

# SARSAT Beacon Manufacturer's Workshop

## September 28, 2012

### NOAA/USMCC Registration Database

Prepared by:  
Apurve Mathur/SSAI

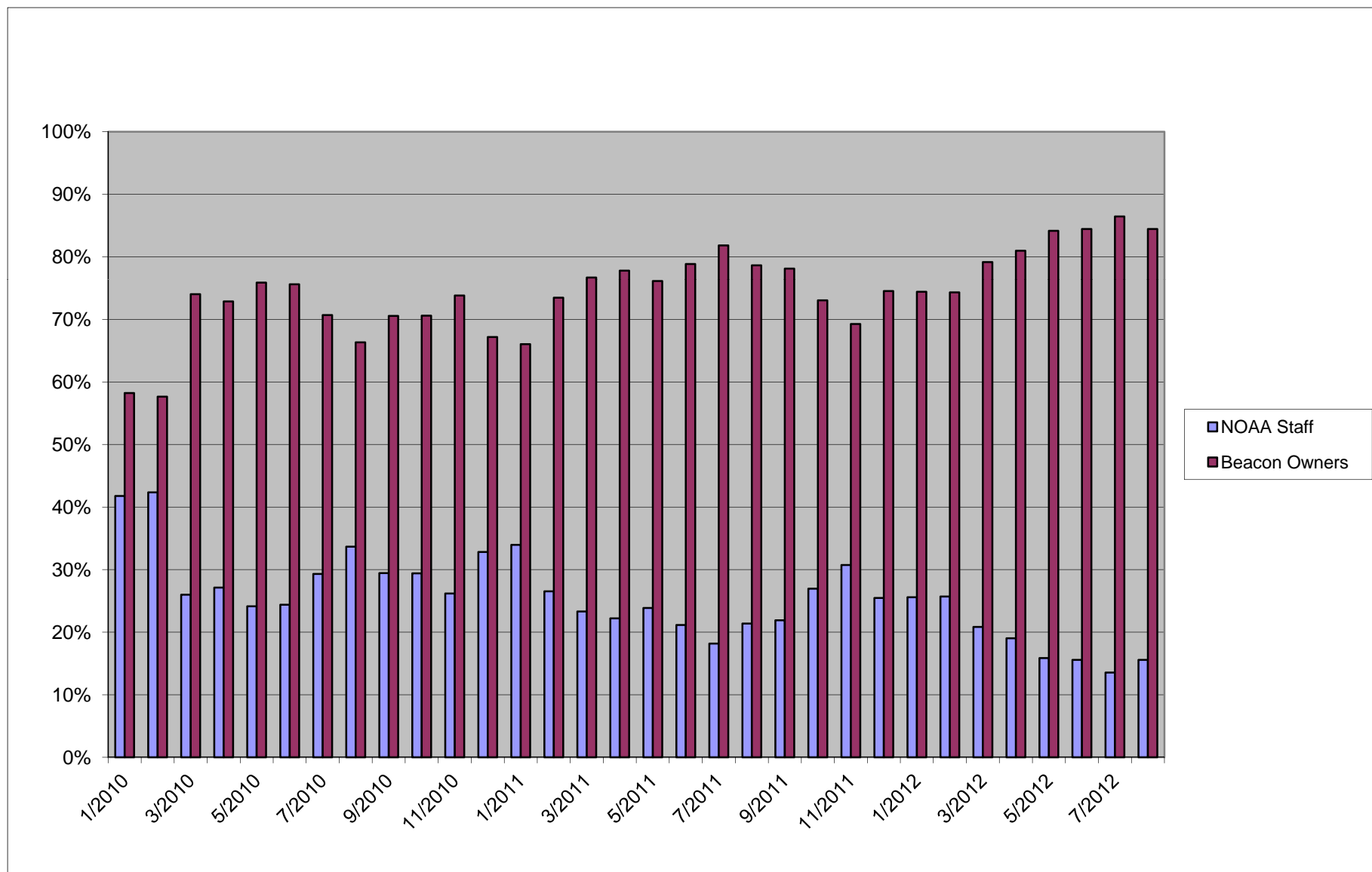


# Statistics on Updated Registrations – Jan to Jul 2012

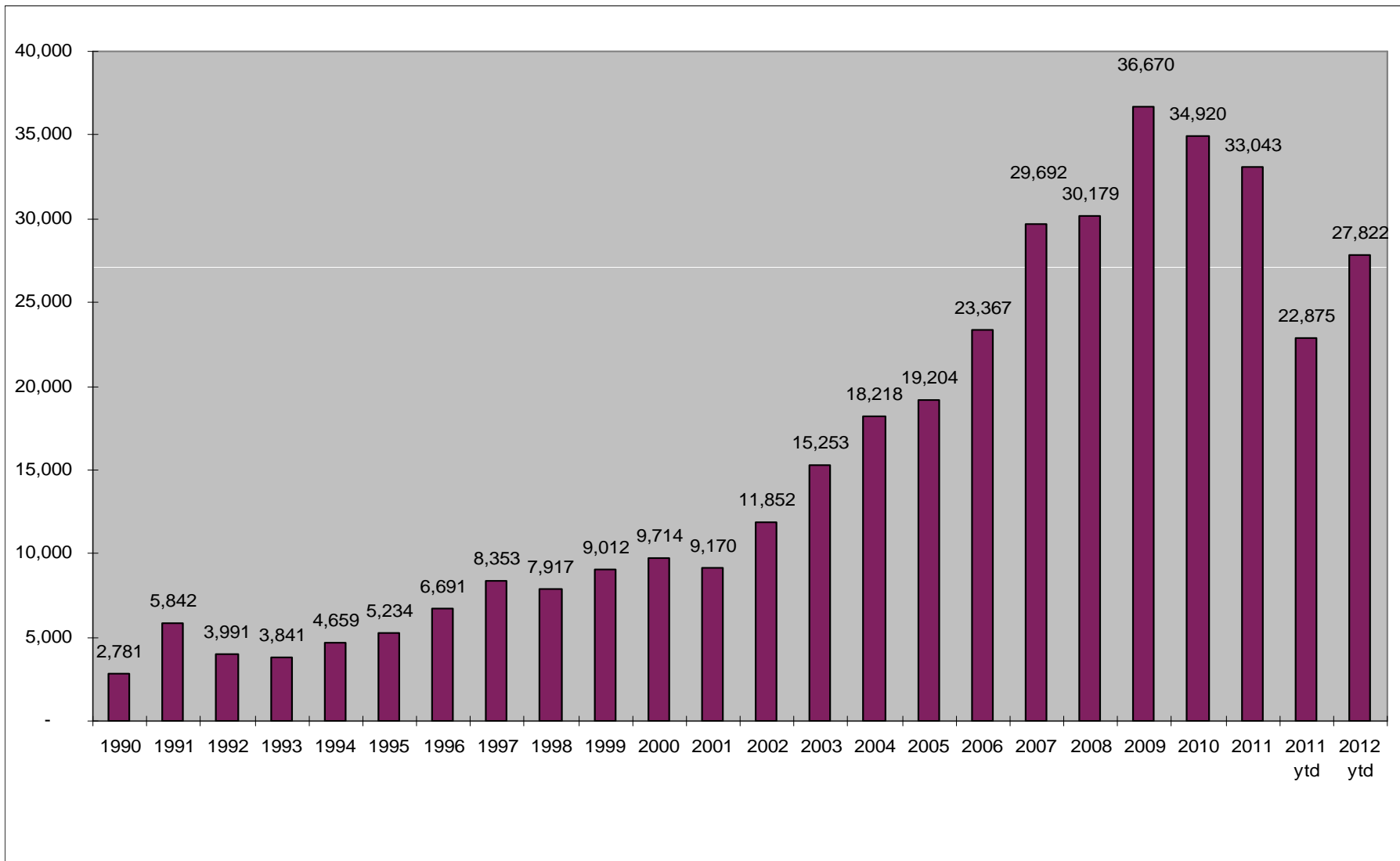


<u>Month/Year</u>	<u>Beacon Owners</u>	<u>NOAA Staff</u>	<u>Total Registrations</u>	<u>Percentage By Beacon Owners</u>	<u>Percentage By NOAA Staff</u>
Jan-12	9,244	3,442	12,686	73%	27%
Feb-12	8,489	2,736	11,225	76%	24%
Mar-12	9,591	3,476	13,067	73%	27%
Apr-12	9,324	3,467	12,791	73%	27%
May-12	10,336	3,415	13,751	75%	25%
Jun-12	10,664	3,124	13,788	77%	23%
Jul-12	9,188	2,774	11,962	77%	23%

# Initial Registrations Jan 2010 – Aug 2012

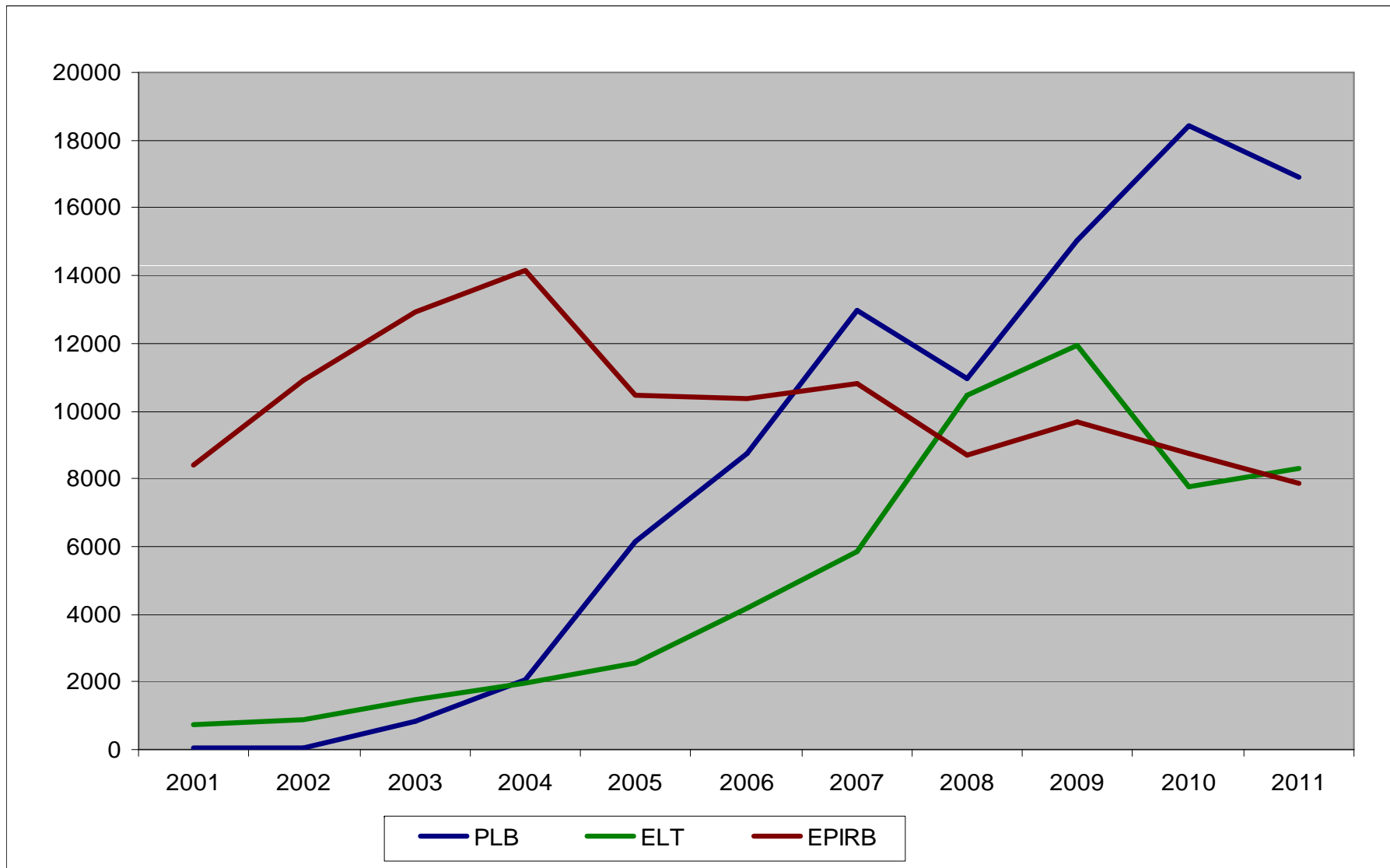


# New Registrations By Year As of August 31, 2012



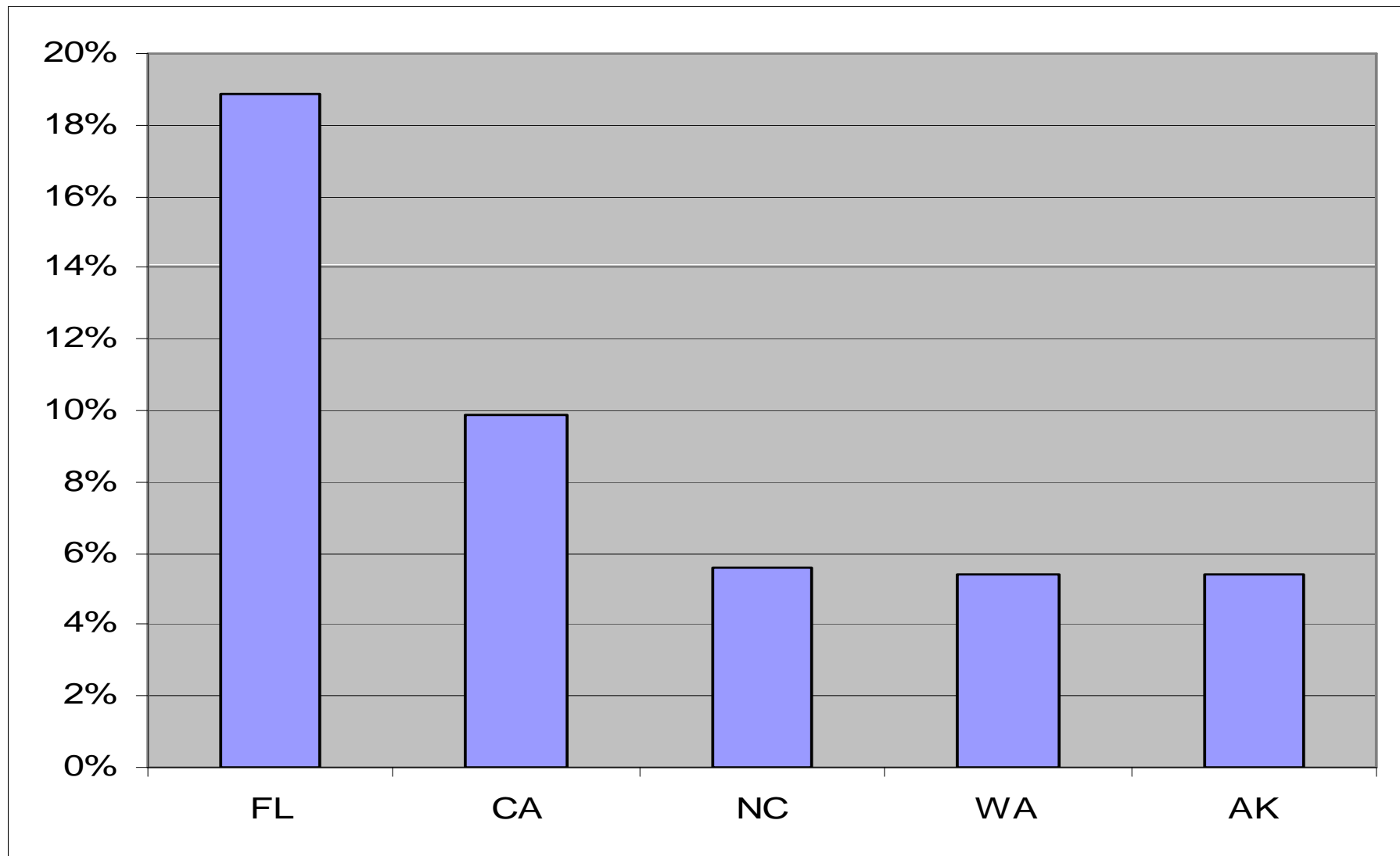


# New Beacon Registrations 2001 to 2011



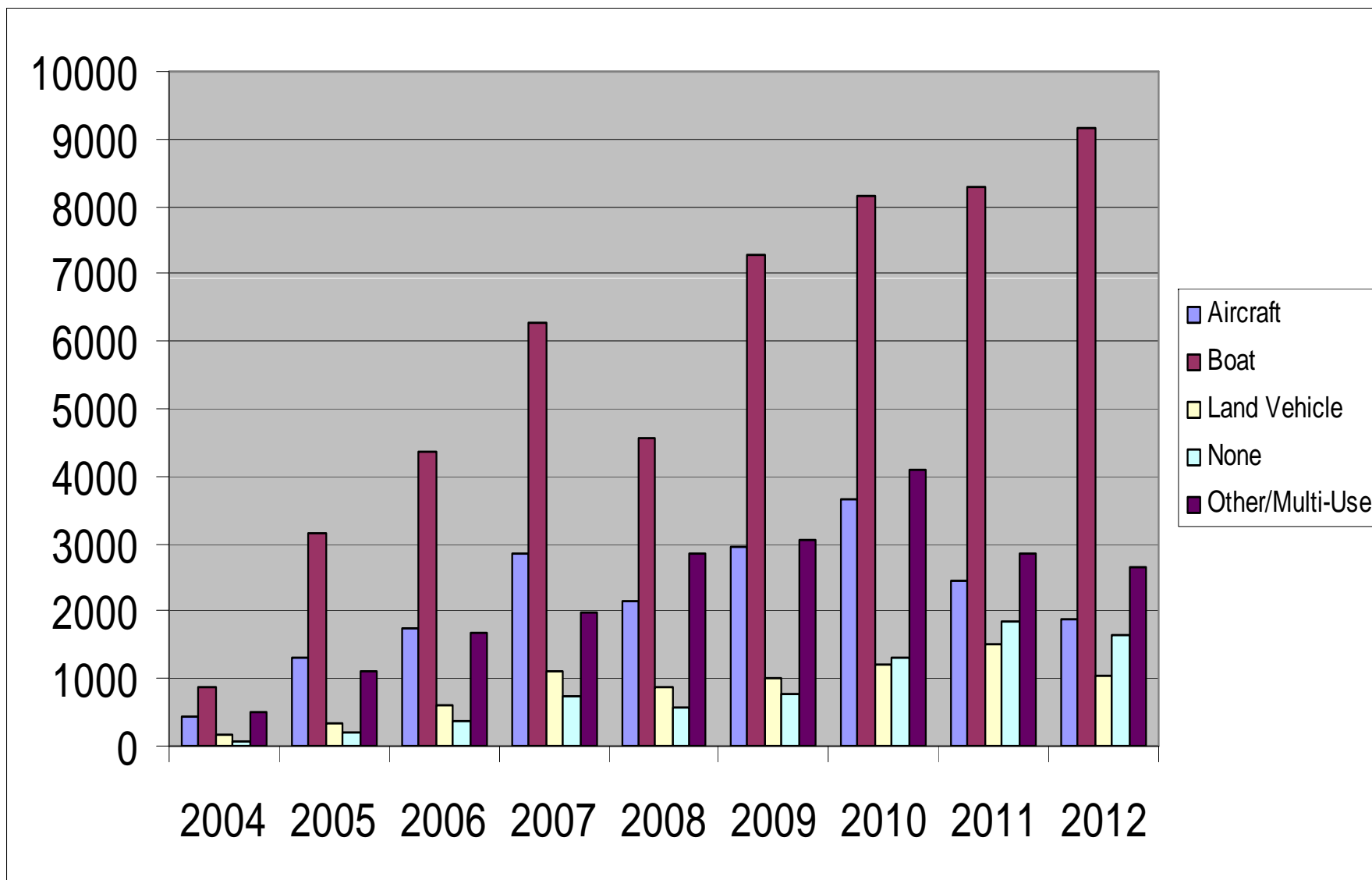


# Top 5 States for PLBs By Home Address





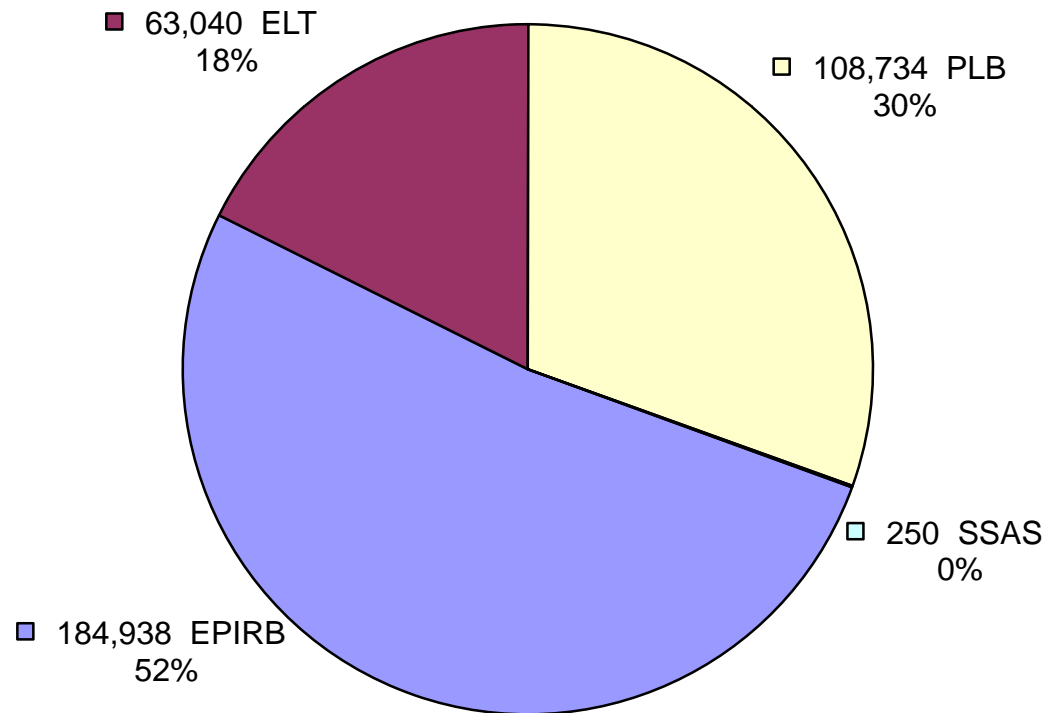
# Specific Usage for PLBs



# Distribution of Registered Beacons By Beacon Type



As Of  
August 28, 2012





# Registration Statistics Available on SARSAT Website

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- Registration statistics will be updated on a monthly basis at:
  - [www.sarsat.noaa.gov](http://www.sarsat.noaa.gov) under the “Other Resources Section” and will be titled:
    - “New Beacon Registrations By type”
      - This is a table of first-time registrations of beacons by type of beacon for each month from January 2010 through the most recent month



# New RGDB Postal Mailing Address

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SARSAT Beacon Registration  
NOAA  
NSOF E/SPO53  
1315 East West Hwy  
Silver Spring, MD 20910-9684

- Physical Address Has Not Changed
- Use following address ONLY if registrations sent by: FedEx, UPS  
SARSAT Beacon Registration  
NOAA  
NSOF E/SPO53  
4231 Suitland Road  
Suitland, MD 20746



# Current Registration forms



Save Time! Register your beacon online at: [www.beaconregistration.noaa.gov](http://www.beaconregistration.noaa.gov)

Mail or Fax to:  
SARSAT Beacon Registration  
NOAA  
NSOF, E/SPO53  
1315 East West Hwy  
Silver Spring, MD 20910  
Fax No. 301-817-4565

## Official 406 MHz EPIRB Registration Form

### EPIRB Information

Beacon ID (Unique Identifier Number)

15 digit character ID provided by EPIRB manufacturer

(15 digit character ID provided by EPIRB manufacturer)

Checksum

Checksum input field

Please affix beacon manufacturer's label here.

- Category I (Automatic Deployment)
Category II (Manual Deployment)

EPIRB Manufacturer

Model No.

### Purpose of EPIRB Registration

- New Registration, Change of Registration Information, Replacement of Decal Only, Renewal of Registration, Replacement for a previously registered EPIRB, Change of Ownership

Please enter the old unique ID number

### Owner/Operator Information

Name (Last, First, Middle Initial)

Telephone

Mailing Address

Area Code, Home, Work, Cellular, Fax, Other

City, State/Province

Area Code, Home, Work, Cellular, Fax, Other

ZIP (Postal) Code, Country

Area Code, Home, Work, Cellular, Fax, Other

End Task, Switch to, New Task...



# Current Registration forms



Save Time! Register your beacon online at: [www.beaconregistration.noaa.gov](http://www.beaconregistration.noaa.gov)

Mail or Fax to:  
SARSAT Beacon Registration  
NOAA  
NSOF, E/SPO53  
1315 East West Highway  
Silver Spring, MD 20910  
Fax No. 301-817-4565

## Official 406 MHz ELT Registration Form

### ELT Information

Beacon ID (Unique Identifier Number)

15 digit character ID provided by ELT manufacturer

(15 digit character ID provided by ELT manufacturer)

Checksum

5 digit checksum

Please affix beacon manufacturer's label here.

ELT Manufacturer \_\_\_\_\_

Model No. \_\_\_\_\_

### Purpose of ELT Registration

- New Registration
- Change of Registration Information
- Renewal of Registration
- Replacement for a previously registered ELT
- Change of Ownership

Please enter the old unique ID number

15 digit old unique ID number

### Owner/Operator Information

Name \_\_\_\_\_  
(Last, First, Middle Initial)

E-mail \_\_\_\_\_

Mailing Address \_\_\_\_\_

Telephone ( ) \_\_\_\_\_  
Area Code

Home  Work  Cellular  Fax  Other

City \_\_\_\_\_ State/Province \_\_\_\_\_

Home  Work  Cellular  Fax  Other

End Task Switch To New Task...



# Current Registration forms



Save Time! Register your beacon online at: [www.beaconregistration.noaa.gov](http://www.beaconregistration.noaa.gov)

SARSAT Beacon Registration  
NOAA  
NSOF, E/SPO53  
1315 East West Hwy  
Silver Spring, MD 20910  
Fax No. 301-817-4565

## Official 406 MHz PLB Registration Form

### PLB Information

Beacon ID (Unique Identifier Number)

15 digit character ID provided by PLB manufacturer

(15 digit character ID provided by PLB manufacturer)

Checksum

Checksum input field

Please affix beacon manufacturer's label here.

PLB Manufacturer \_\_\_\_\_

Model No. \_\_\_\_\_

### Purpose of PLB Registration

- New Registration
- Change of Registration Information
- Replacement of Decal Only
- Renewal of Registration
- Replacement for a previously registered PLB
- Change of Ownership

Please enter the old unique ID number

Old unique ID number input field

### Owner/Operator Information

Name \_\_\_\_\_  
(Last, First, Middle Initial)

Telephone

Mailing Address \_\_\_\_\_

( ) \_\_\_\_\_  Home  Work  Cellular  Fax  Other  
Area Code

( ) \_\_\_\_\_  Home  Work  Cellular  Fax  Other  
Area Code

City \_\_\_\_\_ State/Province \_\_\_\_\_

End Task

Switch To

New Task...



# New Postal Mailing Address

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## NOAA

- is updating beacon registration website
- is updating NOAA's beacon registration forms (downloadable)
- will inform Cospas-Sarsat
- will inform other relevant entities about this change

## Each beacon manufacturer needs to

- update reference to NOAA's SARSAT mailing address on its website
- download new registration forms from NOAA's registration website (when notified)
- inform all resellers and service centers
- update any correspondence documents which contain NOAA's SARSAT mailing address

# Proposed CFR Wording on Checksum (EPIRBs)



- With each marketable EPIRB unit, the manufacturer or grantee must include a postage pre-paid envelope and registration form. The envelope is to be addressed to: NOAA/SARSAT Beacon Registration, NSOF, E/SPO53, 1315 East West Hwy, Silver Spring, MD 20910. The registration form must be pre-printed with the EPIRB UIN broken into 3 groups of 5 characters, and the corresponding checksum using the algorithm provided by NOAA/SARSAT. The registration form must request the owner's name, address, telephone number, type of ship, alternate emergency contact and other information as required by NOAA. The registration form must also contain information regarding the availability to register the EPIRB at NOAA's online web-based registration database.



## Proposed CFR Wording on Checksum (ELTs)

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- With each marketable ELT unit the manufacturer or grantee must include a postage pre-paid envelope and registration form. The envelope is to be addressed to: NOAA/SARSAT Beacon Registration, NSOF, E/SPO53, 1315 East West Hwy, Silver Spring, MD 20910. The registration form must be pre-printed with the ELT UIN broken into 3 groups of 5 characters, and the corresponding checksum using the algorithm provided by NOAA. **For protocols in which the UIN will change after production, NOAA will exempt the checksum entry from the registration process.** The registration form must request the owner's name, address, telephone number, type of aircraft, alternate emergency contact, and other information as required by NOAA. The registration form must also contain information regarding the availability to register the ELT at NOAA's online web-based registration database.





## Proposed CFR Wording on Checksum (PLBs)

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- With each marketable PLB unit, the manufacturer or grantee must include a postage pre-paid envelope and registration form. The envelope is to be addressed to: NOAA/SARSAT Beacon Registration, NSOF, E/SPO53, 1315 East West Hwy, Silver Spring, MD 20910. The registration form must be pre-printed with the PLB UIN broken into 3 groups of 5 characters, and the corresponding checksum using the algorithm provided by NOAA. The registration form must request the owner's name, address, telephone number, alternate emergency contact and other information as required by NOAA. The registration form must also contain information regarding the availability to register the PLB at NOAA's online web-based registration database.



# How Checksum is Currently Used

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- The registration form (approved by OMB) contains a 5 digit checksum field, in order to verify the 15 hexadecimal beacon ID
- The checksum is only provided by a few manufacturers currently
- Initial Registration Database logic requiring checksum entry confused owners
- Currently, a new registration is accepted, regardless of whether the checksum value is correct, incorrect or absent. This serves to minimize owner confusion and frustration, so that the owner does not skip registration
- NOAA is finalizing a plan on what steps will be taken when a checksum value does not match the beacon ID



# Proposed Actions For Beacon Manufacturers to Implement Checksum

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- The CFR mandating checksum for most new beacons will be in effect within 18 months
- In preparation, manufacturers should consider generating a checksum value for their new beacons
- If you have any question on implementing the checksum, please contact:

Jesse Reich

[Jesse.Reich@noaa.gov](mailto:Jesse.Reich@noaa.gov)

301.817.4509



# NOAA's Business Reply Permit

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- NOAA has allowed the use of SARSAT's business reply permit by manufacturers for printing envelopes for owners to return beacon registration forms to NOAA
- Manufacturers need to print envelopes that replicate the following image
- NOAA is bearing the mailing cost of envelopes sent to NOAA
- Any questions prior to use, please call Stephen Roark at 301-817-3896

# NOAA's Business Reply Envelope Sample (Please change mailing address ASAP)

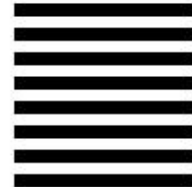


**Mail with old address will be returned to sender in 11 months**

IMPORTANT: DO NOT ENLARGE, REDUCE OR MOVE the FIM and POSTNET barcodes. They are only valid as printed!  
Special care must be taken to ensure FIM and POSTNET barcodes are actual size AND placed properly on the mail piece  
to meet both USPS regulations and automation compatibility standards.



NO POSTAGE  
NECESSARY  
IF MAILED  
IN THE  
UNITED STATES



**BUSINESS REPLY MAIL**  
FIRST-CLASS MAIL PERMIT NO.7411 SILVER SPRING, MD  
POSTAGE WILL BE PAID BY ADDRESSEE



SARSAT BEACON REGISTRATION  
NOAA  
NSOF E/SPO53  
1315 EAST WEST HWY  
SILVER SPRING MD 20910-9684



Artwork for Envelope, Business, #9, 3 7/8 x 8 7/8 in (3.875" x 8.875")  
Layout: sample BRM Envelope.lyt  
August 23, 2012



Produced by DAZzle Designer, Version 9.0.05  
(c) 1993-2009, Endicia, [www.Endicia.com](http://www.Endicia.com)  
U.S. Postal Service, Serial #



# Suggestions on How Beacon Manufacturers Can Help

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- Contact NOAA immediately when an issue arises which has a direct impact on beacon owners
  - Duplicate beacon ID encoded into beacons
  - Mislabeling of beacon IDs on forms or beacons
  - Any recalls you may have for beacons you have manufactured
- Manufacturers and Service Centers verify NOAA decal currency and remind the owner, if appropriate, to update the beacon's registration with NOAA
- Inform owners who have vessel information, tail number, MMSI, and radio call sign, encoded into beacon of the importance of recoding the beacon and updating the registration when the beacon is transferred to another vessel or aircraft

# Suggestions on How Beacon Manufacturers Can Help

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- Provide to NOAA the following (if you have not already done so):
  - Arithmetic formulas that correlate beacon IDs and serial numbers for various protocols you use
  - List of beacons you receive from an owner which you will not return back to the same owner
    - beacons serviced
    - beacons returned



# Contact Information

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**SARSAT Program Office  
NOAA Satellite Ops Facility  
Suitland, MD 20746**

**[www.sarsat.noaa.gov](http://www.sarsat.noaa.gov)**

**Apurve Mathur  
301-817-4542  
Apurve.Mathur@noaa.gov**