



IRIDIUM MARITIME

NAVTECH CONFERENCE

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THE IRIDIUM® NETWORK: RELIABILITY ABOVE ALL®

66 Active Satellites

- 6 orbital planes with 11 satellites each
- Plus 9 in-orbit spares
- Plus 6 ground spares

Low-Earth Orbit (LEO)

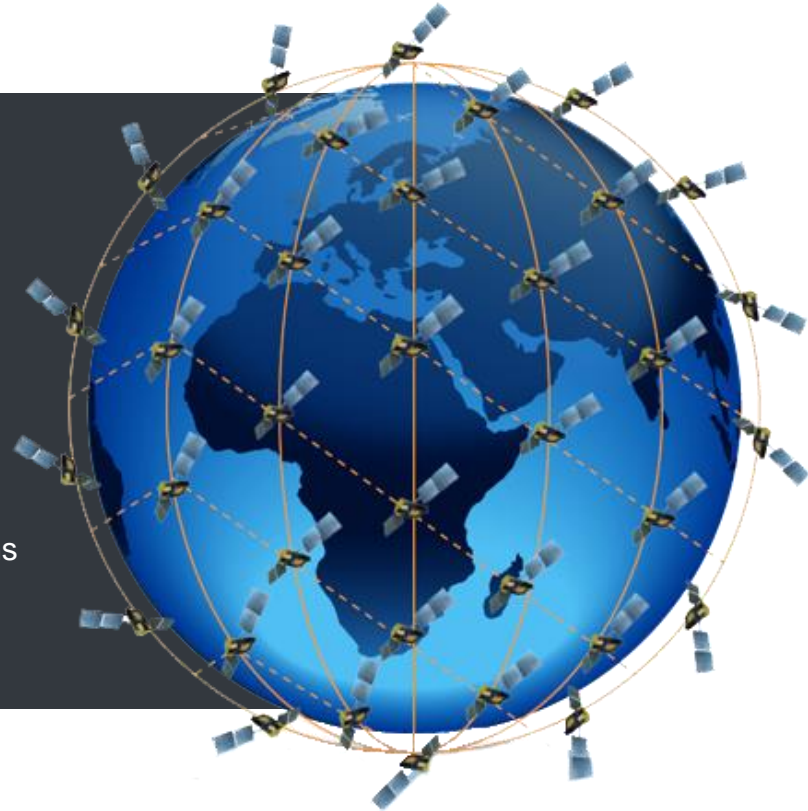
- Enables reliable communications anywhere in the world

L-band System

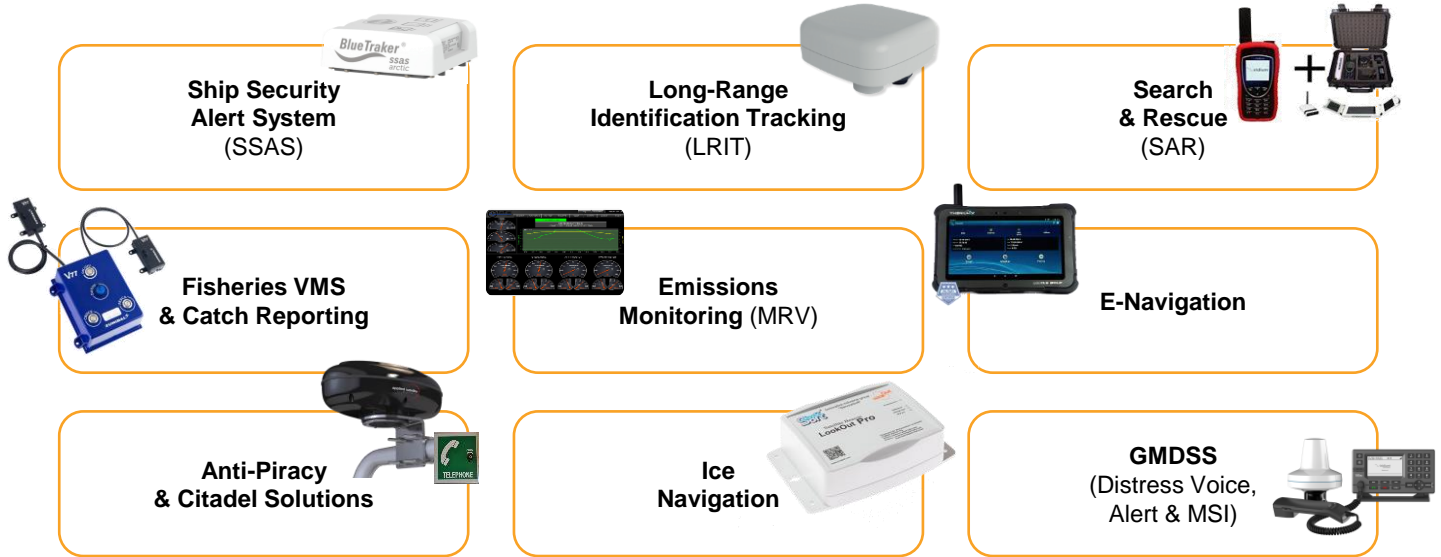
- Allows for transmissions even in adverse weather conditions

Satellite Crosslinks

- Creates low-latency, resilient, high-quality connections



COMPREHENSIVE SAFETY & SECURITY SOLUTIONS



Over the past 15 years, Iridium and its Value Added Manufacturers built an impressive track record providing safety and security solutions to mariners globally

PERSONAL SAFETY Pairing devices/standalone SOS



Iridium GO!®
Turns Your Smartphone into a
Satellite Phone

iridium®
connected

Pair your personal smartphone or tablet for:

- Voice Calling
- SMS Text Messaging
- Emergency / SOS Alerting
- GPS & Tracking
- GEOS SOS Response
- Range of Compatible Apps





iridium®

Count on ZOLEO for connectivity and safety

Safety Features

-  **Two-way* progressive SOS** alerting with step-by-step updates throughout the incident included from our 24/7 emergency response coordination partner.
-  **Check-in with one press**, including location to within 8 ft.
-  **Share GPS location** including breadcrumb trail displayed in a map.
-  **Global coverage** via the Iridium satellite network; no coverage gaps.

Device Tech Specs

-  **Water-, dust- and shock-resistant** design: IP68 and MIL-STD 810G.
-  **200+ hours of battery life.**




iridium
connected

ZOLEO Features

-  **Send and receive SMS/text, email and app-to-app messages** over satellite, cellular or Wi-Fi using the lowest-cost network available.
-  Supports **950+ character messages** (app-to-app).
-  Includes a **dedicated ZOLEO email and SMS number** so contacts can easily reach you.
-  **On-demand hyper-local weather forecasts.**

Easy-to-use Features

-  **Easy to use** right out-of-the-box, access your contacts and start messaging.
-  **Easy device sharing** between users eliminates the need for reassignments.

*Two-way SOS messaging via the ZOLEO app.

The most affordable, easiest to deploy remote messaging solution available

10,000 GARMIN INREACH® SOS INCIDENTS



inReach® Mini 2

Lightweight and Compact Satellite Communicator



OVERVIEW *BIVY STICK*



OVERVIEW

GLOBAL *+rescue*

Global Rescue, the world's leading membership organization providing integrated medical, security, travel risk and crisis response services to our travelers worldwide.

Benefits Include:

- **Medical Consultation** services 24/7/365 with critical care paramedics, nurses and physicians, and an exclusive relationship with the Johns Hopkins Emergency Medicine Division of Special Operations
- **Field Rescue** from the point of illness or injury for any serious medical emergency
- **Evacuation** back to the member's home hospital of choice
- **Security Extraction** from natural disasters, terror attacks and civil unrest
- **Travel Intelligence** and event monitoring from our team of in-house analysts
- **GPS Tracking & Communication** through our mobile app



MAY 2018

IMO RECOGNITION!

Making the **Global** Maritime Distress
Safety System **truly Global**

IRIDIUM GMDSS: LARS THRANE 3100-S SYSTEM

All GMDSS services in one small form factor terminal:

- Distress Alert
- Maritime Safety Information (MSI)
- Safety Voice

Multi-service capability: in addition to GMDSS, can also be used for:

- SSAS (Ship Security Alert System) and
- LRIT (Long Range Identification Tracking)

Truly global coverage





KEY SATELLITE GMDSS FUNCTIONS

Distress Alert

ID, Status, &
Position
Sent to RCC

Distress Voice

Direct call
at highest priority
to RCC

Maritime Safety Information (MSI)

Navigational &
Meteorological
information
broadcast

Iridium SafetyCastSM

Other Features

Distress Alert Relay – Based on Area
Shore to Ship Distress calling – Two-Stage Calling
Medical Assistance
Medical Advice – Charged



Iridium Edge® Solar for the Connected Boat

Features

- 📍 GPS Reporting
- 📍 Location & Route History
- 📶 Position, Speed, Direction Reporting
- 📱 Asset Tracking
- 📍 Geofencing
- 🔧 Engine Monitoring
- 🔧 Remote Control (Light, A/C)
- 🔍 Security Monitoring
- 🆘 SOS
- 📧 Text Messaging via SBD®

Alerts

- 🔋 Low Battery
- 🌊 High Water
- 🚰 Bilge Status
- 🌡️ Temperature



Satellite



Iridium Edge Solar*





THE FUTURE HAS STARTED...DATA/USV INNOVATION

Iridium Certus® for **Unmanned Surface Vehicle (USV)**

Antenna

Camera

Terminal

Satellite

Mission Operations

- Environmental & Sea Monitoring
- Bi-directional Sensor Reporting
- Performance Monitoring

Remote Diagnostics

USV Management

- Command & Control
- Video Camera Feeds*
- Remote Troubleshooting
- USV System Monitoring
- Battery & Propulsion Monitoring

Government & Military Operations

- Surveillance
- Search & Rescue

UNMANNED

MAYFLOWER 400

IBM
Technology Partner



SAILDRONE: PATROLLING THE OCEANS INTELLIGENTLY WITH USVS

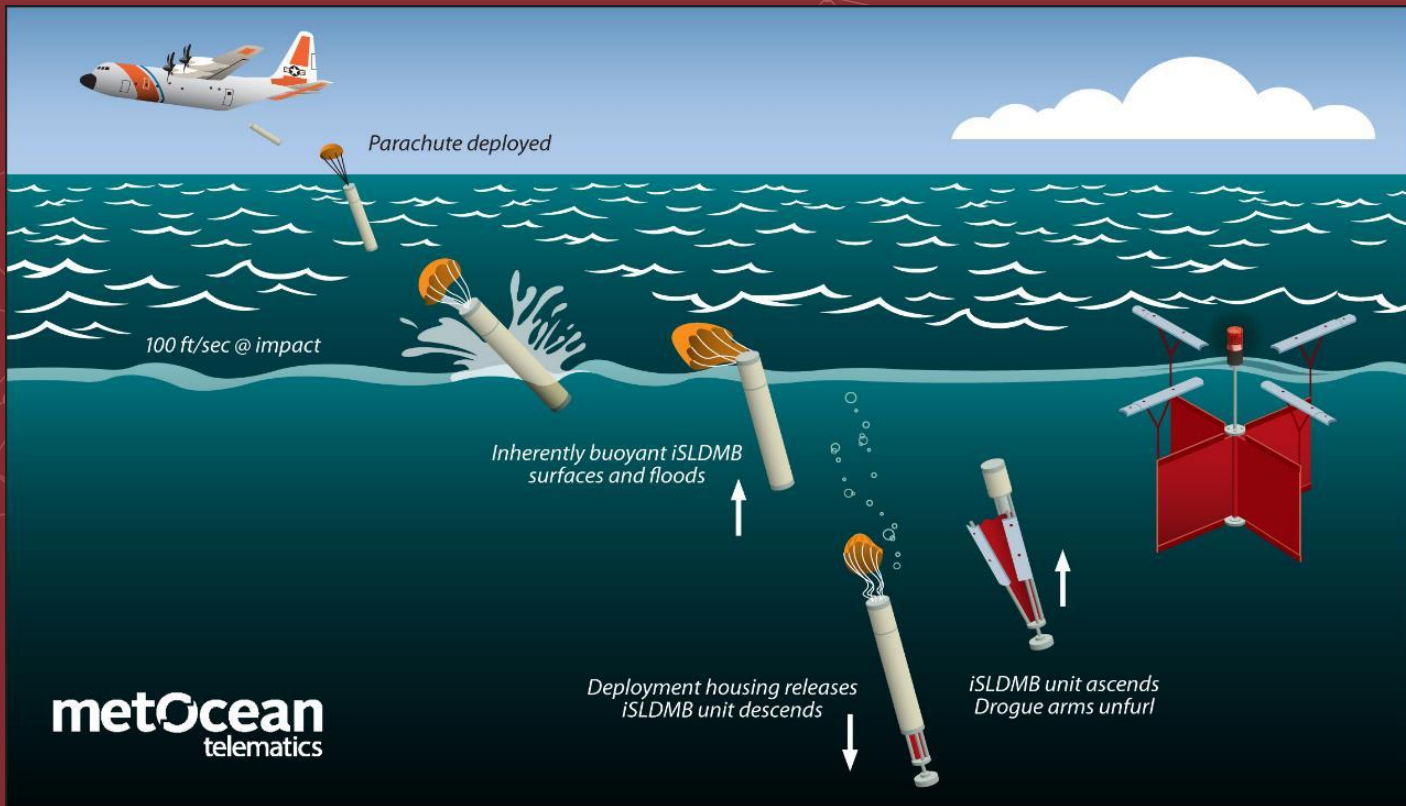
Uncrewed Surface Vehicles: cost-effectiveness and ability to operate autonomously for months or longer. Saildrone, and its fleet of Iridium Connected USVs captured global attention with dramatic video footage from inside a hurricane. Along with that footage, the Iridium network transmitted wind speed, direction, temperature and other critical information



Designed and tested to meet the stringent performance requirements of coast guards for Search and Rescue (SAR) operations in the open ocean.

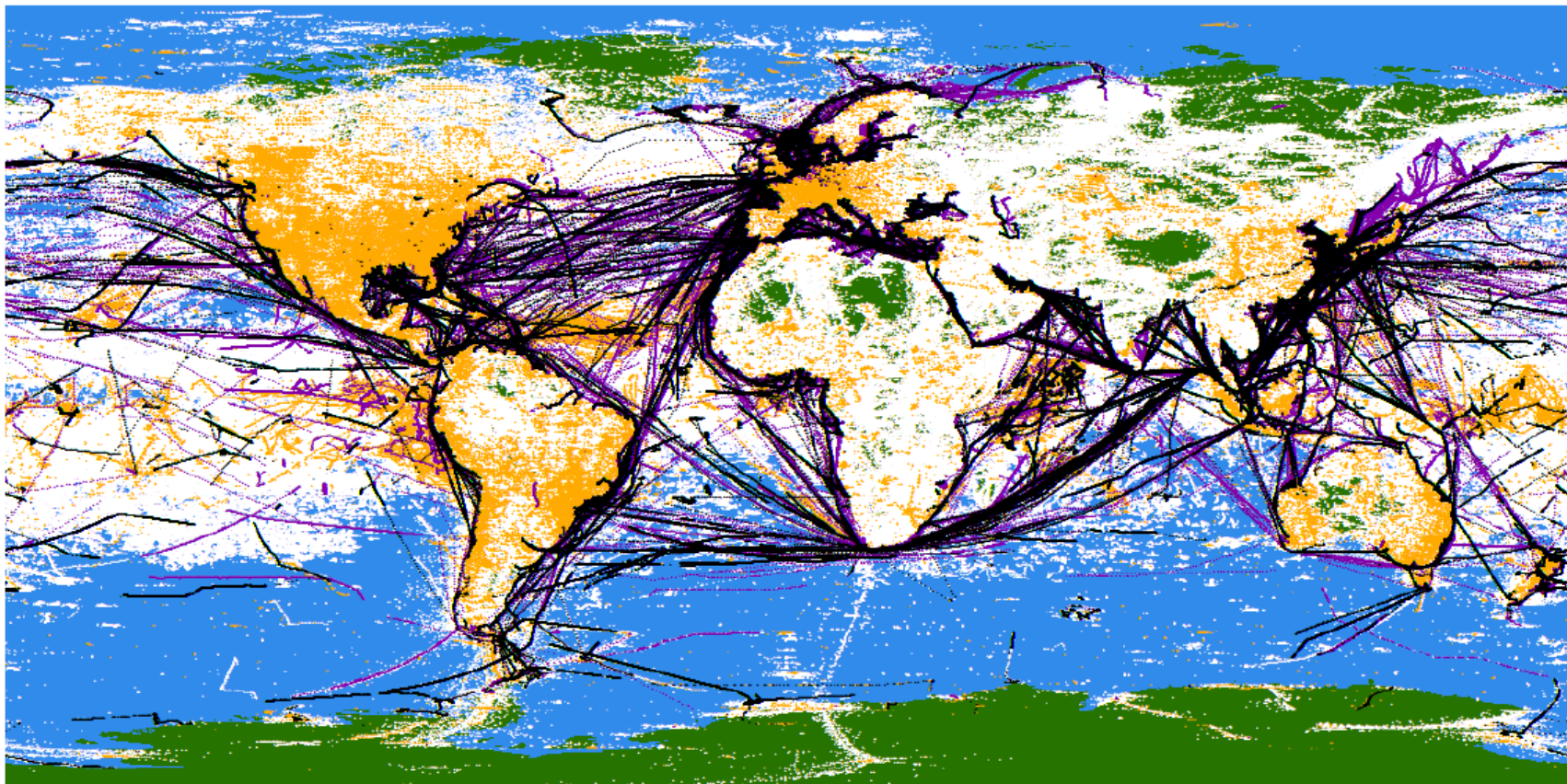
- Equipped with an Iridium® bi-directional satellite transmitter, sea surface temperature sensor, and a GPS receiver
- Air certified but also deployed from ships, fixed wing and rotary wing aircraft
- Communicates critical data within real-time to the end-user
- The iSLDMB design is based on the proven CODE/Davis style oceanographic surface drifters
- Utilized by global navies, coast guards, and the offshore oil and gas industry
- Expendable drifter
- Operating life up to 15 days
- True predictor of person-in-water (PIW)
- Minimal training required to deploy into active operation
- Operating life meets and exceeds SAR mission requirements







Network Leadership Fuels Global Usage


Plot of Iridium Service Usage (Origination Points): January 23, 2022 – January 29, 2022



 Iridium®
Voice Call

 SBD® Data
Transmission

 Iridium OpenPort® High-
Speed Data Traffic

 Iridium Certus®
Session



THANK YOU