NOAA Report

NOAA-SARSAT Status

Status of Operational Spacecraft

S6 (NOAA-14)	Decommissioned in June 2007
S7 (NOAA-15)	FOC (Limited 243 MHz service)
S8 (NOAA-16)	FOC (Limited 121.5 MHz service, no 243 MHz service)
S9 (NOAA-17)	FOC (In similar orbit plane to S11)
S10 (NOAA-18)	FOC
S11 (MetOp A)	FOC (The SARP-3 instrument has an intermittent software issue which causes a memory reset about every 10 days.)

GOES-9:	Decommissioned in May 2007
GOES-10:	Positioned at 60W to support Brazil
GOES-11 (West):	Positioned at 135W and operating as GOES-West. Due to spacecraft battery issues, SARR is turned off for two hours each day during the solar eclipse seasons (MAR/APR & again in SEP/OCT).
GOES-12 (East):	Positioned at 75W and operating as GOES-East.
GOES-13:	Positioned at 105W with SARR payloads turned-on to support GOES-11 during solar eclipse periods.

NOAA-SARSAT Status

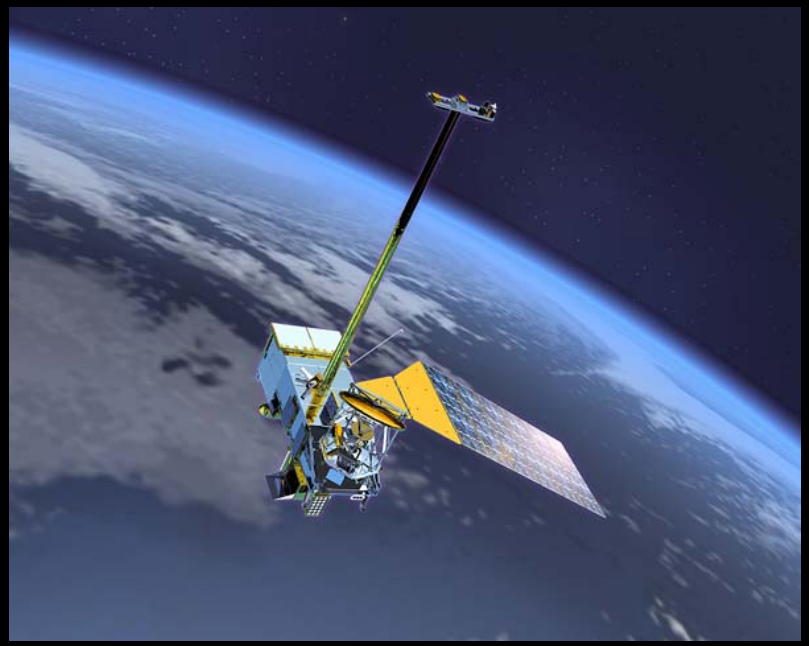
Future SARSAT spacecraft launches (appox.)

LEOSAR

NOAA N':	Feb 2009 (Last POES generation spacecraft)
MetOp B:	Jan 2010
NPOESS C1:	2013
NPOESS C2:	2016

GEOSAR

GOES-O:	Nov 2008
GOES-P:	Oct 2009
GOES R:	Sep 2012



NPOESS

NOAA-SARSAT Status

Status of Ground Segment

LEOLUTs

AK 1 & 2 (NOAA CDA Station - Fairbanks, Alaska) - operational

CA 1 & 2 (Vandenberg AFB, California) - operational

FL 1 & 2 (USCG Commsta Miami, Florida) - operational

GU 1 & 2 (Anderson AFB, Guam) - operational

HI 1 & 2 (USCG Commsta Honolulu, Hawaii) - operational

MD 1 & 2 (NSOF – Suitland, Maryland) – operational

GEOLUT

GSE (NSOF – Suitland, Maryland) – operational

MEOLUT

NOAA has begun development activities in 2008 for a MEOLUT capability to be installed in Hawaii

NOAA-SARSAT Status

Status of U.S. Mission Control Center

USMCC system availability: 99.933% available for 2007 (6.9 hours downtime)
99.9% available for 1Q08

NOAA-SARSAT Status

Status of U.S. Mission Control Center (USMCC)

USMCC to move its backup location to NOAA Satellite Wallops Island, VA facility in May 2008

NOAA-SARSAT Status

Status of U.S. Mission Control Center

Number of 406 MHz beacon activations reported to RCCs/SPOCs within the USMCC service area

Alert Classifications	EPIRB	ELT	PLB	Sub-Total	Total
Distress alerts	107	8	44		159
False alerts					1,140
Unfiltered processing anomalies				0	
Operational false alerts (beacon activations)					
Beacon mishandling	205	173	27	405	
Beacon malfunction	108	40	6	154	
Mounting failure	31	0	0	31	
Environmental conditions	49	0	0	49	
Unknown	245	234	22	501	
Undetermined	431	273	42		746
Total	1,176	728	141		2,045

NOAA-SARSAT Status

Status of U.S. Mission Control Center

Number of 121.5/243 MHz beacon activations reported to RCCs/SPOCs within the USMCC service area

Alert Classifications	EPIRB	ELT	PLB	Sub-Total	Total
Distress alerts	169	23	0		192
False alerts					1,975
Unfiltered processing anomalies				0	
Interference				0	
Operational false alerts (beacon activations)					
Beacon mishandling	388	45	1	434	
Beacon malfunction	94	7	0	101	
Mounting failure	5	1	0	6	
Environmental conditions	27	1	0	28	
Unknown	1,366	39	1	1,406	
Undetermined	4,315	70	0		4,385
Total	6,364	186	2		6,552

SARSAT Saves

In 2007 a total of 353 lives were rescued in the U.S. SRR as a result of the Cospas-Sarsat System:

- **235 lives rescued via EPIRBs**
- **33 lives rescued via ELTs (all 121.5!)**
- **88 lives rescued via PLB**

Continues the recent upward trend in the number of lives saved:

2006: 272

2005: 222

2004: 260

2003: 224

2002: 171

2001: 166

<u>2007 Breakdown by State (Top 3):</u>

Alaska – 73 lives rescued in 34 cases

Florida – 73 lives rescued in 23 cases

North Carolina- 16 lives rescued in 5 cases

SARSAT Saves

Rescues in the US SRR:

As of May 2, 2008

Total: 117 lives saved in 39 events

EPIRB – 89 lives saved in 21 events

ELT – 3 lives saved in 3 events

PLB – 25 lives saved in 15 events

There were 115 people rescued at this time last year.

5,865 people have been rescued in the United States since 1982

406 MHz Beacon Population

Registered Beacons in the U.S. Beacon Registration Database (RGDB)…

…to be provided by Mr. Apurve Mathur

U.S. Beacon Population Forecast

Year	2010		2015	
Frequency / Beacons	406 MHz	121.5 MHz	406 MHz	121.5 MHz
ELTs	57,000	298,000	108,000	259,000
EPIRBs	182,000	5,000	222,000	1500
PLBs	80,000	0	125,000	0
SSAS beacons	500		1000	

121.5/243 MHz Termination

631

268

days to go…

Personnel Changes

- Ajay Mehta has been promoted to Deputy Director of NOAA's Office of Satellite Data Processing & Distribution (OSDPD)

Chris O'Connors joins the SARSAT team as the new Program Manager

Questions and Contact Information

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