

# 2014 AGU Fall Meeting 心得報告

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會議名稱	2014 美國地球物理學會秋季會議
會議時間	2014/12/15 - 2014/12/19
會議地點	美國，加州，舊金山
發表題目	Numerical study for baroclinic tides modified by an oblique current

首先感謝老師細心指導及各方補助使得學生得以有機會發表研究成果。在此也特別感謝「中華民國地球物理學會」的經費補助，使學生得以順利參與此次會議。

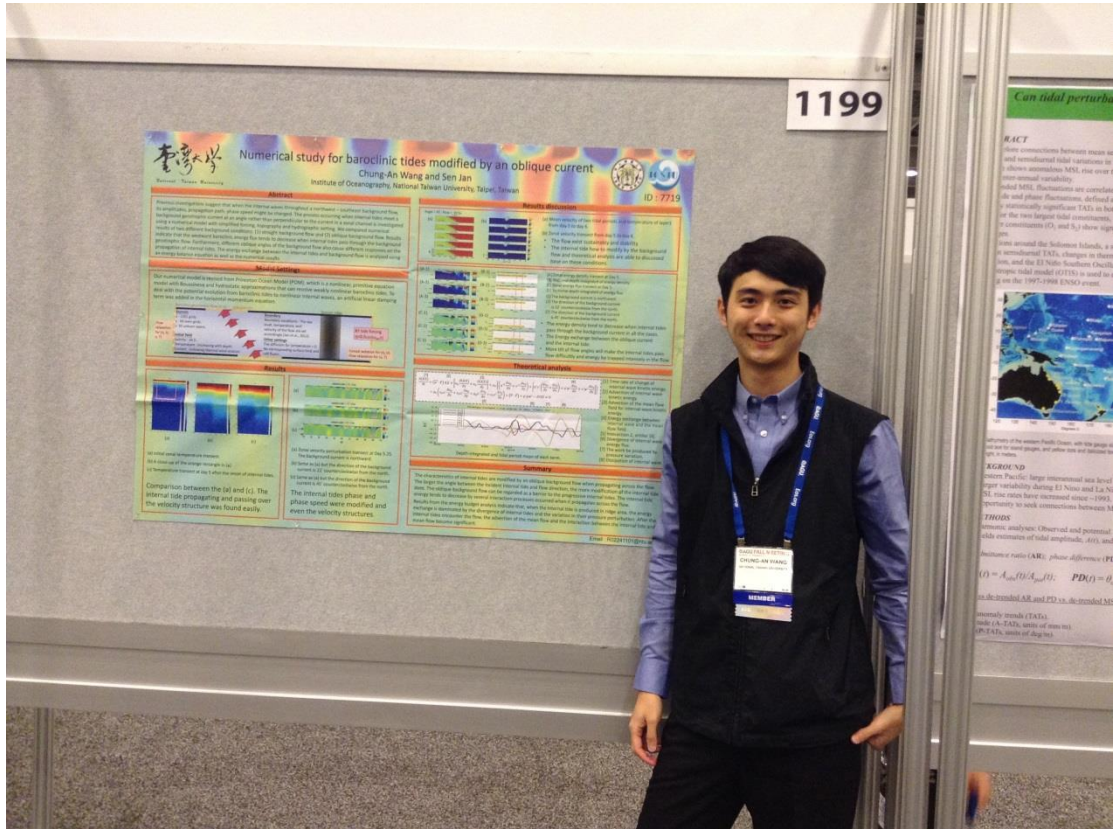
與會心得：

2014 年美國地球物理學會秋季會議依照官網公布有將近 24000 人次參與，為全世界規模最大的地球物理及太空科學相關會議之一。參與該會議不但對於自己的研究領域能有所提升，更有機會了解其他領域的發展，掌握目前研究的最新趨勢，以利研究內容的升級並更能與世界接軌。

在本次會議中學生是以 Poster 展示研究成果，海報的展示不但能讓來自世界各地的專家學者了解自己的研究內容，更能經由提問與討論的方式了解研究的發展性，亦得到許多能使研究更加完備的寶貴意見，種種的回饋與建議都是沒有參加此會議無法獲得的重要資訊。除此之外觀看別人的海報內容也有助於了解相關領域目前的研究趨勢，以提升未來研究的品質。

除了海報的展示與觀摩，還特別參與了許多口頭報告的會議。其中特別是與研究主題最為相關的「Modeling and Observing of Tides and Waves in the Ocean II」會議，該會議中演講者們展示了許多地區性與全球性的數值模擬結果，及其研究的方法與成果，不但能讓我思考自己的研究與他人研究的相關性，更能讓我對該領域的研究有更多的想法，給予我諸多的啟發。

除此之外參加此會議對於語言能力的訓練也有相當程度的幫助，海報的說明與討論和到口頭會上聽取別人研究成果，以及整個會議期間英語會話與聽力的訓練都讓學生得到很難得英語學習經驗。



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**Numerical study for baroclinic tides modified by an oblique current**  
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**ABSTRACT**  
 Baroclinic tides are the most important component of the tidal signal in the ocean. In this study, we investigate the effect of an oblique current on the baroclinic tide. The results show that the oblique current can modify the baroclinic tide in a non-linear way. The internal tide propagation and phase speed are also affected by the oblique current. The internal tide propagation and phase speed are also affected by the oblique current. The internal tide propagation and phase speed are also affected by the oblique current.

**INTRODUCTION**  
 Baroclinic tides are the most important component of the tidal signal in the ocean. In this study, we investigate the effect of an oblique current on the baroclinic tide. The results show that the oblique current can modify the baroclinic tide in a non-linear way. The internal tide propagation and phase speed are also affected by the oblique current. The internal tide propagation and phase speed are also affected by the oblique current.

**MODEL SETUP**  
 The numerical model is based on the Princeton Ocean Model (POM), which is a three-dimensional primitive equation ocean circulation model. The model is used to simulate the baroclinic tide in the presence of an oblique current. The model is used to simulate the baroclinic tide in the presence of an oblique current.

**RESULTS**  
 The results show that the oblique current can modify the baroclinic tide in a non-linear way. The internal tide propagation and phase speed are also affected by the oblique current. The internal tide propagation and phase speed are also affected by the oblique current.

**THEORETICAL ANALYSIS**  
 The theoretical analysis shows that the oblique current can modify the baroclinic tide in a non-linear way. The internal tide propagation and phase speed are also affected by the oblique current. The internal tide propagation and phase speed are also affected by the oblique current.

**CONCLUSION**  
 The results show that the oblique current can modify the baroclinic tide in a non-linear way. The internal tide propagation and phase speed are also affected by the oblique current. The internal tide propagation and phase speed are also affected by the oblique current.

**ACKNOWLEDGMENTS**  
 This work was supported by the National Natural Science Foundation of China (grant number 41276001).

**REFERENCES**  
 Wang, C.-A., and Jan, S. (2014). Numerical study for baroclinic tides modified by an oblique current. *Journal of Geophysical Research*, 119, 1-12.

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**Can tidal perturbations**

**ABSTRACT**  
 These connections between oceanic and atmospheric tidal variations in a chosen oceanic MM, rise over time annual variability.

**INTRODUCTION**  
 Tidal perturbations are correlated with phase fluctuations, defined as statistically significant TAOs in the two largest tidal components, components (T1) and (T2) show significant.

**CONCLUSIONS**  
 The results show that the oblique current can modify the baroclinic tide in a non-linear way. The internal tide propagation and phase speed are also affected by the oblique current. The internal tide propagation and phase speed are also affected by the oblique current.

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