

## How the end-to-end satellite-based SAR Ecosystem works



- 1 A **beacon** distress signal is sent from aircraft, marine vessel or individual
- 2 Beacon positioning/location data is relayed by satellite communications to satellite ground stations or Local User Terminals (LUTs)
- 3 The **Local User Terminal** computes the location before sending alerts to the appropriate Mission Control Centers (MCC)
- 4 The **Mission Control Center** collects, stores and sorts the data received from LUTs and other MCCs and distributes alerts to associated Rescue Coordination Centers (RCC)
- 5 The **Rescue Coordination Center** notifies and coordinates emergency response/rescue teams

\* Items in red are supplied by McMurdo Group



Trusted for **Life**™

McMurdo Group

The industry's first end-to-end life-saving and tracking solutions provider

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Distress Beacons • Satellite Connectivity Infrastructure  
Monitoring/Positioning Software • Emergency Response Management



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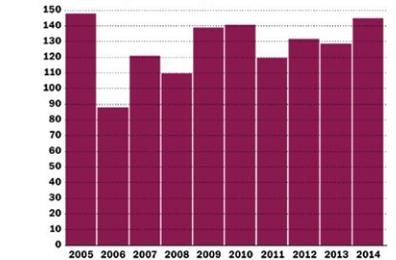
10 reasons why McMurdo's Ranger PLB is *the* lifesaving tool for outdoor enthusiasts



## 10 reasons why McMurdo's Ranger PLB is the lifesaving tool for outdoor enthusiasts

- 1 McMurdo's Ranger PLB works on 406Mhz, which is a dedicated global search and rescue frequency used by a growing network of satellites established by COSPAS SARSAT. No other communication traffic operates on this channel range.
- 2 COSPAS SARSAT is an internationally government funded not for profit organisation established to coordinate search and rescue operations on the dedicated 406Mhz frequency.
- 3 Ranger PLB's design includes ruggedized body, guaranteed 24hr battery activation time and end user operational test function to provide complete peace of mind.
- 4 Ranger PLB's 406-megahertz signal is stronger than the Iridium's lower powered 1610 MHz, which means that overhead obstructions like cloud cover and tree top canopies are less likely to block the transmission. Iridium is also a commercial based system that shares frequency with standard communications and emergency communications.
- 5 406Mhz is a proven Search and Rescue frequency linked to 41,000 lives saved since inception and the foundation of marine rescues since 1982
- 6 McMurdo's Ranger PLB are not reliant on telephone signals and unlike mobile phones, offer global coverage, a life-saving feature in rugged terrain.
- 7 PLB's are significantly cheaper than satellite phones, don't require monthly subscriptions and remove the reliance on private satellite networks and dispatch centers.
- 8 Ranger PLB's contain a SOS Strobe light to aid low light location and deploy multiple frequencies that combine a global 406Mhz alert with 121.5 MHz localised homing signal as a backup to the GPS coordinates.
- 9 406 Mhz is the direct line to Search and Rescue professionals, working with both LEOSAR and GEOSAR satellites therefore reducing the time needed to acquire a position fix on your location.
- 10 Only McMurdo Ranger offers a Gold Standard PLB based on our unique contribution to the search and rescue network by developing the beacons, the land based infrastructure and the rescue coordination centres that Support COSPAS SARSAT.

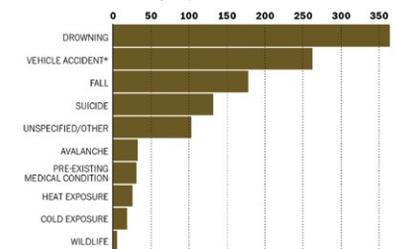
Fatalities at national parks, excluding suicides, 2005-2014



WAFO.ST WONKBLOG

Source: National Park Service

Causes of death at national parks, 2003-2007



WAFO.ST WONKBLOG

Source: National Park Service

\* Includes cars, buses, boats, bikes, airplanes and other mechanical modes of transportation

