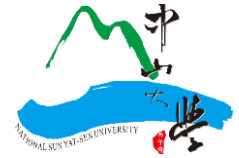




國立中山大學 NSYSU



「新海研 3 號研究船」出海作業申請單

Cruise Application Form for R/V NOR3

- 國科會計畫 NSTC Project 海上實習 Oceanographic Cruise Practice
 建教委託計畫 Government or Industry Commissioned Project 其他 Other

航次編號 Cruise No.		申請單位 Affiliation (PI)		申請日期 Apply date	
計畫主持人 PI		計畫名稱 Project title			
領隊 Cruise leader		服務單位/職稱 Affiliation/Title (Cruise leader)		電話/手機 Phone / Mobile phone	
電子郵件 Email					
國科會計畫人員 (Participants sponsored by NSTC projects) :					
非國科會計畫人員 (Participants not sponsored by NSTC projects) :					
學生 (Students) :					
備用人員(國科會/非國科會計畫人員/學生) (Step-in personnel) :					
新海研 3 號探測人員 (Surveyors) : 廖允強、林濔暉、徐建成 (filled by the R/V NOR3 Office)					
探測海域 (Survey area) : <input type="checkbox"/> Yes <input type="checkbox"/> No 超過臺灣 24 海浬 (beyond 24 NM from Taiwan)					
探測作業時間 (Survey time) : <input type="checkbox"/> 24 小時輪班 (24 hours) <input type="checkbox"/> 06:00-24:00 (the shifts will be organized by the Senior Surveyor)					
自備探測儀器 (Own instruments) :					
預定作業期間 Cruise time	From YYYY 年 MM 月 DD 日 hh 時 離高雄港 (Leaving Kaohsiung Port) To YYYY 年 MM 月 DD 日 hh 時 靠高雄港 (Arriving at Kaohsiung Port) 共計 (For a total of) ____ 日 (days)				
當(返航)日備晚餐 Dinner upon arrival	<input type="checkbox"/> Yes <input type="checkbox"/> No	特殊需求 Special request	素 (Vegan), 豬 (no pork), 牛 (no beef)		
Application Instructions Before the cruise					
1. PI or the cruise leader should submit the application form to the R/V NOR3 Office at least 14 days before departure.					
2. When combining commissioned projects with others, the allocated ship time should be clearly stated.					
3. Eligible cruise leaders for NSTC-funded cruises are assistant professors, research vessel technicians, or					

individuals holding equivalent or higher positions.

4. The maximum number of boarding personnel for one-day round trips and overnight voyages is 9.
5. Due to customs clearance scheduling, personnel changes are not accepted **within 5 working days** before departure (for example, if departing on a Friday, changes are not accepted starting from the previous Friday). It is recommended to have step-in personnel for flexible arrangements.
6. It is mandatory to use the **C-Planner**, a tool provided by the ODB, for cruise planning:
<http://odbwms.oc.ntu.edu.tw/odbintl/rasters/cplan/>
7. Students joining the cruise for the course of "Oceanographic Cruise Practice" must complete the "**Checklist of Safety Instructions for Water Activity, College of Marine Science, NSYSU**" and have it endorsed by the department chairman before submitting it to the R/V NOR3 Office.

During the cruise

1. Scientists working on the aft deck must wear **helmets, life jackets, and closed-toe work shoes** at all time in accordance with the safety regulations of the research vessel.
2. If the survey area encounters conditions such as wind force reaching level 7, large waves (with wave heights of 3 m or higher), total swaying exceeding 45°, or other special circumstances, the decision to proceed with operations will be determined through discussion between the Master and the Senior Surveyor.
3. Changes of navigation plans or survey operations:
 - (1) If the changes deviate from the content of the cruise application, including adjustments of station sequence, adjustments to survey areas, deployment of the work boat, diving, or any high-risk operations, the Master must complete the Onboard Risk Assessment Form (OR3C-07-11), which requires signatures from both the Master and the cruise leader.
 - (2) If the changes involve adjustments to station sequence and survey area, the cruise leader must provide reasons for the changes, the revised cruise plan, and the adjusted station coordinates to the Master as attachments for risk assessment.
 - (3) The Onboard Risk Assessment Form and attachments must be submitted to the R/V NOR3 Office for record-keeping before execution.
 - (4) In cases where sensitive/overlapping areas are not involved and the risk is low or manageable, the Master makes the final decision on whether to proceed.
 - (5) If changes involve sensitive/overlapping areas, besides the notification process to the R/V NOR3 Office, the documents mentioned in (2) must be submitted **24 hours in advance** to the Master, who shall initiate the communication process outlined in the "Response Protocol for Operation Safety of Research Vessels," notifying the NSTC and forwarding to the Ocean Affairs Council for record-keeping.

I have carefully read the instructions and agree to abide by the regulations.

Contact information

1. R/V NOR3 Office: Tel: (07)5255007, Email: or3@mail.nsysu.edu.tw
2. R/V NOR3: Tel: 0932-747-541, shipboard communication: VHF-16, SSB frequency: 2182; satellite phone: 009870-773-504-159.

計畫主持人 (PI)	船務 (R/V NOR3 Superintendent)	研究船管委會總幹事 (Manager, R/V NOR3 Management Committee)

國立中山大學 「新海研 3 號」 出海作業申請單 (附件)

NSYSU, Application Form for R/V NOR3 (Attachment)

預定探測航程作業大綱及航線規劃(包含各測站的預定抵達時間、探測作業內容、作業所需時數以及離開測站時間等，請詳述於本頁或是另頁書寫。務必要使用 ODB 的出海規劃工具 cplan <http://odbwms.oc.ntu.edu.tw/odbintl/rasters/cplan/>)

Please outline the survey operations and detailed navigation plan (including the expected arrival time at each station, details of the survey operation, the required duration for each operation, the departure time from each station, etc.) on this page or on separate pages. It is essential to use the C-Planner, a tool provided by ODB, available at <http://odbwms.oc.ntu.edu.tw/odbintl/rasters/cplan/>

本航次無敏感海域探測或採樣的點位。

There is no survey or sampling station in sensitive areas.

本航次含敏感海域探測或採樣的點位，已通過海委會跨部會協商會議同意執行：

There are survey or sampling stations in sensitive areas. The stations have been approved by the inter-agency consultation meeting at the Ocean Affairs Council.

預估進入敏感海域的位置 經度 ° E, 緯度 ° N, 時間 °

Expect to enter the sensitive area at ____° ____'E, ____° ____'N, at _____(time).

預估離開敏感海域的位置 經度 ° E, 緯度 ° N, 時間 °

Expect to exit the sensitive area at ____° ____'E, ____° ____'N, at _____(time).

測站位置 (含站位經、緯度及圖) :

Location of the stations (coordinates and maps):

本航次需隨船作業之須吊掛大型探測裝備器材清單及預計到達時間 (是否 安排吊掛作業) :
範例: 鐵籠 x 2 大型機械 x 1 預計 109 年 2 月 30 日 下午五點到船邊

List of large survey equipment to be hoisted on board for this cruise, and the expected arrival time
(crane operation is is not needed):

Example: Cages x 2, Large equipment x 1, expected arrival time at pier: 5 pm, Feb 30, 2020

國立中山大學 新海研 3 號隨船儀器設備申請表
Application Form for the Shipboard Instruments, R/V NOR3

申請單位 Affiliation		申請人 Applicant	
電話/分機 Phone/Ext.		電子郵件 Email	
計畫名稱 Project Title			
計畫類型 Project Type	<input type="checkbox"/> 國科會計劃 NSTC Project <input type="checkbox"/> 學生實習 Oceanographic Cruise Practice <input type="checkbox"/> 建教委託 Government or Industry Commissioned Project <input type="checkbox"/> 其它 Other		
作業性質 Operation Type	<input type="checkbox"/> 海洋物理 Phys. Oceanography <input type="checkbox"/> 海洋化學 Marine Chemistry <input type="checkbox"/> 海洋生物 Marine Biology <input type="checkbox"/> 海洋地球科學 Marine Geology <input type="checkbox"/> 其它 Other		
預計作業期間 Expected Op. time	From YYYY 年 MM 月 DD 日 hh 時 離高雄港 (Leaving KH Port) To YYYY 年 MM 月 DD 日 hh 時 靠高雄港 (Arriving at KH Port) 共計 (For a total of) _____ 日 (days)		
隨 船 作 業 標 準 設 備 Standard Shipboard Instruments			
<input checked="" type="checkbox"/> CTD (SBE 911 plus) <input checked="" type="checkbox"/> sbADCP (RDI ADCP 75KHz) <input checked="" type="checkbox"/> Single beam Echosounder (EA640, 12/38/200 kHz) <input checked="" type="checkbox"/> Multibeam Echosounder (EM712) <input checked="" type="checkbox"/> Weather station (air T, wind direction & speed) <input checked="" type="checkbox"/> Motion sensor (Seapath 380/MRU-5, GPS/GLONASS) <input checked="" type="checkbox"/> Large Rosette sampler <input checked="" type="checkbox"/> USBL (HiPAP-502) (under repair)		<input checked="" type="checkbox"/> 10 L Niskin bottles (24x) <input checked="" type="checkbox"/> Milli-Q machine <input checked="" type="checkbox"/> Deck PAR (Biospherical SPAR) <input checked="" type="checkbox"/> SCTD (SBE 21) <input checked="" type="checkbox"/> Surface transmissometer (C-star) <input checked="" type="checkbox"/> Surface fluorometer (WETstar) <input checked="" type="checkbox"/> Shipek grab <input checked="" type="checkbox"/> 2m Gravity-Corer _____ core liners	
需 申 請 設 備 Instruments Needing Application			
<input type="checkbox"/> LISST Holo (batteries covered by applicant) <input type="checkbox"/> LISST-100X (batteries covered by applicant) <input type="checkbox"/> LISST-200X (batteries covered by applicant) <input type="checkbox"/> 12L Go-Flo bottles _____ x (max. 24x) (default sampling bottles: 24x of 10-L Niskin bottles)		<input type="checkbox"/> Seapoint turbidity meter <input type="checkbox"/> Self-recording CTD (incl. fluorometer) <input type="checkbox"/> XBT (XBT probe covered by the applicant; contact the MIC, 07-5252000#5008)	
特殊設備(*申請技術員協助或確認申請人會使用) Special Instruments (*require support from the technician or experienced users)			
<input type="checkbox"/> MicroRider-1000* <input type="checkbox"/> VMP-250 *(under repair) <input type="checkbox"/> McLane Pump WTS-LV* (batteries covered by applicant) <input type="checkbox"/> 60 cm Multicorer MC600* <input type="checkbox"/> L-ADCP*		<input type="checkbox"/> 4m Gravity corer * _____ core liner <input type="checkbox"/> 6m Gravity corer * _____ core liner <input type="checkbox"/> DGPS (contact the MIC for availability, 07-5252000#5008) <input type="checkbox"/> SBP (Edgetech 3300) (causing interference with other shipboard acoustic instruments)	

<input type="checkbox"/> Sediment microsensors system* <input type="checkbox"/> Underway pCO ₂ analyzer (AS-P3)* (testing)	
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Note:

1. Please submit application for instrument or personnel support **at least 14 days** prior to departure to facilitate the scheduling of technicians and testing of equipment.
2. The insurance coverage of R/V NOR3 **does not include instruments deployed without tethering**. Applicants are responsible for any associated risks.
3. The NSTC-funded cruises have a maximum of **10 free liners** for the gravity corer. Applicants of non-NSTC-funded cruises are required to cover the costs of liners.
4. After using the Go-Flo bottles, users must **disassemble the sampling mechanism** and rinse them with fresh water (**not just rinsing the interior of the bottles**) on board or at port before the end of the cruise. This is to prevent salt buildup and erosion within the sampling mechanism. Failure to comply with this regulation will result in rejection of the request to use Go-Flo bottles.

技術員簽章

Signature by the technician

貴儀主持人簽章

Signature by the PI of the MIC project
