

Annual Assembly Meeting and Conference of the Radio Technical Commission for Maritime Services (RTCM 2015)

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3-8 May 2015

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SUNDAY		
17.00 – 19.30	Registration Desk	<i>Hotel Lobby</i>
18.30 – 20.30	Welcome Reception	Mainsail/Spinnaker
MONDAY		
08:00 – 09:00	<i>Continental Breakfast</i>	<i>Annapolis Atrium</i>
08.30 – 15.30	Registration Desk	<i>Annapolis Atrium</i>
09.00	Opening Session Annual Assembly (Business Meeting) Chuck Husick Award RTCM Report 1	<i>Ballroom A-B</i> George Lariviere, RTCM Board Chairman Bob Markle, RTCM President
09.45	<i>Refreshments</i>	<i>Annapolis Atrium</i>
10.15	Allied Organizations' Activities, Regulations and Standards (session moderator: Larry Solomon, Iridium Satellite)	<i>Ballroom A-B</i>
	Space is Not Enough 10 CIRM Report on the Past Year 20 U.S. Federal Communications Commission Maritime Actions 25 Activities of IEC Technical Committee 80, Maritime Navigation and Radio- communication Equipment and Systems 34	Dana Goward, President, Resilient PNT Foundation, USA Richard Doherty, CTO/Deputy Secretary- General, CIRM, UK Ghassan Khalek, Federal Communications Commission, USA Chris Hoffman, ACR Electronics, USA/UK
12:00	<i>Lunch</i>	<i>Annapolis Atrium</i>
13.30	Maritime Cybersecurity (session moderator: Joe Hersey, JoeCel Engineering, USA)	<i>Ballroom A-B</i>
	MTS Cyber Risk Management 78 Critical Key Infrastructure for the CG and the Maritime Transportation System 49	Geoff White, U.S. Coast Guard Brett Rouzer, U.S. Coast Guard
14.30	<i>Refreshments</i>	<i>Annapolis Atrium</i>
15.00	Maritime Cybersecurity (session moderator: Joe Hersey, JoeCel Engineering, USA)	<i>Ballroom A-B</i>
	Shipboard Security Issues – An Industry View 86 Design Principles for Authenticated Communication 95	Dave Blevins, Northrop Grumman Maritime Systems, USA Dr. Dave Levin, University of Maryland, USA
17.00	RTCM Board meeting	<i>Ballroom C</i>

TUESDAY		
08:00 – 09:00	<i>Continental Breakfast</i>	<i>Annapolis Atrium</i>
08.30 – 14.30	Registration Desk	<i>Annapolis Atrium</i>
09.00	Automatic Identification Systems and Tracking (session moderator: Jorge Arroyo, U.S. Coast Guard)	<i>Ballroom A-B</i>
	exactEarth AIS Satellite Services 139 Maritime Data Exchange 151 ORBCOMM Maritime Satellite Services 170	Peg Browning, exactEarth, Canada Mark Johnson, Shine Micro, USA Andrew Loretta, ORBCOMM, USA

10.15	<i>Refreshments</i>		<i>Annapolis Atrium</i>
10.45	Navigation Regulations and Services (session moderator: Russ Levin)		<i>Ballroom A-B</i>
	Mobile Devices - A Federal & Industry Logistics Standards (FILS) Issue 188	Jim Taylor, MarineNet, LLC, USA	
	Expanding AIS Carriage and New Operating Requirements 198	Jorge Arroyo, U.S. Coast Guard	
	Planning for the VHF Data Exchange Service (VDES) in WRC-15 209	Ross Norsworthy, REC, Inc., USA	
12.00	<i>Lunch</i>		<i>Annapolis Atrium</i>
13.30	Satellite Services (session moderator: Ed Gilbert, Gilbert & Assoc., USA)		<i>Ballroom A-B</i>
	Key Initiatives and Trends in Mobile Satellite Communications 226	Frank August, Satcom Studios LLC / Mobile Satellite Users Association (MSUA), USA	
	Iridium Maritime Commercial and Safety Services 231	Brian Pemberton, Iridium, USA	
	Distress Tracking and ICAO's Global Aeronautical Distress and Safety System . 239	Mike Barton, International Civil Aviation Organization (ICAO), Canada	
15.00	<i>Refreshments</i>		<i>Annapolis Atrium</i>
15.30	GMDSS Modernization (session moderator: Capt. Jack Fuechsel, GMDSS Task Force)		<i>Ballroom A-B</i>
	IMO's GMDSS Modernization Project 260	Bob Markle, RTCM, USA	
	Providing Maritime Safety Information to the Mariner 268	Chris Janus, U.S. National Geospatial-Intelligence Agency, USA	
WEDNESDAY			
08:00 – 09:00	<i>Continental Breakfast</i>		<i>Annapolis Atrium</i>
08.30 – 13.30	Registration Desk		<i>Annapolis Atrium</i>
09.00	Distress and Navigation Technologies (session moderator: Peter Forey, Sartech, UK)		<i>Ballroom A-B</i>
	USCG Consumption of Cellular NG911 304	Valerie M. Arris, C4ISR	
	ACR's SARLink 343	Paul Steward, ACR Electronics, USA	
	Alternatives to Pyrotechnic Distress Signals 355	Low Lewandowski, U.S. Coast Guard R&D Center	
10.30	<i>Refreshments</i>		<i>Annapolis Atrium</i>
11.00	NMEA Interface Standards Update 380 Steve Spitzer, NMEA Lee Luft, U.S. Coast Guard R&D Center	<i>Ballroom A-B</i>	RTCM Special Committee 132 <i>Ballroom C</i> Electronic Visual Distress Signals Chairman, Marty Jackson, U.S. Coast Guard
12.00	<i>Lunch</i>		<i>Annapolis Atrium</i>
13.30	RTCM Workshop on Cospas-Sarsat Type Approval (by invitation please)		<i>Ballroom C</i>
13.30	eNavigation Developments Marine Transportation Systems and eNavigation 420 eNavigation and the American Pilots Association 430		<i>Ballroom A-B</i> CDR John Stone and Dave Lewald, U.S. Coast Guard Bill Cairns, American Pilots Association, USA

	IHO S101 - The new IHO Electronic Navigational Chart Product Specification .444 Unmanned Maritime Systems (UMS) 458	Julia Powell and Christine Schultz, NOAA National Ocean Service, USA Steve Ward
15.30	<i>Refreshments</i>	<i>Annapolis Atrium</i>

THURSDAY		
08:00 – 09:00	<i>Continental Breakfast</i>	<i>Annapolis Atrium</i>
08.30 – 11.00	Registration Desk	<i>Annapolis Atrium</i>
10.30	<i>Refreshments</i>	<i>Annapolis Atrium</i>
12.00	<i>Lunch</i>	<i>Annapolis Atrium</i>
15.00	<i>Refreshments</i>	<i>Annapolis Atrium</i>
09.00 – 12.30	GMDSS Task Force 463 Sponsored by the U.S. Coast Guard, open to all meeting registrants and the public. The Task Force considers matters of current interest in maritime communications. The meeting may continue in informal session on Thursday afternoon to discuss possible revisions to the U.S. FCC regulations for Stations in the Maritime Services.	<i>Ballroom A</i>
	ELB Rulemaking - A Few Cases of Interest January-May 2015 463 Gordy Garrett	
	Presentation of FCC Maritime Actions 476 Ghassan Khalek	
	SafetyNET GMDSS Task Force RTCM 2015 485 Christopher Janus	
	Saved by the Beacon Campaign 499 N/A	
09.00 – 17.30	RTCM Special Committee 110 on Emergency Beacons N/A Open to all meeting registrants - This committee is responsible for RTCM's technical standards for Emergency Position Indicating Radio Beacons (EPIRB) and Personal Locator Beacons (PLB). It is actively involved in the development of Second Generation Beacon standards optimized for operation in the new Cospas-Sarsat MEOSAR system.	<i>Ballroom B</i>
09.00 – 17.30	RTCM Special Committee 131 on Multi-System Shipborne Navigation Receivers N/A Open to all meeting registrants - Working with IALA, this committee developed a performance standard for a Multi-System Shipborne Navigation Receiver which will become an IMO performance standard. It also includes the possibility for use of terrestrial systems such as eLoran. The committee is considering an RTCM standard including test procedures that may become an IEC standard.	<i>Ballroom C</i>

FRIDAY		
08.00 – 09:00	<i>Continental Breakfast</i>	<i>Annapolis Atrium</i>
10.30	<i>Refreshments</i>	<i>Annapolis Atrium</i>
12.00	<i>Lunch</i>	<i>Annapolis Atrium</i>
15.15	<i>Refreshments</i>	<i>Annapolis Atrium</i>
09.00 – 16.30	NOAA Beacon Manufacturers Workshop 499 The Beacon Manufacturer's Workshop, sponsored by the SARSAT Program Office, NOAA, U.S. Department of Commerce, will consider issues related to 406 MHz Satellite Emergency Position-Indicating Radiobeacons (EPIRBs), Emergency Locator Transmitters (ELTs), Personal Locator Beacons (PLB's), and the COSPAS-SARSAT System. Items to be addressed include Beacon Type Approval Testing, Next Generation (MEOSAR) Beacons and Beacon Registration among other topics. Open to all meeting registrants and the public, but separate registration is required.	<i>Ballroom</i>
09.00 – 10.30	RTCM Special Committee 112 on Ship Radar N/A Open to all meeting registrants - This committee is responsible for RTCM's technical standards for Non-SOLAS radar.	<i>Point Lookout</i>
11.00 – 17.30	RTCM eNavigation Steering Committee N/A Open to all meeting registrants – The committee will complete Terms of Reference for a new Special Committee on Data Transfer for Mobile Devices. It will also outline RTCM's response to a DOT request for comments on establishment of a national eLoran system.	<i>Point Lookout</i>



Beacon Manufacturers Workshop
Friday, May 8, 2015
Annapolis, Maryland
AGENDA

- 0830 - 0900 **Registration**
- 0900 - 0910 **Welcome**
Christopher O'Connors, NOAA, SARSAT Program Manager
- 0910 - 0930 **Introductions & Opening Remarks**
Review of Prior Years Action Items
Mickey Fitzmaurice, NOAA (Chairman)
- 0930 - 1000 **Cospas-Sarsat Update 503**
Dany St. Pierre, Cospas-Sarsat Secretariat
- 1000 - 1020 **RTCA SC-229 Update 519**
Tom Pack, RTCA
- 1020 - 1035 **ICAO's Global Aviation Distress and Safety System Concept 526**
Mike Barton, ICAO/ANB
- 1035 - 1050 **Morning Break (*Sponsored by ACR Electronics, Inc.*)**
- 1050 - 1130 **MEOSAR D&E Update (Test Results, Ground Segment Update) 533**
George Theodorakos, NASA/ASRC
- 1130 - 1200 **Second Generation Beacon Update (Test Results, Outstanding Issues) 538**
George Theodorakos, NASA/ASRC
- 1200 - 1330 **Lunch (*Sponsored by ACR Electronics, Inc.*)**
- 1330 - 1350 **RTCA SC-229/WG-2 ELT Survivability 542**
Tony Foster, NASA
- 1350 - 1410 **RTCM Sub-Committee Update (SC-110) 551**
Chris Hoffman, RTCM
- 1410 - 14305 **Homing & Intelligent Transmit Schedule Correspondence Group 560**
Ed Thiedeman, USCG
- 1430 - 1450 **Beacon Use, Issues and 406 MHz Beacon Registration Database 565**
NOTE: Beacon Registration statistics material is available on SARSAT website.
Apurve Mathur, NOAA/ERT
- 1450 - 1510 **Beacon Type Approval Process 581**
Jesse Reich, NOAA
- 1510 - 1530 **Afternoon Break (*Sponsored by ACR Electronics, Inc.*)**
- 1530 - 1600 **Cospas-Sarsat - Beacon Manufacturers Survey 590**
Andrey Zhitenov, Cospas-Sarsat Secretariat
- 1600 - 1630 **Review of Action Items/Wrap-Up/Closing Remarks**

Additional Paper

S-101 - The New IHO Electronic Navigation Chart Product Specification 598
Julia Powell