

The First 5 Years of R/V *Legend*

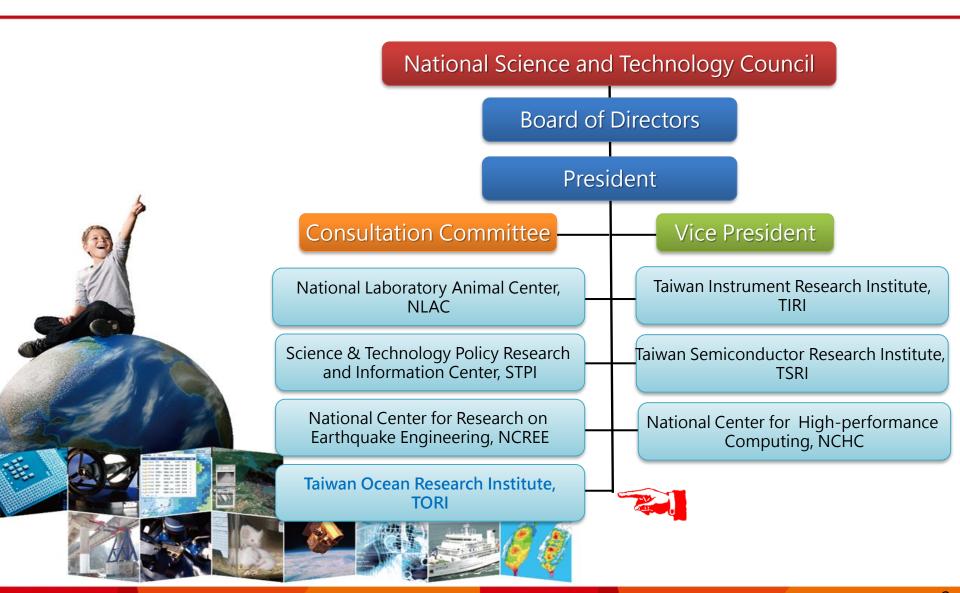
Research Vessel Operation Division

Jo Wu, Division Director

IRSO 2024



Organization of NARLabs





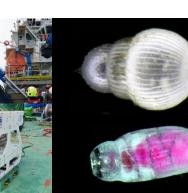
Core Missions of TORI













R/V Legend





Management

	語書號碼 Certificate No. DOC-18-008。 符合文件
	中華民選
DOCUME	ENT OF COMPLIANCE REPUBLIC OF CHINA
	國交通都委託中國驗船中心依照 今安全國際公均修正案之規定發給本文件
AT SEA, 1974, as amended, under the	FERNATIONAL CONVENTION FOR THE SAFETY OF LIFE authority of the Government of the REPUBLIC OF CHINA by R Classification Society
公司之名稱及地址: Name and address of the Company:	
財團法人國家實驗	b研究院 National Applied Research Laboratories
3F., No. 106, Sec. 2, Heping (# F, [SN Code #1.1.2#) (see paragraph 1.1.2 of the ISI	ig E. Rd., Da'an Dist., Taipei City 10622, Taiwan
公司織別碼 Company identification number :	4181950
Pollution Prevention (ISM Code) for the types o	
⟨S ≜3 Passenger ship-	化學改體制 Chemical tanker
高速 等 // Passenger high speed craft	表體運輸筋 Gas carrier
高速货物 Cargo high speed craft	海上移動式機採裝置 Mobile offshore drilling unit—
株 株 As Bulk carrier	其他資船 Other cargo ship
ib No Oil tanker	
本符合文件有效期限至 This Document of Compliance is valid until	· 但高接受定期评维。 subject to periodical verification.
本設書所依據之評鑑完成日期 Completion date of the verification on which this	is certificate is based July 26, 2018
各版技术	001, 20, 2010
Issued at Taipei	
發短日期 Date of issue August 09, 2018	
	CHH-MEN CHENG PERKED OF SIGNATION DOOR

		國際船舶保全證書	
		INTERNATIONAL SHIP SECURITY CERTIFICATE	
		兹由中華民國交通部委託中國職船中心依照	
		國際船舶和港口設施保全章程(ISPS章程)之規定發給本證書	
		Issued under the provisions of the P \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
		級書敬碼 Certificate No. ISSC-18-027	
	相名 Name of ship	勘達 LEGEND	
	船舶號數或信號 Distinctive numbe		
	斯籍港 Port of registry	Kaohsiung	
	船舶型式 Type of ship	Other Cargo Ship	
	總順位 Gross tonnage	2629	
	IMO编號 IMO number	9804100 財憲法人國家實驗研究院 National Applied Research Laboratories	
		对图法人國家實驗研究院 National Applied Research Laboratories ss of the company 3F., No. 106, Sec. 2, Heping E. Rd., Da'an Dist., Taipel City 10622, Taiwa	
	公司識別碼 Company identific	eation 4181950	
THI 1.	提明 ISIS TO CERTIFY: 本和工程全系统种任何相關工係全投債業已报[SYS章程A等分票18,1節之規定接級: that the security system and any associated security equipment of the ship has been verified in accordance with section 19.1 of cart A of the ISPS Code:		
	eaction 10 1 of no		
2	section 19.1 of pa		
2.	section 19.1 of pa	保全系統和任何相關之保全設備在各方面均令人滿意,且本船符合公约第XI-2章和ISPS:	
2.	section 19.1 of pa 驗證顯示本船之 稅A部分之適用者 that the verificatio	保全条纯和任何相關之保全役储在各方面均令人满意,且本能符合公约某XI-2章和ISFS1 未来; in showed that the security system and any associated security equipment of the ship is in all ony and that the ship complies with the applicable requirements of chapter XI-2 of the Convention	
2.	section 19.1 of pa 驗證顯示本報之 程A部分之適用易 that the verification respects satisfact and part A of the I 本船有一份级認	保全系统和任何相關之保全投稿在各方面均令人满意,且本和符合公约第31-2章和ISFS 4 表 5. a n showed that the security system and any associated security equipment of the ship is in all ory and that the ship complies with the applicable requirements of chapter XI-2 of the Conventio ISFS Code. T	
	section 19.1 of pa 驗證顯示本船之 程A都分之適用易 that the verificatio respects satisfact and part A of the I 本船有一份規認 that the ship is pro	保全角色种性何相類之保全投降在各方面均令人深意,且未能符合公约累别1-2章和ISFS1 表表: an showed that the security system and any associated security equipment of the ship is in all ory and that the ship complese with the applicable requirements of chapter XI-2 of the Convention 2017 2018. 2018 — The May 10 2018 — The Convention 2018 — The Conv	
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	section 19.1 of pa 驗發顯示本虧之 和An分之適用曼 that the verificatio respects satisfacta and part A of the I 本船有一份銀裝 that the ship is pro 本號書所依據之 Date of initial / ee 本從書有效期間	係全角熱种任何相類之係全役債在各方面均令人流意。具本都符合公约祭訂I-2章和ISFSI 表: a showed that the security system and any associated security equipment of the ship is in all ory and that the ship complies with the applicable requirements of chapter XI-2 of the Conventio ISFS Code; 可之「動態保全計畫」。 一次が機能促進期 newed verification on which this certificate is based August 10, 2018 - 世典核ISFS章和新企業 13, 1, 1 新成北新雄。 subject to verifications in accordance with section	
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	section 19.1 of pa 驗發顯示本虧之 和An分之適用曼 that the verificatio respects satisfacta and part A of the I 本船有一份銀裝 that the ship is pro 本號書所依據之 Date of initial / ee 本從書有效期間	係全角熱种性何相類之係全役債在各方面均令人滿意,具本都符合公约菜XI-2章和ISFSI 使用: a howed that the security system and any associated security equipment of the ship is in all ory and that the ship complies with the applicable requirements of chapter XI-2 of the Conventio ISFS Code; 可之 「動態保全付金」。 「以前域位性 mina proved Ship Security Plan. 上的文/崇码数据目期 memeric verification on which this certificate is based August 10, 2018 上型機能 ISFS章程系的 英 19.1.1 前规定验证。 subject to verifications in accordance with section 19.1.1 of part A of the ISPS Code.	
	section 19.1 of pa 驗發顯示本虧之 和An分之適用曼 that the verificatio respects satisfacta and part A of the I 本船有一份銀裝 that the ship is pro 本號書所依據之 Date of initial / ee 本從書有效期間	接全角能种性何相類之保全设备在各方面均令人满意。且未都符合公约器以I-2章和ISPS: 表: a showed that the security system and any associated security equipment of the ship is in all ory and that the ship complex with the applicable requirements of chapter XI-2 of the Convention STS Code, specially an approved Ship Security Plan. 加坡、操导接性证明 August 10, 2018 建筑性 18, 2018 August 10, 2018 建筑性 18, 2018 G设计数 Issued at Talpel 专证目标	

		海事勞工證書
		MARITIME I AROUR CEPTIEICATE
		中華民國 (註:本營書應附有海事券工薪合營報) REPUBLIC OF CHINA
	(Note: This Certifica	e shall have a Declaration of Maritime Labour Compliance attached)
	Issued under the prov	海事等工公约」(以下商稿「本公约」)第五條和第五樣趣的規定 接中華民國政府投程,由中國發動中心基督 sions of Article V and Title 5 of the Maritime Labour Convention, 2006 w as "the Convention") under the authority of the Government of the REPUBLIC OF CHINA by CR Classification Society
		談書號碼 Certificate No. MLC-18-079
		起舱受且 Particulars of the ship
	船名 Name of ship	勘進 LEGEND
	船舶號數或信號符字 Distinctive number or letters	015850 / BIBP
	船籍港 Port of registry	Kaohslung
	登记日期 Date of registry 统备在1	November 15, 2017
	RS 等位 Gross tonnage ¹	2629
	IMO編就 IMO number	9804100 7
	船舶型式 Type of ship	Special Purpose Ship
	船東名稿 Name of the ship owner	財團法人國家實驗研究院 National Applied Research Laboratories
	船東地址 ² Address of the ship owner ²	3F., No. 106, Sec. 2, Heping E. Rd., Da'an Dist., Taipei City 10622, Taiwan
1	(1)(c) 株。 For ships covered by the tonnage me	表面用包括的由基:逐渐应为包括在(图形相址图象(1989))"周江" 简单的选择在:关系企作第三倍 Insuranced Inteller subserve adopted by the ABO, the pros tomage is that which is included in the Tomage Centificate (1985). See Aftice Intigo of the Convention
2	Name of the Contention of the Government of the Contention of th	

The first research vessel carry out ISM/ISPS/MLC Code in Taiwan, actually it requires a long running-in period.

Equipment



> Gondola

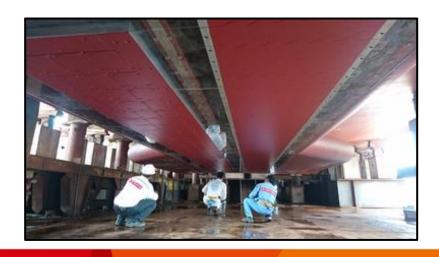
MBES: Kongsberg EM122/2040

SBES: Kongsberg EA600 SBP: Kongsberg SBP120

ADCP: Teledyne RDI 38/150 kHz

SSBL: Kongsberg HiPAP 102 GNSS: Kongsberg Seapath 380

> SRP, DP1







Main Deck

NARLabs

850 Securing Screw Holes

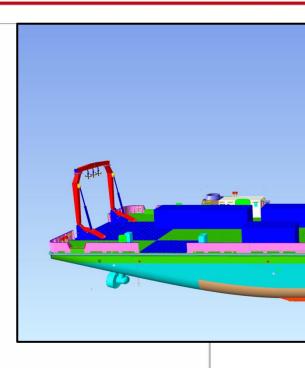


A-Frame

NARLabs





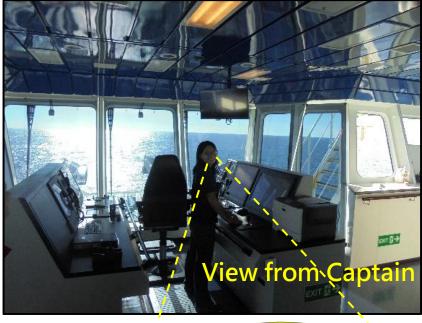




Bridge 360° View

NARLabs



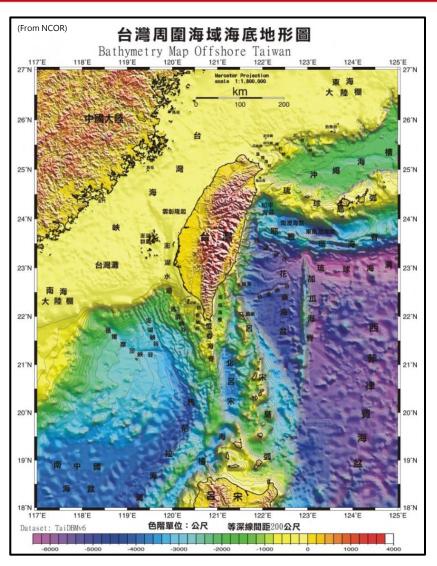


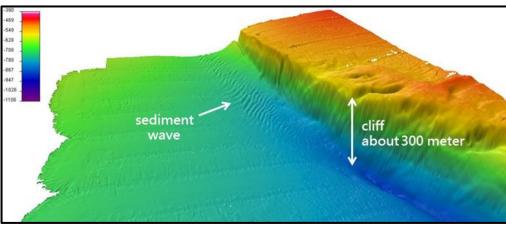




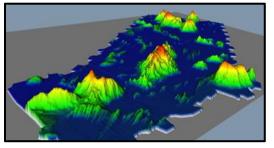
NARLabs

Sea Floor Mapping







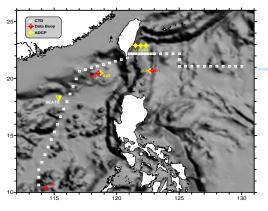


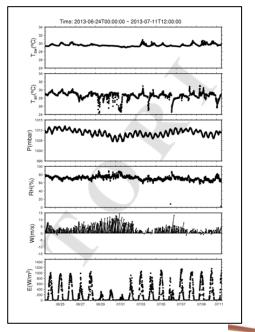




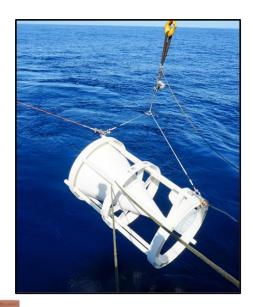
Mooring System















Seismic Survey(LMCS)



Remotely Operated Vehicle(ROV)



Modify(Before) CTD LARS

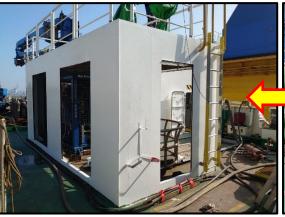




Modify(Underway) CTD LARS











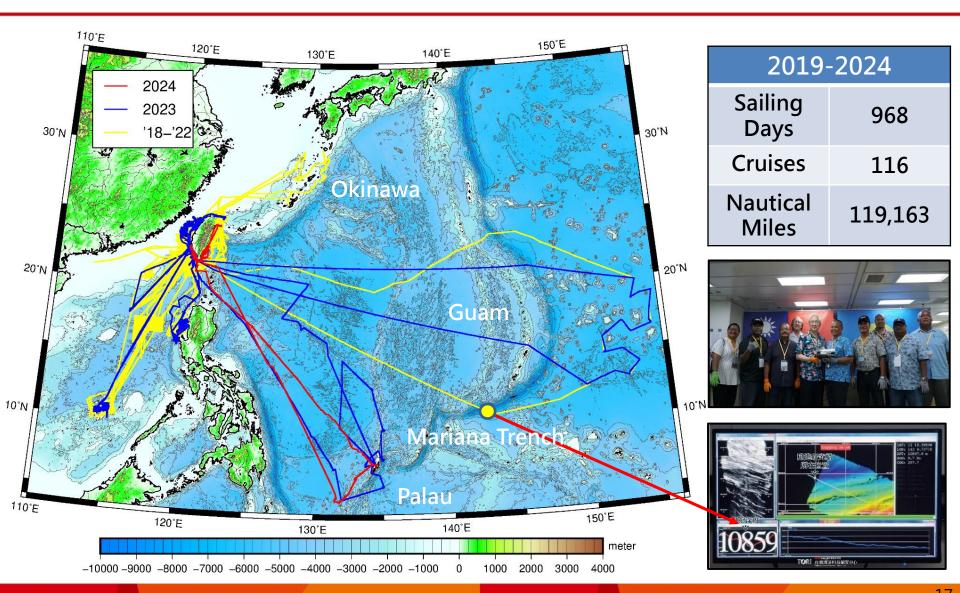
Modify(After) CTD LARS







Tracks over the past years



CONTACT US: +886-7-6986896 narlabs_tori@narlabs.org.tw



