

22:02:19 開始 T. Fuse (Kyutech) : Please write your affiliation or country in name of ZOOM

22:03:46 開始 MENGU CHO (Kyutech, JAPAN) : Please write your affiliation and/or country in your name.

22:03:58 開始 MENGU CHO (Kyutech, JAPAN) : Your questions by chat are welcome.

22:05:48 開始 GUSTAVO CARPIGNANO : Hello, Gustavo from Argentina.

22:09:55 開始 T. Fuse (Kyutech) : Reacted to "Hello, Gustavo from ..."

22:10:33 開始 MENGU CHO (Kyutech, JAPAN) : Please write your affiliation and/or country in your name.

22:31:14 開始 MENGU CHO (Kyutech, JAPAN) : Do you implement any camera pointing mechanism? Also, how big is the image size? Can you downlink the image with UHF?

22:35:29 開始 Jesus Gonzalez (Nediar, Electrical and Sys. Eng) : How did you select the Len for the camera? GSD = 54 m and FOV = 10 deg was the requirement or it was the constraint due to the selected lens?

22:35:36 開始 T. Fuse (Kyutech) : About initial operation. Are there any updates of initial operation reflecting on Maya5,6 experience?

22:40:10 開始 Adrian C. Salces (PhilSA) : Maya-7's store-and-forward mission payload is based on the heritage of KITSUNE of Kyutech.

22:41:14 開始 MENGU CHO (Kyutech, JAPAN) : What is the strategy to convince IARU to use LoRa onboard an amateur radio satellite?

22:47:55 開始 Adrian C. Salces (PhilSA) : The message is to emphasize the merit of the S&F mission which is to allow the amateur radio community to "try out" non-traditional communication modulation (LoRa in this case). We intend to open and share the packet format and GST design so the amateur enthusiast can develop their GST and communicate with the payload.

22:49:32 開始 MENGU CHO (Kyutech, JAPAN) : Have you already started dialogue with IARU?

22:50:00 開始 John Abiel Villanueva (UPD-PH) : Replying to "About initial operat..."

yes we'll be presenting some of our experiences on operating Maya-5 and Maya-6 in the later slides

22:50:17 開始 Adrian C. Salces (PhilSA) : We will do soon, just clearing with our local telecommunication regulator. So far, no objection from our regulator.

22:50:51 開始 MENGU CHO (Kyutech, JAPAN) : OK. Good luck.

22:52:33 BTW. I am planning to write a proposal to DOST about JCUBE application and hopefully partner with Kyutech. Can I have a separate meeting with you regarding this? On your most convenient time.

hehe

22:59:05 開始 MENGU CHO (Kyutech, JAPAN) : Do you fabricate OBC/EPS domestically? Or buy from Sagami?

23:00:20 開始 Adrian C. Salces (PhilSA) : For the EM, we plan to fabricate domestically our locally designed PCB for OBC/EPS and FAB. If it works, we adopt it for FM

2 Ah nice. This is noted fuse-san

23:05:04 開始 Ariel Nopre, Jr. - UPD-PH : Replying to "Do you implement any..."

Hi Prof. Cho, we will be implementing adcs-cam assist mode for pointing mechanism.

The image size, as we identify, is 1080x320pixels but the sensor can capture a 2592x2060pixels. With the 1080x320pixels image size we can downlink an image each pass given if the pass will last for 10mins.

23:06:37 開始 MENGU CHO (Kyutech, JAPAN) : One antenna encircles the other two antennas? It is the first time as the antenna design.

23:08:47 開始 MENGU CHO (Kyutech, JAPAN) : How many team members will stay in the team in Jan.2025? Are there enough number of team members remaining to do the operation?

23:08:51 開始 Janardhan Silwal [Antarikchya, Nepal] : Replying to "Do you implement any..."

What is the average size in KB of the captured image?

23:10:01 開始 Ariel Nopre, Jr. - UPD-PH : Replying to "How did you select t..."

Hello Sir! I selected the lens of the camera by choosing first the image sensor, after that I computed for the Effective focal length and FOV.

23:13:07 開始 MENGU CHO (Kyutech, JAPAN) : Maya-5 battery capacity is very low? Why does it become 2.2V in one eclipse? When is the next high beta angle?

23:14:31 開始 Ariel Nopre, Jr. - UPD-PH : Replying to "Do you implement any..."

for 1080x320 pixels the size is 813.24kB

23:16:40 開始 Ariel Nopre, Jr. - UPD-PH : Reacted to "Hello, Gustavo from ..." with

23:19:05 開始 Janardhan Silwal [Antarikchya, Nepal] : Replying to "Do you implement any..."

Is the 10 mins duration considering the possible BER, also what is COM data rate that you are using for downlink?

23:19:06 開始 MENGU CHO (Kyutech, JAPAN) : How much power does the auto mission

consume?

23:21:02 開始 Ariel Nopre, Jr. - UPD-PH : Replying to "Do you implement any..."

the data rate for downlink is 4800bps

23:22:24 開始 MENGU CHO (Kyutech, JAPAN) : By the way does the CW beacon indicate regular 24 hour reset happening, meaning that Reset PIC is working?

23:23:17 開始 Adrian C. Salces (PhilSA) : Replying to "How many team member..."

This is currently an issue as the students are expected to graduate by August 2024. Operations are planned to be turned over to PhilSA, but we are looking at the possibility of extending the students' tenure.

23:24:33 開始 Janardhan Silwal [Antarikchya, Nepal] : Replying to "Do you implement any..."

Then, is it really possible to get that image in 10mins pass?

23:26:13 開始 Jesus Gonzalez (Nediar, Electrical and Sys. Eng) : The batteries of Maya 5 and Maya 6 were acquired at the same time, are they part of the same batch and the same screening process?

23:27:42 開始 Ariel Nopre, Jr. - UPD-PH : Replying to "Do you implement any..."

Sorry the image size must be 345.6kB not 813.24kB.

Given the downlink rate and image size, the downlink time is 9.6mins.

23:28:26 開始 Janardhan Silwal [Antarikchya, Nepal] : Replying to "Do you implement any..."

you are downloading the compressed JPEG, not RAW image then?

23:30:08 開始 Adrian C. Salces (PhilSA) : We are still improving our GS so we can receive ACK.

23:30:27 開始 Adrian C. Salces (PhilSA) : I think uplink itself is OK. Downlink signal is weaker and more challenging to receive.

23:30:44 開始 Ariel Nopre, Jr. - UPD-PH : Replying to "Do you implement any..."

with the specs given, I'm referring to the raw images

23:30:57 開始 Adrian C. Salces (PhilSA) : So we have to improve our GS antenna pointing, perhaps.

23:31:40 開始 Janardhan Silwal [Antarikchya, Nepal] : Replying to "Do you implement any..."

I see. Thanks!

23:32:07 開始 Ariel Nopre, Jr. - UPD-PH : Replying to "Do you implement any..."

Thank you, Sir!

23:32:56 開始 Zamba Leonel - South Sudan : Thanks for the great
information shared
23:33:08 開始 Sanath P_ ACCIMT _Sri Lanka : Thanks for all the
presentations. All the best with
Maya-7!
23:33:15 開始 Ariel Nopre, Jr. - UPD-PH : Reacted to "Thanks for all
the p..." with
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23:33:17 開始 Adrian C. Salces (Philsa) : Reacted to "Thanks for all
the p..." with
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23:33:18 開始 Ariel Nopre, Jr. - UPD-PH : Reacted to "Thanks for the
great..." with
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23:33:25 開始 Adrian C. Salces (Philsa) : Reacted to "Thanks for the
great..." with
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23:33:59 開始 T. Fuse (Kyutech) : Reacted to "Thanks for all the p..."
with
23:34:04 開始 Adrian C. Salces (Philsa) : Thank you all for your
attention