

World Space Week 2021

UNOOSA Access to Space
for All Initiative
“Women in Space”

Mika Ochiai
JAXA

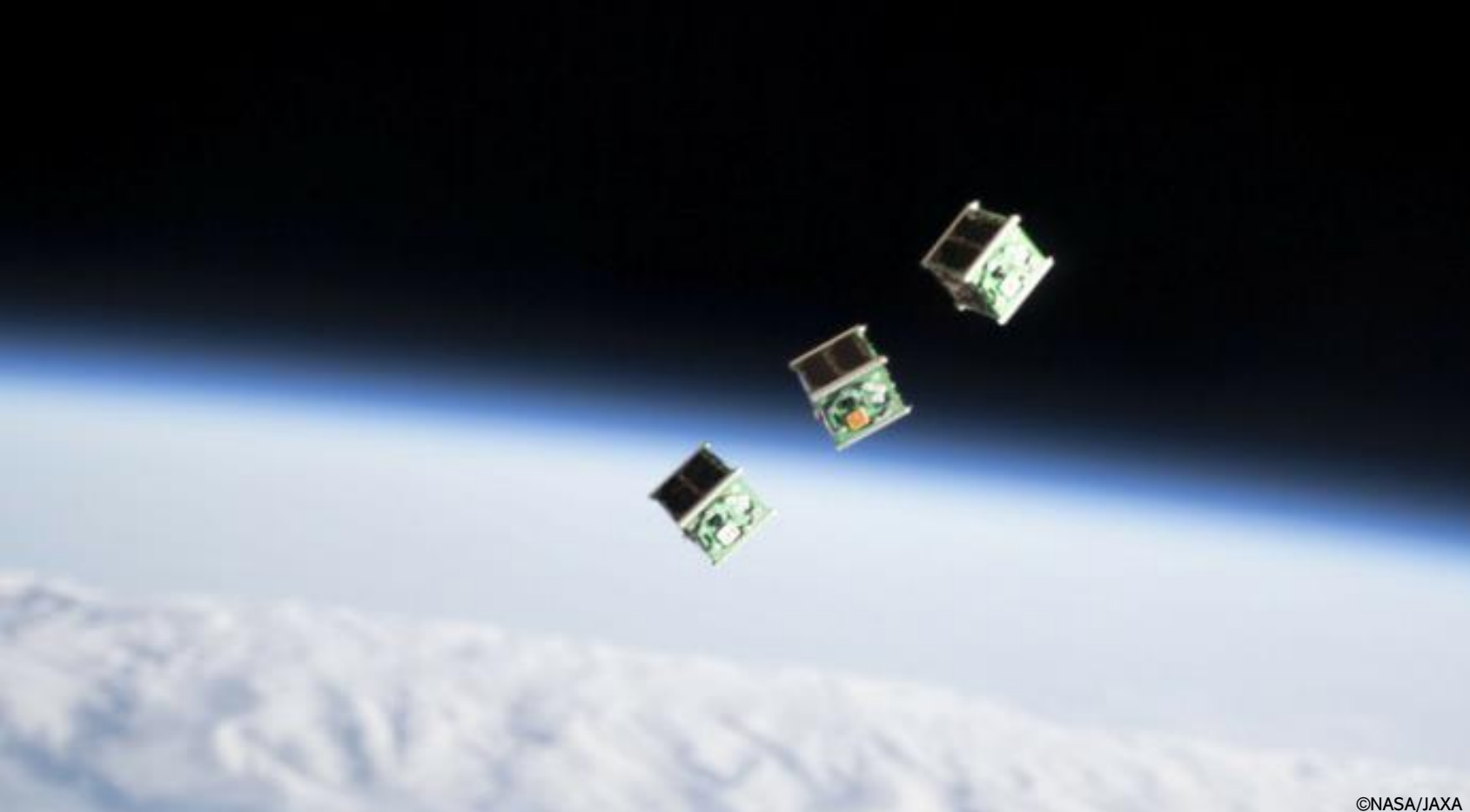




JAXA

April 11, 2014
Vienna
International Center





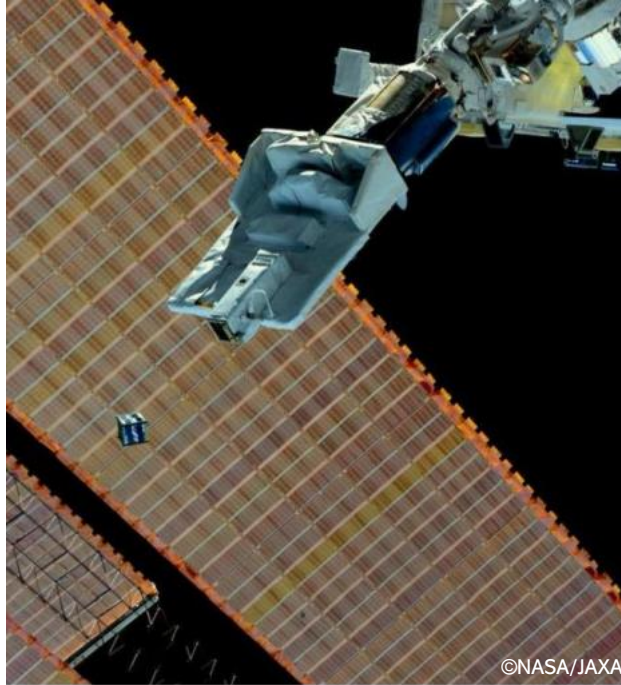
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Cooperation Program between UNOOSA and JAXA

Offering opportunities to deploy CubeSats from ISS
Japanese Experiment Module "Kibo"



©NASA/JAXA

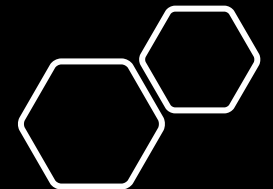


“Kibo” is ...

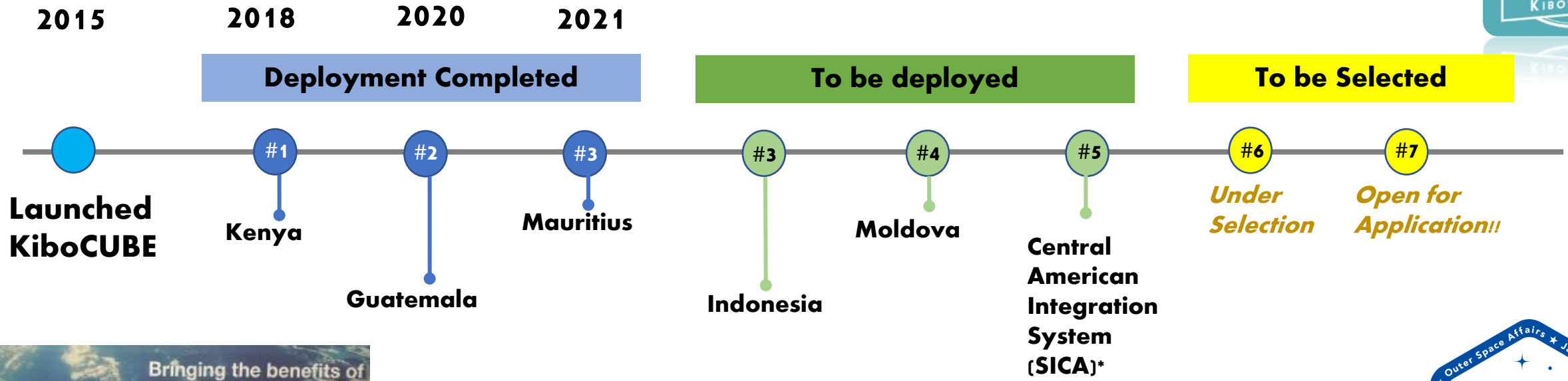
The only module to deploy CubeSats from the ISS.

Kibo's unique capability - comprised of an airlock system and a robotic arm.

Since the first orbital deployment of CubeSats from Kibo in 2012, nanosatellites and CubeSats from various countries around the world have been deployed from Kibo.



KiboCUBE History







*SICA Member States: Belize, Costa Rica, Dominican Republic, El Salvador, Guatemala, Honduras, Nicaragua, Panama.
 (Nations) : members participating in KiboCUBE

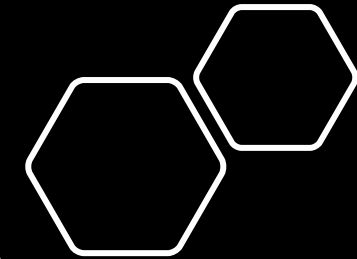


From CubeSat handover to deployment

1st CubeSats deployment from ISS

Deployment
1st KiboCUBE CubeSat
1KUNS-PF (Kenya) from ISS

Round & Winner		Objective
1 st 	KENYA : "1KUNS-PF" University of Nairobi	To monitor agriculture and coastal areas Deployed : 11.05.2018
2 nd 	GUATEMALA : "Quetzal-1" Universidad de Valle De Guatemala	To acquire remote sensing data for natural resource management Deployed : 29.4.2020
3 rd 	MAURITIUS : "MIR-SAT 1" Mauritius Research and Innovation Council	To collect images and to test onboard communication Deployed : 22.6.2021
3 rd 	INDONESIA : "SS-1" Surya University	To demonstrate remote communication Under development
4 th 	MOLDOVA : "TUMnanoSAT" Technical University of Moldova	To demonstrate technology and test various components Under development
5 th 	SISTEMA DE LA INTEGRACIÓN CENTROAMERICANA : "MORAZAN-SAT"	To monitor weather variables in remote areas providing early warning during extreme weather events Under development



KiboCUBE Academy Webinar-based Education Program

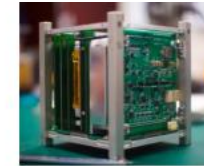
- A series of online video lectures
- Interactive lectures (share experiences and knowledge)

◆ KiboCUBE Academy Season1 ➤ Go to “webinar” section

<https://www.unoosa.org/oosa/en/ourwork/psa/hsti/kibocube/2020.html>

- Technical consultation (provide consultation services to KiboCUBE applicants)

◆ KiboCUBE Academy Season 2 ➤ *Coming Soon! (Nov.2021- tbd)*



1U CubeSat Model



Hands-on Training of Satellite Engineering



CubeSat Operation

Anyone can access these online lectures anytime!



<https://www.unoosa.org/oosa/en/ourwork/access2space4all/KiboCUBE>