



# BRINGING SATELLITE DOWN TO EARTH

IRIDIUM SATELLITE CASE STUDIES

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# IRIDIUM CERTUS® ENABLES REMOTE MONITORING OF SUBSEA SYSTEMS



*Iridium and Applied Satellite Technology (AST) have partnered to enable a critical, end-to-end satellite communications solution to one of the largest oil and gas companies in the world. This solution enables remote monitoring and control of subsea systems aboard the floating production storage and offloading (FPSO) vessel without a traditional, expensive wired connection.*

**Iridium Connected® by:**  
Iridium Certus™ 9810  
Thales VesseLINK

**Iridium Service:**  
Iridium Certus®

**Markets:**  
Oil & Gas, Maritime

**Partner:**  
Applied Satellite Technology (AST)



# IRIDIUM CERTUS® AIDS COLLECTION OF VITAL BIOLOGICAL DATA



*Iridium Certus® powers the Thales MissionLINK™ terminal for unparalleled 24/7 connectivity in the remote Norwegian landscape. IEC Telecom and The IK Foundation chose Iridium® for its global, reliable, and robust communications capabilities to support the gathering of critical, raw scientific data at a far-away, unmanned Field Station in Svalbard.*

**Iridium Connected® by:**  
Iridium Certus™ 9810

**Iridium Service:**  
Iridium Certus®

**Markets:**  
Land Mobile

**Partners:**  
IEC Telecom  
Thales



# IRIDIUM® PUSH-TO-TALK HELPS PROTECT COMMUNITIES AND WILDLIFE IN KENYA



*Iridium PTT has created a secure, wide-reaching network, with instant communication for the scouts in the National Reserve in Kenya, catalyzing quick and timely decisions allowing coexistence between people, livestock and wild animals.*

**Iridium Connected® by:**  
Iridium Core 9523

**Enabling Product:**  
Iridium Extreme® PTT

**Markets:**  
Land Mobile, Government,  
Safety, Wildlife Protection

**Partners:**  
SORALO  
Kinetic Six Ltd



# IRIDIUM GO!<sup>®</sup> SOS ENABLES PROACTIVE BEHAVIOR



*Iridium<sup>®</sup> technology and GEOS International Emergency Response Coordination Center (IERCC) work together during emergency situations. When an SOS alerts is sent from an Iridium product, the location coordinates are sent to IERCC and used for search and rescue matters.*

**Enabling Product:**

Iridium GO!<sup>®</sup>

**Iridium Service:**

Short Burst Data<sup>®</sup> (SBD<sup>®</sup>)

**Markets:**

Maritime, Emergency Rescue

**Partner:**

GEOS

# WORLD TRAVELER AVOIDS STORMS BY UTILIZING THE POWER OF IRIDIUM® AND OCENS



Nick Authier is a sailor who travels around the world. For him it is not a convenience but a requirement to stay connected. Nick needed a solution that would provide reliable weather and ocean information for his navigation and trip planning from Florida to California, but also a personal communicator to help him stay connected with family and friends.

**Enabling Product:**  
Iridium GO!®

**Iridium Service:**  
Short Burst Data® (SBD®)

**Markets:**  
Maritime, Safety

**Partners:**  
OCENS

# IRIDIUM HELPS KEEP THE POLES CONNECTED



ACE was a three-month voyage through the Southern Ocean, circling Antarctica. ACE's mission was to enhance international relations and collaboration between countries, as well as motivate the next generation of explorers and scientists in polar research. The expedition conducted 22 different research projects in climatology, glaciology, oceanography, biology, and biochemistry.

**Enabling Product:**  
Iridium Pilot<sup>®</sup>, Iridium GO!<sup>®</sup>

**Iridium Service:**  
Short Burst Data<sup>®</sup> (SBD<sup>®</sup>)

**Markets:**  
Land, Maritime

**Partners:**  
Swiss Polar Institute (SPI)



# IRIDIUM ENABLES YOUNGEST EXPLORER TO SET RECORDS IN THE SOUTH POLE



Parker Liataud planned the Willis Resilience expedition as a scientific experiment to collect invaluable data from the South Pole to explore the impact of climate change. The challenge was to heighten awareness of the expedition and connect with media, researchers and corporations to follow his mission and take an action to address climate change.

**Enabling Product:**  
Iridium Extreme<sup>®</sup>, Iridium Pilot<sup>®</sup>

**Iridium Service:**  
Short Burst Data<sup>®</sup> (SBD<sup>®</sup>)

**Markets:**  
Land, Maritime, Research

**Partners:**  
Captive Minds



# IRIDIUM ENABLES DOCTOR TO SAVE LIVES IN ANTARCTICA



*Dr. Alexander Kumar, is a 28-year-old British medical doctor currently living, working and conducting research for the European Space Agency at Concordia Station in Antarctica. Shortly after arriving, Dr. Kumar was asked to assume the position of onsite doctor. When faced with an emergency, Dr. Kumar quickly learned just how vital his Iridium phone would be in his new position.*

**Enabling Product:**  
(?) Iridium Extreme®

**Iridium Service:**  
Short Burst Data® (SBD®)

**Markets:**  
Land, Research

# IRIDIUM 9555 HELPS SAILOR SURVIVE A CAPSIZED YACHT



Veteran sailor Etienne Giroire embarked on The Route du Rhum, a transatlantic singlehanded yacht race between Saint Malo, Brittany, France and Pointe-à-Pitre, Guadeloupe, France, which takes place every four years in November. Giroire capsized his multihull trimaran on day 14 of the race, requiring quick decisions to ensure his return to safety with the help of the 9555 satellite phone that he had brought with him

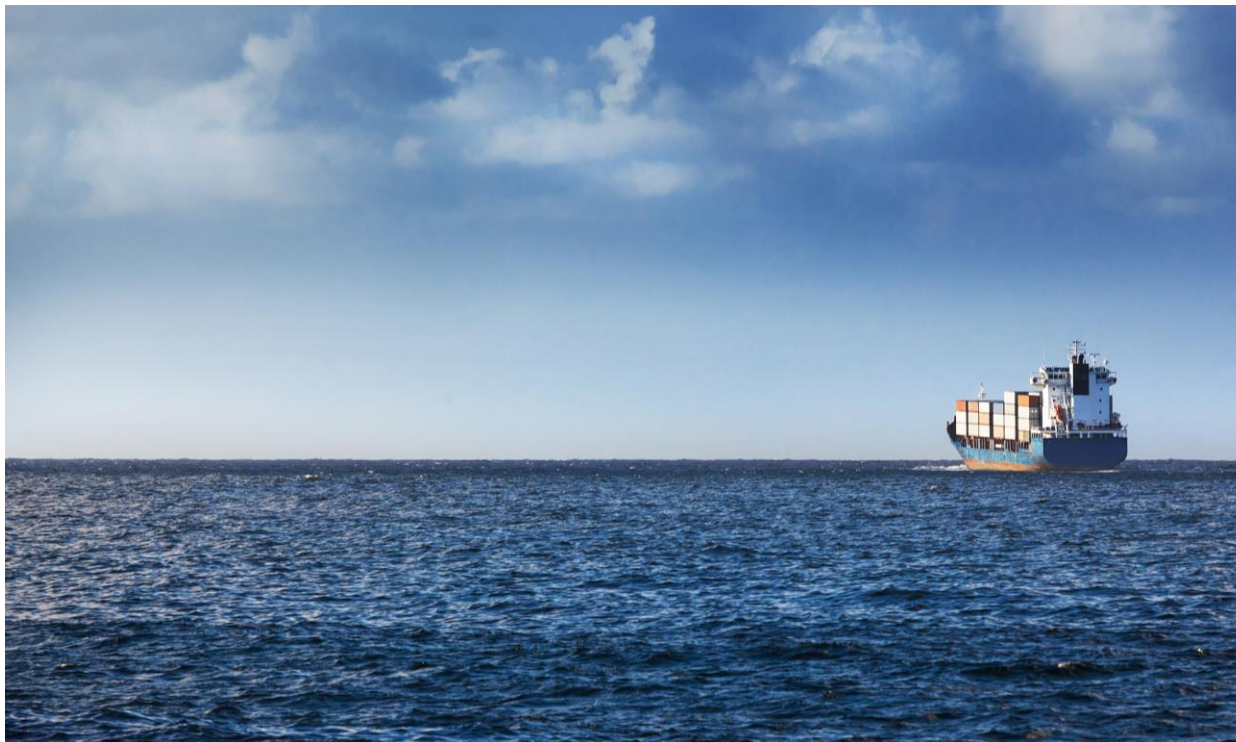
**Enabling Product:**  
Iridium 9555

**Iridium Service:**  
Short Burst Data® (SBD®)

**Markets:**  
Maritime, Safety, Emergency Response



# IRIDIUM CONNECTED® PROGRAM HELPS PROTECT WHALE POPULATIONS



An estimated 3,000-5,000 sperm and fin whales live in Pelagos Sanctuary for Marine Mammals, a conservation area in the northwestern Mediterranean Sea. This region also has a very high density of shipping traffic, including high-speed ferries, which pose a danger to whales on or near the surface of the ocean. Whale collisions can injure or kill the animals and also cause significant damage to ships, their passengers and crew.

**Enabling Product:**

Iridium 9555

**Iridium Service:**

Short Burst Data® (SBD®)

**Markets:**

Maritime, Environmental / Climate

**Partners:**

Chrisar Software Technologies (Chrisar),  
Applied Satellite Engineering (ASE)



# IRIDIUM 9505A ENABLES ANTARCTICA RESCUE



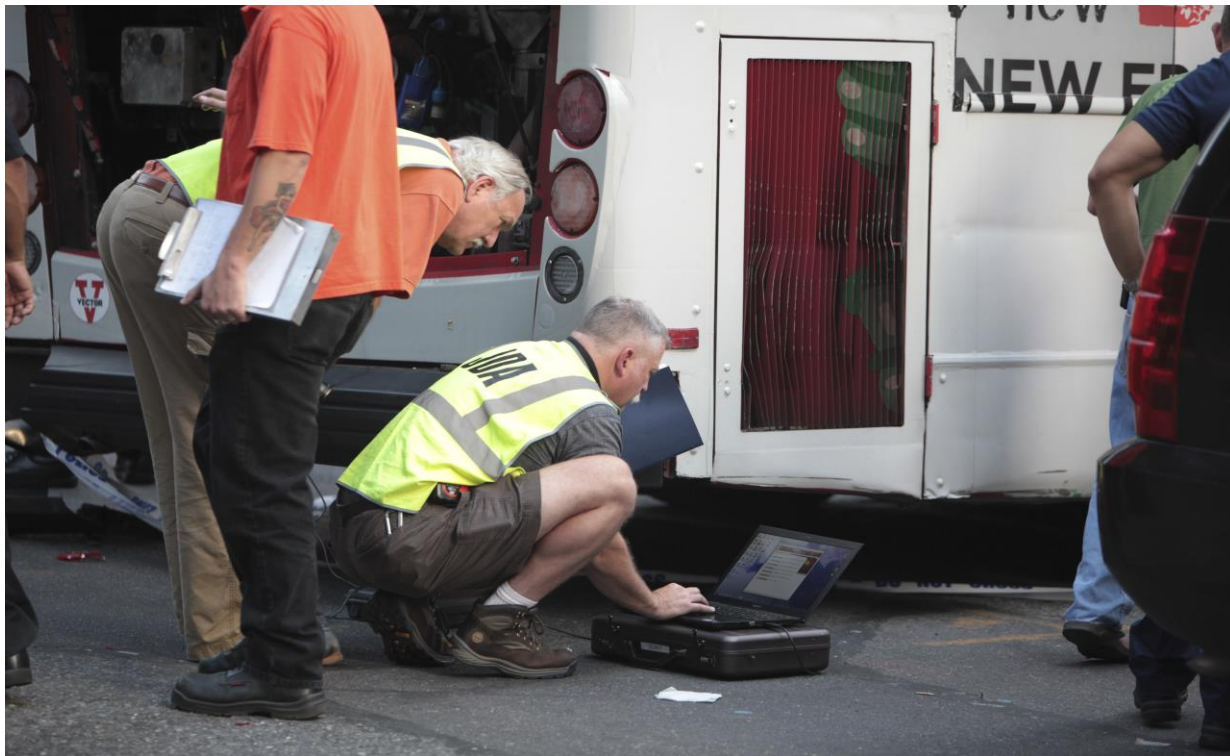
*Meagan McGrath is a Canadian Air Force Major and experienced mountaineer. In December 2009, she departed on a journey to become the first Canadian to solo ski from Hercules Inlet in Antarctica to the South Pole, equipped with an Iridium 9505A satellite phone. The terrain was treacherous, and McGrath lost her footing and fell into a crevasse. She was able to be rescued as she had a connection to the world with her Iridium 9505A satellite phone.*

**Enabling Product:**  
Iridium 9505A

**Iridium Service:**  
Short Burst Data® (SBD®)

**Markets:**  
Land, Emergency Response

# OPENING COMMUNICATIONS LIFELINES FOR RAPID RESPONSE TEAMS



*GlobalMedic is a non-profit organization of paramedics, police officers, and firefighters created to strengthen the delivery of emergency medical services in the Third World. GlobalMedic required a critical communications infrastructure in order to keep members of the team connected to home base, when onsite of a disaster. Reliable communications are paramount for GlobalMedic workers not only to report back to base on what conditions they are witnessing onsite, but also to report on what supplies are necessary.*

**Enabling Product:**  
Iridium AccessPoint,  
Iridium 9555, Iridium 9505A

**Iridium Service:**  
Short Burst Data® (SBD®)

**Markets:**  
Land Mobile, Non-profit, Emergency  
Response, Safety



# IRIDIUM PROVIDES CRITICAL COMMUNICATIONS EQUIPMENT TO MEDSTAR



*MedStar Health, the largest healthcare system in the Baltimore-Washington, D.C. area, determined a need for new communications tools in two critical areas. First, MedStar Health wanted to be able to communicate in emergency situations if landlines were not available. Secondly, it wanted to be able to communicate and track its helicopter fleet as it provides emergency services to patients. Recognizing the unique quality of reliability and coverage that satellite communications provide, MedStar Health turned to Iridium for its solution.*

**Enabling Product:**  
Iridium 9505A

**Iridium Service:**  
Short Burst Data® (SBD®)

**Markets:**  
Land Mobile, Healthcare, Safety



# IRIDIUM CONNECTED® DEVICES ENABLE SOLUTIONS FOR TRANSATLANTIC CROSSING



*The ARC Rally has become the world's largest ocean-spanning sailing event, with over 200 yachts from around the globe participating each year. The crew of the catamaran Rafale saw ARC 2011 as an opportunity to implement and optimize a complete navigation solution that could reliably access and download GRIB data throughout their 14-day Atlantic crossing. To access the weather data, they used Weather4D PRO, an app developed by crewmember Olivier Bouyssou. Enabled by Iridium AxcessPoint and connected to an Iridium satellite phone, the team was able to access and view weather data on their iPhones and laptops.*

#### **Enabling Product:**

Iridium AxcessPoint, Iridium 9505A,  
Iridium 9555

#### **Iridium Service:**

Short Burst Data® (SBD®)

#### **Markets:**

Maritime, Data

#### **Partners:**

ARC Rally