



2025 TGA

臺灣地球科學 聯合學術研討會

Taiwan Geosciences Assembly

氣候與環境變遷 | 地球科學新視野

Climate and Environmental Changes: Emerging Horizons in Earth Sciences

2025 年 6 月 16 日至 19 日

台北南港展覽館 1 館 4-5 樓



2025臺灣地球科學聯合學術研討會
Taiwan Geosciences Assembly
<https://2025tga.tcgu.org.tw/>

TAIPEI, TAIWAN



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Applications

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Applications

- High resolution imaging using portable high-density networks
- Network densification
- Rapid response
- Temporary seismic investigations



Arolla

Broadband Seismometer



Applications

- Study of local, regional, and teleseismic events
- National seismic networks
- Earth mode observations
- Site surveys



SS08C

Compact Broadband Seismometer



Applications

- Observatory grade Earthquake seismology
- Reservoir microseismic monitoring
- Soil property inspection and evaluation
- Microzonation



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Sanlien Technology, a family-founded company based in Taiwan, has been a leader in manufacturing geotechnical, structural, and vibration monitoring instruments since 1967. Established by J.C. Lin, Sanlien has grown over the decades and was publicly listed on the Taiwan Stock Exchange in 2001. With a global presence supported by a network of partners, the Sanlien Group now employs over 350 professionals.

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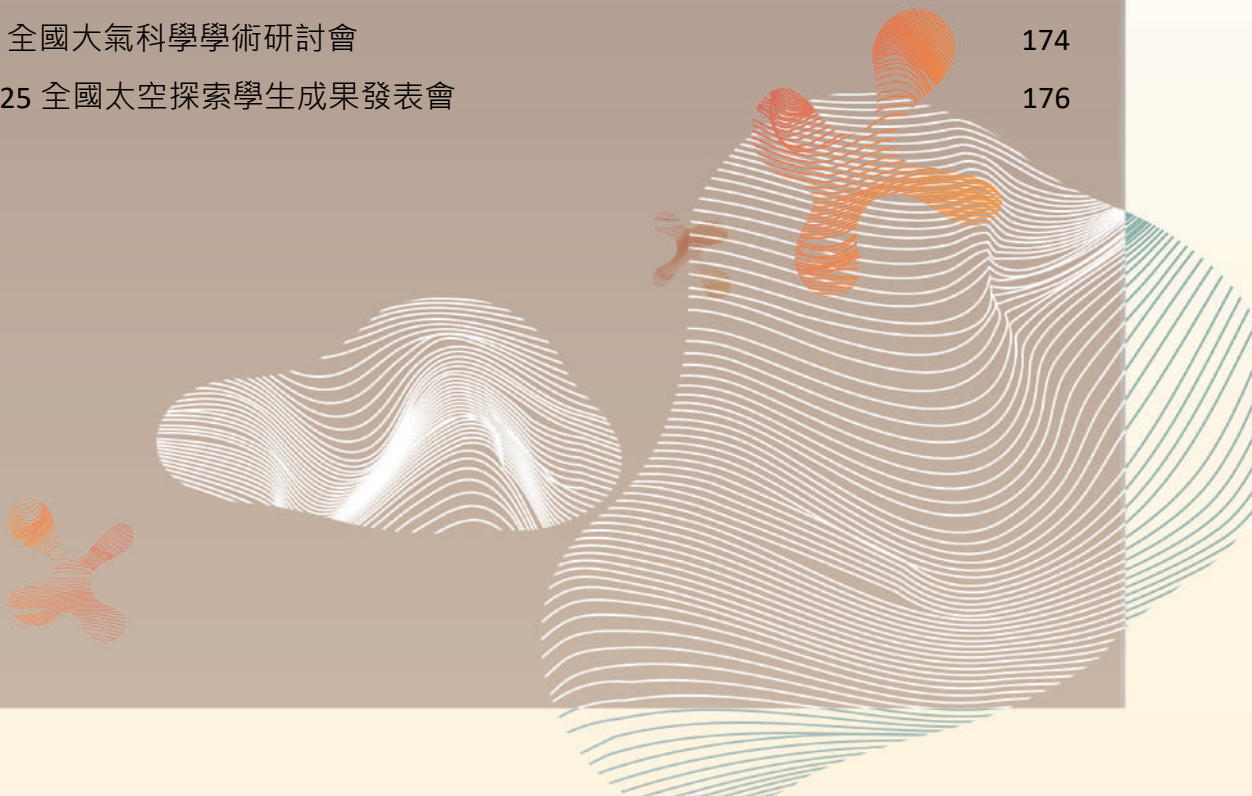
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大會資訊 General Information

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2025 臺灣地球科學聯合學術研討會

2025 Taiwan Geosciences Assembly

時間：2025/06/16-06/19

地點：台北南港展覽館一館 4-5 樓

大會主題

氣候與環境變遷 – 地球科學新視野

Climate and Environmental Changes: Emerging Horizons in Earth Sciences

會議宗旨

隨著全球氣候變遷的加劇，極端氣候現象的頻率和強度不斷攀升，自然災害的威脅日益嚴峻。臺灣位於全球最大海洋與最大陸塊交會處，地形複雜且冷熱氣團交匯，雖然擁有豐富的自然資源，但同時也面臨颱風、地震、山崩及土石流等多重災害挑戰。這些變遷不僅對自然生態系統構成威脅，更對人類社會的安全、農業生產和水資源管理帶來嚴峻的挑戰。本次臺灣地球科學聯合會以「氣候與環境變遷—地球科學新視野」為主題，重點探討在人類如何在氣候與環境變遷的背景下，透過有效的氣候調適策略實現與自然環境的和諧共存。我們將強調跨領域合作的重要性，並邀請來自太空科學、大氣科學、地質學、水文學、地球物理學、地理學、海洋學、測地學及科學教育等領域的國內外專家學者，發表並討論地球科學領域的最新研究成果，透過此次聯合會議，同時希望提升社會與政府對氣候與環境變遷及其調適策略的重視，並實現人類與地球永續共存的美好願景。

主辦單位

中華民國地球科學學會、中華民國太空科學學會、中華民國地球物理學會、中華民國地質學會、中華民國氣象學會、中華民國海洋學會、中華民國測地學會、國立臺灣師範大學科學教育研究所及地球科學系、臺灣地下水資源暨水文地質學會

協辦單位

地球科學研究推動中心、中國文化大學、國立中山大學、國立中央大學、國立成功大學、國立臺灣大學、國立臺灣師範大學、國立雲林科技大學、國立臺灣師範大學高等教育深耕計畫特色領域研究中心—學習科學跨國頂尖研究中心、交通部中央氣象署

指導單位

國家科學及技術委員會

會議組織 Committee

指導委員會

召集人

中華民國地球科學學會 吳俊傑 理事長

委員

中華民國太空科學學會 朱延祥 理事長
 中華民國地球物理學會 陳建志 理事長
 中華民國地質學會 劉雅瑄 理事長
 中華民國氣象學會 林沛練 理事長
 中華民國海洋學會 楊穎堅 理事長
 中華民國測地學會 郭重言 理事長
 國立臺灣師範大學地球科學系 黃婉如 主任
 臺灣地下水資源暨水文地質學會 張竝瑜 理事長

籌備委員

召集人

中華民國地球科學學會 羅敏輝 秘書長

委員

中華民國太空科學學會 蘇清論 秘書長
 中華民國地球物理學會 王士榮 秘書長
 中華民國地質學會 顏一勤 秘書長
 中華民國氣象學會 鍾高陞 秘書長
 中華民國海洋學會 邱永盛 秘書長
 中華民國測地學會 景國恩 秘書長
 國立臺灣師範大學科學教育研究所及地球科學系 楊芳瑩 教授
 臺灣地下水資源暨水文地質學會 陳祐誠 秘書長

工作執行小組

總幹事

國立臺灣大學大氣科學系 游政谷 教授
 林博雄 教授

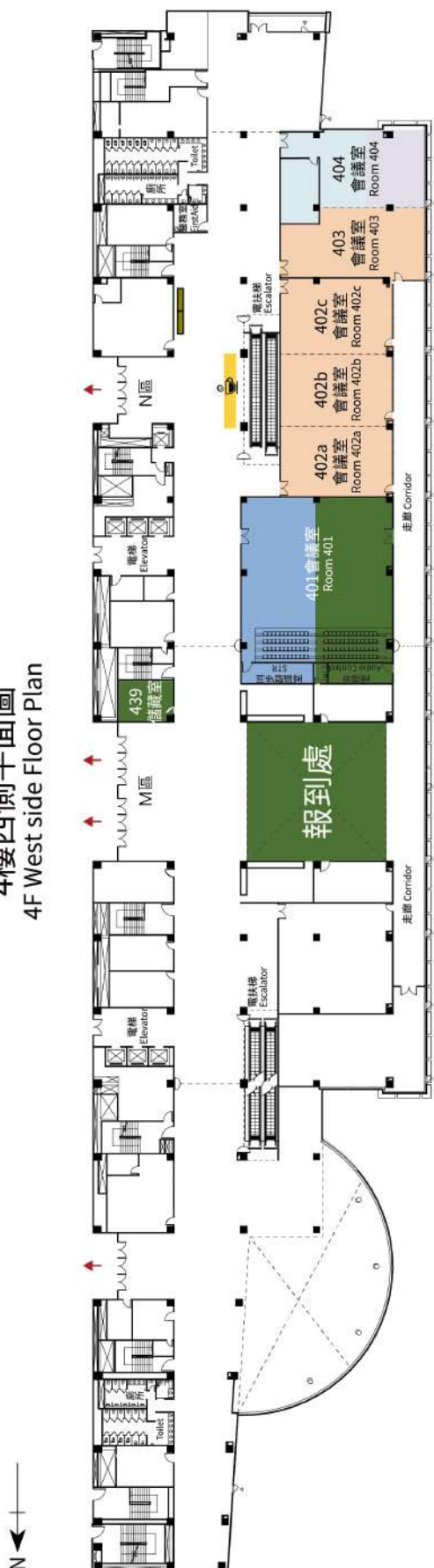
小組名單

中華民國地球科學學會 黃旻熒
 中華民國地球科學學會 陳逸雯
 中華民國地球科學學會 林星辰
 中華民國地球物理學會 張采如
 中華民國地質學會 翁熙甯
 中華民國氣象學會 陳冠婷
 中華民國海洋學會 李柏青
 中華民國測地學會 陳芊如
 國立臺灣師範大學科學教育研究所及地球科學系 黃仕雯
 臺灣地下水資源暨水文地質學會 王薈芳

會議室及展覽平面圖 Floor Plans

南港路一段
Nangang Rd., Sec. 1

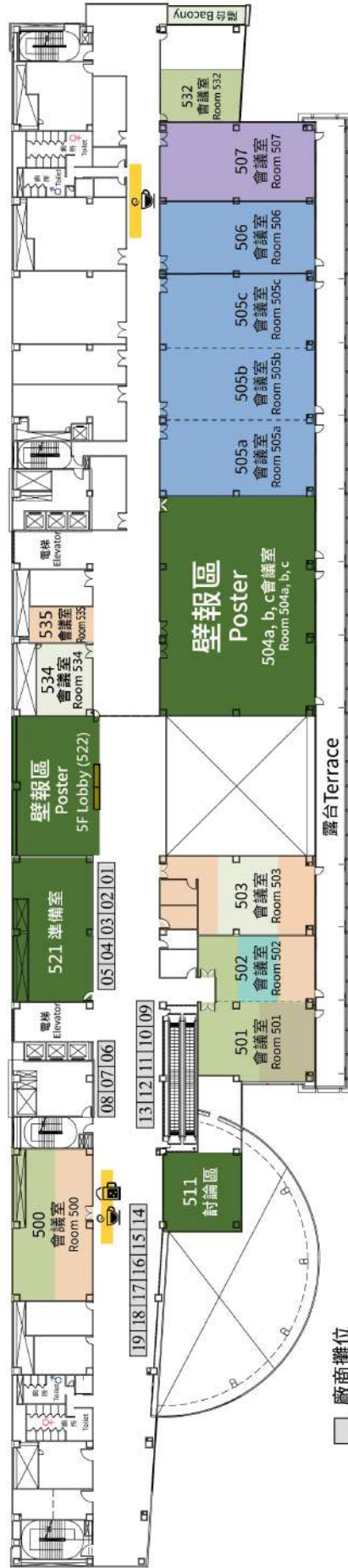
4樓西側平面圖
4F West side Floor Plan



經貿二路
Jingmao 2nd Rd.

TGA	2025 臺灣地球科學聯合會 2025 Taiwan Geosciences Assembly	EE	永續發展觀點下的地球科學教育與傳播 Earth Science Education and Communication from the Perspective of Sustainable Development
GS	2025 中華民國地球物理學會及中華民國地質學會年會暨學術研討會 2025 Annual Conference of Chinese Taipei Geophysical Society & Geological Society Located in Taipei	SS	2025 全國太空探索學生成果發表會 2025 Student Space Exploration Exhibition
OC	2025 海洋科學年會暨國際海洋科學專門成果發表會 2025 Ocean Sciences Conference		

5樓西側平面圖
5F West side Floor Plan



廠商攤位

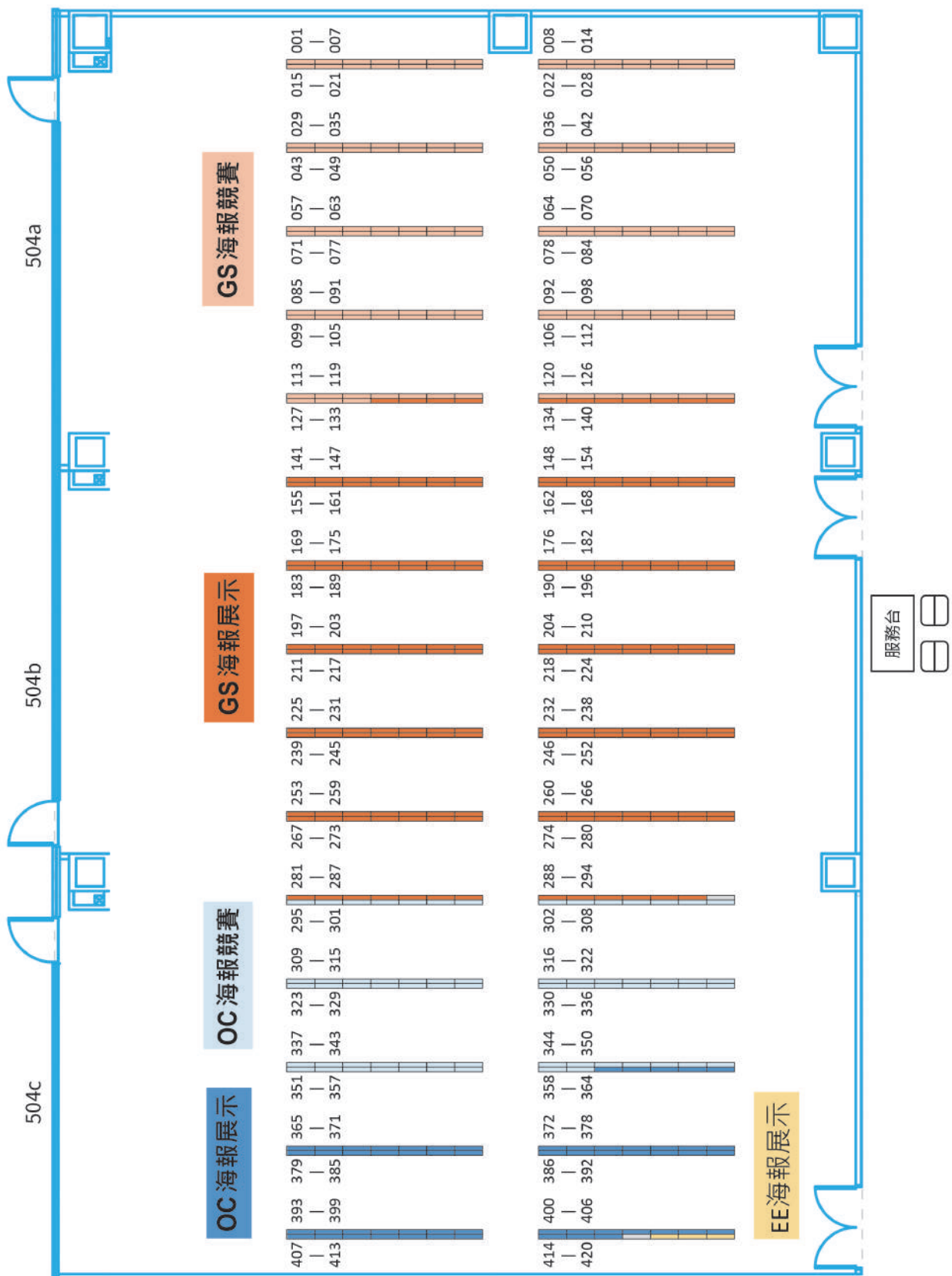
編號	攤位招牌名稱
TGA01	三聯科技
TGA02	伊思艾股份有限公司
TGA03	鎮儀企業有限公司
TGA04	AST 和航貿易 / 和特科技
TGA05	SGS - BETA實驗室
TGA06	地謙中心
TGA07	JpGU
TGA08	地科推動中心
TGA09	地震風險中心
TGA10	台灣地震科學中心
TGA11	台灣地震科學資訊服務平台
TGA12	台灣地質科學資料庫
TGA13	昇航公司 AST
TGA14	元利儀器
TGA15	鈺迪科技
TGA16	龍發集團
TGA17	全拓科技
TGA18	
TGA19	

經貿二路
Jingmao 2nd Rd.

TGA	2025 臺灣地球科學聯合會 2025 Taiwan Geosciences Assembly	LSUB	地層下陷監測與防治研討會 The 3rd Land Subsidence Induced by Fluid Extraction 2025
GS	2025 中華民國地球物理學會及中華民國地質學會年會暨學術研討會 2025 Annual Conference of Chinese Taipei Geophysical Society & Geological Society Located in Taipei	OC	2025 海洋科學年會暨國際社會海洋學門成果發表 2025 Ocean Sciences Conference
AS-C	全國大氣科學學術研討會 National Atmospheric Sciences Conference	GW	第17屆地下水資源及水質保護研討會 2025 17th Conference on Groundwater Resources & Water Quality Protection
AS-U	大氣科學研究生研討會 Atmospheric Sciences Graduate Seminar	TAPS	2025 台灣極地研究專題研討會暨分享會 Taiwan Polar Research Seminar
OC-AS	海洋聯合實驗整合性研究 (海洋與大氣聯合課程) Integrated Study on Ocean-Atmosphere Joint Experiments		

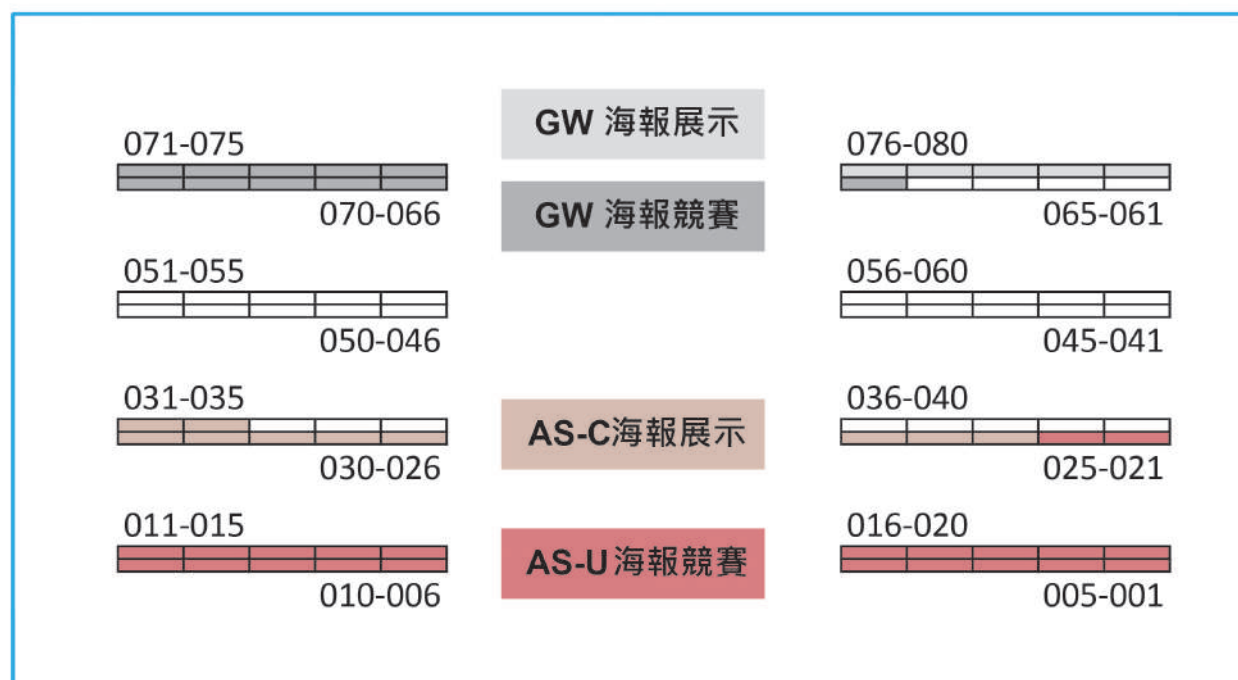
壁報展示平面圖 Poster Display

展示場次：GS, OC, EE | 展示地點：504abc | 展示日期：6/16-6/18



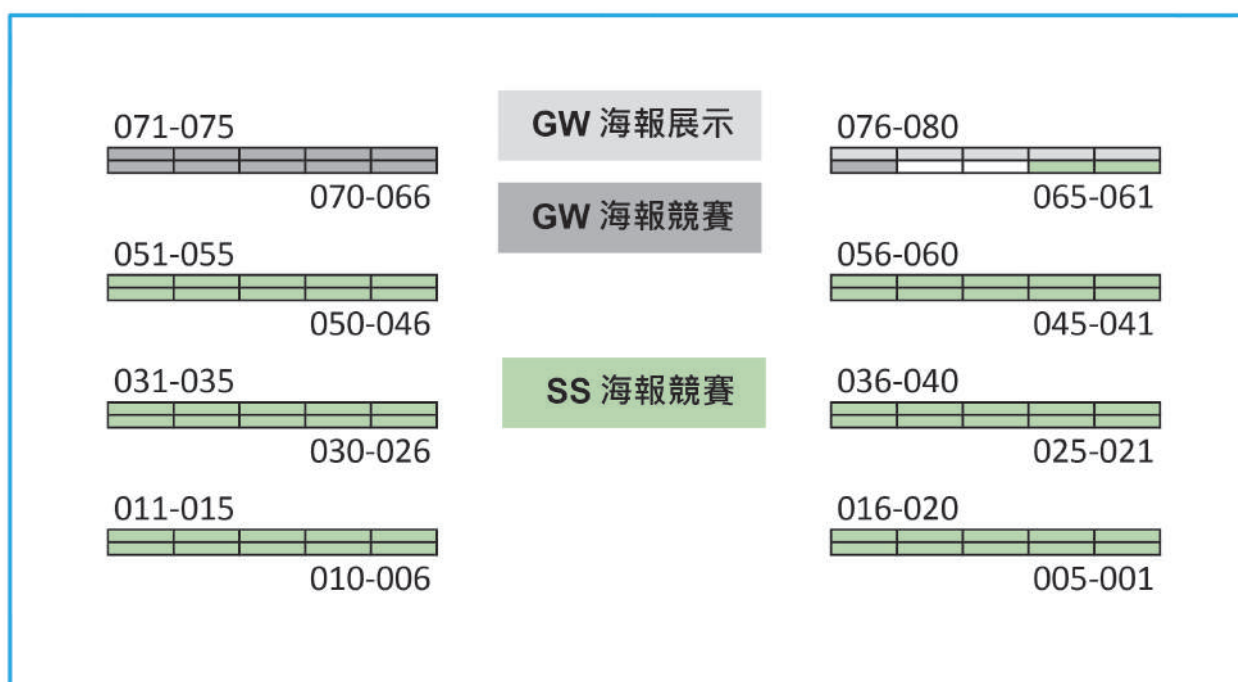
展示場次：GW, AS-U, AS-C | 展示地點：522 | 展示日期：6/16-6/17

請於 6/17 17:00 前撤除壁報



展示場次：GW, SS | 展示地點：522 | 展示日期：6/18

6/17 17:00 後張貼壁報



場地資訊 Information

06/16 (Mon.) – 06/18 (Wed.)		
08:00 - 17:00	大會報到 4 樓 M 區門廳	Registration 4F area M Lobby
08:00 - 17:00	海報展示及競賽 504 會議室、5 樓大廳(522)	Poster Display and Competition Room 504, 5F Lobby (522)
12:00-13:00	中午休息	Lunch Break
10:00 - 10:30 15:00 - 15:30	茶點供應 402c 室、500 室及 507 室前	Drinks and Snacks Room 402c, 500 and 507
15:00 - 15:30	啤酒時間 500 室前	Beer Time Room 500

06/19 (Thu.)

2025 TGA 野外地質考察

時間：114 年 6 月 19 日 (星期四)

地點：台北市陽明山

行程：大油坑、TVO 大屯火山觀測站

學術研討會及論壇 Conferences and Forums

GS	2025 中華民國地球物理學會及中華民國地質學會年會暨學術研討會 2025 Annual Conference of Chinese Taipei Geophysical Society & Geological Society Located in Taipei
SS	2025 全國太空探索學生成果發表會 2025 Student Space Exploration Exhibition
OC	2025 海洋科學年會暨國科會海洋學門成果發表 2025 Ocean Sciences Conference
AS-U	2025 大氣科學研究生研討會 Atmospheric Sciences Graduate Seminar
TAPS	2025 台灣極地研究專題研討暨分享會 Taiwan Polar Research Seminar
EE	永續發展觀點下的地球科學教育與傳播 Earth Science Education and Communication from the Perspective of Sustainable Development
AS-C	全國大氣科學學術研討會 National Atmospheric Sciences Conference
LSUB	地層下陷監測與防治研討會 The 3rd LAnd Subsidence Induced by Fluid ExtRaction 2025
OC-AS	海洋聯合實驗整合性研究 (海洋與大氣聯合議程) Integrated Study on Ocean-Atmosphere Joint Experiments
GW	第 17 屆地下水資源及水質保護研討會 2025 17th Conference on Groundwater Resources & Water Quality Protection

大會議程總表 Program Overview

	Room	401	402a	402b	402c	403	404	500	501	502	503	504a	504b	504c	505a	505b	505c	506	507	532	534
2025/06/16 Monday	08:00-12:00	OC	GS	GS	GS	GS	EE	AS-C	AS-C	AS-C	GS	Poster presentation							GW		LSUB
	12:00-13:00																		GW		
	13:00-15:00	Opening					EE														
2025/06/17 Tuesday	15:30-17:00		GS	GS	GS	GS		AS-C	AS-C	AS-C	GS	Poster presentation			OC	OC	OC	OC	GW	TAPS	LSUB
	08:00-12:00		GS	GS	GS	GS	EE	AS-C	AS-C	AS-C	LSUB	Poster presentation			OC	OC	OC	OC	GW		
	12:00-13:00			GS							LSUB						OC				
2025/06/18 Wednesday	13:00-17:00		GS	GS	GS	GS	EE	AS-C	AS-C	AS-C	LSUB	Poster presentation			OC	OC	OC	OC	GW		
	08:00-12:00		GS	GS	GS	GS	SS	GS	AS-U	OC-AS	LSUB	Poster presentation			OC	OC	OC	OC	GW		
	12:00-13:00			GS			SS														
	13:00-17:00		GS	GS	GS	GS	SS	GS	AS-U	GS	GS	Poster presentation			OC	OC	OC	OC	GW		

GS	2025 中華民國地球物理學會及中華民國地質學會年會暨學術研討會 2025 Annual Conference of Chinese Taipei Geophysical Society & Geological Society Located in Taipei	AS-C	全國大氣科學學術研討會 National Atmospheric Sciences Conference
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OC	2025 海洋科學年會暨國科會海洋學門成果發表 2025 Ocean Sciences Conference	GW	第17屆地下水資源及水質保護研討會 2025 17th Conference on Groundwater Resources & Water Quality Protection
AS-U	大氣科學研究生研討會 Atmospheric Sciences Graduate Seminar	TAPS	2025 台灣極地研究專題研討暨分享會 Taiwan Polar Research Seminar
OC-AS	海洋聯合實驗整合性研究（海洋與大氣聯合課程） Integrated Study on Ocean-Atmosphere Joint Experiments		
EE	永續發展觀點下的地球科學教育與傳播 Earth Science Education and Communication from the Perspective of Sustainable Development		

2025 臺灣地球科學聯合學術研討會開幕式議程表

時間：中華民國 114 年 6 月 16 日 (星期一) 13:00 - 15:00

地點：401 會議室

時間	議程
	【開幕致詞】
13:00 - 13:15	主席致詞 ● 中華民國地球科學學會 吳俊傑理事長 貴賓致詞 ● 環境部 彭啓明部長 ● 國家科學及技術委員會 林法正副主任委員
13:15 - 13:25	【特邀分享】 題目：The Japan Geoscience Union: Building a Collaborative Future in Earth and Planetary Sciences 演講者：Prof. Simon Wallis (JpGU 主席) / 日本東京大學
13:25 - 13:35	【特邀分享】 題目：Asia Oceania Geosciences Society "in Asia, for Asia and the World", 25 years and beyond 演講者：Prof. Takehiko Satoh (AOGS 主席) / 日本宇宙航空研究開發機構
13:35 - 14:05	【特邀專題演講】 題目：常識與知識並重：在不疑處有疑 引言人：吳俊傑理事長 / 中華民國地球科學學會 演講者：陳鎮東院士 / 國立中山大學傑出講座教授
14:05 - 14:15	全體合影
14:15 - 14:15	大會開幕式禮成
14:15 - 14:45	【中華民國地球科學學會第十三屆第三次會員大會】
14:45 - 15:00	【地球科學集刊 Terr. Atmos. Ocean. Sci. Journal 頒獎典禮】 ● 2025 年大道新人獎 ● 2022 - 2024 年優良論文審查人獎 ● 2020 - 2024 年被引用次數最多論文獎 ● 百次引用獎
15:00 - 15:30	茶敘及休息時間

2025 Taiwan Geosciences Assembly Opening Ceremony Agenda

Time: June 16, 2025 (Mon.) 13:00 - 15:00

Venue: Room 401

Time	Agenda
	【 Opening Remarks 】
13:00 - 13:15	Chair ● Chun-Chieh Wu, President of Chinese Geoscience Union in Taiwan (TCGU) Invited Guests ● Chi-Ming Peng, Minister of Ministry of Environment, Taiwan ● Faa-Jeng Lin, Deputy Minister of National Science and Technology Council, Taiwan
13:15 - 13:25	【 Invited Presentation 】 Topic: The Japan Geoscience Union: Building a Collaborative Future in Earth and Planetary Sciences Speaker: Simon Wallis (President of Japan Geoscience Union) Professor of The University of Tokyo, Japan
13:25 - 13:35	【 Invited Presentation 】 Topic: Asia Oceania Geosciences Society "in Asia, for Asia and the World", 25 years and beyond Speaker: Takehiko Satoh (President of Asia Oceania Geosciences Society) Professor of Institute of Space and Astronautical Science, JAXA, Japan
13:35 - 14:05	【 Keynote Lecture 】 Topic: Doubt where there should be no doubt Moderator: Chun-Chieh Wu, President of TCGU Speaker: Chen-Tung Arthur Chen (Academician, Academia Sinica, Taiwan) Outstanding Chair Professor of National Sun Yat-sen University, Taiwan
14:05 - 14:15	Group Photo
14:15 - 14:15	Closing of the Opening Ceremony
14:15 - 14:45	【 Annual Meeting of TCGU 2025 】
14:45 - 15:00	【 Terr. Atmos. Ocean. Sci. Journal (TAO) Award Ceremony 】 ● 2025 Young Scientist Award ● 2022 - 2024 Best Reviewer Award ● 2020 - 2024 Most Cited Article Award ● Excellence in Paper Citation Award
15:00 - 15:30	Refreshment Break

特邀貴賓 Invited Speakers

大會特邀專題演講 / Keynote Lecture

常識與知識並重：在不疑處有疑 / Doubt where there should be no doubt



陳鎮東教授

中央研究院院士

國立中山大學傑出講座教授

Prof. Chen-Tung Arthur Chen

Academician, Academia Sinica, Taiwan

Outstanding Chair Professor of National Sun Yat-sen University, Taiwan

大會特邀分享 / Invited Presentation

The Japan Geoscience Union: Building a Collaborative Future in Earth and Planetary Sciences



Prof. Simon Wallis

JpGU 主席

日本東京大學教授

President of Japan Geoscience Union

Professor of The University of Tokyo, Japan

Asia Oceania Geosciences Society "in Asia, for Asia and the World", 25 years and beyond



Prof. Takehiko Satoh

AOGS 主席

日本宇宙航空研究開發機構

President of Asia Oceania Geosciences Society

Professor of Institute of Space and Astronautical Science, JAXA, Japan

地球科學集刊 2025 年度得獎名單

Terrestrial, Atmospheric and Oceanic Sciences (TAO) 2025 Awards

2025 年大道新人獎 / 2025 Young Scientist Award



Prof. Jinichi Koue 公江仁一

Graduate School of Maritime Sciences, Kobe University, Japan

Article Title: Impact of riverine inputs on nutrient dynamics and water quality in enclosed water bodies

Prof. Xiaoning Su 苏小宁

Faculty of Geomatics, Lanzhou Jiaotong University, China

Article Title: Rapid estimation of source parameters for the 2022 Mw 6.6 Menyuan earthquake with combined high-rate GNSS and strong motion data in Northeastern Tibet



2022 - 2024 年優良論文審查人獎 / 2022 - 2024 Best Reviewer Award



【Geophysics】

Dr. Alexandre Canitano

Institute of Earth Sciences, Academia Sinica, Taiwan



【Geophysics】

Prof. Emmy T.Y. Chang

Institute of Oceanography, National Taiwan University, Taiwan

2022 - 2024 年優良論文審查人獎 / 2022 - 2024 Best Reviewer Award

【Geology】

Prof. Yu-Ting Kuo

Department of Earth and Environmental Sciences,
National Chung Cheng University, Taiwan



【Geology】

Prof. Chih-Heng Lu

Department of Earth Sciences, National Cheng Kung University,
Taiwan



【Atmospheric Science】

Prof. Pei-Hua Tan

Department of Applied History, National Chiayi University,
Taiwan



【Atmospheric Science】

Prof. Kao-Shen Chung

Department of Atmospheric Sciences,
National Central University, Taiwan



【Space Science】

Prof. Chia-Hung Chen

Department of Earth Sciences, National Cheng Kung University,
Taiwan



2022 - 2024 年優良論文審查人獎 / 2022 - 2024 Best Reviewer Award

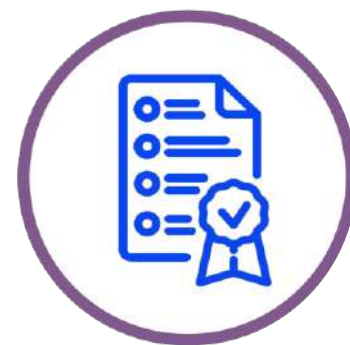
【Space Science】

Prof. Charles C. H. LinDepartment of Earth Sciences, National Cheng Kung University,
Taiwan

【Oceanic Science】

Prof. Feng-Hsun ChangDepartment of Bioenvironmental Systems Engineering,
National Taiwan University, Taiwan

【Hydrology】

Prof. Jie WangCollege of Earth and Environmental Sciences,
Lanzhou University, China

2020 - 2024 年被引用次數最多論文獎 / 2020 - 2024 Most Cited Article Award

**Prof. Chih-Tung Chen 陳致同**Department of Earth Sciences, National Central University,
Taiwan*Article Title: Ages of ophiolitic rocks along plate suture in Taiwan
orogen: Fate of the South China Sea from subduction to collision*

2020 - 2024 年被引用次數最多論文獎 / 2020 - 2024 Most Cited Article Award

Dr. Liang Wu 武亮

Institute of Atmospheric Physics, Chinese Academy of Sciences,
China

Article Title: Characteristics of tropical cyclone activity over the South China Sea: Local and nonlocal tropical cyclones



Prof. Chung-Hsiung Sui 隋中興

Department of Atmospheric Sciences,
National Taiwan University, Taiwan

Article Title: The South China Sea Two Islands Monsoon Experiment for studying convection and subseasonal to seasonal variability

Dr. Yi-Qiong Zhang 张艺琼

Research Institute of Petroleum Exploration & Development
(RIPED), CNPC, China

Article Title: The Yuli Belt in Taiwan: Part of the suture zone separating Eurasian and Philippine Sea plates



百次引用獎 / Excellence in Paper Citation Award



Dr. Yunck, TP

Jet Propulsion Laboratory, Pasadena, California, USA

Article Title: A history of GPS sounding

6月16日議程 June 16th Sessions

[OC] 2025 海洋科學年會暨國科會海洋學門成果發表

2025 Ocean Sciences Conference

2

6月16日議程

June 16th Sessions

2025年海洋科學年會暨國科會海洋學門成果發表會

議程表

6月16日(星期一)												6月17日(星期二)												6月18日(星期三)											
南港展覽館四樓																																			
報到：請先到四樓服務台領取會議用品 海洋學會會員簽到與繳交會費：海洋學會服務櫃台(401會議室外)																																			
【開幕式】海洋學會理事長/TOU召請人/海洋學門召集人致詞																																			
自然領域-臺灣海域作業化風能氣象-海洋研究與防災觀測網：廖森特博教授																																			
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[OC-P] 海洋物理

Physical Oceanography

主持人：曾于恒、曹俊和

15:30 - 15:45 **OC02-001**

2024 年強烈颱風山陀兒所引起的深層海洋熱浪
楊穎堅、邱永盛

15:45 - 16:00 **OC02-002**

台灣周遭海域內波受颱風影響之模擬與分析
李皓元、吳祚任

16:00 - 16:15 **OC02-003**

Tropical Cyclone (TC)-Ocean Interaction: Issues on TC Translation Speed and Size, Ocean Heat Content, and TC Trajectory
Il Lin, Shoude Guan, Ya-Ting Chang, Ping Liu, Yuhao Liu, Chun-Chi Lien

16:15 - 16:30 **OC02-004**

Understanding the driving mechanisms behind triple-dip La Niñas: insights from the prediction perspective
YU-HENG TSENG, Jo-Hsu Huang

16:30 - 16:45 **OC02-005**

Atmosphere-Dominated Drivers of the 2018 Summer Bloom in the North Pacific: Evidence for Limited Upwelling Influence
Chun Hoe Chow

16:45 - 17:00 **OC02-006**

Near-Surface Temperature Warming and Rain Layer Evolution Captured by EM-APEX Floats in the Western Pacific
Je-Yuan Hsu

17:00 - 17:15 **OC02-007**

臺灣周遭海域紊流觀測之回顧
張明輝、葉祐瑜、鄭宇昕、詹森、陳佳琳、楊穎堅

17:15 - 17:30 **OC02-008**

Turbulent Mixing in the Bay of Southeastern Taiwan
Yu-Hsin Cheng, Yi-Chen Cheng, Ming-Huei Chang, Jia-Yuan Lin, Yiing Jang Yang, Sen Jan, Chung-Ru Ho

[OC-B] 海洋生物/漁業**Biological Oceanography and Marine Biology**

主持人：謝泓諺、王佳惠

15:30 - 15:45 **OC03-001**Impact of climate variability on moonfish (*Mene maculata*) habitats and distribution in the waters off southwestern Taiwan**Ming-An Lee, Aratrika Ray**15:45 - 16:00 **OC03-002**

臺灣熱帶沿岸至深海底棲魚類群聚的分布

陳孟仙、賴建成16:00 - 16:15 **OC03-003**

台灣淺灘周邊海域湧升流對夏季仔稚魚群聚的影響

謝泓諺、許凌瑄16:15 - 16:30 **OC03-004**

Spatial patterns of essential fish habitats in the western Taiwan coast

Yu-Jia Lin, Chien-Chenh Lai, Hsu-Sen Chen, Tsu-Chun Chen, Kuo-Shu Chen, Norhafiz Hanafi, Pei-Jie Meng, Ying-Chin Fang, Chiee-Young Chen, Hsin-Ming Yen, Meng-Hsien Chen16:30 - 16:45 **OC03-005**

熱帶陸棚群落中頭足類的營養動態及其攝食生態角色

王佳惠、江俊億、蕭民煌、王珮玲、鍾明宗16:45 - 17:00 **OC03-006**

Horizontal distribution dynamics of three co-occurring Scombridae spp. across the Bay of Yilan and underlying hydrographic features

RueiGu Chen, TingChieh Huang**[OCGS-MG] 海洋地質/地球物理****Marine Geology & Geophysics**

主持人：賀詩琳

15:30 - 15:45 **OC04-001**

Distribution of Modern Foraminifera in the Water Column and Sediment Records: Results from the Taiwan Banks

Hui-Ling Lin, Tai-Chun Lin, Horng-Sheng Mii15:45 - 16:00 **OC04-002**

Seafloor Characteristics of the Pearl River Sediment Dispersal System on the Northern South China Sea Shelf

James T. Liu, Dominique Valdivia, Yu-Shih Lin, Rick J. Yang, Jay Lee

OC04

Room 505c

[OCGS-MG] 海洋地質/地球物理

Marine Geology & Geophysics

16:00 - 16:15 OC04-003

Changes in Intermediate Water and their Influence on CO₂ Anomalies During the Mid-Brunhes Event

Raúl Tapia

16:15 - 16:30 OC04-004

Distribution of clay minerals in Huatung Basin offshore eastern Taiwan: New evidence of volcanic material sources and transportation processes

Chih-Chieh Su, Jheng-Kuan Lin, Ta-Wei Hsu, Kenichiro Tani, Kyoko Okino, Yu-Huang Chen, Sheng-Ting Hsu, Chun-Ching Lee

16:30 - 16:45 OC04-005

Two types of modern sediment dispersal systems in the western Taiwan foreland basin: Sediment transfer from basin to basin

Cheng-Shing Chiang, Kan-Hsi Hsiung, Ho-Shing Yu

16:45 - 17:00 OC04-006

Stratification-Driven Particle Distribution and $\delta^{13}\text{C}$ -Based Tracing on a River-Dominated Shelf: Summer Observations from the Northern South China Sea

Jay Lee, James T. Liu, Yu-Shih Lin, Tung-Yuan Ho, Chen-Tung Arthur Chen, Chau-Ron Wu

OC05

Room 506

[OC-C] 海洋化學

Chemical Oceanography and Marine Chemistry

主持人：林卉婷、廖文軒

15:30 - 15:45 OC05-001

Kuroshio's West Wall

Chen-Tung Arthur Chen, Ting-Hsuan Huang, Xinyu Guo, Min Yang

15:45 - 16:00 OC05-002

利用團簇同位素探討深海岩層熱液水中甲烷的來源與反應過程

林卉婷、Mojhgan A. Haghnegahdar、Stephanie Carr、林悅婷、Olivia Nigro、Michael S Rappé、James Farquhar、Edward D. Young、林立虹、Doug Rumble

16:00 - 16:15 OC05-003

Transport of elevated dissolved Fe and Mn along the bottom of Kaoping Canyon to the Luzon Strait

Wen-Hsuan Liao, Bing-Yu Zeng, Hong-Li Lu, Yu-Te Alan Hsieh, Yi-Chia Hsin, Chen-Feng You

[OC-C] 海洋化學**Chemical Oceanography and Marine Chemistry**16:15 - 16:30 **OC05-004**

Transport Behaviors of Polycyclic Aromatic Hydrocarbons (PAHs) in the Land-Sea-Atmosphere System in Coastal Environment

Ming Tsuen Hsieh, Pei Chi Shih, Chon Lin Lee*

16:30 - 16:45 **OC05-005**

颱風、渦流與內波對南海北部生物地球化學作用之衝擊

謝學函、吳珣涵、**Vincent Abedneko**、洪慶章

16:45 - 17:00 **OC05-006**

國際「生物地球景觀計畫」(BioGeoSCAPES)的最新進展與臺灣學界的參與
何東垣

17:00 - 17:15 **OC05-007**

Metabolomic profiling and Superoxide Dismutase Capacity of *Fugacium kawagutii* (Symbiodiniaceae) in Response to Differential Iron Availability

Munkhtsetseg Tsednee, Tung-Yuan Ho

[GS] 2025 中華民國地球物理學會及中華民國地質學會年會暨學術研討會 2025 Annual Conference of Chinese Taipei Geophysical Society & Geological Society Located in Taipei

GS01

Room 402a

[GS-GP1] 地球物理、地球物理探勘與環境地球物理/人工智慧應用於地球物理

Geophysics, Geophysical Investigation and Environmental Geophysics / Artificial Intelligence Applications in Geophysics

主持人：曾佳漢

09:08 - 09:20 **GS01-001**

Local patches of negative core-mantle boundary heat flux in numerical simulations of thermo-chemical convection

Frédéric Deschamps, Joshua Guerrero

09:20 - 09:32 **GS01-002**

A Stochastic Dynamic Model of Earthquake Rupture: Exploring Self-Similarity and the Fisher-Shannon Characterization in Frictional Failure Processes

Tsung-Hsi Wu, Chien-Chih Chen, Hong-Jia Chen, Li-Wei Kuo, Luciano Telesca, Michele Lovallo

09:32 - 09:44 **GS01-003**

Sequential Inversion of Seismic and Gravity Data for Full-Crust Imaging in Taiwan

Yu-Tsung Lo, Horng-Yuan Yen

09:44 - 09:56 **GS01-004**

Waveform Polarity Determination via Deep Learning and Its Application in Focal Mechanism Inversion

Ting-Chung Huang, Chia-Yueh Yang, Yih-Min Wu

09:56 - 10:08 **GS01-005**

利用微地動分析探討台灣北部大屯火山區的淺層地質構造
朱柏宇、曾佳漢、饒瑞鈞、吳澄峰

[GS-M1] 多維尺度地物與地化之孕震過程觀測**Multidimensional Geophysical and Geochemical Observations for Earthquake Generation Process**

主持人：郭陳濤、傅慶州

10:20 - 10:32 **GS01-006**

3D Upper Crustal Shear-Wave Velocity Model of Eastern Taiwan from Ambient Noise Tomography with Dense Seismic Arrays

Kuo-Chen Hao, Ching-Yu Cheng, Dennis Brown, I-Chin Yen, Kai-Xun Chen, Wei-Fang Sun, Zhuo-Kang Guan, Shen-Hsiung Liang, Wen-Shan Chen, Chun-Wei Ho10:32 - 10:44 **GS01-007**

池上光纖地震儀訊號特性分析

甘禮有、郭陳濤、管卓康、曾智杰、古進上、傅慶州10:44 - 10:56 **GS01-008**

池上地震觀測網及池上即時微震監測系統

孫維芳、郭陳濤、傅慶州、潘勝彥、劉耀宏、古進上、管卓康10:56 - 11:08 **GS01-009**

花東縱谷南段池上斷層之震測影像與構造解析

管卓康、郭陳濤、傅慶州、牟鍾香、梁勝雄11:08 - 11:20 **GS01-010**Seismic Modulation of CO₂ Degassing in the Fault Zone: Insights from Two Major Earthquakes in Adjacent Fault Systems**Ching-Chou Fu, Kuo-Hang Chen, Kuo-Wei Wu, Chung-Hsiang Mu, Pei-Ling Wang, Kuo-Chen Hao, Li-Hung Lin, Vivek Walia**11:20 - 11:32 **GS01-011**

Near-Surface Geological Structures of the Southern Longitudinal Valley Fault in Taiwan

Shen-Hsiung Liang, Cian-Siang You, Cheng-En Hsieh, Yu-Siang Tung, Yen-Chiu Liu, Kuo-Chen Hao11:32 - 11:44 **GS01-012**區域性地電訊號與地震活動之關聯研究：以花蓮與嘉義為例
陳宏嘉11:44 - 11:56 **GS01-013**

DAS 與寬頻地震儀資料整合於即時觀測系統之應用

古進上、傅慶州、郭陳濤、牟鍾香、孫維芳、管卓康、甘禮有

[GS-S5] 0403 花蓮地震的研究發展**Research Progress on the Hualien Earthquake on 3rd Apr. 2024**

主持人：陳卉瑄、許雅儒

15:30 - 15:42 **GS01-014**

A Comparative Analysis of the (ML 6.8; Mw 7.3) November 14, 1986, and (ML 7.1; Mw 7.4) April 2, 2024, Hualien, Taiwan earthquakes: Insights into Seismic Characteristics and Regional Impact

Kuo-Fong Ma, Shiann-Jong Lee, JoLan Liao

15:42 - 15:54 **GS01-015**

Aseismic slip and seismic swarms leading up to the 2024 M7.3 Hualien earthquake

Kate Huihsuan Chen, Wei Peng, Ya-Ju Hsu, Yan-Hong Chen

15:54 - 16:06 **GS01-016**

Unraveling fault slip dynamics in northern Longitudinal Valley: insights from coseismic ruptures, aseismic slip, and seismicity

YA-JU HSU, Hsin Tung, Horng-Yue Chen, Yu Wang, Yan-Hong Chen, Yunung Nina Lin, Wei Peng, Huihsuan Kate Chen, Huang Hsin-Hua

16:06 - 16:18 **GS01-017**

Deciphering the Multi-Fault System of the 2024 Mw 7.4 Hualien, Taiwan Earthquake Using Seismic and Geodetic Datasets

Claire Fagan, Mong-Han Huang, Hsin-Hua Huang

16:18 - 16:30 **GS01-018**

Tracing the Storm and the Shake: Can Sediments Tell Earthquakes from Typhoons?

Yu-Shih Lin, Yu-Ting Hung, Jyh-Jaan Steven Huang, Ludvig Löwemark, Pai-Sen Yu, Bing-Rong Jiang, Huan-Jie Shao, Ho-Han Hsu, Liwen Chen, Yuan-Pin Chang

16:30 - 16:42 **GS01-019**

Coastal uplifts and tsunami run-up associated with the 2024 Mw 7.4 Hualien earthquake

Yu Wang, Sheng-Han Wu, Yu-Nung Nina Lin, Hsin Tung, Siang Duan, Zong-Ka Huang

16:42 - 16:54 **GS01-020**

The Improvement of Tsunami Source Model for the 2024 Mw 7.4 Hualien Earthquake: Insight from USGS Moment Tensor, GCMT Moment Tensor, and USGS Finite Fault

Achmad Prasetya Budi, Tso Ren Wu

[GS-M2] 慢至快地震的震源物理研究**Source Physics of Slow-to-Fast Earthquake**

主持人：郭力維、柯俊宇

09:08 - 09:20 **GS02-001**

Generating Slow to Fast Earthquakes in the Lab: An Update to Fault Zone Geology Lab

Li-Wei Kuo, Jia-Jyun Dong, Szu-Ting Kuo, Chien-Cheng Hung, Thi Trinh Nguyen, Fang-Yu Tsai, Ting-Yen Tai, Yun Ya Ling, Meng-Chin Lee, Yu-Qing Huang, Wan-Hong Hsu, Wen-Jie Wu09:20 - 09:32 **GS02-002**

Current progress of the gouge triaxial direct-shear experiments in Taiwan

Ting-Yen Tai, Zhan-You Kuo, Szu-Ting Kuo, Li-Wei Kuo, Maciej Trzeciak, Hiroki Sone09:32 - 09:44 **GS02-003**

An Experimental Study on Fracture Slip and Healing Processes in Geothermal Environments

Fang-Yu Tsai, Li-Wei Kuo, Szu-Ting Kuo09:44 - 09:56 **GS02-004**

斷層帶粉碎岩石的發現與隱示

吳文傑、連珀穎、黃騰慧、郭力維09:56 - 10:08 **GS02-005**

The Yuli-belt-rock-bearing Milun fault and its implication for local structural evolution

Pei-Chi Chiang, Li-Wei Kuo, Kuo-Fong Ma, Yun Ya Ling

主持人：柯俊宇、郭思廷

10:20 - 10:32 **GS02-006**

Fluid pressurization in overconsolidated sediments: A seismic indicator at the shallow subduction front

Szu-Ting Kuo, Thi Trinh Nguyen, Jianye Chen, Wen-Jie Wu, Kohtaro Ujiie, Li-Wei Kuo10:32 - 10:44 **GS02-007**

Effect of clay content on frictional behavior of simulated gouges at seismic rates: Binary and ternary mixtures of quartz, illite, and kaolinite

Thi Trinh Nguyen, Li-Wei Kuo, Szu-Ting Kuo10:44 - 10:56 **GS02-008**

The Role of Liquid and Vapor Water on the Fault Frictional properties in the Krafla Geothermal Field (Iceland)

Wei-Hsin Wu, Wei Feng, Rodrigo Gomila, Telemaco Tesei, Anette K. Mortensen, Giulio Di Toro

[GS-M2] 慢至快地震的震源物理研究**Source Physics of Slow-to-Fast Earthquake**10:56 - 11:08 **GS02-009**

Principal Slip Zone Characteristics of the Milun Fault from Microstructural and Mineralogical Observations

Yun Ya Ling, Li-Wei Kuo, Kuo-Fong Ma11:08 - 11:20 **GS02-010**

Frictional Behavior of the Active Milun Fault Zone During Experimental Seismic Slip

Meng-Chin Lee, Li-Wei Kuo, Thi Trinh Nguyen, Yun Ya Ling, Kuo-Fong Ma11:20 - 11:32 **GS02-011**

Mechanical properties of the formation rocks at the enhanced geothermal system in Yuanshan, northeastern Taiwan

Yu-Qing Huang, Li-Wei Kuo, Szu-Ting Kuo, Fang-Yu Tsai, Ting-Yen Tai, Zhan-You Kuo

主持人：郭思廷、洪建程

15:18 - 15:30 **GS02-012**

Broadband Calibration of Ultrasonic Transducers Using Generalized Ray Theory, Finite Element Method, and Laser Doppler Vibrometry

Ting-Wei Liu, Chang-Wei Zeng, Chun-Yu Ke15:30 - 15:42 **GS02-013**

Earthquake Rupture Initiation Location and Fault Overstress Geometry Shape the Evolution of Source Time Functions

Cheng-Yi Wang, Chun-Yu Ke15:42 - 15:54 **GS02-014**

Evaluating Variability in Seismologically-Estimated Stress Drop in Earthquake Ruptures with Negative Overstress Boundaries

You-Shi Tsai, Chun-Yu Ke15:54 - 16:06 **GS02-015**

Exploring the Impact of Subducted Sediment Properties, Shear Heating, and Dehydration on Seismicity in Subduction Zones Using MEFISTO

Chia-Hsun Lin, Jiaqi Fang, Wei Mao, Ema Armstrong, Zechao Zhuo, John N. Hooker, Donald Fisher, Tan Eh, Greg Hirth, Magali I. Billen16:06 - 16:18 **GS02-016**

Inferring Earthquake Stress Drops with Passive Acoustics in Laboratory Experiments Using Machine Learning

Gauss Chang, Chris Marone, Chun-Yu Ke

[GS-M2] 慢至快地震的震源物理研究**Source Physics of Slow-to-Fast Earthquake**16:18 - 16:30 **GS02-017**

Seismicity Migration along the Deformation Front Offshore Southwest Taiwan

Wen-Nan Wu16:30 - 16:42 **GS02-018**

Stress Test: Earthquake Cycles Under Different Loading Conditions

Yifan Yin, Camilla Cattania16:42 - 16:54 **GS02-019**

Stress transfer cycle from slow to fast earthquakes across the southernmost Ryukyu subduction thrust during deep slow slip

Sean Kuanhsiang Chen**[GS-GT] 地球科學技術****Geoscience Technology**

主持人：林慶仁

09:20 - 09:32 **GS03-001**

SEISYNC：基於人工智慧驅動的模組化地震監測系統同步地震預警與地震目錄製作

廖勿渝、Florent Aden-Antoniów、李恩瑞09:32 - 09:44 **GS03-002**

Utilizing pig urine as a sustainable urea substitute in Microbial Induced Calcite Precipitation (MICP) for soil stabilization

Md. Taharia, Gobinda Dey, Raju Kumar Sharma, Chin-Wen Wang, Shafiq Ali, Pin-Yun Lin, Chien-Yen Chen*09:44 - 09:56 **GS03-003**

從光譜到熱史：紅外光譜技術在地質溫度重建中的新應用

陳彥宇、杲紹伊、張英如、謝文斌09:56 - 10:08 **GS03-004**

新型 Yardbird-BB OBS 感震器平衡機構的效能評估

林慶仁、張家溥、陳柏棋

GS03

Room 402c

[GS-S4] 觀測地震學 Observational Seismology

主持人：梁文宗

10:20 - 10:32 **GS03-005**

High-Resolution Attenuation Tomography with SALUTE: Unraveling Fault Systems and Forearc Deformation in the Southern Taiwan Collision Zone

Yu-Pin Lin, Shu-Huei Hung, Scientific Team of Southern Array for the Lithosphere and Uplift of Taiwan Experiment10:32 - 10:44 **GS03-006**

New Web Services of Broadband Array in Taiwan for Seismology (BATS)

Wen-Tzong Liang, Wen-Hui Lee, Po-Yu Chen, Hao-De Chiu, Chin-Shang Ku10:44 - 10:56 **GS03-007**以卡爾曼濾波器即時修正地震動預估：導入破裂方向性於地震預警系統
黃奕昇、黃信樺10:56 - 11:08 **GS03-008**陣列分析近震源地動紀錄探討 2023 年 9 月屏東化學品爆炸事件
黃柏壽、何美儀、古進上、林欽仁

GS03

Room 402c

[GS-V5] 台日聯合議程—地球化學與地質研究的新進展 Taiwan-Japan Joint Session-Frontiers in Geochemistry and Geology

主持人：王國龍

15:30 - 15:50 **GS03-009**

High-precision measurements of the triple oxygen isotope compositions of phosphate in bioapatite for reconstructing body temperature of extinct marine vertebrates

Takashi Sambuichi, Urumu Tsunogai, Fumiko Nakagawa15:50 - 16:10 **GS03-010**

Lithological and geochemical evidence for the linkages between OAE1a and Ontong Java volcanic events at Deep Sea Drilling Program Site167

Hironao Matsumoto, Takeshi Hanyu, Takashi Miyazaki, Qing Chang, Bogdan S. Vaglarov, Maria Luisa G. Tejada, Junichiro Kuroda, Katsuhiko Suzuki16:10 - 16:30 **GS03-011**Recycling ages of oceanic crusts: implications from FOZO and HIMU type OIBs
Shimoda Gen, Kogiso Tetsu16:30 - 16:45 **GS03-012**

Preliminary geochemical results from orogenic peridotites from Eastern Alaska and Northern British Columbia

John Gregory Shellnutt, Kuo-Lung Wang

[GS-V5] 台日聯合議程—地球化學與地質研究的新進展
Taiwan-Japan Joint Session-Frontiers in Geochemistry and Geology

16:45 - 17:00 **GS03-013**

Mantle perspective on the boundary between the Eurasian continent and the Philippine Sea plates in Taiwan

Kuo-Lung Wang, Duyen Tri Tran, Kourim Fatna, Yoshiyuki Iizu, Hao-Yang Lee

[GS-ST3] 2025 年臺灣第四紀暨東南亞第四紀研討會議 - 人類世環境與氣候變遷
15th TAI-QUA and 1st SEA-QUA - Anthropocene Environment and Climate Changes

主持人：沈川洲、羅立

08:44 - 08:56 **GS04-001**

Rapid Assessment of Elemental Radial Translocation and Mobility in Tree Rings Using iTrax Core Scanner

Hsin-Lin Wei, Chuan-Chou Shen, Ludvig Löwemark, Chien-Yi Liao, Shu-Li Chen, Chun-Kuang Hsieh

08:56 - 09:20 **GS04-002**

Towards a Low-Pollution Future: Lessons from Leaded Gasoline for the Global Energy Transition

Mengli Chen, Dominik Weiss, Qian Na, Ke Lin, Jani Tanzil, Edward Boyle, Nathalie Goodkin

09:20 - 09:32 **GS04-003**

氣候變化與病蟲害：清代蝗災的氣候驅動因素分析
王證豪、林冠慧、曾琬鈴、林正偉、黃信誠、王寶貫

09:32 - 09:44 **GS04-004**

A multi-proxy lacustrine record of late Holocene climatic variability from north India

Mohd Amir, Debajyoti Paul, Yuan-Pin Chang

09:44 - 10:08 **GS04-005**

Reconstructing Long-Term Tropical Cyclone Activity from Tree Rings: Insights and Interdisciplinary Perspectives

Altman J.

[GS-ST4] 2025 年臺灣第四紀暨東南亞第四紀研討會議 - 陸相記錄

15th TAI-QUA and 1st SEA-QUA - Terrestrial Records

主持人：沈川洲、羅立

- | | |
|---------------|--|
| 10:20 - 10:32 | <p>GS04-006</p> <p>A New Palynological Record of the Last Millennium from a Sediment Core in Lake Marmara, Western Türkiye</p> <p>Mesut Kolbükten, Demet Biltekin, Tom Veldkamp, Dursun Acar</p> |
| 10:32 - 10:56 | <p>GS04-007</p> <p>Expanding the Paleoclimate Toolbox: 3-OH Fatty Acids as a Palaeothermometry Proxy</p> <p>Yamoah Kweku Afrifa, Patthapong Chaiseanwang, Changhai Hou, Matthew Allison, Alice Hardman, Michael Griffiths, Sarah Greene, James Bendle</p> |
| 10:56 - 11:08 | <p>GS04-008</p> <p>Late Holocene Decoupling of East Asian and Indian Summer Monsoons Linked to Tropical Ocean-Atmosphere Forcing</p> <p>Phanindra Reddy Annapureddy, Naveen Gandhi, Chuan-Chou SHEN, Madhusudan G Yadava, Chun-Yuan Huang</p> |
| 11:08 - 11:20 | <p>GS04-009</p> <p>Linking lacustrine, dendrochronological, historical, and instrumental records: Pitfalls and potentials</p> <p>Ludvig Löwemark</p> |
| 11:20 - 11:32 | <p>GS04-010</p> <p>Monsoon systems: variability, processes, predictability, change and extremes</p> <p>Wan-Ling Tseng, Elaine Kuanhui Lin, Hsin-Cheng Huang, Chao-Chen Lai, Jen-Ing Lee, Ho-Jiunn Lin, Cheng-Wei Lin, Huang-Hsiung Hsu, Pao K. Wang</p> |
| 11:32 - 11:44 | <p>GS04-011</p> <p>Stalagmite-based Paleo-hydroclimate Variability of the Eastern Mediterranean over the past 46 ka</p> <p>Mesut Kolbükten, Chuan-Chou Shen, Chun-Yuan Huang, Hsun-Ming Hu, Mehmet Oruç Baykara, Ezgi Ünal-İmer, Bülent Arıkan, Phanindra Reddy, Yueh-Yang Lee</p> |
| 11:44 - 11:56 | <p>GS04-012</p> <p>Reconstruction of northern Taiwan hydroclimate conditions over last 13.3 cal kyr BP using multiproxy analysis in Tsui-Tsui Valley sediment cores</p> <p>Abdur Rahman, Liang-Chi Wang</p> |
| 11:56 - 12:20 | <p>GS04-013</p> <p>Geochemistry of paleo-Yamuna channel sediments from NW India: Implications for variations in provenance, paleoclimate, and paleovegetation patterns in the late Quaternary</p> <p>Debajyoti Paul, Mohd Amir, Yuan-Pin Chang</p> |

[GS-ST4] 2025 年臺灣第四紀暨東南亞第四紀研討會議 - 陸相記錄
15th TAI-QUA and 1st SEA-QUA - Terrestrial Records

12:20 - 12:32 **GS04-014**

The preliminary report of diatom assemblages from a 50 m core sample at Paitan Lake, Luzon Island, Philippines

Kaoru Kashima, Liang-Chi Wang

12:32 - 12:56 **GS04-015**

Hydroclimate Variability in the Mainland Southeast Asia during the Last Glacial Maximum

Akkaneewut Jirapinyakul, Dissaya Sukodom, Chawalit Charoenpong, Penja Sompongchaikul, Paramitra Punwong, Kweku Afrifa Yamoah

[GS-ST5] 2025 年臺灣第四紀暨東南亞第四紀研討會議 - 海相記錄
15th TAI-QUA and 1st SEA-QUA - Marine Records

主持人：沈川洲、羅立

15:18 - 15:30 **GS04-016**

A 100-year record of nearshore fish ecological changes in the Taiwan Strait

Zi-Qi Chew, Chih-Chieh Su, Sheng-Ting Hsu, Chien-Hsiang Lin

15:30 - 15:54 **GS04-017**

Changes in the Tsushima Warm Current Systems in the Japan Sea Throughout the Holocene

Kenji M. Matsuzaki, Takuya Itaki, Takuya Sagawa, Yoshiaki Suzuki, Tonohisa Irino, Ken Ikehara

15:54 - 16:06 **GS04-018**

How reactive is permafrost after thawing? Changes in permafrost organic matter reactivities across the land-to-shelf transect in the Laptev Sea, Arctic

Tsai-Wen Lin, Gernot Nehrke, Hendrik Grotheer, Tommaso Tesi, Gesine Mollenhauer

16:06 - 16:18 **GS04-019**

Kaoping slope marine carbon sink variations during the past 150 kyrs

Chuang Chih-kai, Lin Andrew Tien-shun, Lo Li

16:18 - 16:30 **GS04-020**

Surface condition of the middle Pliocene warm period in the southwestern equatorial Pacific Ocean

Li Lo, Tien-Yu Wu, Chieh-Yu Huang, Ying-Ying Ho, Chuan-Chou Shen, Horng-Sheng Mii, Ludvig Löwemark

16:30 - 16:54 **GS04-021**

Upper ocean stratification changes in the western tropical Pacific for the last 4 Myr

Takuya Sagawa, Yoshimi Kubota, Yair Rosenthal

[OCGS-MG] 海洋地質與地球物理**Marine Geology and Geophysics**

主持人：張頌平、王天楷

08:32 - 08:44 **GS05-001**

Geometrical & hydrological dependence of seamount subduction on slip tendency: Does it promote or suppress interplate locking?

Masataka Kinoshita, Rie Nakata, Yoshitaka Hashimoto, Yohei Hamada, Luisa Roeckel, Hung-Yu Wu08:44 - 08:56 **GS05-002**

Deep-Sea Turbidites of the Huatung Basin and SW Ryukyu Trench

Kan-Hsi Hsiung, Yu-Chun Chang, Yuhji Yamamoto, Toshiya Kanamatsu, Kenichiro Tani08:56 - 09:08 **GS05-003**

Distinct Characteristics of Nepheloid Layers Triggered by the 2024 Hualien Earthquake (Mw 7.4) and Super Typhoon Kong-rey

Yu-Shih Lin, Shu-Ying Chuang, Ho-Han Hsu, Tsui-Yu Emmy Chang, Chih-Chieh Su, Tzu-Ting Chen, Yu Wang, Yuan-Pin Chang09:08 - 09:20 **GS05-004**

Widespread Thick Turbidites in the Kuril Trench: Possible Evidence of a Mw~9 Earthquake in the 13th Century?

Yu-Chun Chang, Kan-Hsi Hsiung, Kanamatsu Toshiya, Ryo Nakanishi, Yuhji Yamamoto, Go-Ichiro Uramoto09:20 - 09:32 **GS05-005**

High-precision dating using palaeomagnetic secular variation Its applications and limitations for deep-sea sediment geochronology: A case study from the Japan Trench

Toshiya Kanamatsu, Yuhji Yamamoto, Kan-Hsi Hsiung, Yu-Chun Chang09:32 - 09:44 **GS05-006**

內波與山崩動力耦合作用下霞狀層的形成

張哲瀚、吳祚任、葉宸豪09:44 - 09:56 **GS05-007**

臺灣西南部屏東林邊河口下陷區外海之海底下淺層構造地震影像研究：近代構造活動與流體遷移現象之探討

何雪盈 Sutieng HO、Andreas Wetzel、戚務正 Wu-Cheng Chi、Wege Sebastian09:56 - 10:08 **GS05-008**

以海床地電阻影像探尋掩埋的水下文資目標物

陳麗雯、劉興昌、林俊宏10:20 - 10:32 **GS05-009**

臺灣海峽北部高解析震測沉積構造和斷層構造研究

蘇永祥、王天楷

[OCGS-MG] 海洋地質與地球物理**Marine Geology and Geophysics**

主持人：張頌平、王天楷

10:32 - 10:44 **GS05-010**

台灣海峽海域玄武岩層盆底尺度之空間分布

張頌平、林佩蓁、許鶴瀚、王明、陳憶萍、林育璿、陳松春、林依蓉、蘇品如

10:44 - 10:56 **GS05-011**

運用多頻道反射震測資料分析花蓮外海的米崙斷層構造

阮琮晏、王天楷、戚務正、黃薇、詹御榮、莫山

10:56 - 11:08 **GS05-012**

震測反演苗栗近岸-離岸的淺層地殼

詹御榮、王天楷、戚務正

11:08 - 11:20 **GS05-013**

沉積物懸浮行為之數值研究：濃度梯度法與不連續雙黏性流模型之整合與應用

葉宸豪、吳祚任、張哲瀚

11:20 - 11:32 **GS05-014**

臺灣周圍海域離岸風場海域洋流及地質環境分析-不連續雙黏性流模式於離岸風機冲刷模擬之應用探討

吳祚任、黃逸軒、朱家傑、黃文正、陳崇賢、羅仁男、黃天興、陳冠宇、李奕亨

11:32 - 11:44 **GS05-015**

臺灣周圍海域離岸風場海域洋流及地質環境分析-離岸風電風力機對於水文影響分析

朱家傑、吳祚任、黃文正、陳崇賢、羅仁男、黃天興、陳冠宇、李奕亨

11:44 - 11:56 **GS05-016**

臺灣離岸風電地質與環境感知系統發展成果與未來可應用領域研究

陳家生、陳松春、蘇品如、林依蓉、潘怡光、陳玉鶯、吳尚青

[GS-B] 生物地球科學**Biogeosciences**

主持人：涂子萱

15:18 - 15:30 **GS05-017**

Comparing Metabolic Rates Between Seagrass Monocultures and Coral-Seagrass Systems: A Winter Assessment from Dongsha Island

Tzu-Hsuan Tu, En-Ju Lin, Hsiang-Lun Huang

[GS-B] 生物地球科學

Biogeosciences

15:30 - 15:42 **GS05-018**

Relative importance of nanoflagellate grazing and viral lysis for bacterial and *Synechococcus* spp. mortality in a high-latitude fjord (Adventfjorden, Svalbard) during the summer

Madeline Olivia, Ruei-Feng Shiu, Patrichka Wei-Yi Chen, Chia-Mei Chang, Clara Natalie Annabel, Chuen-Fa Ni, Hwa Chien, Slawomir Jack Giletycz, An-Yi Tsai

15:42 - 15:54 **GS05-019**

Enhanced Atmospheric Nitrogen and Phosphorus Deposition Alleviates Phosphate Limitation in the Western North Pacific

Vicente Gadngay Abedneko

15:54 - 16:06 **GS05-020**

高屏溪流域有機碳來源及微生物分解作用的時空變化

盧珮軒、塗子萱、林恩如、林佑珊

16:06 - 16:18 **GS05-021**

Tracing GDGT and n-Alkane distribution patterns in the Central Arctic Ocean During the Last Glacial Cycle

Akanksha Singh, Sze Ling Ho, Ludvig Löwemark

16:18 - 16:30 **GS05-022**

Examination of evolutionary development and ontogenic variation in the foraminifera *Globigerinoidesella fistulosa* during the Plio-Pleistocene transition interval using 3D morphometric analysis

Robert Swisher, Li Lo, Yen-Fang Song, Gung-Chian Yin

16:30 - 16:42 **GS05-023**

伯格曼規則與艾倫規則於竊蛋龍類恐龍的適用性 The validity of Bergmann's rule and Allen's rule in Oviraptorosauria

朱立安、周冠宇、劉英明、楊子睿

16:42 - 16:54 **GS05-024**

混魚龍屬 (*Ichthyosauria: Mixosauridae*) 的發聲方式與生長模式 Acoustic communication in, and ontogenetic stage of *Mixosaurus* sp. (*Ichthyosauria: Mixosauridae*)

張郁忻、廖俊棋、劉英明、楊子睿

[EE] 永續發展觀點下的地球科學教育與傳播

Earth Science Education and Communication from the Perspective of Sustainable Development

<i>EE01</i>		<i>Room 404</i>
09:00 - 09:30	報到	
09:30 - 09:40	開幕式	
09:40 - 10:40	「科學傳播」專題演講 I	
	題 目：論政策相關地球科學的推理與價值透明性 On Transparency of Reasoning and Values in Policy-Relevant Earth Sciences	
	主持人：許瑛珺教授	
	演講者：游立安博士 中央研究院歐美研究所	
10:40 - 10:50	休息	
10:50 - 11:10	EE01-001 氣候變遷的分眾傳播：以國家氣候變遷科學報告 2024 為例 陳又瑄、劉子明、黃熾綦、陳永明	
11:10 - 11:30	EE01-002 大學生對淨零排碳之認知、態度與行為研究 李育諭、顏孟芬、王宏仁、巴清雄、王梅香、許家豪	
11:30 - 11:50	EE01-003 科普寫作架構的發展與實施：基於課堂的研究 潘昌志、葉庭光	
11:50 - 13:00	午餐	
13:00 - 16:00	Ocean Explorers Hub: 數位海洋教育媒材 (展示與互動) 張正杰教授 國立臺灣海洋大學師資培育中心	
16:00 - 17:00	海報報告 (5 樓 504 室)	

[AS-C] 全國大氣科學學術研討會 National Atmospheric Sciences Conference

廖國男先生學術講座

Room 501 & 502

Kuo-Nan Liou Memorial Lecture

11:00 - 12:00 **Topic: Response of Terrestrial Aridity to Global Warming**

Speaker: Dr. Qiang Fu

Department of Atmospheric and Climate Science, University of Washington

Abstract

Extreme dryness across the planet ravages crops, cripples water supply and hydropower generation, and fuels wildfires. Is terrestrial climate becoming drier in a warming world? Is the extreme dryness across the planet becoming a new normal? The dryness of terrestrial climate can be measured in terms of an aridity index that is the ratio of annual precipitation (i.e., supply) to potential evapotranspiration (i.e., demand). The United Nations Environment Programme defines drylands as the terrestrial areas with an aridity index of less than 0.65, which are further classified into hyper-arid, arid, semiarid, and dry sub-humid lands. In this talk I will present the response of terrestrial aridity and dryland areas to global warming in the framework of the aridity index. A mechanism that “warmer is more arid” will be discussed by comparing changes in evaporation over ocean with changes in potential evapotranspiration over land. The implications to extreme dryness (i.e., drought) will also be discussed.

AS-C01

Room 500

[AS-AW] 進擊暖化下的天氣與氣候

Weather and Climate in Advancing Warming

主持人：陳昭安

08:30 - 08:50 **AS-C01-014**

Disentangling GHG and Aerosol Forcings in a Warming Climate

Yuan Wang

08:50 - 09:05 **AS-C01-001**

Enhanced North Tropical Atlantic-ENSO Relationship under Global Warming

Yi-Kai Wu

09:05 - 09:20 **AS-C01-002**

Modulation of Tropical Convection-Circulation Interaction by Aerosol Indirect Effects in Convective Self-Aggregation Simulations of a Gray Zone Global Model

Chun-Yian Su, Chien-Ming Wu, Wei-Ting Chen, John Peters

[AS-AW] 進擊暖化下的天氣與氣候**Weather and Climate in Advancing Warming**09:20 - 09:35 **AS-C01-003**

Impacts of Regional Urbanization and Global Warming on Fog Patterns in Taiwan's Mountainous Regions

Yueh-Tzu Hung, Yi-Ying Chen, Chao-Tzuen Cheng, I-Chun Tsai09:35 - 09:50 **AS-C01-004**

From the Pacific to the Indian Ocean: ENSO Effects on Sri Lanka's Spring Rainfall

Suranjith Bandara Koralegedara, Wan-Ru Huang, Po-Han Tung, Tzu-Yang Chiang09:50 - 10:05 **AS-C01-005**

The Short-term Climate Impacts of the Recent North Pacific SST Regime Shift

Hao-Jhe Hong, Huang-Hsiung Hsu, Wei-Liang Lee, Li-Peng Hsiao10:05 - 10:20 **AS-C01-006**

The non-linear responses of Maritime continent deforestation on local extreme heat events

Ting Hui Lee, Min Hui Lo, Chun Hung Li**[AS-DL] 深度學習與大氣研究****Deep Learning in Atmospheric Research**

主持人：魏志強、劉千義

15:15 - 15:30 **AS-C01-007**

衛星微波觀測與深度學習技術探討颱風降水之研究

魏志強、許雅禎、林佳瑜15:30 - 15:45 **AS-C01-008**

Capturing the Essence of Weather Patterns: Latent Feature in Autoencoder Models

Chiao-Wei Chang15:45 - 16:00 **AS-C01-009**

利用神經網路模型提升獵風者衛星於高風速條件下之反演能力

黃贊翰、蔡世樵、陳致穎16:00 - 16:15 **AS-C01-010**

應用大氣深度學習模式對臺灣春季鋒面特性之個案模擬研究

曾奕銓、侯昭平16:15 - 16:30 **AS-C01-011**

Machine Learning Approaches for Characterizing the Raindrop Size Distributions in Western Pacific Tropical Cyclones

Janapati Jayalakshmi, Seela Kumar Balaji, Pay-Liam Lin, Chuan-Chi Tu

AS-C01

Room 500

[AS-DL] 深度學習與大氣研究**Deep Learning in Atmospheric Research**16:30 - 16:45 **AS-C01-012**

地球同步衛星之日夜雲微物理參數與性質之人工智慧方法反演研究
鍾旭哲、劉千義、林孟岳、邱麒豪、劉宜真

16:45 - 17:00 **AS-C01-013**

利用機器學習建立彩虹影像辨識模型之初步研究
許宸瑋、周昆炫

AS-C02

Room 501

[AS-DL] 深度學習與大氣研究**Deep Learning in Atmospheric Research**

主持人：遲正祥、陳昀靖

08:30 - 08:45 **AS-C02-001**

深度學習 V-Transformer 模型於颱風風速模擬之研究
鄭茹月、魏志強

08:45 - 09:00 **AS-C02-002**

Characterizing Rapid Intensification in Tropical Cyclones: A Multi-method
Cheng-Hsiang Chih, Chun-Chieh Wu, Yi-Hsuan Huang

09:00 - 09:15 **AS-C02-003**

Application of Machine Learning Techniques in Satellite Precipitation
Detection Using Himawari Spectral and Cloud Data
Meng Yue Lin, Chian-Yi Liu, Yi-Chiang Yu, Yu-Chun Chen

09:15 - 09:30 **AS-C02-004**

應用 MLWP 於台灣區域第三週降雨預報之可行性評估
陳昀靖、羅資婷、李清騰

09:30 - 09:45 **AS-C02-005**

Generalizing the Subseasonal Forecast of the Western North Pacific
Subtropical High via Reservoir Computing
Yun-Hsuan Ho, Kai-Chih Tseng

09:45 - 10:00 **AS-C02-006**

A Physically Interpretable AI Framework (AI-TaiwanVVM) for Predicting Future
Pollution Weather in Taiwan
Min-Ken Hsieh, Chien-Ming Wu

10:00 - 10:15 **AS-C02-007**

A Deep Learning Approach to Downscale and Fuse Ocean Surface Winds for
Tropical Cyclones
Hui Su, Enze Zhang, P.W. Chan, Wensheng Zhou

[AS-DL] 深度學習與大氣研究**Deep Learning in Atmospheric Research**

10:15 - 10:30

AS-C02-008

人工智慧降尺度技術在氣候應用上的發展策略

李清騰、陳昀靖、王志嘉、林昀靜、洪景山、張惠玲、羅資婷、曾琬鈴、潘琦

[AS-AW] 進擊暖化下的天氣與氣候**Weather and Climate in Advancing Warming**

主持人：張瓊文

15:30 - 15:50

AS-C02-009

The Seasonal Cycles of Tropical Sea Surface Temperature from Earth's Axial Tilt and Orbital Eccentricity

John CH Chiang, Leah YL Kong

15:50 - 16:05

AS-C02-010

A Process-Oriented GMS Plane for Madden-Julian Oscillation Analysis

Jia-Yuh Yu, Dong-Pha Dang

16:05 - 16:20

AS-C02-011

The Impact of the Madden-Julian Oscillation on Spring and Autumn Afternoon Diurnal Convection in Sri Lanka

Wan-Ru Huang, Suranjith Bandara Koralegedara, Tzu-Yang Chiang, Cheng-An Lee, Po-Han Tung, Yu-Tang Chien, Liping Deng

16:20 - 16:35

AS-C02-012

Impacts of Regional SST warming on Summer Circulation Changes in the Western North Pacific under global warming

Chao-An Chen, Huang-Hsiung Hsu, Hsin-Chien Liang, Yu-Len Chen, Ping-Gin Chiu, Chia-Ying Tu

16:35 - 16:50

AS-C02-013

全球暖化與臺灣春雨之長期減少變化

李維德、陳昭銘、李逸環、曾若玄、洪信昌

16:50 - 17:05

AS-C02-014

Distinct Effect of the Warming Trend on Extreme Mei-Yu Rainfall in June and July over East Asia: Perspectives from Observation and Simulation

Chi-Cherng Hong, An-Yi Huang

17:05 - 17:20

AS-C02-015

Impacts of Maritime Continent Deforestation on the Madden-Julian Oscillation

Chiung-wen June Chang, Min-hui Lo, Wan-ling Tseng, Yu-Cian Tsai, Jia-yuh Yu

[AS-AC] 大氣化學與空氣品質 Atmospheric Chemistry and Air Quality

主持人：陳怡均、張慶祖

- | | |
|---------------|---|
| 08:30 - 08:45 | AS-C03-001
Characterization of atmospheric aerosols and fog droplets during fog events at urban environment of Taiwan.
Hing Cho Cheung |
| 08:45 - 09:00 | AS-C03-002
Surface NO ₂ estimation from geostationary satellite observations using machine learning
Yi-Chun Chen, Chen-Yu Yen |
| 09:00 - 09:15 | AS-C03-003
風力發電對臺灣 PM _{2.5} 空氣品質的雙重影響：結合排放減量與氣象效應模擬研究
謝佩蓉、蔡宜君、林正偉、周宗徹、杜佳穎、鄭兆尊、許晃雄 |
| 09:15 - 09:30 | AS-C03-004
應用視覺式交通分析系統改善都會區空氣品質模擬
林振維、蔡宜君、蘇志文、龍世俊 |
| 09:30 - 09:45 | AS-C03-005
Long-term reductions in regional pollutants contributed to decreased PM _{2.5} concentrations in Taiwan from 2017 to 2023
Shao En Sun, Charles Chou, Chung Te Lee, Shih Yu Chang |
| 09:45 - 10:00 | AS-C03-006
PM _{2.5} Distribution Patterns in the Urban With Green Space and Building Area
Siang-Heng Wang |
| 10:00 - 10:15 | AS-C03-007
使用觀測資料修正東亞地區排放量並改善臺灣境外污染傳輸模擬
呂峻宇、鄭芳怡 |

主持人：陳正平、阮煌隆

- | | |
|---------------|--|
| 15:15 - 15:30 | AS-C03-008
臺灣地區污染天氣型態、PM _{2.5} /O ₃ 濃度與氣象因子特徵之關聯
李孟軒、李家輝、林暉哲、周崇光、林傳堯、莊銘棟 |
| 15:30 - 15:45 | AS-C03-009
開頂溫室中高濃度臭氧薰蒸對植物揮發性有機化合物釋放之影響
郭呈享、陳正平 |
| 15:45 - 16:00 | AS-C03-010
The Impact of Aerosols on the modification of Winter Raindrop Characteristics in Northern Taiwan
DINH HOANG LONG Nguyen, Chian-Yi Liu, Charles C.-K. Chou |

[AS-AC] 大氣化學與空氣品質**Atmospheric Chemistry and Air Quality**16:00 - 16:15 **AS-C03-011**

Unveiling Pathways of Particulate Nitrate Formation: Insights from Taiwan KPEX and NASA ASIA-AQ Campaign

Prateek Sharma, Mao Chang Liang, Kuo Fang Huang16:15 - 16:30 **AS-C03-012**Comparison of CO₂ Emissions in Taiwan Using Inventories and Satellite Data**Kang-Shian Pan, Chian-Yi Liu, Charles C.-K. Chou**16:30 - 16:45 **AS-C03-013**

Assessment of Irrigation Regimes on Methane Mitigation and Model Validation in a Rice Paddy Cropping System

Syu-Ruei Jhang, Chih-Feng Chiang16:45 - 17:00 **AS-C03-014**

Variations of Spectral Optical Depths Produce Aerosol Characterization from Ground-based and Satellite Remote Sensing over Taiwan

Jelita Citrawati Jihan, Tang Huang Lin**[GW] 第 17 屆地下水資源及水質保護研討會****2025 17th Conference on Groundwater Resources & Water Quality Protection****第 17 屆地下水資源及水質保護研討會開幕式****Room 507**

11:00 - 12:00 開幕致詞暨貴賓致詞

12:00 - 13:00 臺灣地下水資源暨水文地質學會會員大會

15:30 - 16:30 臺灣地下水資源暨水文地質學會理監事聯席會議

[TAPS] 2025 台灣極地研究專題研討暨分享會

Taiwan Polar Research Seminar

TAPS		Room 532
14:00 - 14:30	報到 / Reception	
14:30 - 14:40	開場致詞與合影 / Opening Remarks and Group Photo 貴賓致詞 / Special Guest Speakers	
14:40 - 14:50	台灣極地研究中心簡介與計畫總覽 <i>TaiPI Introduction and Research Project Overview</i> 北極加速暖化之機制與環境衝擊跨域整合研究 <i>The Arctic Joint Research: Transdisciplinary study on the mechanisms and environmental impacts driven by accelerating warming in the Arctic area</i> 演講者：倪春發教授, 台灣極地研究中心主任 Chun-Fa Ni, Director of TaiPI	
14:50 - 15:00	台灣北極研究站 (斯瓦爾巴群島) 最新科研進展：高緯度地區環境變遷之關鍵洞察 <i>Recent scientific advances from the Taiwan Arctic Research Station (Svalbard): Insights into high-latitude environmental change</i> 演講者：張文和教授, 台灣極地研究中心海外工作站主任 Slawomir Jecek Giletycz, Director of TaiArctic	
15:00 - 15:10	Permafrost Thaw and Anthropogenic Influence on Arctic Groundwater in a Warming Climate: Insights from Kaffiøyra, Svalbard 李杰 Jay Lee 中央研究院 環境變遷研究中心 博士後研究員	
15:10 - 15:20	TaiPI Data Repository: A Community-driven Platform for Open Polar Research 潘易翰 Ilham Adi Panuntun 國立中央大學 太空遙測研究中心 碩士 國立中央大學 台灣極地研究中心 研究助理	
15:20 - 15:35	Using WRF to model vertical atmospheric coupling and evaluate performance based on observations 鍾高陞 Kao-Shen Chung 國立中央大學 大氣科學系 副教授	
	The weakening of the stratospheric polar vortex as consequences to Arctic sea-ice loss – the modulations of background mean state, model dependence, and atmosphere-ocean coupling 梁禹喬 Yu-Chiao Liang 國立臺灣大學 大氣科學學系 助理教授	

15:35 - 15:45	Preliminary results of permafrost monitoring with electrical resistive imaging methods and GPR in Kaffiøya, Svalbard. 張竝瑜 Ping-Yu Chang 國立中央大學 地球科學系 教授
15:45 - 15:55	Potential Marine Geophysical Researches in Svalbard 陳麗雯 Liwen Chen 國家海洋研究院 副研究員
15:55 - 16:10	Observations of an Emerging Ice-Free Zone during the Spring Sea-Ice Melting Period amid the 2023 Global SST Warming 錢樺 Chien Hwa 國立中央大學 水文與海洋科學研究所 教授 國立中央大學 台灣極地研究中心 副主任
	Characteristics of microplastics and dioxin-like pollutants in the environmental matrix surrounding coastal lagoons, Kaffiøya 葉嘉安 Jia-An Ye 國立成功大學 海洋科技與事務研究所 博士候選人
16:10 - 16:25	Relative importance of nanoflagellate grazing and viral lysis on the mortality of heterotrophic bacteria and <i>Synechococcus</i> spp. in a high-latitude fjord (Adventfjorden, Svalbard) during the summer 吳美琳 Madeline Olivia 國立臺灣海洋大學 海洋環境與生態研究所 博士
	Variation in the cold stress in Arctic Intertidal Assemblages 陳國勤 Benny K.K. Chan 中央研究院 生物多樣性研究中心 主任
16:25 - 16:40	休息 / Break
16:40 - 17:10	專題座談 / Panel Discussion
17:10	活動結語 / Closing Remarks

6 月 17 日議程 June 17th Sessions

[GS] 2025 中華民國地球物理學會及中華民國地質學會年會暨學術研討會
2025 Annual Conference of Chinese Taipei Geophysical Society &
Geological Society Located in Taipei

會員大會

Room 402

12:00 - 14:00 地質學會會員大會

地科學門座談會

Room 402c

主持人：陳卉瑄、詹瑜璋

14:30 - 15:00 國科會計畫審查原則說明
15:00 - 15:30 最新「顯著災害地震之近即時科學調查」計畫說明會
15:30 - 15:45 最佳計畫審查人頒獎
15:45 - 16:00 最佳大專生創作獎
16:00 - 16:30 座談時間

GS06

Room 402a

[GS-NH1] 山崩與土石流災害

Landslide and Debris Flow

主持人：楊哲銘、張睿明

08:50 - 09:02 **GS06-001**
Environmental Seismology for Landslide(I): Universal Machine Learning Model
for Landslide Detection
Jui-Ming Chang, Wei-An Chao

09:02 - 09:14 **GS06-002**
全監督式深度學習模型於山崩判釋之應用
簡留玄、吳庭瑜、陳德偉、余執彰、許晉瑋、謝有忠、盧詩丁

09:14 - 09:26 **GS06-003**
Environmental Seismology for Landslide (II): A Power-Law Relationship
Governing the Propagation of Rockfall-Induced Seismic Waves
Jui-Ming Chang, Wei-An Chao, Che-Ming Yang, Ming-Wan Huang

09:26 - 09:38 **GS06-004**
Evaluation of wildfires and rockfall assessment in Alishan region through
rainfall and granite analysis
**Raju Kumar Sharma, Gobinda Dey, Pin-Yun Lin, Chin-Wen Wang, Md.
Taharia, Shafiq Ali, Max James Fulgence, Chien-Yen Chen**

[GS-NH1] 山崩與土石流災害**Landslide and Debris Flow****3****6
月
17
日
議
程****June 17th Sessions**09:38 - 09:50 **GS06-005**

應用 UAV-LiDAR 與 MT-InSAR 技術於大規模崩塌潛勢區之熱區監測與工程治理效益評估

區雪儀、陳柔妃、張國楨、郭志禹、陳振宇、詹坤哲、林恩如

09:50 - 10:02 **GS06-006**

Monitoring Rainfall-Induced Landslides and Post-Disturbance Vegetation Dynamics Using Multi-Temporal Satellite Analysis

Mohammad Adil Aman, Hone-Jay Chu, Sumriti Ranjan Patra

10:14 - 10:26 **GS06-007**

以光流技術應用於潛在大規模崩塌地表位移初探

蘇祐鼎、謝有忠、許晉璋、孫武群、郭麟霖、陳勉銘

10:26 - 10:38 **GS06-008**

潛在大規模崩塌地形特徵與關注場址活動度之評估與統計

楊哲銘、楊斯涵、陳貞伶、魏倫瑋、陳德偉、吳庭瑜、曾佳漢、許晉璋、謝有忠

10:38 - 10:50 **GS06-009**

應用地動訊號解析深層滑坡潛勢與滑動特徵之研究

吳澄峰、饒瑞鈞、陳英琪、張睿、曾佳漢、Jan Burjáněk

10:50 - 11:02 **GS06-010**

應用分類分級方法評定潛在大規模崩塌之潛勢分級與活動性

吳庭瑜、陳德偉、魏倫瑋、楊哲銘、曾佳漢、許晉璋、謝有忠、盧詩丁、陳勉銘

11:02 - 11:14 **GS06-011**

霧社水庫集水區邊坡大規模崩塌活動性時序觀測

謝有忠、戴東霖、許晉璋、朱偉嘉、蘇祐鼎、孫武群、劉建麟

11:14 - 11:26 **GS06-012**

Environmental Seismology for Landslide (III): A Seismic-Based Warning System for Rockfall Mitigation on Roadside Slopes Impacted by the 2024 Hualien Earthquake

Jui-Ming Chang, Wei-An Chao, Ming-Wan Huang, Che-Ming Yang

[GS-S6] 2025 大埔地震專題**2025 Dapu Earthquake Special**

主持人：溫怡瑛、溫士忠

14:30 - 14:42 **GS06-013**

2025 年 ML 6.4 大埔地震之破裂機制探討

饒瑞鈞、吳澄峰、陳英琪

[GS-S6] 2025 大埔地震專題

2025 Dapu Earthquake Special

- | | |
|---------------|---|
| 14:42 - 14:54 | GS06-014
2025 年大埔地震序列之高解析重定位與震源機制探討：密集地震陣列的應用與成果
賴佳男、溫士忠、劉祐安、蘇建旻、溫怡瑛、廖勿渝、李恩瑞、黃有志、陳映年 |
| 14:54 - 15:06 | GS06-015
Source rupture model analysis of the 2025 Dapu earthquake, Taiwan
Shiann-Jong Lee, Ting-Yu Liu, Tzu-Chi Lin |
| 15:06 - 15:18 | GS06-016
Applying a Weighted Template-Matching Algorithm (WTMA) to Investigate the Seismogenic Structures and Microseismic Activity of the 2025 ML6.4 Dapu Earthquake Sequence in Taiwan
En-Jui Lee, Wu-Yu Liao, Po Chen, Ruey-Juin Rau, Yuan-Hsi Lee, Strong Wen, Kuo-En Ching, Da-Yi Chen, Wen-Tzong Liang |
| 15:18 - 15:30 | GS06-017
Finite Fault Solutions of the 2025 ML 6.4 Dapu Earthquake and Its Aftershock Spatiotemporal Distribution
Po-Fei Chen, Yopi Serhalawan, Mei Chien, Wei-Li Chen |
| 15:30 - 15:42 | GS06-018
2025 年 Mw 6.1 大埔地震是否與 1964 年 Mw 6.4–6.9 白河地震破裂區重疊？對台灣西南部地震潛勢之啟示
吳瑋哲、王珮綸、饒瑞鈞 |
| 15:54 - 16:06 | GS06-019
利用經驗格林函數法探討 2025 大埔地震之強地動特性
蘇建旻、溫怡瑛、陳俊德 |
| 16:06 - 16:18 | GS06-020
基於深度學習地震目錄揭露 2025 年台灣西部大埔地震序列之發震構造
廖勿渝、李恩瑞、饒瑞鈞、陳達毅、溫士忠、景國恩、梁文宗 |
| 16:18 - 16:30 | GS06-021
Near-real-time assessment of the ML6.4 Dapu earthquake-induced landslides
Che-Ming Yang, Wei-An Chao |
| 16:30 - 16:42 | GS06-022
Changes in the activity of the Hsiaogunshui mud volcano, southwestern Taiwan, during and after the 2025/01/21 Dapu earthquake
Maryline Le Beon, Agnes Helmstetter, Erwan Pathier, Strong Wen, Laurent Metral, Yen-Hsiang Gao, Kai-Feng Chen, Ngoc-Thao Nguyen, Chia-Nan Lai, Jean Vandemeulebrouck |

[GS-S6] 2025 大埔地震專題**2025 Dapu Earthquake Special**

16:42 - 16:54

GS06-023

利用 SeisComP 軟體建置新一代地震測報系統—以 2025 大埔地震為例
宋冠毅、陳達毅、吳逸民

[GS-M3] 光纖感測技術於地質災害、能源開發與環境監測的新進展**Advances in Distributed Acoustic Sensing Technology for Geological Hazards, Energy Development, and Environmental Monitoring**

主持人：黃信樺、鐘志忠

08:50 - 09:02

GS07-001

Advancing Deep-Seated Landslide Monitoring Using Borehole Distributed Acoustic Sensing Technology

Hsin-Hua Huang, Yi-Sheng Huang, Kuo-Lung Wang, Ya-Ju Hsu, Chih-Chung Chung, Chin-Jen Lin, Chin-Shang Ku, Hsi-An Chen

09:02 - 09:14

GS07-002

BOTDR 光纖監測技術應用於剪切帶變形之頻移-剪切位移轉換研究
鐘志忠、傅東瑋

09:14 - 09:26

GS07-003

First Observation of a Lightning-Induced Isotropic Microseismic Event at Depth: Evidence from the MiDAS Seismic Monitoring System, Taiwan

Yen-Yu Lin, Hsin-Hua Huang, Ming-Che Hsieh, Li-Wei Kuo, Chien-Chih Chen, Min-Hsuan Chang, Tze Yuan Chen, Hsi-An Chen

09:26 - 09:38

GS07-004

Thermal Characteristics of the Milun Fault Using Borehole Optical Fiber Sensing

Hsuan-Ting Lai, Kuo-Fong Ma, Yen-Yu Lin

09:38 - 09:50

GS07-005

Illuminating Earthquake Sources with Borehole Fiber Optics: Insights from the 2022 ML6.8 Chihshang, Taiwan, Earthquake

Jolan Liao, Yen-Yu Lin, Kuo-Fong Ma

09:50 - 10:02

GS07-006

River sediment observatory in the mountainous catchment: Long-term and high spatiotemporal monitoring with distributed acoustic sensing (DAS), large-N geophone array, hydrophone, smart rock, AI-based grain-size scanner, and photogrammetric survey

Wei-An Chao, Chi-Yao Hung, Yu-Shiu Chen, Hsin-Hua Huang, Chin-Shang Ku, Che-Lun Yang, Jui-Jen Lin

GS07

Room 402b

[GS-M3] 光纖感測技術於地質災害、能源開發與環境監測的新進展 Advances in Distributed Acoustic Sensing Technology for Geological Hazards, Energy Development, and Environmental Monitoring

10:14 - 10:26 **GS07-007**

Extending the Reach of Marine Geophysics: Nearshore Ocean Monitoring and Active Source Applications with Distributed Acoustic Sensing

Justin Yen-Ting Ko, Kun-Chi Ho, En-Shih Wu, Chun-Hung Lin, Ho Kuo-Chen, Zhuo-Kang Guan, Yao Hsu, Hsi-An Chen, Hsin-Hua Huang, Ho-Han Hsu, Chen-Fen Huang

10:26 - 10:38 **GS07-008**

Construction of Horizontal Strain Array from DAS sensor

Chin-Jen Lin, Kuo-Fong Ma, Hsin-Hua Huang, Chin-Shang Ku

10:38 - 10:50 **GS07-009**

結合離散式升學感測與多通道表面波分析技術之初探

楊倡碩、鐘志忠、李瑞庭

10:50 - 11:02 **GS07-010**

應用分布式光纖感測技術於鐵路路基成像

劉家維、陳榮輝

11:02 - 11:14 **GS07-011**

應用分散式光纖溫度感測技術監測森林環境中風速與太陽輻射之空間分布

李逸帆、中井太郎、林博雄、林欽仁、賴彥任、馬國鳳

11:14 - 11:26 **GS07-012**

Cloud Velocity Observed by Using an All-Sky Camera at Longyearbyen

Jann-Yenq Liu, Jheng-Syun Chao

GS07

Room 402b

[GS-EG] 水文與工程地質學 Hydrogeology and Engineering Geology

主持人：羅百喬

14:30 - 14:42 **GS07-013**

首幅台灣渺子成像術密度影像 - 桃園石門水庫 (24°49'27.5"N, 121°17'9.8"E)

陳建志、鄭凱聿、林志勳、蕭宇翔、彭家城、謝雁羽、蔡子翔、郭家銘、林祐生

14:42 - 14:54 **GS07-014**

從臺灣東部交通路廊探討三維地質模型建構之策略與應用

邱家宏、黃宥傑、黃詠智、王泰典、李佳翰、孫荔珍

[GS-EG] 水文與工程地質學**Hydrogeology and Engineering Geology**

14:54 - 15:06	GS07-015 山腳斷層滑移風險評估及地下孔隙壓力擴散模擬 李健豪、吳泓昱
15:06 - 15:18	GS07-016 量化工程地質模型不確定性對邊坡穩定分析之影響 黃詠智、邱家宏、王泰典、鄭富書
15:18 - 15:30	GS07-017 坡趾受河道下切與加積影響邊坡變形模擬探討 羅百喬、黃宥傑、蔡承翰、王泰典
15:30 - 15:42	GS07-018 測繪學生結合數值模型精進山岳隧道施工監測探討 林璋元、王泰典
15:54 - 16:06	GS07-019 隧道結構行為之水力互制分析 施冠宇、王泰典、邱雅筑
16:06 - 16:18	GS07-020 東部地區之土壤層性質與水力特性初探 郭品秀、沈如妍、劉慶怡、張原銘、彭國瑛、陳耐錦、莊伯禹、柯建仲
16:18 - 16:30	GS07-021 考慮隧道開挖對裂隙岩體滲透特性影響之近場水流模擬 張晟祐、邱雅筑、王泰典
16:30 - 16:42	GS07-022 Eruption of a CO ₂ -driven Cold-Water Geyser, Crystal Geyser in Utah Weon Shik Han
16:42 - 16:54	GS07-023 Water cycle and groundwater budget of Jeju Island Kyoochul Ha

[GS-V4] 地殼與地函的岩石圈構造交互作用**Lithotectonic Interaction between Crust and Mantle**

主持人：葉孟宛

08:38 - 08:50	GS08-001 Geochemistry and geochronology of middle Paleozoic-early Mesozoic granite in the southern Truong Son terrane, central Vietnam Chi Thi Pham, Jonh Gregory Shellnutt, Hao-Yang Lee, Anh The Bui
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GS08

Room 402c

[GS-V4] 地殼與地函的岩石圈構造交互作用

Lithotectonic Interaction between Crust and Mantle

08:50 - 09:02 GS08-002

Geochemistry of Mesoproterozoic dyke swarms of the Southern and Superior provinces, Canadian Shield

Wei-Yu Chen, John Gregory Shellnutt

09:02 - 09:14 GS08-003

Phase equilibria modelling of basaltic rocks from the Vesuvian surface: Implications for the silicic melt generation

Sam Uthup, John Gregory Shellnutt

09:14 - 09:26 GS08-004

Preliminary field, geochemical, and geochronological results from the Korba granites, Central Indian Tectonic Zone

BorJie Hsieh, Gregory John Shellnutt, K. R. Hari, Neeraj Vishwakarma, Shrinivas Deshmukh

09:26 - 09:38 GS08-005

Tectonic Significance of Ultra-Slowly Uplifted Seychelles Granites: Insights from Argon Geochronology

Meng wan Yeh, Chi Pham, Gregory J. Shellnutt, Manu M.P. Prasanth

09:38 - 09:50 GS08-006

印尼西爪哇東部火成岩的地球化學與年代學

呂宛馨、賴昱銘、鍾孫霖、Setiawan Iwan、李皓揚

09:50 - 10:02 GS08-007

臺灣新竹馬武督的鉍石巨晶：U-Pb 地質年代學、原位 Hf-O 同位素特徵及其地質意義

董國安、蔣正興、林郁伶、黃克峻、楊懷仁、李皓揚、李獻華

GS08

Room 402c

[GS-V1] 一般地球化學

General Geochemistry

主持人：劉怡偉

10:14 - 10:26 GS08-008

Assessing adaptive abilities of the orange coral *Tubastraea aurea* to ocean acidification using geochemical proxies

Yi-Wei Liu, Gowri Krishna Girija, Jiang-Shiou Hwang

10:26 - 10:38 GS08-009

Decoding Sedimentary Pyrite Records Through In-Situ Sulfur Isotope Analysis

Liu Yung-Hsin, Lee Der-Chuen, Liang Mao-Chang, Iizuka Yoshiyuki, Thiemens H. Mark, Shen Yanan

[GS-V1] 一般地球化學**General Geochemistry**10:38 - 10:50 **GS08-010**

Spinel and phosphate mineral chemistry as potential markers for the formation of the Southampton Pallasite

Alessia Riccardo, J. Gregory Shellnutt, Yoshiyuki Iizuka

10:50 - 11:02 **GS08-011**

Trigger and Mechanism for the Late Ordovician Glaciation and Mass Extinction

Kuo-Fang Huang, Yung-Hsin Liu, Ai-Lin Chen, Hong-Yi Chen, Yanan Shen

[GS-V3] 環境地球化學**Environmental Geochemistry**

主持人：劉怡偉

11:02 - 11:14 **GS08-012**

Applying Triple Oxygen Isotopes of Nitrate to Quantify Gross Nitrification Rates in an Oligotrophic, Freshwater Environment

Han Chen, Fumiko Nakagawa, Urumu Tsunogai

[GS-TT2] 臺灣之地質構造與環境變遷**Geological Structure and Environmental Change in Taiwan**

主持人：葉恩肇

08:38 - 08:50 **GS09-001**

古近紀鄰近臺灣區域的岩漿活動年代為何?

陳文山、洪嘉佳、邵文佑、鍾孫霖

08:50 - 09:02 **GS09-002**

Comparison of Cenozoic Rift-Drift Transitions in the Northern Taiwan Hsuehshan Trough and Southern East China Sea Shelf Basin: Insights from Detrital Zircon Analysis

Tung-Yi Lee, Chun-Chi Chen, Yu-Ling Lin, Mei-Cheng Lai

09:02 - 09:14 **GS09-003**

Shear Velocity Structures Related to Arc-Continental Collision and Ancient Rift Events beneath Southern Taiwan Revealed by Rayleigh Wave Tomography

Hsiu-Cheng Yeh, Pei-Ying Patty Lin, Hsin-Ying Yang, Tai-Lin Tseng, Chih-Ming Lin, Shu-Huei Hung, Eh Tan, Chau-Ron Wu

GS09

Room 403

[GS-TT2] 臺灣之地質構造與環境變遷

Geological Structure and Environmental Change in Taiwan

09:14 - 09:26

GS09-004

Structural history and kinematic evolution during exhumation processes in the eastern Central Range, Taiwan

En-Chao Yeh, Yu-Shi Cheng, Yu-Ho Li, Huei-Fen Chen, Chih-Tung Chen, Ping-Chuan Chen, Ya-Chu Tseng, Ning-Shan Hui, Yu-Ching Chang, Jui-Yu Lien

09:26 - 09:38

GS09-005

Thermo-Tectonic Evolution of the Taiwan Slate Belt: New Constraints from High-Resolution LiDAR 3D Structural Mapping

Yun-Pin Chen, Yu-Chang Chan, Yu Wang, Wan-Ting Wei

GS09

Room 403

[GS-GM] 地形學/地質景觀

Geomorphology / Geological Landscape

主持人：葉恩肇

09:38 - 09:50

GS09-006

Assessment of Active Tectonics Using Geomorphic Indices in the Badlands of Southwestern Taiwan

Kifayat Ali, Maryline Le Béon, Lionel Siame, Kai Feng Chen, Ngoc Thao Nguyen, Kuo En Ching, Erwan Pathier

GS09

Room 403

[GS-TT2] 臺灣之地質構造與環境變遷

Geological Structure and Environmental Change in Taiwan

主持人：葉恩肇

09:50 - 10:02

GS09-007

利用光達三維數值地形模型精進西部麓山帶及雪山山脈地質區交界附近之構造幾何：以桃園地質圖幅為例

魏婉庭、詹瑜璋、葉恩肇、陳允平

GS09

Room 403

[GDGS-EO] 測地學與活動地殼變形/遙感探測技術

Geodesy and Crustal Deformation / Remote Sensing

主持人：譚諤、徐乙君

10:14 - 10:26

GS09-008

利用荷重-克來勞方程式估計 LLVP 造成之 CMB 非自轉扁率

王祐翔、趙丰

[GS-TT1] 地震地質與新期構造**Earthquake Geology and Neotectonics**

主持人：譚諤、徐乙君

10:26 - 10:38 **GS09-009**

Intraslab stress heterogeneity and continental lithospheric mantle rheology revealed by the earthquake doublet in Northern Manila subduction zone

Wan-Lin Hu, Eh Tan, Ryo Okuwaki, Yuji Yagi10:38 - 10:50 **GS09-010**

臺灣弧前基盤缺失的熱-機械力學耦合數值模型

陳致信、譚諤、李元希、洪淑蕙10:50 - 11:02 **GS09-011**

Structural Evolution of the Eastern Taiwan Collision Zone: Insights from 2D Thermo-Mechanical Simulations

Tan Eh, Yuan-Hsi Lee, Chi-Hsin Chen, Shu-Huei Hung11:02 - 11:14 **GS09-012**

Lithological and structural controls on surface deformation in the mudstone-rich fold-and-thrust belt of southwestern Taiwan: A perspective from numerical experiments

Wan-Lin Hu, Tan Eh**[GDGS-EO] 測地學與活動地殼變形/遙感探測技術****Geodesy and Crustal Deformation / Remote Sensing**

主持人：譚諤、徐乙君

11:14 - 11:26 **GS09-013**

Tectonic Deformation and Backthrust Fault Development Along the Chelungpu Fault: Insights from PSInSAR Analysis

Yi-Chun Hsu, Chung-Pai Chang, Jiun-Yee Yen, Chun-Chin Wang, Chih-Heng Lu, Nai-Wun Shih, Shao-Yi Huang, Yu-Ting Kuo, I-Chin Yen11:26 - 11:38 **GS09-014**

恆春半島內陸斷層之觸發型慢滑移事件：大地測量資料與地震序列模擬之整合分析

蕭詩涵、景國恩、安藤亮輔、張文和、張午龍、陳建良

GS09

Room 403

[GS-TT1] 地震地質與新期構造

Earthquake Geology and Neotectonics

主持人：譚諤、徐乙君

11:38 - 11:50 **GS09-015**

池上斷層傾角統計與分析結果

陳冠宇

11:50 - 12:02 **GS09-016**

透過量化臺灣不同區域的海水面變化以修正海岸構造抬升量之估計

何安、徐濤德、譚諤、Ken L. Ferrier

GS09

Room 403

[GS-ST1] 地層與古生物研究

Stratigraphy and Paleontology

主持人：林日白、林千翔

13:30 - 13:42 **GS09-017**

「早坂犀牛」之名字使用論析

紀子勤、楊富鈞

13:42 - 13:54 **GS09-018**

A New Deinotherium levius (Deinotheriidae, Proboscidea) Finding from Thrace, Türkiye: Implications for Anatolian Paleobiogeography

Halaçlar Kazım, Mayda Serdar

13:54 - 14:06 **GS09-019**

An Investigation into The Relationship between Avian Bone Structure and Flight Ability

Ci-Hong Ciou, Tzu-Ruei Yang, Cheng-Te Yao, Shiao-Yu Hong, Bi-Qing Liang, Chun-Chieh Wang

14:06 - 14:18 **GS09-020**

蛋殼力學反映已滅絕鳥類與非鳥類恐龍多樣的生殖策略

吳筱柔、顏安、于宏燦、莊嘉揚、楊子睿

14:18 - 14:30 **GS09-021**

MYSTERY OF THE KUTCH TERRANE, BIOGEOGRAPHIC EVIDENCE FROM THE MIOCENE SAND DOLLARS

Ammu Sankar Senan, Jih-Pai Lin, Rajeev Patnaik

14:30 - 14:42 **GS09-022**

A new Miocene marine fish assemblage from the Penghu Archipelago, Taiwan

Lin Chien-Hsiang

[GS-ST1] 地層與古生物研究**Stratigraphy and Paleontology**

14:42 - 14:54	GS09-023 Additional Sharks and batoids (Chondrichthyes, Elasmobranchii) from the Middle Miocene Gaj Formation, Bhavnagar Gujarat and late Miocene Baripada Beds, Odisha, India: A discussion paleobiogeography Kongrailatpam Milankumar Sharma, Asgar Hossain, Parthasarathi Biswal, Tusar Ranjan Mohanty, Rajeev Patnaik
14:54 - 15:06	GS09-024 Elasmobranch assemblage of the Lower Pleistocene Cholan Formation, northern Taiwan Yufong Chen, Ming-Tsung Chung, Chien-Hsiang Lin
15:18 - 15:30	GS09-025 Dominant myctophid otoliths indicate late Miocene coastal upwelling in Panama Lin Chien-Hsiang, O'Dea Aaron
15:30 - 15:42	GS09-026 Unraveling the evolution of Sciaenidae (Perciformes): a window into Cenozoic marine diversity and paleogeography Wu Siao-Man, Lin Chien-Hsiang
15:42 - 15:54	GS09-027 上新統-更新統地層界線對比再研究 TANYISHENG, LINJIHPAI
15:54 - 16:06	GS09-028 大屯火山地質製圖原則探討 洪國騰、林啓文、陳致言、陸挽中、李柏村、尤琇琳
16:06 - 16:18	GS09-029 台灣甲仙鹽水坑頁岩冷泉碳酸鹽岩中新發現之海蛞蝓 簡一德、彭紹宏、梁碧清、李世緯
16:18 - 16:30	GS09-030 臺南玉井地質調查-鏡面砂岩的層位探討 莊釗鳴、周稟珊、劉彥求、林殿順
16:30 - 16:42	GS09-031 臺灣海膽化石生物帶與南港層區域地層對比初探 林日白

[EE] 永續發展觀點下的地球科學教育與傳播

Earth Science Education and Communication from the Perspective of Sustainable Development

EE02

Room 404

08:40 - 09:00	報到
09:00 - 09:20	EE02-001 跨模態生成式 AI 驅動的科學圖像優化流程：以颱風地形交互為例的知識建構實踐 陳弘正
09:20 - 09:40	EE02-002 透過海洋大數據競賽推動地球科學教育與永續發展 陳思樺
09:40 - 10:00	EE02-003 From Folk Symbols to Climate Action: Cultural Translation and Citizen Science Innovation of the Nine-Nine Cold Elimination Chart Yu-Hui Lin, Hung-Cheng Chen
10:00 - 10:15	休息
10:15 - 11:15	「科學傳播」專題演講 II 題 目：在地爭議中的科學外交：爭議與客觀知識傳播的科學協定 Scientific Diplomacy in Local Disputes: Scientific Protocol for Objective and Controversial Knowledge 主持人：張俊彥教授 演講者：廖英凱博士 國立臺灣師範大學科學教育研究所博士後研究員 科學月刊理事
11:15 - 12:15	用生成式 AI 重新定義地科教學：AISI 助力永續素養的培養 Redefining Earth Science Education with Generative AI: Empowering Sustainability Literacy through AISI 演講者：隋奇融助理研究員 / 國家教育研究院測驗與評量研究中心 張俊彥教授 / 國立臺灣師範大學科學教育研究所暨地球科學系
12:15 - 13:10	午餐
13:10 - 16:10	天球儀製作與教學應用 (工作坊) 主持人：楊芳瑩教授 演講者：林琦峯副研究員、梁峰榮解說員 臺北市立天文科學教育館
16:10 - 16:30	綜合座談

[AS-C] 全國大氣科學學術研討會
National Atmospheric Sciences Conference

AS-C04

Room 500

[AS-MM] 綜觀/中尺度氣象

Synoptic and Mesoscale Meteorology

主持人：劉清煌、林沛練

08:30 - 08:45 **AS-C04-001**

Severe vortices associated with 2024 Kong-Rey Typhoon outer rainband
Ching-Hwang Liu, Jien-Tun Wang, Chi-Sheng Chang

08:45 - 09:00 **AS-C04-002**

臺灣西北部與東沙島梅雨季與冬季低層噴流特徵研究
林沛練、陳聖允、李旻恩、涂絹琪

09:00 - 09:15 **AS-C04-003**

Reanalysis on Multi-scale Weather Scenario on Two Catastrophic Floods
Initiated by Tropical Depressions in Taiwan for Early Warning
Tai-Hwa Hor, Tian-Yow Shyu, Chiung-Kuang Chu, Chun-Chieh Tseng

09:15 - 09:30 **AS-C04-004**

Improving Afternoon Thunderstorm Prediction in Taiwan : Insights from
Dense Ground-based GNSS Assimilation
**YangShuchih, ChangYi-Ping, YehTa-Kang, ZusFlorian, ThundathilRohith,
WickertJens**

09:30 - 09:45 **AS-C04-005**

掩星資料對東北太平洋大氣長河強度預報的改進與誤差特徵
鄧旭峰

09:45 - 10:00 **AS-C04-006**

西北太平洋長滯留熱帶氣旋研究
周昆炫、林書正、李繼常

主持人：張志謙、柯縉盈

10:30 - 10:45 **AS-C04-007**

利用三維風場反演、系集數值模擬和群集分析方法 解析臺灣北部極端降
雨事件
鍾高陞、柯縉盈、蔡沛蓉、陳宇能、廖宇慶

10:45 - 11:00 **AS-C04-008**

Evaluation of forecast skill sensitivity to update scenarios in TGFS hybrid gain
data assimilation system
Chih-Chien Chang, Shu-Chih Yang, Guo-Yuan Lien

11:00 - 11:15 **AS-C04-009**

溫度同化對強降水系統中降水粒子演變的影響評估
柯縉盈、鍾高陞

6
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June 17th Sessions

[AS-MM] 綜觀/中尺度氣象

Synoptic and Mesoscale Meteorology

11:15 - 11:30 **AS-C04-010**

A Modeling Study of the Impact of Topography on Strongly-Forced Afternoon Thunderstorms and Extreme Rainfall in Northern Taiwan: TAHOPE/PRECIP IOP 2
Jyong-En Miao, Ming-Jen Yang, Kristen Rasmussen, Michael Bell

11:30 - 11:45 **AS-C04-011**

Identifying the region in Taiwan with 3 radar coverages and using WISDOM to retrieve wind fields from the thermal cell in WRF
Yi An Chen, Yu Chieng Liou

11:45 - 12:00 **AS-C04-012**

利用都卜勒雷達與雨量計觀測辨識熱帶氣旋引發的地形降水機制
鄭凌文、游政谷、陳渲屏

主持人：曾開治、張偉裕

13:00 - 13:15 **AS-C04-013**

Formation of the Taiwan rainband associated with the aircraft crash
Che-Yu Lin, Cheng-Ku Yu

13:15 - 13:30 **AS-C04-014**

使用四維變分資料同化分析秋冬季淺對流產生之強降雨個案
吳孟杰、廖宇慶

13:30 - 13:45 **AS-C04-015**

東北季風作用下台灣東北部凹形地形的地形性降水：YESR2021 精細尺度雷達風場反演
楊詠荃、張偉裕

13:45 - 14:00 **AS-C04-016**

Impacts of GNSS RO Data Assimilation on Tropical Cyclogenesis Predictions Using WRF Hybrid 3DEnVar
Quan Pham Xuan, Shu-Ya Chen, Ching-Yuang Huang, Ying-Hwa Kuo

14:00 - 14:15 **AS-C04-017**

Tropical cyclone impacts on the global climate mean field and variability using the dynamic-balanced global tropical cyclone removal dataset
Arakane Sho, Hsu Huang-Hsiung, Chen Ying-Ting

14:15 - 14:30 **AS-C04-018**

似颱風渦旋通過台灣地形路徑偏轉機制之研究：動態模型新視角
陳弘正

14:30 - 14:45 **AS-C04-019**

Predictability of tropical cyclone track density in S2S reforecast
Chi Lok Loi, Kai-Chih Tseng, Chun-Chieh Wu

[AS-MM] 綜觀/中尺度氣象**Synoptic and Mesoscale Meteorology**14:45 - 15:00 **AS-C04-020**

過去七百年中國洪水事件時空群聚分析

林有祥、林冠慧、曾琬鈴

[AS-BL] 邊界層與局部環流**Boundary Layer and Local Circulation**

主持人：陳韡鼎、蔡嘉倫

15:30 - 15:45 **AS-C04-022**

The spatial inhomogeneity of the PBL observed by Vehicle-based Doppler Wind Lidar During Asia-AQ-Taiwan

Chen Wei-Nai, Chuang Ming-Tung, Lin Chuan-Yao15:45 - 16:00 **AS-C04-023**

嘉義晴空大氣邊界層觀測實驗計畫

蔡嘉倫、廖宇慶、林沛練、陳韡鼎、劉千義、蔡世樵、黃柔嫻

16:00 - 16:15 **AS-C04-024**

Impact of Land Use Change on Daily Surface Temperature over the Maritime Continent

Ren-Jie Wu, Min-Hui Lo16:15 - 16:30 **AS-C04-025**

Fog dampens the spatiotemporal variation of microclimate

Yi-Shin Jang, Min-Hui Lo, Yen-Jen Lai**[AS-AW] 進擊暖化下的天氣與氣候****Weather and Climate in Advancing Warming**

主持人：李庭慧

08:30 - 08:45 **AS-C05-001**

Characteristics of East Asian monsoon cycle represented by the western Pacific-Indian Ocean regional low-level circulation types and the relationship with ENSO

Yin-Min Cho, Mong-Ming Lu

[AS-AW] 進擊暖化下的天氣與氣候

Weather and Climate in Advancing Warming

08:45 - 09:00 **AS-C05-002**

Long-Term Precipitation Isotopic Analysis for Understanding Ocean-Atmosphere Dynamics and Climate Change in the Malaya Peninsula

Harsh Oza, Ludvig Löwemark, George Kontsevich, Akkaneewut Jirapinyakul, Sakonvan Chawchai, Helmu Duerrast, Mao-Chang Liang, Midhun Madhavan, Chung-Ho Wang

09:00 - 09:15 **AS-C05-003**

Emergence and Simulation of Global Ocean Warming Pattern

Huang-Hsiung Hsu, Yu-Luen Chen

09:15 - 09:30 **AS-C05-004**

Exploring the changes in sea-ice internal variability under global warming

Siou-Min Tsao, Yu-Chiao Liang, Clara Deser, Jennifer E Kay, Jin-Yi Yu

09:30 - 09:45 **AS-C05-005**

TaiESM 1D Ocean Model: Introduction & Evaluation

Chia-Ying Tu, Chung-Cheh Chou, Zheng-Yu Yan

09:45 - 10:00 **AS-C05-006**

Exploring the simulated bias of atmospheric and oceanic feedbacks on ENSO simulation in TaiESM1

Wan-Ling Tseng, Wang Yi-Chi, Lee Shih-Yu, Hsu Huang-Hsiung, Chen Yu-Lun, Hsieh Cheng-Hsun, Lee Wei-Liang, Shen Mao-Lin, Hsiu Chein-Jung, Liang Hsin-Chien

10:00 - 10:15 **AS-C05-007**

臺灣氣候變遷概述說明-縣市尺度

劉曉薇、王俊寓、李亭萱、羅資婷、陳昭安、鄭兆尊、童裕翔、周至中、李彥緯、趙品諭、林士堯、陳永明

主持人：駱世豪

10:40 - 11:00 **AS-C05-008**

Satellite-Based Estimation of Convective Mass Flux for Convective Dynamics and GCM Evaluation

Zhengzhao Johnny Luo

11:00 - 11:15 **AS-C05-009**

Characterization of heatwaves in Taiwan

尤熾臻、鄭芳怡

11:15 - 11:30 **AS-C05-010**

Impacts of Global Warming on Severe Drought in Northern Taiwan: A Future Projection Based on the Year 2021

Shih-Ming Huang, Tsung-Yu Lee, Chuan-Yao Lin, Yi-Ying Lin, Huang-Hsiung Hsu, Fuh-Kwo Shiah

[AS-AW] 進擊暖化下的天氣與氣候**Weather and Climate in Advancing Warming**11:30 - 11:45 **AS-C05-011**

臺灣近期區域高溫事件初探

羅資婷、李亭萱、駱世豪、童裕翔

11:45 - 12:00 **AS-C05-012**

全球熱浪事件特性變化之應用分析

駱世豪、許晃雄、張雅惠

主持人：曾琬鈴

13:00 - 13:20 **AS-C05-013**

寒冷與溫暖氣候下的極端對流風暴

王寶貴

13:20 - 13:40 **AS-C05-014**

Thunderstorms and extreme weather in Malaysia

Azizan Abu Samah, Mohd Fadzil Firdzaus Mohd Nor, Nur 'Aliyah Alzian, Thenamuthan Segaran

13:40 - 13:55 **AS-C05-015**

Warming Seas Around Malaysia

Wee Cheah

13:55 - 14:10 **AS-C05-016**

The future extreme precipitation systems of orographically locked diurnal convection: the benefits of using large-eddy simulation ensembles

Chien-Ming Wu, Wei-Ting Chen, Yu-Hung Chang, Huai-Yi Huang

14:10 - 14:25 **AS-C05-017**

Increasing frequency, intensity, duration and areal extent of extreme precipitation events in Japan since 1900

Cheng-Ta Chen, Shiou-Li Lin, Shih-How Lo

14:25 - 14:40 **AS-C05-018**

Robust decadal predictability of cold surge frequency in Taiwan and East Asia through teleconnection of North Atlantic Oscillation

Wan-Ling Tseng, Yi-Chi Wang, Ying-Ting Chen, Yi-Hui Wang, Huang-Hsiung Hsu, Chi-Cherng Hong

14:40 - 14:55 **AS-C05-019**

Modulating Extreme Hydrological Events in the Maritime Continent through Land Cover Conversion

Yulizar Yulizar, Min-Hui Lo

主持人：林永富

15:30 - 15:50 **AS-C05-020**

Category '6' Tropical Cyclones in the Warming Climate

I-I Lin, Chun-Chieh Wu, Yuqing Wang, Chun-Chi Lien, Ya-Ting Chang

AS-C05

Room 501

[AS-AW] 進擊暖化下的天氣與氣候**Weather and Climate in Advancing Warming**15:50 - 16:05 **AS-C05-021**

Tropical Cyclone Motion in the Western North Pacific under the Global Warming Trend: Exploring Moderated Changes and the Interplay of Synoptic-Scale Systems, Large-Scale Circulations, and SST Warming Patterns

Yi-Hsuan Huang, Chun-Chieh Wu, Yi-Chen Li

16:05 - 16:20 **AS-C05-022**

Evaluating the Impact of Global Warming on Tropical Cyclone Genesis in the Western North Pacific: A Comparative Study of Tropical Cyclone Genesis Indices Using CMIP6 Models

蕭立朋、許晃雄

16:20 - 16:35 **AS-C05-023**

Annually resolved Northwestern Pacific tropical cyclone series since the mid-14th century: intensified activities during the Maunder Solar Minimum

Kuanhui Elaine Lin, Wan-Ling Tseng, Yu-Shiuan Lin, Chen-Ying Lee, Yu-Hsiang Lin, Huang-Hsiung Hsu, Pao K. Wang

16:35 - 16:50 **AS-C05-024**

評估西北太平洋熱帶氣旋活動之年際變化的新指標

林書正、周昆炫、蕭裕成

16:50 - 17:05 **AS-C05-025**

Interactions between Tropical Cyclones and Marine Heatwaves

Iam-Fei Pun, Huang-Hsiung Hsu, Il-Ju Moon, I-I Lin, Jin-Yong Jeong

17:05 - 17:20 **AS-C05-026**

A Non-El Niño state in Western North Pacific during the 2023 El Niño and its role in typhoon intensification

Yong-Fu Lin, I-I Lin, Jin-Yi Yu, Chau-Ron Wu

AS-C06

Room 502

[AS-BL] 邊界層與局部環流**Boundary Layer and Local Circulation**

主持人：廖宇慶、宋偉國

08:30 - 08:45 **AS-C06-001**

The use of observed and retrieved parameters from radar/lidar data to improve rainfall forecast and study boundary layer characteristics

Yu-Chieng Liou, Po-Chien Yang, Wei-Nai Chen, Yu-Chi Lee, Yu-Chin Hsu, Chia-Lun Tsai, Pay-Liam Lin, Bergius Su, Chia-Wei Lan

[AS-BL] 邊界層與局部環流**Boundary Layer and Local Circulation**08:45 - 09:00 **AS-C06-002**

背風渦漩對高屏地區空氣品質及 PM2.5 化學成分的影響
宋偉國、袁中新、曾佑綸、蔡瀛逸、林志忠

09:00 - 09:15 **AS-C06-003**

嘉義地區冬季大氣邊界層熱力結構變化之探討
洪琳、張盛嘉、劉千義、陳彥宸

09:15 - 09:30 **AS-C06-004**

Assessing Reanalysis Products in the Southeast Pacific Marine Stratocumulus Regime Using VOCALS-REx Observations
Danielle Manalaysay, Yi-Hsuan Chen

09:30 - 09:45 **AS-C06-005**

坡地森林中風速與溫度波動對紊流結構與氣體交換之影響
李逸帆、中井太郎、賴彥任、馬國鳳

09:45 - 10:00 **AS-C06-006**

利用深度學習模型進行大氣邊界層高度預報測試與地面空氣品質評估
王悅晨、TranHuynh Duy、王聖翔

主持人：陳維婷、陳毅軒

10:30 - 10:45 **AS-C06-007**

Characteristics of Low Level Jets and Their Relationship with Heavy Rainfall in Nearby Area of Taiwan
Pay-Liam Lin, Chuan-Chi Tu, Yi-Leng Chen

10:45 - 11:00 **AS-C06-008**

The Opportunity to Investigate the Atmospheric Vertical Motion From Diurnal Convection over Complex Topography of Tropical Mountainous Islands
Wei-Ting Chen, Yu-Hsiu Wang, Po-Yen Chen, Chien-Ming Wu

11:00 - 11:15 **AS-C06-009**

六月期間準雙週振盪對海洋邊界層噴流及豪雨的調節
涂絹琪、隋中興、盧孟明、林沛練

11:15 - 11:30 **AS-C06-010**

冬季宜蘭地區持續性降水個案模擬研究
鄭佩迪、侯昭平

11:30 - 11:45 **AS-C06-011**

Understanding Simulated Marine Stratocumulus in Taiwan Earth System Model Version 1 (TaiESM1)
Yi-Hsuan Chen, Danielle Manalaysay

11:45 - 12:00 **AS-C06-012**

Aerosol effects in Seeder-feeder mechanism: A case study in overlaid boundary-layer-topped cloud during cold-air outbreak
Chung-Kai Wu, Jen-Ping Chen

[AS-RS] 遙測技術與研究

Remote Sensing Techniques and Studies

主持人：林建宏、陳舒雅

13:00 - 13:15 **AS-C06-013**

福爾摩沙衛星七號電離層探測與太空天氣進展

林建宏、P. K.Rajesh、林其彥

13:15 - 13:30 **AS-C06-014**

Comparative Analysis of Polarimetric Radio Occultation Observations and WRF Simulations for Tropical Cyclone Cases

Shu-Ya CHEN, Bill KUO, Hsiu-Wen LI, Ramon PADULLÉS, Estel CARDELLACH, Joe TURK

13:30 - 13:45 **AS-C06-015**

Retrieving the Liquid Water Content and Characteristics Dropsizes of Rain Using Collocated X- and K-band Radars: OSSE and Real Case Study

Wei-Yu Chang, Hua-En Lin

13:45 - 14:00 **AS-C06-016**

適應性曲面擬合方法於都卜勒速度場反折錯與雜訊濾除之應用

方偉庭、張保亮

14:00 - 14:15 **AS-C06-017**

Microphysical and Kinematical Characteristics of Merged and Isolated Convective Cells over the Complex Terrain of the Taipei Basin

Jyong-En Miao, Ming-Jen Yang, Kristen Rasmussen, Michael Bell, Hung-Chi Kuo, Ting-Yu Cha

14:15 - 14:30 **AS-C06-018**

Retrieving Gamma Raindrop Size Distributions from a Vertically Pointing VHF Radar: An Analytical Solution Approach

Meng-Yuan Chen, Ching-Lun Su, Wei-Sung Jen, Yen-Hsyang Chu, Wei-Nai Chen

14:30 - 14:45 **AS-C06-019**

Estimating changes in typhoon intensity based on on-demand observation of micro-satellites

YUKIHIRO TAKAHASHI, MERYL ALGODON, HISAYUKI KUBOTA

14:45 - 15:00 **AS-C06-020**

An Investigation on Microphysical Characteristics of Early-, Late-, and Post-Mei-yu Season Rainfall Over Taiwan

Seela Kumar Balaji, Janapati Jayalakshmi, Pay-Liam Lin, Chian-Yi Liu, Chuan-Chi Tu

[AS-RS] 遙測技術與研究**Remote Sensing Techniques and Studies**

主持人：周昆炫、林冠任

15:30 - 15:45 **AS-C06-021**

A Real-Time Framework for Assessing Tropical Cyclone Surface Wind Speed Using a Parametric Model and Multiple Satellite Winds

Yi-Pin Chang, Shu-Chih Yang, Kuan-Jen Lin, Chun-Wei Lin, Tso-Ren Wu15:45 - 16:00 **AS-C06-022**

Triton 與 ASCAT 衛星風場於熱帶氣旋周遭的比對分析

李繼常、周昆炫16:00 - 16:15 **AS-C06-023**

Spatiotemporal Analysis of Volcanic Aerosol Distribution from the 2018 Eruption of Mount Merapi Using Satellite Observations and Climate Model Comparison

Adi Ankafia, Tang-Huang Lin, Budi Mulyanto16:15 - 16:30 **AS-C06-024**

Machine Learning Approach for Flood Susceptibility Model Based on the Sentinel-1 SAR Flood Inventory Construction

Aprizal Verdyansyah, Lin Tang Huang16:30 - 16:45 **AS-C06-025**

Bias characteristics and estimation of the FORMOSAT-7/COSMIC-2 radio occultation bending angle in the deep troposphere with a machine learning algorithm

Huan Gia Pham, Chih Shu Yang, Ya Shu Chen, Yung Cheng Huang, Nung Kuo Wang16:45 - 17:00 **AS-C06-026**

Investigation of Equatorial Plasma Bubble Occurrence in the Taiwan Region Using GNSS and a VIPIR Station (2023-2024): Findings on the Onset of Solar Cycle 25 Maximum

Kyle Ezekiel Juadines, Lung-Chih Tsai, Tung-Yuan Hsiao

[LSUB] 地層下陷監測與防治研討會

The 3rd LAnd Subsidence induced by fluid ExtRaction 2025

LSUB01

Room 503

[LSUB] 地層下陷監測與防治研討會

The 3rd LAnd Subsidence induced by fluid ExtRaction 2025

主持人：楊名、葉大綱

09:00 - 09:18 **LSUB01-001**

Combination on GNSS precise point positioning and InSAR data fusion to monitor the land subsidence in Taiwan

Ta-Kang Yeh, Tsu-Yu Lee, I-Hsien Lee, Jiun-Yee Yen, Chuen-Fa Ni

09:18 - 09:36 **LSUB01-002**

High-Resolution Subsurface Mapping Using SBAS-InSAR and Multilayer Compaction Monitoring Wells for Land Subsidence Mitigation

Thai-Vinh-Truong Nguyen, Chuen-Fa Ni

09:36 - 09:54 **LSUB01-003**

Enhancing Urban Resilience Through Tomo-PSInSAR-based Structural Health Monitoring

Yi-Ching Chen, Nina Yunung Lin, Tee-Ann Teo, Chin-Yeh Chen, Tian-Yuan Shih, Hsin Tung

09:54 - 10:12 **LSUB01-004**

Land Subsidence in Taiwan Observed by SAR Satellite

Kuo-Hsin Tseng, Yu-Heng Tai, Yun-Chiao Chang, Tsung-Ying Tsai, Ting-Yu Lai

10:12 - 10:30 **LSUB01-005**

Embracing a new perspective on Venice's vulnerability to land subsidence and sea-level rise

Luigi Tosi, Marta Cosma, Cristina Da Lio, Sandra Donnici

10:30 - 10:50 交流茶會 / Tea Break

主持人：顧承宇、黃金維

10:50 - 11:08 **LSUB01-006**

A stochastic approach to investigate differential land displacements due to groundwater overdraft. The Bologna (Italy) case study

Pietro Teatini, Xi Tang, Claudia Zoccarato, Roberta Boni, Roberta Paranunzio, Francesca Cigna

11:08 - 11:26 **LSUB01-007**

Double trouble: land subsidence and greenhouse gas emissions in peatlands – new insights from measurements

Gilles Erkens, Sanneke van Asselen, Rudi Hessel

[LSUB] 地層下陷監測與防治研討會**The 3rd LAnd Subsidence induced by fluid ExtRaction 2025**11:26 - 11:44 **LSUB01-008**

Land subsidence vs. urban development: Which process impacts more on floods? An example from Kujukuri Plain, Japan

Tomochika Tokunaga, Mao Ouyang, Yuka Ito, Shunji Kotsuki

11:44 - 12:02 **LSUB01-009**

Geotechnical Approaches to Addressing Land Subsidence and Sinkholes in Iran

Hamed Niroumand

12:02 - 12:20 **LSUB01-010**

Characterization of land subsidence mechanisms and development of mitigation strategies for the Choushui River groundwater basin in central Taiwan

Chuen-Fa Ni, Ta-Kang Yeh, Cheng-Yu Ku

12:20 - 13:40 午餐 / Lunch

主持人：倪春發、鐘志忠

13:40 - 13:58 **LSUB01-011**

Natural and human-induced land subsidence in the delta complex north of Manila Bay, Philippines

Janneli Lea Soria, Fernando P. Siringan, Kelvin S. Rodolfo

13:58 - 14:16 **LSUB01-012**

Groundwater resource management to cope with land subsidence and climate change in Ho Chi Minh City

Quang-Khai Ha, Sarah Tweed, Duc Huy Dang

14:16 - 14:34 **LSUB01-013**

Land Subsidence and Aquifer Dynamics: Long-Term Observations Including a Period of Uplifting Deformation Trends from Northern Greece

Constantinos Loupasakis

14:34 - 14:52 **LSUB01-014**

Prevention of Land Subsidence and Effective Use of Groundwater on the Nobi Plain in Japan

Kenji Daito

14:52 - 15:10 **LSUB01-015**

Management in Post-Mining Areas: A Comprehensive Approach to Subsidence and Water-Related Challenges

Agnieszka A. Malinowska, Małgorzata Bodziony, Bartosz Stypiński, Ryszard Hejmanowski

15:10 - 15:30 交流茶會 / Tea Break

[LSUB] 地層下陷監測與防治研討會

The 3rd LAnd Subsidence induced by fluid ExtRaction 2025

主持人：洪偉嘉、王士榮

15:30 - 15:48 **LSUB01-016**

Evaluating Road Performance Under Liquefaction-Induced Deformations: Implications for Urban Land Subsidence Risk Management

Chih-Wei Lu, Yu-Feng Lin, Li-Ya Huang, Hsiu-Chen Wen, Shih-Hao Cheng, Kun-Yan Lu, Fu-Hsuan Yeh, Yu-Syuan Jhuo, I-Ping Huang

15:48 - 16:06 **LSUB01-017**

Applying a Stochastic Approach to Model and Quantify Deep Compression Induced by Shallow Groundwater Pumping

Duc-Huy Tran, Shih-Jung Wang, I-Yu Wu, Shih-Ching Wu, Cheng-Wei Lin

16:06 - 16:24 **LSUB01-018**

Investigation of Hydrogeological Models Complexity Affecting the Coupled Land Subsidence Simulation

Shih-Jung Wang, Yong-Han Yang, Duc-Huy Tran

16:24 - 16:42 **LSUB01-019**

Assessing Land Subsidence from Groundwater Extraction and Exploring Mitigation Strategies in Interacting Multi-Layer Aquifers

Gumilar Utamas Nugraha, Chuen Fa Ni, Nguyen Thi My Tien

16:42 - 17:00 **LSUB01-020**

Big Data Modeling of Groundwater-induced Subsidence

Hone-Jay Chu, Sumriti Ranjan Patra

17:00 - 17:30 移動至晚宴 / Move to Banquet

17:30 - 19:30 LSUB 晚宴 / LSUB Banquet

[OC] 2025 海洋科學年會暨國科會海洋學門成果發表

2025 Ocean Sciences Conference

OC06

Room 505a

[OC-BC] 西北太平洋藍碳整合研究計劃

Integrated Blue Carbon Research in the Northwest Pacific Ocean

主持人：陳宗岳、曾筱君

08:15 - 08:30 **OC06-001**

A Brief Tour of Global Carbon Cycle: Interconnection at the Coastal Zone

Wei-Jun Cai

08:30 - 08:45 **OC06-002**

低緯度西北太平洋顆粒有機碳來源及通量之空間變化

謝學函、吳珣涵、**Vincent Abedneko**、洪慶章

08:45 - 09:00 **OC06-003**

Invisible Sinks, Visible Impact: Rethinking Carbon Sequestration in Coastal Ecosystems

Chou Wen Chen

09:00 - 09:15 **OC06-004**

利用基礎生產力評估臺灣沿海碳匯潛力

陳宗岳

09:15 - 09:30 **OC06-005**

東沙島海草床底棲總鹼度及溶解性無機碳通量在碳封存機制的角色

范嵐楓、康恩誠、**Natividad Mariche B.**、洪慶章、施詠嚴、黃蔚人、周文臣

09:30 - 09:45 **OC06-006**

應用穩定碳同位素討論西北太平洋自然與人為二氧化碳變異

黃蔚人、高愷嶸、袁菲翎、王俊元、賴加育、**Weerathunga Veran**

09:45 - 10:00 **OC06-007**

應用高解析 O₂/Ar 觀測技術探討西北太平洋淨族群生產力之空間變異

高愷嶸、黃蔚人、**Weerathunga Veran**

10:30 - 10:45 **OC06-008**

Quantifying energy flows in marine foodwebs in the northwestern Pacific Ocean

Chih-hao Hsieh

10:45 - 11:00 **OC06-009**

Quantification of taxon-specific growth and mortality of bacterioplankton reveals carbon flow in marine microbial food webs

Feng-Hsun Chang, Ariana Chih-Hsien Liu, Yi-Hsuan Lo, Hsiao-Pei Lu, Chih-hao Hsieh

6
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June 17th Sessions

OC06

Room 505a

[OC-BC] 西北太平洋藍碳整合研究計劃**Integrated Blue Carbon Research in the Northwest Pacific Ocean**11:00 - 11:15 **OC06-010**

熱帶海草床微生物群落垂直分層與其相關轉錄體表現

鍾至青、周文臣、許瑞峯、曾筱君、詹雅帆、賀傳欣

11:15 - 11:30 **OC06-011**

Seagrass habitats regulate benthic metabolism and dissolved organic matter dynamics in coastal systems

Jian-Jhih Chen, Shu-Lun Wang, Wen-Chen Chou, Ruei-Feng Shiu, Hsiao-Chun Tseng, Tzong-Yueh Chen, Mariche B. Natividad

11:30 - 11:45 **OC06-012**

Species-Specific Differences in Seagrasses Influence Methane Emissions

Hsiao-Chun Tseng, Fu-Hsuen Lin, Agnes Sonya Meilani Lumban Gaol, Jian-Jhih Chen, Wen-Chen Chou

11:45 - 12:00 **OC06-013**

夜光蟲細胞大小與成長曲線之關聯性探討

蔡昇芳、許家華

OC06

Room 505a

[OC-P] 海洋物理**Physical Oceanography**

主持人：林幼淳

13:00 - 13:15 **OC06-014**

慣性力加強台灣灘冷水湧升機制之研究

李宏仁、何嘉穎

13:15 - 13:30 **OC06-015**

Investigate the effects of Hs gradients to wind stress within the marine atmosphere boundary layer

Yuchun Lin

13:30 - 13:45 **OC06-016**

Onshore and offshore seawater exchange off northeast Taiwan driven by the combined effects of Kuroshio intrusion and tidal currents

Zhe-Wen Zheng, Jia-Yi Lin

13:45 - 14:00 **OC06-017**

珊瑚棲息地海洋熱浪與可視化光學波長

許伯駿、Roshin P. Raj

14:00 - 14:15 **OC06-018**

The effect of input resolution for atmospheric models on storm surge simulation

Chun-Wei Lin, Tso-Ren Wu

[OC-P] 海洋物理**Physical Oceanography**14:15 - 14:30 **OC06-019**

應用深度學習於 GNSS-R 延遲都卜勒圖之風速反演

錢樺、陳銘誼、葉文豪

14:30 - 14:45 **OC06-020**

應用雷達觀測海嘯及氣象海嘯

鄭安、林立青、錢樺、張煥盟、賴堅戊、尤心瑜、鄭皓元、Pierre Flament

OC07**Room 505b****[OCYF-B] 青年論壇：海洋生物/漁業****Biological Oceanography and Marine Biology**

主持人：葉怡君

08:15 - 08:30 **OC07-001**

東沙島海草床碳匯功能之時空變化：2023 年至 2024 年初步分析

黃毓恩、塗子萱、林恩如、林佑珊

08:30 - 08:45 **OC07-002**

社會階級對眼斑海葵魚攝入微塑膠之影響

謝宛蓁、陳美琪、陳德豪

08:45 - 09:00 **OC07-003**Energetic cost of camouflage in the cuttlefish *Sepia pharaonis*

Hsin-Yu Chang, Tzu-Yen Liu, Pou-Long Kuan, Yung-Che Tseng, Pei-Ling Wang, Ming-Tsung Chung

09:00 - 09:15 **OC07-004**

印度 - 西太平洋地區開曼海星 科 (海星綱：有緣目) 生物多樣性與親緣關係

謝友銓、李欣

09:15 - 09:30 **OC07-005**

Investigating multigenerational genome-wide DNA methylation and transcriptomic responses to ocean acidification in marine medaka

Tzu-Yen Liu, Nash Tara Mikyla, Allen Joseph Patrick Garrett, Ming-Tsung Chung, Yung-Che Tseng

09:30 - 09:45 **OC07-006**

從 2024 年南台灣海洋熱浪與颱風衝擊看耐壓珊瑚在復育中的應用潛力

張育綺、藍國維、鄭庭卉、樊同雲

09:45 - 10:00 **OC07-007**

Aggressive behaviour in moray eels versus species identity: do I oust you, or do I eat you?

Jia Yi Lim, Kang Long Guan, Christine Hanna Lydia Schöenberg

OC07

Room 505b

[OCYF-B] 青年論壇：海洋生物/漁業
Biological Oceanography and Marine Biology

主持人：何珮綺

- | | |
|---------------|--|
| 10:30 - 10:45 | OC07-008
Quantifying carbon sequestration of macroalgae through net primary production in subtropical regions
Ting-Jui Wang, Jui-Sheng Chang, Tzong-Yueh Chen |
| 10:45 - 11:00 | OC07-009
Aquarium Aggression: A Case Study of Competitive Behavior in Sea Urchins
Orczy Tze Ning Wan, Yen-Huei Li, Christine Hanna Lydia Schönberg |
| 11:00 - 11:15 | OC07-010
Utilizing 3D printing technology to assist in cryopreservation
Kuan-Lin Liu, Jonathan Soo, Sujune Tsai, Zhi-Hong Wen, Chiahsin Lin |
| 11:15 - 11:30 | OC07-011
Advancing Coral Cryopreservation: A Key Step of Coral Larvae Cryorepository Network in the Coral Triangle
Kanokpron Loeslakwiboon, Sujune Tsai, Zhi-Hong Wen, Chiahsin Lin |
| 11:30 - 11:45 | OC07-012
Changes in glycan profile of <i>Breviolum psygmophilum</i> post-cryopreservation
Jade Symon Albo Binay, Hsing-Hui Li, Tsai Sujune, Zhi-Hong Wen, Chiahsin Lin |
| 11:45 - 12:00 | OC07-013
The relationship between lipid profiling, lipid levels and their impact on cryopreservation outcomes in coral embryogenesis
Federica Buttari, Sujune Tsai, Zhi-Hong Wen, Chiahsin Lin |

OC08

Room 505c

[OCGS-MG] 海洋地質/地球物理
Marine Geology & Geophysics

主持人：張詠斌

- | | |
|---------------|---|
| 08:00 - 08:15 | OC08-001
Cold bias in RI-OH SST reconstructions induced by anaerobic methanotrophic archaea
Pierrick Fenies, Sze-Ling Ho, Jens Hefter |
| 08:15 - 08:30 | OC08-002
Oceanographic control on the depth of the TEX86 signal: Insights from Plio-Pleistocene records in the Pacific Ocean
Syed Azharuddin, Sze Ling Ho, Jens Hefter, Erin McClymont, Jeroen Groenveld, Kenji Matsuzaki |

[OCGS-MG] 海洋地質/地球物理**Marine Geology & Geophysics**08:30 - 08:45 **OC08-003**

Initiation and intensification of the Oxygen Minimum Zone (OMZ) in the Arabian Sea during the early-middle Miocene

RAJ S I S PODDER, JEROEN GROENEVELD08:45 - 09:00 **OC08-004**

Ocean paleotemperature reconstruction: the good, the bad and the ugly

Sze Ling Ho09:00 - 09:15 **OC08-005**

Orbital-Scale Drivers of Eastern Equatorial Pacific Oxygen Minimum Zone Variability During the Early Pleistocene

SHRADDHA TUKARAM BAND, Arpita Biswas, Yu-Hsin Huang, Kuan-Yu Jow, Horng-Sheng Mii, Haojia Abby Ren, Chuan-Chou Shen, Jeroen Groeneveld09:15 - 09:30 **OC08-006**

Evolution of extreme events and precipitation through fluctuations in the land-to-sea transport of continental materials

Pierre Lannes, Pierrick Fenies, Sze Ling Ho, Chih-Chieh Su, Pei-Ling Wang, Min-Te Chen09:30 - 09:45 **OC08-007**

Along-slope currents driving gas bubble emissions in the northern South China Sea

Emmy T. Chang, Steven JJ Huang, Y Shao, CS Liu09:45 - 10:00 **OC08-008**

Passive Listening as a Probe: Ambient Noise Cross-Correlation in Coastal Waters

Chen-Fen Huang**[OCYF-MG] 青年論壇：海洋地質/地球物理****Marine Geology & Geophysics**

主持人：許介璋

10:30 - 10:45 **OC08-009**

Subsurface paleotemperatures revealed an eastward migration of the Kuroshio Current during the Last Glacial Maximum

Ru-Yun Tung, Yuan-Pin Chang, Pei-Ting Lee, Chuan-Chou Shen, Sze Ling Ho10:45 - 11:00 **OC08-010**

Individual foraminiferal Mg/Ca as a tracer of hydrographic changes driven by the East Asian Monsoon

Pei-Ting Lee, Sze Ling Ho, Yoshimi Kubota, Keiji Horikawa, Chuan-Chou Shen, Min-Te Chen

OC08

Room 505c

[OCYF-MG] 青年論壇：海洋地質/地球物理

Marine Geology & Geophysics

11:00 - 11:15 OC08-011

Reconstructing the OMZ in the east Pacific during the Pliocene using G. hexagonus

Yu-Hsin Huang, Shraddha Band, Nicolaas Glock, Jeroen Groeneveld

11:15 - 11:30 OC08-012

Seasonal Hydrography, Particle Fluxes and Current Observations on the Southern Continental Slope of the Taiwan Banks

陳子軒、林慧玲、林黛君、彭宗仁、林玉詩、尤柏森、方盈智

11:30 - 11:45 OC08-013

Holocene Reef Dynamics and Optimizing Large-Area Ecological Surveys: Insights from Coral Terraces in Lanyu, Taiwan

Hao-Wen Huang, Meng-Wan Yeh

OC09

Room 506

[OCYF-C] 青年論壇：海洋化學

Chemical Oceanography and Marine Chemistry

主持人：廖文軒

08:30 - 08:45 OC09-001

Dissolved Organic Matter as a Potential Nutrient Source from the Kuroshio Current to the Northern Pacific Subtropical Gyre

Yu-Chen Yen, Brandon Michael Stephens, Haojia Ren

08:45 - 09:00 OC09-002

Exploring stem-mediated greenhouse gas emissions from mangroves

Zhao-Jun Yong, Chiao-Wen Lin, Wei-Jen Lin, Tzu-Chieh Chiu, Chen-Ying Ko, Hsing-Juh Lin

09:00 - 09:15 OC09-003

桃園藻礁生態系碳排放係數評估

鍾濬宇、高語岑、黃守忠、林蔚任、林幸助

09:15 - 09:30 OC09-004

長期尺度下河口紅樹林碳收支動態變化

陳佑政、林蔚任、林幸助

09:30 - 09:45 OC09-005

尋找隱形藍碳：利用生態缸實驗探究提升海草床碳匯的新途徑

張馨巧、周文臣、陳宏瑜、范嵐楓、Natividad Mariche B.、周信佑、陳品均、戴鈺涵、王欣怡

09:45 - 10:00 OC09-006

內陸鹹水濕地中不同棲地類型碳匯能力

吳蕙君、林蔚任、林幸助

[OCYF-C] 青年論壇：海洋化學**Chemical Oceanography and Marine Chemistry**

主持人：雷漢杰

10:30 - 10:45 **OC09-007**

Seasonal Partial Pressure of Carbon Dioxide Spatiotemporal Variations Revealed by High-Density Sampling in a Tropical Lagoon

Fei-Ling Yuan, Kai-Jung Kao, Veran Weerathunga, Chia-Yu Lai, Chun-Yuan Wang, Ting-Hsuan Lin, Wen-Chen Chou, Wei-Jen Huang10:45 - 11:00 **OC09-008**

Seasonal Dynamic of Methane and Nitrous Oxide Production and Fluxes in Seagrass Meadows of Haikou, Pintung, Taiwan

Agnes Sonya Meilani Lumban Gaol, Hsiao-Chun Tseng11:00 - 11:15 **OC09-009**

沿海與海域地區乾沉降中尿素的來源解析與生地化作用

林子耀、陳宏瑜11:15 - 11:30 **OC09-010**

利用污水進行海洋鹼化實現海洋二氧化碳負排放：以和平島水資源回收中心為例

王欣怡、李冠霆、范嵐楓、周文臣11:30 - 11:45 **OC09-011**

Seagrass drives whole-ecosystem metabolism: seasonal variability in organic metabolism and carbonate dynamics and its implications for carbon sequestration

Mariche Bandibas Natividad, Jian-Jhih Chen, Hsin-Yu Chou, Wen-Chen Chou11:45 - 12:00 **OC09-012**

Enhanced vertical flux driven by microplastic-associated marine snow aggregates

Madeline Olivia, Wen-Huai Wu, An-Yi Tsai, Gwo-Ching Gong, Ruei-Feng Shiu

[GW] 第 17 屆地下水資源及水質保護研討會

2025 17th Conference on Groundwater Resources & Water Quality Protection

GW02

Room 507

[GW-01] 跨域整合架構：地下水資源管理與水質保護

Cross-Disciplinary Integration Framework: Groundwater Resource Management and Water Quality Protection

主持人：徐國錦、林宏奕

09:00 - 09:20 **GW02-001**

應用鐳同位素探討台灣東部海底淡水地下水滲流之季節變化
陳珮玟、劉雅瑄

09:20 - 09:40 **GW02-002**

Efficient Copper Removal from Industrial Wastewater Using a Multi-Soil-Layering System: A Comparative Study of Activated Carbon, Biochar, and Zeolite
Dagne Almaw Kassa, 何嘉浚, 楊博硯

09:40 - 10:00 **GW02-003**

溫度法於降雨入滲量推估之應用
張家豪、汪柏岑、蔡瑞彬

GW02

Room 507

[GW-02] 創新技術：大數據和 AI 應用地下水資源及水文地質評估及預測

Innovative Technologies: Big Data and AI Applications in Groundwater Resource and Hydrogeology Assessment and Prediction

主持人：徐國錦、林宏奕

10:30 - 10:50 **GW02-004**

Developing a Knowledge-Based Machine Learning Framework: A Case Study of Groundwater Level Forecasting in the Gaoping River Basin, Taiwan
Huei Huang Ya, Hong-Ru Lin, Shao-Yang Huang, Jet-Chau Wen

10:50 - 11:10 **GW02-005**

以機器學習建立臺北盆地與蘭陽平原淺層地下水位即時預測模型
施驊珊、林遠見、陳禹翰、顧尚真、曾華廷、王家綸、張家豪、余化龍、蔡瑞彬、黃富國、戴東霖、邱禎龍

11:10 - 11:30 **GW02-006**

Addressing Data Challenges in AI-Based Infiltration Modeling Using Physics-Based Simulations: Insights from the Zhuoshui River Basin
Hans Ghislein Reyes Marcelo, Tai-Sheng Liou

[GW-02] 創新技術：大數據和 AI 應用地下水資源及水文地質評估及預測

Innovative Technologies: Big Data and AI Applications in Groundwater Resource and Hydrogeology Assessment and Prediction

11:30 - 11:50 **GW02-007**

新型態時間序列模型在水文事件預測之潛力探索

陳俊豪、劉哲佑

主持人：陳冠宏、李奕賢

13:30 - 13:50 **GW02-008**

應用資料融合技術於淺層三維水文地質架構推估-以蘭陽平原為例

王家綸、曾華廷、余化龍、黃富國、邱禎龍、戴東霖

13:50 - 14:10 **GW02-009**

土壤液化網格化淺層地下水即時評估平臺建置與展示

陳禹翰、曾華廷、顧尚真、戴東霖、邱禎龍

14:10 - 14:30 **GW02-010**

屏東平原林邊溪區域之地下水天然補注區分級與 人工補注潛勢區位評估

林燕初、賴慈華、黃智昭、邵屏華、張良正、陳祐誠

14:30 - 14:50 **GW02-011**

應用深度學習方法建立以井測訊號為基礎之裂隙岩體透水係數推估模式—以沉積岩為例

尤資捷、許世孟

[GW-03] 地下水水質保護技術創新：污染源追蹤與水質保護

Innovations in Groundwater Quality Protection: Pollution Source Tracking and Water Quality Safeguarding

主持人：陳冠宏、李奕賢

15:30 - 15:50 **GW02-012**

Site Investigation and Mechanism Analysis of Groundwater Salinization in Jhuoshuei River Alluvial Fan, Central Taiwan

Tung-Lin Tai, Chih-Ching Kuo, Sofia Ya-Hsuan Liou

15:50 - 16:10 **GW02-013**

應用馬可夫鏈法建構異質性水文地質模型於嘉義某油品污染場址之水文模型

鄭詠心、吳翊萍、梁閎森、林舜隆

[GW-04] 地下水與氣候變遷：韌性思維與創新調適策略**Groundwater and Climate Change: Resilient Thinking and Innovative Adaptation Strategies**

主持人：陳冠宏、李奕賢

16:10 - 16:30

GW02-014

Hydrogeological supplementary investigation in the Pingtung Plain

ChiaHung Liang, JungJun Lin, NaiChin Chen, HuiYu Wen, TziHua Lai, MinHsiang Chang, ChiChao Huang

16:30 - 16:50

GW02-015

屏東平原氣象與水文型乾旱特徵與變化趨勢之研究

白宥庭、葉信富

6 月 18 日議程 June 18th Sessions

[GS] 2025 中華民國地球物理學會及中華民國地質學會年會暨學術研討會
2025 Annual Conference of Chinese Taipei Geophysical Society & Geological Society Located in Taipei

4

6 月 18 日議程

June 18th Sessions

會員大會

Room 402

12:00 - 13:00 地物學會會員大會

特別講座

13:00 - 14:00	2025【產業專業應用技術講座】 主持人：王士榮	Room 402
15:54 - 16:54	石油基金推動產學合作交流會 主持人：石油基金油氣探勘開發及技術研發計畫管理辦公室	Room 402b

GS10

Room 402a

[GS-GC1] 全球變遷

Global Change

主持人：潘惠娟

09:42 - 09:54	GS10-001 Detectability of transboundary air pollution pathway variations associated with climate change using anthropogenic aerosols Cai Ying, Irie Hitoshi, Damiani Alessandro, Itahashi Syuichi, Takemura Toshihiko, Khatri Pradeep, Michibata Takuro
09:54 - 10:06	GS10-002 Regional disparities and the role of long-range transport in global wet nitrogen deposition Mohinuddin Sekh, Jr-Chuan Huang, Yi Ying Chen
10:06 - 10:18	GS10-003 The surface hydrological climate changes in the East China Sea over the past 2000 years based on organic biomarker temperature proxies Ting-Hsuan Hsu, Min-Te Chen, Hui-Juan Pan
10:18 - 10:30	GS10-004 生物炭的環境穩定性有利於增匯減排對碳封存及氣候變遷有積極影響 陳婧、梁碧清、劉振霖
10:30 - 10:42	GS10-005 Mangrove Root Microbiomes Respond to Microplastic Stress with Functional Plastic Degradation Potential Chin-Wen Wang, Chien-Yen Chen, Gobinda Dey, Raju Kumar Sharma, Pin-Yun Lin, Md. Taharia, Shafiq Ali, Max James Fulgence

GS10

Room 402a

[GS-GC1] 全球變遷

Global Change

10:42 - 10:54 **GS10-006**

Unraveling Heavy Metal Contamination in Mangrove Ecosystem: Risk Assessment, Phytoremediation Potential, and Rhizospheric Microbial Roles
Gobinda Dey, Raju kumar Sharma, Pin Yun Lin, Chin Wen Wang, Md Taharia, Shafiqa Ali, Max James Fulgence, Chien Yen Chen

10:54 - 11:06 **GS10-007**

Unraveling the Climate and Human Impact on Surface and Subsurface Runoff Elasticity in Diverse Ethiopian Sub-basins
Girum Getachew Demeke, Jr-Chuan Huang, Yi-Ying Chen

GS10

Room 402a

[GS-GC2] 氣候變遷下的海陸交互作用觀測

Observations of Land-Sea Interactions under Climate Change

主持人：潘惠娟

11:06 - 11:18 **GS10-008**

Moist Static Energy Budget and Madden–Julian Oscillation- Induced Extreme Precipitation: Land–Ocean Contrast in the Maritime Continent
Adelina Lumbangaol, Jia-Yuh Yu

GS10

Room 402a

[GS-GP2] 工程與環境地球物理暨追思楊潔豪教授紀念專題

Engineering and Environmental Geophysics and Memorial Symposium for Prof. Yang

主持人：王子賓

14:30 - 14:42 **GS10-009**

地電阻影像法應用於地下水污染場址之回顧與展望
王子賓

14:42 - 14:54 **GS10-010**

地球物理探勘在臺灣土壤地下水污染調查整治之實務精進應用
董天行、王子賓

14:54 - 15:06 **GS10-011**

透地雷達應用於道路坍塌之案例探討
陳宜傑、劉興昌、董天行

15:06 - 15:18 **GS10-012**

運用透地雷達法於陽明山大屯池滲漏之探測與修補後之監測
游峻一、李銘哲、顏一勤、葛岳淵

[GS-GP2] 工程與環境地球物理暨追思楊潔豪教授紀念專題
Engineering and Environmental Geophysics and Memorial Symposium for Prof. Yang

15:18 - 15:30 **GS10-013**

CO₂ 地質封存監測技術生命週期整合應用評估
 郭綉娟、陳建志、董天行、王子賓、何信緯

[GS-S3] 環境與噪聲地震學
Environmental and Ambient Noise Seismology

主持人：陳映年

15:42 - 15:54 **GS10-014**

On the Accuracy of Traveltime Measurements in Noise Interferometry: A New Approach Using Higher-Order Cross-Correlation within a Plane Wave Framework
Ying-Nien Chen

15:54 - 16:06 **GS10-015**

Source Characterization of Microseismic Noise in the middle of the Pacific Ocean using NoMelt Ocean Bottom Seismometer Experiment
LALIT ARYA, SHU HUEI HUNG

16:06 - 16:18 **GS10-016**

Infragravity Wave Observations in the Pacific Ocean Using Multiple Ocean-Bottom-Seismometer Arrays
Chen Kai-Xun, gung Yuancheng

16:18 - 16:30 **GS10-017**

Ambient-noise tomography of northern Ryukyu constrained by OBS data and the development of the Okinawa Trough
Ban-Yuan Kuo, Kai-Xun Chen, Shu-Chuan Lin

16:30 - 16:42 **GS10-018**

Unraveling Geological Complexity in Southern Taiwan Through Eikonal Tomography and Dense Seismic Arrays
Chun-Fu Liao, Ying-Nien Chen, Yuancheng Gung

GS11

Room 402b

[GS-EM2] 礦物及岩石物理

Mineral and Petro-Physics

主持人：龔慧貞

10:18 - 10:30 **GS11-001**

以高壓鑽石砧及雷射加熱精準量測地核鐵鎳矽合金的熱傳導率

陳朝志、張仁韋、曹懿麒、謝文斌

10:30 - 10:42 **GS11-002**

Thermal Conductivity of Iron Under High Pressure and Temperature: Implications for Mercury's Core and Dynamo Evolution

Yi-Ting Chiang, Wen-Pin Hsieh, Yi-Chi Tsao, Chao-Chih Chen, Jun-Wei Chang

10:42 - 10:54 **GS11-003**

Reduced thermal conductivity of hydrous aluminous silica and calcium ferrite-type phase promote water transportation to Earth's deep mantle

Wen-Pin Hsieh, Frédéric Deschamps, Yi-Chi Tsao, Jen-Wei Chang

10:54 - 11:06 **GS11-004**

石榴子石對於地球內部熱演化之影響

吳珣霖、謝文斌

11:06 - 11:18 **GS11-005**

單晶 CaSnO_3 彈性模量之決定：整合布里淵散射與 DFT 模擬

龔慧貞、花天享、Wenhao Su

GS11

Room 402b

[GS-EM1] 礦物及岩石學

Mineralogy and Petrology

主持人：黃克峻

14:30 - 14:42 **GS11-006**

金瓜石硫砷銅礦、呂宋礦和黃鐵礦金 - 銀碲化物和銅 - 鉍硫化物包裹體之電子顯微組織與可能生成機制

莊祐濬、江威德

14:42 - 14:54 **GS11-007**

Microtextures of Bi-Au melt inclusions and droplets in pyrrhotite-dominant chimney fragments from the Geolin Mounds hydrothermal field offshore NE Taiwan: Implications for gold scavenging by bismuth melts in hydrothermal systems

Ko-Chun Huang, Wei-Teh Jiang

14:54 - 15:06 **GS11-008**

金屬奈米顆粒的局域表面電漿共振效應：奈米尺度礦物著色新機制的表徵、模擬與再現

吳琮王、宋聖榮、陳文山、林文、曾紹欽

[GS-EM1] 礦物及岩石學**Mineralogy and Petrology**15:06 - 15:18 **GS11-009**

同步輻射奈米顯微術在發光礦物的譜學研究

吳琮王、宋聖榮、陳文山、林文、林碧軒

15:18 - 15:30 **GS11-010**

臺灣中部橫貫公路變質泥岩磁黃鐵礦顯微組織對其生成及轉變之啟示

吳怡萱、江威德

15:30 - 15:42 **GS11-011**

關仔嶺地區不同流體對邊坡穩定之影響

許嘉珍、陳燕華

GS12**Room 402c****[GS-S2] 工程地震學****Engineering Seismology**

主持人：郭俊翔、林哲民

09:42 - 09:54 **GS12-001**

A New Empirical Probability Model for Surface Faulting Utilizing Width-Rupture Ratio for Crustal Earthquakes

Jyun-Yan Huang, Norman A Abrahamson

09:54 - 10:06 **GS12-002**

Development of an Ergodic Ground Motion Model for Estimating 5% Damped Spectral Acceleration in Northern Vietnam

Bang Van Phung, Hsiang Chun Kuo, Shouh Bor Huang, Nghia Cong Nguyen, Long Vinh Ha

10:06 - 10:18 **GS12-003**

Probabilistic seismic hazard assessment for Taiwan: TEM PSHA2025

Jia CianGao

10:18 - 10:30 **GS12-004**

地表斷層錯動量觀測與評估間之合宜性探討

王允佑、張毓文、劉勛仁、范秋屏

10:30 - 10:42 **GS12-005**

MiDAS Vertical Arrays – Investigation and Observation

Kuo Chun-Hsiang, Chang Yuan-Huan, Lin Yen-Yu

10:42 - 10:54 **GS12-006**

動力分析用垂直向輸入地震歷時挑選之探討

劉勛仁、張毓文

10:54 - 11:06 **GS12-007**

臺南台地高樓層建物頻譜反應與震動模式之探討

葉宥霆、吳泓昱、姚昭智

GS12

Room 402c

[GS-S2] 工程地震學

Engineering Seismology

11:06 - 11:18

GS12-008

2024 年 0403 花蓮地震序列於東華大學井下地震儀觀測到之場址特性與非線性反應

林哲民、郭俊翔、謝宏灝、王允佑、黃雋彥、張文彥

GS12

Room 402c

[GS-S1] 一般地震學研究

General Seismology

主持人：曾泰琳

14:30 - 14:42

GS12-009

An annual report of Real-Time Moment Tensor Monitoring System

Ting-Yu Liu, Shiann-Jong Lee

14:42 - 14:54

GS12-010

Adjoint Tomography of Taiwan: Enhanced Seismic Imaging through Full-waveform Inversion

Hung-Yu Yen, Hsin-Hua Huang

14:54 - 15:06

GS12-011

Rayleigh wave phase velocity maps in Eastern Indonesia

Puji Ariyanto, Kai Xun Chen, Frédéric Deschamps, Ban Yuan Kuo, Maryline Le Béon

15:06 - 15:18

GS12-012

Stress inversion of focal mechanism solutions in the Philippine island arc using k-means clustering

John Emmanuel Sevilla Fungo, Ruey-Juin Rau

15:18 - 15:30

GS12-013

利用歷史地震探討臺灣的孕震構造-臺灣地震帶專書發表

楊清淵、柯明淳、陳文山、吳逸民、楊耿明、洪嘉佳、葉柏逸、柯孝勳

15:30 - 15:42

GS12-014

Employing Bayes' Theorem to Estimate the Effect of Precursor: a Case Study of Japanese Folklore linking Deep-Sea Fish Appearance with Earthquakes

Ting-Chung Huang, Yih-Min Wu

15:42 - 15:54

GS12-015

從觀測到預警：以震度分布、強度與持續時間訓練生成式 AI 預警模型

陳達毅

[GS-V6] 從火山噴發到地熱開發：大屯火山活動的時空演變特徵、潛能與風險

From Volcanic Eruption to Geothermal Development: Spatiotemporal Evolution Characteristics, Potential and Risks of Tatun Volcanic Activity

主持人：賴昱銘、盧乙嘉

08:54 - 09:18 **GS13-001**

Characteristics of Acid Hydrothermal Alteration in the Northeastern Part of Tatun Volcano Group

Sachihiro Taguchi, Mizuki Fujisaki, Fura Takemoto, Kentaro Abe, Hitoshi Chiba, Yi-Chia Lu, Ting-Jui Song, Yu-Jie Lin, Sheng-Rong Song, Kotaro Yonezu, Koichiro Watanabe, Po-Tsun Li, Chi-Hsuan Chen, Jiin-Fa Lee

09:18 - 09:30 **GS13-002**

Reconstructing geothermal geological models by combining geophysical, geochemical and geological studies in Tatun volcanoes area, Northern Taiwan
Jian-Cheng Lee, Chien-Chih Chen, Hildeaki Hase, Cheng-Horng Lin, Hsin-Hua Huang, Sheng-Rong Song, Yi-Chia Lu, En-Chao Yeh, Li-Wei Kuo, Chung-Hsiang Mu, Gong-Ruei Ho, Sze-Ting Kuo, Yue-Gau Chen

09:30 - 09:42 **GS13-003**

大屯山高溫中性流體酸化探討

盧乙嘉、宋庭瑞、劉家均、梁玉欣、朱蓉瑄、宋聖榮

09:42 - 09:54 **GS13-004**

大屯山馬槽井(CGS-MT-01)溫度剖面研究

朱正文、盧乙嘉、沈建豪、李沅銘、江俞萱、梁閔森

09:54 - 10:06 **GS13-005**

大屯火山地下速度構造的時空間變化

蒲新杰、林正洪、賴雅娟、史旻弘、李曉芬

10:06 - 10:18 **GS13-006**

大屯火山群的長期地球化學監測：來自連續土壤氣體、火山噴氣與溫泉觀測的解析

李曉芬、賴雅娟、林正洪、史旻宏、洪國騰

10:30 - 10:42 **GS13-007**

Natural CO₂ diffuse degassing from the Tatun Volcano Group, Northern Taiwan

Ching-Chou Fu, Kuo-Hang Chen, Kuo-Wei Wu, Pei-Ling Wang, Li-Hung Lin, Vivek Walia

10:42 - 10:54 **GS13-008**

大屯火山噴泥事件初探

陳昇平、賴昱銘、林毓潔、李曉芬、蕭秀璟、凌韻雅、郭京達

GS13

Room 403

[GS-V6] 從火山噴發到地熱開發：大屯火山活動的時空演變特徵、潛能與風險

From Volcanic Eruption to Geothermal Development: Spatiotemporal Evolution Characteristics, Potential and Risks of Tatun Volcanic Activity

10:54 - 11:06 **GS13-009**

Late quaternary eruption history of the Tatun Volcano Group (Taiwan) – new constraints from zircon double-dating and $^{40}\text{Ar}/^{39}\text{Ar}$ dating of lava flows in Mt. Shamao

Karl Dimarucut Jabagat, Yuan-Hsi Lee, Martin Danišík, Daniel Miggins, Mei-Fei Chu, Yu-Ming Lai, Yun-Chieh Lo, Po-Tsun Lee, Cheng-Horng Lin

11:06 - 11:18 **GS13-010**

大屯火山群蒸氣噴發火山灰的井下及地表石英鋁同位素分析比對：驗證 A2C 模擬之風場結果

林毓潔、賴昱銘、童譯、劉怡偉、宋聖榮

11:18 - 11:30 **GS13-011**

大屯火山群火山地形之定量化探討

郭京達、賴昱銘、Kerry Sieh

11:30 - 11:42 **GS13-012**

Eruptive histories of the Eastern Tatun Volcano Group, Taiwan, resolved by ^{40}Ar - ^{39}Ar and zircon double-dating (ZDD) of lava flows

Julien Pi, Yuan-Hsi Lee, Karl Dimarucut Jabagat, Daniel Miggins, Martin Danišík, Mei-Fei Chu, Yu-Ming Lai, Yun-Chieh Lo, Po-Tsun Lee, Cheng-Horng Lin

GS13

Room 403

[GS-V2] 火山學

Volcanology

主持人：賴昱銘、盧乙嘉

13:30 - 13:42 **GS13-013**

The Past Behavior of the Tatun Volcanic Group: Key to Its Future Behavior and Hazards

Kerry Sieh

[GS-V6] 從火山噴發到地熱開發：大屯火山活動的時空演變特徵、潛能與風險

From Volcanic Eruption to Geothermal Development: Spatiotemporal Evolution Characteristics, Potential and Risks of Tatun Volcanic Activity

主持人：賴昱銘、盧乙嘉

13:42 - 13:54 **GS13-014**

Evolution of the Songshan complex from geomorphological mapping, 40Ar-39Ar dating, petrology and geochemistry

Shih-Jui Lin, Sheng-Yu Li, Kerry Sieh, Brian Jicha, Kwan-Nang Pang, Truong Tai Nguyen, Hao-Yang Lee, Yoshiyuki Iizuka

13:54 - 14:06 **GS13-015**

Unraveling eruptive history and magmatic evolution of the Huangzuei complex through 3D geomorphological mapping, 40Ar/39Ar dating and geochemistry

WeiChe Li, Kerry Sieh, Yu Wang, Brian Jicha, Kwan-Nang Pang, Truong Tai Nguyen, Yu-Chang Chan

14:06 - 14:18 **GS13-016**

Thermobarometric Constraints on the Formation of Major Eruptive Phases of the Tatun Volcanic Group

Tai Truong Nguyen, Kwan-Nang Pang, Kerry Sieh, Brian Jicha, Yu-Ming Lai, Wei-Che Li, Welson Sheng-Yu Li, Shrek Shih-Jui Lin, Huai-Yu Tang, Hao-Yang Lee, Yoshiyuki Iizuka

14:18 - 14:30 **GS13-017**

Volcanic history of Shamao complex: One of the youngest volcanic events in the late Pleistocene of Tatun Volcano Group, northern Taiwan.

Huai-Yu Tang, Kerry Sieh, Sheng-Rong Song, Yu-Ming Lai, Brian Jicha

[GS-SG1] 文化資產保存中的地質科學

Geoscience for Culture Heritage Conservation

主持人：林秋婷

09:06 - 09:18 **GS14-001**

銅質文物材質及其次生礦物的非破壞性檢測
方建能

09:18 - 09:30 **GS14-002**

臺灣的岩礦標本之科學文化價值及保存
黃克峻

09:30 - 09:42 **GS14-003**

臺灣本業敷瓦的文化資產價值及材料特性分析
林秋婷、許勝發、謝以士、陳君榮

[GS-SG1] 文化資產保存中的地質科學**Geoscience for Culture Heritage Conservation**09:42 - 09:54 **GS14-004**

Racolyte：自行研發的礦物拉曼光譜比對系統

黃旭毅、陳惠芬、黃怡陵、李毓和

09:54 - 10:06 **GS14-005**

營埔遺址石刀材質分析與產地推測-談新石器晚期大肚溪流域族群關係

李作婷

10:06 - 10:18 **GS14-006**

結合文史田野調查再探 1935 年新竹台中大地震的致災因素及地震文化資產保存

徐毅振

[GS-SG2] 地質保育：地質科學與社會參與的橋樑**Geoconservation: a bridge between geoscience and social engagement**

主持人：鍾令和、紀權育

10:30 - 10:42 **GS14-007**

921 地震地質遺跡之監測與保存

鍾令和、林楠勝、陳柏霖、Ivo Baroň、陳毅青、董家鈞

10:42 - 10:54 **GS14-008**

Taiwan Rock Guy: 用短片當作開啟認識台灣地質的一把鑰匙

Taiwan Rock Guy: Using Short Form Content to Promote Taiwan's Geology

James David Kelloway

10:54 - 11:06 **GS14-009**

大甲溪谷關段地質景觀與地熱資源之綜合評估-社會地質學與跨域協作的視角

郭麗秋、陳柔妃、羅偉、尤琇琳

11:06 - 11:18 **GS14-010**

北臺灣煤礦業文化路徑的推動與民眾參與之經驗

周德清

11:18 - 11:30 **GS14-011**

礦區的地質保育與社群參與：以礦山環境資源盤點計畫為例

黃家俊

11:30 - 11:42 **GS14-012**

掬一把海中的眼淚 - 轉化浮石障礙為天賜恩典

張柏垣、曾美云、胡憲倫、余炳盛

11:42 - 11:54 **GS14-013**

地質保育：地質科學與社會參與的橋樑

紀權育、黃家俊

[GS-SG2] 地質保育：地質科學與社會參與的橋樑**Geoconservation: a bridge between geoscience and social engagement**

13:30 - 13:42	GS14-014 岩石喚起的地方記憶：臺東市富岡社區的「在地創生」 紀權育
13:42 - 13:54	GS14-015 地質法配套之地質資料蒐集填報系統建構與數位治理探析 鄭文昕、張閔翔、石同生
13:54 - 14:06	GS14-016 自然律及法律觀點下的地質敏感區 許晉璋、劉彥求、盧詩丁、林燕慧
14:06 - 14:18	GS14-017 活動斷層地質敏感區基地地質調查及地質安全評估案例研析 林燕慧、劉彥求、陳柏村
14:18 - 14:30	GS14-018 活動斷層地質敏感區劃定現況與展望 劉彥求、周稟珊、林燕慧
14:30 - 14:42	GS14-019 活動斷層地質敏感區（F0026 利吉斷層）之劃設 梁勝雄、劉彥求、陳盈璇、黃琨哲、王怡方、黃志遠、張筠、鄭智仁、林揚閔、邵昀霆、潘乙喬、林錫宏
14:42 - 14:54	GS14-020 坡地的知識與風險：屏東來義鄉排灣族地景實踐與災害治理交織之探討 Tjuku Ruljigaljig, 許錕安, 王凱倫, 歐伯恩

[GS-ST2] 第四紀地質學與考古地質學**Quaternary Geology and Archaeogeology**

主持人：汪良奇

15:18 - 15:30	GS14-021 以花粉紀錄重建的臺灣中部全新世環境史 葉宛鑫、汪良奇
15:30 - 15:42	GS14-022 結合多重沉積指標重建臺灣東北部山區全新世水文氣候變遷 詹士靈、汪良奇、Ludvig Löwemark
15:42 - 15:54	GS14-023 以姑仔崙山濕地多指標紀錄探討過去 1630 年來南臺灣氣候與環境變化 李冠樺、汪良奇

GS14

Room 500

[GS-ST2] 第四紀地質學與考古地質學

Quaternary Geology and Archaeogeology

15:54 - 16:06 **GS14-024**

古代社會韌性與環境適應—以兩千年前的 Blihun 漢本遺址為例
劉益昌、劉俊昱

GS15

Room 502

[GS-NH2] 地震災害/一般地質災害

Seismic Hazard / General Geologic Hazard

主持人：詹忠翰、王昱

13:30 - 13:42 **GS15-001**

Earthquake Damages: Controlling Factors and Hazard Assessment
Young-Seog KIM, Kwangmin JIN, Jin-Hyuk CHOI, Taehyeong KIM

13:42 - 13:54 **GS15-002**

Insights from the 2025 M7.7 Mandalay Earthquake and Their Application to Seismic Hazard Modeling
Chung-Han Chan, Yuan-Kai Chang, Myo Thant

13:54 - 14:06 **GS15-003**

Pseudo-dynamic Source Modeling with 1-Point and 2-Point Statistics of Earthquake Source Parameters for Physics-based Ground Motion Simulation
Seok Goo Song

14:06 - 14:18 **GS15-004**

Spatiotemporal distribution of seismicity and perturbation by moderate/large earthquakes in a tectonically active area and implications on seismic hazards mitigation: a case study in SW Taiwan
Hue Anh Mai, Jian-Cheng Lee, Chung-Han Chan

14:18 - 14:30 **GS15-005**

Rapid macroseismic assessment in the 2025 Mw 7.7 Sagaing earthquake using witness accounts from social media
Yu Wang, Eimhonenathar Myo

14:30 - 14:42 **GS15-006**

顯著地震事件引致易液化土層孔隙水壓激發之初步研究
王金山、譚志豪、蘇泰維、邱禎龍、盧詩丁、陳勉銘

14:54 - 15:06 **GS15-007**

臺灣西南部因泥體構造活動導致之複合式地質災害
景國恩、陳松春、Ivo Baroň、饒瑞鈞、Yogendra Sharma

15:06 - 15:18 **GS15-008**

利用微地動之方向性共振特徵分析臺灣西南部泥岩區之變形模式
饒瑞鈞、吳澄峰、林廷宇

[GS-NH2] 地震災害/一般地質災害**Seismic Hazard / General Geologic Hazard**15:18 - 15:30 **GS15-009**

恆春西台地泥貫入體特徵

陳松春、景國恩、林燕初、林殿順

15:30 - 15:42 **GS15-010**

Mapping the Mud Diatreme Range in the NKUST Region Using Microtremor Techniques

Jyun-Yan Huang, Che-Min Lin, Chun-Hsiang Kuo

15:42 - 15:54 **GS15-011**Micro-earthquakes Induce Fumarole CO₂ Emissions: A Case Study from Taiwan Tatun Volcano Group

Pallab Roy, Ching-Chou Fu, Mao-Chang Liang

15:54 - 16:06 **GS15-012**

A Comprehensive Review of the Environmental and Hydrological Consequences of Large H.E.P Dam Projects in Taiwan

Max James Fulgence, Chien Yen Chen, Felix Mtalo, Gobinda Dey, Raju Kumar Sharma, Chin Wen Wang, Pin Yun Lin, Shafiq Ali

[GS-ER] 地熱能源、碳封存與地質處置場址調查**Survey of Geothermal Energy, Carbon Storage, Geological Disposal Sites**

主持人：丁禕、郭家瑋

13:30 - 13:42 **GS16-001**

台灣西北部二氧化碳封存潛能與長期行為之數值模擬研究

郭家瑋、孔慶恩、楊昀蓁、郭婉如

13:42 - 13:54 **GS16-002**

Path to SDGs: Cases in balancing geological resources and environmental protection

Chris Wang

13:54 - 14:06 **GS16-003**

以台西盆地進行二氧化碳地質封存模擬之案例研究

簡偉駿、邱一夫、吳禮浩、謝寬穎、施宇鴻

14:06 - 14:18 **GS16-004**

非彈性應變回復法現地應力評估的統計分析與精進

蔡維倫、葉恩肇

14:18 - 14:30 **GS16-005**

放射性核種於裂隙水流與母岩基質擴散之行為探討

梁書嚴、李在平、沈如妍、莊伯禹、柯建仲

[GS-ER] 地熱能源、碳封存與地質處置場址調查**Survey of Geothermal Energy, Carbon Storage, Geological Disposal Sites**

14:30 - 14:42	GS16-006 Applications of Modern Borehole Logging Technologies in Geothermal Reservoir Exploration Hung-Yu Wu, Chen Wang, Bing-Yi Zhuang, Yuki Maehara
14:42 - 14:54	GS16-007 以地表構造線型與裂隙活化趨勢探討臺中谷關地熱潛能 劉品翔、葉恩肇、陳柔妃
14:54 - 15:06	GS16-008 地熱儲集層數值模型初探-以臺東紅葉地區為例 黃淞洋、林朝彥、Angus Yeh、John O'Sullivan、謝佩珊、董倫道、郭泰融、林錫宏、陳棋炫、鄭中崑
15:18 - 15:30	GS16-009 沉積岩地熱場址地下溫度估算：以台南關子嶺溫泉為例 鄭宇晴、張頌平、陳建志、葉冠甫、楊耿明、魏聲焜
15:30 - 15:42	GS16-010 利用數值模擬建構並分析關子嶺地區地熱儲集層位態 施松呈、吳泓昱
15:42 - 15:54	GS16-011 臺東霧鹿地區地熱地質探勘 謝佩珊、董倫道、Semih Zaman、黃淞洋、衣德成、郭泰融、溫心怡、林朝彥、張郁敬、錢正明、林錫宏、陳棋炫、鄭中崑
15:54 - 16:06	GS16-012 地熱探勘階段地質調查作業項目實務探討 丁禕、江協堂、許鈞傑、陸挽中、江品萱、林錫宏、陳勉銘
16:06 - 16:18	GS16-013 地熱開發-地質調查與鑽探工程的協同作業與優化 林義凱
16:18 - 16:30	GS16-014 台灣國際地熱論壇對地熱能源政策的影響 王守誠、李昭興、陳雪梨、許心瑀

[SS] 2025 全國太空探索學生成果發表會

2025 Student Space Exploration Exhibition

SS01

Room 404

[SEE] 太空探索成果發表會

Space Exploration Exhibition

主持人：朱延祥

08:30 - 08:45	SS01-001 A Simulation Study on the Solar-Wind Interactions with the Lunar Magnetic Anomalies Shu-Hua Lai, Ya-Hui Yang, Kaiti Wang
08:45 - 09:00	SS01-002 Shaping the Future of Space Observations: Strategic Plans for the Space Optics Lab Chengling Kuo, Lai Bing-Chen, Wen-Qian Chang, Li Pei-Yuan, Lai Yan-Mou
09:00 - 09:15	SS01-003 The Deep Space Radiation Probe: Development and First Results from a First Lunar Science Payload for Space Environment Studies and Capacity Building Loren Cheewei Chang, Yi-Hsuan Chou, Chieh Lung, Tzu-Wei Hung, Shih-Pin Lee, Yu-Hsiu Tien, Yi-Chung Chiu, Jann-Yenq Liu, Tung-Yuan Hsiao
09:15 - 09:30	SS01-004 Seasonal-longitudinal variability of equatorial plasma bubbles observed by FS7/COSMIC2 Lung-Chih Tsai, Shin-Yi Su
09:30 - 09:45	SS01-005 The impact of re-entering space debris on the ionosphere Chiu Yi-Chung, Liu Jann-Yenq, Chang Loren
09:45 - 10:00	SS01-006 Roles of Low-Cost Portable Instruments in Scientific Discovery Cissi Ying-tsen Lin, Chung-yu Shih, Yi-ting Chen, Letta Wang, Wen Chun Chen
10:30 - 10:45	SS01-007 Ionospheric and Plasmaspheric Response from 2024 Mother's Day Geomagnetic Storm CHI-YEN Lin, Jann-Yenq Liu, Charles Lin
10:45 - 11:00	SS01-008 Characterizing Successive Solar Flares in AR12860 Ya-Hui Yang, Cheng-Ying Chiang, Ting-Hsuan Hung
11:00 - 11:15	SS01-009 Co-seismic Ionosphere Disturbances of CW-HF Doppler Shifts Triggered by the 18 September 2022 M6.8 Taitung Earthquake Jann-Yenq Liu, Yao-Chun Chen, Tzu-Hsun Kao
11:30 - 11:30	SS01-010 A magnetic pressure difference rule on moving bipolar pores Chia-Hsien Lin, Merlin M. Mendoza

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June 18th Sessions

[AS-U] 大氣科學研究生研討會**Atmospheric Sciences Graduate Seminar****AS-U01****Room 501****[AS-P1] 博士班不分領域****PhD Section**

主持人：梁禹喬、王儷樵、蔡嘉倫、鍾高陞、蘇世顥、陳毅軒

08:20 - 08:28 **AS-U01-001**

The Dependence of Tropical Cyclone Seed Genesis on Convection Aggregation Stages

Shao-Yu Tseng, Kuan-Yu Lu, Chien-Ming Wu, Wei-Ting Chen08:28 - 08:36 **AS-U01-002**

Impact of Diurnal Temperature and Relative Humidity Hysteresis on Atmospheric Dryness in Changing Climates

Ching-Hung Shih, Yi-Shin Jang, Tzu-Ying Yang, Cho-Ying Huang, Jehn-Yih Juang, Min-Hui Lo08:36 - 08:44 **AS-U01-003**

The Size Change of Tropical Cyclone Hinnamnor (2022) Caused by Merging with a Tropical Depression

Mao-Cheng Li, Ming-Jen Yang08:44 - 08:52 **AS-U01-004**

How terrain shapes precipitation patterns in a northeasterly monsoon environment in Taiwan?

Huai-Yi Huang, Chien-Ming Wu08:52 - 09:00 **AS-U01-005**

The Effects of Taiwan Terrain on a Squall Line during TAHOPE IOP3

Chiu-Ling Liao, Mng-Jen Yang09:00 - 09:08 **AS-U01-006**

The Convective Upscale Evolution of Orographically-Locked Diurnal Convection from an Energy Perspective using Large-Eddy Simulations

Yu-Hsiu Wang, Wei-Ting Chen, Chien-Ming Wu09:08 - 09:16 **AS-U01-007**

Precipitation Efficiency and Microphysical Characteristics of Tropical Cyclones across Seasonal Phases in the North Indian Ocean

Surya Pramod Jalakam, Pay-Liam Lin, Wei-Yu Chang, Balaji Kumar Seela, Jayalakshmi Janapati09:16 - 09:24 **AS-U01-008**

The role of convection-circulation coupling in expediting South Asian monsoon onset: Insights from SP-CAM

Yung-Jen Chen, Ding-Rong Wu, Yen-Ting Hwang, Wei-Ting Chen, Chien-Ming Wu

[AS-P1] 博士班不分領域**PhD Section**

09:24 - 09:32	AS-U01-009 Irreversibility of the Hydrological Cycle in the Amazon Basin in Response to CO ₂ Removal Jie Hsu, Min-Hui Lo
09:32 - 09:40	AS-U01-010 Cold Pool Interactions and Their Role in Modulating Convection over Complex Terrain Po-Yen Chen, Chien-Ming Wu
09:40 - 09:48	AS-U01-011 Beyond EOF: Mesoscale climate pattern extraction for bistable climate regions Kontsevich George, Kai-Chih Tseng, Ludvig Löwemark
09:48 - 09:56	AS-U01-012 Advantages of GSMaP Data for Multi-Timescale Precipitation Estimation in Luzon Cheng-An Lee, Wan-Ru Huang
09:56 - 10:04	AS-U01-013 利用 WRF-CMAQ 模式與卷積神經網路建構 PM2.5 濃度預測模型 李怡茹、鄭芳怡
10:04 - 10:12	AS-U01-014 Machine Learning-Based Calibration of Storm Tracker Radiosonde Data: Application TACOCO Field Campaign Chiao-Wei Chang
10:12 - 10:20	AS-U01-015 Characteristics of Convection Initiation under Complex Terrain in Taiwan: A Semi-Idealized WRF Experiment Ying-Jhang Wu, Ming-Jen Yang
10:30 - 10:38	AS-U01-016 The Role of Convection Aggregation in the Abrupt Onset of the South Asian Summer Monsoon: Insights from SP-CAM Ding-Rong Wu, Yung-Jen Chen, Wei-Ting Chen, Chien-Ming Wu, Yen-Ting Hwang, Kuan-Ting Kuo
10:38 - 10:46	AS-U01-017 Learning Subgrid Cold Pool Behavior via U-Net: Bridging Large Eddy Simulations and Storm-Resolving Models Yi Chang Chen, Chien Ming Wu
10:46 - 10:54	AS-U01-018 低層噴流對梅雨鋒面移動影響的數值模擬研究 黃牧群、林沛練

AS-U01

Room 501

[AS-P1] 博士班不分領域

PhD Section

- | | |
|---------------|---|
| 10:54 - 11:02 | AS-U01-019
Impact of Climate Change on Consecutive Dry Days in Taiwan
Amba Shalishe Shanka, Yi-Ying Chen, Chao-An Chen, Yuei-An Liou |
| 11:02 - 11:10 | AS-U01-020
Modulation of Orographically-Locked Diurnal Convection by Land Surface Characteristics in Taiwan
Yu-Hung Chang, Wei-Ting Chen, Chien-Ming Wu, Yi-Hung Kuo, Jin-De Huang |
| 11:00 - 11:18 | AS-U01-021
Exploring Climate Variability and Soil Moisture Dynamics to Refine Drought Quantification in East Asia Monsoon Regions
Szu-Ying Lin, Wan-Ling Tseng, Yi-Chi Wang, Min-Hui Lo |
| 11:18 - 11:26 | AS-U01-022
Evaluating Nitrate Formation Pathways in Taichung, Taiwan: A Case Study Using the Master Chemical Mechanism
Ting-Yu Chiang, Charles C.-K Chou, Jen-Ping Chen |

AS-U01

Room 501

[AS-M2] 碩士班天氣動力領域

Masters Weather Dynamic

主持人：梁禹喬、王儷樵、蔡嘉倫、鍾高陞、蘇世顥、陳毅軒

- | | |
|---------------|---|
| 11:26 - 11:34 | AS-U01-023
應用高時間解析度降雨資料提升臺灣淹水模擬準確性
林芸安、鍾高陞、許永佳 |
| 11:34 - 11:42 | AS-U01-024
A Quasi-Linear Convective System during the TAHOPE SOP 4: Convection Characteristics and Evolution from the Doppler Radar Observational Analysis
Ming-Jen Yang, Yu Ming Liu, Wei-Kuo Soong |
| 11:42 - 11:50 | AS-U01-025
軒嵐諾颱風 (2022) V 字型路徑轉折成因之研究
陳予禮、簡芳菁 |
| 11:50 - 11:58 | AS-U01-026
宜蘭冬季降水低層環流特性：系集模擬與多元觀測整合分析
吳倚彤、鍾高陞 |
| 13:00 - 13:08 | AS-U01-027
Recent Trends of Tropical Cyclone Precipitation over the Northwest Pacific
POU I LEI, Cheng-Ku Yu, Che-Yu Lin |

[AS-M2] 碩士班天氣動力領域**Masters Weather Dynamic**

13:08 - 13:16	AS-U01-028 Investigating the Effects of Ocean Temperature and Salinity on Tropical Cyclone Evolution Bo-Jhih Hsiao, Chun-Chieh Wu
13:16 - 13:24	AS-U01-029 The Relation between Tropical Cyclone Structure Evolution and Intensity under Moderate Vertical Wind Shear David Tao, Chun-Chieh Wu
13:24 - 13:32	AS-U01-030 TAHOPE IOP3 中水氣對融化層厚度和降水的影響 胥詠蕙、林沛練、張偉裕
13:32 - 13:40	AS-U01-031 Impact of Convective-scale Ensemble Data Assimilation with Cartesian Radar Superobservation and MPD Water Vapor Profile on Afternoon Convection Prediction Over Northern Taiwan Yu-Wei Tseng, Shu-Chih Yang, Kao-Shen Chung, Wen-Chau Lee
13:40 - 13:48	AS-U01-032 以四維變分同化分析系統探討 2022 年 TAHOPE IOP#1 強降雨事件之對流胞結構特徵及其降雨機制 黃皓宇、廖宇慶
13:48 - 13:56	AS-U01-033 利用雷達反演、系集敏感度與分群法探討沿海強降雨事件之機制 楊世楷、鍾高陞
13:56 - 14:04	AS-U01-034 線狀中尺度對流系統的三維風場反演之驗證與動力特徵分析: 2022 年 TAHOPE IOP3 個案 蘇琦竣、張偉裕、廖宇慶
14:04 - 14:12	AS-U01-035 季內振盪對臺灣梅雨鋒面的影響 莊愷恩、曾莉珊
14:12 - 14:20	AS-U01-036 台灣冰雹事件之環境特徵與三個選取個案之模擬研究 黃凱揚、王重傑
14:20 - 14:28	AS-U01-037 A Comparison of Two Meiyu Front Cases during TAHOPE 2022: Exploring the Physical Mechanisms for the Differences in Precipitation Features Pin-Rui Zhu, Ming-Jen Yang

[AS-M1] 碩士班氣候動力領域**Masters Climate Dynamic**

主持人：梁禹喬、王儷樵、蔡嘉倫、鍾高陞、蘇世顥、陳毅軒

14:28 - 14:36 **AS-U01-038**

Linking the Pacific Meridional Mode to Decadal Heatwave Prediction in Taiwan and East Asia

Chieh-Ting Tsai, Yi-Chi Wang, Wan-Ling Tseng

14:36 - 14:44 **AS-U01-039**

Next-Generation Adaptive Convection-circulation Coupling Framework (NextACC)

Chin-Wei Hsieh, Chien-Ming Wu

14:44 - 14:52 **AS-U01-040**

Characteristics of Tropical Cloud Regimes and Their Associated Radiative Effects from CloudSat/CALIPSO Satellite Products

Kai-Ting Peng, Jia-Yuh Yu

14:52 - 15:00 **AS-U01-041**

Tropical Pacific Sea Surface Temperature Response to Shifting Aerosol Emission Locations

Sin-Yun Chung

15:10 - 15:18 **AS-U01-042**

Impacts of Maritime Continent Deforestation on Early Summer Extreme Rainfall Characteristics in East Asia

Yi-Chieh Chen, Wan-Ru Huang

15:18 - 15:26 **AS-U01-043**

Walker Cell Westward Shift under Abrupt $4\times\text{CO}_2$ Forcing Driven by Atmospheric Energy Gain over Eurasia and Africa

Hsiang-Chi Yeh, Yen-Ting Hwang, Masahiro Watanabe

15:26 - 15:34 **AS-U01-044**

Exploring the role of Stratospheric polar vortex variability in Sudden Stratospheric Warmings and its downward impact

WANG YIH, LIANG YU-CHIAO, TSENG KAI-CHIH

15:34 - 15:42 **AS-U01-045**

使用新指數來探索西北太平洋熱帶氣旋快速增強的氣候特徵

李俊彥、林沛練、余嘉裕

15:42 - 15:50 **AS-U01-046**

以調整式標準化降水指數分析 14 世紀中葉以來中國歷代文獻所記錄之長期乾旱模式

張芝瑄、林冠慧、曾琬鈴、林正偉、黃信誠、王寶貴

[AS-M1] 碩士班氣候動力領域**Masters Climate Dynamic**15:50 - 15:58 **AS-U01-047**

Moisture and Persistence of Annular Mode: Insights from GFDL Dynamical Core

Jin-Yu Chang, Kai-Chih Tseng15:58 - 16:06 **AS-U01-048**

Exploring the Impacts of Multi-Year La Niña Events on Rainfall and Agricultural in Southeast Asia: A Case Study of Mango

Yu Hsuan Chang, Min Hui Lo**[AS-M3] 碩士班大氣物理化學領域****Masters Atmospheric Physics and Chemistry**

主持人：梁禹喬、王儷樵、蔡嘉倫、鍾高陞、蘇世顥、陳毅軒

16:06 - 16:14 **AS-U01-049**利用無人機觀測探討高屏地區臭氧三維時空分布
許睿芯、王聖翔16:14 - 16:22 **AS-U01-050**統計分析台灣北部對流系統演化之雙偏極化參數特徵
覃廉翔、張偉裕16:22 - 16:30 **AS-U01-051**

Investigating the microphysical characteristics of precipitation systems during the 2018 Southwest Monsoon (SWM) season in South Luzon, Philippines

John Ruel Loyola Locaba, Wei-Yu Chang16:30 - 16:38 **AS-U01-052**

Investigating Fog Occurrence Mechanisms in Taiwan's Mountain Areas Using Machine Learning: A Case Study of the Alishan Region

Tzu-Chiang Huang, Min-Hui Lo

[OC-AS] 海洋聯合實驗整合性研究 (海洋與大氣聯合議程)

Integrated Study on Ocean-Atmosphere Joint Experiments

OC-AS01

Room 502

主持人：張明輝、張偉裕

08:30 - 08:45 **OC-AS01-001**

Diurnal Sea Surface Temperature Warming along the Kuroshio off Taiwan under Easterly Wind Conditions

Ming-Huei Chang, Yu-Hsin Cheng, Yu-Yu Yeh, Je-Yuan Hsu, Yuheng Tseng, Chung-Hsiung Sui, Yiing Jang Yang, Po-Hsiung Lin

08:45 - 09:00 **OC-AS01-002**

Joint Oceanic and Atmospheric Experiment using R/V New Ocean Researcher 1: Studying the Marine Boundary Layer and Tropical Convection

Jui-Jiun Lin, Ming-Jen Yang, Po-Hsiung Lin, Sen Jan, Yiing-Jang Yang, Chung-Hsiung Sui

09:00 - 09:15 **OC-AS01-003**

臺灣海域作業化四維氣象-海洋研究與防災觀測網之颱風浮標回顧與展望
楊穎堅、詹森、張明輝

09:15 - 09:30 **OC-AS01-004**

Progresses in Upgrading Shipboard Meteorological Measurements for Future Air-sea Interaction Research

Je-Yuan Hsu

09:30 - 09:45 **OC-AS01-005**

Investigating the Properties of Oceanic Shallow Convections During New Ocean Researcher 1 Voyage 0069 Taiwan to Palau

Wei-Yu Chang, Hua-En Lin

09:45 - 10:00 **OC-AS01-006**

The marine atmospheric boundary layer observed by shipborne Doppler Wind Lidar

Chen Wei-Nai, Raman M. Roja., Chen Meng-Yuan

主持人：藍詠耀

10:30 - 10:45 **OC-AS01-007**

臺灣年度大潮週期及區域特性之研究

戴世杰、林勝豐、黃士哲、陳進益

10:45 - 11:00 **OC-AS01-008**

POP2-waves 耦合模式評估波浪對海洋 CO₂ 通量的影響及與 NOAA CT2022 觀測比對

藍詠耀、許晃雄、李威良、周宗徹

11:00 - 11:15

OC-AS01-009

Investigating the coupled model impact and air-sea interaction mechanism using observation from TAHOPE (2022) field campaign

Kuan-Jen Lin, Shu-Chih Yang, Shuyi S. Chen

11:15 - 11:30

OC-AS01-010

以船載 GNSS 資料分析臺灣近海之大氣可降水量

洪瑞澤、葉大綱、施巨昶

11:30 - 11:45

OC-AS01-011

Unraveling Holocene AMOC Recovery and Teleconnection Impacts on Climate Variability in the TraCE-21K-II Simulation

Yu-Shen Lin, Shih-Yu Lee, Feng He, Huang-Hsiung Hsu, Yue-Gau Chen

[LSUB] 地層下陷監測與防治研討會

The 3rd LAnd Subsidence induced by fluid ExtRaction 2025

LSUB02

Room 503

[GS] 重力測量應用

Applications of Gravity Measurements

主持人：蕭宇伸、黃金維、鄭景中

09:00 - 09:15 **LSUB02-001**

重力對臺灣新一代大地起伏模型與水文研究之貢獻
黃金維

09:15 - 09:30 **LSUB02-002**

重力技術如何協助台灣地層下陷之水資源調查
陳冠宏

09:30 - 09:45 **LSUB02-003**

Assessing the Effects of Geoid Model Variations on Flood Inundation Simulations in Taiwan
Kuan Hsiang Fang, Yu Shen Hsiao

09:45 - 10:00 **LSUB02-004**

建構高解析光纖沉陷監測系統：BOTDA 技術於台灣地層下陷熱區之實踐
鐘志忠、倪春發、葉大綱、蘇勁宇、Zada Umar、傅東瑋、李姿儀、董庭君

10:00 - 10:30 交流茶會 / Tea Break

主持人：蕭宇伸、黃金維、鄭景中

10:30 - 10:45 **LSUB02-005**

Interpolate the water table variation by spatial and temporal microgravity monitoring
Ching-Chung Cheng, Chia-Kuei Kang, I-Chen Kuo, Rahayu Lestari

10:45 - 11:00 **LSUB02-006**

Geodetic methods for understanding focused recharge in rivers and karst
Alex Rinehart, Susan Bilek, Daniel Cadol, Ronni Grapenthin, Andrew Luhmann

11:00 - 11:15 **LSUB02-007**

兩種區域性大地水準面建模方法在台灣地區之比較與誤差分析
楊致逸、蕭宇伸

11:15 - 12:00 **Special Talk**

What is repeat gravity good for? Examples of mapping storage change and aquifer properties from across the USA
Alex Rinehart (New Mexico Tech.)

[OC] 2025 海洋科學年會暨國科會海洋學門成果發表

2025 Ocean Sciences Conference

OC10

Room 505a

[OCYF-P] 青年論壇：海洋物理

Physical Oceanography

主持人：方盈智

- | | |
|---------------|--|
| 08:00 - 08:15 | OC10-001
The Role of Transient Air-Sea Interaction in the Formation of the 2008 Cold Disaster in the Taiwan Strait
Jia-Yi Lin, Zhe-Wen Zheng |
| 08:15 - 08:30 | OC10-002
利用電磁垂直剖面探測浮標資料分析南海地區內孤立波的訊號
張晏誠 |
| 08:30 - 08:45 | OC10-003
Numerical Simulations of Coastal Shallow Water Temperature Response to Landfalling Typhoons
Wenpu Ho, Iam-Fei Pun |
| 08:45 - 09:00 | OC10-004
坡岸式振盪水柱式系統設計暨水工模型試驗
蕭伯御、林俊宏 |
| 09:00 - 09:15 | OC10-005
南海中部海域於颱風前後期間的參數次諧波不穩定運動之研究
張仁宥、楊穎堅、傅科憲 |
| 09:15 - 09:30 | OC10-006
以長期衛星高度計數據探討北南海黑潮套流所形成的反氣旋式渦旋
蘇煜鈞、張明輝、鄭宇昕 |
| 09:30 - 09:45 | OC10-007
Transmission of Rossby Waves Through the Philippine Archipelago
Mac Euan Ducusin Malugao, Sen Jan, Ming-Huei Chang, Tung-Yuan Ho, Yiing Jang Yang |
| 09:45 - 10:00 | OC10-008
綠島西方黑潮之變動
張喬瑄、陳陽益、李逸環、李忠潘 |

主持人：林幼淳

- | | |
|---------------|--|
| 10:30 - 10:45 | OC10-009
Assessing Marine Heatwave Trends and Climate Oscillation Influences on Coral Bleaching Risk in the Mesoamerican Reef System
Naydeline Teresita Smith, Po-Chun Hsu |
|---------------|--|

6月18日議程

June 18th Sessions

OC10

Room 505a

[OCYF-P] 青年論壇：海洋物理

Physical Oceanography

10:45 - 11:00 **OC10-010**

Near-bottom turbidity under different surface wave regimes

Ting-Yu Dai, Ying-Chih Fang, Ruo-Shan Tseng

11:00 - 11:15 **OC10-011**

驗證 EM-APEX Float 在低風速下測得的波譜品質

黃鈺宸、許哲源

11:15 - 11:30 **OC10-012**

Spatiotemporal Analysis of Marine Heatwaves, Climate Variability, and Upwelling Signals in the Malacca Strait

Wiliam Wiliam, Po-Chun Hsu

11:30 - 11:45 **OC10-013**

Ocean Pattern Dynamics and Marine Heatwave Intensification Along the Western Coast of Aceh

Faqih Musyaffa, Po-Chun Hsu

11:45 - 12:00 **OC10-014**

MUTUAL INFLUENCE OF MARINE HEATWAVES AND UPPER-OCEAN CONDITIONS ON TYPHOON INTENSITY

Thi-Kieu-Diem Nguyen, Po-Chun Hsu

12:00 - 12:15 **OC10-015**

透過內潮模式、衛星影像及現場觀測預測北南海內孤立波的行進與抵達時間

簡佳宣、張明輝、葉祐瑜

OC10

Room 505a

[OC-P] 海洋物理

Physical Oceanography

主持人：陳世楠、李逸環

13:00 - 13:15 **OC10-016**

Northwestern Pacific Oceanic circulation shaped by ENSO

You-Lin Wang, Fei-Fei Jin, Chau-Ron Wu, Bo Qiu

13:15 - 13:30 **OC10-017**

Short-term variability of the Kuroshio in response to an impinging anticyclonic eddy

Ying-Chih Fang, Dai-Jyun Yu, Huang Wei-Jou, Wu Wen-Chuan, Lin Yen-Huei, Shao Huan-Jie, Jiang Bing-Rong

13:30 - 13:45 **OC10-018**

Asymmetry in the zonal drift of mesoscale vortices: From single vortex to vortex

Shih-Nan Chen, Chiou-Jiu Chen

[OC-P] 海洋物理**Physical Oceanography**13:45 - 14:00 **OC10-019**

A numerical study on the generation of internal solitary waves in the northern South China Sea

Guan-Yu Chen14:00 - 14:15 **OC10-020**

A Potential Vorticity View of Nonlinear Oceanic Lee Wave

Jia-Lin Chen, Tsai-Ling Chuang, Wei-Zhang Tsai14:15 - 14:30 **OC10-021**

台灣東南海域黑潮與內波現象

李逸環、傅科憲、李維德14:30 - 14:45 **OC10-022**

臺灣東北近岸聲波都卜勒流剖儀觀測分析

何宗儒14:45 - 15:00 **OC10-023**

2022 年東加火山引發之台灣氣象海嘯增幅現象之機制探討

楊博元、吳祚任、林君蔚**OC11****Room 505b****[OCYF-B] 青年論壇：海洋生物/漁業****Biological Oceanography and Marine Biology**

主持人：詹雅帆

08:15 - 08:30 **OC11-001**

台灣淺灘周邊海域浮游動物重金屬蓄積之研究

吳瑞申、謝泓諺、孟培傑08:30 - 08:45 **OC11-002**

Stoichiometric imbalance between zooplankton and phytoplankton determines competitive superiority in marine herbivorous zooplankton community

Wei Chen, Pei-Chi Ho, Chih-hao Hsieh, Chia-Ting Chen, Pei-Ling Wang08:45 - 09:00 **OC11-003**

QUANTIFYING CARBON SEQUESTRATION OF MACROALGAE THROUGH NET PRIMARY PRODUCTION (NPP) WITH THE EMPHASIS ON PHOTOSYNTHETIC QUOTIENT (PQ)

LEA TERESA INES ANGELO, TZONG YUEH CHEN09:00 - 09:15 **OC11-004**

臺灣周邊海域馬加鰭屬與餌料物種空間分布與豐度重疊特性之研究

黃柏諺、藍國璋、吳研綸、蕭博元、徐維品

OC11

Room 505b

[OCYF-B] 青年論壇：海洋生物/漁業

Biological Oceanography and Marine Biology

09:15 - 09:30 **OC11-005**

人為捕撈和氣候變遷對中西太平洋生態系統結構與重要物種豐度影響之研究

孫芃妤、梁婷滄、蕭博元、藍國璋、Chia Ling Lim

09:30 - 09:45 **OC11-006**

台灣淺灘周邊海域春季銀灰半稜鯉、箕作布式筋魚與綠鰻布式筋魚仔稚魚的分布、成長及攝食競爭

劉芷伊、謝泓諺

09:45 - 10:00 **OC11-007**

以出現與豐度資料探討海洋魚類地理分布遷移估算之差異

黎穎禎、林盈仲、柯佳吟

OC11

Room 505b

[OC-B] 海洋生物/漁業

Biological Oceanography and Marine Biology

主持人：藍國維、鍾明宗

10:30 - 10:45 **OC11-008**

Scaling coral reproduction and resilience: building a modular toolkit for restoration in a changing climate

Kwok Wai Lam, Ling Xuan Xu, Xuan Ci Zhang, Yu Ting Qiu, Zong Min Ye, Ming Qi Jiang, Ting Hui Cheng, Guanyan Keelung Chen, Mu Hsiang Wan, Logan M. Marion, Marina Villoch Diaz Maurino, Ryan Whitehead, Ian Combs, Jason Spadaro, Erinn Muller, Michael P. Crosb, Crystal J. McRae, Tung Yung Fan

10:45 - 11:00 **OC11-009**

Reconstructing trophic trajectories using stable isotope analysis on the accretionary structures of marine organisms

Ming-Tsung Chung, Li-Ling Kao, Jen-Chieh Shiao, Mu-Ting Li, Han-Chun Hsiao, Chi-Yuan Hsieh, Pei-Ling Wang, Chia-Hui Wang

11:00 - 11:15 **OC11-010**

A systematic review of coral research in Taiwan: an overview of study topics, advances, gaps, and opportunities

Crystal J. McRae, Aziz J. Mulla, Yuting Vicky Lin, Daphne Z. Hoh, Satoh Takanori

11:15 - 11:30 **OC11-011**

Diversity hotspot Taiwan: inadequate record for sponges

Christine Hanna Lydia Schönberg, Yen-Huei Li, Jia-Yi Lim

[OC-B] 海洋生物/漁業**Biological Oceanography and Marine Biology**11:30 - 11:45 **OC11-012**

Diversity and abundance of macrobioeroders on disturbed reefs at Dongsha Atoll

Yen-Huei Li, Schönberg Hanna Lydia Christine11:45 - 12:00 **OC11-013**孵育型珊瑚水產養殖系統中珊瑚扁蟲天敵的攝食影響與防治
商皓惟、藍國維、高立容、邱顗陵、駱乙君、樊同雲

主持人：康立國、何珮綺

13:00 - 13:15 **OC11-014**熱帶骨藻以不同的策略來因應環境氮磷營養鹽不足的情形
康利國13:15 - 13:30 **OC11-015**

Variation of size-dependent plankton stoichiometry along the Kuroshio Current

Pei-Chi Ho, Chia-Ting Chen, Wei-Ting Chen, Hiroaki Saito13:30 - 13:45 **OC11-016**Temporal variability and community structure of marine diazotrophs in a subtropical shelf ecosystem
詹雅帆、葉重亨、鍾至青13:45 - 14:00 **OC11-017**Biodiversity and abundances of filamentous N₂-fixing cyanobacteria in the northern South China Sea between 2023 and 2024**Sing-how Tuo, Yen-Huei Lin, Meng-Jia Zhang**14:00 - 14:15 **OC11-018**綠藻的攝食機制探討-以營養鹽、光照與溶解性有機碳為探討因子
林芸琪、江梓豪、蔣國平14:15 - 14:30 **OC11-019**

Biodiversity consistently promotes ecosystem multifunctionality across multiple temporal scales in aquatic microbial communities

Wan-Hsuan Cheng, Takeshi Miki, Chao-Chen Lai, Fuh-Kwo Shiah, Chia-Ying Ko, Chih-hao Hsieh, Chun-Wei Chang14:30 - 14:45 **OC11-020**

Ecological and Adaptive Dynamics of Picochlorophytes in a Subtropical Coastal Marine Ecosystem Influenced by Minjiang River Runoff

Sagaya John Paul Joseph, Yun-Chi Lin, Kuo-Ping Chiang14:45 - 15:00 **OC11-021**

Reducing the mismatch between morphology-based versus sequence-based relative abundance of planktonic ciliates

Wei-Ting Chen, Feng-Hsun Chang, Tsai Sheng-Fang, Chiang Kuo-Ping

[OC-B] 海洋生物/漁業

Biological Oceanography and Marine Biology

主持人：王怡甄、陳孟仙

08:15 - 08:30 **OC12-001**

臺灣淺灘周邊水域之中小型魚類攝食變化：棲地環境與餌料生物的重要性
王怡甄、陳郁凱、李明安、王佳惠、江俊億、謝泓諺

08:30 - 08:45 **OC12-002**

Adaptive mechanisms of *Xenograpsus testudinatus* in the extreme hydrothermal vent ecosystems of the Western Pacific Ocean: A systematic investigation
Subramani Thirunavukkarasu, Rajendran Poovazhagi, Hwang Jiang-Shiou

08:45 - 09:00 **OC12-003**

Novel insights on Cannibalism in *Xenograpsus testudinatus*: Density and Starvation as Catalysts for Cannibalistic Behavior
Jishnu Panamoly Ayyappan, Subramani Thirunavukkarasu, Jiang Shiou Hwang, Murugan Vasanthakumaran, Mubarak Mammel

09:00 - 09:15 **OC12-004**

台灣西部沿岸底棲蟹類種類組成和地理分布
陳孟仙、施習德、陳姿君

09:15 - 09:30 **OC12-005**

臺灣淺灘周邊海域底棲頭足類物種組成和多樣性及 其與環境因子的關聯
江俊億、蕭民煌、陳國書、王怡甄、李明安、王佳惠

09:30 - 09:45 **OC12-006**

Population Genetics and Evolutionary History of the Indian Squid, *Uroteuthis duvaucelii* (d'Orbigny, 1935), in the Central Indo-Pacific
Lorenzo C. Halasan, Hsiu-Chin Lin

09:45 - 10:00 **OC12-007**

暖化、酸化及微塑膠對幼生虎斑烏賊捕食行為影響
李佳怡、柯佳吟

主持人：湯森林、呂曉沛

10:30 - 10:45 **OC12-008**

A Comprehensive Survey of Metagenomes in the North-Western Pacific Ocean and Its Application on Detection of Ecological Function and Role of Mixotrophs : Genomic Characterization of Mixotrophic Microalgae
Chi-Yu Shih, Lee-Kuo Kang, Yun-Chi Lin, Yu-Wei Wu, Wen-Shyong Tzou, Hsiao-Pei Lu, Sim Lin Lim, Sen-Lin Tang

10:45 - 11:00 **OC12-009**

利用高通量定序解析西北太平洋浮游生物之晝夜垂直遷移與群聚結構變化
呂曉沛

[OC-B] 海洋生物/漁業**Biological Oceanography and Marine Biology**11:00 - 11:15 **OC12-010**

Mapping marine ecosystem diversity through spatial heterogeneity in underwater soundscapes

Tzu-Hao Lin, Tzu-Yi Chuang, Wei-Chen Tung, Tzu-Yen Hsu, Shan En Chen, Ting Hsuan Hsu11:15 - 11:30 **OC12-011**

臺灣西南海岸長期社會生態核心觀測站

陳孟仙、王宏仁、陸曉筠、劉莉蓮、黃蔚人、林裕嘉、陳煦森、洪夢祺、陳德容、吳靖穎、袁菲翎、賴建成11:30 - 11:45 **OC12-012**

臺灣東北海域 RNA 病毒初探

時繼宇、康利國11:45 - 12:00 **OC12-013**

光靠樹蔭可不行，海龜子代多雌性！

劉璉翰、鄭明修、李湛元、涂芝瑋、林博雄、陳昭倫、柯佳吟

主持人：張景淳

13:00 - 13:15 **OC12-014**Integrating isoscapes and amino acid $\delta^{15}\text{N}$ analyses to reveal migration patterns and habitat use of mollusks in the western Pacific Ocean**Ching-Tsun Chang, Daniel J Madigan, Aaron B Carlisle, Natalie Wallsgrove, Itsumi Nakamura, Marianne Nyegaard, Valerie Allain, Jeffrey C Drazen, Wei-Chuan Chiang, Brian N Popp**13:15 - 13:30 **OC12-015**

氣候變遷下的漁業調適策略：臺灣遠洋延繩釣與太平洋島國之互動分析

吳研綸、藍國璋13:30 - 13:45 **OC12-016**

海洋氣候變遷模擬及其漁業應用

郭怡君、陳沛宏、金建邦、鄭兆尊、吳虹儀、張致銜、莊世昌、張可揚、廖建明、曾于恒、李彥緯、劉曉薇、陳昭安、童裕翔、周至中、李欣輯、陳永明、許晃雄13:45 - 14:00 **OC12-017**

Marine Biofouling and Microbial Communities on Materials Used in a Kuroshio Power System: A Study from the Kuroshio Current Region in Eastern Taiwan

Tsai-Luen Yu, Yan-Yi Yang, Ching-Yu Chang14:00 - 14:15 **OC12-018**

探討低電能之水中氣泡技術在防汙應用中的最佳效果

黃翊淮、李政賢、林秀瑾

[OC-C] 海洋化學**Chemical Oceanography and Marine Chemistry**

主持人：簡嘉德、許瑞峯

08:45 - 09:00 **OC13-001**以多元素暨多同位素組成分析西菲律賓海不同粒徑氣膠鐵來源
謝志強、高野祥太郎、黃國芳、何東垣09:00 - 09:15 **OC13-002**Transport of terrestrial material to Taiwan's coastal regions: Effect of river hydrology
Kuo-Tung Jiann, Yu-Nu Huang09:15 - 09:30 **OC13-003**末次冰盛期海洋生物碳幫浦對大氣二氧化碳影響的系集模擬
簡嘉德09:30 - 09:45 **OC13-004**Vertical flux of microplastics in the ocean around Taiwan: Observations from floating sediment-trap and marine snow cather
Shiu Ruei-Feng, Wu Wen-Huai09:45 - 10:00 **OC13-005**西菲律賓海氣膠和表層海水稀土元素的組成特徵
呂佳蓉、謝志強、何東垣

主持人：謝玉德、李承軒

10:30 - 10:45 **OC13-006**Barium biological uptake and isotope fractionation by a marine diatom
Yu-Te Hsieh, Po-Kai Yang, Tung-Yuan Ho10:45 - 11:00 **OC13-007**Nutrient Transport from the Margin to the Center of the Subtropical Gyre by an Anticyclonic Eddy Constrained by the Dual Isotopes of Nitrate
Haojia Ren, Yu-Chen Liu, Ya-Hsien Lan, Yu-Yu Yeh, Tung-Yuan Ho, Sen Jan, Ming-Huei Chang11:00 - 11:15 **OC13-008**Fate of Seaweed Released Dissolved Organic Matter from Taiwan and Okinawa
Brandon Michael Stephens, HaoJia Ren, Andreas J Andersson, YuChen Yen, Carel Tan, YiChi Chen, ChengChih Hsu, HsinYi Wu11:15 - 11:30 **OC13-009**Biogeochemical controls on CO₂ dynamics in submarine groundwater discharge: Role of alkalinity and nutrients near two tropical coral islands
Hon-Kit Lui

[OC-C] 海洋化學**Chemical Oceanography and Marine Chemistry**11:30 - 11:45 **OC13-010**

Extreme Weather Events and the Winter Biological Carbon Pump in the South China Sea

Yung-Yen Shih, Pei-Yu Fu, Chin-Chang Hung11:45 - 12:00 **OC13-011**

Uptake of per- and polyfluoroalkyl substances by marine diatoms

Cheng-Shiuan Lee, Jhih-Yao Yu**[OCGS-MG] 海洋地質/地球物理****Marine Geology & Geophysics**

主持人：張翠玉

13:00 - 13:15 **OC13-012**

甲烷煙鹵源著底棲性海底生物洞穴形成流體通道的直接證據——來自台灣中部的化石紀錄

Jean-Philippe Blouet, Andreas Wetzel, 何雪盈 Sutieng HO13:15 - 13:30 **OC13-013**SWOT 衛星測高數據在海洋及海洋地球物理研究的應用現況報告
黃金維13:30 - 13:45 **OC13-014**海床地振動對於接近海床的水流速度之影響
林慶仁13:45 - 14:00 **OC13-015**Field observations of bio-physical flocculated sediments on a coastal algal reef
Zhi-Cheng Huang, Tian-Jian Hsu, Trung Nguyen Ly14:00 - 14:15 **OC13-016**Preliminary Investigation of Spatial and Temporal Variations in Shallow Sediments of the Qigu Lagoon: A Source-to-Sink Perspective
許介璋、劉祖乾、莊佩涓、楊仁凱14:15 - 14:30 **OC13-017**南海北部大陸邊緣下部地殼高速帶的空間分佈與地質意涵
張日新、洪梓麟、Mirza Arif、林亮甫、謝獻祥、柯彥廷、張頌平、陳勁燁、劉廷毅

[GW] 第 17 屆地下水資源及水質保護研討會**2025 17th Conference on Groundwater Resources & Water Quality Protection****GW03****Room 507****[GW-05] 地下水資源觀測技術：從傳統方法到創新技術的轉型****Groundwater Resource Monitoring Technologies: Transition from Traditional Methods to Innovative Techniques**

主持人：王聖璋、汪柏岑

10:30 - 10:50 **GW03-001**應用衛星影像反演與現地觀測資料評估濁水溪沖積扇土壤含水量變動
林榮潤、陳耐錦、柯建仲、陳宇文、梁嘉宏、賴慈華10:50 - 11:10 **GW03-002**應用高精度地下水流速試驗調查裂隙水流之初步成果
黃鈺翔、黃胤中、莊伯禹、柯建仲11:10 - 11:30 **GW03-003**豎管式多封塞系統於裂隙岩體水壓監測技術之應用初探
潘庭馨、黃胤中、莊伯禹、柯建仲11:30 - 11:50 **GW03-004**水文地質調查示蹤劑技術之發展—以和社水文地質試驗井場為例
劉慶怡、莊伯禹、柯建仲、邱永嘉、賈儀平13:30 - 13:50 **GW03-005**以重力調查初探隘寮溪地下水補注管理方案效益
陳冠宏13:50 - 14:10 **GW03-006**結合貝氏模型平均法與貝氏最大熵法優化污染物監測井設置之研究
郭曜銘、劉台生14:10 - 14:30 **GW03-007**土壤及地下水污染掃描精準整治輔助系統
汪柏岑、張家豪、梁哲維、柯炳薰、蔡瑞彬、董天行14:30 - 14:50 **GW03-008**應用電磁方法探討台灣中部重要地下水邊界水文地質特性
陳俊榕、林燕初、賴慈華、黃智昭、李奕亨、陳文山、黃桂奕、陳新翰、
楊詠涵、李元希

海報展示/競賽 Poster Display/Competition

[GS] 2025 中華民國地球物理學會及中華民國地質學會年會暨學術研討會
 2025 Annual Conference of Chinese Taipei Geophysical Society &
 Geological Society Located in Taipei

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海報展示 / 競賽

Poster Display / Competition

海報競賽

[GS-S1] 一般地震學研究
 General Seismology

展示日期：6/16-6/18

評分日期：6/17

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PP 001	GS-S1-PC01 嘉南平原地震密集網微震分析 劉祐安、溫士忠
PP 002	GS-S1-PC02 從應力反演與後投影法解析 2022 年關山池上地震序列 詹燕如、溫士忠
PP 003	GS-S1-PC03 西部雲林地區之淺層 S 波速度構造探討 涂立欣、黃蕙珠、施典翰
PP 004	GS-S1-PC04 Clustering Analysis of the BMKG Catalog of Sumatra Using the DBSCAN Algorithm Nela Elisa Dwiyantri, Po-Fei Chen
PP 005	GS-S1-PC05 Finite-Fault Rupture Characteristics of the 2025 Mw 7.7 Myanmar Earthquake Along the Sagaing Fault Yopi Ruben Serhalawan, Po Fei Chen
PP 006	GS-S1-PC06 南呂宋中源地震的震源特性與孕震潛能分析 古家語、黃瑞德、林瓊瑤、林采儀、林祖慰
PP 007	GS-S1-PC07 Microearthquake monitoring in northern Hualien, Taiwan with a borehole seismometer array Ru-Hung Tsai, Yen-Yu Lin, Yin-Tung Yen, Chun-Te Chen
PP 008	GS-S1-PC08 Investigating Velocity Pulse Generation through 3-D Ground Motion Modeling Case Studies of the 2016 Meinong and 2018 Hualien Earthquakes in Taiwan Yung-Ching Yang, Ming-Che Hsieh, Yen-Yu Lin
PP 009	GS-S1-PC09 2024 年 4 月 3 日花蓮 Mw 7.32 地震近場地震波特性 李威廷、馬國鳳

海報競賽

[GS-S1] 一般地震學研究
General Seismology

展示日期：6/16-6/18

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| PP 010 | GS-S1-PC10
利用密集陣列觀測探討玉里斷層之地震振幅空間分布
許筱葳、馬國鳳 |
| PP 011 | GS-S1-PC11
Mapping Fault Zone Attenuation Using MiDAS Downhole Optical Fiber and Borehole Seismic Arrays
Lu Hsiao, Kuo-Fong Ma, Yen-Yu Lin |
| PP 012 | GS-S1-PC12
台灣東北地區碰撞—隱沒-弧後張裂孕震構造分析
王云昕、廖勿渝、李恩瑞 |
| PP 013 | GS-S1-PC13
應用傅立葉神經算子於地震波形自動辨識與波相挑選
劉宇欣、廖勿渝、李恩瑞 |
| PP 014 | GS-S1-PC14
混合式數值模擬方法對情境地震的應用
謝銘峰、溫士忠 |
| PP 015 | GS-S1-PC15
以深度學習自動化地震目錄建構
陳奕凱、廖勿渝、李恩瑞 |
| PP 016 | GS-S1-PC16
Instrument Response of the IES Differential Pressure Gauge and a Seafloor Compliance Study for the Northern Okinawa Trough
Po-Chen Wang, Ban-Yuan Kuo, Justin Yen-Ting Ko, Chin-Jen Lin, Cheng-Chien Peng, Kai-Xun Chen |
| PP 017 | GS-S1-PC17
Analyzing Seismic Models and Their Application to Probabilistic Seismic Hazard Assessment: A Case Study of the Longitudinal Valley, Taiwan
Ting-Ying Lu, Chung-Han Chan |
| PP 018 | GS-S1-PC18
臺灣鄰近深源地震芮氏規模之探討
林芯羽、吳逸民 |
| PP 019 | GS-S1-PC19
以 P 波衰減特性與 V_p/V_s 比值在時空上變化探討 2022 年關山-池上地震序列
吳沛儒、溫士忠、張議仁 |

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| PP 020 | GS-S4-PC01
Imaging the Discontinuous Structure beneath Southern Taiwan with CCP Stacking of Receiver Functions
Shih-chi Shao, Shu-huei Hung, SALUTE Team |
| PP 021 | GS-S4-PC02
2018 年 9 月 28 Mw 7.5 印尼帕魯地震的應變能評估
邱亦璿、黃瑞德、林瓊瑤、林采儀、黃怡陵 |
| PP 022 | GS-S4-PC03
Imaging the Upper Mantle Beneath the Oldest Pacific Seafloor With Finite-Frequency Tomography: Insights From Oldest-1 and Oldest-2
Jun-Jie Ke, Shu-Huei Hung, Hitoshi Kawakatsu, Takehi Isse, Ban-Yuan Kuo, Pei-Ying Patty Lin |
| PP 023 | GS-S4-PC04
2021 花蓮壽豐地震序列之地震活動性探討
沈明翰、廖勿渝、李恩瑞 |
| PP 024 | GS-S4-PC05
歐亞板塊在台灣中部隱沒作用的特徵分析：來自 SALUTE 地震資料的觀察
毛聖霖、柯彥廷、曾泰琳、洪淑蕙 |
| PP 025 | GS-S4-PC06
整合深度學習的即時微震監測系統
潘勝彥、孫維芳、劉耀宏、郭陳澔、古進上、林哲民、傅慶州 |
| PP 026 | GS-S4-PC07
Spatiotemporal characteristics and focal mechanisms of tremor clusters along the mountain range of Taiwan
Yi-Chu Hua, Kate Huihsuan Chen, Pei Ying Patty Lin, Satoshi Ide |

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| PP 027 | GS-S2-PC01
Site Effect Study for Kaohsiung City, Taiwan, Based on Shallow S-Wave Velocity Structures
Hannah Peña, Huey-Chu Huang, Fei Chen, Tien-Han Shih |
| PP 028 | GS-S2-PC02
無參考站方法分析台灣北部區域場址放大特性
陳苡婕、郭俊翔 |

海報競賽

[GS-S2] 工程地震學
Engineering Seismology

展示日期：6/16-6/18

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PP 029

GS-S2-PC03

Site-specific Probabilistic Seismic Hazard Assessment in Mamuju, West Sulawesi, Indonesia: Implementation of Time-averaged Shear Wave Velocity (V_{s30}) from Multichannel Analysis of Surface Waves (MASW)

Kekey Salsabil Azzahra, Chun-Hsiang Kuo, Chung-Han Chan

PP 030

GS-S2-PC04

A Deep Learning Framework for Peak Ground Velocity Prediction Using Multi-Station Velocity Waveforms: The Taiwan Transformer Shaking Alert Model (TT-SAM)

Yu Heng Chen, Chung Han Chan, Chieh Chen Chang, Kuo Fong Ma

PP 031

GS-S2-PC05

Using Strong Earthquake to Evaluate the Application of the P-alert System in Structural Health Monitoring

Min-Cheng Huang, Yih-Min Wu, Yin-Nan Huang, Chia-Ming Chang

海報競賽

[GS-S3] 環境與噪聲地震學
Environmental and Ambient Noise Seismology

展示日期：6/16-6/18

評分日期：6/17

壁報板編號

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PP 032

GS-S3-PC01

Multi-Mode Ambient Noise Phase Velocity Tomography in Southern Taiwan Using Frequency-Bessel Transform and Voronoi Partitioning

Wen-Hao Wu, Shu-Huei Hung, Jun-Fu Liao, Ying-Nien Chen, Team SALUTE

PP 033

GS-S3-PC02

High-Resolution 3D Imaging of the Thrust System East of Chiayi Using Dense Array Ambient Noise and Eikonal Tomography

Denisse Aubrey Navarro Soriano, Ying-Nien Chen

PP 034

GS-S3-PC03

利用福爾摩沙陣列探討臺北都會區之微震特性
郭濬丞、陳卉瑄、林正洪、賴雅娟、史旻弘

PP 035

GS-S3-PC04

Low-frequency ocean gravity waves triggered by tropical cyclones via seafloor distributed acoustic sensing

Hou-Sheng Cheng, Takashi Tonegawa, Emmy T. Y. Chang, Eiichiro Araki

海報競賽

[GS-S3] 環境與噪聲地震學

Environmental and Ambient Noise Seismology

展示日期：6/16-6/18

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壁報板編號

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PP 036

GS-S3-PC05

利用噪訊成像技術反演觀音山地區剪力波速度模型
陳曄力、陳伯飛

海報競賽

[GS-S5] 0403 花蓮地震的研究發展

Research Progress on the Hualien Earthquake on 3rd Apr. 2024

展示日期：6/16-6/18

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PP 037

GS-S5-PC01

Classification of the April 3rd, 2024 Mw 7.4 Hualien, Taiwan, Aftershock Sequence Using Waveform Cross-Correlation
Hsuan-Ching Hung, Kuo-Fong Ma

海報競賽

[GS-TT1] 地震地質與新期構造

Earthquake Geology and Neotectonics

展示日期：6/16-6/18

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PP 038

GS-TT1-PC01

利用岩石三軸壓縮實驗探討斷層帶的粉碎岩石
黃騰慧、連珀穎、吳文傑、郭思廷、郭力維

PP 039

GS-TT1-PC02

Active tectonics of the Yuli fault in the central Longitudinal Valley area, eastern Taiwan
Shiang Duan, Yu Wang

PP 040

GS-TT1-PC03

利用地震與重力資料序列逆推台灣東北部三維速度與密度構造
邱品瑄、顏宏元、羅祐宗

PP 041

GS-TT1-PC04

Anisotropic Structures Beneath Sulawesi, Indonesia, Inferred from Shear-Wave Splitting of Local and Teleseismic Events
Abraham Arimuko, Po-Fei Chen

PP 042

GS-TT1-PC05

結合地震波速與重力數據的順序反演法於台灣中部之地下構造研究
彭聖元、顏宏元、羅祐宗

海報競賽

[GS-TT1] 地震地質與新期構造
Earthquake Geology and Neotectonics

展示日期：6/16-6/18

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PP 043 **GS-TT1-PC06**
臺灣西部麓山帶的東苗栗構造活動性再評估
王紹瑜、徐濤德

PP 044 **GS-TT1-PC07**
臺灣海域孕震構造之位置與滑移速率
陳承鴻、徐濤德

海報競賽

[OCGS-MG] 海洋地質與地球物理
Marine Geology and Geophysics

展示日期：6/16-6/18

評分日期：6/17

壁報板編號

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PP 045 **OCGS-MG-PC01**
末次冰期後濁水溪沖積扇海域層序地層初探：以超高解析度反射震測資料為例
施柏豪、張頌平、黃正勳、許鶴瀚、陳憶萍、王明

PP 046 **OCGS-MG-PC02**
多頻道反射震測與重力整合分析探討南海太平島海域的地殼構造
陳冠宏、張頌平、謝獻祥、Arif Mirza、張日新、許鶴瀚、陳憶萍、Manuel Pubellier、Matthias Delescluse、Geoffroy Mohn

PP 047 **OCGS-MG-PC03**
The geological structures of the Manila forearc region from latitude 16°N to 18°N
Yun-Jie Tsai, Shu-Kun Hsu, Ching-Hui Tsai, Lien-Kai Lin, Shiou-Ya Wang, Yi-Ching Yeh, Leo Armada

PP 048 **OCGS-MG-PC04**
Analyzing Gas Seepage Structures offshore SW Taiwan : Acoustic and Seismic Insights into gas plume
Cheng-Yu Ou, Tzu-Ting Chen, Ho-Han Hsu

PP 049 **OCGS-MG-PC05**
Shallow Seismogenic Structures Offshore Hualien: Analysis of Seismic Stratigraphy and Seafloor Features
Hung-Yi Wu, Ho-Han Hsu, Arif Mirza, Chih-Chieh Su, Tzu-Ting Chen, Liwen Chen, Song-Chuen Chen

展示日期：6/16-6/18

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PP 050	GS-NH2-PC01 A Study on Paleoenvironmental Changes Around DP Lagoon Yu-Hsuan Chen, Shyh-Jeng Chyi, Jiun-Yee Yen, Ya-Hsuan Shih, Jia-Hong Chen
PP 051	GS-NH2-PC02 利用三維地質建模與 InSAR 技術解析滾水坪泥火山地下泥漿分布與地表變形特徵 彭馳翔、陳柔妃、張嘉興、葉家志、陳宗靈
PP 052	GS-NH2-PC03 Integrating LiDAR and InSAR technologies for post-earthquake surface analysis and disaster assessment in mining areas Kai-Yun Cheng, Rou-Fei Chen, Kuo-Chen Chang, Suet-Yee Au
PP 053	GS-NH2-PC04 Spatial Correlations Between Land Subsidence and Population Density: A Case Study from Jakarta, Indonesia Muhammad Yunus, Ruey Juin Rau, Sung Ping Chang
PP 054	GS-NH2-PC05 Machine Learning for High-Accuracy Co-Seismic Landslide Prediction Using Multi-Parametric Data: A Case Study of M7.2 Hualien Earthquake Yu Hsuan Ou Yang, Wei An Chao
PP 055	GS-NH2-PC06 Rapidly assessing coseismic landslides using logistic regression model and initial P-wave amplitude Cheng-Hung Chou, Wei-An Chao
PP 056	GS-NH2-PC07 Seismic Risk Assessment for Taiwan Using Optimized Fragility Models: Insights from the 2016 Meinong and 2024 Hualien Earthquakes Jia-Sheng Hung, Chung-Han Chan
PP 057	GS-NH2-PC08 Evaluation of Macroseismic Intensity, Ground Motion Characteristics and Earthquake Sequence of the 2022 Mw 5.9 Keng Tung Earthquake in Eastern Myanmar Ei Mhone Nathar Myo, Yu Wang, Yih-Min Wu, Shengji Wei, Lin Thu Aung, Phyo Maung Maung, Bor-Shouh Huang, Patinya Pornsopin
PP 058	GS-NH2-PC09 Toward Improved Probabilistic Seismic Hazard Assessments in Continental Southeast Asia Yuan-Kai Chang, May-Ying Tian, Chung-Han Chan, Teraphan Ornthammarath, Pennung Warnitchai

海報競賽

[GS-EG] 水文與工程地質學

Hydrogeology and Engineering Geology

展示日期：6/16-6/18

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PP 059

GS-EG-PC01

區域地質構造對場址地質模型的影響：以陽明交大為例

邱葦哲、林健宇、連珀穎、吳文傑

PP 060

GS-EG-PC02

台北盆地工程地質分區建置

王鼎崑、董家鈞

海報競賽

[GS-NH1] 山崩與土石流災害

Landslide and Debris Flow

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GS-NH1-PC01

不連續面位態引致滲透係數異向性與應力致使強度異向性對順向岩石邊坡之影響

巫家宜、董家鈞、涂家輝

PP 062

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2022 年關山池上地震誘發之同震山崩

戴于芯、徐濤德

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Preliminary comparison of triggered factors of coseismic landslides from the 2024 Hualien earthquake, 2022 Taitung earthquake, and 1999 Chi-Chi earthquake

Zhi-Syuan Huang, Che-Ming Yang, En-Lun Zhang

PP 064

GS-NH1-PC04

利用 PlanetScope 影像探討 2022 年緬甸景棟地震同震山崩空間分布特性

張庭語、王昱

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Reconstruction of Rainfall Events and Empirical Rainfall Threshold Modeling for Landslide and Debris Flow Forecasting

Chih Hsuan Chu, An Wei Chao

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基於臨界吸應力與降雨閾值曲線建立淺層邊坡預警系統之研究

楊鈞凱、楊亞欣、葉信富

PP 067

GS-NH1-PC07

潛在大規模崩塌地形特徵與活動度之初探

楊斯涵、陳貞伶、楊哲銘

海報競賽

[GS-NH1] 山崩與土石流災害
Landslide and Debris Flow

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GS-NH1-PC08

利用 PlanetScope 影像所產製之多時期數值地表模型探討山崩地的變化：
以玉穗溪上游為例

黃宗鎔、王昱

海報競賽

[GS-M3] 光纖感測技術於地質災害、能源開發與環境監測的新進展
Advances in Distributed Acoustic Sensing Technology for Geological Hazards, Energy Development, and Environmental Monitoring

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GS-M3-PC01

High-Resolution Imaging of the Shanchiao Fault and Basin Structures in Taipei Metropolis Using Dark-Fiber Distributed Acoustic Sensing

Chi-Hsuan Wang, Hsin-Hua Huang, Vinh Long Ha, Po-Fei Chen, Chin-Shang Ku

PP 070

GS-M3-PC02

Depth-Dependent Co-Seismic Velocity Change of the 2024 Hualien Earthquake Observed from MiDAS

Chaninthon Rattanaavetchasit, Hsin-Hua Huang, Yih-Min Wu

海報競賽

[GDGS-EO] 測地學與活動地殼變形/遙感探測技術
Geodesy and Crustal Deformation / Remote Sensing

展示日期：6/16-6/18

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GDGS-EO-PC02

Using UAV Photogrammetry to Analyze Surface Grain Size in Gravel- and Cobble-Bed Rivers

Jeng-Biau Chiou, Ray Y. Chuang

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3-D Surface Deformation Fields of the Longitudinal Valley Suture Derived from Multi-Sensor InSAR Velocities

Min Lee, Ray Y. Chuang, Yau-Hsuan Tsai, I-Ting Wang, Geng-Pei Lin

海報競賽

[GDGS-EO] 測地學與活動地殼變形/遙感探測技術
Geodesy and Crustal Deformation / Remote Sensing

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Surface Deformation Induced by Active Faults and Mobile Shale: Implications for Infrastructure Planning in Southwestern Taiwan
Kuei-Cheng Huang, Kuo-En Ching, Pei-Ching Tsai, Yu-Ting Kuo, Strong Wen, I-Chin Yen, Song-Chuen Chen, Shih-Han Hsiao, Ray Y. Chuang, Chien-Liang Chen |
| PP 075 | GDGS-EO-PC05
Mitigating Ionospheric Effects in DInSAR Using TRIM TEC Map: A Case Study of the September 17, 2022 Earthquake
Kevin Lin, Chung-Pai Chang |
| PP 076 | GDGS-EO-PC06
Topographically Informed Regression for InSAR Tropospheric Correction: Taiwan Tropospheric Delay Model
Jhih-Ting Chiu, Yunung Nina Lin, Hsin Tung, Yu Wang |
| PP 077 | GDGS-EO-PC07
PS-InSAR 技術在離岸風機基樁穩定性監測之應用
黃昱翔、王德名、謝秉皓、林玉儂 |
| PP 078 | GDGS-EO-PC08
雲林地區地表變形之探討
陳映璇、郭昱廷、盧志恒、陳嘉俞 |
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多光譜無人機與機器學習應用於區域碳存量估算
謝秉皓、郭昱廷、陳嘉俞 |
| PP 080 | GDGS-EO-PC10
利用地表變形時序探討 2022 年關山、池上地震之發震構造
吳柏叡、郭昱廷、盧志恒、童忻、陳嘉俞 |
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利用 GPS 資料分析縱谷中段震間變形
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Topographic Reconstruction of Dahan River Terraces by Using Historical Aerial Images

YUHSUAN CHEN, Ray Y. Chuang, En-Chao Yeh

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應用機器學習法自動分辨及圈繪高準確率礫石遮罩：以台灣東部河流礫石粒徑分布為例

曹哲瑋、陳嘉俞

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An Update on the development of New Low-Cost MT Instrumentation

Yekti Widyaningrum, Ping-Yu Chang, Haiyina Hasbia Amania, Ding-Jiun Lin, Jordi Mahardika Puntu, Agung Nugroho, Hanna Shafa Zakiyah

PP 085

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Leveraging Forward Modeling in Magnetotellurics for Quality Control and Predictive Analysis

Haiyina Hasbia Amania, Ping-Yu Chang

PP 086

GS-GP1-PC03

Duration-Amplitude Distribution of Non-Volcanic Tremor in Taiwan

Yuan-Jin Hsiao, Kate Huihsuan Chen, K.I. Konstantinou

PP 087

GS-GP1-PC04

Investigating the Northern Segment of the Chiayi Blind Fault Using the Seismic Reflection Survey

Yung-An Shih, Hao Kuo-Chen

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Improving Seismic Tomography of Southern Taiwan and Eastern Offshore Regions from the SALUTE Amphibious Array and Machine Learning-Based Arrival Time Analysis

Li-Jin Chen, Shu-Huei Hung, Justin Yen-Ting Ko

海報競賽 [GS-GP1] 地球物理、地球物理探勘與環境地球物理 / 人工智慧應用於地球物理
Geophysics, Geophysical Investigation and Environmental Geophysics / Artificial Intelligence Applications in Geophysics

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| PP 089 | GS-GP1-PC06
應用屬性分析技術於透地雷達地下結構探測
林辰叡、莊淑嫻、韓為中 |
| PP 090 | GS-GP1-PC07
透過反射震測法分析北桃園區域是否適合作為探封存場址
廖彥迪、郭俊翔、郭炫佑、王乾盈 |
| PP 091 | GS-GP1-PC08
Enhancing Automated Earthquake Detection with Deep Learning: Application to Ocean-Bottom Seismographs Using Automated Labeling and Transfer Learning
Kevin Kuan-Yueh Chen, Patty Pei-Ying Lin, Nana Yun-Chen Yang |
| PP 092 | GS-GP1-PC09
應用主成分分析於臺灣連續磁力量測數據：地磁場的主要變化模式與影響因子
鄭中崑、顏宏元、羅祐宗 |
| PP 093 | GS-GP1-PC10
4C OBN Intertidal Zone Seismic Reflection Survey: A Case Study of the Guanyin Intertidal Zone
Jun-Xiang Fan, Hao Kuo-Chen, Zhuo-Kang Guan, Chun-Hung Lin, Pei-Ying Patty Lin, Ho-Han Hsu |

海報競賽 [GS-GT] 地球科學技術
Geoscience Technology

展示日期：6/16-6/18

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| PP 094 | GS-GT-PC01
從光譜到熱史：紅外光譜技術在地質溫度重建中的新應用
陳彥宇、杲紹伊、張英如、謝文斌 |
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海報競賽

[GS-ER] 地熱能源、碳封存與地質處置場址調查

Survey of Geothermal Energy, Carbon Storage, Geological Disposal Sites

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PP 095 *GS-ER-PC01*

評估高精確度 Na/Li 地質溫度計作為熱水儲集層溫度指標：以中崙與關子嶺地熱系統為例

陳昭成、盧乙嘉、劉厚均、盧聿豐、陳彥宏

PP 096 *GS-ER-PC02*

High-Resolution Shear-Wave Velocity Imaging for Geothermal Exploration in the Ilan Plain Using Dense-Array Microtremor Analysis

I-Yun Kang, Hsin-Hua Huang, Cheng-Horng Lin, Jian-Cheng Lee, Gong-Ruei Ho, Chin-Yao Huang, Yih-Min Wu, Yue-Gau Chen

PP 097 *GS-ER-PC03*

Pore Structure Characterization and Transport Property Estimation under Multiscale X-ray Computed Tomography

Yao-Ming Liu, Arata Kioka, Louis Ge, Yu-Syuan Jhuo, Szu-Han Chen, Jyh-Jaan Steven Huang

PP 099 *GS-ER-PC05*裂隙內寬與滲透率演變於雙孔隙介質之水-力耦合模型技術開發
許鎧麟、王士榮PP 100 *GS-ER-PC06*

Assessing Temporal and Spatial Variations in Orientation and Seismic Noise in the Littoral Zone with Ocean-Bottom Nodes

Cheng-You Hsieh, Yan-Cheng Yang, Pei-Ying Patty Lin, Hao Kuo-Chen, Chun-Hung Lin

PP 101 *GS-ER-PC07*利用剪力波分離分析裂隙系統特徵：以苗栗泰安地熱場址為例
張晁睿、劉耀宏、孫維芳、潘勝彥、郭陳澐

海報競賽

[GS-V4] 地殼與地函的岩石圈構造交互作用

Lithotectonic Interaction between Crust and Mantle

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PP 102 *GS-V4-PC01*

印尼西爪哇東部火成岩的地球化學與年代學

呂宛馨、賴昱銘、鍾孫霖、Setiawan Iwan、李皓揚

海報競賽

[GS-V6] 從火山噴發到地熱開發：大屯火山活動的時空演變特徵、潛能與風險

From Volcanic Eruption to Geothermal Development: Spatiotemporal Evolution Characteristics, Potential and Risks of Tatun Volcanic Activity

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七星山火山爆裂口火山岩岩心之岩象與地球化學研究
鍾禎芝、賴昱銘、唐懷昱、李皓揚

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北臺灣大屯火山群七星山岩漿庫行為之研究
賴旭泯、賴昱銘、林毓潔、李皓揚、飯塚義之

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大屯火山群火山地形之定量化探討
郭京達、賴昱銘、Kerry Sieh

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GS-V6-PC04

大屯火山群熔岩流災害之數值模擬研究
江驊家、賴昱銘、鄭名鈞

海報競賽

**[GS-ST1] 地層與古生物研究
Stratigraphy and Paleontology**

展示日期：6/16-6/18

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以骨組織學反映臺灣最古老鱷類化石的生長歷史與生態棲位
李岱安、楊子睿

海報競賽

**[GS-ST2] 第四紀地質學與考古地質學
Quaternary Geology and Archaeogeology**

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馬祖地區現代與熾坪隴遺址螺類殼體穩定同位素紀錄所反映之全新世中晚期古環境
官鑫伯、米泓生、李孟陽、李匡悌、王士偉

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GS-ST2-PC02

整合沉積物中多環境指標探討 1680 cal. BP 以來臺灣北部環境變遷
賴若琳、汪良奇、Abdur Rahman

[GS-ST3] 2025 年臺灣第四紀暨東南亞第四紀研討會議 -

海報競賽

人類世環境與氣候變遷

15th TAI-QUA and 1st SEA-QUA - Anthropocene Environment and Climate Changes

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Ocean Heat Transport Variability in the WPWP During Deglaciation: Insights from TraCE-21ka

Yi-Hsueh Tsai, Li Lo, Shih-Yu Lee, Qiuzhen Yin

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Study on the Organic Carbon Content of Sediments in the Mangrove Areas of Taiwan and Its Controlling Factors

Si-Jing Lee, Li Lo, Huei-Fen Chen, Pei-Ling Wang

[GS-ST5] 2025 年臺灣第四紀暨東南亞第四紀研討會議 -

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海相記錄

15th TAI-QUA and 1st SEA-QUA - Marine Records

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Intermorphological Vital Effects Reveal by Geochemical Evidence of Planktonic Foraminifera Genus Pulleniatina

Cian Yun Lin, Li Lo, Chou Chuan Shen, Sheng Horng Mii, Ludvig Löwemark

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Holocene Reef Dynamics and Optimizing Large-Area Ecological Surveys: Insights from Coral Terraces in Lanyu, Taiwan

Huang Hao Wen, Yeh Meng Wan

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The Impact of Climate Change on Sources of Marine Calcium Carbonate

Yi-Chia Chiang, Li Lo, Chih-Chieh Su, Ta-Wei Hsu

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Evidence of Significant Destratification of the Subantarctic Pacific During the Past 3.3-2.4 Million Years

Li-Peng Wu, Pei-Tzu Wu, Li Lo, Chuan-Chou Shen, Horng-Sheng Mii, Ludvig Löwemark

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[GS-V1] 一般地球化學 General Geochemistry

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台灣西南部鹽水溪重金屬汙染季節性探究與分析
陳昱光、鹿島薰、汪良奇、劉厚均 |
| PP 119 | GS-V1-PC02
Geochemical Characteristics of Pyrite: Implications for Genesis of gold deposits in Tatun volcanic area, Taipei
Chung-Yu Li, Sheng-Rong Song |
| PP 120 | GS-V1-PC03
以同位素地球化學方法進行濁水溪流地表與地下水文循環評估
郭宇宸、李孟旋、陳彥宏、葉信富、陳信宇、趙鴻椿、劉厚均 |
| PP 121 | GS-V1-PC04
臺灣西南部泥火山有機地球化學特徵及潛在噴發行為探討
方均、張英如 |
| PP 122 | GS-V1-PC05
Using chemical composition of apatite to investigate the petrogenesis of the Bana igneous complex, western Cameroon
Kuan-Hsueh Chen, Kwan-Nang Pang, Felicite Ayaba, Jean Pierre Tchouankoue |

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[GS-V3] 環境地球化學 Environmental Geochemistry

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| PP 123 | GS-V3-PC01
由微孔珊瑚骨骼中鋇鈣比代用指標評估過去一世紀蘭嶼環境變遷
陳泓愷、劉怡偉、姜宏偉、林卉婷 |
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[GS-EM1] 礦物及岩石學 Mineralogy and Petrology

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| PP 124 | GS-EM1-PC01
Petrogenesis of mafic granulite xenoliths in southern Vietnam and its implication to the lower crust of Indochina
Chen-Wei Lee, Kwan-Nang Pang, Nguyen Truong Tai, Ngo Xuan Thanh, Pham Trung Hieu |
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鈣鈦礦結構鹼土金屬錫酸鹽之熱膨脹與結晶化學關聯性分析

李梓葳、龔慧貞、黎靜謙、葉庭君、莊裕鈞、張仲凱、陳柏豪

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GS-EM2-PC02

Thermal Conductivity of Iron Under High Pressure and Temperature:
Implications for Mercury's Core and Dynamo Evolution

Yi-Ting Chiang, Wen-Pin Hsieh, Yi-Chi Tsao, Chao-Chih Chen, Jun-Wei Chang

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鈣鈦礦結構錫酸鋇高溫結構相變與晶格動力學研究——粉末繞射與拉曼
光譜分析

葉庭君、龔慧貞、黎靜謙、李梓葳、莊裕鈞、張仲凱、陳柏豪

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GS-TT2-PC01

由米崙礫岩變質礫石碳物質拉曼光譜分析建構台灣造山帶近期演化
羅向榮、林苡蓁、陳致同、劉子誼

PP 129

GS-TT2-PC02

P-T condition study of dynamic recrystallization during shear zone
mylonitization using quartz microstructural analysis: a case study of Hoping
mylonite, northeastern TaiwanYa-Chu Tseng, En-Chao Yeh, Hiroaki Yokoyama, Sando Sawa, Jun Muto, Jian-
Cheng Lee

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[GS-TT1] 地震地質與新期構造

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Yu-Heng Tai, Kuo-Hsin Tseng, Chung-Pai Chang

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[GS-ER] 地熱能源、碳封存與地質處置場址調查

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[GS-ST1] 地層與古生物研究
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Chien-Hsiang Lin, Singh Ningthoujam Premjit, Sehgal Ramesh Kumar, Singh Abhishek Pratap, Devi Konsam Nildy, Angmo Rigzen, Nazir Haroon, Patnaik Rajeev, Sharma K. Milankumar

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利用影像辨識系統探索微體化石在空間中的分佈與應變分析的潛力——TPS 31A 同步輻射光束線應用於泥岩樣本掃描

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盧昱蓁、汪良奇、Abdur Rahman、梁茂昌

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大雪山天池沉積物內矽藻與有機物分析所揭示之千年來水文環境變遷

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[GS-ST2] 第四紀地質學與考古地質學
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[GS-ST3] 2025 年臺灣第四紀暨東南亞第四紀研討會議 -
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Controls of modern benthic foraminiferal assemblage distribution in the Tainan coastal area revealed through cluster and canonical correspondence analysis
Jen-Chu Yeh, Li Lo, Chih-Wei Chien, Tien-Shun Andrew Lin

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[GS-ST4] 2025 年臺灣第四紀暨東南亞第四紀研討會議 -
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[GS-ST5] 2025 年臺灣第四紀暨東南亞第四紀研討會議 -
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Enhanced Kuroshio influence during ~1.9–1.5 Ma revealed by well-preserved planktonic foraminiferal assemblages and geochemical evidence from the Gutingkeng Formation in Kaohsiung City, Taiwan

Jui-Chi Fan, Chin-Hua Wang, Li Lo, Chuan-Chou Shen, Horng-Sheng Mii, Ludvig Löwemark, Shun-Wen Yu

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利用東海陸棚沉積物重建近兩千年東亞季風與極端氣候變化
黃敏嘉、潘惠娟、陳明德、許婷嬋

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[GS-GC2] 氣候變遷下的海陸交互作用觀測
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What causes rapid terrestrial permafrost mobilization—and how? Tracing sources with compound-specific radiocarbon analysis of biomarker

Tsai-Wen Lin, Tommaso Tesi, Jens Hefter, Hendrik Grotheer, Gesine Mollenhauer

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Pin-Yun Lin, Chin-Wen Wang, Raju Kumar Sharma, Gobinda Dey, Chien-Yen Chen

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[GS-SG1] 文化資產保存中的地質科學 Geoscience for Culture Heritage Conservation

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[GS-V1] 一般地球化學 General Geochemistry

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Pin-Ru Huang, Huai-Jen Yang, Yi-Fei Hsiao, Chia-Ju Chieh, Li-Yun Huang

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Reservoir sizes of the CL hot spring sites: Inference from spring water compositions

Yi-Fei Hsiao, Huai-Jen Yang, Pin-Ru Huang, Chia-Ju Chieh, Li-Yun Huang

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[OCPC-B] 海洋生物/漁業

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[OCPP-B] 海洋生物/漁業

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[OCP-B] 海洋生物/漁業

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[OCP-C] 海洋化學

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林彥伯、謝志強、黃國芳、何東垣

PP 389

OCP-C09

2024 年勵進研究船 CTD LARS 作業概況

劉全盛、許家維、陳虹榜、陳婷婷、郭芳旭、林聖心

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PP 390	OCP-C10 鐵和光強度對麒麟菜生長與光合作用效率的交互影響 吳玥慶、張睿昇、任昊佳、何東垣
PP 391	OCP-C11 臺灣周遭海域海洋沉積物碳匯在海洋藍碳中扮演的角色 廖紫馨、施詠嚴、洪慶章、洪湘晴
PP 392	OCP-C12 Distribution and variation of marine carbon sinks in coastal waters of Taiwan Min-Xun Wu, Syun-Han Wu, Chin-Chang Hung
PP 393	OCP-C13 Comparison of Primary Productivity Between Macroalgae and Microalgae in the Penghu Waters Sian Wu, Yung-Yen Shih, Xin-yu Hong, Chin-Chang Hung
PP 394	OCP-C14 台灣西南沿岸蚵場營養鹽及微量金屬與環境因子之關聯性 呂弘立、廖文軒、呂曉沛、蔡政翰
PP 395	OCP-C15 新海研二號貴重儀器中心海洋溫室氣體領域發展現況 范嵐楓、戴鈺涵、龔國慶、周文臣、曾筱君
PP 396	OCP-C16 澎湖海域溶解態有機碳量測技術與時空變化分析 陳聖侖、施詠嚴、洪慶章
PP 397	OCP-C17 建立水產動植物繁殖保育區溫室氣體及海水無機碳化學量測方法學研究 陳品均、周文臣、范嵐楓、曾筱君、周信佑、張馨巧、戴鈺涵、王欣怡
PP 398	OCP-C18 熱老化對口罩材質與環境污染物吸附的影響 王嘉萍、許瑞峯

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PP 399	OCP-P01 Seasonally-reversed trends in the subtropical Northwestern Pacific linked to asymmetric AMO influences Lin Yong-Fu, Wu Chau-Ron, Yu Jin-Yi
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海報展示

[OCPP-P] 海洋物理
Physical Oceanography

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南灣海域水文特徵觀測及數據展示
林欣妮、陳少華、程嘉彥、陳世明 |
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貢寮珊瑚養殖池之海水二氧化碳分壓預測模型
鄭郁萱、楊智傑、周文臣 |
| PP 402 | OCPP-P04
同化衛星水位高對臺灣週遭海域流場模擬之影響
陳世明 |
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Shao-Hua Chen, Ying-Chih Fang, Shi-Ming Chen |
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整合群集分析與颱風動態特徵探討測流雷達與漂流浮標徑向流速偏差之時空變異
黃郁軒、程嘉彥 |

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[OCPP-MG] 海洋地質/地球物理
Marine Geology & Geophysics

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| PP 405 | OCPP-MG01
Resolving morphological variability of Globorotaloides hexagonus and its link to Oxygen Minimum Zones.
Arpita Biswas, Yu-Hsin Huang, Shraddha Band, Raj S I S Poddar, Julie Meilland, Nicolaas Glock, Jeroen Groeneveld |
| PP 406 | OCPP-MG02
於強流大深度水域進行精準採水及沉積物採樣技術
劉紹勇、邱朝聰、許家維、黃俊傑、陳虹榜、林聖心、郭芳旭 |
| PP 407 | OCPP-MG03
研究船塢修期間的海床測繪參數檢測作法
劉紹勇、黃俊傑、許景翔、賴國榮、林聖心、郭芳旭 |
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PP 410	OCPG-MG06 新竹與苗栗外海離岸風力發電潛力場址之地質風險 陳憶萍、許鶴瀚、張頌平、蘇志杰、林育璿、王明、徐達偉、徐聖婷、陳松春、林依蓉
PP 411	OCPG-MG07 2024 年「勵進」科普軌跡 張宛婷、吳騏
PP 412	OCPG-MG08 七股潟湖之表層沉積物有機碳含量與粒徑時空分析 何佳怡、許介璋、韓沁璇、楊仁凱、劉祖乾、張詠斌、歐承侑、張仲傑
PP 413	OCPG-MG09 從空間到時間：非破壞性岩心分析於沉積物來源轉變的應用 陳婷婷、尤柏森、楊仁凱、劉祖乾
PP 414	OCPG-MG10 研究船靠泊國外港口之必要性與流程概述 廖庭雅、吳書恒、羅穎
PP 415	OCPG-MG11 勵進研究船岩心採樣系統服務發展現況 許家維、黃俊傑、尤柏森、陳婷婷、劉紹勇、邱朝聰、郭芳旭
PP 416	OCPG-MG12 海洋科學暨探測資料資訊安全管理 - 以「台灣海洋科技研究中心」為例 許友貞、林聖峯、曹昱仁、王楓鈞、賴國榮、黃奕霖、李昶緯

[EE] 永續發展觀點下的地球科學教育與傳播

Earth Science Education and Communication from the Perspective of Sustainable Development

海報展示

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EE-PP01

圖書館就是我的實驗室：簡易海洋浮游動物觀察的科學家體驗

張宛婷、劉名允、王豐寓、劉全盛、吳騏

PP 419

EE-PP02

提高原民文化親近感：大學生對原住民族傳統知識保存之態度研究

李育諭、王宏仁、巴清雄、王梅香、許家豪

PP 420

EE-PP03

Locating Flood-Prone Areas in the Gembong Watershed by Mapping Surface Runoff with ArcSWAT

Farhan Akbar Darma Putra, Donny Harisuseno, Riyanto Haribowo

[GW] 第 17 屆地下水資源及水質保護研討會

2025 17th Conference on Groundwater Resources & Water Quality Protection

海報競賽

[GW-01] 跨域整合架構：地下水資源管理與水質保護 Cross-Disciplinary Integration Framework: Groundwater Resource Management and Water Quality Protection

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PP 065

GW-PC01

From Canals to Groundwater: A Geophysical and Hydrological Investigation in the Yilan Plain, Taiwan.

Hana Shafa Zakiah, Ping-Yu Chang, Jordi Mahardika Puntu, Ding-Jiun Lin

PP 066

GW-PC02

An Integrated Density-Dependent Flow and Solute Transport Model for Simulating Groundwater-Seawater Interaction and Nutrient Transport in Taoyuan Coastal Area

Huu-Duc Truong, Shih-Jung Wang

海報競賽

[GW-02] 創新技術：大數據和 AI 應用地下水資源及水文地質評估及預測

Innovative Technologies: Big Data and AI Applications in Groundwater Resource and Hydrogeology Assessment and Prediction

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PP 067

GW-PC03

基於水力掃描的輕量化卷積神經網路於三維水文地質參數反演之應用
周子硯、蔡瑞彬

海報競賽

[GW-03] 地下水水質保護技術創新：污染源追蹤與水質保護

Innovations in Groundwater Quality Protection: Pollution Source Tracking and Water Quality Safeguarding

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PP 068

GW-PC04

應用 Chelex-100 樹脂層析純化濁水溪沖積扇高鹽度地下水樣品之研究
郭芷晴、劉雅瑄、戴東霖、楊汶達

海報競賽

[GW-04] 地下水與氣候變遷：韌性思維與創新調適策略
Groundwater and Climate Change: Resilient Thinking and Innovative Adaptation Strategies

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GW-PC05

非飽和層地質材料對降雨與地下水位關係的影響

張子寬、陳瑞昇

PP 070

GW-PC06

Baseflow Index Dynamics and its Drivers from a Spatiotemporal Heterogeneity Perspective

HsinYu Chen, HsinFu Yeh

PP 071

GW-PC07

臺灣集水區水文記憶與遲滯特性分析

方廷睿、葉信富

PP 072

GW-PC08

AI-Powered Insights into Groundwater-induced Subsidence Future Trends under Climate Change in Yunlin County

Sumriti Ranjan Patra, Hone-Jay Chu

海報競賽

[GW-05] 地下水資源觀測技術：從傳統方法到創新技術的轉型
Groundwater Resource Monitoring Technologies: Transition from Traditional Methods to Innovative Techniques

展示日期：6/16-6/18

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GW-PC09

Transient Electromagnetic Prospecting for Hydrogeophysical Study in Southern Pingtung, Taiwan

Agung Nugroho Ramadhan, Ping-yu Chang, Jordi Mahardika Puntu

PP 074

GW-PC10

Characterizing Seismically-Induced Groundwater Level Fluctuations: 200 Hz Sampling Rate Observations at the Integrated Groundwater Observation System of Milun Fault During the 0403 Taiwan Hualien Earthquake

Agustina Shinta Marginingsih, Shih Jung Wang

海報競賽

[GW-06] 綠色基礎設施：地下水資源永續之自然解方

Green Infrastructure: Nature-Based Solutions for Groundwater Resource Sustainability

展示日期：6/16-6/18

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PP 075

GW-PC11

台灣丘陵、山區地下水庫可能場址探討

蔡承穎、徐國錦

海報展示

[GW-01] 跨域整合架構：地下水資源管理與水質保護

Cross-Disciplinary Integration Framework: Groundwater Resource Management and Water Quality Protection

展示日期：6/16-6/18

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PP 076

GW-PP01

八卦台地對周緣平原區地下水補注之研究

林宏奕、龔文瑞、李振誥

PP 077

GW-PP02

Hydrological observation in Dongsha Island: insights into the small atoll island groundwater dynamics

Feng-Hsin Hsu, Chih-Chieh Su, Yao-Li Chang, In-Tian Lin, ChunChing Lee, Yibei Liang, Huey-Ru Chen

海報展示

[GW-02] 創新技術：大數據和 AI 應用地下水資源及水文地質評估及預測

Innovative Technologies: Big Data and AI Applications in Groundwater Resource and Hydrogeology Assessment and Prediction

展示日期：6/16-6/18

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PP 078

GW-PP03

使用 Watermark 感射器研究濁水溪不同深度土壤含水量變化

陳建樺、溫志超

海報展示

[GW-05] 地下水資源觀測技術：從傳統方法到創新技術的轉型

Groundwater Resource Monitoring Technologies: Transition from Traditional Methods to Innovative Techniques

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GW-PP04

優化裂隙岩層混合網格建構流程

李奕賢、倪春發

海報展示

[GW-06] 綠色基礎設施：地下水資源永續之自然解方

Green Infrastructure: Nature-Based Solutions for Groundwater Resource Sustainability

展示日期：6/16-6/18

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PP 080

GW-PP05

應用流體力學作用於微水力發電

林子恆、溫志超

[AS-U] 大氣科學研究生研討會

Atmospheric Sciences Graduate Seminar

海報競賽

[AS-M1] 碩士班氣候動力領域 Masters Climate Dynamic

展示日期：6/16-6/17

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壁報板編號

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PP 001	AS-M1-01 Development and application of downscaling machine learning model in Taiwan based on data-driven framework Tseng Wen-Wei, Su Shih-Hao
PP 002	AS-M1-02 An analysis on the 2023/24 Amazon basin recorded drought Ping-Hao Liu, Chiung-Wen June Chang, Chi-Cherng Hong
PP 003	AS-M1-03 Characteristics of the South Asian High variability revealed by 200hPa geopotential height Po-Chia Chen, Mong-Ming Lu
PP 004	AS-M1-04 Aerosol Emission Shifts and Atmospheric Circulation in Detection and Attribution MIP Po-Hui Yeh, Yen-Ting Hwang
PP 005	AS-M1-05 Understanding the Dynamics of Subtropical Pacific Warming Pattern under Global Warming: A Comparison of Fully-Coupled and Ocean-Only Experiments in CESM1 An-Jou Lai, Yen-Ting Hwang
PP 006	AS-M1-06 The Role of Subtropical Clouds in Shaping Tropical SST Responses to Anthropogenic Aerosols Ruei-Jia Hu, Yen-Ting Hwang
PP 007	AS-M1-07 Spatial Variability of Water Stress in the Amazon Rainforest under Climate Change Yu-Ting Chiu, Min-Hui Lo
PP 008	AS-M1-08 An Entropy–Divergence Framework for Quantifying Predictability of Liouville flow Ray KUO, Kai chih Tseng

海報展示 / 競賽

Poster Display / Competition

海報競賽

[AS-M1] 碩士班氣候動力領域
Masters Climate Dynamic

展示日期：6/16-6/17

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| PP 009 | AS-M1-09
Synergy between Heatwaves and Urban Heat Island in Three Major Cities of Taiwan
Chu-Yi Chang, Min-Hui Lo |
| PP 010 | AS-M1-10
The Roles of Cloud Radiative Feedback and Shallow Cumulus in Convectively Coupled Kelvin Waves
Kan Yu-Chuan, Tseng Kai-Chih, Hsu Shih-Pei |
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A Simple Method for Quantifying Cloud-Fog Induced Reduction in Solar Radiation Using High Spatiotemporal Geostationary Satellite Data
Te-Yu Ou, Rong-Yu Gu, Yi-Shin Jang, Ching-Hung Shih, Tzu-Ying Yang, Min-Hui Lo |
| PP 012 | AS-M1-12
宜蘭冬季長期氣候降水特徵變化與未來推估
吳津享、蘇世顯 |
| PP 013 | AS-M1-13
利用現地觀測資料及 TReAD 再分析資料探討阿里山茶區的微氣候特徵
游杰庭、羅敏輝 |

海報競賽

[AS-M2] 碩士班天氣動力領域
Masters Weather Dynamic

展示日期：6/16-6/17

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| PP 014 | AS-M2-01
Examining Atmospheric Predictability Through Simple Nonlinear Models
Yi-An Feng, Kai-Chih Tseng |
| PP 015 | AS-M2-02
Environmental Factors Influencing the Precipitation Intensity of Outer Tropical Cyclone Rainbands
Yang Hsin-Yu, Yu Cheng-Ku, Lin Che-Yu |
| PP 016 | AS-M2-03
山陀兒颱風(2024)侵台路徑與強度變化之數值探討
蕭裕成、黃清勇 |
| PP 017 | AS-M2-04
評估盤古天氣系集在颱風預報的應用
莊舒婷、簡芳菁 |

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PP 018 AS-M2-05

嘉義地區夏季午後對流前兆之觀測研究
黃珮霖、蔡世樵、蔡嘉倫

PP 019 AS-M2-06

Performances of Regional Model for Prediction Across Scales (MPAS) in
Simulations of Typhoons impinging Taiwan
Jun-Jia Su, Ching-Yuang Huang

展示日期：6/16-6/17

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PP 020 AS-M3-01

解析高雄 VOCs 於氣膠與臭氧中之共生成機制
林佳欣、蕭大智

PP 021 AS-M3-02

探討冬季高雄地區氣膠光學特性對輻射強迫之影響
吳旻翰、蕭大智

PP 022 AS-M3-03

利用長短期記憶模型提升嘉義地區能見度預測之準確性
翁語晨、蔡世樵、陳致穎

[AS-C] 全國大氣科學學術研討會

National Atmospheric Sciences Conference

海報展示 [OC-AS] 海洋聯合實驗整合性研究 (海洋與大氣聯合議程) Integrated Study on Ocean-Atmosphere Joint Experiments

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PP 023 **AS-C01**
桃園高頻陣列雷達之海象監測服務
尤心瑜、鄭皓元、錢樺、張煥盟

海報展示 [AS-AW] 進擊暖化下的天氣與氣候 Weather and Climate in Advancing Warming

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PP 024 **AS-C02**
雲林農村地區勞動者之熱危害風險量化評估分析與預警
邱泰嘉、莊振義

PP 025 **AS-C03**
Possible Causes for the Unprecedented low/high Tropical Cyclone Activities in the Northern Pacific/Atlantic in 2023 El Niño
Kuan-Chieh Chen, Chi-Cherng Hong, Chi-Chun Chang, Jun Chiang, Sheng-Hsiang Chang

PP 026 **AS-C04**
Meteorological Drivers and Agricultural Drought Diagnosis Based on Surface Information and Precipitation from Satellite Observations in Nusa Tenggara Islands, Indonesia
Gede Dedy Krisnawan, Tang-Huang Lin

PP 027 **AS-C05**
Do CMIP6 HighResMIP Models Perform Better for the Global Monsoon?
Jun Chiang, Chi-Cherng Hong

PP 028 **AS-C06**
評估颱風干擾下亞熱帶台灣的狼尾草(Pennisetum purpureum)碳捕捉潛力：基於田間 CO₂通量的渦流相關監測
施郁庭、周崇光、陳奕穎、李姿蓉

PP 029 **AS-C07**
Evolution of Atmospheric Energy Budget under Global Warming Linking to the Changes of Walker Circulation
Yong-Jhih Chen, Yen-Ting Hwang

海報展示

[AS-AW] 進擊暖化下的天氣與氣候

Weather and Climate in Advancing Warming

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PP 030

AS-C08

Changing dynamics of Pacific subtropical cell and SST variability: weakened wind-ocean coupling under 21st-century warming in CESM2

Chieh-Ju Hsieh, Yen-Ting Hwang, Yu-Heng Tseng

PP 031

AS-C09

Intensification of Convectively-Coupled Kelvin Wave in a Warming Climate

Shih-Pei Hsu, Kai-Chih Tseng

海報展示

[AS-MM] 綜觀/中尺度氣象

Synoptic and Mesoscale Meteorology

展示日期：6/16-6/17

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PP 032

AS-C10

侵臺颱風之極端降水量與 BSISO 相關之探討

沈煒耀、洪志誠、江鈞

[SS] 2025 全國太空探索學生成果發表會

2025 Student Space Exploration Exhibition

海報競賽

[SEE-S] 太空探索學生競賽

Space Exploration-student competition

展示日期：6/18

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PP 001

SEE-S01

利用理論電漿化學模型解釋巨大噴流頂端觀測到的綠魅現象

賴諺謀、郭政靈、Yan-Lin Lai、黃泰瑩、Julio Urbina

PP 002

SEE-S02

Ionospheric Observations by Portable GNSS Receivers during the 2024 Solar Eclipse

Yi-ting Chen, Cissi Ying-tsen Lin, Chung-yu Shih

PP 003

SEE-S03

應用長短期記憶網絡(LSTM)於數位通訊系統之調變與解調：衛星通訊通道噪聲模擬與位元錯誤率評估

劉冠璘、林映岑、施重宇

PP 004

SEE-S04

應用於船舶通訊之 ESIM 天線追蹤技術效能分析

何承祐

PP 005

SEE-S05

使用 CFAR 偵測射頻干擾並使用自適應特徵子空間抑制演算法改善訊雜比

郭哲文、朱延祥

PP 006

SEE-S06

電離圖中定頻干擾的特性分析與抑制處理

謝沂臻、朱延祥

PP 007

SEE-S07

小型科研火箭飛行過程之三軸磁場計量測值模擬

鍾承訓

PP 008

SEE-S08

利用高頻雷達定位海上目標物船舶位置

林俊豪、朱延祥

PP 009

SEE-S09

e-Callisto Taiwan-NCU 測站之太陽無線電波爆頻漂率分析

洪庭萱、黃教禮、楊雅惠

PP 010

SEE-S10

太空天氣探測儀 (SWIP) 主結構設計與模擬驗證

呂庭儀

展示日期：6/18

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PP 012	SEE-S12 地磁模擬控制系統開發 林承佑、劉祐繁、邱奕中、張起維、楊雅惠
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[SEE-S] 太空探索學生競賽

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龔群傑、朱延祥

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Meng-Tse Yang, Wing-Huen Ip

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SEE-S61利用全球電離層圖研究大地震期間全電子含量變化
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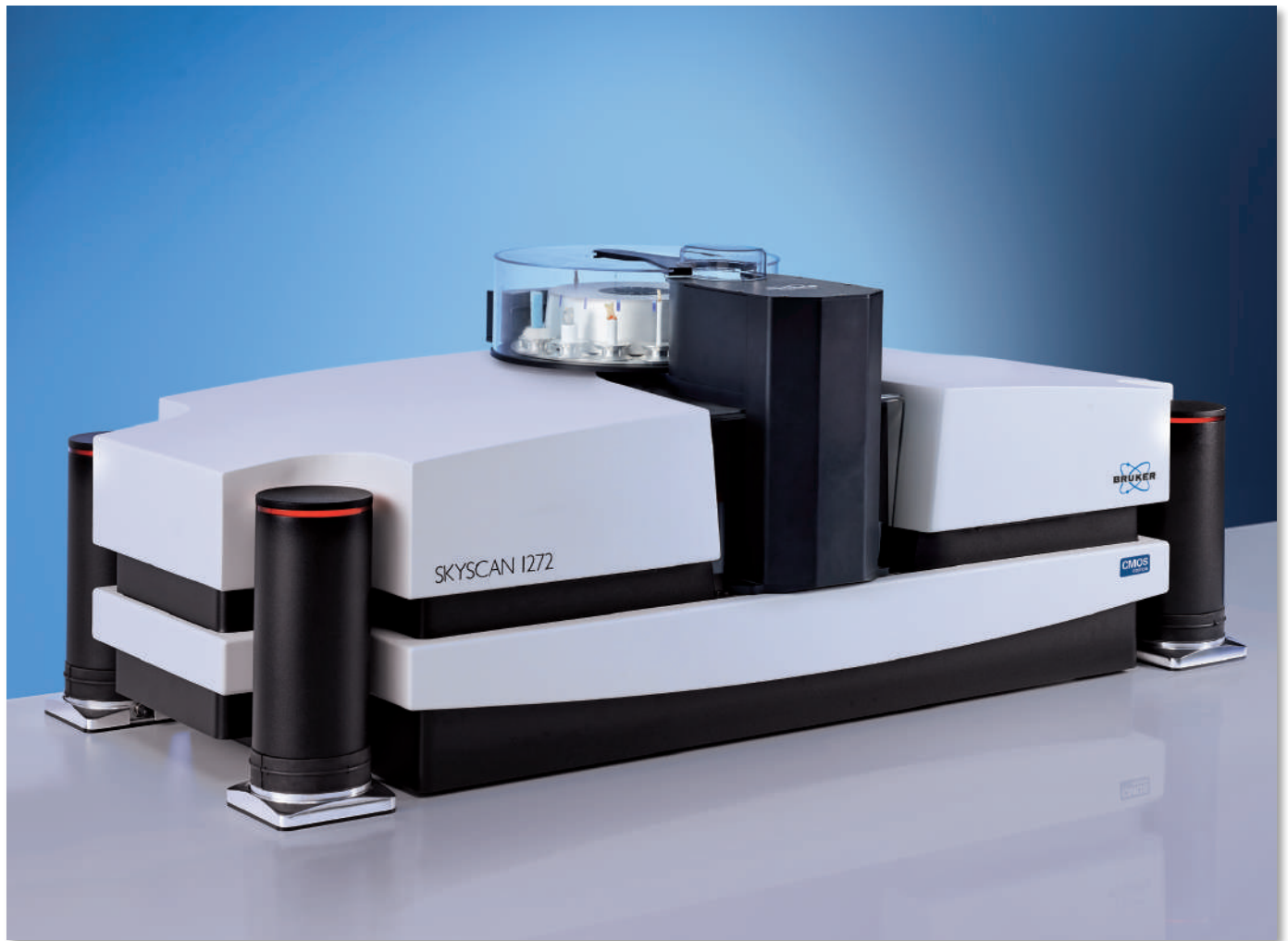
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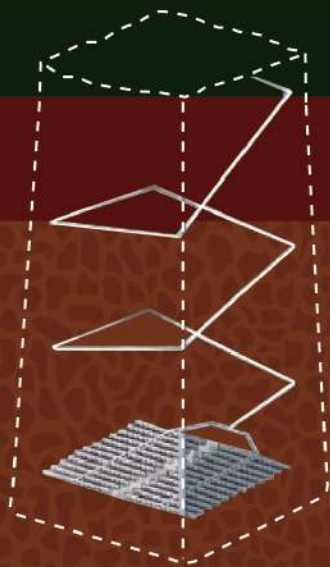
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