



STATUS OF THE COSPAS-SARSAT PROGRAMME

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Cospas-Sarsat Secretariat

Tenth Meeting of the
ICAO Asia/Pacific Search and Rescue Working Group
(APSAR/WG/10) (27 - 30 May 2025)



System Operation

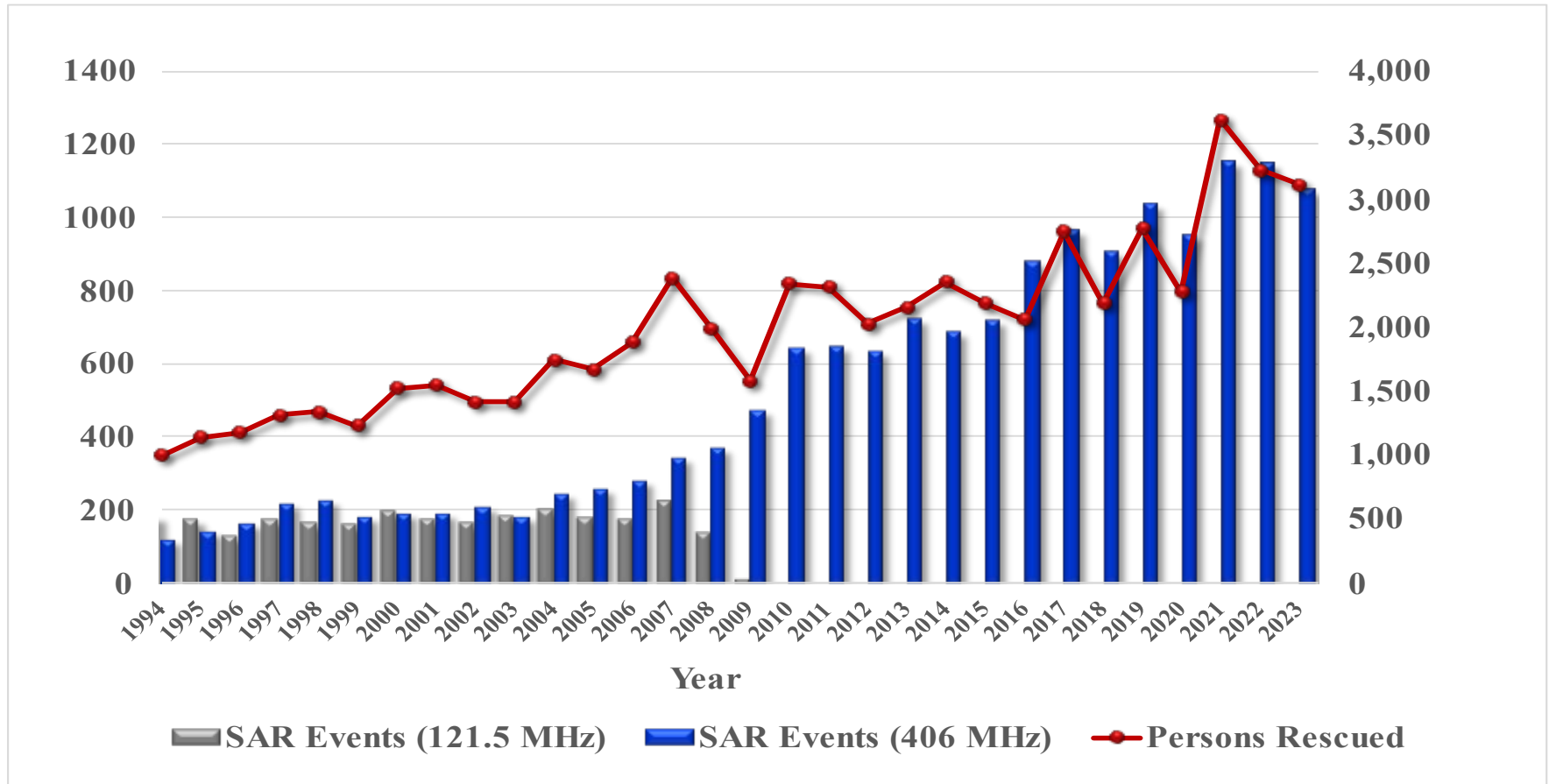


Figure 1: SAR Events with the Assistance of Cospas-Sarsat Data (Jan. 1994 - Dec. 2023)

System Operation

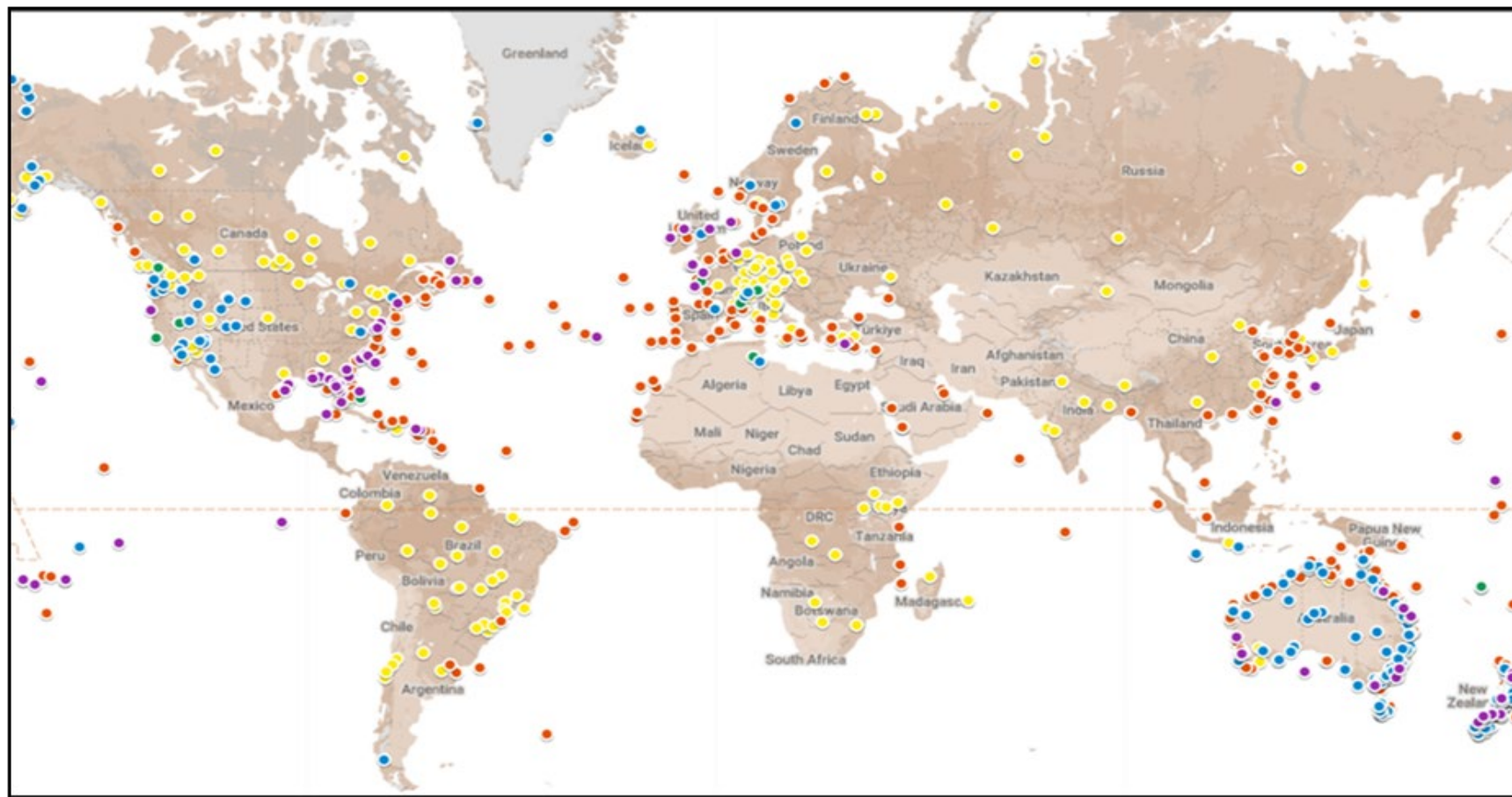
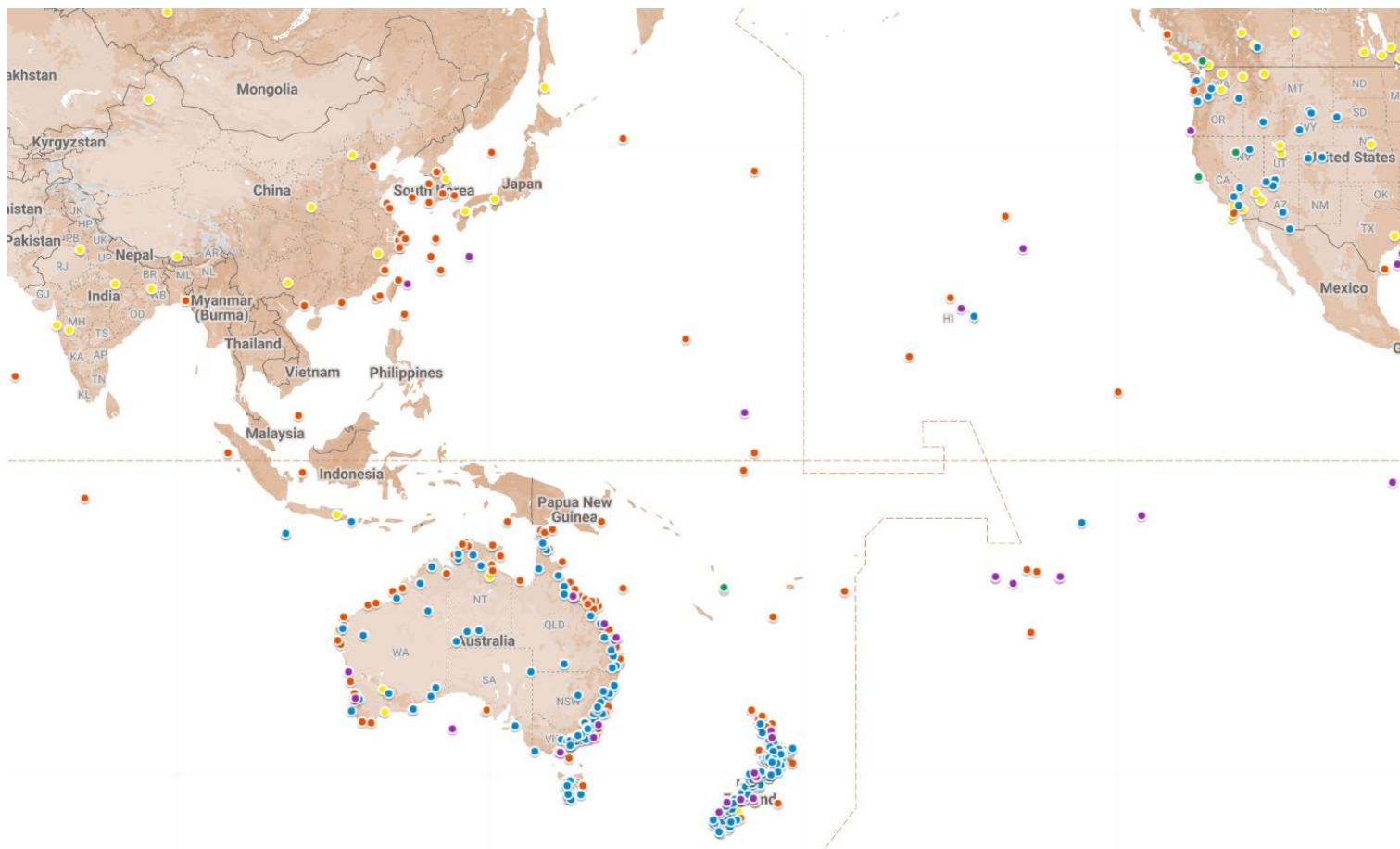


Figure 2: 2023 Geographic Distribution of SAR Events

System Operation



**Figure 2: 2023 Geographic Distribution of SAR Events
Asia-Pacific**

406 MHz Beacons

3,170,000 beacons deployed
(75% being GNSS capable) (2023)



406 MHz Beacons



WELCOME TO
THE
INTERNATIONAL
406MHZ BEACON
REGISTRATION
DATABASE

Registering a beacon for
the first time?

Sign up for an account



To register a beacon in the IBRD, you
must first create an IBRD profile
account.

- 167 Administrations
- 112,500+ beacons

Allows:

All beacon types, including

- ELT(DT)s,
- RLS beacons,
- SGBs

SPOC Communication

	2019	2020	2021	2022	2023	2024
Number of SPOCs tested by MCCs	161	166	171	171	161	<i>74</i>
Non-responsive SPOCs (no response to tests)	8.70%	7.23%	8.19%	5.26%	4.97%	<i>8</i>
Rarely responsive SPOCs (less than 20% successful tests)	5.59%	6.02%	3.51%	5.85%	4.97%	<i>0</i>
SPOCs with low success ratio (between 20 and 50% successful tests)	9.94%	7.23%	9.94%	8.19%	11.18%	<i>10</i>
Insufficiently responsive SPOCs	24.23%	20.48%	21.64%	19.30%	21.12%	<i>18</i>

SPOC Communication



Figure 3: Map of Non-Responsive and Poorly Responsive SPOCs (2023)



MCC-SPOC Agreements

MCC-SPOC Agreements in Indian Ocean and Asian-Pacific Areas

- French MCC – France, MRCC La Réunion
- French MCC – France, JRCC Tahiti
- Indian MCC – Maldives
- Indian MCC – Nepal (CAA)
- Italian MCC – Somalia
- Italian MCC – Sudan (CAA)
- Saudi Arabian MCC - Bahrain
- South African MCC – Mozambique
- Vietnam MCC – Cambodia
- Vietnam MCC – Laos

System Enhancements

- **MEOSAR**
Initial
Operational
Capability
Apr. 2023
- **Full**
Operational
Capability
Exp. 2025



System Enhancements

Full
Operational
Capability
for

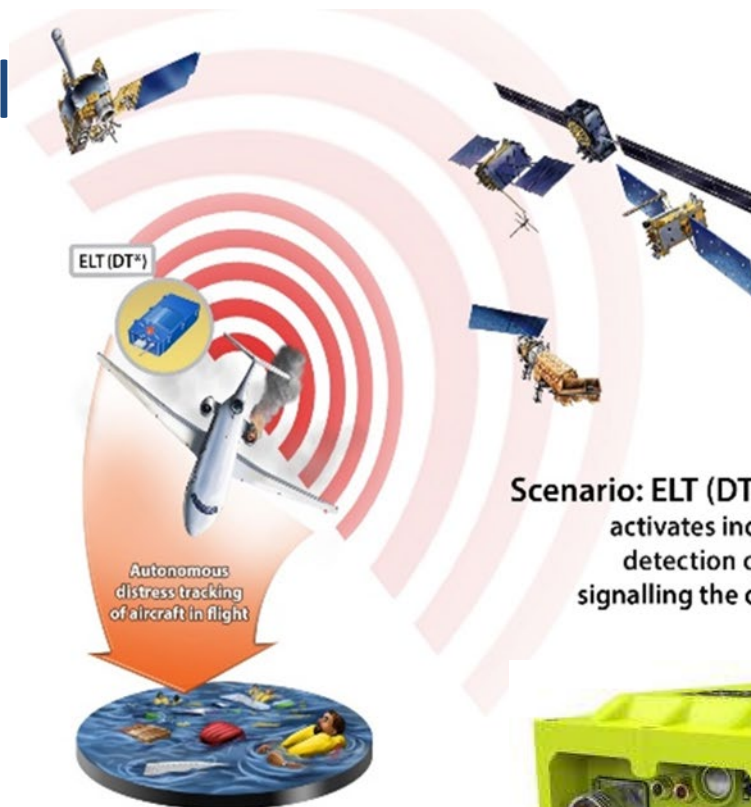
ELT(DT)s

FGB

1 Jan 2023

SGB

1 Jan 2024



Scenario: ELT (DT) "Distress Tracking" 406 Beacon
activates independently upon autonomous
detection of in-flight aircraft emergency,
signalling the distress to Cospas-Sarsat satellites



**Loss of
121.5
MHz**

System Enhancement

SGBs

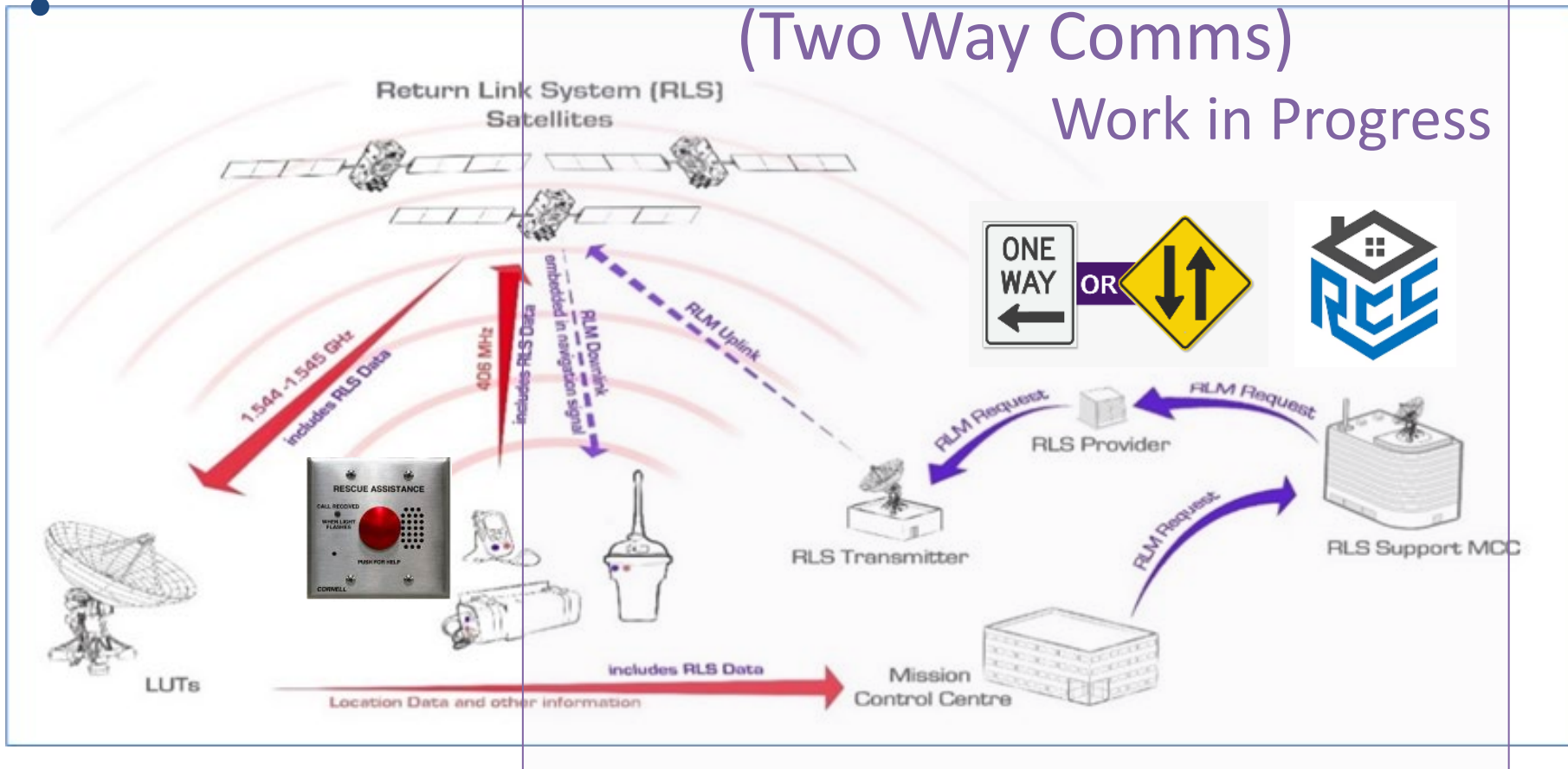
- more info in MSGs
- Greater accuracy
- Improved Transmission Rate
- Expected from 2025



System Enhancements

Return Link Service (Two Way Comms)

Work in Progress



Training Materials

- RCC
Manual
G.007
- Videos



<https://www.cospas-sarsat.int/en/search-and-rescue/programme-videos-en>

<https://moodle.406.org/>

Questions ?



The screenshot shows the COSPAS-SARSAT website. The header includes the logo, navigation links for home, French, and Russian, a Facebook icon, and a button for professionals. A menu bar contains links for Beacon Ownership, System Overview, Media Gallery, and About Us. The main banner features a satellite in orbit with the text 'COSPAS-SARSAT' and 'SEARCH AND RESCUE SATELLITES LISTEN WORLDWIDE FOR DISTRESS CALLS'. A right sidebar highlights the 'Register Your Beacon' service with a description and a registration button. Below this is a 'QUICK LINKS' section with a list of resources.

COSPAS-SARSAT.INT
INTERNATIONAL SATELLITE SYSTEM FOR SEARCH AND RESCUE
406TM DISTRESS ALERTING SERVICE

COSPAS-SARSAT

Home | Français | Русский

f COSPAS-SARSAT PROFESSIONALS ▶

BEACON OWNERSHIP ▼ SYSTEM OVERVIEW ▼ MEDIA GALLERY ▼ ABOUT US ▼

COSPAS-SARSAT

SEARCH AND RESCUE SATELLITES
LISTEN **WORLDWIDE** FOR DISTRESS CALLS

Register Your Beacon

Ensure that Search and Rescue Authorities in an Emergency Can Retrieve Crucial Information About You, Your Aircraft or Vessel, and Your Emergency Contacts.

REGISTER YOUR BEACON

QUICK LINKS

- ▶ Videos About Us
- ▶ Rescue Stories
- ▶ Beacon Ownership
- ▶ Beacon FAQ
- ▶ Testing Your Beacon
- ▶ Inadvertent Alerts
- ▶ Information Bulletin