



Safety of Life at Sea: Rescue 21 - Search & Rescue in the 21st Century



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In 1787, Alexander Hamilton envisioned that "a few armed vessels, judiciously stationed at the entrances of our ports, might at a small expense be made useful sentinels of our laws." Fast forward to today and I am sure that Alexander Hamilton would be astonished at the breadth, depth and intensity of duties carried out by the United States Coast Guard. A major expansion in our ability to conduct the missions and duties established by the Commandant of the United States Coast Guard is through "Rescue 21." (See SSP, 3/24/10, "Safety of Life at Sea: Rescue 21 - USCG Rescue System in the 21st Century") This column is the update on what it is and where it is working.

Rescue 21 - What Is It?

Rescue 21 is the first major overhaul of the USCG communications system since the 1970s. Rescue 21 is replacing a wide range of aging, obsolete VHF-FM radio communications equipment:

- Workstations/consoles at about 270 Coast Guard facilities
- All remote transceiver sites, as well as the network connecting them to the facilities above
- Approximately 3,000 portable radios
- Direction finding capability greatly improved to +/- 2 degrees
- Communications coverage gaps in existing system greatly reduced

Further, it entails several, integrated capabilities:

- Direction-finding capability

- Reduction of coverage gaps along the coast
- Enhanced playback capability improving clarity of calls
- Digital archiving of calls
- Increased (and simultaneous) channel monitoring capacity, ensuring all calls get through

Rescue 21 is "standing the watch." **Who Is Live and Who Is Next:**

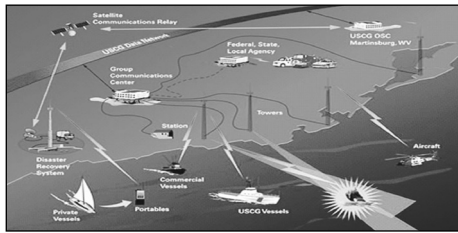
After a long, multi-year implementation, Rescue 21 is operational along the entire Atlantic, Pacific and Gulf coasts of the continental United States as well as along the shores of the Great Lakes, Hawaii, Puerto Rico, the U.S. Virgin Islands, Guam, and the Northern Marianas Islands, covering approximately 41,871 miles of coastline. The system was accepted at Sector Buffalo Aug. 22, 2012.

Rescue 21 - How Does It Work?

Well, to start with, here is a list of all the equipment you need to be part of it:

1. A standard VHF radio
2. Nothing else

If it is a "DSC" radio, which will certainly help, but, bottom line, all you need to be able to call for help and have it responded to in 21st century fashion is a standard VHF radio...



Here's what happens:

1. You send your distress/May-day call. It is automatically recorded and digitized by the station receiving it.

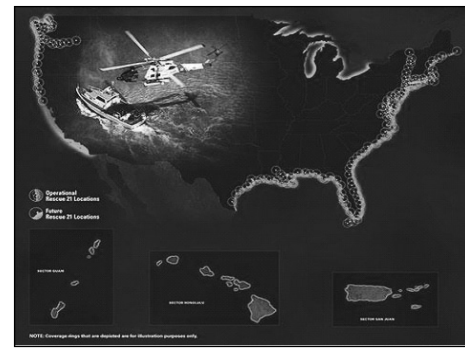
2. Direction Finding (DF) equipment from one or more high sites computes the direction from which the signal originated, or line of bearing (LOB). Recall reading about 400' radio towers being installed at USCG stations in the area? This is why.

3. Your distress audio and the LOB are sent to the closest Ground Center(s).

4. Appropriate resources (planes, helicopters, boats) are dispatched to respond immediately - even across regional boundaries. No turf wars in our surf. You're in danger. We're coming.

You might say, "Well, direction finding technology has been around for decades. What's the big deal?" While true and I've used it, this new digital technology is accurate to within +/- 2 degrees. Like a trusty pointer, USCG resources will fly down that Line Of Bearing - and find you.

Who knows, with Rescue 21 in place,



what the future holds - but greater safety of life at sea is part of it.

Oh, and one other thing that Rescue-21 does well... it quickly triangulates on false may-days too... From the Jacksonville, NC, Daily News, on March 10, 2010:

JACKSONVILLE -- A Holly Ridge man has agreed to pay nearly a quarter of a million dollars in restitution for false distress calls he made to the Coast Guard. Jeremy C. Fisher, 25, pleaded guilty in federal court to conspiring to make false distress messages. As part of his plea agreement, Fisher agreed to pay \$234,111 restitution to the Coast Guard for all search and rescue costs associated with the hoax calls. William H. Yates, 22, of Sneads Ferry and Steven G. Medina, 21, of Onslow County, each pleaded guilty to one count of aiding and abetting false distress messages. Medina agreed to pay \$233.48, and Yates agreed to pay \$506.80 in restitution, according to a press release from U.S. Attorney George E.B. Holding. Fisher faces up to five years in prison followed by up to three years of supervised release. Yates and Medina each face up to six years in prison followed by up to two years' supervised release.

BTW, if you are interested in being part of USCG Forces, email me at JoinUSCGAux@aol.com or go direct to the D1SR Human Resources department, who are in charge of new members matters, at DSO-HR and we will help you "get in this thing..."

Tides for Moriches Inlet starting with October 3, 2012

Day	High/Low	Tide Time	Height Feet	Sunrise/Sunset	Moon Time	% Moon Visible
Wed. 3	Low	3:02 AM	0.2	6:50 AM	Set 10:12 AM	93
3	High	9:23 AM	3.3	6:29 PM	Rise 8:18 PM	
3	Low	3:42 PM	0.3			
3	High	9:54 PM	2.9			
Thur. 4	Low	3:36 AM	0.4	6:51 AM	Set 11:07 AM	87
4	High	10:02 AM	3.1	6:28 PM	Rise 8:59 PM	
4	Low	4:20 PM	0.4			
4	High	10:40 PM	2.7			
Fri. 5	Low	4:11 AM	0.5	6:52 AM	Set 11:59 AM	80
5	High	10:43 AM	3.0	6:26 PM	Rise 9:45 PM	
5	Low	5:01 PM	0.6			
5	High	11:28 PM	2.5			
Sat. 6	Low	4:48 AM	0.7	6:53 AM	Set 12:47 PM	72
6	High	11:29 AM	2.9	6:24 PM	Rise 10:36 PM	
6	Low	5:49 PM	0.7			
Sun. 7	High	12:18 AM	2.5	6:54 AM	Set 1:31 PM	63
7	Low	5:34 AM	0.8	6:23 PM	Rise 11:30 PM	
7	High	12:18 PM	2.9			
7	Low	6:50 PM	0.8			
Mon. 8	High	1:09 AM	2.4	6:55 AM	Set 2:11 PM	54
8	Low	6:40 AM	0.8	6:21 PM		
8	High	1:10 PM	2.8			
8	Low	7:56 PM	0.7			
Tues. 9	High	2:01 AM	2.5	6:57 AM	Rise 12:28 AM	44
9	Low	7:55 AM	0.8	6:19 PM	Set 2:47 PM	
9	High	2:04 PM	2.9			
9	Low	8:54 PM	0.6			
Wed. 10	High	2:55 AM	2.6	6:58 AM	Rise 1:29 AM	35
10	Low	9:00 AM	0.7	6:18 PM	Set 3:20 PM	
10	High	3:02 PM	2.9			
10	Low	9:44 PM	0.4			
Thur. 11	High	3:50 AM	2.8	6:59 AM	Rise 2:32 AM	25
11	Low	9:56 AM	0.4	6:16 PM	Set 3:52 PM	
11	High	3:59 PM	3.0			
11	Low	10:29 PM	0.2			
Fri. 12	High	4:42 AM	3.1	7:00 AM	Rise 3:38 AM	16
12	Low	10:48 AM	0.2	6:15 PM	Set 4:24 PM	
12	High	4:54 PM	3.2			
12	Low	11:14 PM	0.0			
Sat. 13	High	5:31 AM	3.3	7:01 AM	Rise 4:47 AM	9
13	Low	11:38 AM	0.0	6:13 PM	Set 4:56 PM	
13	High	5:45 PM	3.3			
13	Low	11:58 PM	-0.1			



FISHING WITH TONY

NORTHEAST GROUND FISHERY DECLARED A DISASTER

by TONY SALERNO

On September 13, Acting Secretary of Commerce Rebecca M. Blank sent letters to the governors of the New England states declaring a "Commercial Fishery Failure" for the Northeast Multi Species Ground Fish Complex. Species in the complex include cod, haddock, and flounder, important to both the recreational and commercial fishing sectors. Despite cutbacks in catches and other restrictions, some stocks are not rebuilding as fast as originally predicted.

The disaster relief funding is being offered by the federal government almost exclusively for New England commercial fishermen, but according to the Recreational Fishing Alliance (RFA), the recreational sector is just as deeply impacted by the Commerce Department's actions through NOAA Fisheries in recent years and just as deserving of any federal assistance made available to fishermen.

"This funding could certainly go a long way towards alleviating the financial pain that will likely result from the deep cuts in catches of ground fish expected in 2013," said RFA New England Director Capt. Barry Gibson. "RFA certainly understands the plight of commercial fishermen, but party and charter boat operators who rely on ground fish for much or all of their livelihoods need to be included in the proposed aid package as well."

New England's recreational fishing sector has absorbed significant cutbacks in bag limits, increases in size limits, and a shortening of the cod fishing season to just 6-1/2 months over the past few years. The party/charter sector was excluded from federally funded Northeast permit and vessel buy-backs and other aid programs until 2010, when the RFA made a strong case for full-time operators to be included in a \$30 million aid package that went to Massachusetts.

"When fishery restrictions affect the recreational for-hire fleet, these folks take a financial hit," said Capt. Patrick Paquette, Director of RFA's Massachusetts Chapter. "A precedent has already been established to include qualified for-hire operators in a federal assistance program. We're not sure yet what the criteria might be this time around, but we want to put Congress, NMFS, and the states on notice that the party/charter sector in New England expects to be included in the disaster aid package."

"These operators have obeyed the rules and fished responsibly, but for reasons beyond their control the stocks haven't responded," Paquette said of the recreational fishing industry in New England. "Just like their counterparts in the commercial sector, these guys are going to need some financial help in order to weather this storm."