

出席國際學術會議報告書

本案申請人:羅祐宗
會議名稱:2013 亞洲大洋洲地球科學會議
會議地點:澳洲布里斯本
會議時間:2013/06/24~2013/06/28

航班狀態：

06 月 22 日 出發 台北(TPE)第二航站 2350 經濟艙(V) 空中巴士 330-300

06 月 23 日 抵達 布里斯班(BNE) 布里斯班國際機場 1025

06 月 30 日 出發布里斯班(BNE) 布里斯班國際機場 2250

07 月 01 日 抵達 台北(TPE)第二航站 0545 經濟艙(V) 空中巴士 330-300

會議內容：

當地時間 12 月 13 日 08:00 AM poster

題目：Gravity data inversion for 3D topography of the Moho discontinuity by separation of sources in Taiwan region

摘要

Taiwan is located at a complex juncture between the Eurasian and Philippine Sea plates. The mountains in Taiwan are very young, formed as a result of the collision between an island arc system and the Asian continental margin. To separate sources of gravity field in depth, a method is suggested, based on upward and downward continuation. Both new methods are applied to isolate the contribution of the Moho interface to the total field and to find its 3D topography. At the first stage, we separate near surface and deeper sources. At the next stage, we isolate the effect of very deep sources. After subtracting this field from the total effect of deeper sources, we obtain the contribution of the Moho interface. We make inversion separately for the area. In this study, we use the detail gravity data around this area to investigate the reliable subsurface density structure. First, we combine with land and marine gravity data to obtain gravity anomaly. Second, considering the geology, tomography and other constrains, we simulate the 3D density structure. The main goal of our study is to understand the Moho topography and sediment-crustal boundary in Taiwan area. We expect that our result can consistent with previous studies.

論文被接受發表之大會證明文件：

13/53

Gmail - AOGS 2013 Abstract Notification (659)



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AOGS 2013 Abstract Notification (659)

1 封郵件

AOGS Secretariat <info@asiaoceania.org>

2013年2月26日下午5:27

收件者： yutsunglo61@gmail.com, sosox_11@yahoo.com.tw, yenhy@earth.ncu.edu.tw



Tuesday, February 26, 2013

Dear Authors,

Congratulations! Your abstract has been accepted for presentation at the AOGS 10th Annual Meeting (AOGS2013) taking place from 24 to 28 June, 2013 at the Brisbane Convention & Exhibition Centre (BCEC), Australia. The review report is as shown. This and other meeting details - your presentation schedule, meeting registration, invoice, receipts, etc will be posted as they become available on your personal page on MARS.

SE29-A014 Tectonics of Philippine Sea Plate Region from Gravity Inversion

Yutsung LO, National Central University, Taiwan, H. Y. YEN, National Central University, Taiwan

Review Decision	Accepted
Comments	This paper is suitable for this session and accepted.

Please register and make payment by 23 April 2013. Failure to do so may result in the Abstract not being included in the conference program and any other publications printed for distribution at the conference.

Registration and Payment

Please check registration fee table at <http://www.asiaoceania.org/aogs2013/public.asp?page=register.htm> and note that discounted rate is only applicable for fees paid by 23 April 2013. Regular fees apply after this date.

1. Log in on MARS and click "Meeting Registration" from the left menu.
2. Complete the online form and make payment.
3. Online portal closes on 18 June 2013.
4. After 18 June, Late/Onsite fees apply and registration can only be done onsite.
5. Conditions apply - Please see also notes below.

Accommodation

Conference hotels are open for booking until 21 May 2013. Please check out details here: <http://www.asiaoceania.org/aogs2013/public.asp?page=hotel/hotel.asp>

Further Information

- Contact the Secretariat by email: info@asiaoceania.org
- Conference Venue Information: <http://www.asiaoceania.org/aogs2013/public.asp?page=venue.htm>
- Travel Visa Requirements: <http://www.asiaoceania.org/aogs2013/public.asp?page=visa.htm>
- Tourist Information: http://www.asiaoceania.org/aogs2013/public.asp?page=brisbane_nav.asp&page2=brisbane_essential.htm

Yours truly,

AOGS Secretariat

Notes:

1. The preliminary program will be posted on the website around 29 March, 2013.
2. The final program will be posted on the website around 21 May, 2013.
3. If your abstract has been assigned a poster presentation, please prepare your poster to fit the 2.4m high x 1.2m wide poster panel. For contributed talks, total duration is 15 min, including Q & A.
4. Book your hotel early. Special rate ends once room blocks are sold out.
5. Walk-in/payment onsite - **please note**: While every effort will be made to order adequate supplies (e.g. program books, conference bags, food & drinks, etc.), please understand that the issue of supplies are subject to availability of stock at the time of your walk-in/payment onsite.

會議心得：

此次參加 2013 AOGS 是我的第一次國際性研討會。出發前當然卯足了全力做海報，希望能盡力表現我的研究成果。在努力趕成果的過程中遭遇到很多挫折，但是也多虧顏老師與實驗室的大家給予的指教與討論，讓我在趕成果的過程中學習到很多做研究的精神。在這次 AOGS 的報告中遇到了許多大師級的人物給予許多改進的建議。

除了自己的報告之外，此去 AOGS 最不能放過的就是與多方學者討論。扣除自己報告的那天早晨，接下來的四天半等待著我們的是幾萬張的海報以及幾千場的 Talk。對於自己感興趣的主題，早在出國前就先做好功課，所以等到會議開始的時候，自己能立刻搜尋到而不會錯過任何一場報告。其中最感興趣的主題，還是在跟自己主要在進行的構造研究。希望此去的經驗可以幫助我在接下來的作品中多點幫助。

最後要感謝地物學會給我這個機會申請補助，節省家裡的負擔，一方面也讓自己能有充裕的心力去準備報告，免受經費不足之苦。這次的 AOGS Meeting 成果只是個初始，我相信有這次的機會與經驗，接下來我能夠更進一步的去改善我的方法與模型結果。