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

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				ASSOCIATED MCC or RCC	MAINTAINED BY:
			TELEX	FACSIMILE	AFTN / E-MAIL	TELEPHONE		
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			Sorted by country code	
Country Code	Country Name		Country Code	Country Name
401	AFGHANISTAN		201	ALBANIA
201	ALBANIA		202	ANDORRA
202	ANDORRA		204	AZORES
301	ANGUILLA		206	BELARUS
216	ARMENIA		208	VATICAN
608	ASCENSION		214	MOLDOVA
204	AZORES		216	ARMENIA
408	BAHRAIN		243	HUNGARY
405	BANGLADESH		255	MADEIRA
314	BARBADOS		262	MONTENEGRO
206	BELARUS		268	SAN MARINO
312	BELIZE		270	CZECH REPUBLIC
610	BENIN		274	THE FORMER YUGOSLAV REP. OF MACEDONIA
410	BHUTAN			
720	BOLIVIA		278	SLOVENIA
478	BOSNIA HERZEGOVINA		301	ANGUILLA
611	BOTSWANA		312	BELIZE
378	BRITISH VIRGIN ISLANDS		314	BARBADOS
508	BRUNEI DARUSSALAM		323	CUBA
633	BURKINA FASO		325	DOMINICA
506	MYANMAR		327	DOMINICAN REPUBLIC
609	BURUNDI		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.

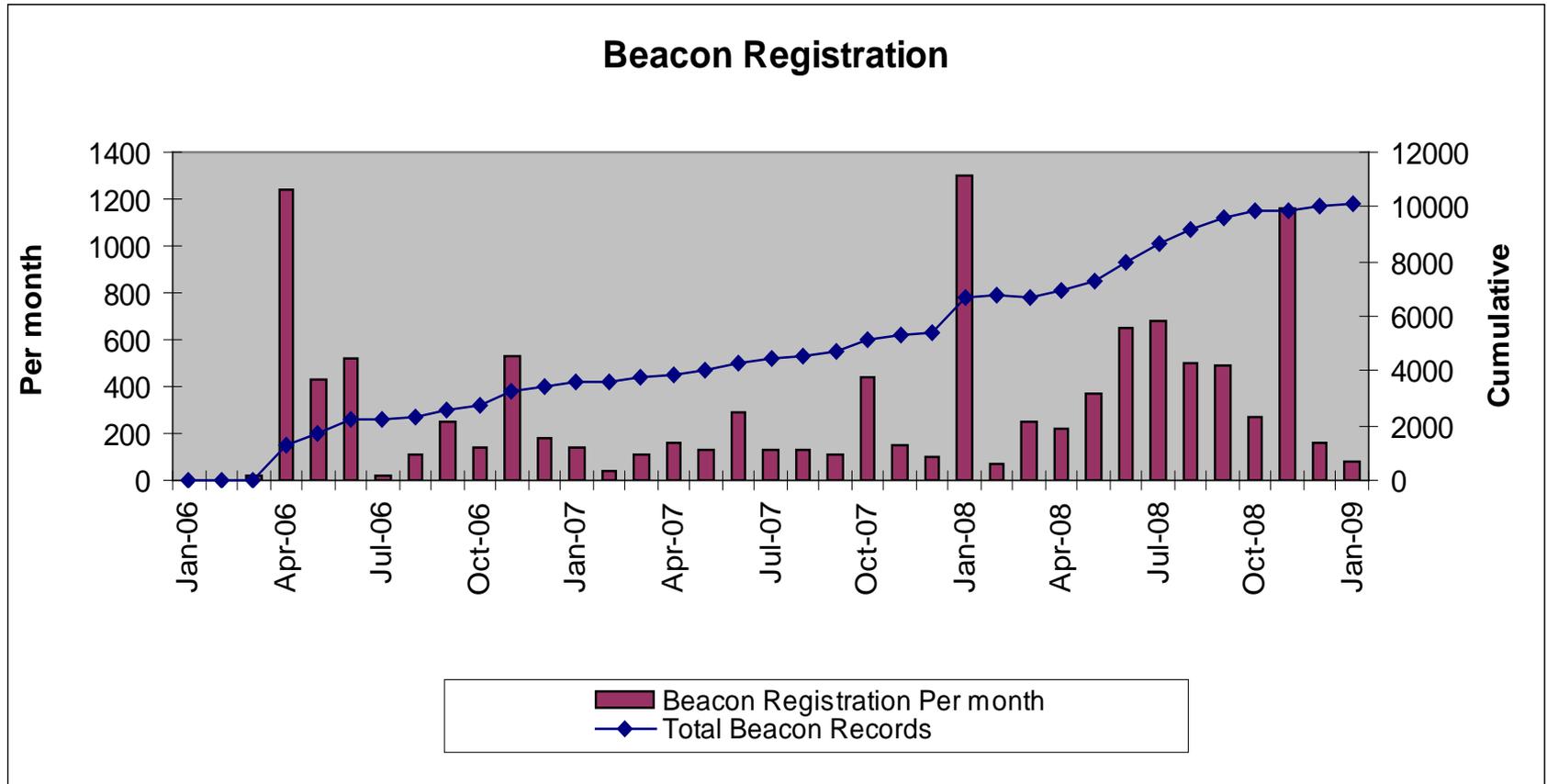| ITEM	BITS	VALUE
Message format: Not provided in 15 hex id	25	
Protocol: User	26	1
Country code: 366 (USA)	27-36	0101101110
User type: Serial User	37-39	011
Serial Type: Float Free EPIRB with Serial Identification Number	40-42	010
Cospas-Sarsat Certificate Number in bits 74-83: No	43	0
Serial Number: 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
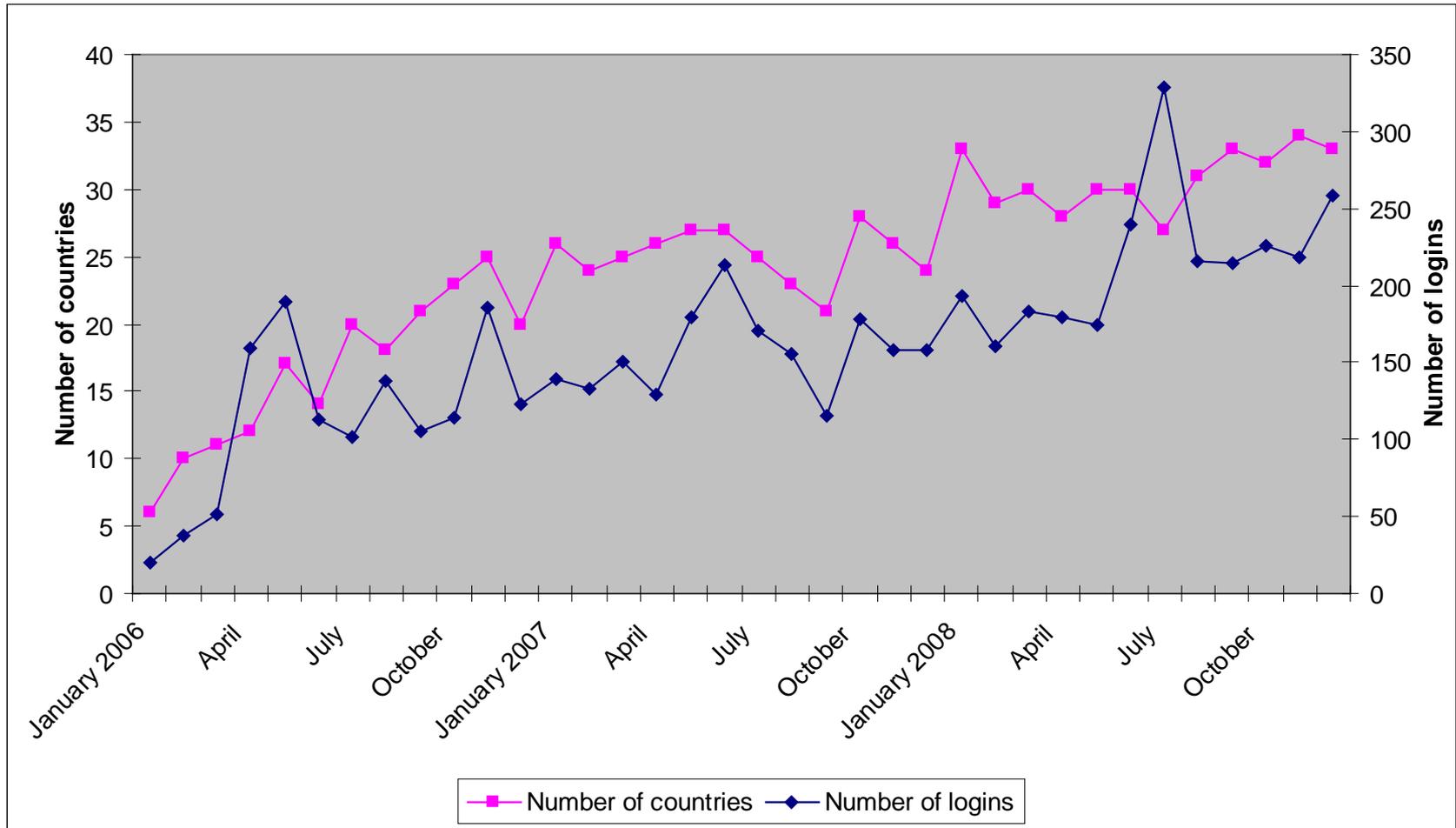

Beacon Registration

Legend:
- Beacon Registration Per month
- Total Beacon Records

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

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PLEASE VISIT
http://www.406registration.com

Questions?