

The background is a solid blue gradient. Overlaid on this are several thin, white, curved lines that flow from the left side towards the right, creating a sense of movement and depth. These lines are more densely packed in some areas, forming a wave-like pattern that peaks towards the right side of the image.

# HANDS-ON PREPARATION

## JULY 27, 2022

# CHECK THE UPDATE OF THE CLASS MATERIALS

Link:

<https://indico.narit.or.th/event/165/timetable/#20220727>

## Planetary Science and Astrophysics

27-31 July 2022  
MELIÁ HOTEL INTERNATIONAL  
Asia/Bangkok timezone

Overview

Scientific Programme

Timetable

Contribution List

Participant List

Organizing Committee

Accommodation, Travel &  
Visa

COVID-19 Information

Workshop Venue

Contact

✉ [suwichawan@gmail.com](mailto:suwichawan@gmail.com)

Timetable

< Wed 27/07 Thu 28/07 Fri 29/07 Sat 30/07 Sun 31/07 All days >

Print PDF Full screen Detailed view Filter

14:00	<b>Registration</b> <i>Khom Room, MELIÁ HOTEL INTERNATIONAL</i> 14:00 - 14:30
	<b>Break</b> <i>Khom Room, MELIÁ HOTEL INTERNATIONAL</i> 14:30 - 15:00
15:00	<b>Opening Remark</b> <i>Khom Room, MELIÁ HOTEL INTERNATIONAL</i> 15:00 - 16:30

# DOWNLOAD THE MATERIALS 1

1. Go through  
each session and  
download the  
materials

1.1  
“Left click” at the  
clipper sign, and  
download all  
Lecture Note.

Quick-download only

27-31 July 2022  
MELIÁ HOTEL INTERNATIONAL  
Asia/Bangkok timezone

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### Timetable

< Wed 27/07 Thu 28/07 **Fri 29/07** Sat 30/07 Sun 31/07 All days >

Print PDF Full screen Detailed view Filter

09:00

**Session 3: Monsoon and aerosol study**  
Khom Room, MELIÁ HOTEL INTERNATIONAL 09:30 - 10:30

**Break**  
Khom Room, MELIÁ HOTEL INTERNATIONAL 10:30 - 11:00

11:00

**Session 4: Ionosphere and Equatorial plasma bubble**  
Khom Room, MELIÁ HOTEL INTERNATIONAL 11:00 - 12:00  
Pornchai Supnithi

Training\_CMU\_23\_July\_2022\_Lectures\_Pr of Pornchai.pdf

# DOWNLOAD THE MATERIAL 1

1.2  
“Left click” at the  
clipper sign, and  
download all the  
data.

Quick-download only

14:00

*Khom Room, MELIÁ HOTEL INTERNATIONAL*

13:00 - 14:30

**Break**

*Khom Room, MELIÁ HOTEL INTERNATIONAL*

15:00

**Hands-on Activities: Ionosphere and Equatorial plasma bubble: computer analysis**



[Training\\_CMU\\_23\\_July\\_2022\\_Hand\\_on\\_session\\_ProfPornchai.pdf](#)

Data

16:00

*Khom Room, MELIÁ HOTEL INTERNATIONAL*

[TEC\\_CHM\\_DOY\\_130\\_2022 - Edit.xlsx](#)

[TEC\\_CHM\\_DOY\\_163\\_2022 - Edit.xlsx](#)

[TEC\\_CHM\\_DOY\\_169\\_2022 - Edit.xlsx](#)

[TEC\\_CHM\\_Jun\\_176\\_2022 -Edit.xlsx](#)



Download the materials 1

Left click at the session and Left click on the top right corner, at the tab "view contribution detail"

# Complete session review

Navigation: Wed 27/07 | Thu 28/07 | **Fri 29/07** | Sat 30/07 | Sun 31/07 | All days

Actions: Print | PDF | Full screen | Detailed view | Filter

09:00

**Session 3: Monsoon and aerosol study**

Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL

09:30 - 10:30

**Break**

Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL

11:00

**Session 4: Ionosphere and Equatorial plasma bubble**

Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL

12:00

**Lunch**

Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL

13:00

**Session 3 Hands-on Activities: Atmospheric models: Visualizing Atmospheric Forecast Data using Panoply**

The participants will have to process model output data given by the TAs (180 GB). A smaller version at 5.7 GB is uploaded here:

<https://drive.google.com/drive/folders/1HKvR-xVKe33vPh-n53vAr2PXAIP1zEIF7?usp=sharing>

13:00 - 14:30

Yi Peng 1, Floor 2 (MELIÁ HOTEL INTERNATIONAL)

46, 48 Charoenprathet Road Chang Khlan, Thailand 50100

ai Supnithi

View contribution details

## Session 3 Hands-on Activities: Atmospheric models: Visualizing Atmospheric Forecast Data using Panoply



📅 29 Jul 2022, 13:00

🕒 1h 30m

📍 Yi Peng 1, Floor 2 (MELIÁ HOTEL INTERNATIONAL)

### Description

The participants will have to process model output data given by the TAs (180 GB). A smaller version at 5.7 GB is uploaded here:

<https://drive.google.com/drive/folders/1HKvR-XVKe33vPh-n53xAt2RXAIPzEIF?usp=sharing>

Also in this session, the participants need to download the Panoply software from:

<https://www.giss.nasa.gov/tools/panoply/>

### 🔗 Presentation Materials



📄 Panoply\_starter\_guide\_v2.pdf



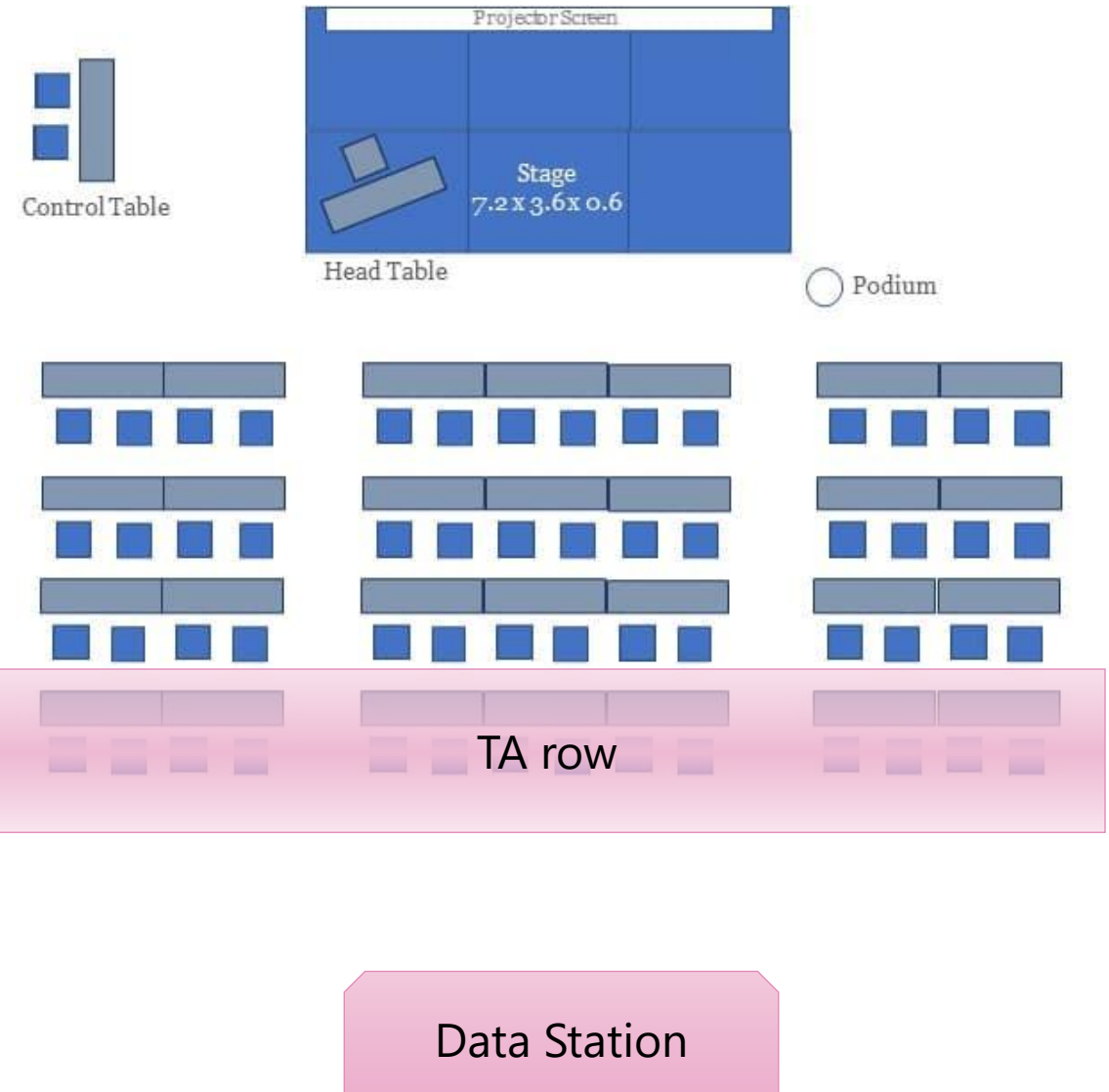
**Not only the data, guideline file, but also some instruction may be given.**

# DOWNLOAD THE MATERIAL 2

## 2. Visit the Data Station

Note: could be a long line, please visit only when

- The data is too big
- The data is not available online.
- Not convenient to download by yourselves



# Session Highlights



Timetable

< Wed 27/07 **Thu 28/07** Fri 29/07 Sat 30/07 Sun 31/07 All days >

Print PDF Full screen Detailed view Filter

09:00	
	<div><div>Session 1: Exoplanet atmospheric study using the transmission spectroscopy technique</div><div>Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL09:30 - 10:30</div></div>
10:00	<div><div>Break</div><div>Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL10:30 - 11:00</div></div>
11:00	<div><div>Session 2: Spectroscopy and Photometry of Exoplanet Atmospheres Research NETWORK (SPEARNET)</div><div>Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL11:00 - 12:00</div></div>

“Exoplanet day”

Thursday  
July, 28

13:00	<div><div>Session 1 Hands-on Activities: TESS transit light curve</div><div>Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL13:00 - 14:30</div></div>
14:00	<div><div>Break</div><div>Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL14:30 - 15:00</div></div>
15:00	<div><div>Session 2 Hands-on Activities: TESS transit light curve</div><div>Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL15:00 - 16:30</div></div>
16:00	

Timetable						
<div> <span>&lt;</span> <span>Wed 27/07</span> <span>Thu 28/07</span> <span><b>Fri 29/07</b></span> <span>Sat 30/07</span> <span>Sun 31/07</span> <span>All days</span> <span>&gt;</span> </div> <div> <span>Print</span> <span>PDF</span> <span>Full screen</span> <span>Detailed view</span> <span>Filter</span> </div>						
09:00						
	<b>Session 3: Monsoon and aerosol study</b>					
10:00	<i>Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL</i> 09:30 - 10:30					
	<b>Break</b>					
	<i>Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL</i> 10:30 - 11:00					
11:00	<b>Session 4: Ionosphere and Equatorial plasma bubble</b> <i>Pornchai Supnithi</i> <a href="#">🔗</a>					
	<i>Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL</i> 11:00 - 12:00					

“ATM &  
Ionospheric day”

Friday  
July, 29

13:00	<b>Session 3 Hands-on Activities: Atmospheric models: Visualizing Atmospheric Forecast Data using Panoply</b> <a href="#">🔗</a>	
	<i>Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL</i> 13:00 - 14:30	
14:00	<b>Break</b>	
	<i>Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL</i> 14:30 - 15:00	
15:00	<b>Session 4 Hands-on Activities: Ionosphere and Equatorial plasma bubble: computer analysis</b> <a href="#">🔗</a>	
16:00	<i>Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL</i> 15:00 - 16:30	

# Some tips

## Session 3 Hands-on Activities: Atmospheric models: Visualizing Atmospheric Forecast Data using Panoply

*The participants will have to process model output data given by the TAs (180 GB). A smaller version at 5.7 GB is uploaded here:*

<https://drive.google.com/drive/folders/1HKvR-XVKe33vPh-n53xAI2RXAIPzEIF?usp=sharing>

13:00 - 14:30

Yi Peng 1, Floor 2 (MELIÁ HOTEL INTERNATIONAL)  
46, 48 Charoenprathet Road Chang Khlan, Thailand 50100

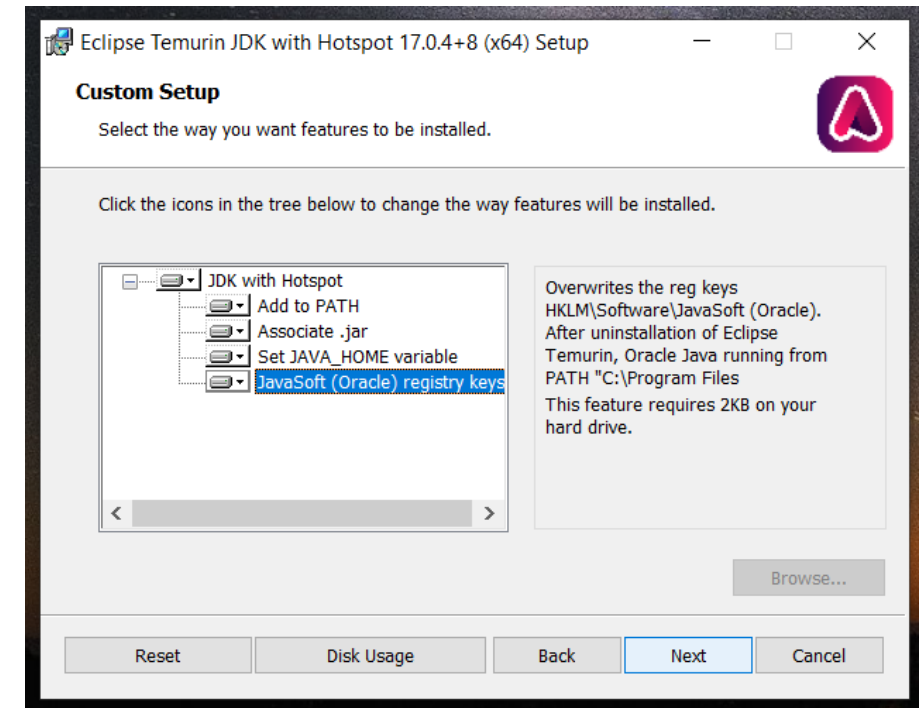
## Follow the guide

 Panoply\_starter\_guide\_v2.pdf

Friday July, 29

**1. Java 11 is needed before you can run Panoply.**

**2. Java 11 installation: THE MUST!!! Custom setting.**



**3. Running the 180 GB file!!!!, you might need external hard drive.**

# More tips

Friday July, 29

## Session 4 Hands-on Activities: Ionosphere and Equatorial plasma bubble: computer analysis

*In this session, we will study the characteristics of Slant TEC and Vertical TEC (VTEC) at Chiangmai GNSS station and compare with the TEC from the IRI model. In addition, we will investigate the Kp index (disturbance to Earth's magnetic field) on those*

🕒 15:00 - 16:30  
📍 Yi Peng 1, Floor 2 (MELIÁ HOTEL INTERNATIONAL)  
46, 48 Charoenprathet Road Chang Khlan, Thailand 50100

**Model Output is in Excel format you can display them with**

- **MATLAB**
- **Excel**
- **Computer language: C, Python, etc.**

15:00

Session 4 Hands-on Activities: Ionosphere and Equatorial plasma bubble: computer analysis

16:00

Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL

Training\_CMU\_23\_July\_2022\_Hand\_on\_session\_ProfPornchai.pdf

Data

TEC\_CHM\_DOY\_130\_2022 - Edit.xlsx

TEC\_CHM\_DOY\_163\_2022 - Edit.xlsx

TEC\_CHM\_DOY\_169\_2022 - Edit.xlsx

TEC\_CHM\_Jun\_176\_2022 -Edit.xlsx

Wed 27/07	Thu 28/07	Fri 29/07	<b>Sat 30/07</b>	Sun 31/07	All days	>
<div> <div>Print</div> <div>PDF</div> <div>Full screen</div> <div>Detailed view</div> <div>Filter</div> </div>						
09:00						
<div> <div>Session 5: Introduction of geomagnetic substorm</div> <div>Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL</div> <div>09:30 - 10:30</div> </div>						
10:00						
<div> <div>Break</div> <div>Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL</div> <div>10:30 - 11:00</div> </div>						
11:00						
<div> <div>Session 5 Hands-on Activities: CEF and possible on-demand analysis tools e.g., NASA CDAWeb</div> <div>Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL</div> <div>11:00 - 12:00</div> </div>						

“Substorm Day”

Saturday  
July, 30

12:00	<div> <div>Lunch</div> <div>Long lunch!!</div> <div>Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL</div> <div>12:00 - 13:45</div> </div>	
13:00		
14:00	<div> <div>Session 6: High latitude electrodynamics: The asymmetric connection to space</div> <div>Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL</div> <div>13:45 - 14:30</div> </div>	
15:00	<div> <div>Break</div> <div>Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL</div> <div>14:30 - 15:00</div> </div>	
16:00	<div> <div>Session 6 Hands-on Activities: High-school level outreach projects</div> <div>Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL</div> <div>15:00 - 16:30</div> <div>tip: Direct calculation, follow the instruction step-by-step</div> </div>	



# Some tips

## Session 7 Hands-on Activities: Online resources for atmospheric compositions during geomagnetic substorm

🕒 11:00 - 12:00

Yi Peng 1, Floor 2 (MELIÁ HOTEL INTERNATIONAL)  
46, 48 Charoenprathet Road Chang  
Khlan, Thailand 50100

## Follow the step-by-step guideline

 [220730\\_psa\\_ws\\_thailand\\_hands-on\\_miyashita.pdf](#)


# Saturday July, 30

1. open both the presentation file and a browser on a computer at the same time so that we can copy and paste the addresses of the websites.
2. **CHOOSE data type first!!** Before click **submit!!**

## ■ How to Use CDAWeb (2)

**(2) Select data set.**

- Click “Click here to CLEAR All checkboxes”.
- Select “THD\_L2\_ESA” and “THD\_L2\_FGM”.
- Click the “Submit” button.



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**CDWeb Data Selector**

**Coordinated Data Analysis Web**

**CDWeb Data Selector**

Go to forward to plot, and retrieve your selected data, press the "submit" button below of the "Data Selection" page.

For any special needs to access of a given data set, please click on that data set name below.

As needed to select the datasets of actual interest to you:

[Normally check the checkboxes on the more data sets from the list below OR](#)

[Click Here to Refresh Available Data Sets](#) OR

[Click Here to Refresh Available Data Sets](#)

**Submit**

☐ **THEMIS\_RI\_GFWALK** Links to THEMIS pre-generated MP Crossing Survey plots - David Sibeck (NASA GSFC)

[Available Time Range: Select details for details](#) [Info](#) [Metadata](#)

**THEMIS\_L2\_ESA-THemis-E-PSI** Electrostatic Analyzer (ESA) Electron/Ground-Calculated-Energy Fluxes (ions: 5 eV to 25 keV; electrons: 0.5 eV to 30 keV) and Moments (density, velocity, pressure, and temperature). Includes FULL, REDUCED and BURST moments. FULL: high angular resolution, low (ten min) time resolution. REDUCED: degraded angular resolution, high (approx. 3 sec) time resolution. BURST: high angular resolution, high time resolution, only short bursts of data. Note that angular resolution effects moments since they are obtained integrating over the mode-specific angular distribution. - V. Angelopoulos, C.V. Carlsson & J. McFadden (USA, NASA NAS5-02999)

[Available Time Range: 2007/04/07 00:00:00 - 2007/07/18 00:00:00](#) [Info](#) [Metadata](#)

**THEMIS\_L2\_ESA-THemis-C-P1ARTS-PM1** Electrostatic Analyzer (ESA) Electron/Ground-Calculated-Energy Fluxes (ions: 5 eV to 25 keV; electrons: 0.5 eV to 30 keV) and Moments (density, velocity, pressure, and temperature). Includes FULL, REDUCED and BURST moments. FULL: high angular resolution, low (ten min) time resolution. REDUCED: degraded angular resolution, high (approx. 3 sec) time resolution. BURST: high angular resolution, high time resolution, only short bursts of data. Note that angular resolution effects moments since they are obtained integrating over the mode-specific angular distribution. - V. Angelopoulos, C.V. Carlsson & J. McFadden (USA, NASA NAS5-02999)

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**THEMIS\_L2\_ESA-THemis-C-P2ARTS-PM2** Electrostatic Analyzer (ESA) Electron/Ground-Calculated-Energy Fluxes (ions: 5 eV to 25 keV; electrons: 0.5 eV to 30 keV) and Moments (density, velocity, pressure, and temperature). Includes FULL, REDUCED and BURST moments. FULL: high angular resolution, low (ten min) time resolution. REDUCED: degraded angular resolution, high (approx. 3 sec) time resolution. BURST: high angular resolution, high time resolution, only short bursts of data. Note that angular resolution effects moments since they are obtained integrating over the mode-specific angular distribution. - V. Angelopoulos, C.V. Carlsson & J. McFadden (USA, NASA NAS5-02999)

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☒ **THEMIS\_L2\_ESA-THemis-E-PSI** Electrostatic Analyzer (ESA) Electron/Ground-Calculated-Energy Fluxes (ions: 5 eV to 25 keV; electrons: 0.5 eV to 30 keV) and Moments (density, velocity, pressure, and temperature). Includes FULL, REDUCED and BURST moments. FULL: high angular resolution, low (ten min) time resolution. REDUCED: degraded angular resolution, high (approx. 3 sec) time resolution. BURST: high angular resolution, high time resolution, only short bursts of data. Note that angular resolution effects moments since they are obtained integrating over the mode-specific angular distribution. - V. Angelopoulos, C.V. Carlsson & J. McFadden (USA, NASA NAS5-02999)

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**THEMIS\_L2\_ESA-THemis-E-PSI** Electrostatic Analyzer (ESA) Electron/Ground-Calculated-Energy Fluxes (ions: 5 eV to 25 keV; electrons: 0.5 eV to

# Sunday July, 31

	Wed 27/07	Thu 28/07	Fri 29/07	Sat 30/07	Sun 31/07	All days
	<div>  Print            PDF            Full screen            Detailed view            Filter         </div>					
09:00	<div> <b>Session 7: Atmospheric compositions and related space missions</b> </div>					
10:00	<div> <i>Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL</i> <span>09:30 - 10:30</span> </div>					
	<div> <b>Break</b> </div>					
	<div> <i>Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL</i> <span>10:30 - 11:00</span> </div>					
11:00	<div> <b>Session 7 Hands-on Activities: Online resources for atmospheric compositions during geomagnetic substorm</b> </div>					
	<div> <h1>Follow the guideline</h1> </div>					
	<div> <i>Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL</i> <span>11:00 - 12:00</span> </div>					
13:00	<div> <b>Closing Remark</b> </div>					
14:00	<div> <i>Yi Peng 1, Floor 2, MELIÁ HOTEL INTERNATIONAL</i> </div>					

# Participation Certificate REQUIREMENT

The **participation certificates** will be given to the participants who either

- Join the workshop **ONLINE** and signup for the lecture sessions and hands-on sessions via Google form (twice, daily) not less than **80%** of all sessions.

- Join the workshop **ONSITE** and signup at the registration table (twice each day) for not less than **80%** of all sessions.

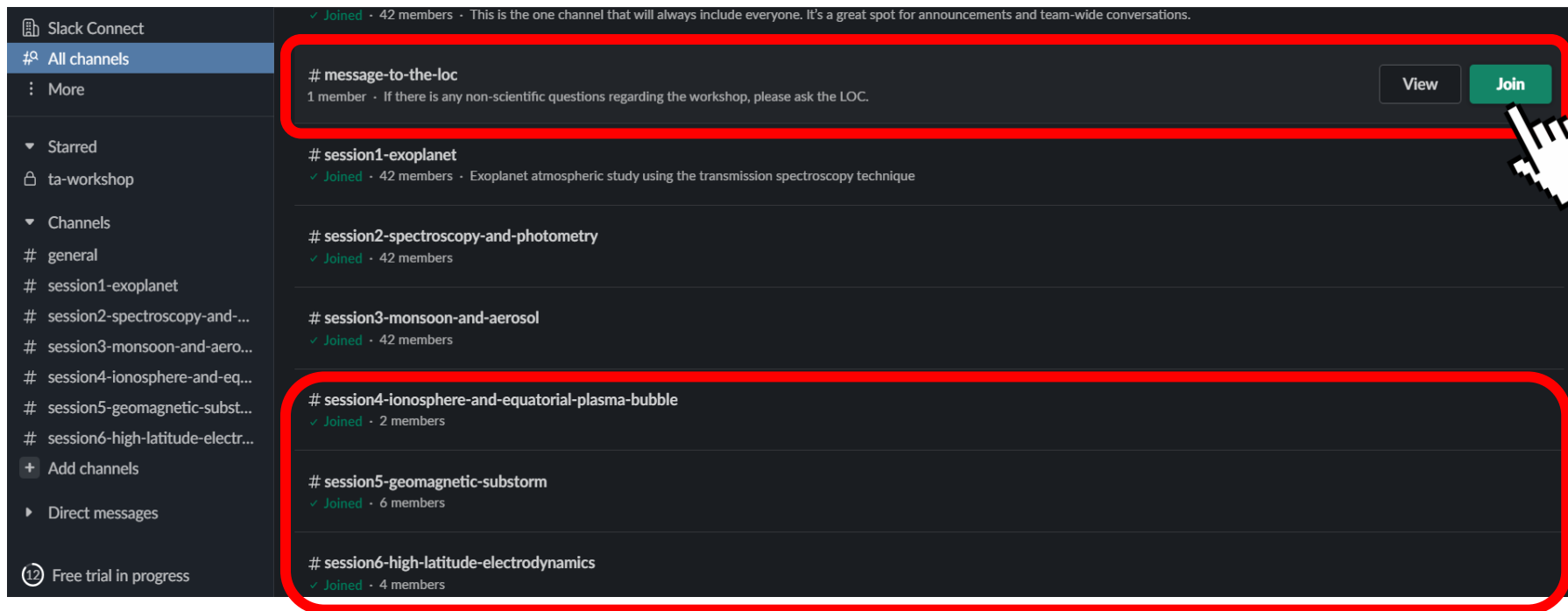
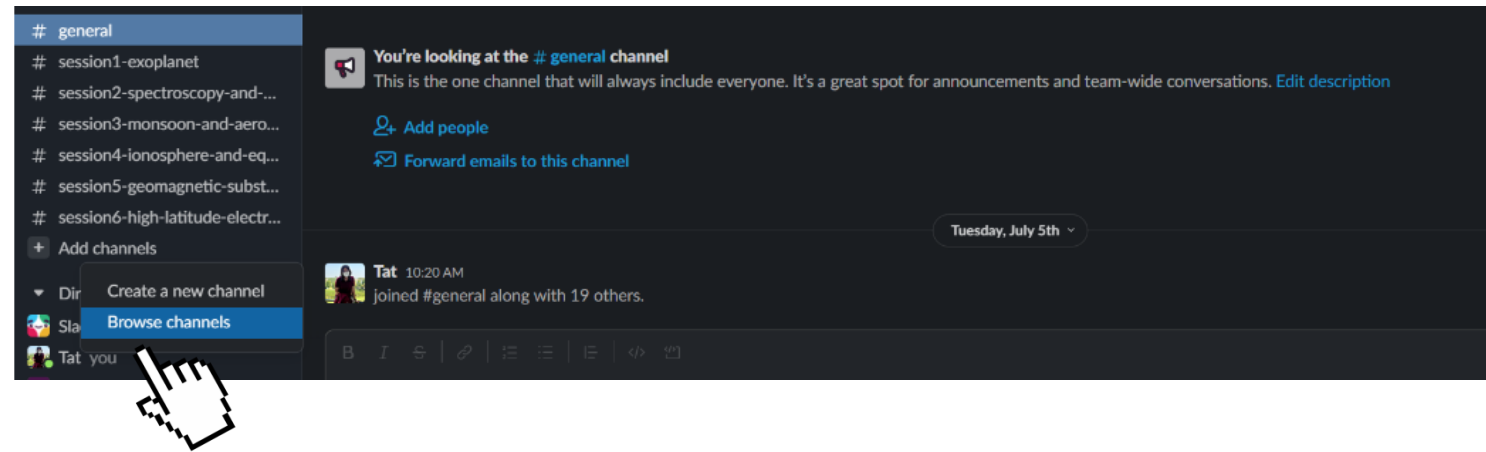
**Giving as a google link and QR in ZOOM meeting at the beginning of Morning and Afternoon sessions every day, starting from July 28 to July 31.**

**Signup at the registration table at the beginning of Morning and Afternoon sessions every day, starting from July 28 to July 31.**

# SLACK Application Notice



Channels for session 4, 5, and 6 are created. You can join by go to **Add channels → Browse channels**. Then click to join each session.



If anyone has a general question except lecture, you can join the channel

**message to the loc** and leave your question there.

# **If you have any questions, please**

1. Ask any LOCs and the TAs
2. Post your question in the SLACK application
3. Ask via zoom (raised your hand, and wait for the MC to notify) or post your question in the comment section in the zoom meeting.