

# Overview of Search and Rescue Considerations in the U.S. Coast Guard



#### SAR Program Objectives

- Save 84% of people at risk for death on the water
- Prevent the loss of at least <u>80%</u> of property
- Effectiveness and Efficiency

#### > Response Standards

- Initiate action within 5 min of distress notification
- Launch within 30 min of distress notification
- On scene within <u>90 min</u> of launch

### Other Standards

- <u>100%</u> VHF-FM coverage out to 20 NM from shore
- Maximum use of <u>406 MHz EPIRB</u> offshore
- Use of SAROPS and <u>AMVER</u> (on high seas)
- <u>100%</u> attendance and completion of SAR planner training



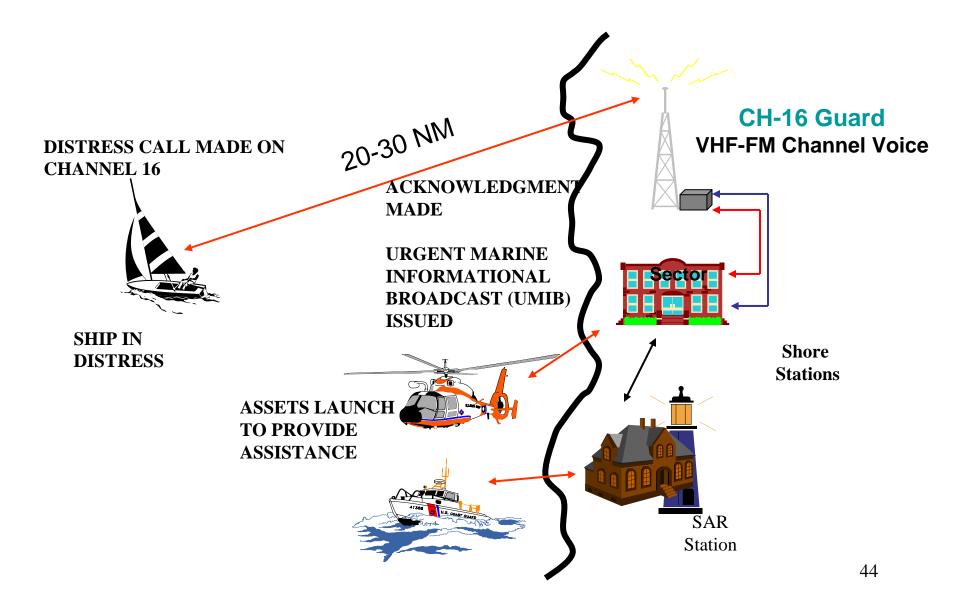
### Maritime SAR Region (SRR)





### **Typical SAR Scenario**









- Key concerns include:
  - SAR over land is different from SAR over water - search objects drift
  - Communications frequencies are different for different transportation modes (land, maritime and aeronautical)
- Aircraft and Merchant Ships are required to carry certain "safety pubs"
  - AIP, IAMSAR Manual Volume III, ...



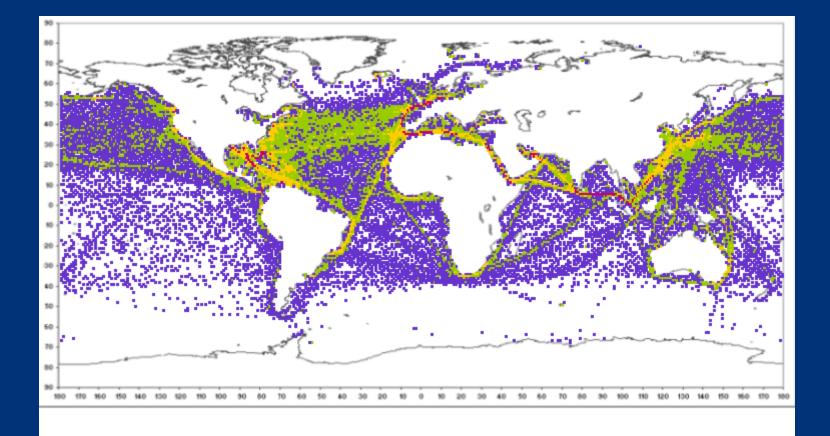
SAR Units (designated Ships, Aircraft and Boats) Augmented by:

- Other Government Agencies
- Military ("Not-to-Interfere" Basis)
- Local Government facilities
- Volunteers (boats and planes)
- Private Companies
- Neighboring States
- Ships at Sea



## **Merchant Shipping Patterns**









- Somewhat similar to air traffic control
- Ships provide a position report to a designated point and in a specified format
- Amver is an example of a Ship Reporting System
  - Global ship reporting system for SAR endorsed by IMO
  - Amver data available to any SAR authority
- Your China Ship Reporting System
- Long-range Identification and Tracking (LRIT) System in 2009