



# Seminar on Satellite-Aided Distress Tracking

Agenda Item 9 – Promoting SPOC response information around the RCC





### **Promoting SPOC responses**

- Benefits of responding poster
- Checklist poster what to do
- Training programme for distress message response procedures

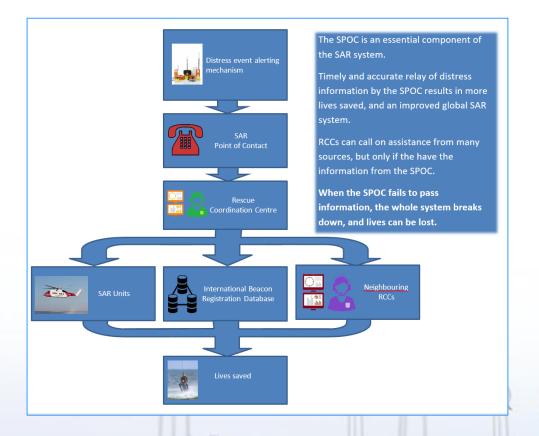


#### NO COUNTRY LEFT BEHIND



### **Promoting SPOC testing**

406MHz Beacon Alert Response Checklist and Considerations for RCCs



	406 MHz Beacon Alerts are always Distress Alerts!
Who	Name / number of caller passing the alert
VVIIO	Confirm alert method of receipt, e.g. EPIRP / ELT / PLB
What	<ul> <li>Confirm alert method of receipt, e.g. EPIRP / ELT / PLB</li> </ul>
	Aircraft / vessel details, e.g. description / call sign / type
Where	Position in Lat / Long
When	Time of initial activation and last alert
nitial Actio	on, Planning and Operations
	Always take Distress Phase action based on the alert position -
	even if the identity and / or nature of distress are unknown
	National beacons
	Identify beacon in national database
	Search using the unique Hex ID of the beacon first
	Foreign beacons or if no national beacon registry is maintained
	Decode MMSI at https://www.itu.int/mmsapp/ShipStation/list     FERRID about if this is and admitted as a first state of the second and the second as a first state of the second as a
	If EPRIB, check if this is coded with vessel's call sign     Attempt to identify beacon owner at https://www.406registration.com/
Who	Single Point of Contact (SPoC)
	SPoC for the country of registration should be able to provide identification
	Is the registered owner in possession of the beacon? Has it been given to
	someone else? Use beacon registration database for contact telephone
	numbers
	Emergency Point of Contact (EPoC)
	Be sensitive when dealing with the EPoC as this is often a close friend or
	relative. Keep the EPoC informed of SAR progress and where possible
	provide a single point of contact for them
When	Detection time
	Use first detection time for search planning     Satellite pass detection time is updated on each subsequent pass
	Beacon Type
	Is the alert EPIRB, PLB and ELT?
	Alert Type
	Detect Only (location is not known) - check LRIT, AIS and consider
	communications searches alongside normal avenues of investigation
	<ul> <li>Unresolved (two positions A and B are displayed, position of beacon</li> </ul>
	unknown) - if either position is within the national SRR, take immediate SAR
	action
	Resolved (position has been resolved to either A or B location) - take immediate SAR action
	Encoded (Unrefined ending in '00' or refined ending in other digits) - take
	immediate SAR action

	Situation
	How many people are onboard / at risk? Vessel / aircraft type may help to estimate number
	Positions Plot position and apply appropriate fix error or GPS error factor (from the information provided by MCC) as error radius  MEOSAR positions are shown on the SIT 915 message in the DOA field
Where	Doppler Position Accuracy (derived from the confidence factor):  1 > 50nm 2 0 - 50nm 3 0 - 20nm 4 0 - 5nm
	If confidence factor is not included on alert ask the MCC GNSS position Accuracy     up to 15nm
Comms	Take appropriate action and do not delay tasking of resources! Try to establish contact (if vessel) Broadcast MAYDAY Relay on all appropriate media
Actions	Undertake communication searches in parallel to distress SAR action SAR action must be based on beacon location - ask MCC for advice and guidance on beacon behaviour, signal information, next satellite pass, etc.     Act upon the data received and take immediate SAR actions     Instruct SRUs to monitor on 406MHz or 121.5MHz direction finding for homing signals (406MHz signal is likely to be stronger and more accurate), ask responding vessels / SRUs to monitor for AIS and / or Radar SART transmissions     Ask ATC / ARCC to ask high flying aircraft to monitor 121.5MHz and report any homing signals with aircraft position, route and height at that time     Check AIS for vessel and / or other vessels to respond in the vicinity and Fishing Vessel Monitoring System if maintained     Doppler positions – one position within national SRR:     Alort SRUs whilst obtaining further information and / or receiving further data from subsequent satellite passes and commence immediate readines:     Consider immediate action prior to receiving new data from next satellite pass     Resolved Doppler positions     Task SRUs / create search plan using appropriate error factors GNSS/GPS positions

o not terminate a 406 beacon incident unless:

 Confirmed that alert situation no longer exists nform MCC on the resolution or termination of the incident

· Persons at risk are rescued

Confirmed as false alert activation, confirming HEX ID from beacon itself





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Agenda Item 10 – Tracking the results of the Seminar







#### Success tracking

- MCCs record test conduct and results
  - Cospas-Sarsat track test results
    - JWG-SAR monitors results

• Expected outcome is an improvement in test success rate



