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NPS Center for Civil-Military Relations (CCMR) Counter-Terrorism Program Assists Allies and Partners

Countering maritime terrorism, piracy and other threats to the maritime domain requires knowledgeable, competent and capable interagency and international partners. Over the past few years, the CCMR Counter-Terrorism Program, first established in 2002, has expanded its executive education course offerings to cover maritime security. Through its extensive network of retired Navy and Coast Guard officers, academics and civilian public safety and industry experts, all with decades of experience in maritime security issues, it has conducted numerous bilateral, regional and global week-long seminars specifically tailored to the maritime security needs of individual countries or regions.

In addition to its in-residence course “Responses to Maritime Violence” offered every April and September which brings mid to senior -grade international and U.S. Navy, Coast Guard, Law enforcement and civilian officers to Monterey, the CCMR CT program works actively with the regional combatant commands to provide executive education in maritime security issues to countries and regions of concern.

In 2010, CCMR conducted regional maritime security programs in West Africa and South Asia. Approximately 35 mid to senior grade West African military officers from Cameroon, Nigeria and the other Gulf of Guinea countries participated in the conference in Doula, Cameroon in June. In July, CCMR conducted a South Asia Regional Maritime Security Seminar in Male, Maldives for thirty-five representatives from the Maldives, Bangladesh and Sri Lanka.

In 2011, CCMR’s maritime security team expanded its programs to the Middle East and Central America.

- **Beirut, Lebanon** - In June, a two-person CCMR team of CAPT Tim Doorey, USN (Ret.), former Senior Intelligence Officer at NPS, and CDR Brad Sultzer, USCG (Ret.) conducted a program for twenty-one Lebanese Navy, Army, Customs, and port security officials.
- **Colombo, Sri Lanka** - In July, CCMR co-hosted, with the Pacific Command and the Sri Lankan Navy, the South Asia Maritime Security Conference (MARSEC) for ninety officials from the Maldives, Bangladesh, Sri Lanka and the U.S. The three-person CCMR faculty was assisted by presentations by the Director of the International Maritime Bureau, and an Australian representative from Singapore’s Information Fusion Centre.
- **Monrovia, Liberia** – In August, CCMR completed its second West African Maritime Security Seminar with twenty-nine representatives from the Ivory Coast, Guinea, Sierra Leone and Liberia, as well as U.S. ODC and DATT representatives from the four countries.
- **San Salvador, El Salvador** - In August, CCMR conducted the first Regional Maritime Security program in El Salvador with participants from all of the Central American navies and coast guards, as well as representatives from Colombia, Mexico and the Dominican Republic.

The CCMR maritime security programs encourage participants to build their interagency and international networks. Instruction focuses on “best practices” in maritime domain awareness, maritime governance, port security, risk assessment, consequence management, counter-terrorism and anti-piracy.

Connect to the CCMR website for more information:

http://www.ccmr.org/public/spd.cfm/spi/ct_test

Article contributed by: CAPT Tim Doorey, USN Ret.

Maritime Analysis Sources

This is a compilation of Open Source sites that have been of value in researching Maritime Targets. It is not a complete list but can serve as a guide for researching vessels, ports, shipping companies, and maritime operations. (This list was provided by Mr. James Rhetta, a recently retired DoD contractor.)



A search of the vessel name and IMO# can be conducted thru the following sites. There is a chance that each site may not have the vessel listed due to incomplete records, so it's usually necessary to check 2-3 to confirm the vessel. You may notice some have different registries listed for the same vessel due to them changing flags and some sites not keeping up with registration changes as fast as other sites do.

Vessel Tracker- good start for vessel searches - <http://www.vesseltracker.com/en/VesselArchive.html>

Digital Seas requires a no-fee membership - <http://www.digital-seas.com/registration.html>

DNV Exchange, another no-fee membership - <https://exchange.dnv.com/exchange/main.aspx>

World Shipping Registry. With proviso of "not for use by military" <http://82.146.41.123/ships.htm>

Ship Spotting. A collection of vessel photos and info. <http://www.shipspotting.com/>

This site is for ships on the high seas out of sight of AIS.

<http://www.sailwx.info/shiptrack/index.html> Part of the ship-borne weather reporting network.

Cruise Ship Locations globally - <http://www.sailwx.info/shiptrack/cruiseships.phtml>

Large Cruising Yacht locations globally - <http://www.sailwx.info/shiptrack/yotreps.phtml>

Marine Traffic:

A search of the Ship Galleries can provide a photo of a vessel.

<http://www.marinetraffic.com/ais/default.aspx?centerx=30¢ery=25&zoom=2&level1=140>

On the left they list vessel ID and info and list "Itinerates History." This may provide where it is, where it has been, and the declared destination.

If the vessel is not found in these directories - it is probably a fishing vessel or a regional vessel of less than 600 GWT that do not require AIS transponders, and are too small, and not listed on a main registry.

For fishing vessels, the EU Fishing Boat registry is not complete but has yielded results in the past. The "simple search" category on the left on the website below is the starting point.

<http://ec.europa.eu/fisheries/fleet/index.cfm?method=Search.menu>

Maritime Analysis Sources (Continued)

Ship Types

Listing of types and descriptions - http://en.wikipedia.org/wiki/Category:Ship_types

Ship Design, Safety and Standards

IMO standards - <http://www.imo.org/OurWork/Safety/ShipDesign/Pages/Default.aspx>

International Maritime Organization

Home page and Info - <http://www.imo.org/Pages/home.aspx>

To find an IMO number. Try this site at Lloyds. You need a member sign-up but it's a free service.

http://www.imonumbers.lfairplay.com/logon.aspx?reason=denied_empty&script_name=/authenticated/companies.aspx&path_info=/authenticated/companies.aspx

Need to call a vessel via INMARSAT?

Vessel Phone numbers - http://www.inmarsat.com/Services/Maritime/Ships_Directory/default.aspx

Need to find the Vessel's Radio Call Sign?

Find the Call Sign with the vessel name - http://www.itu.int/online/mms/mars/ship_search.sh

For Maritime Weather reporting;

US NOAA Reporting - <http://www.weather.gov/om/marine/home.htm>

Global Tides and currents info - <http://www.sailwx.info/tides/index.phtml>

Global Wave heights - <http://www.sailwx.info/wxobs/waveheight.phtml>

Global Wind Directions - <http://www.sailwx.info/wxobs/winddirection.phtml>

Global Wind Speeds - <http://www.sailwx.info/wxobs/windspeed.phtml>

Global Barometric pressure - <http://www.sailwx.info/wxobs/pressure.phtml>

Global Visibility reports - <http://www.sailwx.info/wxobs/visibility.phtml>

Global Hurricane Tracking - <http://www.sailwx.info/hurricanes/hurricanes.phtml>

Mediterranean Sea Weather - <http://www.mediterraneanweather.com/satimages.htm>

Global Weather Maps - http://www.hellenicshippingnews.com/index.php?option=com_content&view=category&layout=blog&id=12&Itemid=171

Finding the Owning, Operating and Servicing company for vessels. This can prove difficult due to changing ownerships and the common use of shell companies. These may provide some info;

Global Marine - <http://www.globmaritime.com/search-for-a-company/>

SeaAgent company and vessel search site - <http://seaagent.com/search/index.html>

Info Marine Directory - <http://www.infomarine.gr/index.php>

M-I-Link - <http://www.m-i-link.com/directory/category.asp?bz=21&q=Ship+Manager+%26+Owner>

InfoMarine - <http://www.infomarin.ru/comp/owners7.shtml>

Maritime Companies - <http://users.hal-pc.org/~nugent/company.html> - maritime service companies

SI Network - <http://85.92.194.89/register2/register.asp?rOpt=owner&rSel=4&az=true&search=A>

Cruise Ship Cameras

Site to access cameras on Cruise Ships - <http://www.kroooz-cams.com/carnival/dream.php>

Site to access by Cruise Ship Line - <http://www.cruise-cams.com/>

European Cruise Ship Cameras - <http://www.costacruise.com/eu/webcam.html>

Port Cameras

Site lists about 32 Ports with cameras of some use - <http://www.cruise-cams.com/>

Panama Canal Cameras

<http://cruises.about.com/qi/o.htm?zi=1/>

[XJ&zTi=1&sdn=cruises&cdn=travel&tm=58&qps=89_1311_946_550&f=10&su=p974.9.196.ip_&tt=14&bt=0&bts=0&zu=http%3A//www.panacanal.com/eng/photo/camera-java.html](http://www.panacanal.com/eng/photo/camera-java.html)

Beach Cameras

Beach camera listing - <http://www.livebeachcams.com/>

Another list of some beach Cameras - <http://www.cruise-cams.com/>

Surf Camera listing - <http://www.swellwatch.com/cams/>

Maritime Analysis Sources (Continued)

Shipping Line Schedules:

<http://www.jocsailings.com/>

<http://www.weixin.com.vn/schedule/index.asp?hangid=69>

Significant Shipping Lines: These move most of the global maritime cargo and have Vessels, Schedules, and usually Container Tracking on their sites.

APL - <http://www.apl.com/>

CMA CGA - <http://www.cma-cgm.com/>

COSCO - <http://www.coscon.com/ebusiness/service/sailingSchedule.do>

CSCL - <http://222.66.158.204/module/csp/index.jsp?userside=WAN&lang=EN&do&mod=CSP>

Gold Star Line - http://www.gslltd.com.hk/sailing_schedule.html

Hapag-Lloyd - <http://www.hapag-lloyd.com/en/home.html>

Hanjin Shipping - <http://www.hanjin.com/en/main.html>

Hyundai Line - <http://www.hmm21.com/cms/business/usa/schedule/trade/index.jsp>

Maersk Line - http://www.maerskline.com/link/?page=brochure&path=/our_services

Mediterranean Shipping Company - <http://www.msccva.ch/schedule.html>

NYK Lines - <http://www2.nykline.com/>

When a ship arrives at a port:

Port Arrivals - <http://www.portarrivals.com/vsl.asp>

Shipping Containers:

Specifications - <http://www.oceancontainer.com/specs.html>

ISO Standards, history, and construction specs- <http://www.residentialshippingcontainerprimer.com/ISO%20Intermodal%20Cargo%20Shipping%20Containers>

Shipping Container Tracking:

Find Containers moved by 102 Shipping Lines - <http://www.track-trace.com/container>

Track containers by 85+ Shipping Lines - <http://www.seacargotracking.net/>

Ports and Harbors and Port Authorities. These sites provide initial contact and statistics.

Port Focus - <http://portfocus.com/index.html>

World Sea Ports Registry - <http://e-ships.net/ports.php>

Global listing of Ports by Region - <http://www.overseasmaritime.com/ports/>

World Port Source - <http://www.worldportsource.com/ports/>

Nations participating in the Memorandum of Understanding on Port State Control conduct vessel safety inspections.

Ships that fail and are detained or banned from Ports are listed here:

Paris MOU - http://www.parismou.org/inspection_efforts/

Tokyo MOU - <http://www.tokyo-mou.org/>

Black Sea MOU - <http://www.bsmou.org/default2.htm>

Indian Ocean MOU - <http://www.iomou.org/shiponwatch.htm>

Latin America MOU - <http://200.45.69.62/>

Caribbean MOU - <http://200.45.69.62/>

West African or Ajuba MOU - <http://www.abujamou.org/>

US Coast Guard MOU - <http://homeport.uscg.mil/mycg/portal/ep/browse.do?channelId=-18371>

Need to find or calculate distances between ports or on a vessel route?

Between ports - <http://www.infoplease.com/atlas/calculate-distance.html>

Between coordinates - <http://jan.ucc.nau.edu/~cvm/latlongdist.html>

End coordinates from a start and distance - <http://transition.fcc.gov/mb/audio/bickel/sprong.html>

Time at vessel locations: World time clock - <http://www.timeanddate.com/worldclock/>

Maritime Analysis Sources (Continued)

Sail Boats:

Finding private sailing vessels is difficult due to incomplete registries and some legal restrictions.
Sailboat Names - http://www.10000boatnames.com/index.php?option=com_frontpage&Itemid=1
Some US sailboats by States - <http://publicrecords.onlinesearches.com/>
Title and records in US - <http://www.marinetitle.com/vesselrecordsearch.htm>

Suez Canal Transits:

Recent transits - http://www.lethsuez.com/suez_transits_grid.asp
Transit histories - http://www.lethsuez.com/suez_transits_grid_advanced.asp

Panama Canal Transits:

Transit info - <http://www.cfernie.com/index.php?option=content&task=view&id=22>
Panama Canal Info - <http://www.pancanal.com/eng/index.html>

Piracy on the High Seas: Live Reporting from the International Chamber of Commerce Piracy Reporting Center
http://www.iccccs.org/index.php?option=com_fabrik&view=visualization&controller=visualization.googlemap&Itemid=219

Maritime News and Industry reporting:

Lloyd's List - <http://www.lloydslist.com/ll/>
Marine Link - <http://www.marinelink.com/>
World Maritime News - <http://www.worldmaritimeneeds.com/news/Shipping/15>
Shipping News - <http://shipping.einnews.com/>
Marine Log - <http://www.marinelog.com/>
Marine Talk & Technical News - <http://www.marinetalk.com/>
Tanker Ship News - <http://www.intertanko.com/>

For Law of the Sea, Maritime law, Admiralty Law, and legal definitions:

Law Firm - <http://www.cargolaw.com>
Tetley's Admiralty Law Firm - <http://www.mcqill.ca/maritimelaw/>
Glossary of Maritime Legal Terms - <http://www.mcqill.ca/maritimelaw/glossaries/maritime/>
Maritime Labor Law and the Jones Act - <http://www.shipguide.com/>
UN conventions - http://www.un.org/Depts/los/convention_agreements/texts/unclos/closindx.htm

USCG Navigation Rules:

Rules of the Road - <http://www.navcen.uscg.gov/?pageName=navRulesContent>
US Radio Frequency Use - <http://www.navcen.uscg.gov/?pageName=mtVhf>
International Maritime Radio Channels - <http://www.navcen.uscg.gov/?pageName=apps18>

National ship registries, (the principal ones):

Japan - <http://www.classnk.or.jp/hp/register/regships/regships.asp>
Norway - <http://www.nis-nor.no/S%C3%B8k/SkipAktuelleData.aspx>
Greece - <http://www.infomarine.gr/greece/>
Liberia - <http://www.liscr.com/liscr>
Korea - <http://www.krs.co.kr/eng/index.html>

Vessel Casualties/Wrecked/Salvaged or removed:

Recent vessel casualties - http://www.cargolaw.com/presentations_casualties.php
Registry of Shipwrecks - <http://www.shipwreckregistry.com/index27.htm>
Titan Salvage Co - <http://www.titansalvage.com>
Mammoet Salvage and Lifting - <http://www.mammoet.com/>
Crowley Salvage - <http://www.crowley.com/What-We-Do/Marine-Salvage-Wreck-Removal-and-Emergency-Response/Overview>

The LIBRARIAN'S CORNER— *Greta Marlatt*, gmarlatt@nps.edu**NPS THESES**

Sloutmaker, Leslie A, “**COUNTERING PIRACY WITH THE NEXT-GENERATION PIRACY PERFORMANCE SURFACE MODEL**” , published in March 2011

Abstract: In 2009, the Naval Oceanographic Office was tasked with developing a product that uses forecasted meteorological conditions and historical pirate incidents to predict locations conducive to pirate activity in the Somali Basin Region and the Gulf of Aden. This resulted in the development of the Piracy Performance Surface (PPS) model, whose outputs are briefed daily to the Commander of the United States Naval Forces Central Command and Combined Maritime Forces in Bahrain. The Next-generation PPS (PPSN) model uses simulation to provide as output, a forecast of relative pirate presence probability over time. Effective March 1, 2011, the name of PPSN has been changed to the Pirate Attack Risk Surface (PARS) model.

This research includes interviews with counter-piracy forces that led to recommended changes in the PPSN model. In addition, using robust and realistic experimental designs, this research identifies the significant intelligence factors of the PPSN model. This gathered information is being used to refine these input variables to achieve maximum performance of the PPSN model. This research also unveiled input variables that are influential in the computing memory requirements and program runtime. This information is being used to focus efforts on setting these variables to realistic levels without sacrificing the model's efficiency and effectiveness. Finally, the results of this thesis allow for quick turn-around of updates to the PPSN model in response to gathered intelligence.

http://edocs.nps.edu/npspubs/scholarly/theses/2011/March/11Mar_Sloutmaker.pdf

Cheney, David J., “**MEASUREMENTS OF THE AIR-SEA INTERFACE FROM AN INSTRUMENTED SMALL BUOY**”, published in September 2011

Abstract: An instrumented spar buoy, Met-on-a-Stick (MOAS), was designed, deployed, and validated for measuring the air sea interface processes at multiple levels. This system was deployed in June 2010 off the coast of California, and January and February 2011 in Monterey Bay. The system provides mean measurements of wind, temperature, and humidity at multiple levels within 3 m above the sea surface and measurements of sea surface temperature at three levels below ocean surface. It is small enough to be deployed and retrieved by two people. This thesis work introduces the design and the instrumentation of the system and evaluates the ability of the system for characterizing near-surface vertical variations of the marine boundary layer. The results indicate that the platform performance is as expected and is capable of providing measurements to characterize the fine variations close to the air-sea interface. We foresee a broad use of the MOAS in the future due to its low-cost and ease of deployment. Future improvements of the system include the use of better wind and GPS sensors to increase the quality of wind and wave measurements from the MOAS.

http://edocs.nps.edu/npspubs/scholarly/theses/2011/September/11Sep_Cheney.pdf

Future Events:

January 26-28 4th International Forum On Maritime and Port Risk Prevention, Nantes France

<http://www.marisk2012.com/>

March 20-22 Defence IQ's Offshore Patrol Vessels Asia-Pacific, Singapore

<http://www.offshorepatrolasia.com/>