



An RAF Nimrod aircraft can visually search approximately 1800 square miles in 8 hours. (area bordered by —)

When a 'Man Overboard' situation occurs, if they are wearing a Distress Beacon, that same aircraft can search approximately 384,000 miles. (area bordered by —) The benefits are plain to see. If you find yourself overboard and lost at sea, you are far more likely to be found and with more speed by wearing a Personal Locator Beacon - PLB.

#### APPROX. RANGE DISTANCES

- ① 0.5 to 3 nautical miles from a ship to a man in the water depending on the height at which the receiver's antenna is located on the vessel and also the sea state.
- ② 7 to 15 nautical miles to a helicopter at 1,000ft.
- ③ 35 or more nautical miles to a fixed wing aircraft over 10,000ft, increasing with altitude.

#### There are two ways of improving the chances of survivor detection and location:

1. Make the person in the water more visible
2. Improve the ability of the Searchers to 'see' the person in the water.

The Sea Marshall® MOB Emergency Response System gives a fully automatic solution to this problem avoiding false alarms through its ingenious patented design.

In the event of any kind of Man Over Board incident it is crucial that the missing person is firstly detected as missing and then located and recovered from the water in the fastest time possible.

"The physiological effects of immersion are often overlooked. In cold water, hypothermia develops very quickly with the majority of those entering cold water without immersion suits dying within one hour.

On initial immersion - the first two or three minutes, the danger arises from the initial 'cold shock' response to cold water. Survivors will experience a sudden fall in skin temperature, decreased breath holding ability, muscle spasms and many hyperventilate. During this time it is unlikely that any person will be capable of any operation requiring a high degree of manual dexterity, such as operating a distress transponder of any type."

The first half mile is the crucial period in any MOB situation, min. response time is critical!

CE 01911 CONFORMS TO NEW EU R&TTE DIRECTIVE  
FCC ID NWG - SMRS8

**A PERSONAL PLB TRANSMITTING ON 121.5MHz, THE WORLDWIDE EMERGENCY DISTRESS HOMING FREQUENCY, CAN BE PINPOINTED BY ANY AIRCRAFT OR SEA GOING VESSEL EQUIPPED WITH DIRECTION FINDING EQUIPMENT.**

"So far I have had a 100% success rate in testing these Personal Locator Beacons. I am convinced that a helicopter could search 200 square miles in 20 minutes or less, for a diver wearing a PLB. For a lost diver not wearing a PLB, this search would take hours!"

COASTGUARD