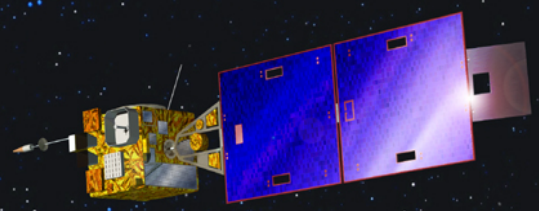
UN/USA Training Course on
Satellite Aided Search and Rescue

Miami Beach, Florida

19-23 January 2009



Beacon Registration in the IBRD

Cheryl Bertoia
Cospas-Sarsat Secretariat
Montreal

Source: CNES – D. Ducros

INTERNATIONAL 406 MHz BEACON REGISTRATION DATABASE

- Beacon registration essential to SAR operation efficiency
- Beacon registration is the responsibility of States
- Too many unregistered 406 MHz beacons
- Cospas-Sarsat implemented an international registration database to assist States in January 2006
- International database is Internet based and allows:
  - States to use database and control entries if they wish
  - Users to register directly if no other option
  - SAR services to access registration data through Internet

Cospas-Sarsat Documentation

- "Cospas-Sarsat Data Distribution Plan" (C/S A.001) lists points of contact for SAR Services to reach 406 MHz beacon registers. This information is available for almost 110 countries.

- The "Cospas-Sarsat Handbook of Regulations on 406 MHz and 121.5 MHz Beacons" (C/S S.007) includes information on administrative points of contact pertaining to beacon coding, registration and type approval of interest to beacon owners, manufacturers and retailers. This information is available for almost 80 countries.

DDP Annex I/F, Indication of IBRD Use

A1OCT19A.06 I / F-23 C/S A.001 - Issue 4 - Rev.9 October 2006

COUNTRY / REGION CODE	COUNTRY / REGION NAME	NAME	ACCESS TO 406 MHz BEACON REGISTERS TELEX	FACSIMILE	AFTN / E-MAIL	TELEPHONE	ASSOCIATED MCC or RCC	MAINTAINED BY:
473 475	Yemen*	-	-	-	-	-	-	-
678	Zambia*	-	-	-	-	-	-	-
679	Zimbabwe*	-	-	-	-	-	-	-

Note: * - Beacons with this country code may be registered in the International 406 MHz Beacon Registration Database (www.406registration.com).

- END OF ANNEX I / F -

Note: * - Beacons with this country code may be registered in the International 406 MHz Beacon Registration Database (www.406registration.com).

C/S Website: Indication of IBRD Use

http://www.cospas-sarsat.org/ibrd/countries.htm

Countries Allowing Individual Registration in the International 406 MHz Beacon Registration Database (IBRD)

Sorted by country name

Country Code	Country Name
401	AFGHANISTAN
201	ALBANIA
202	ANDORRA
301	ANGUILLA
216	ARMENIA
608	ASCENSION
204	AZORES
408	BAHRAIN
405	BANGLADESH
314	BARBADOS
206	BELARUS
312	BELIZE
610	BENIN
410	BHUTAN
720	BOLIVIA
478	BOSNIA HERZEGOVINA
611	BOTSWANA
378	BRITISH VIRGIN ISLANDS
508	BRUNEI DARUSSALAM
633	BURKINA FASO
506	MYANMAR
609	BURUNDI

Sorted by country code

Country Code	Country Name
201	ALBANIA
202	ANDORRA
204	AZORES
206	BELARUS
208	VATICAN
214	MOLDOVA
216	ARMENIA
243	HUNGARY
255	MADEIRA
262	MONTENEGRO
268	SAN MARINO
270	CZECH REPUBLIC
274	THE FORMER YUGOSLAV REP. OF MACEDONIA
278	SLOVENIA
301	ANGUILLA
312	BELIZE
314	BARBADOS
323	CUBA
325	DOMINICA
327	DOMINICAN REPUBLIC
330	GRENADA

To Access the IBRD

- Passwords obtained from the C/S Secretariat
- Letter Template Available on the C/S website

ADMINISTRATION NOTIFICATION OF INTENT TO USE THE IBRD
AND REQUEST FOR IBRD USER IDENTIFICATION AND PASSWORD
(Please modify this form as appropriate and fax or mail to the address below)

International Cospas-Sarsat Programme, 700 de la Gauchetière West, Suite 2450
Montréal, Québec H3B 5M2 Canada Fax: +1 514 954 6750

Dear Sir or Madam:

I would like to request access to the Cospas-Sarsat International Beacon Registration Database (IBRD) on behalf of [*country*] for the following purposes *(select as appropriate)*:

- ☐ bulk uploading of data by our National Data Provider,
- ☐ IBRD queries by our authorized national SAR services,
- ☐ IBRD queries by our authorized ship and aircraft inspectors and maintenance facilities.

I designate the following to be [*country's*] National IBRD Point of Contact:

Name	
Full Mailing Address	
Phone	
Facsimile	
Email	

Sincerely,

(signature of Cospas-Sarsat Representative or National IMO or ICAO representative)

IBRD SAR User Accounts allocated in the Western DDR

WDDR		SAR LOGIN
USA (Nodal)	Aruba	
	Bahamas	
	Barbados	
	Belize	
	Bermuda	
	Cayman Islands	
	Colombia	
	Costa Rica	
	Cuba	
	Dominican Republic	
	Ecuador	
	El Salvador	
	Grenada	
	Guatemala	
	Guyana	
	Haiti	
	Honduras	
	Jamaica	Yes
	Mexico	
	Micronesia	
	Netherlands Antilles	
	Nicaragua	
	Panama	Yes
	St.Vincent and the Grenadines	
	Trinidad and Tobago	
	Turks and Caicos Islands	
	Venezuela	Yes
	USA	Yes
Argentina	Argentina	Yes
Brazil	Brazil	Yes
Chile	Bolivia	
	Chile	Yes
	Paraguay	
	Uruguay	Yes
Canada	Canada	Yes
Peru	Peru	

http://www.406registration.com

Welcome to the International 406MHz Beacon Registration Database

To register a beacon or view/amend your registration data click here

To search the database (SAR services and officials only / password required) click here

Twelve Mandatory Fields

- Beacon Hexadecimal ID, Owner Name, Owner Password Owner phone number and type
- First Emergency Contact Name and Contact (Phone number and type for primary emergency point of contact)
- Challenge Question and Challenge Response
- Vehicle Type (Vehicle code for aircraft, vessel or personal use. Should be selectable from drop-down menu)
- Vehicle Name, MMSI, Call sign, or Ship Identification Number (except for PLBs)

15 Hex ID

- 15 hexadecimal character string
- Valid range: numbers 0 through 9 and letters A through F
- Uniquely identifies your 406 MHz beacon
- Is encoded in the message your beacon transmits to search and rescue services if your beacon is activated
- Contains the country code and other identification features relative to the carrier which are dependent upon the coding protocol used
- Can identify the carrier using the radio call sign, a serial number, aircraft registration marking, etc.
- Should appear on a label affixed to the beacon or in the beacon documentation provided by the beacon manufacturer

ADCD015A32C0401

Beacon Decode Program

406 MHz Decode Program
(Version 3.1)

ADCD015A32C0401 (15 Hexadecimal ID) (22 Hexadecimal) (30 Hexadecimal) [process]

Click here for the ITU List of MID Country Code Numbers.

ITEM	BITS	VALUE
Message format: Not provided in 15 hex id	**25**	
Protocol: User	**26**	**1**
Country code: 366 (USA)	**27-36**	**0101101110**
User type: Serial User	**37-39**	**011**
Serial Type: Float Free EPIRB with Serial Identification Number	**40-42**	**010**
Cospas-Sarsat Certificate Number in bits 74-83: No	**43**	**0**
Serial Number: 22156	**44-63**	**00000101011010001100**
All 0s or National Use	**64-73**	**1011000000**
C/S Number or National Use (bit 43 refers): Nationally Assigned (not Cospas-Sarsat)	**74-83**	**0100000000**
Aux radio device: 121.5 MHz	**84-85**	**01**
15 Hex ID:	**N/A**	**ADCD015A32C0401**

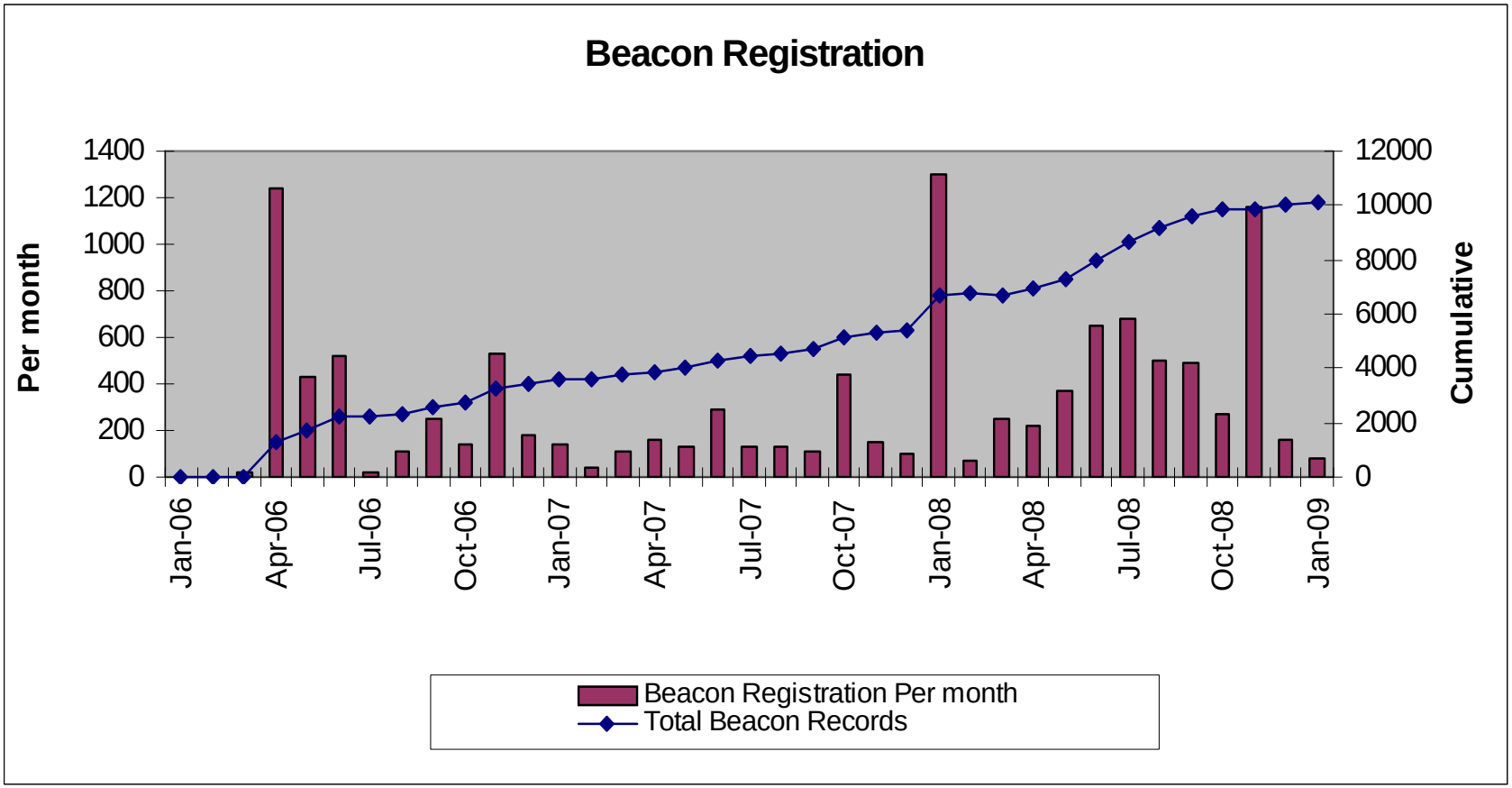
http://www.cospas-sarsat.org/Beacons/decode.htm

IBRD Beacon Registrations

As of 1 January 2009:

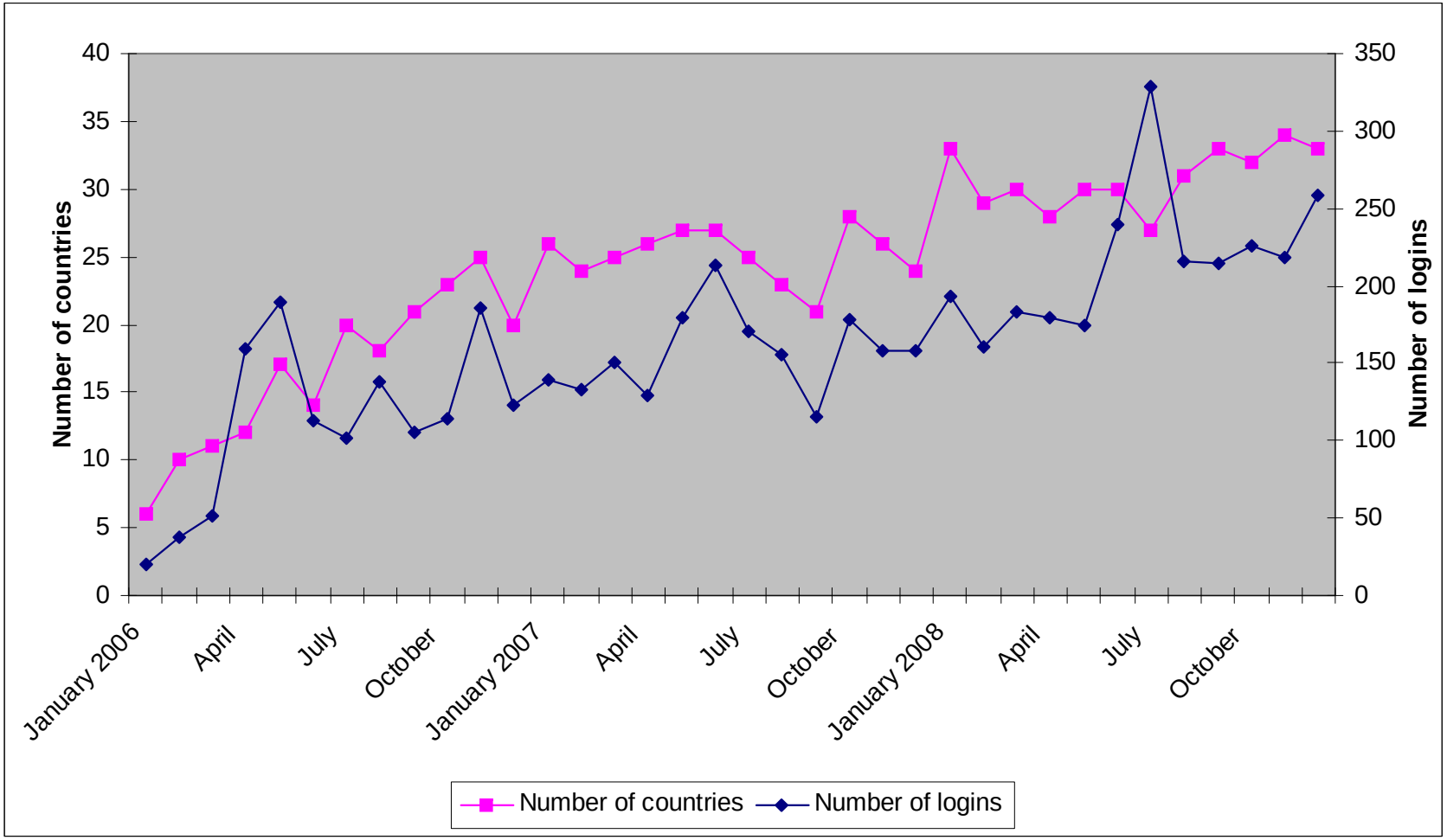
10,029

IBRD Beacon Registrations December 2008



SAR Logins

(Since January 2006)



SAR Logins

(Since January 2006)

Top twenty SAR users of the IBRD as at 1 Dec 2008 (since inception)

France	Hong Kong
USA	Korea
Canada	Uruguay
UAE	Bulgaria
Brazil	UK
Russia	Australia
Vietnam	Egypt
Sweden	Japan
Argentina	Spain
Norway	Mauritius

Welcome to the International 406MHz Beacon Registration Database

To register a beacon or view/amend your registration data click here

To search the database (SAR services and officials only / password required) click here

PLEASE VISIT

http://www.406registration.com

International 406MHz Beacon Registration Database (IBRD)

Registration Demonstration

Welcome to the International 406MHz Beacon Registration Database

To register a beacon or view/amend your registration data click here

To search the database (SAR services and officials only / password required) click here

INTERNATIONAL 406 MHz BEACON REGISTRATION DATABASE (IBRD) SYSTEM
COSPAS
SARSAT
English
Français
Русский
Español
Contact mail@cospas-sarsat.int via email if you have any questions or comments about this site.
Other Links: [Cospas-Sarsat | ITU-MARS | ICAO | IMO]

INTERNATIONAL 406 MHz BEACON REGISTRATION DATABASE (IBRD) SYSTEM

Important Notice:

You must agree to the following statements before entering or modifying any International Beacon Registration Database (IBRD) Registration Record.

Cospas-Sarsat is neither responsible nor liable for the accuracy of the data in the IBRD. The data provider is solely responsible for the accuracy all the information entered into the IBRD.

Although the information provided will become a matter of public record, there is no intent to circulate the information furnished beyond its intended purpose, i.e., to assist SAR Services in carrying out their mission of search and rescue and false alert abatement and to the National Administration designated by the country code of the beacon.

Cospas-Sarsat will not be responsible for unauthorised access or unauthorised changes to IBRD registration data that may result from malicious activities. Cospas-Sarsat will, on a best effort basis, implement measures to protect the integrity of the data, however, Cospas-Sarsat does not guarantee that registration information will not be corrupted or lost.

Cospas-Sarsat accepts no liability for loss of life or property that may result from inaccurate or incomplete data.

ACCEPT CANCEL

[Help | Feedback Survey | Contact Us | Privacy Policy]
Other Links: [Cospas-Sarsat | ITU-MARS | ICAO | IMO]

Remarque importante:

Vous devez accepter les conditions suivantes avant d'accéder aux dossiers d'enregistrement de la base de données internationale (IBRD), ou de les modifier.

Le but de l'IBRD est d'aider les services de recherche et de sauvetage (SAR) à mener à bien leur mission et à identifier les fausses alertes. Bien que les informations fournies soient publiques, il n'y a aucune intention de distribuer ces informations en dehors de l'administration nationale indiquée par le code-pays de la balise et des services SAR autorisés.

Cospas-Sarsat n'est pas responsable et ne s'engage pas sur l'exactitude des données contenues dans la base de données IBRD. Le fournisseur de données est seul responsable de l'exactitude des données enregistrées dans l'IBRD.

Cospas-Sarsat n'accepte aucune responsabilité en cas d'accès non autorisé ou de changement non autorisé des données de la base IBRD qui pourraient résulter d'activités malveillantes. Cospas-Sarsat s'efforcera de protéger l'intégrité des données, cependant, Cospas-Sarsat ne peut garantir que les informations enregistrées ne seront pas corrompues ou perdues.

Cospas-Sarsat n'accepte aucune responsabilité en cas de décès ou de dommages matériels qui pourraient être attribués à des données imprécises ou incomplètes.

Accepter | Annuler

Важное сообщение :

Вы должны согласиться со следующей информацией перед внесением или изменением данных в Международной регистрационной базе данных (IBRD).

Коспас-Сарсат не несет ответственности за достоверность данных в IBRD. Вся ответственность за достоверность данных возлагается на поставщика информации.

Целью IBRD является оказание помощи службам поиска и спасания в выполнении своей миссии и уменьшения вероятности ложных аварийных тревог. Хотя предоставленная информация перейдет в общественное пользование, службы поиска и спасания не намереваются распространять данную информацию вне границ, определяемых кодом страны и целями служб поиска и спасания.

Коспас-Сарсат не несет ответственности за неуполномоченный доступ к регистрационным данным IBRD, произведенным в злонамеренных целях. Коспас-Сарсат предпримет все возможные меры для защиты целостности данных, однако не гарантирует, что регистрационная информация не будет испорчена или утеряна.

Коспас-Сарсат не несет никакой ответственности за потерю жизни или имущества в результате неточности или неполноты данных в IBRD.

Соглашаюсь | Отменить

Aviso Importante:

Ud. deberá estar de acuerdo a las siguientes cláusulas antes de entrar a modificar cualquier registro de la Base de datos Internacional de Registro de Balizas (IBRD).

El objetivo de la IBRD es ayudar a los servicios SAR en su misión de búsqueda y salvamento así como en la reducción del número de falsas alertas. Aunque la información proporcionada sea de dominio público, dicha información sólo sería accesible por las Administraciones Nacionales designadas por el código de la baliza y los servicios SAR autorizados.

El Cospas-Sarsat no asume responsabilidad alguna en relación a datos incorrectos que se encuentren en la IBRD. El proveedor de datos es el único responsable de la autenticidad de la información proporcionada a la IBRD.

El Cospas-Sarsat no se hace responsable del acceso o cambios no autorizados de los datos de registro de la IBRD que resulten de una actividad maliciosa. El Cospas-Sarsat aplicará medidas para proteger la integridad de los datos. Sin embargo, el Cospas-Sarsat no garantiza que la información de registro no sufra daños, pudiendo dar lugar a la corrupción o pérdida de datos.

El Cospas-Sarsat no se responsabiliza de cualquier pérdida de propiedad o vidas que resulten a causa de datos incompletos o equivocados que se encuentren archivados en la IBRD.

Aceptar | Cancelar

INTERNATIONAL 406 MHz BEACON REGISTRATION DATABASE (IBRD) SYSTEM

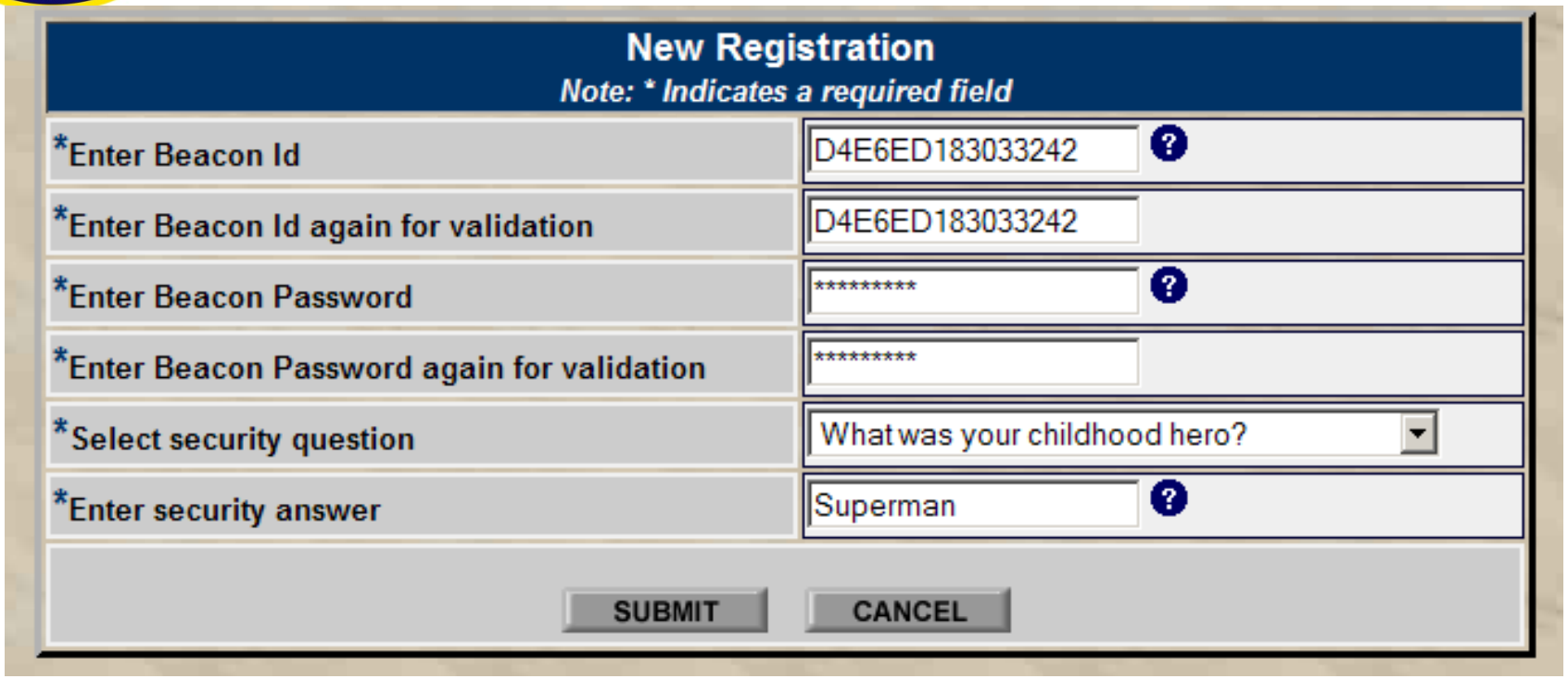
Beacon Data Provider Welcome Page

Please remember that a Beacon ID and/or a National Data Provider account is required to use the on-line system.

- New Registration Register a new beacon.
- Access Beacon Access existing beacon registration data.
- Access National Beacons Access beacons maintained by a National Data Provider.

[Help | Feedback Survey | Contact Us | Privacy Policy]
Other Links: [Cospas-Sarsat | ITU-MARS | ICAO | IMO]

New Registration



15 Hex ID:

- the representation in hexadecimal characters of the content of bits 26 to 85 in the beacon message,
- defined in document C/S T.001,
- should be permanently marked on the exterior of the beacon

Blocked Country Code

The beacon identification code you have entered can not be directly registered in the IBRD. The appropriate Point of Contact for a beacon with this country code is given below.

ASMCC

E-mail:	maritimeradio@ixmail.co.za
Telephone:	27 21 5529752
FAX:	27 21 5513760
Address:	MRCC Cape Town P.O. Box 532 Parrow 7499, South Africa
Telex:	95 521850 ASMCC SA
AFTN:	FACTYCYX

BACK

Registration Form

INTERNATIONAL 406 MHz BEACON REGISTRATION DATABASE (IBRD) SYSTEM

Official 406 MHz ELT Registration

Please note that this page expires within 30 minutes.

New Registration
Note: * Indicates a required field

ELT Information

Beacon ID (Unique Identifier)
D4E6ED183033242
(15 character ID provided by manufacturer)

Manufacturer: Other
If "Other": ACME
Model Number: 11111
Beacon Homing Device: None
C-S Type Approval Number: 111
Additional Beacon Information:

Date Confirmation Sent (no date/time recorded)
Date Confirmation Last Received (no date/time recorded)
Special Status Normal
Previous Special Status Normal
Date First Registered null
Date Last Updated null
Special Status Last Updated (no date/time recorded)

Owner/Operator Information

*Name: Cospas-Sarsat Secretariat
(Last First Middle Initial)
Address: 700 de la Gauchetière Ouest, Suite 2450
City: Montréal
State/Province: Québec
Postal Code: H3B5M2
Country: Canada
E-mail: mail@cospas-sarsat.int
(Please note: Email is the ONLY available method for IBRD User correspondence)

Telephone
* 1-514-954-6761 Work

Aircraft Information

*Type: Single Engine Propeller
If "Other":
Aircraft Manufacturer: ACME
Aircraft Model:
Aircraft Color: Blue
Aircraft Operating Agency:
Seating Capacity: 25
Radio Equipment (Check all that apply)
☐ VHF ☐ MF ☐ HF
☐ SSB ☐ Other

Survival Crafts/Equipment
Deployable:
(Describe and List Quantity)
Fixed:
(Describe and List Quantity)
*Official Registration Number: CS-898
Aircraft 24 Bit Address:
Aircraft Nationality:
(three digit code from ITU)
Additional Vehicle/Usage Information

```
Trip itinerary: Flying from Montreal, Canada
over the Atlantic toward France, then South
Africa.
Health issues: Passenger Smith is allergic
to penicillin.
```

Emergency Contact Information (Please indicate someone other than the owner)

*Name of Primary 24-Hour Emergency Contact: John Smith
Address: 555 Special Road
Montreal, Quebec, Canada
Telephone
* 1-514-555-8888 Home
1-514-555-3333 Fax

Name of Alternate 24-Hour Emergency Contact: Jane Smith
Address: 777 Pleasant Road
Montreal, Quebec, Canada
Telephone
1-514-555-9999 Cell
1-514-555-2222 Work

UPDATE CANCEL

ELT Information

Official 406 MHz ELT Registration

Please note that this page expires within 30 minutes.

New Registration

Note: * Indicates a required field

ELT Information

Beacon ID (Unique Identifier)

D4E6ED183033242

(15 character ID provided by manufacturer)

Manufacturer Other

If "Other" ACME

Model Number 11111

Beacon Homing Device None

C-S Type Approval Number 111

Additional Beacon Information

Date Confirmation Sent (no date/time recorded)

Date Confirmation Last Received (no date/time recorded)

Special Status Normal

Previous Special Status Normal

Date First Registered null

Date Last Updated null

Special Status Last Updated (no date/time recorded)

Please note this page expires within 30 minutes…

Owner/Operator Information

Owner/Operator Information

*Name: Cospas-Sarsat Secretariat
(Last First Middle Initial)

Address: 700 de la Gauchetière Ouest, Suite 2450

City: Montréal

State/Province: Québec

Postal Code: H3B5M2

Country: Canada

E-mail: mail@cospas-sarsat.int

(Please note: Email is the ONLY available method for IBRD User correspondence)

Telephone

* 1-514-954-6761 Work

Aircraft Information

Aircraft Information

*Type: Single Engine Propeller

If "Other":

Aircraft Manufacturer: ACME

Aircraft Model:

Aircraft Color: Blue

Aircraft Operating Agency:

Seating Capacity: 25

Radio Equipment (Check all that apply)

- [ ] VHF
- [ ] MF
- [ ] HF
- [ ] SSB
- [ ] Other

Survival Crafts/Equipment

Deployable:

(Describe and List Quantity)

Fixed:

(Describe and List Quantity)

*Official Registration Number: CS-898

Aircraft 24 Bit Address:

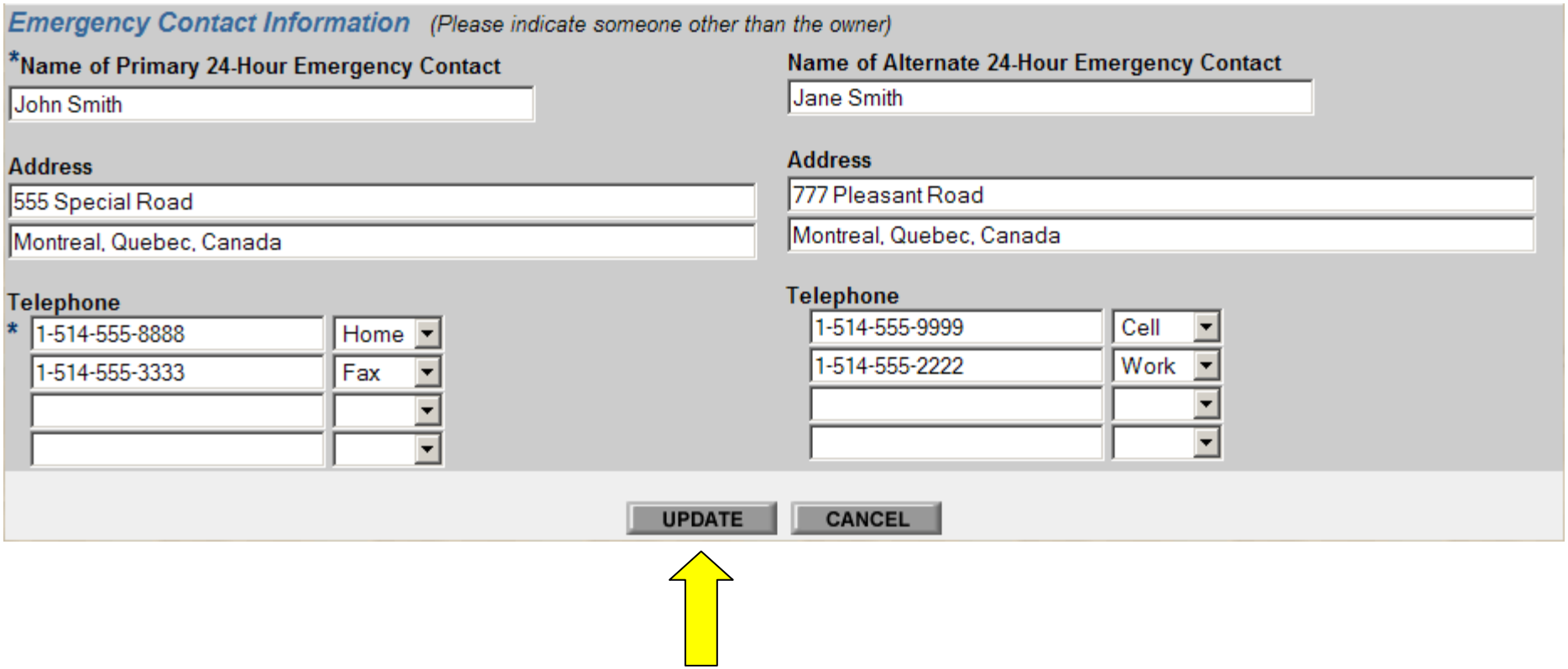
Aircraft Nationality:

(three digit code from ITU)

Additional Vehicle/Usage Information

Trip itinerary: Flying from Montreal, Canada over the Atlantic toward France, then South Africa.
Health issues: Passenger Smith is allergic to penicillin.

Emergency Contact Information



Emergency Contact Information *(Please indicate someone other than the owner)*

*Name of Primary 24-Hour Emergency Contact
John Smith

Address
555 Special Road
Montreal, Quebec, Canada

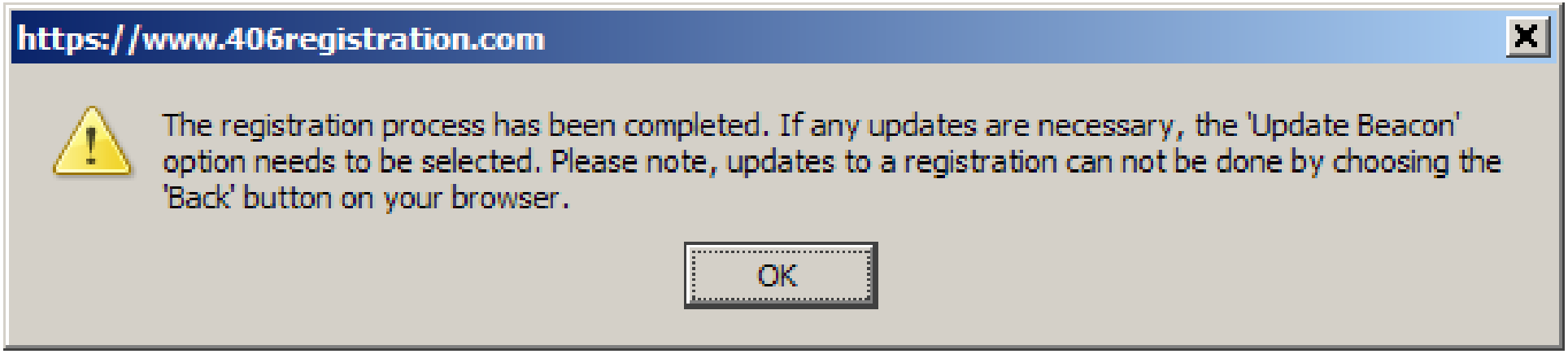
Telephone
* 1-514-555-8888 Home
1-514-555-3333 Fax

Name of Alternate 24-Hour Emergency Contact
Jane Smith

Address
777 Pleasant Road
Montreal, Quebec, Canada

Telephone
1-514-555-9999 Cell
1-514-555-2222 Work

UPDATE CANCEL


https://www.406registration.com
The registration process has been completed. If any updates are necessary, the 'Update Beacon' option needs to be selected. Please note, updates to a registration can not be done by choosing the 'Back' button on your browser.
OK

Register New Beacon | Update Beacon | Acknowledge Confirmation Request | Change Beacon Status | Change Beacon Password

INTERNATIONAL 406 MHz BEACON REGISTRATION DATABASE (IBRD) SYSTEM

Official 406 MHz ELT Registration

View Only

This screen is for viewing data ONLY. If you wish to update your registration information **Click Here**

View Registration

ELT Information

Beacon ID (Unique Identifier)
D4E6ED183033242
(15 character ID provided by manufacturer)

Manufacturer Other
ACME

Model Number 11111
C-S Type Approval Number 111

Beacon Homing Device None
Additional Beacon Information

Date Confirmation Sent 2006-11-03 12:29:19.717
Date Confirmation Last Received (no date/time recorded)
Special Status Normal
Previous Special Status Normal

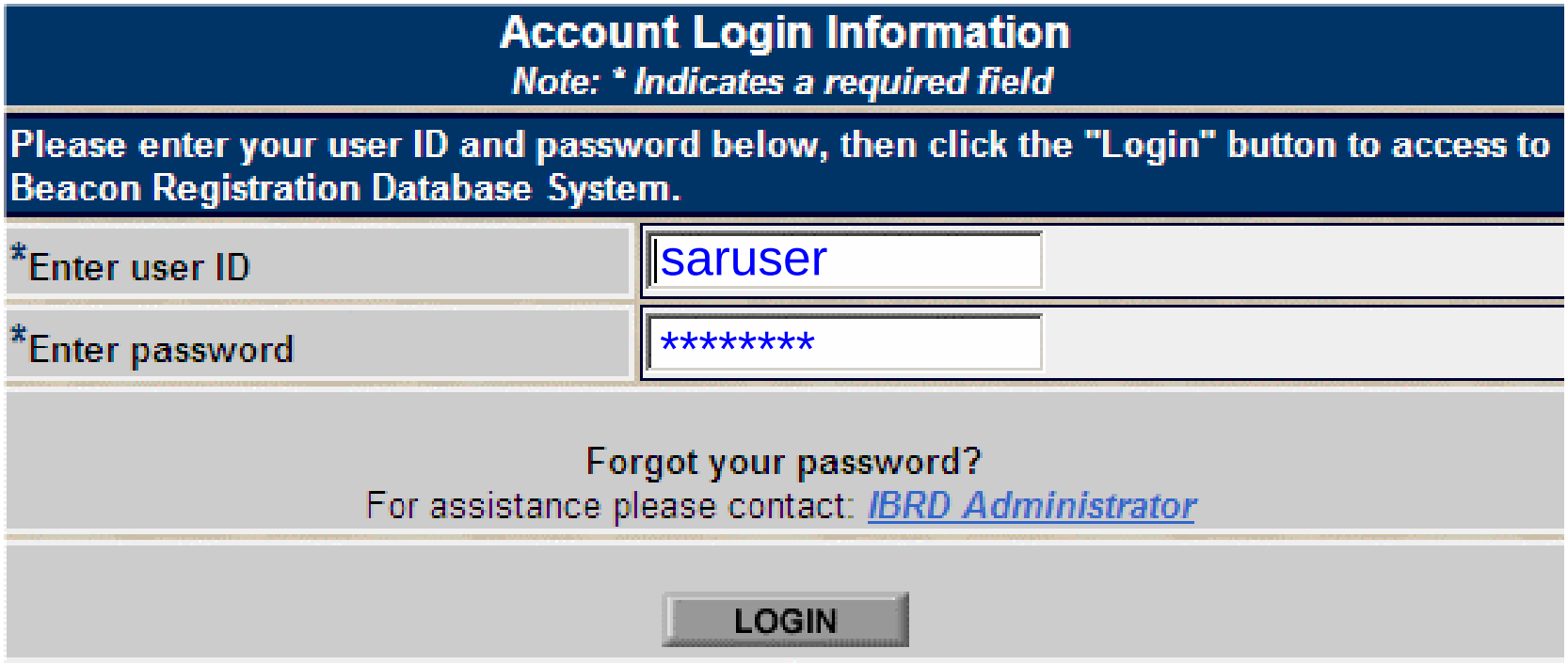
Date First Registered 2006-11-03 12:29:19.717
Date Last Updated 2006-11-03 12:29:19.717
Special Status Last Updated (no date/time recorded)

Owner/Operator Information

Name Cospas-Sarsat Secretariat
(Last First Middle Initial)

Telephone
1-514-954-6761
Work

Queries by SAR Services



INTERNATIONAL 406 MHz BEACON REGISTRATION DATABASE (IBRD) SYSTEM

Important Notice:

You must agree to the following statements before querying the IBRD.

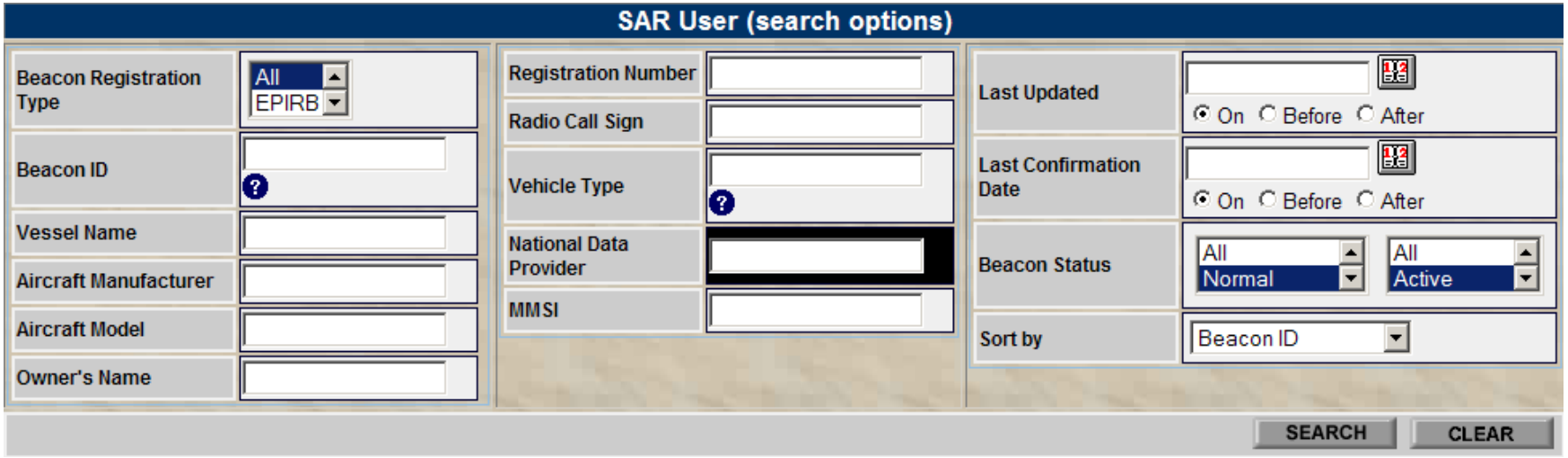
Registration data obtained from the IBRD will be used for Search and Rescue purposes only.

Cospas-Sarsat does not guarantee the accuracy or completeness of the data and accepts no liability for loss of life or property which may result from inaccurate or incomplete data.

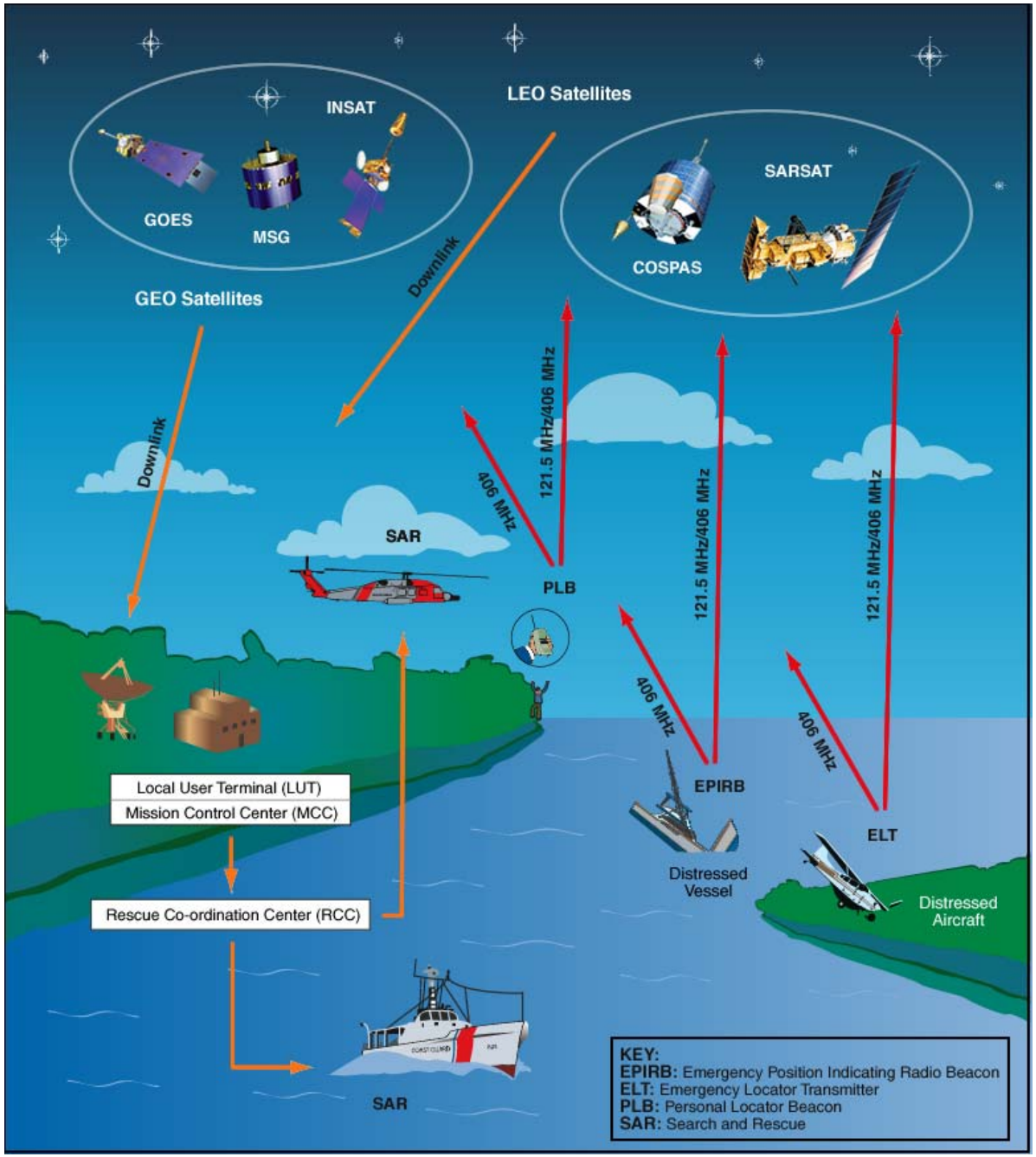
ACCEPT CANCEL

[Help | Feedback Survey | Contact Us | Privacy Policy]
Other Links: [Cospas-Sarsat | ITU-MARS | ICAO | IMO]

SAR User Search Options



Questions?


INSAT
LEO Satellites
GOES
MSG
SARSAT
COSPAS
GEO Satellites
Downlink
Downlink
121.5 MHz/406 MHz
406 MHz
SAR
PLB
121.5 MHz/406 MHz
121.5 MHz/406 MHz
406 MHz
406 MHz
EPIRB
ELT
Local User Terminal (LUT)
Mission Control Center (MCC)
Rescue Co-ordination Center (RCC)
Distressed Vessel
Distressed Aircraft
SAR
KEY:
EPIRB: Emergency Position Indicating Radio Beacon
ELT: Emergency Locator Transmitter
PLB: Personal Locator Beacon
SAR: Search and Rescue