIS MITIGATION GUIDELINES AND GUIDELINES FOR THE LONG-TERM SUSTAINABILITY OF OUTER SPACE ACTIVITIES WEBINAR

10 December 2021 See video from [here](#)

- [Introduction to the Space Debris Mitigation Guidelines \(pdf and video 3:11-14:39\)](#)
- [Introduction to the Guidelines for the Long-Term Sustainability of Outer Space Activities \(pdf and video 15:31-32:20\)](#)
- [Tips on how to fill in an Access to Space for All Application Form \(video 33:13-52:38\)](#)
- [Q and A \(video 52:52-\)](#)

Our Work

- Secretariat of COPUOS
- Programme on Space Applications
- UN-SPIDER
- International Committee on GNSS
- UN-Space
- Space Law
- Benefits of Space
- Access to Space for All For Member States
- Partnerships Opportunities
- Hypergravity/Microgravity Track
- Satellite Development Track
- Space Exploration Track
- Awardees
- Acknowledgement
- Space Law for New Space Actors
- Space for Persons with Disabilities
- Space4Youth
- Space4Water
- Space4Women
- World Space Forum
- Worldwide Space Agencies



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Guideline	Information Needed
1: Limit debris related during normal operations	Explain how the CubeSat will not release debris into space during normal mission operations (ex. How it is designed to minimize any risks)
2. Minimize the potential for break-ups during operational phases	Explain how it is not applicable to the CubeSat mission or if applicable, how it is designed to avoid failure modes which may lead to accidental break-ups.
3: Limit the probability of accidental collision in orbit	Provide information that probability collision has been assessed.
4: Avoid intentional destruction and other harmful activities	Explain that this is not intended.
5: Minimize the potential for post-mission break-ups resulting from stored energy	Explain how it is not applicable or if applicable, how the stored energy will be depleted or made safe for post-mission disposal.
6: Limit the long-term presence of spacecraft and launch vehicle orbital stages in the LEO region after the end of their mission	Provide information that the expected mission lifetime and orbital decay simulation was considered.
7: Limit the long-term interference of spacecraft and launch vehicle orbital stages with GEO region after the end of their mission	Not applicable - Explain that the CubeSat will not be deployed into the GEO orbit.