

Asian Try Zero-G 2023 Online Guide

ATZ-G 2023 Secretariat

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The event schedule of ATZ-G 2023 (tentative)

Time(JST)	Duration	Contents						
16:30	30 min	Please access and wait in the Zoom waiting room, and final check will be						
		done after all participants come to the Zoom.						
Around	150 min	Astronaut Furukawa will perform ATZ-G experiments/exercises						
16:45		on the ISS.						
Start time is		- Opening remarks by Astronaut Furukawa						
subject of		- Acrylic Stick Experiment (Australia)						
change.		- Two Ball String Experiment (Thailand)						
		- LATO-LATO Experiments (Indonesia)						
		- Magnetic Field Experiment (Bangladesh)						
		- Magnus Glider Experiments (Taiwan, Singapore)						
		- Break (Area Setup)						
		- Water Sphere Experiment (Thailand)						
		- Oloid Experiment (the Philippines)						
		- Capillary Experiments (Japan)						
		- Zero-G Siphon Experiment (Singapore)						
		- Break (Area Setup)						
		- Blowing Exercise (Taiwan)						
		- Rope Exercise (Japan)						
		- Elastic Band Exercise (the Philippines)						
		- Starfish Exercises (Thailand)						
		- Air Chair Exercise (Japan)						
POTARC		- Closing remarks by Astronaut Furukawa						

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Note

- This guide summarizes how to perform Asian Try Zero-G 2023 experiments/exercises by Astronaut Furukawa on February 13th. Look forward with anticipation to seeing what results you will see.
- Please <u>refrain from distributing this material</u> to anyone other than those involved or uploading it to social media.

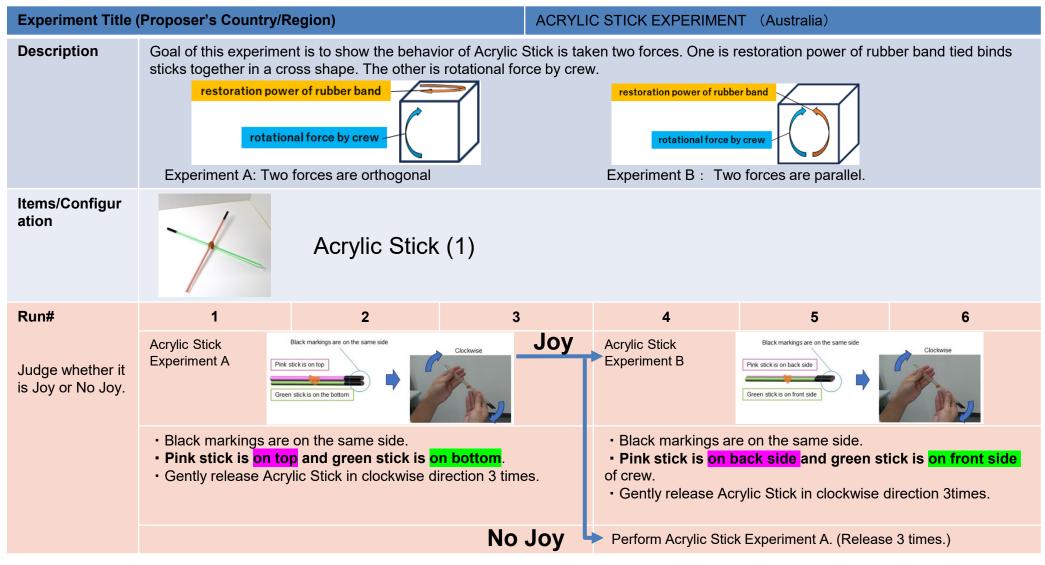
Country/Region	Theme (Experiment)
Australia	Acrylic Stick Experiment
Thailand	Two Ball String Experiment
Indonesia	LATO-LATO Experiments
Bangladesh	Magnetic Field Experiment
Singapore, Taiwan	Magnus Glider Experiments
Thailand	Water Sphere Experiment
Philippines	Oloid Experiment
Japan	Capillary Experiments
Singapore	Zero-G Siphon Experiment

Selected Themes (Experiments/Exercises)

Country/Region	Theme (Exercise)				
Taiwan	Blowing Exercise				
Japan	Rope Exercise				
Philippines	Elastic Band Exercise				
Thailand	Starfish Exercise				
Japan	Air Chair Exercise				



<u>Experiment 1</u>

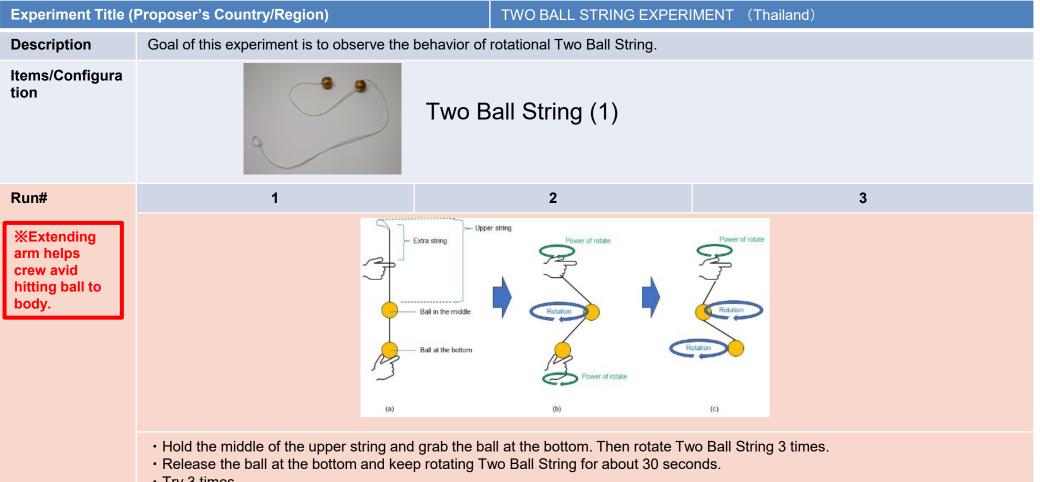








Experiment 2

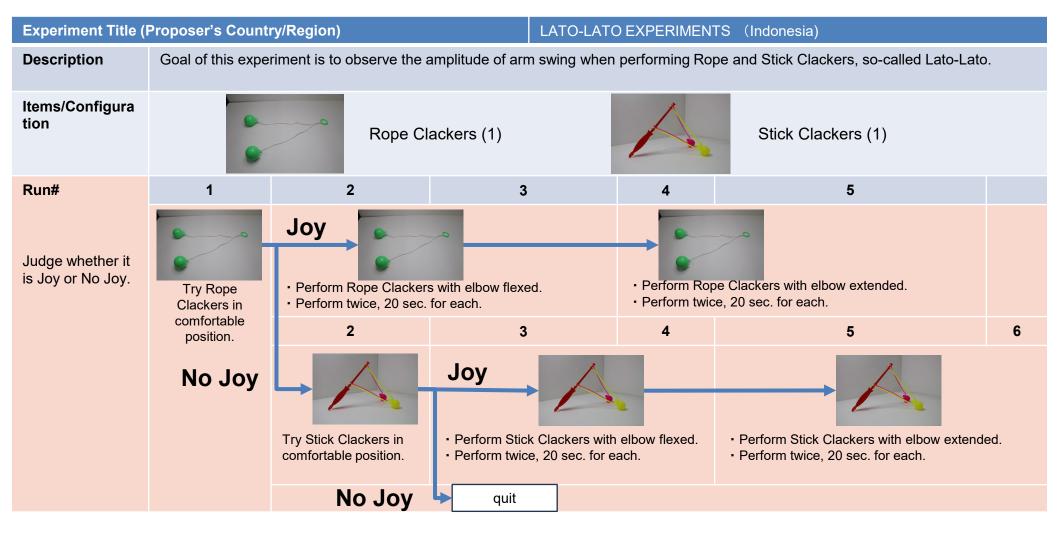


Try 3 times.















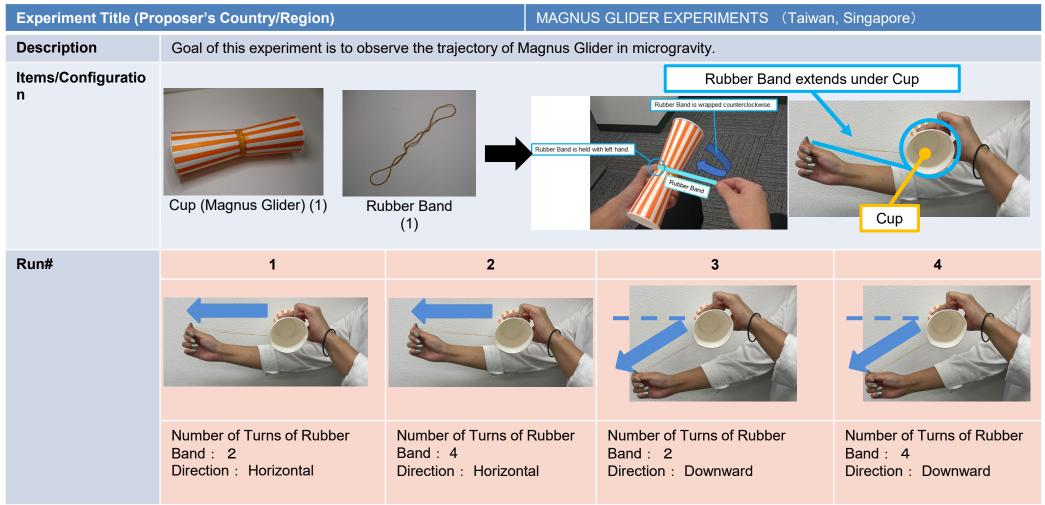
Experiment Title (Proposer's Country/Region)	MAGNETIC FIELD EXPERIMENT	(Bangladesh)
Description	Goal of this experiment is to observe the s	patial magnetic field.	
Items/Configuratio n	Magnetic Field B (1) Magnetic chip	Magnet (1)	
Run#		1	
	Rotate Magnetic Field Box	Insert Magnet to Magnetic Field Box.	Kotate Magnetic Field Box
	360 degrees slowly to show floating magnetic chips.	moort magnet to magnetio r loid box.	360 degrees slowly to show magnetic field lines.







<u>Experiment 5</u>

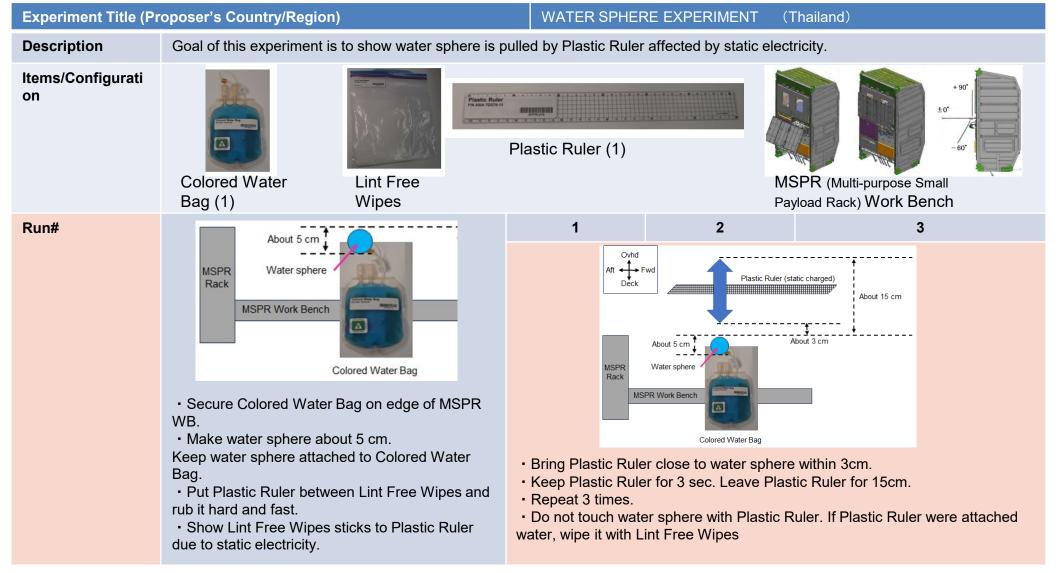








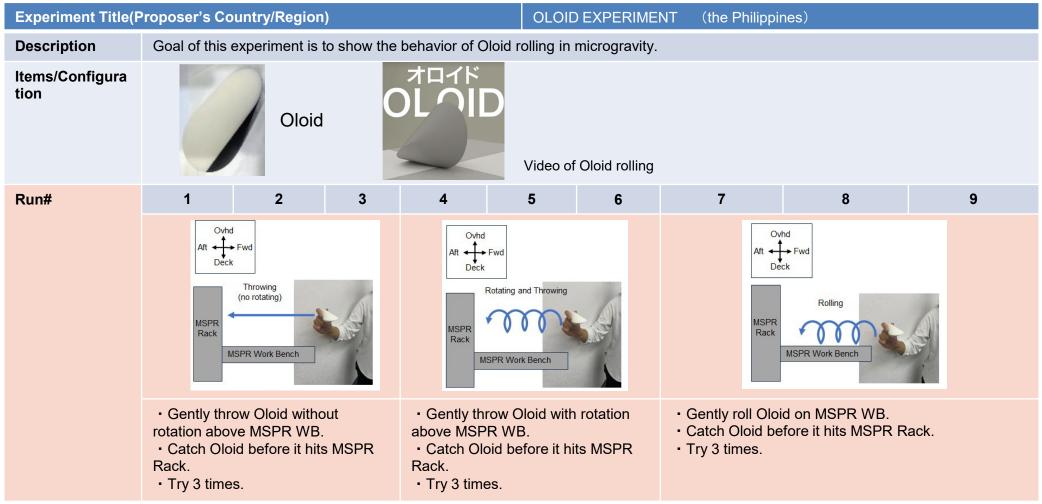
<u>Experiment 6</u>







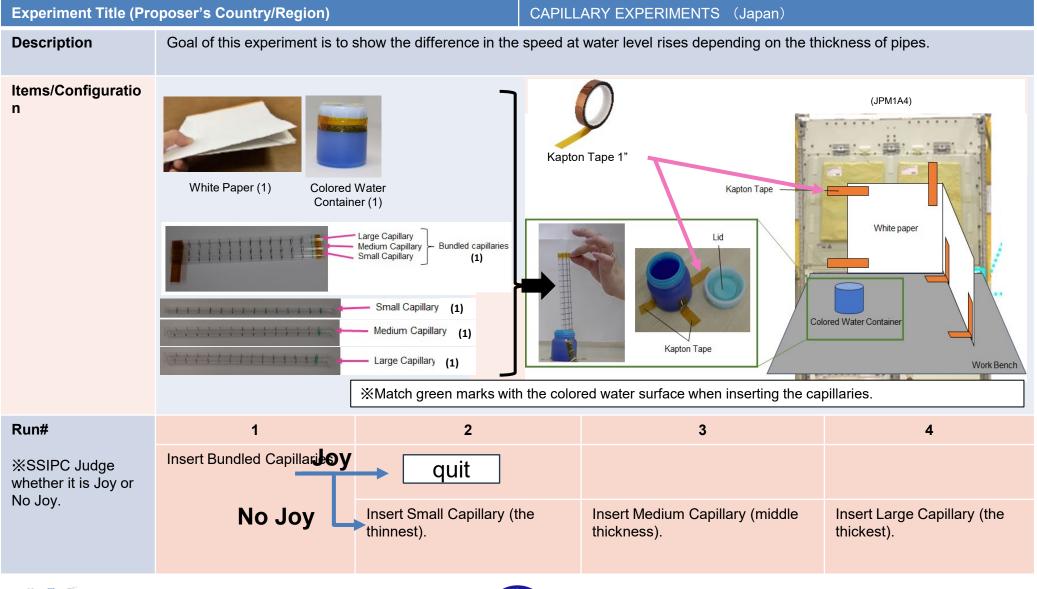










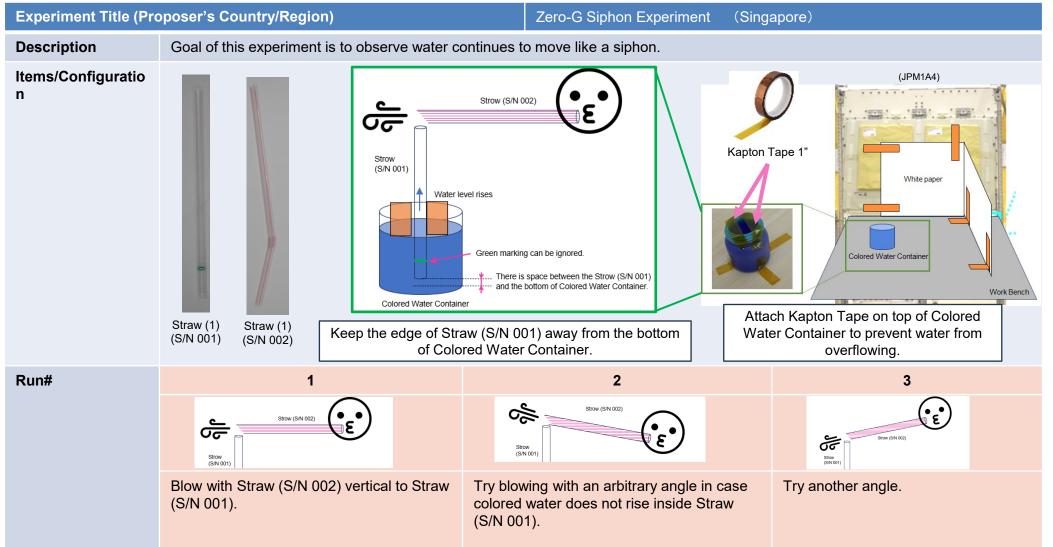








<u>Experiment 9</u>







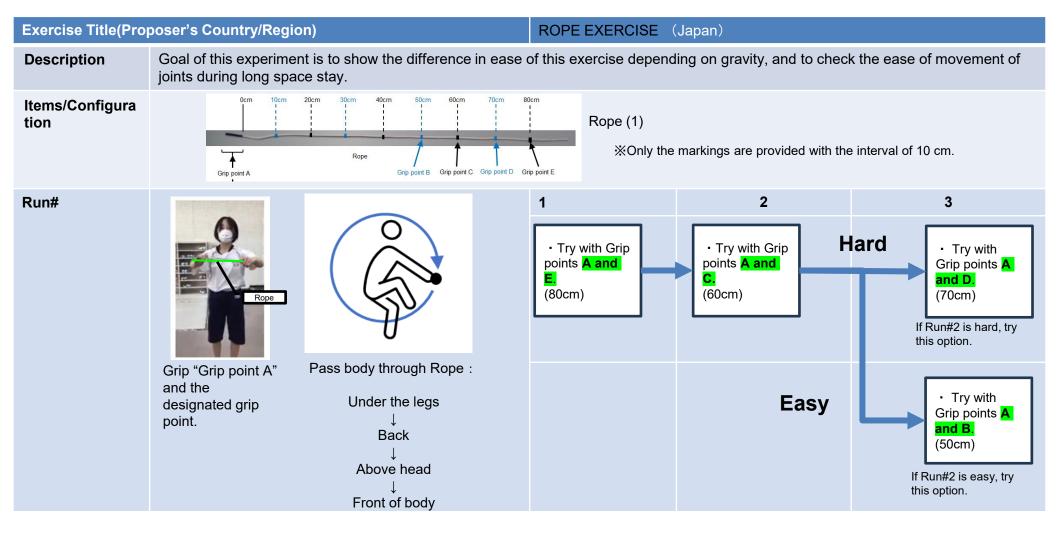


Exercise Title(Pro	poser's Country/Regio	on)	BLOWING E	BLOWING EXERCISE (Taiwan)					
Description	Goal of this experiment is to show the difference in ease of body movement depending on posture and the thickness of pipes.								
Items/Configur ation		3cm Pipe (1)	1cm Pi	n Pipe (1) Straw (S/N 003) (1)					
Run#	1	2	3	4	5				
	3cm Pipe	1cm Pipe	Strow	If SSIPC required, p	erform these runs.				
				A A A					
		in natural posture		in a kneeling position	in a cross-legged position				
	 Hold 3cm Pipe, 1cn Blow for 20 sec. in r 	n Pipe or Straw (S/N 003) ir natural posture.	 Hold the designated pipe or straw in mouth. Blow for 20 sec. in a kneeling position. 	 Hold the designated pipe or straw in mouth. Blow for 20 sec. in a cross-legged position. 					













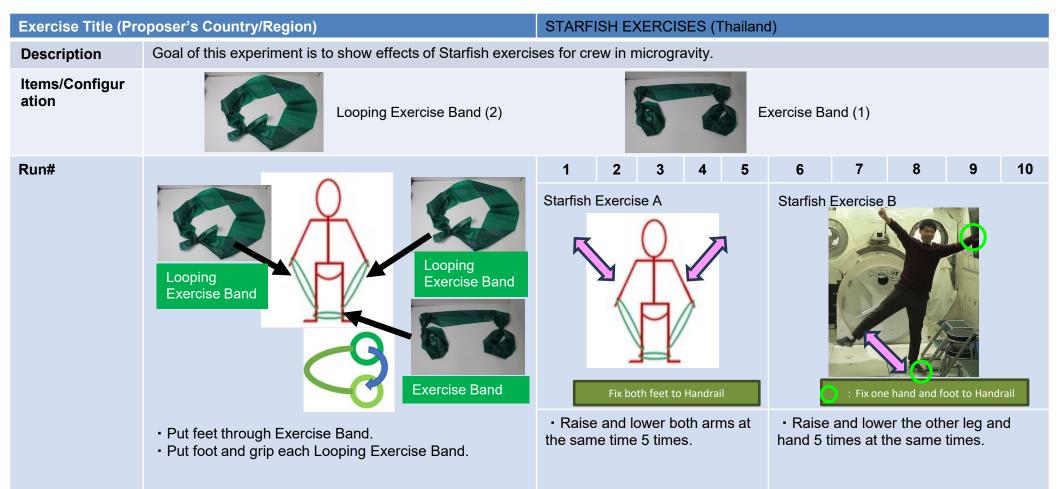


Exercise Title(Proposer's Country/Region)					ELASTIC BAND EXERCISE (the Philippines)				
Description	Goal of this experiment is to show effects of these exercises for crew in microgravity.								
Items/Configura tion	Looping Exercise Band (1)								
Run#	1	2	3	4	5	6	7	8	
	Elastic Band Exe	rcise A			Elastic Band Exercise B				
		Fix both feet to Han	edrail	⇒	Looping Exercise Band Elastic Band Squats Handrail Elastic Description Handrail				
		xercise Band on v e both arms slow			 Fold Looping Exercise Band in double and put it on thighs. Squat with hands in front 4 times. 				















Exercise Title(Proposer's Country/Region) AIR CHAIR EXERCISE (Japan)													
Description	Goal of this experiment is to show effects of Air Chair exercises for crew in microgravity.												
Items/Configur ation	Exercise Band (1)												
Run#	1	2	3	4	5	6	7	8	9	10	11	12	
	Air Cha	ir Exercise	A		Air Chair Ex	Chair Exercise B				If SSIPC required, perform these runs.			
					$\widehat{Front of view}$ $\widehat{Front of view}$ $\widehat{Fide of view}$			Air Chair Exercise C					
				Fix	both feet to Han	drail	Fix on Handrail						
	Bend knees and lower hips. Bend k					Band is on ees and low d lower arm		he same	 Exercise Band is on ankles. Bend knees and lower hips. Open and close legs alternately 4 times. Fix each foot on Handrail alternately. 				





