SARSAT Beacon Manufacturers Workshop
May 1, 2014

406 MHz Beacon Registration Database

Presented by:
Apurve Mathur, ERT, Inc.
Registration Database Lead

Beacon Registration Postal Mailing Address **Has Changed**

SARSAT Beacon Registration
NOAA
NSOF E/SPO53

1315 East-West Highway
Silver Spring, MD 20910

- The RGDB Physical Address <u>has not</u> changed

- Use the following address <u>ONLY</u> if registrations are sent by FedEx or UPS:

  SARSAT Beacon Registration
  NOAA
  NSOF E/SPO53

  4231 Suitland Road

  Suitland, MD 20746

What Will Happen to Registration Mail to Old Address?

- Registration mail sent from owners to NOAA at the 4231 Suitland Road, Suitland MD 20746 <u>will be returned</u> to the owners after August 30, 2014

Beacon Registration Postal Mailing Address Change

- NOAA has:

  - updated the beacon registration and SARSAT websites with the address change

  - updated NOAA's beacon registration forms (downloadable)

  - informed Cospas-Sarsat

  - requested beacon manufacturers update the address on registration material AND the permanent label on the beacon

  - informed other relevant entities about this change

Beacon Registration Postal Mailing Address Change

- Each beacon manufacturer should:
  - Update references to NOAA's SARSAT mailing address on its website and any printed matter they distribute to purchasers
  - Download the latest registration forms from NOAA's registration website
  - Inform all resellers and service centers of the change
  - Update any documents that contain NOAA's SARSAT mailing address
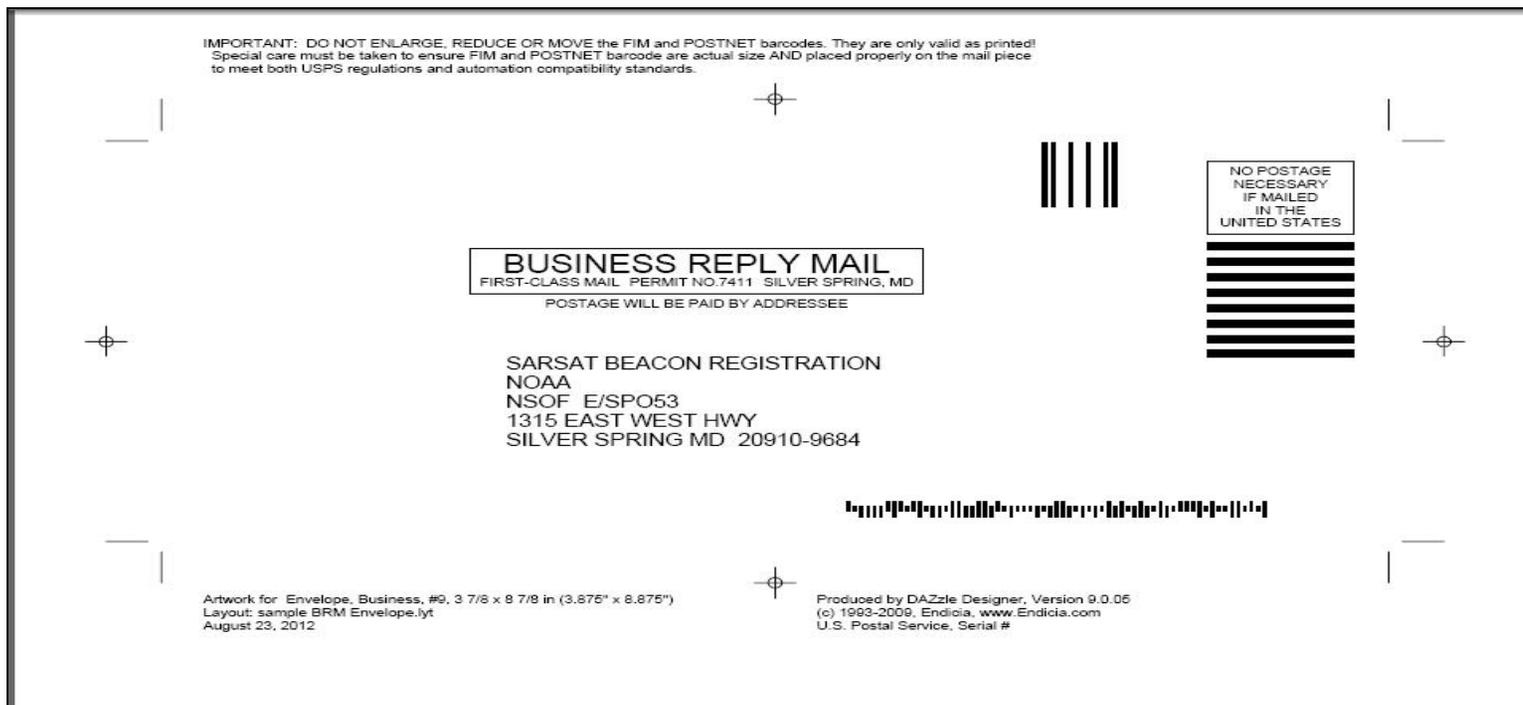
NOAA's Business Reply Permit

- NOAA allows 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 business reply envelopes (BREs) that replicate the business reply permit information as shown on the following page. Contact Apurve Mathur, RGDB Lead, for this graphical image.

- NOAA is absorbing the mailing cost of BREs sent to NOAA

NOAA's BRE Sample

- Please change mailing address ASAP if you HAVE NOT DONE SO ALREADY
  - This BRE address graphic artwork is available from NOAA

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 barcode 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
U.S. Postal Service, Serial #

Checksum Implementation

- The registration form (approved by OMB) contains a 5-digit checksum field, which is used to verify the 15-hexadecimal beacon ID

- The checksum is currently provided by only a few manufacturers

- 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

Beacon Manufacturers' Checksum Implementation

- NOAA has started the CFR process for mandating that checksum be used for most new beacons

- In preparation, NOAA requests that manufacturers start generating checksum values for their new beacons

- Refer questions on implementing the checksum to:

   Jesse Reich, SARSAT Ground System Engineer

   jesse.reich@noaa.gov

   301-817-4509

- Contact NOAA immediately when an issue arises that has a direct impact on beacon owners, such as:
  - Duplicate beacon ID encoded into beacons
  - Mislabeling of beacon IDs on forms or beacons
  - Recalls of beacons you have manufactured
- Promote online registration to increase the likelihood of the owner registering a beacon
- Ensure that the UIN label is legible and affixed to the blank registration form
- Consider ideas to make your manufacturer UIN stand out on both the beacon and the registration form

- Verify NOAA decal currency and remind the owner, if appropriate, to update the beacon's registration with NOAA, especially if a different beacon is returned to owner
- Inform owners who use non-serialized beacon coding (e.g., tail number, MMSI, and radio call sign) of the importance of recoding the beacon and updating the registration when the beacon is transferred to another vessel or aircraft
- 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
  - Beacon UINs for beacons received from an owner that will not be returned to that owner

Contact Information

- ## Apurve Mathur
  Registration Database Lead
  ERT, Inc.
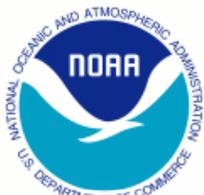 Apurve.Mathur@noaa.gov
 301-817-4542

- Registration Database Statistics

Statistics on Registration Renewals
March 2013 to March 2014

| Month/Year	Updated By Owners Through Website	Updated by NOAA	Total Registration Renewals	Percentage Updated By Owners Through Website	Percentage Updated By NOAA
Mar-13	9,884	3,059	12,943	76%	24%
Apr-13	10,328	3,155	13,483	77%	23%
May-13	11,552	3,798	15,350	75%	25%
Jun-13	10,428	3,748	14,176	74%	26%
Jul-13	9,821	3,437	13,258	74%	26%
Aug-13	8,994	2,727	11,721	77%	23%
Sep-13	9,508	2,880	12,388	77%	23%
Oct-13	8,149	2,826	10,975	74%	26%
Nov-13	7,442	3,054	10,496	71%	29%
Dec-13	8,635	2,969	11,604	74%	26%
Jan-14	10,690	3,237	13,927	77%	23%
Feb-14	9,932	2,789	12,721	78%	22%
Mar-14	10,276	3,400	13,676	75%	25%

New Registrations By Year
As of March 2014
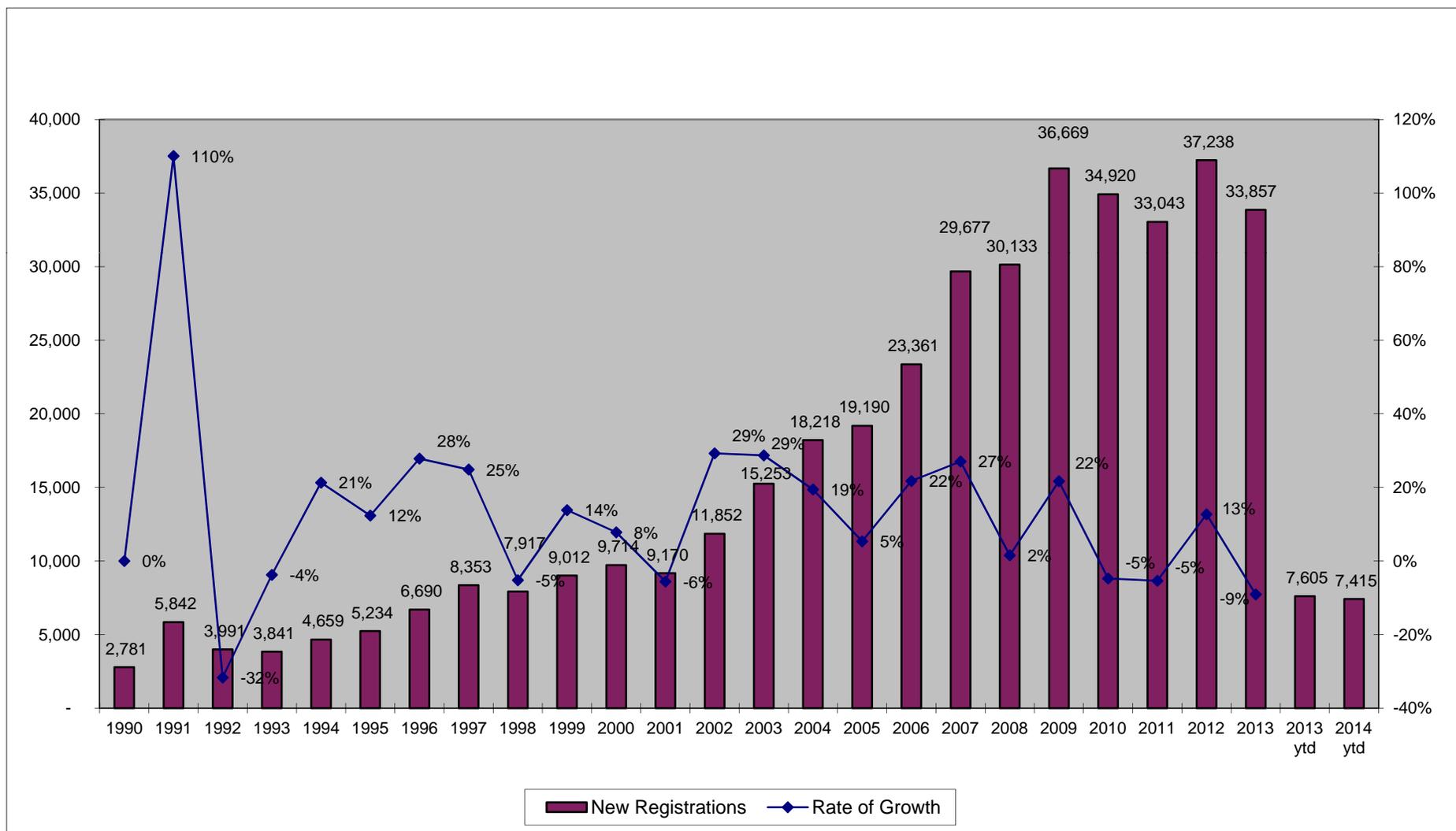
New Beacon Registrations 2001 - 2013
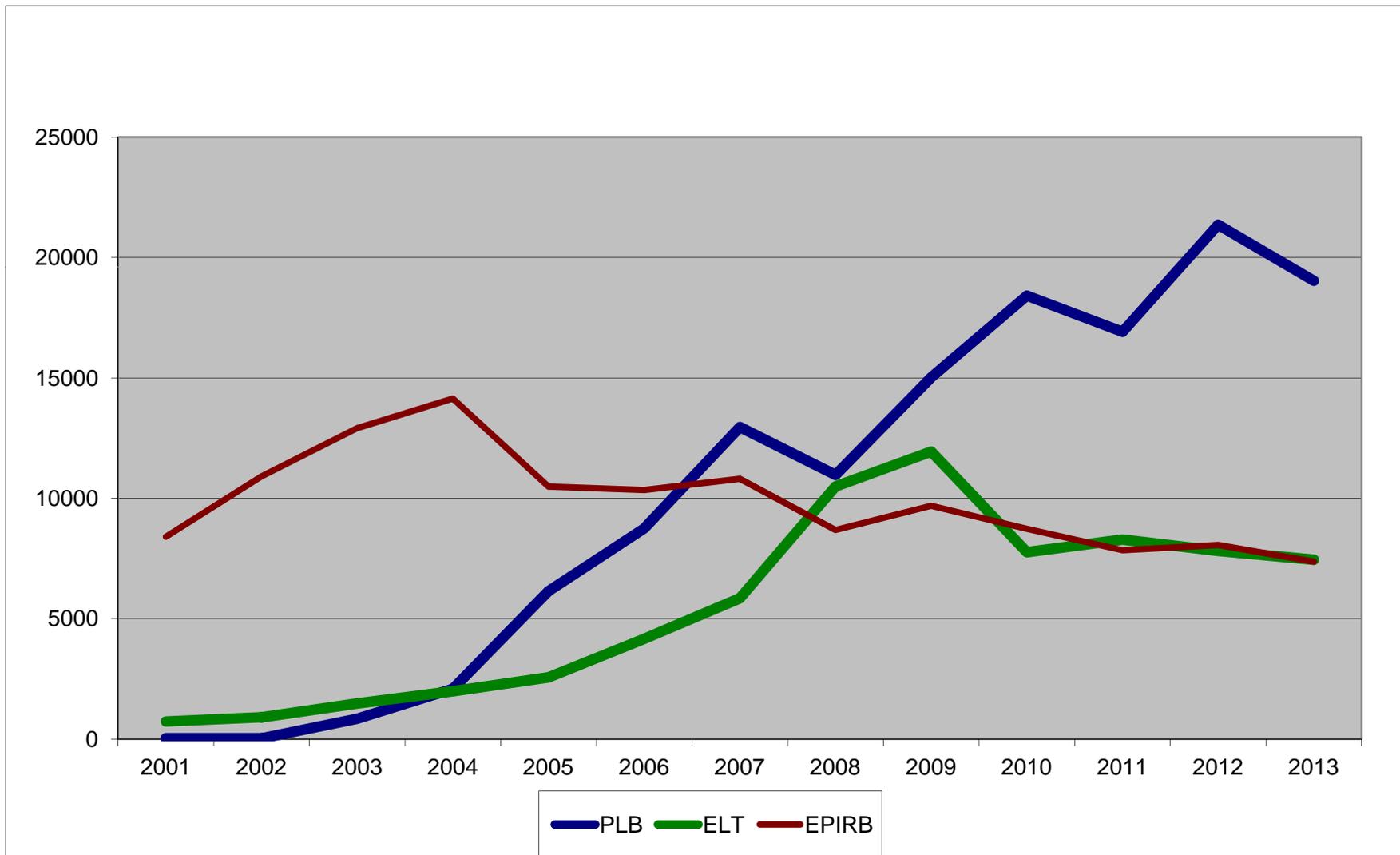
Distribution of Registered Beacons
By Beacon Type As of March 2014

72,715 ELT
18.15%

133,163 PLB
33.24%
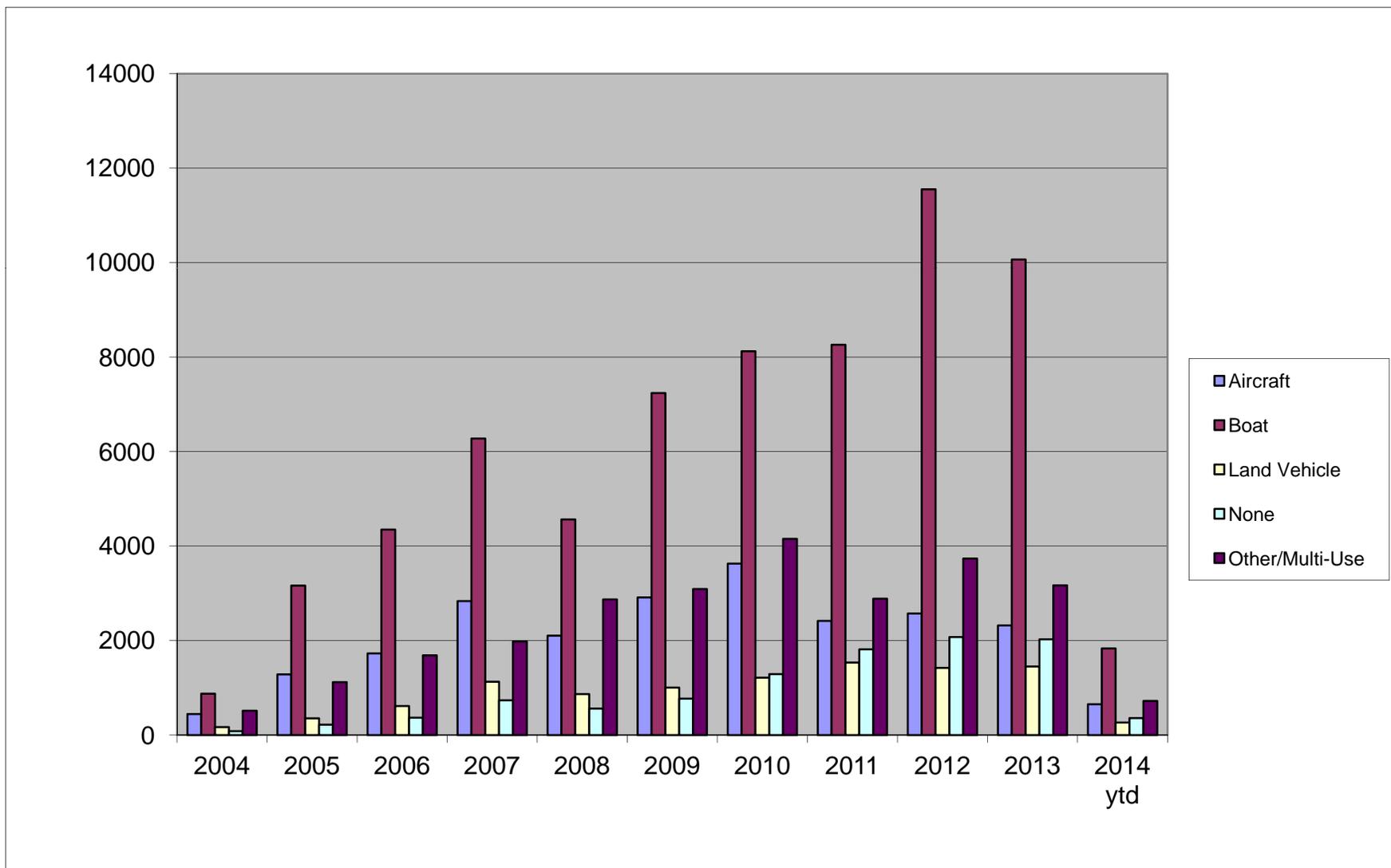
251 SSAS
0.06%

194,433 EPIRB
48.54%
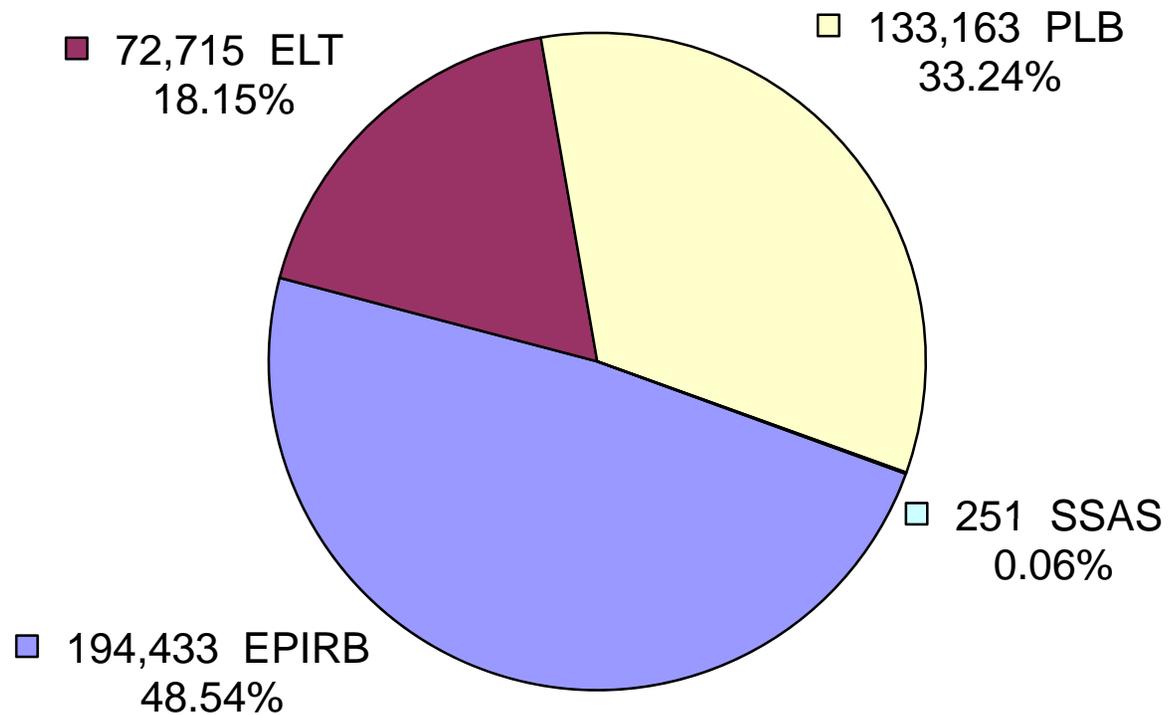
Top 5 States for PLBs By Home Address
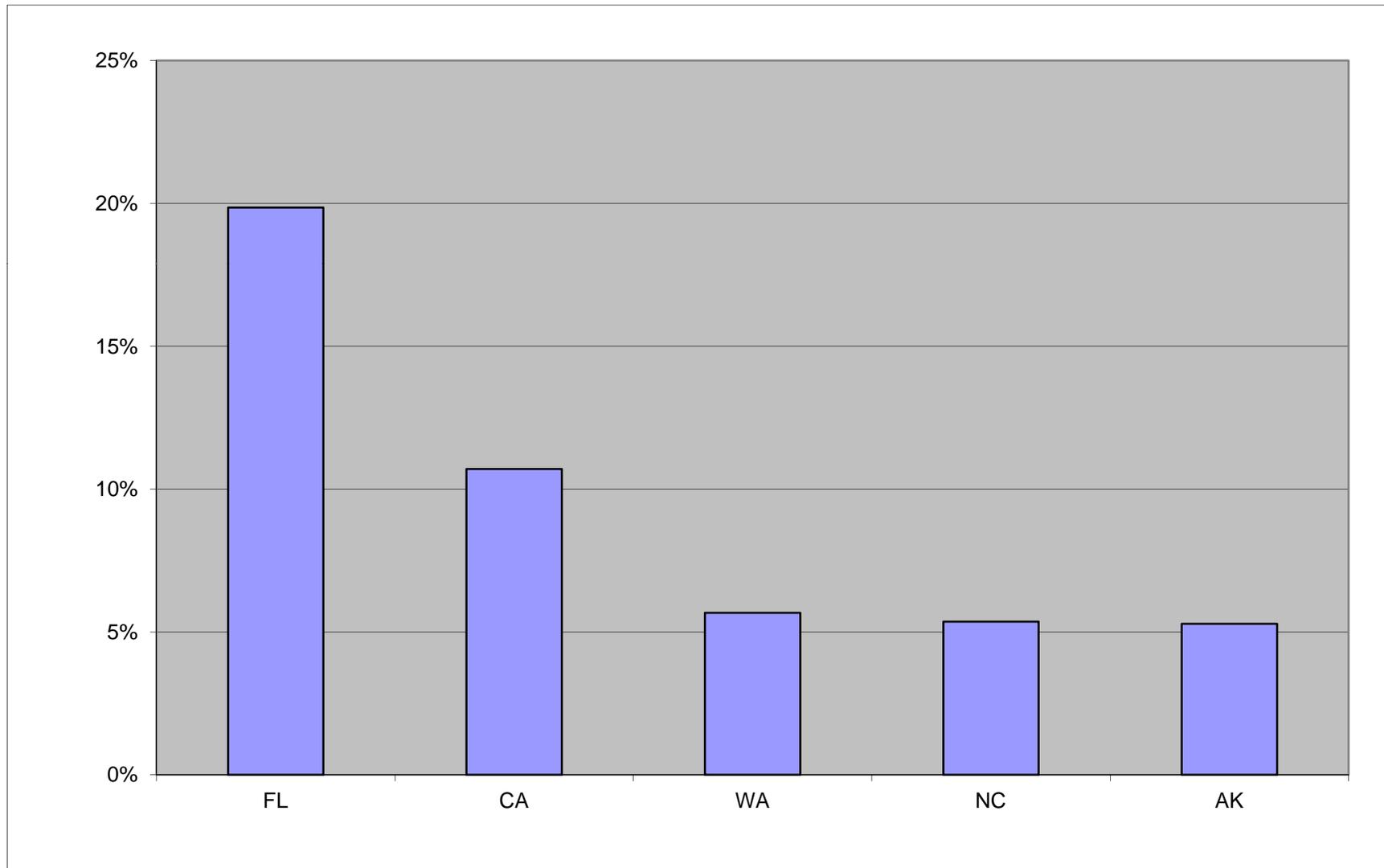
Specific Usage for PLBs

Registration Statistics Available on the SARSAT Website

- ## Registration statistics are updated on a monthly basis on the NOAA SARSAT website (www.sarsat.noaa.gov) under "Other Resources"/"SARSAT Statistics" (http://www.sarsat.noaa.gov/statistics.html

  - New Beacon Registrations By Type

    - This is a table of first-time registrations of beacons, listed by type of beacon, for each month from January 2010 through the most recent month