公務出國報告

（出國類別：國際會議）

行政院海岸巡防署出席
「2011 年全球岸際監偵國際會議」出國報告

服務機關：行政院海岸巡防署
姓名職稱：科長　　耿英傑
　　　　　組主任　蘇泉謙
派赴國家：新加坡
出國時間：100 年 11 月 28 日至 30 日
報告日期：100 年 12 月 22 日

摘　　要

　　新加坡「國際品質創新中心」鑒於海盜事件頻傳，亟待各國參與研討海事安全對策，故規劃於 100 年 11 月 28 至 30 日假該國舉行「2011 年全球岸際監偵國際會議」，並邀請本署及相關國家人員擔任會議報告人，就海事監偵議題進行報告與討論。

　　考量派員參加可增加國際能見度與擴大聯繫網絡，且因無須負擔機票及住宿等費用，得以最小資源發揮最大效益，故派員出席並以「跨機關船資鏈結整合強化海域執法能量」為報告專題。

　　報告專題內容參考本署整合雷情、漁船船位監控系統（VMS）、船舶自動辨識系統（AIS）資訊，結合成功執法案例，彙整專案報告與他國進行經驗分享。經本署代表簡報說明，與會各國代表均對我國海域執法專業能力印象深刻，有效提升本署國際形象。此外藉由出席此國際會議，汲取北大西洋公約組織打擊海盜執法經驗與海盜犯罪趨勢，亦可提供本署執法策略參考。

目　錄

壹、背景說明

一、 新加坡「國際品質創新中心」鑒於亞洲地區海盜事件頻傳，亟待各國參與研討海事安全對策，故規劃於 100 年 11 月 28 至 30 日假該國舉行「2011 年全球岸際監偵國際會議」，並邀請本署及相關國家海事情報人員擔任會議報告人，就海事監偵與安全議題進行報告與討論。

二、 承辦單位考量我國海洋事務發展漸趨成熟，請本署指派 2 人出席以擴大參與層面與研討範圍。經審查主辦單位資料，案內會議具每年舉辦、多國參與、議題廣泛等特點，本署若派員參加將可增加國際能見度與擴大聯繫網絡，且本次會議主辦單位同意負擔本署 2 人出席者之機票及住宿等費用，將得以最小資源發揮最大效益，故派員出席。

三、 考量報告內容須以英文進行及海事安全議題相關性，規劃以「跨機關船資鏈結整合強化海域執法能量」為報告專題。

貳、會議及參訪紀實

一、出席會議情形（會議議程資料如附錄 1）

（一）辦理報到及會議開幕

（二）本署代表團於 11 月 28 日 0755 時啟程，於 1235 時抵達新加坡。

（三）11 月 29 日辦理報到並領取會議資料及名牌。

（四）同(29)日 0900 時舉行開幕式，由美國海軍西太平洋司令部後勤指揮官 Thomas Carney 少將致詞，開幕式結束後，本署出席人員致贈 Thomas Carney 少將文宣品並合影留念。

（五）本署代表團於 11 月 30 日 1025 時返國，於 1500 時抵達桃園。

二、本署報告「跨機關船資鏈結整合強化海域執法能量（如附錄 2）」，摘要如下：

（一）本署組織架構簡介。

（二）三大核心任務：海域執法、海事服務、海洋事務

（三）議題：

　　1、如何強化監控周遭海域活動及船舶動態？

　　2、如何以跨機關整合方式提升執行成效？

（四）Solutions 解決方案--跨機關船資鏈結

1、整合本署雷達資訊系統、農委會漁業署「漁船船位監控系統」及交通部「船舶自動辨識系統」。

2、本署雷達資訊系統介紹。

3、農委會漁業署「漁船船位監控系統」介紹。

全國登記安裝「漁船船位監控系統（VMS）」漁船數量計有二千四百餘艘，本署積極辦理農委會漁業署 VMS 相關船位資訊鏈結作業，並整合於「海巡雷達資訊系統」，將相關漁船船位資訊顯示於網路地理資訊系統（WebGIS），提供海巡署各級執勤單位運用。

4、船舶自動辨識系統介紹。

本署鏈結取得「船舶自動辨識系統」船舶點位、唯一識別碼、船名、呼號等相關資訊，並整合於本署雷情顯示平台，相關資訊可與雷情目標資訊結合，以提升商貨輪雷情目標識別資訊，能有效掌握臺灣本島周遭海域船舶航行動態。

(五)跨機關船資鏈結之效益

1、明確掌握遇難事故位置，迅速辨識海上目標，即時到達現場救援。

2、維護海上船舶航行安全。

3、完備建置船舶資料庫，俾利查詢運用。

4、整合船舶動、靜態資料，建立跨機關交換平台。

5、改善雷達身分賦予流程，減輕執勤人員負擔。

6、船舶資訊 e 化，提升海巡任務執行效能。

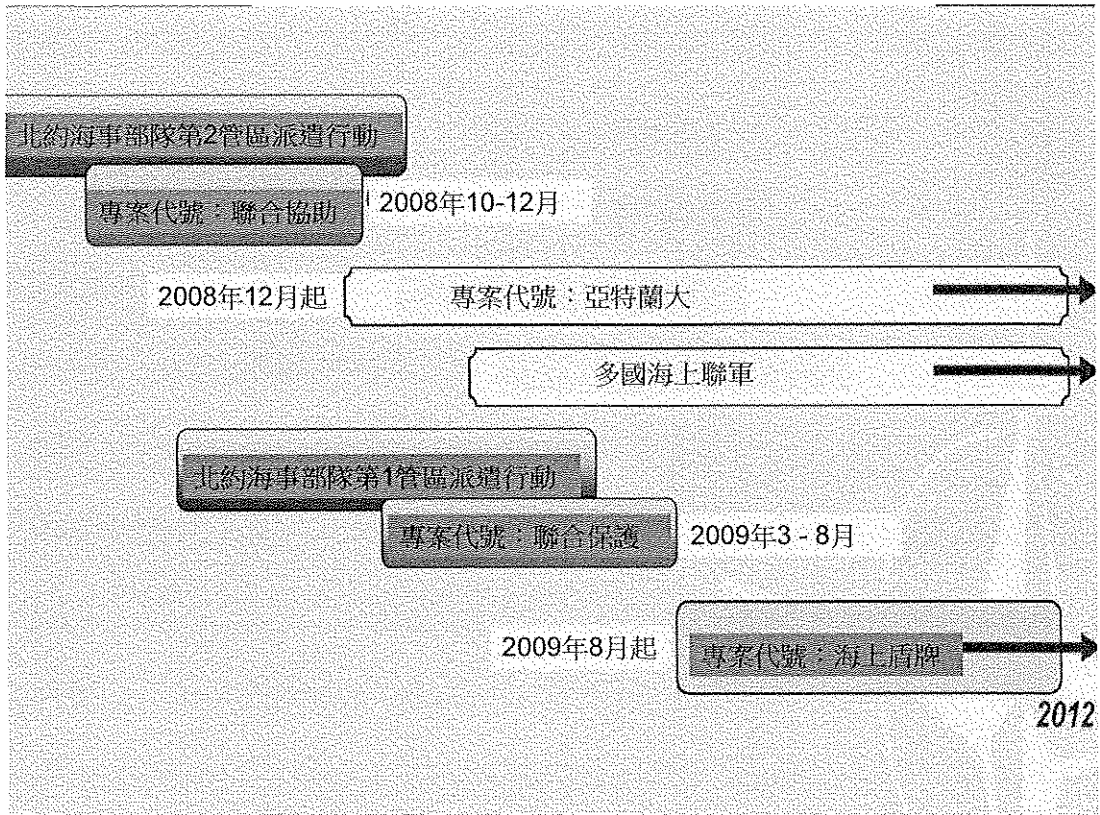(六)案例說明

本署以應處「興○○號」漁船遭商船碰撞事件為例,簡要說明船資鏈結整合於海域執法之實質成效。

三、聽取北大西洋公約組織(以下簡稱「北約」)里斯本指揮部(NATO Joint Forces Command Lisbon)資訊處長 David Wolfe 發表「北約反海盜行動」簡報,內容摘述如下:
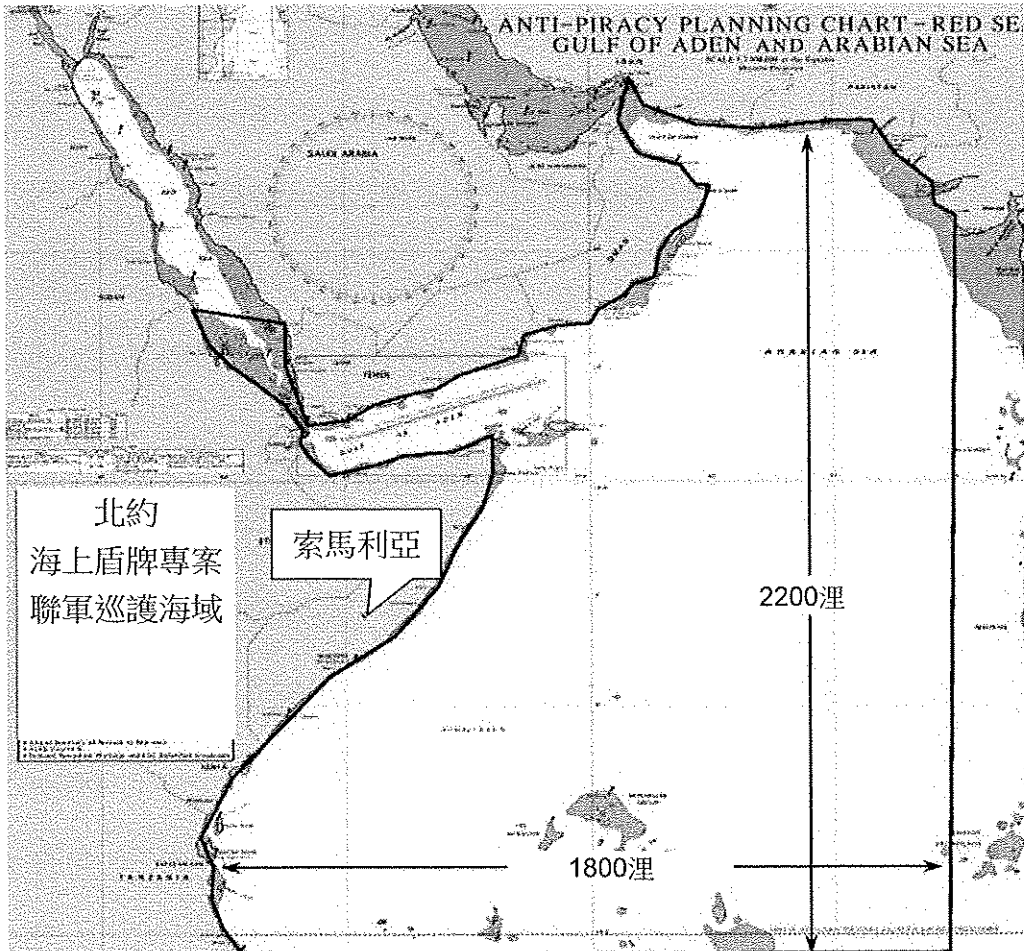
(一)海事安全重要性:

　　1、地球的 70%為海洋所覆蓋,而 80%全球人口居住在離海岸線 100 英哩以內的陸地。

　　2、全球 90%經濟活動與海運有關,其中 75% 的貿易往來必需經由少數易受攻擊的國際海峽水域。

　　3、在冷戰結束後,以海事安全最難以掌握,國際海域的威脅與北約各國安全息息相關,而海事安全仰賴可靠的海上武力提供穩定的海上執法能量。

(二)北約打擊海盜行動專案:

　　1、緣起:聯合國援助索馬利亞的糧食運輸船屢遭索國海盜挾持,為確保糧食運送安全,聯合國乃請求北約派艦保護,因此北約自 2008 年 10 月起執行「聯合協助」專案,派艦護送糧食運輸船,因成效良好,故接續辦理「亞特蘭大」、「聯合保護」、「多國海上聯軍」及「海上盾牌」等專案。

　　2、北約打擊海盜專案時序表:

北約海事部隊第2管區派遣行動

專案代號：聯合協助　2008年10-12月

2008年12月起　專案代號：亞特蘭大

多國海上聯軍

北約海事部隊第1管區派遣行動

專案代號：聯合保護　2009年3 - 8月

2009年8月起　專案代號：海上盾牌

2012

3、北約「海上盾牌」專案巡護海域

ANTI-PIRACY PLANNING CHART - RED SE
GULF OF ADEN AND ARABIAN SEA

北約
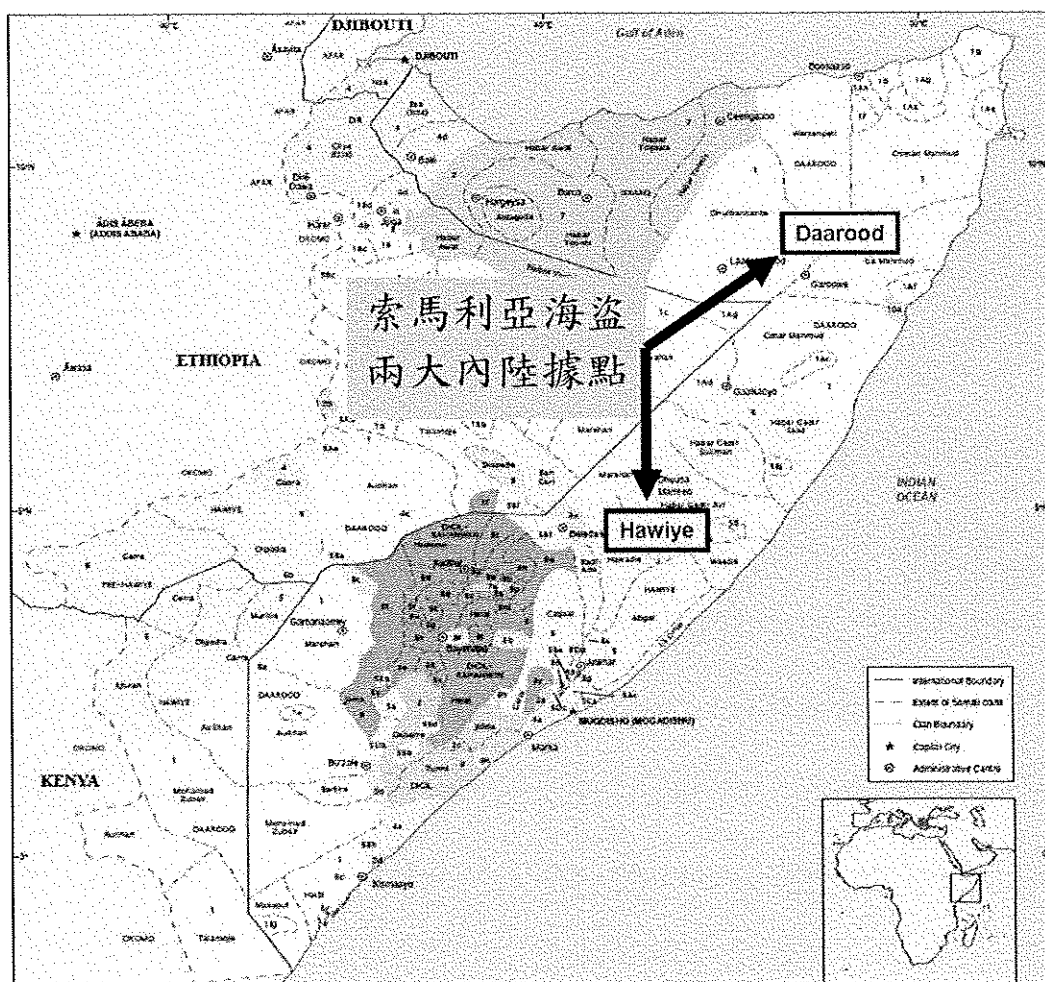海上盾牌專案
聯軍巡護海域

索馬利亞

2200浬

1800浬

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(三)北約打擊海盜策略：

    1、北約與歐盟共同合作。

    2、以海上軍事武力支援海事執法力量。

    3、整合國際組織情資。

    4、整合各國反海盜力量。

    5、發展區域反海盜力量。

    6、建構區域反海盜能量。

(四)索馬利亞海盜主要據點及其作案模式與活動範圍：

    1、主要據點：索馬利亞海盜主要分佈於該國境內的 Daar
ood 地區及 Hawiye 地區。如下圖：

2、作案模式及活動範圍：

（1）Daarood 地區的海盜集團：

活動範圍在亞丁灣、阿拉伯海及索國北部海域。約由5名武裝海盜搭乘1至2艘快艇組成作案集團，自北部的Puntland海岸出發，在海上隨機等候目標船隻，攻擊時間約不超過15分鐘，若無法登船則放棄。每次出海約3至4日，若使用被挾持母船亦可能在海上停留3至4週以上。
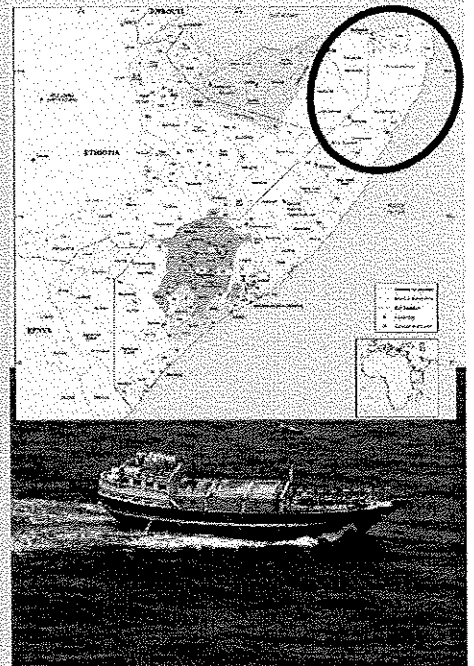
（2）Hawiye 地區的海盜集團

主要分佈在索國中部Hobyo及Harardheere地區，少數以南部Mogadishu及Kismayo地區為基地，活動範圍非常大，可遠及900浬外海域，每次出海約3至4週以上，近期多使用大型開放式母船支援攻擊行動，攻擊時間可持續數小時。

（五）索馬利亞海盜攻擊海域範圍分析：

以「標準離差橢圓」法分析海盜攻擊海域範圍，有明顯擴大趨勢，如下圖：

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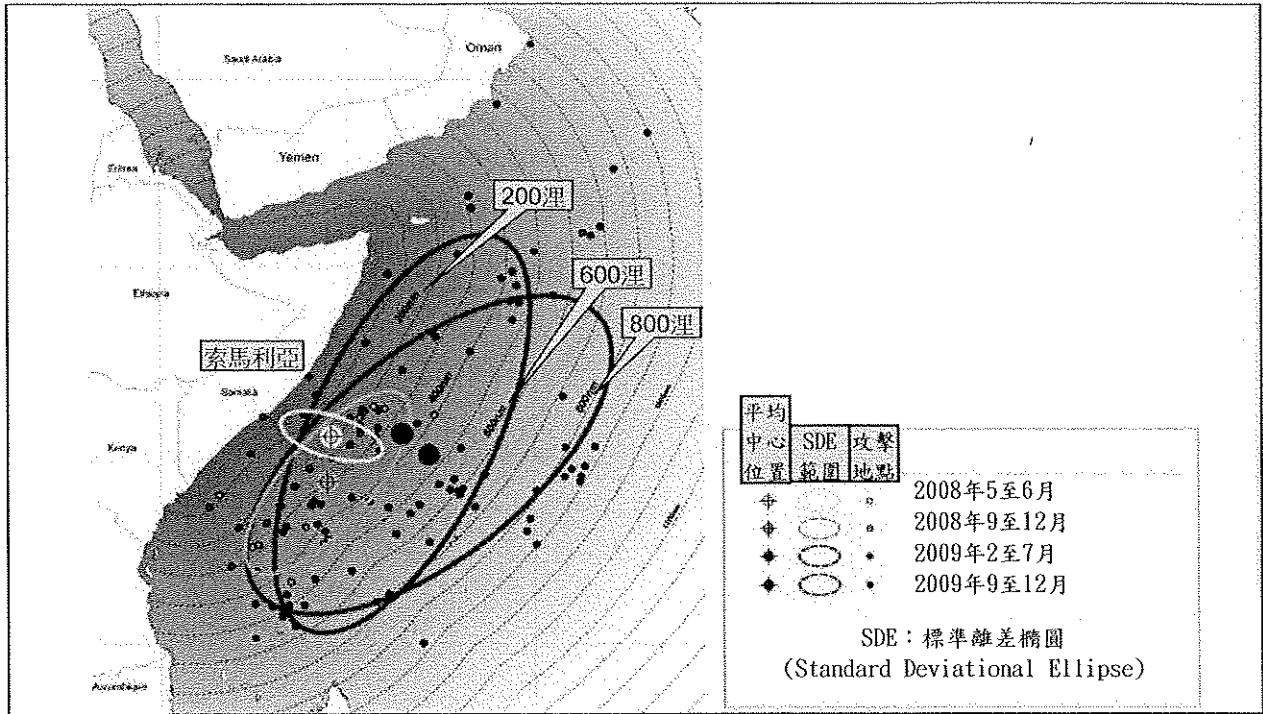
（六）索馬利亞海盜活動範圍擴張趨勢：

　　依年度分析海盜攻擊地點，可以看出海盜活動範圍逐年加

　　大，如下圖：
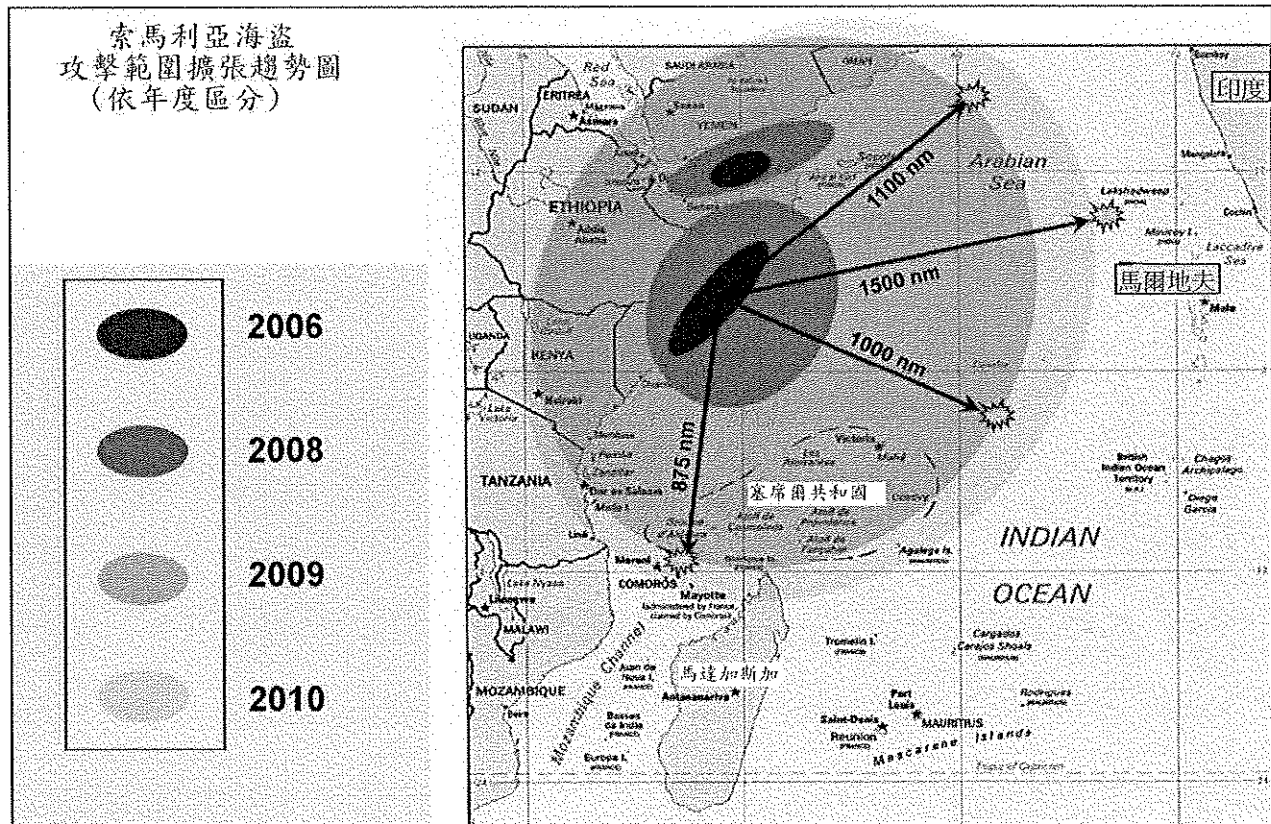
（七）亞丁灣海盜攻擊次數年度分析圖
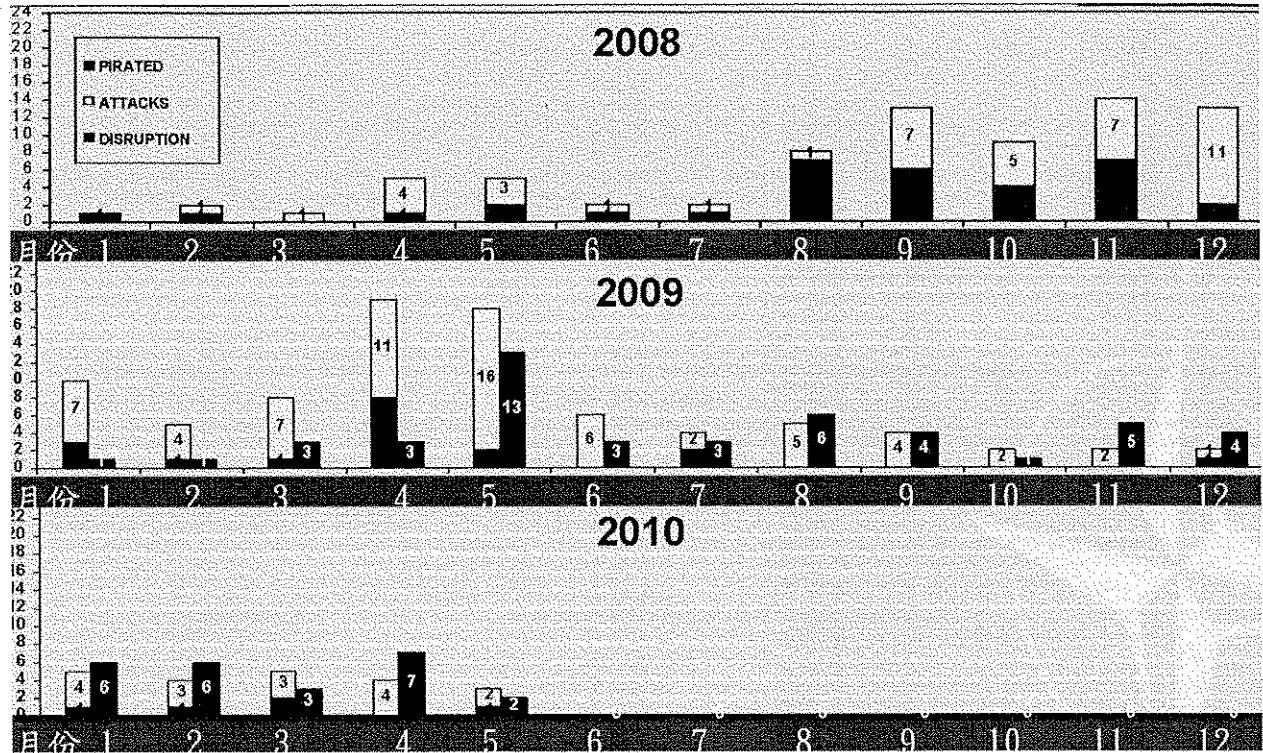
（八）遭遇海盜報案方式：提供船名、方位及攻擊行動摘要，並依以下優先順序報案：

1、英國海事貿易杜拜辦事處（THE UK MARITIME TRADE OPERATION DUBAI，簡稱 UK MTD），電話：+971505523215。

2、非洲之角海事安全中心（THE MARITIME SECURITY CENTRE HORN OF AFRICA，簡稱 MSCHOA），電話：+44(0)1923958547。

3、北約船運中心(THE NATO SHIPPING CENTRE)，電話：+44(0)1923956574。

4、國際海事局(THE INTERNATIONAL MARITIME BUREAU，簡稱 IMB)，電話：+60 3 2078 5763。

參、心得與建議

一、推展國際合作、促進海巡交流

　　本署專責海域及海岸執法工作，應加強與他國海域執法機關聯繫關係，始能提高執法效能，藉此會議的參與，得與各國海域執法人員緊密互動，交換經驗與心得，掌握全球海盜犯罪活動的型態與趨勢，不但達到會議的宗旨，亦對本署執法工作與國際外交有更進一步的助益，故宜持續運用機會參加國際有關會議，達到汲取國際犯罪調查新知及開展對外交流合作成效之目標。

二、強化專業能力、提昇國際形象

　　本署為有效掌握臺灣周邊海域船舶航行動態，除建置岸際雷達系統外，近年更經積極協調交通部、農委會漁業署等部會，陸續獲得「漁船船位監控系統（VMS）」與「船舶自動辨識系統（AIS）」等相關船舶動、靜態資料，建立跨機關資訊交換平台，擴大監控範圍，適時掌握海上各種突發或異常狀況，大幅提升本署執法能量，經本署人員簡報說明後，各國代表對我國海域執法專業能力均印象深刻，有效提昇國際形象。

肆、參訪活動照片紀實
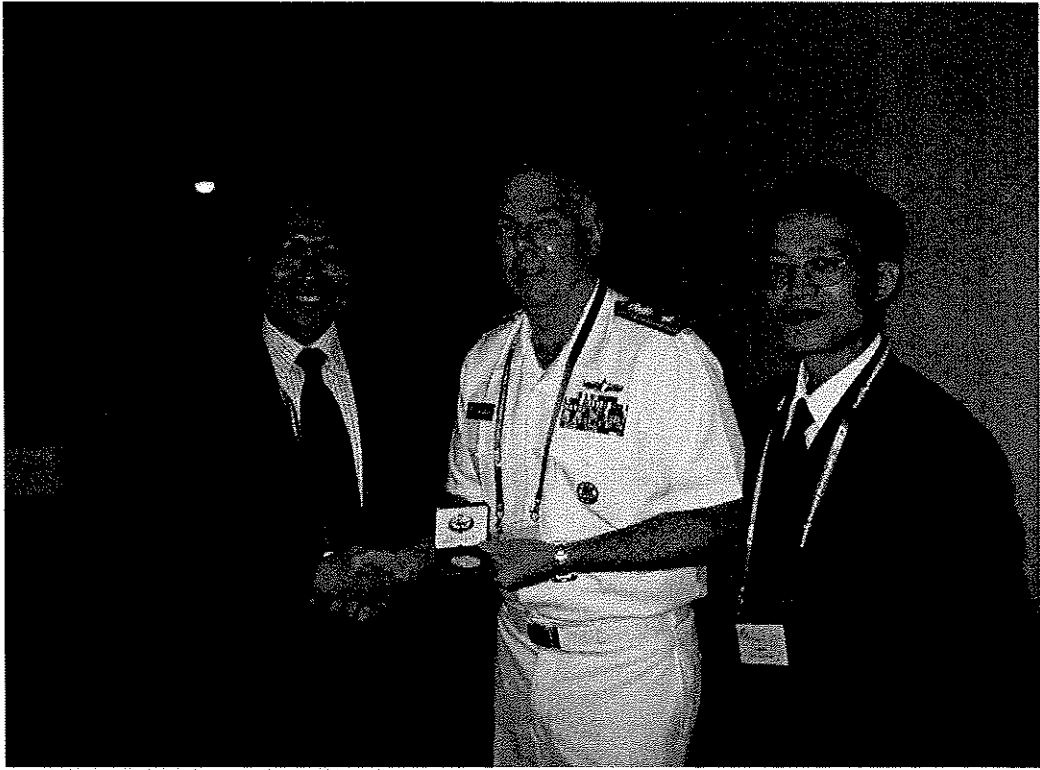
致贈會議主持人美國海軍少將 Thomas Carney 文宣品並合影留念

致贈主辦單位對本署聯繫窗口 Kelly 小姐文宣品並合影留念
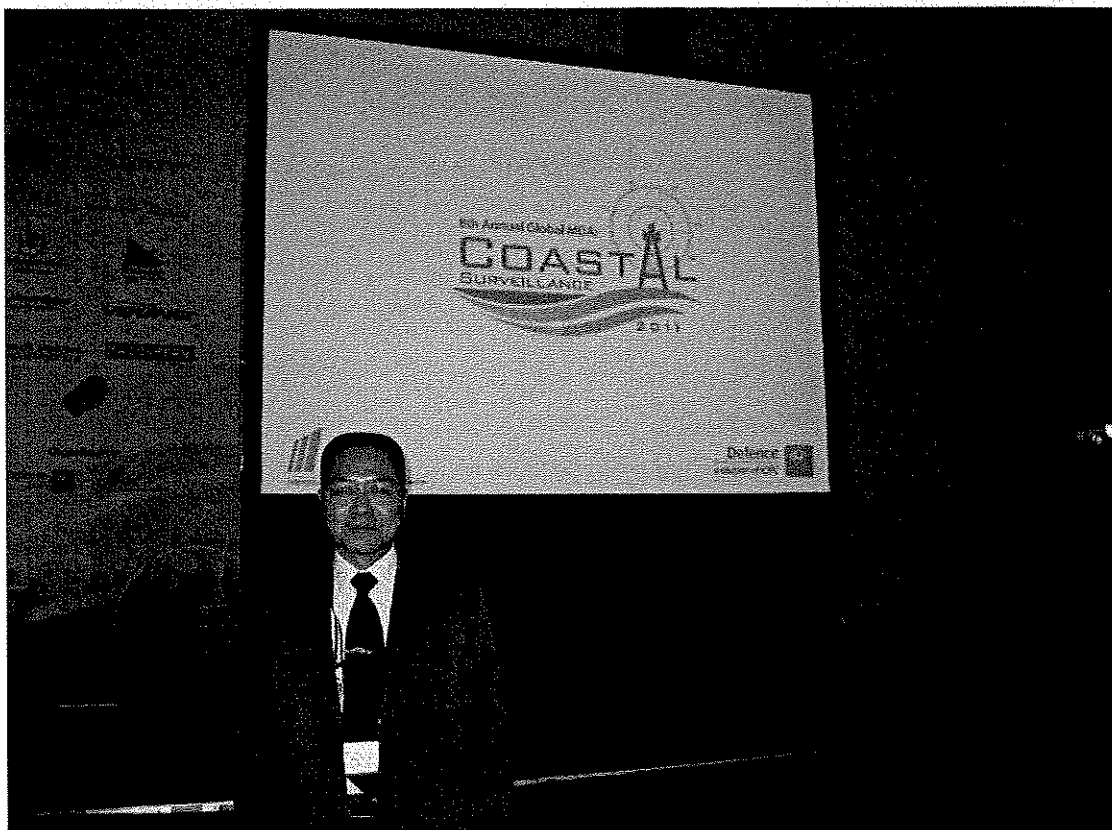
本署代表於會場留影

行政院及所屬各機關出國報告提要

出國報告名稱：行政院海岸巡防署出席 2011 年全球岸際監偵國際會議出國報告

頁數＿＿＿　含附件：■是□否

出國計畫主辦機關/聯絡人/電話
行政院海岸巡防署情報處/科員張德龍/02-22399201 轉 266324

出國人員姓名/服務機關/單位/職稱/電話
耿英傑/行政院海岸巡防署/情報處/科長/02-22399201 轉 266351
蘇泉諽/行政院海岸巡防署海洋巡防總局/偵防查緝隊/組主任/02-22399201 轉 362979

出國類別：□1 考察□2 進修□3 研究□4 實習■5 其他

出國期間：100 年 11 月 28 日至 30 日	出國地區：新加坡
報告日期：100 年 12 月 22 日	

分類號/目
關鍵詞：全球岸際監偵國際會議、海域執法。
內容摘要：

　　新加坡「國際品質創新中心」鑒於海盜事件頻傳，亟待各國參與研討海事安全對策，故規劃於 100 年 11 月 28 至 30 日假該國舉行「2011 年全球岸際監偵國際會議」，並邀請本署及相關國家人員擔任會議報告人，就海事監偵議題進行報告與討論。

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海岸巡防機關公務出國報告審核表

出國報告名稱：行政院海岸巡防署出席 2011 年全球岸際監偵國際會議出國報告		
出國人姓名（2 人以上，以 1 人為代表）	職稱	服務單位
耿英傑	科長	行政院海岸巡防署

出國類別	□考察　□進修　□研究　□實習 ■其他　 國際會議 　（例如國際會議、國際比賽、業務接洽等）	
出國期間：100 年 11 月 28 日至 100 年 11 月 30 日		報告繳交日期：100 年 12 月 22 日

計畫主辦機關審核意見	■1. 依限繳交出國報告 ■2. 格式完整（本文必須具備「目的」、「過程」、「心得及建議事項」） ■3. 內容充實完備 ■4. 建議具參考價值 ■5. 送本機關參考或研辦 □6. 送上級機關參考 □7. 退回補正，原因：□ 不符原核定出國計畫　□ 以外文撰寫或僅以所蒐集外文資料為內容　□ 內容空洞簡略或未涵蓋規定要項　□ 抄襲相關出國報告之全部或部分內容　□ 電子檔案未依格式辦理　□ 未於資訊網登錄提要資料及傳送出國報告電子檔 ■8. 本報告除上傳至出國報告資訊網外，將採行之公開發表： 　■ 辦理本機關出國報告座談會（說明會），與同仁進行知識分享。 　□ 於本機關業務會報提出報告 　□ 其他＿＿＿＿＿＿＿＿＿＿＿＿ □9. 其他處理意見及方式：	
審核人	一級單位主管	機關首長或其授權人員
	情報處處長 王肇成	署長 王進旺

說明：

一、各機關可依需要自行增列審核項目內容，出國報告審核完畢本表請自行保存。

二、審核作業應儘速完成，以不影響出國人員上傳出國報告至「政府出版資料回應網公務出國報告專區」為原則。

海岸巡防機關公務出國報告建議事項採行情形追蹤表

出 國 報 告 名 稱	行政院海岸巡防署出席 2011 年全球岸際監偵國際會議出國報告
出 國 計 畫 名 稱	100 年本署赴新加坡出席「2011 全球岸際監偵國際會議」發表「跨機關船資鏈結整合強化海域執法能量」專題
主 辦 機 關 （ 單 位 ）	行政院海岸巡防署情報處

	建 議 事 項 （每項五十字以內）	辦 理 機 關 （單位）	採 行 情 形	未 採 行 原 因
1	持續運用機會參與國際相關會議，達到汲取國際犯罪調查新知及開展對外交流合作之目標。	本署情報處	已採行	
2	賡續強化跨機關資訊交換平台，擴大監控範圍，適時掌握海上各種突發或異常狀況，以提升本署執法能量。	本署情報處	已採行	

8th Annual Global MDA:
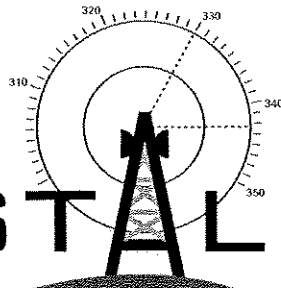
COASTAL SURVEILLANCE
2011

Main Conference:
29 & 30 November 2011

Post Conference Workshop and Site Tour:
1 December 2011

Venue: **Orchard Hotel Singapore**

RETURNING FOR THE 8TH YEAR: THE ONLY CONFERENCE & EXHIBITION IN ASIA DEDICATED TO MARITIME INTELLIGENCE!

NEW VENUE

Best Practices to Achieve a Comprehensive MDA

NEW FOR 2011

- 70% NEW Speaker Faculty and Agencies
- Site tour to Singapore Police Coastal Command HQ: NEW Feature
- Representation from Republic of Korea and Taiwan: For the FIRST time at **Coastal Surveillance**
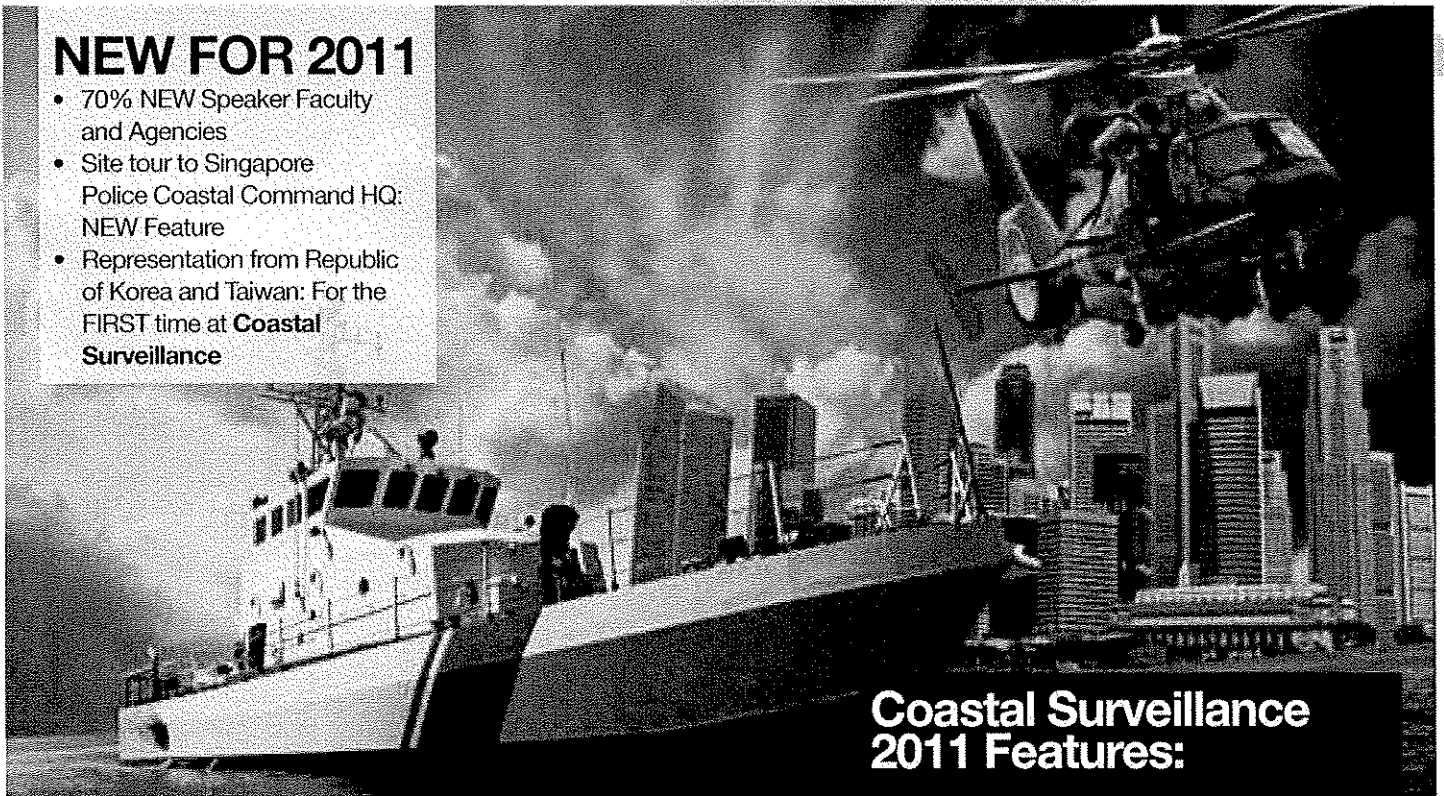
Coastal Surveillance 2011 Features:

↗ A unique speaker line up, with keynote presentations from US Navy, Indian Coast Guard, Maritime Security Task Force, Singapore and others: Learn from the maritime experts!

↗ Keynote sessions from IG VSR Murthy, FADM Albert Mamahit and FADM Zulkifli Bin Abu Bakr, among others: Be part of the only Asia focussed forum featuring a speaker faculty of this calibre.

↗ Showcase of cutting edge technology in the ISR domain: Find out the military and industry technology sessions on sensors, radars, extension of existing platforms' lifecycle and the interface between technology and people procedures.

↗ Discussing best practices and inter-agency experiences: Learn how to leverage on shared technology, resources and intelligence.

Key Military Figures Shape the 2011 Coastal Surveillance Conference

In its 8th year, the conference addresses the key dynamics in the Asian maritime sector with the speaker faculty including:

Rear Admiral Krouch Kim Tonn
Deputy Chief of Staff
CAMBODIAN NAVY

Rear Admiral Sam J Perera
Director General - Operations
SRI LANKAN NAVY

First Admiral (Maritime) Zulkifli Bin Abu Bakr
Head of Enforcement of Southern Region
MALAYSIAN MARITIME ENFORCEMENT AGENCY

First Admiral Albert Mamahit
Commandant, Sea Combat Group of Western Fleet
INDONESIAN NAVY

Dear Colleague,

In spite of several technical and training initiatives, Asia's 39,000 miles of coastline still remain vulnerable to internal and external security threats. Questions over South China Sea and increased piracy attacks continue to affect investment and capability development decisions.

It's the time of the year again for Asia's premier maritime community to gather in Singapore to talk about the issues that keep them awake at night. For the past seven years, the **Coastal Surveillance** conference and exhibition series has challenged the Asian maritime community to implement innovative cooperation initiatives, instigate crucial investment decisions and develop the platform for an exchange of ideas and convert them to action.

The 8th annual **Coastal Surveillance** is no different in that respect. Whilst this year, we continue to grow the brand into the undisputed annual must-attend conference, it's also different in the following ways:

1. **NEW agency updates:** Look through the agenda inside to see the sessions from Taiwan Coast Guard and Republic of Korean Navy
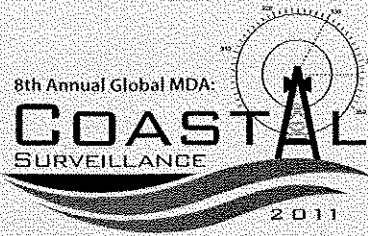
2. **NEW technology focussed sessions:** If you want to hear about cutting edge ISR, sensor and radar capability... look at our technology intensive sessions

3. **NEW site tour in 2011:** Familiar with the ICCT and BST training facilities in Singapore? For the first time, **Coastal Surveillance** has incorporated a site tour to Singapore Police Coast Guard's facilities. For more information, turn to page two.

Coastal Surveillance 2011 is the final opportunity to lock in your naval calendar to be part of this established international maritime community.

If you are responsible for tasks concerned with maritime affairs, coastal command, border protection, coastal surveillance, anti piracy, homeland security and disaster relief, add **www.coastalsurveillancemda.com** to your favourites and get in touch with us today.

I look forward to seeing you in Singapore this November.

Thanks and regards,

Sherene Asnasyous
Conference Director - Coastal Surveillance
Defence IQ - Singapore

P.S. Don't forget to check out our Knowledge Center for presentations, speaker interview and white papers. This can be accessed at www.coastalsurveillancemda.com

Featured News

At the 2010 **Coastal Surveillance** conference, Commodore RS Vasan IN, from the Centre for Asia Studies explained in detail how the terror attacks that rocked Mumbai could have been prevented had there been tightened coastal surveillance around India's shores.

The Mumbai terror attacks on the 26th of November 2008 claimed 168 lives and targeted hotels, railways station and even a Jewish institution. A post mortem of the terror attacks revealed that reports about the terrorists landing on India's shores were made by local fishermen but were not acted up on in time, a development that could have prevented the deadly attacks. Since then, there have been many lessons learnt and Commodore Vasan believes that India is now much more capable of dealing with such attacks.

"There was coordinated effort and synergy amongst the agencies tasked with security. If the force levels envisaged were met by timely induction of platforms. Sharing of intelligence and acting on even hints threatens our citizens and property. Surveillance efforts should have been better coordinated and the use of technology should be used for beating the designs of the terrorists who have equal access to technology," he said.

Commodore Vasan probably sums up India's dealing with terror attacks best. "Terrorists are thinking creatively about new tactics. So must we. And while we have to learn from Mumbai and prepare to defend ourselves against a similar attack, we cannot focus too narrowly on any one preventive method," explained the Commodore.

Sadly, India does not seem to have learnt the hard lesson as yet another series of blasts resulted in casualties in Mumbai on 13 July. With a ongoing count of over 150 casualties, Mumbai and India at large still have a long way to go to address the technical and human aspects of a robust counter terrorism policy.

To know about how the Indian Coast Guard has responded to these security vulnerabilities, don't miss out on Inspector General VSR Murthy's plenary on Day Two of **Coastal Surveillance**. For further details on IG Murthy's session and his operational background, refer to page five.

Asia Pacific Naval Briefs include:

- Looking at the Legal Framework and Interdiction of Illegal Trafficking of People and Commodities
  BORDER PROTECTION COMMAND, AUSTRALIA

- Discussing Current Maritime Threats and Challenges in Asia Pacific
  MARITIME SECURITY TASK FORCE, SINGAPORE

- Implementing Sensor Networks for Coast Guard Protection: Looking at Current Requirements
  MALAYSIAN MARITIME ENFORCEMENT AGENCY

- Combating Illegal Trafficking Operations: How Serious is the Threat?
  REPUBLIC OF KOREA NAVY

LIST OF ASIA PACIFIC SPEAKERS AND VIP MILITARY GUESTS AT COASTAL SURVEILLANCE THIS YEAR INCLUDES:

Vice Admiral Jean Louis Vichot
Director
NAVAL CENTRE, FRENCH NAVY

Rear Admiral Krouch Kim Tonn,
Deputy Chief of Staff
CAMBODIAN NAVY

Rear Admiral Sam J Perera
Director General - Operations
SRI LANKAN NAVY

Rear Admiral Tea Sohka
Commander, NCMS Tactical Command HQ
CAMBODIAN NAVY

Rear Admiral (Sel) Robert V. Hoppa
Director
NATIONAL MARITIME INTELLIGENCE CENTER, UNITED STATES NAVY

First Admiral (Maritime) Zulkifli Bin Abu Bakr
Head of Enforcement of Southern Region
MALAYSIAN MARITIME ENFORCEMENT AGENCY

First Admiral Albert Mamahit
Commandant, Sea Combat Group
of Western Fleet
INDONESIAN NAVY

Captain Muzaffar Mahmood
Deputy Chief (Maritime Affairs Wing)
PAKISTAN NAVY

Captain Jose Bausua
Chief, Integration Office
NATO

Captain Yang Sub Na
Commander - Naval Sea Systems
REPUBLIC OF KOREA NAVY

Captain Ferdinand Velaso
Chief
PHILIPPINE COAST GUARD

Captain Harjo Susmoro
Senior Officer, Strategy and Operations
INDONESIAN NAVY

Captain Suyono Thamrin
Senior Officer, Personnel
INDONESIAN NAVY

Commodore Joseph Rustom O Pena*
Deputy Commander, Philippine Fleet
ARMED FORCES OF THE PHILIPPINES

Commodore Lino Dapi
Vice Commander, Administration
PHILIPPINES COAST GUARD

Commander Charlie Rances
Deputy Chief of Staff
PHILIPPINE COAST GUARD

Lieutenant Commander Jae Soo Lee
Head, Naval Ships Engineering Support Team
DEFENSE ACQUISITION PROGRAM ADMINISTRATION, REPUBLIC OF KOREA

Lieutenant Commander Daryl Robinson
ILO, C2 Center, Changi Naval Base
BORDER PROTECTION COMMAND, AUSTRALIA

Inspector General VSR Murthy
Deputy Director General, Operations and
Coastal Security
INDIAN COAST GUARD

Senior Representative
NCIS

Charles Siniu
Director General, Maritime Security Division
MINISTRY OF TRANSPORT, PAPUA NEW GUINEA

Dr. Won Tcheon Oh
Principal Researcher
AGENCY FOR DEFENSE DEVELOPMENT, SOUTH KOREA

Mark Tsu
Section Chief - Security
TAIWAN COAST GUARD

Dr Myong Won Yoon
Principal Researcher, Naval Systems
AGENCY FOR DEFENSE DEVELOPMENT, SOUTH KOREA

Senior Representative
MARITIME SECURITY TASK FORCE, SINGAPORE

Senior Maritime Liaison Officer
Maritime Liaison Unit - Pacific
US NAVY

1* Officer
ROYAL THAI NAVY

You may also be eligible for a VIP Guest Pass. For details, call +65 6722 9388

MEET YOUR SPEAKERS

First Admiral (Maritime) Zulkifli Bin Abu Bakr
Head of Enforcement of Northern Region
MALAYSIAN MARITIME ENFORCEMENT AGENCY
First Admiral Zulkifli Abu Bakr has held numerous appointments and has extensive experience within the Malaysian Maritime Enforcement Agency (MMEA). From his appointment as a Maritime Enforcement Officer he is currently the Head of Enforcement of the Northern Region at MMEA. He has also attended several courses viz. Foreign Affairs Course in Australia, Mine Warfare, Italy, International Signals, UK and Naval Command, USA.

Rear Admiral Krouch Kim Tonn
Deputy Chief of Staff
CAMBODIAN NAVY
With over thirty years of military experience, Rear Admiral Tonn holds the dual position of Deputy Chief of Staff, Cambodian Navy and the Deputy Secretary General of the newly formed National Committee for Maritime Security (NCMS). His previous appointments include Commander of Gunship Squadron, Deputy Commander of Ream Coastal Base and Chief of Operations, Naval HQ in Cambodia.

Captain Yang Sub Na
Commander - Naval Sea Systems
REPUBLIC OF KOREA NAVY
Captain Sub Na currently holds the position of Project Manager, Naval Ships Engineering Support Team at Defence Acquisition Program Administration (DAPA) department under the Ministry of Defence, Republic of Korea. A Doctorate from Chungnam National University, Korea, he has been working in DAPA for several years now in the capacity of Naval Sea Systems Commander.

Lieutenant Commander Jae Soo Lee
Head, Naval Ships Engineering Support Team
DEFENSE ACQUISITION PROGRAM ADMINISTRATION, REPUBLIC OF KOREA
Lieutenant Commander Jae Soo Lee currently heads the Outfitting, Electric and Electronic Part and Naval Ships Engineering Support Team in Defence Acquisition Program Administration (DAPA). A colleague of Captain Yang Sub Na, he has spent extensive time in Combatant Ship Integrated Project, Supervising Team at HHI Shipyard and Naval Ship Design Department.

Lieutenant Commander Darryl Robinson
ILO, C2 Centre, Changi Naval Base
BORDER PROTECTION COMMAND, AUSTRALIA
Lieutenant Commander Daryl Robinson joined the Royal Australian Navy in 1982. Following successful completion of Seahawk Operational Flight Training as a Sensor Operator in 1993, Lieutenant Commander Robinson was posted to HMAS SYDNEY flight as operational aircrew, and thence to HS 816 Squadron as the Assistant Operations Officer. In 1996 he transferred to the RAAF as a P3C Orion Navigator, progressing to 11 Squadron Training Officer. During this tenure, he further consolidated his RAN experience in maritime security, through operations within the Australian Economic Exclusion zone, South West Pacific and South East Asian regions. In 2005 he was posted as the Aircrew Training Continuum Coordinator responsible for the management of naval aircrew training, and project related tasks.

Mark Tsu
Section Chief - Security
TAIWAN COAST GUARD
Mark Tsu has extensive experience in criminal investigation and currently holds the position of Section Chief in the Taiwan Coast Guard. A graduate in criminal investigation, he was part of the International Criminal Affairs Division (INTEPOL, Taipei) and subsequently became a special agent for the Intelligence Department with the Taiwan Coast Guard.

Commander John Fox
Commander,
FIJI NAVY
Commander Fox has more than twenty years' experience within the Navy and is currently the Commander of the Navy. Previous appointments include being the maritime commander of 2IC Fiji Navy, RFNS LEVUKA RFNS KIRO and RFNS SAKU. Commander Fox will be sharing the future development roadmap for Fiji Navy on Day One at Coastal Surveillance.

DAY ONE

08.30 **REGISTRATION**

09.00 Opening Remarks by the Chair

09.10 **Discussing Current Maritime Threats and Challenges in Asia Pacific**
* Looking at current conventional and asymmetric threats in APAC: What are the vulnerabilities?
* Evaluating regional responses to emerging threats of the Asia Pacific
* Achieving inter agency collaboration: What are the challenges and progress factors?
* Overcoming rising threats of terrorism, piracy and smuggling: What is being done?

> 1ˢᵗ Officer
> **MARITIME SECURITY TASK FORCE SINGAPORE**

09.40 **Implementing Sensor Networks for Coast Guard Protection: Looking at Current Requirements**
* Upgrading the current sensors in place for enhanced ISR: How have the requirements changed?
* Increasing the coverage of the network in spite of weather and environmental challenges
* Looking at current upgrades and integration within airborne and shore based platforms
* Discussing the advantages of sensors fitted with low-light television camera and side-scanning, hull-mounted HF sonars

> **First Admiral (Maritime) Zulkifli Bin Abu Bakr**
> Head of Enforcement of Southern Region
> **MALAYSIAN MARITIME ENFORCEMENT AGENCY**

10.10 **Requirements for Coastal Surveillance: Perspective of a Small Navy**
* Looking at inter agency collaboration: Case study from the NCMS
* Closing the surveillance gaps: What is missing?
* Centralising information in one platform to control and regulate patrolling activities
* Future roadmap to improve CSS in Brunei; Discussing future capabilities

> **Rear Admiral Krouch Kim Tonn**
> Deputy Chief of Staff
> **CAMBODIAN NAVY**

10.40 **MORNING TEA**

11.10 **Maritime Domain Awareness: Discussing Fusion Developments**

> **Viv Hoyle**
> Managing Director
> BAYBRIDGE FAR EAST

11.40 **Combating Illegal Trafficking Operations: How Serious is the Threat?**
* Overview of the threat of trafficking in Asia's coastal waters
* Looking at the legal framework and interdiction of illegal trafficking of people and commodities
* Determining surveillance goals and what needs to be addressed
* Discussing successful surveillance operations: Case studies from the region

> **Captain Yang Sub Na**
> Commander - Naval Sea Systems
> **REPUBLIC OF KOREA NAVY**

12.10 Today's Customer Requirements Vs the Damen Designs
* Value for money
* Economic patrolling
* Designed for low intensity operations
* Covering the operational requirements
* A multi-functional platform

DAMEN

Piet van Rooij
Manager Design & Proposal
DAMEN

12.40 LUNCH

13.40 Examining the Emerging Threats of Regional Smuggling Operations
* Looking at the current hotspots for smuggling in Southeast Asia: What are the counter strategies in place?
* Update on the joint patrols and frameworks in place to combat smuggling of people and commodities
* Evaluating the new legal frameworks in place: How do they affect counter smuggling operations?
* Risk factors and red flags: What do customs and immigration officers need to look out for?

Captain Muzaffar Mahmood
Deputy Chief (Maritime Affairs Wing)
PAKISTAN NAVY

14.10 Looking at the Legal Framework and Interdiction of Illegal Trafficking of People and Commodities
* Nature of the Human Smuggling problem
* Indicative routes
* Vessel types
* Modus Operandi of the syndicates
* Information sharing to address the problem

Lieutenant Commander Darryl Robinson
ILO, C2 Centre, Changi Naval Base
BORDER PROTECTION COMMAND, AUSTRALIA

14.40 Cost Effective Coastal Surveillance
* New features of the MSS 6000 system
* Combining satellite and airborne surveillance
* Creating a comprehensive situation overview
* Coordination of assets in real time

Olov Fäst
General Manager, Airborne Systems
SWEDISH SPACE CORPORATION

14.55 Korea's Naval Modernisation Program: Enhancing the Country's Maritime Security
* Overview of the development and procurement plans for the Navy
* Replacing the class fast attack craft with new corvettes: What is the current status?
* Current capabilities for a Coastal Surveillance System: Discussing modernisation plans
* Understanding the progress of inter agency collaboration: How can this be strengthened?

Lieutenant Commander Jae Soo Lee
Head, Naval Ships Engineering Support Team
DEFENSE ACQUISITION PROGRAM ADMINISTRATION REPUBLIC OF KOREA

15.25 AFTERNOON TEA

15.55 Maritime Information System Integration for Anti-Maritime Crime
* Overview of the current technology in place for anti crime operations
* Going beyond the existing surveillance radars: What are the current modernisation plans?
* Discussing applications of the surface search equipment: What are the challenges in view of the emerging threats?
* Benefits of AIS technology: Has this been implemented by the Coast Guard?

Mark Tsu
Section Chief - Security
TAIWAN COAST GUARD

16.25 MEDUSA: An Integrated Platform-Independent Multi-Mission Airborne Maritime Surveillance System

optimare

Dr. Nils Robbe
CEO
OPTIMARE

16.40 Airborne Surveillance and Technology: Applications in Coastal Surveillance
* Looking at the conditions of night and day weather that affect image and data quality: How can this be overcome?
* Understanding the importance of SATCOMS to obtain high quality intelligence: Are they being integrated within the aerial platform?
* Obtaining and filtering down real time sensor data and feeding it back to the C2 stream: What are the challenges?
* Understanding which platform best suits the requirements for Asian naval forces

1ˢᵗ Officer
ROYAL THAI NAVY

17.10 PANEL DISCUSSION: Inter Agency Collaboration: Perspectives from Asia

First Admiral (Maritime) Zulkifli Bin Abu Bakr
Head of Enforcement of Southern Region
MALAYSIAN MARITIME ENFORCEMENT AGENCY

Charles Siniu
Director General, Maritime Security Division
MINISTRY OF TRANSPORT, PAPUA NEW GUINEA

Commander John Fox
Commander
FIJI NAVY

Senior Maritime Liaison Officer
Maritime Liaison Unit - Pacific
US NAVY

17.30 End of Day One

17.45 Cocktails and Canapés Reception

MEET YOUR SPEAKERS

Rear Admiral (Sel) Robert V.Hoppa
Director,
NATIONAL MARITIME INTELLIGENCE CENTER, UNITED STATES NAVY
Rear Admiral Cox brings a wealth of operational experience and expertise to this year's conference. Previous to NMIC, RADM Cox's assignments included head of the Multi-national Intelligence Task Force; director of Fleet Intelligence; director of Plans and Policy (N5) for Naval Network Warfare Command and Commander of the U.S. Central Command Joint Intelligence Center, among others. Cox has earned numerous awards, including a Bronze Star, a Director of National Intelligence Exceptional Achievement Medal, and the 2001 Navy League of the U.S., Naval Intelligence Foundation Award, for excellence in operational intelligence support to the Fleet.

Inspector General VSR Murthy
Deputy Director General, Operations and Coastal Security
INDIAN COAST GUARD
Inspector General VSR Murthy joined the Indian Coast Guard in 1984 and has held various important command and staff appointments, both afloat and ashore. His command of all four major ship classes of the Indian Coast Guard includes that of the Advanced Offshore Patrol Vessel Samar (Awarded Best Coast Guard Unit), Offshore Patrol Vessel Vijaya (Best Search & Rescue Ship), Fast Patrol Vessel Annie Besant and Inshore Patrol Vessel Kitur Chennamma (Best Taut Ship). The officer's important command appointments ashore include the Commander, Coast Guard District-5 (Tamil Nadu), Commander, Coast Guard Goa Area and Commanding Officer, ICGS Delhi. His key staff assignments include Principal Director (Policy & Plans) and Joint Director (Human Resource Development) at the Coast Guard Headquarters, New Delhi. Inspector General Murthy is a highly decorated officer. He is a recipient of Tatrakshak Medal (Gallantry) and the Lieutenant Governor (Andaman & Nicobar Islands) Commendation, and was twice awarded the Director General Indian Coast Guard Commendation.

First Admiral Albert Mamahit
Commandant, Sea Combat Group of Western Fleet,
INDONESIAN NAVY
First Admiral Mamahit joined the Indonesian Navy in 1980 and has held several posts and appointments within the Navy since then. These include Head of Navigation, Head of Operations and Commanding Officer at of Patrol Craft Class and Fast Attack Craft Class. Assistant of Operations for Commander of Western Fleet Command in 2006-2008 and Senior Staff Officer of Operations Department for Strategy Operations in Indonesian Naval Head Quarters in 2008-2011. Currently his position is a Commandant of Sea Security Task Force of Western Fleet. His decorations include Loyalty Service for 8 years, Loyalty Service for 16 years, Loyalty Service for 24 years, Dwidya Sistha for Naval Instructor Dedication, Santi Dharma Medal and UNPF Medal, Yudha Dharma Nararya Star, Jalasena Nararya Star.

Stefan Alfredsson
Head of Maritime Security Section
ICELANDIC MARITIME ADMINISTRATION
Stefan Alfredsson has extensive experience with police, search and rescue and security operations and brings the European perspective to the 8th annual Coastal Surveillance conference. He has worked in the Icelandic Police for 22 years as a police officer and later a detective inspector, within different divisions including riot control, radio communication, on scene coordination, search and rescue, accident investigation, criminal investigation (violence, financial and fraud), hostage/crisis negotiation and restorative justice. He has worked as an instructor in the Icelandic Police School for a few years and currently heads the Maritime Security Section at the Icelandic Maritime Administration, which he joined in 2008.

Commander Charlie Rances
Deputy Chief of Staff,
PHILIPPINE COAST GUARD
Commander Rances joined the Philippines Coast Guard (PCG) in 1989 and sine then, has held several important appointment and positions within the PCG. The recipient of numerous Coast Guard Merit Medals from the PCG, he has served in various committees including disaster relief, search and rescue, port security and warship survivability. His merit medals and commendations also include Luzon Campaign Medal, Visayas Campaign Medal, Mindanao Sulu Campaign Medal and the PCHG Command Plaque.
Don't miss Commander Rances' presentation on Day Two.

Confirmed, yet Subject to Final Availability

DAY TWO

09.00   Opening Remarks by the Chair

09.10   **Closing the Surveillance Gap: Combating Piracy Threats**
* Assessing the extent of the piracy threat in Asia: Which are the choke points?
* Understanding how surveillance techniques, especially sensor and AIS systems can help to protect commercial assets
* Securing ships and vessels, both on the high seas and docked at ports and harbours
* Involving all the stakeholders: Improving collaboration between national, international and private agencies

> **Rear Admiral (Sel) Robert V. Hoppa**
> Director
> **NATIONAL MARITIME INTELLIGENCE CENTER, UNITED STATES NAVY**

09.40   **Advancements in Indian Coast Guard technology: Securing the Coastline after the Mumbai Terrorist Attacks**
* Assessing the progress of the new coastal radars and OPVS: Discussing their implementation in coastal surveillance
* Using the newly acquired fast patrol boats for maritime surveillance: Have there been any operational challenges?
* Looking at the use of medium sized hovercrafts for surveillance over the marshy lands of coastal India: Have these been useful?
* Coordinating state agencies to introduce AIS systems for surveillance operations

> **Inspector General VSR Murthy**
> Deputy Director General,
> Operations and Coastal Security
> **INDIAN COAST GUARD**

10.10   **Discussing Multi Role Maritime Patrol and Reconnaissance Aircraft**
* The Multi Mission Saab 2000 MPA
* Operational Capabilities - High Speed - long range, long endurance
* Sensor Suite & ISR - Complete Domain Awareness
* Partnership for perfection, teamed AEW & MPA surveillance
* Offering multiple solutions for specific customer needs

> **SAAB**
> Matthew Smith
> Director of Marketing, Airborne Surveillance
> **SAAB**

10.40   **MORNING TEA**

11.10   **Advancements in Sensor and Radar Technology: Implementing them for Maritime Surveillance**
* Discussing the challenges of weather and environment in patrol and surveillance missions
* Looking at the applications of miniature radars for coastal surveillance
* Using coastal and ship board radars for patrol in the Malacca Straits: How effective have they been?
* Challenges in feeding back radar and sensor into the C2 network: How can these be overcome?

> **Rear Admiral Sam J Perera**
> Director General - Operations
> **SRI LANKAN NAVY**

11.40   **Coastal Surveillance: Chain of Command**
* Discussing the benefits of virtually "positioning" headquarters into maritime patrol aircraft

- Looking at the applications of miniature radars for coastal surveillance
- Using coastal and ship board radars for patrol in the Malacca Straits: How effective have they been?
- Challenges in feeding back radar and sensor into the C2 network: How can these be overcome?

SCOTTY
Manfred Schelring
Director - Government Sales
SCOTTY

12.10 Adapting Latest Radar Surveillance Technology for Coastal Surveillance
- Airborne surveillance platforms: Discussing different payloads' technologies
- Ship borne platforms: What are the surveillance options available?
- Effective upgrades of surveillance technology: What are the challenges?
- Integrating sensor payloads within the platform: Discussing the best options

First Admiral Albert Mamahit
Commandant, Sea Combat Group of Western Fleet
INDONESIAN NAVY

12.40 LUNCH

13.40 The Rise of Corvettes: Drawbacks and Advantages
- Discussing the use of corvettes in the Asia Pacific naval scenario: Are they more effective than fast attack craft?
- Moving beyond the escort role to being a mini warship:
- Equipping corvettes from surface ships and aircraft threats
- Understanding the need of a long range radar for search and rescue operations
- Analysing the vulnerabilities: How susceptible are corvettes to underwater weapons

Vice Admiral Jean Louis Vichot
Director
NAVAL CENTRE, FRENCH NAVY

14.10 Discussing Future National Patrol and Surveillance Requirements
- Analysing current strategies for onshore and offshore patrol operations
- Discussing current capabilities of the patrol ships and potential planned upgrades for Philippines
- Upgrading modular payloads for specialist operations: What are the considerations?
- Case studies of lessons learned from Asia and beyond

Commodore Joseph Rustom O Pena
Deputy Commander, Philippine Fleet
PHILIPPINES NAVY

14.40 Achieving Full Situational Awareness: Challenges and Benefits
- Using AIS systems for early detection: Has this worked?
- Moving towards an integrated C4i scenario: What are the challenges?
- Using real-time intelligence for surveillance and detection:
- Applications of imaging and video technology
- Looking at operational C4i systems: Case studies

Senior Representative
NCIS

15.10 Current Efforts towards a Inter Agency Information Exchange: Learning from Best Practices
- Discussing the current regional institutions in place for maritime security: Are they robust?
- Highlighting the challenges of real time intelligence exchange
- Standardising data formats and collection process: Looking at the different technologies being applied
- Best practices for information exchange: Learning the experience of NATO at the Gulf of Aden

Captain Jose Bausua
Chief, Integration Office
NATO

15.50 AFTERNOON TEA

16.10 Emerging Threats: Using Surveillance Systems to Reduce the Threat of Marine Pollution
- Understanding the current threats of marine pollution, including fisheries and oil spills in Asia
- Looking at coastal surveillance technology and monitoring
- methods to better manage increased traffic of oil tankers on ship routes
- Best practice technologies in oil spill detection systems for faster response: Lessons learnt from the BP spill
- Oil spill cleaning system updates and how these have been applied in the past: What can be learnt?

Commander Charlie Rances
Deputy Chief of Staff
PHILIPPINE COAST GUARD

16.40 Development of Harbor Underwater Surveillance Technology for ROK Navy
- Overview of the littoral threats in South Korea: What are the counter strategies available?
- Discussing the challenges of underwater divers to commercial piers, ports, harbours and other commercial assets
- Looking at underwater detection technology, especially sonar and unmanned systems' capabilities
- Tackling the threats of amphibious warfare and ensuring littoral security: Discussing success factors

Dr. Won Tcheon Oh
Principal Researcher
AGENCY FOR DEFENSE DEVELOPMENT SOUTH KOREA

17.10 The European Perspective: Looking at MDA Efforts
- Understanding the current threats of marine pollution, including fisheries and oil spills in Asia
- Looking at coastal surveillance technology and monitoring methods to better manage increased traffic of oil tankers on ship routes
- Best practice technologies in oil spill detection systems for faster response: Lessons learnt from the BP spill
- Oil spill cleaning system updates and how these have been applied in the past: What can be learnt?

Stefan Alfredsson
Head of Maritime Security Section
ICELANDIC MARITIME ADMINISTRATION

17.40 PANEL DISCUSSION: Key Technologies for Coastal Surveillance

18.10 End of Day Two

POST CONFERENCE WORKSHOP
AND SITE TOUR

Post Conference Workshop

NCIS

Thursday, 1 December (09.30 - 12.30)

Best Practices for Maritime Surveillance and Coastal Protection: Overcoming Current Challenges and Roadmap for the Future

Naval officers in charge of different aspects of ensuring maritime security often face time and coordination challenges amongst various teams tasked for specific duties. Not just technical aspects, but issues of training, optimum patrol activity coordination, littoral security and of course, surveillance and intelligence collection. The workshop will try to cover the different aspects of coastal surveillance, including:

- Developing a roadmap for an integrated MDA project stresses and strains: Discussing the new challenges in the maritime space, including environmental spills and threats to fisheries

- Challenges to operational efficiency: Discussing current inter agency collaboration efforts in place

- Technical upgrades: Debating between payload upgrade vs platform upgrade

- Understanding how to fit local requirements with global COTS products

Facilitator:
Nominated Representative
NAVAL CRIMINAL INVESTIGATIVE SERVICE, SINGAPORE

The Naval Criminal Investigative Service (NCIS) functions to investigate criminal, terrorist, and foreign intelligence threats. With offices all around the world, NCIS Singapore works closely with the Singapore Navy and Coast Guard along with other naval forces in the region, providing mission and intelligence support. The nominated officer from NCIS, Singapore will provide a best practice scenario with operational case studies on the issues touched above.

Site Tour

Thursday, 1 December (14.00 - 17.00)

NEW FOR 2011

Singapore Police Coast Guard HQ, Brani Naval Base, Singapore

In this unique site tour, attendees will be taken to the Singapore PCG HQ where they will be briefed and shown the state of the art facilities at the ICCT (Integrated Tactical Training Centre) and BST (Boarding and Search Trainer).

Learn from 'hands on' experience at ICCT's coastal surveillance simulation system with a 270 degree real time view of Singapore's coast line. Equally impressive is the built in mock up ship and deep pool where the PCG conducts its Board and Search training and water confidence for its cadets.

Complete with a live firing deck, the BST tour will offer you with practical insight into one of the best practice training facilities and processes in the region.

Finish the tour with a networking reception hosted by the PCG at their facilities and utilise this opportunity to expand your peer network in the maritime domain.

For more information, call us at **+65 6722 9388** or email us at **enquiry@iqpc.com.sg**. Places are limited to 30 for Government and Military and 15 for Industry representatives.
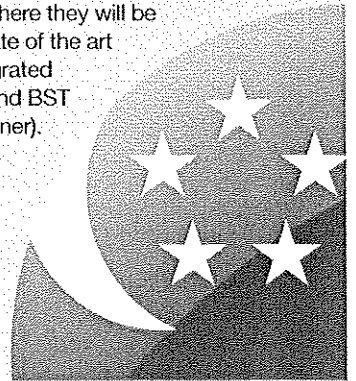
Coastal Cocktail Reception
Join in the Fun - The Great Food Trail!

Defence IQ will be hosting a cocktail reception with a difference. As a city famous for its variety of food, your journey will travel across Europe and continue to Asia to experience the different cultures of food, fun and entertainment during the two day event. During the evening cocktail reception you will be transported around Singapore to experience old and new sites and a traditional 'hawker' dinner for Singapore's famous local cuisine. More details will follow but do make sure you attend the full two days

conference and enjoy the surprises and extra networking opportunity with all participants.

Past attendees have enjoyed every cocktail evening of fun the Defence IQ team has put on; you do not want to miss out on this year's activities.

To RSVP, call +65 6722 9388.

For the opportunity to host the reception, please email sponsorship@enquiry@iqpc.com.sg

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www.coastalsurveillancemda.com

BAYBRIDGE

Baybridge Services (Far East) Limited, an ISO 9001 certified company based in Hong Kong and being part of global group of Telemar companies founded in 1948. We provide one-stop shop for design, supply, installation, commissioning and maintenance of full range of maritime and land based navigation and communication systems. In recent years, we are active in the field of Coastal Surveillance business in Asia area with projects in Philippines, Indonesia, Malaysia, Turkmenistan, PRC and more.

RFS Radio Frequency Systems is a global designer and manufacturer of cable and antenna systems, providing RF Systems solutions for cell-based mobile communications, in-building, in-tunnels, television and radio, radio-link networks, HF and defence. From short, medium and long-distance HF and broadband coverage to ionospheric propagation and shore-ship/ship-shore/ground-air communications, the RFS product range includes tactical manpack, transportable and stationary antennas for all omnidirectional and directional applications and field conditions.

HAWKER PACIFIC

Hawker Beechcraft is a world-leading manufacturer of business, special mission and trainer aircraft. Hawker Pacific, master dealer for Hawker Beechcraft aircraft, is the region's market leader in aircraft sales, charter and product support. Together, Hawker Beechcraft and Hawker Pacific offers tailored aircraft solutions with the capacity to deliver complex special mission modifications for both civil and military customers.

KELVIN HUGHES

Kelvin Hughes is a world leader in the design and supply of marine navigation and surveillance systems. Products include radar sensors and display technology, VDR, ECDIS and integrated bridge systems. It designed and produced the world's first commercial solid-state marine radar, SharpEye™, bringing a high level of performance and reliability to the Coastal Surveillance and VTS marketplace. Available as an X, S or dual band sensor, SharpEye™ is the perfect solution for remote deployment in this demanding environment.

SSC The SSC MSS 6000 Airborne Maritime Surveillance System is used for real-time monitoring of sea surface activities. Typical missions include surveillance for the protection of the Exclusive Economic Zone, oil spill tracking, border control, fishery surveillance, ship traffic control and search and rescue. The MSS 6000 comprises a field proven suite of sensors integrated with dedicated mission management software. All data is integrated in the operator interface and can be sent via satellite link in real time to command centres or other units. The systems is in operation on different types of aircraft such as the Dornier 228(Finland), LET 410(Estonia), Bombardier 415(Malaysia) and Dash 8(Canada).

SAAB

Saab is one of the world's leading high-technology companies, with its main operations in defence, aviation, space and civil security. Saab covers a broad spectrum of competencies and capabilities in systems integration. Saab develops, manufactures and delivers advanced products and services for the defence market, as well as for commercial markets where its expertise creates business opportunities. Thanks to its strengths and strategic partnerships, Saab has the world as its market, but research, development and production are carried out principally in Sweden.

DAMEN

The Damen Shipyards Group has developed from a single shipyard in 1927 and has grown to over 30 shipyards and related companies. In 1969, the concept of construction of commercial craft to standard designs, based on modular building principles, was introduced. From its base in the Netherlands, the Damen Shipyards Group is active in the design and construction of ships and in ship repair. In addition, it provides a broad range of associated maritime services. A wide range of standard vessels is available such as tugs, workboats and high-speed craft, including patrol and pilot boats and fast ferries. Damen is also active in the construction of specialized large workboats, offshore patrol vessels and navy ships.

SCOTTY™

SCOTTY offers an extensive and versatile portfolio of communication equipment and packages exclusively designed for the specific requirements of government, be it the military, police, coast guard, or civil protection. SCOTTY enables video communication and data transfer including Internet access and email from the field, from moving vehicles, aircrafts and ships. The communication equipment is ruggedised, portable, interoperable with NATO standard encryption and connects to the most important networks such as IP, ISDN, VSAT, Inmarsat, etc.

OPTImare

OPTIMARE is primarily specialising in mission system and sensor technology for airborne maritime surveillance and related special missions. Marine observing systems (in-water systems), autonomous observing systems, and in-situ analytics are additional business segments. OPTIMARE offers its fully integrated MEDUSA Airborne Maritime Surveillance System which features enhanced surface mapping, fusion-based sensor integration (SLAR, Search Radar, EO/IR, IR/UV, VIS, LFS, MWR, Direction Finder, AIS and others) and effective mission management capabilities. Moreover, OPTIMARE offers its own range of sensors for airborne oil spill detection as well as other mission relevant components.

RUAG
Aerospace Defence Technology

The RUAG technology group is an international Aerospace and Defence company. RUAG has six divisions: Space, Aviation and Technology in the Aerospace market segment, and Electronics, Land Systems and Ammotec in the Defence market segment. The Group's holding company is located in Berne (Switzerland). RUAG's production centres are situated in Switzerland, Germany, Austria, Sweden, Hungary and the US and employ around 7000 staff. Due to high demand RUAG has now revived its production of Dornier 228 combining proven and state-of-the-art technology, such as a glass cockpit, 5-blade propeller and digital avionics. The Dornier 228-212 New Generation is a flexible, reliable and cost-effective airplane applicable to a wide range of special mission and commuter operations.

CHL

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ABOUT COASTAL SURVEILLANCE AND HOW YOU CAN GET INVOLVED

Coastal Surveillance is Defence IQ Asia's oldest and most established defence events. Consistently attracting the senior most echelon of Naval/ Coast Guard/ Marine Police officers, the conference continues to meet the needs of Asia's maritime security community year after year. Keeping pace alongside changing industry trends since the launch of the conference, Coastal Surveillance has maintained its Asia wide and international brand as the platform to be at year after year. This is reflected in what you have told us over the past four years:

> "I think this meeting is very relevant, considered very contemporary...Your ability to get renowned speakers is also a plus sign. It is very relevant considering the challenges the mariners face, the threats and challenges."
> Rear Admiral Datuk Abdul Aziz Bin AJaafar, Assistant Chief of Staff, Operations & Training, Malaysian Armed Forces
> *(Coastal Surveillance, 2007)*

> "I think it's a very timely discussion - and of course some countries are already formulating things like maritime security and having bilateral and trilateral activites to coordinate, so its yet another good forum."
> Major General Dato Paduka Yussof, Commander, Royal Brunei Armed Forces
> *(Coastal Surveillance, 2008)*

> "This event is an effective and efficient platform for the various international agencies and vendors to share information, and to understand each other's perspectives."
> Staff Sergeant Justin Kwan, Operations Development Officer, Singapore Police Coast Guard
> *(Coastal Surveillance, 2009)*

> "Provides a real life scenario on what is happening in the real world... brings end users and vendors on a common platform to discuss needs and what's on offer."
> Ahmad Madzlan Zahari, Executive Director, ME&O Fleet Support, Malaysia
> *(Coastal Surveillance, 2009)*

> "The frequent, well organised, well supported networking breaks and reception offered a superb opportunity to discuss issues and needs with speakers and industry representatives."
> Douglas Clapp, Senior Analyst, Lockheed Martin
> *(Coastal Surveillance, 2010)*

> "Have heard great reviews of the conference and look forward to the Republic of Korea's participation in this forum for the first time."
> Captain Yang Sub Na, Commander - Naval Sea Systems, Republic of Korea Navy
> *(Coastal Surveillance, 2011)*

Get Involved in Coastal Surveillance 2011:

Thought Leadership: With an expected audience of 200+ senior government, military and industry attendees from Asia, **Coastal Surveillance** will enable you to build your reputation as a market leader in your chosen domain through speaking sessions and subject specific technology spotlights.

Branding: We bring together buyers and suppliers in a tailored location with unbeatable facilities for onsite branding and exposure. Additionally, our dedicated marketing team can help you achieve your promotional aims in the months leading up to the conference through extensive email campaigns and tailored web coverage.

Featured Networking: Focussed and high level, **Coastal Surveillance** will provide the perfect environment to initiate new business relationships and achieve face to face contacts that bigger exhibitions and trade shows cannot deliver. Sponsorship opportunities range from exhibition stands to sponsored lunches, cocktail receptions, gala dinners and a host of informal social networking events.

If you want to profile your product or service at **Coastal Surveillance 2011**, please call **+65 6722 9388** or email **sponsorship@iqpc.com.sg**

8th Annual Global MDA:

COASTAL
SURVEILLANCE
2011

Coastal Surveillance 2011 Offers you:

- 20+ expert speakers from the region and beyond to speak on best practice MDA applications in the defence and security sector. **Hear the procurement and investment plans for India, Singapore, Malaysia, Indonesia, Thailand, Philippines, Australia... among others**
- Focussed technical presentations on ISR capabilities: **Source for partners and distributors in the region to achieve greater market penetration in Asia's largest emerging markets**
- Themed networking receptions and social events at the end of Day One and Day Two, 29 and 30 November: **Utilise the opportunity to meet the Directors / Heads / Chiefs / Commanding Officers of the Navy / Coast Guard and National Security**

Featuring our Knowledge Center!

Interested in the issues, topics and subjects related to coastal surveillance? Visit our knowledge centre today to access speaker presentations, defence white papers, past presentations, podcasts and a whole lot more. This is your one stop shop for maritime security news and information.

Drop us an email at **enquiry@iqpc.com.sg** and we will send you selected resources including:

Coastal Security Challenges Post Mumbai Attacks
Commodore RS Vasan IN (Retd) from the Center for Asia Studies outlines the coastal security challenges post the November 26th Mumbai attacks. He also analyses why India was vulnerable to that style of coordinated assault and elaborates on what action has been taken since the November 2008 attacks to tighten India's port and coastal security.

Examining the Piracy Threat in the Malacca Straits and how Surveillance can Help Tackle the Threat to Commercial Assets
First Admiral Maritime Dato Che Hassan bin Jusoh, Director of Enforcement and Exercise for the Malaysian Maritime Enforcement Agency (MMEA) explains the importance of the Malacca Straits and the piracy counter measures in Malacca straits.

NATO Counter-Piracy Operations
Giuseppe Nobile, elaborates on the NATO and NATO HQ Situation Centre and the alliance maritime conceptual work and how useful GIS can be as a situational awareness tool in coastal surveillance and maritime security efforts, with a special focus on the Gulf of Aden.

The Changing Face of MDA
RADM Anders Grenstad, Chief of Naval Staff, Royal Swedish Navy, gives his thoughts on the changing face of MDA and the interdependence between landlocked states and coastal states, with an excellent overview of how the maritime security infrastructure has been implemented in Sweden.

About Defence IQ:

Defence *a division of IQPC* Defence IQ has established itself as the premier independent producer of conferences, seminars and exhibitions for the defence community. Defence IQ's portfolio covers all aspects of the defence sector, providing tailored conferences for senior military, government and industry representatives. Special attention is played to the discussion of future plans, emerging national requirements and developing technologies, the key issues that affect the sector. www.defenceiq.com

Become a member of Defence IQ and receive complimentary access to resources that will keep you at the forefront of industry change. You will receive access to our growing library of multi-media presentations from industry leaders, an email newsletter updating you on new content that has been added, free aggregated news feed from over 1000 global news sources tracking your industry and special member only discounts on events. Become a member here: **www.defenceiq.com/member**

Media Partners:

8th Annual Global MDA: COASTAL SURVEILLANCE 2011

Main Conference:
29 & 30 November 2011

Post Conference Workshop and Site Tour:
1 December 2011

My booking code is: 12019.005 PDFW

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ALL PRICES IN SGD	Book & Pay by 26 AUGUST 2011	Regular Price
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	Singapore 068893

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Hotel accommodation and travel costs are not included in the registration fee. A reduced corporate room rate has been arranged at **Orchard Hotel Singapore** for attendees at this conference. To take advantage of this special rate, please process the hotel room reservation form provided upon confirmation of your attendance.

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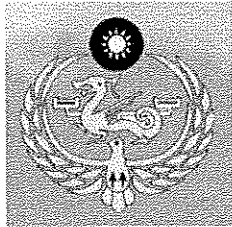(N.B. Advance orders will determine whether or not this conference will be recorded - Please enclose payment with your order.)

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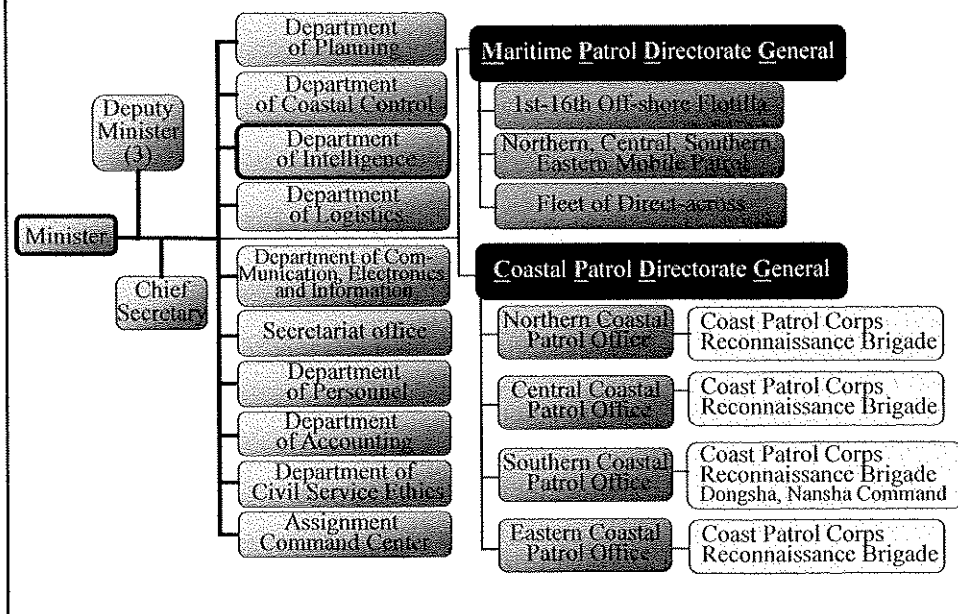
Maritime Information System Integration for Anti- Maritime Crime
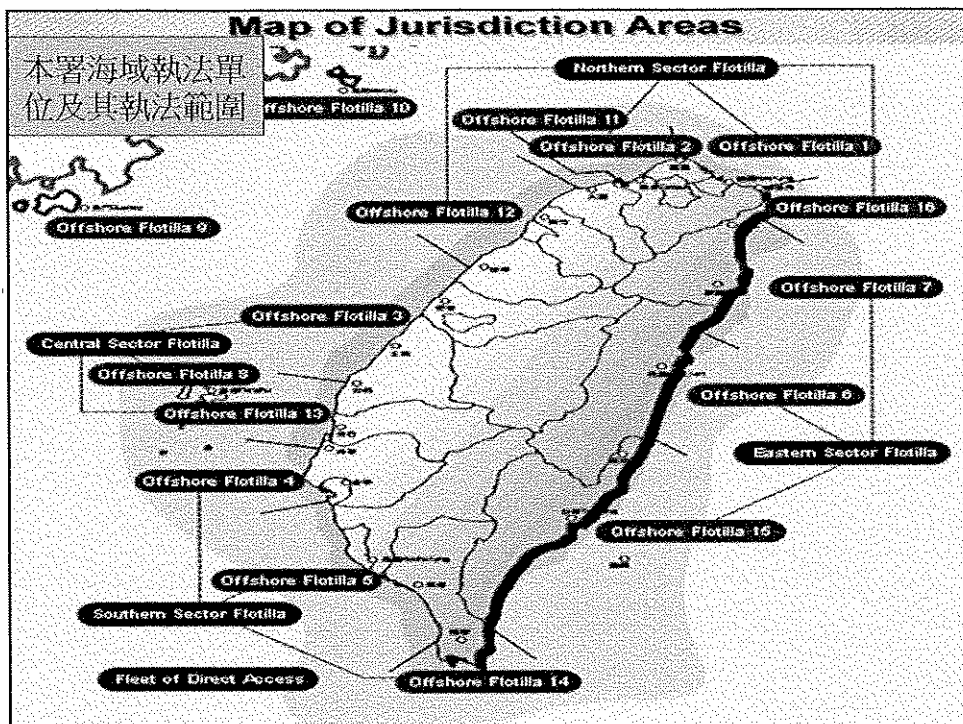## 跨機關船資鏈結整合
強化海域執法能量

Coast Guard Administration

R.O.C (Taiwan)

中華民國海巡署

Organization Chart 海巡署組織架構

TWCGA Core Missions
本署三大核心任務

- Maritime law enforcement
- 海域執法
- Maritime services
- 海事服務
- Maritime affairs
- 海洋事務

Issues議題

- How to strengthen the monitoring of sea waters and effectively take hold of the navigation path of ships/vessels in the proximity of Taiwan？
- 如何強化監控週遭海域活動及船舶動態？
- How to integrate the vessels Information in a multi-agencies way？
- 如何以跨機關整合的方式提升執行成效？

Solutions解決方案

- Coastal Radar System----TWCGA
- 本署雷達資訊系統
- "Vessel Monitoring System, VMS" ----Fishery Administration, Council of Agriculture
- 農委會漁業署「漁船船位監控系統」
- "Automatic Identification System, AIS" ----Ministry of Transportation and Communications
- 交通部「船舶自動辨識系統」

Coastal Radar System----TWCGA
本署雷達資訊系統介紹
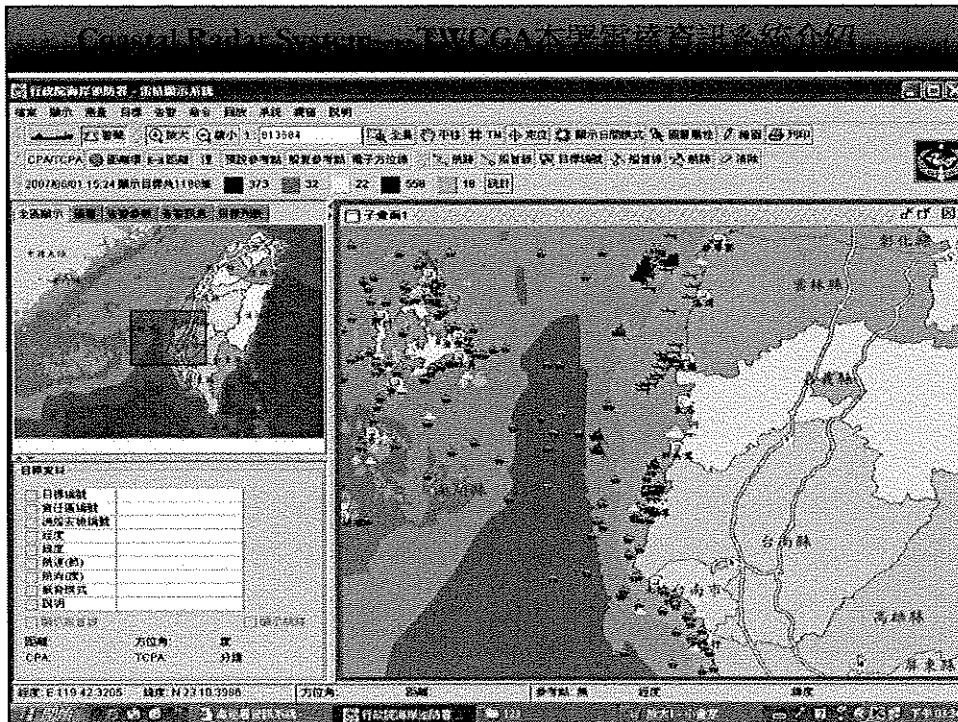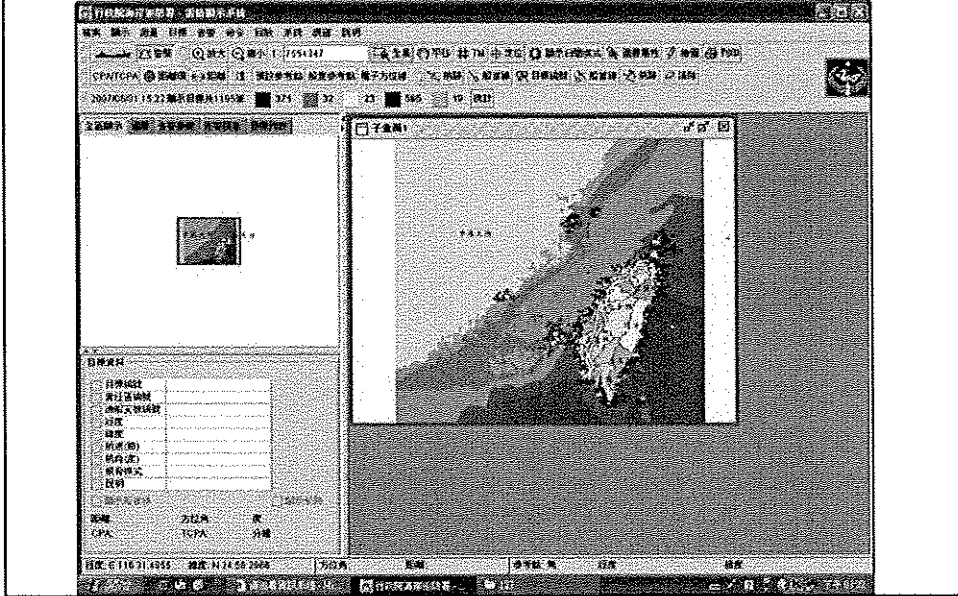
VMS
(Vessel Monitoring System)
農委會漁業署「漁船船位監控系統」

- More than 2,400 Taiwanese fishing boats have registered for implementing VMS
- 目前全國登記安裝VMS漁船數量計有二千四百餘艘
- TWCGA connected to "VMS" so as to acquire related geographic data regarding boats and subsequently construct "Coast Guard Radar Information System" by integrating the information of fishing boats sites onto WebGIS, (Web site for Geographic Information System)
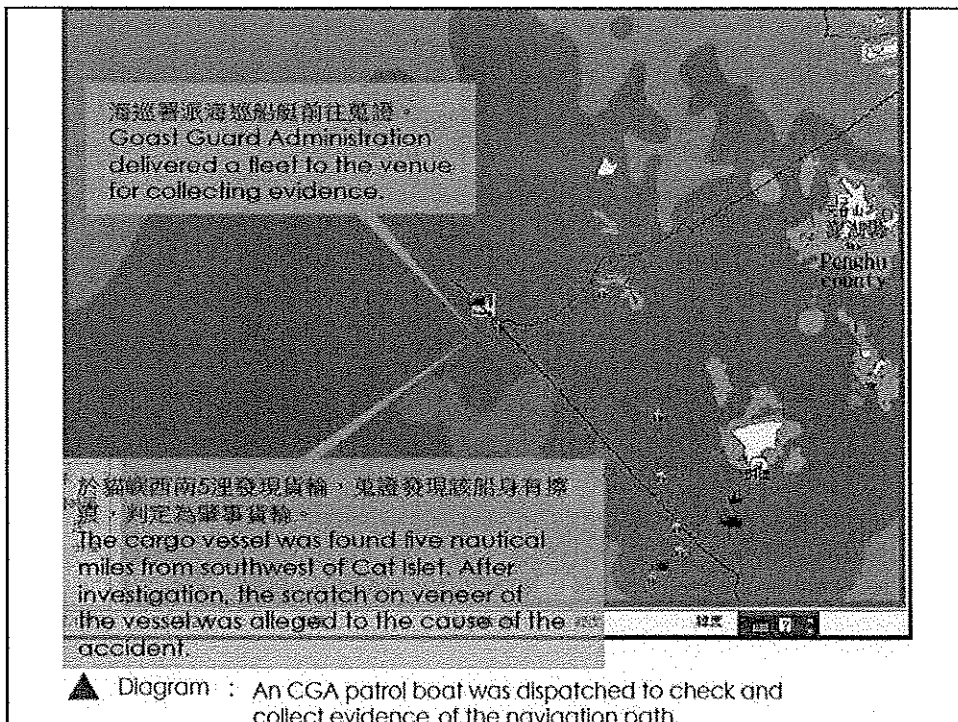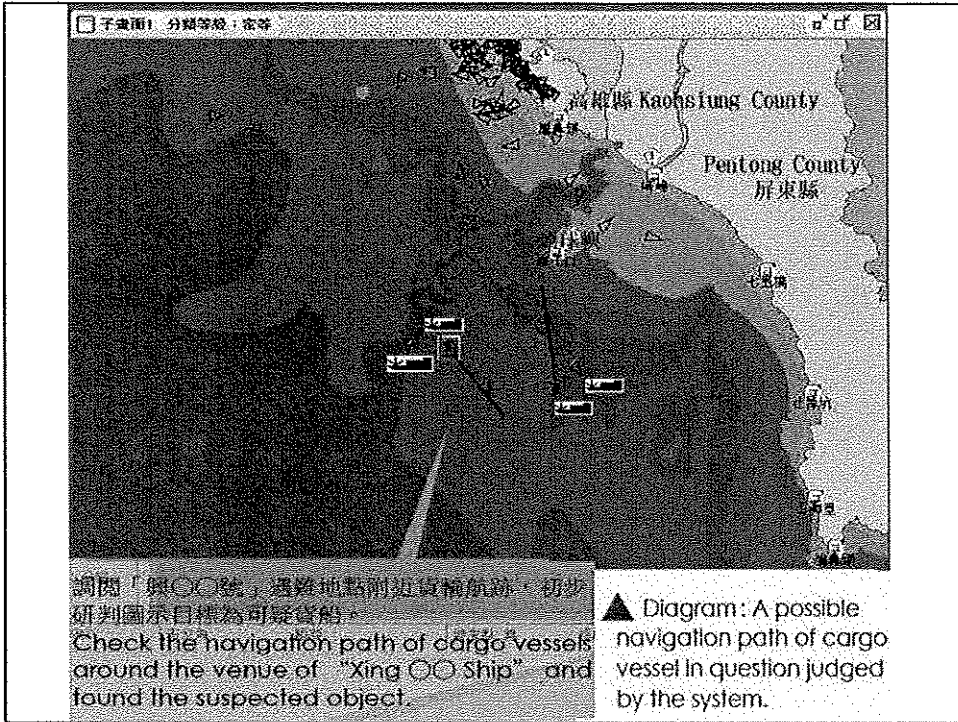- 積極辦理農委會漁業署「漁船船位監控系統（VMS）」相關船位資訊鏈結作業，並整合於「海巡雷達資訊系統」，將相關漁船船位資訊顯示於網路地理資訊系統（WebGIS），提供海巡署各級執勤單位運用。

AIS
(Automatic Identification System)
船舶自動辨識系統

- CGA connected to AIS information center for access to the related data such as ship sites, the unique identifier, name of ship, call signs and logged onto Radar Indicator.本署鏈結取得「船舶自動辨識系統」船舶點位、唯一識別碼、船名、呼號等相關資訊。
- "Coast Guard Radar Information System" serves a platform for information exchanges in hopes of increasing the radar target identification information of merchant ships and cargo vessels and grasping the navigation tracks of ships around Taiwan. 「船舶自動辨識系統」整合於本署雷情顯示平台，相關資訊將可與雷情目標資訊結合，以提升商貨輪雷情目標識別資訊，能有效掌握臺灣本島周遭海船舶航行動態。

Effects效益

- To identify the locations of accidents and verify the vessels in no time
- 明確掌握遇難事故位置，迅速辨識海上目標，即時到達現場救援。
- To protect the safety of ships navigating at sea
- 維護海上船舶航行安全。
- To build a complete data regarding ships for inquiries
- 完備建置船舶資料庫，俾利查詢運用。
- To build a cross-agencies platform of information exchanges by integrating the dynamic and static data of vessels
- 整合船舶動、靜態資料，建立跨機關交換平台。
- To relieve the burdens of the staff on duty by changing the processes of radar identity built-up
- 改善雷達身分賦予流程，減輕執勤人員負擔。
- To construct e-system of vessel information and increase the efficiency of missions of patrol at sea
- 船舶資訊e化，提升海巡任務執行效能。

Case Study
案例說明

調閱「興○○號」遇難地點附近貨輪航跡，初步研判圖示目標為可疑貨船。
Check the navigation path of cargo vessels around the venue of "Xing ○○ Ship" and found the suspected object.

▲ Diagram : A possible navigation path of cargo vessel in question judged by the system.

海巡署派海巡船艇前往蒐證。
Coast Guard Administration delivered a fleet to the venue for collecting evidence.

於貓嶼西南5浬發現貨輪，電詢發現該船身有擦痕，判定為肇事貨輪。
The cargo vessel was found five nautical miles from southwest of Cat Islet. After investigation, the scratch on veneer of the vessel was alleged to the cause of the accident.

▲ Diagram : An CGA patrol boat was dispatched to check and collect evidence of the navigation path.

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Thank You
謝謝指導

聯絡方式

Mark Su

Section Chief

Coast Guard

Desk: +886-2-2239-2902 ext 362979

HP: +886-939-345-416

Email: Mark.su@cga.gov.tw