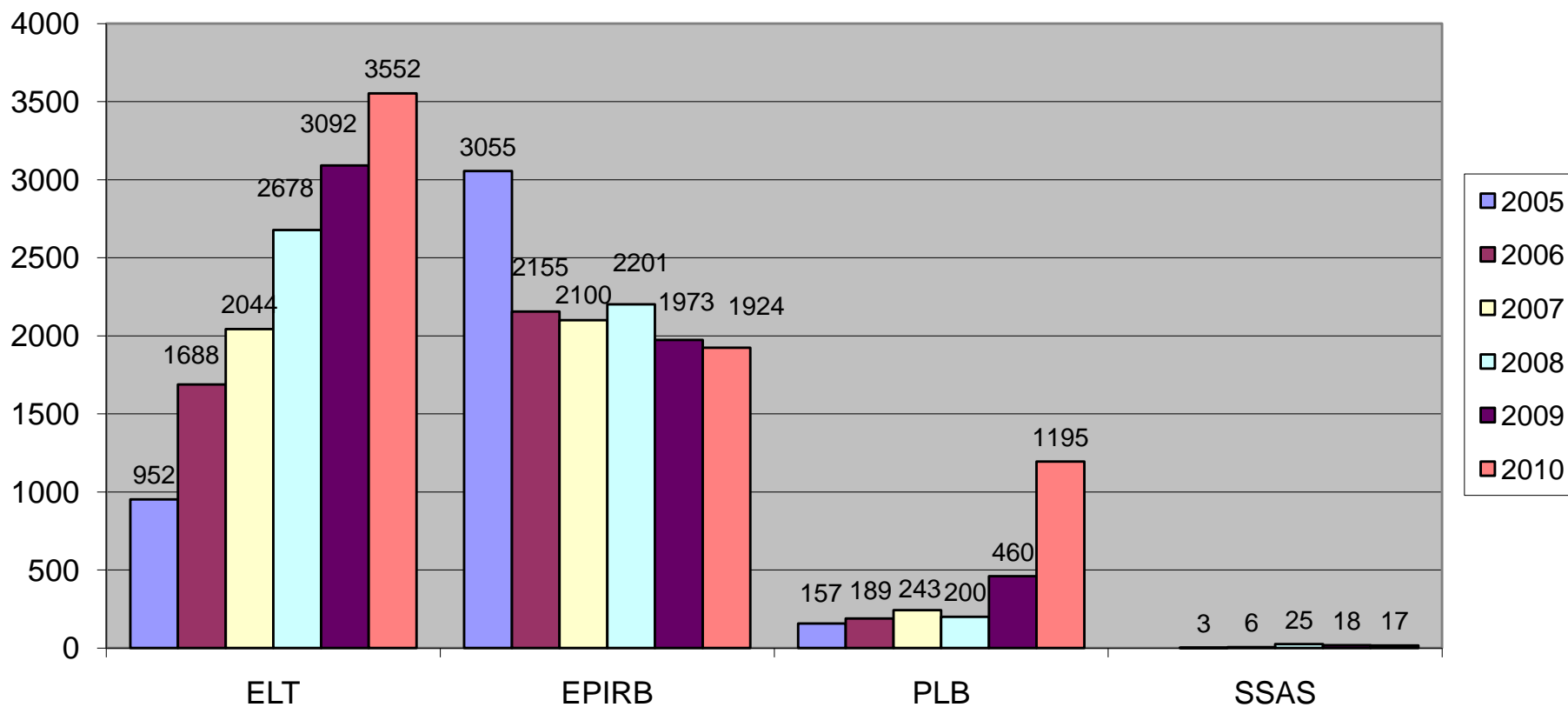


# Beacon False Alert Rate For 2010



## False Alerts By Beacon Registration Type



# Beacon False Alert Rate For 2010



## False Alert Rate By Beacon Type

(Number of False Alerts/Estimated Beacon Population)

EPIRB	1.18%
ELT	6.45%
PLB	0.77%
SSAS	1.79%



# Beacon False Alert Rate 2006-2010

## False Alert Rate By Beacon Type vs. Registrations By Beacon Type

### ELTs

	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
False Alerts	42%	47%	52%	56%	53%
Registrations	8%	10%	13%	16%	17%

### EPIRBs

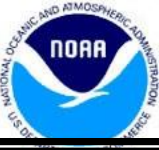
	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
False Alerts	53%	48%	43%	36%	29%
Registrations	81%	74%	68%	62%	58%

### PLBs

	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>
False Alerts	5%	6%	4%	8%	18%
Registrations	11%	16%	19%	22%	26%

# Beacon False Alert Rate

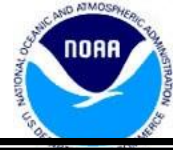
False Alert Rate = False Alerts / Estimated  
Beacon Population By Manufacturer and Model



Beacon Type	Model Number	2006	2007	2008	2009	2010
ELT	Model 74				28.05%	27.07%
ELT	Model 78				18.68%	14.43%
ELT	Model 61		16.45%	7.84%	6.82%	8.50%
ELT	Model 31	10.10%	7.36%	4.91%	11.00%	8.16%
ELT	Model 53	14.50%	16.80%	7.06%	6.08%	7.31%
ELT	Model 77				2.90%	6.36%
ELT	Model 2	7.08%	8.86%	6.14%	4.01%	5.77%
ELT	Model 76				4.58%	5.34%
ELT	Model 1	13.00%	11.89%	9.50%	7.91%	5.11%
ELT	Model 3	7.74%	7.08%	6.73%	5.55%	5.04%
ELT	Model 68			3.91%	6.13%	4.73%
ELT	Model 70			0.00%	4.16%	4.23%
ELT	Model 69			5.08%	5.34%	3.96%
ELT	Model 30	11.14%		4.95%	3.20%	3.91%
ELT	Model 75				4.65%	3.81%
ELT	Model 65		3.33%	3.55%	3.81%	3.66%
ELT	Model 55	0.00%	0.42%	1.77%	2.71%	2.69%
EPIRB	Model 13	3.08%	2.71%	3.82%	3.33%	2.52%
ELT	Model 51	11.00%	3.48%	3.40%	2.93%	2.36%
EPIRB	Model 26	1.36%	1.51%	2.10%	2.07%	2.06%
PLB	Model 42	0.40%	1.40%	1.12%	0.95%	1.93%
ELT	Model 4	3.02%	3.42%	2.73%	3.02%	1.90%
EPIRB	Model 6	2.51%	2.07%	3.49%	1.74%	1.89%
EPIRB	Model 10	1.74%	1.74%	1.44%	1.65%	1.81%
EPIRB	Model 5	2.95%	2.68%	2.01%	1.53%	1.68%
ELT	Model 54	1.04%	0.05%	0.51%	1.44%	1.64%
EPIRB	Model 33	2.53%	2.45%	1.29%	1.44%	1.41%
EPIRB	Model 64		0.26%	1.50%	1.46%	1.28%
ELT	Model 39	0.45%	0.49%	0.40%	0.48%	1.25%
EPIRB	Model 27	1.36%	1.53%	1.09%	1.38%	1.21%
EPIRB	Model 7	1.79%	1.97%	1.60%	1.37%	1.20%
EPIRB	Model 19	1.22%	1.13%	1.45%	1.14%	1.19%
EPIRB	Model 11	1.29%	0.96%	0.86%	0.91%	1.17%
EPIRB	Model 32	2.15%	1.49%	0.89%	0.90%	0.88%
PLB	Model 57	0.00%	0.60%	0.38%	0.00%	0.82%
EPIRB	Model 79				0.99%	0.81%
EPIRB	Model 20	0.76%	0.70%	0.76%	0.78%	0.79%
EPIRB	Model 43	1.42%	1.29%	0.43%	0.00%	0.78%
PLB	Model 46	0.31%	0.35%	0.18%	0.83%	0.76%
EPIRB	Model 34	1.55%	1.06%	1.32%	1.11%	0.74%
EPIRB	Model 24	0.96%	0.71%	1.23%	2.00%	0.74%
EPIRB	Model 15	1.65%	1.08%	1.11%	1.13%	0.74%

# Beacon False Alert Rate

False Alert Rate = False Alerts / Estimated  
Beacon Population By Manufacturer and Model



Beacon Type	Model Number	2006	2007	2008	2009	2010
PLB	Model 86					0.72%
EPIRB	Model 8	1.67%	1.71%	1.35%	1.32%	0.71%
EPIRB	Model 18	1.00%	0.36%	1.10%	0.16%	0.67%
EPIRB	Model 17	1.60%	0.79%	0.65%	0.79%	0.65%
EPIRB	Model 21	1.22%	0.60%	1.22%	2.48%	0.61%
PLB	Model 81				0.10%	0.60%
PLB	Model 72			0.00%	0.00%	0.60%
PLB	Model 73			0.12%	5.55%	0.57%
EPIRB	Model 60		0.31%	0.42%	0.62%	0.56%
PLB	Model 85					0.55%
EPIRB	Model 9	0.78%	1.03%	0.53%	1.08%	0.53%
EPIRB	Model 82					0.51%
EPIRB	Model 23	0.36%	0.47%	0.37%	0.25%	0.49%
PLB	Model 71			0.00%	0.10%	0.49%
EPIRB	Model 44	0.90%	0.00%	0.00%	0.00%	0.47%
PLB	Model 58		0.28%	0.13%	0.58%	0.42%
EPIRB	Model 28	0.48%	0.59%	0.64%	0.57%	0.41%
ELT	Model 52	0.68%	0.16%	0.27%	0.23%	0.40%
EPIRB	Model 36	0.54%	2.52%	2.50%	0.76%	0.39%
ELT	Model 48	0.00%	0.12%	0.24%	0.51%	0.38%
EPIRB	Model 16	1.11%	0.44%	0.42%	0.59%	0.34%
EPIRB	Model 66			0.00%	0.08%	0.30%
PLB	Model 41	0.23%	0.55%	0.26%	0.42%	0.25%
PLB	Model 12	1.25%	1.18%	0.20%	0.43%	0.24%
EPIRB	Model 25	0.30%	0.97%	0.62%	0.47%	0.23%
EPIRB	Model 22	1.07%	0.42%	0.22%	0.45%	0.22%
EPIRB	Model 37	1.13%	1.03%	0.53%	1.14%	0.20%
ELT	Model 40	0.38%	0.24%	0.13%	0.14%	0.14%
ELT	Model 50	0.12%	0.27%	0.39%	0.35%	0.12%
PLB	Model 80				0.14%	0.12%
PLB	Model 47	0.00%	0.09%	0.05%	0.00%	0.10%
PLB	Model 63		0.00%	0.05%	0.05%	0.09%
EPIRB	Model 29	0.11%	0.10%	0.07%	0.10%	0.07%
EPIRB/ELT	Model 16					0.00%
EPIRB/PLB	Model 11					0.00%
EPIRB	Model 59		0.00%	1.47%	0.00%	0.00%
ELT	Model 67			0.00%	0.46%	0.00%
EPIRB	Model 14	1.64%	0.00%	1.69%	0.00%	0.00%
EPIRB	Model 38	0.00%	0.00%	0.00%	0.00%	0.00%
EPIRB	Model 49	0.18%	0.00%	0.00%	0.00%	0.00%
EPIRB	Model 83					0.00%
EPIRB	Model 62		0.00%	0.00%	0.12%	0.00%
PLB	Model 56	0.00%	0.00%	0.37%	0.00%	0.00%
PLB	Model 45	1.31%	0.00%	0.00%	0.00%	0.00%
PLB	Model 35	0.65%	0.00%	0.00%	0.00%	0.00%
EPIRB	Model 84					0.00%



# Beacon Problems

- Many beacons are Identified with frequent activations from same beacon Id caused by:
  - ELT installation
  - User/Owner testing
  - Manufacturers coding beacons with a default Id that is transmitted when the beacon malfunctions (how is malfunctioning beacon identified?)
  - SASS circuit testing between switch and beacon