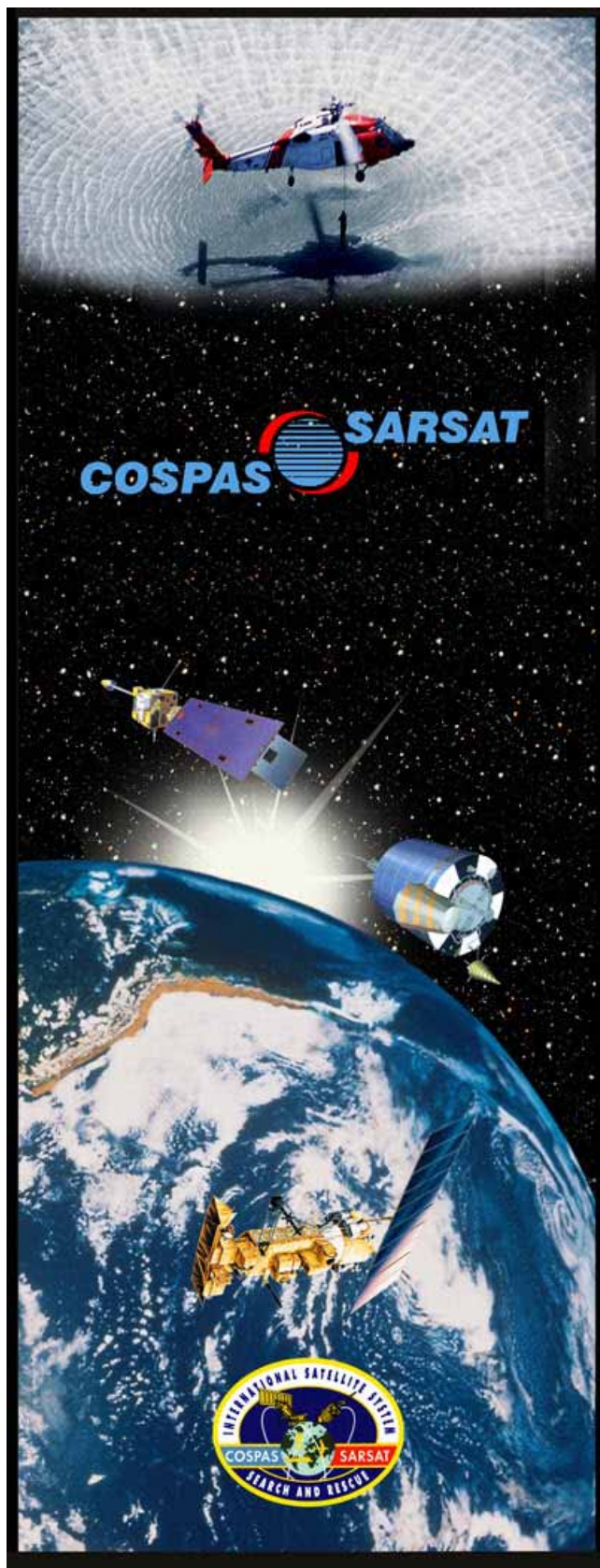




COSPAS-SARSAT SYSTEM DATA

No.36
December 2010



Published by the Cospas-Sarsat Secretariat

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TABLE OF CONTENTS

	Page
Summary Status	1

LIST OF FIGURES

Figure 1	406 MHz Beacon Population Trend	1
Figure 2	Type of SAR Events Assisted by Cospas-Sarsat (January - December 2009)	2
Figure 3	Persons Rescued by Type of SAR Event Assisted by Cospas-Sarsat (January - December 2009)	2
Figure 4	Number SAR Events and Persons Rescued with the Assistance of Cospas-Sarsat Alert Data (January 1994 - December 2009)	2
Figure 5	Satellite Visibility Area of Cospas-Sarsat Operational LEOLUTs (December 2010).....	6
Figure 6	GEOSAR Satellite Coverage and GEOLUTs (December 2010).....	7
Figure 7	Basic Concept of the Cospas-Sarsat System.....	20

LIST OF TABLES

Table I	Cospas-Sarsat Participating Countries and Organisations.....	3
Table II	LEOSAR Spacecraft Availability (December 2010)	4
Table III	LEOSAR Space Segment Instrument Status (December 2010)	4
Table IV	GEOSAR Spacecraft Availability (December 2010).....	4
Table V	LEOSAR Ground Segment Status (December 2010)	5
Table VI	GEOSAR Ground Segment Status (December 2010).....	7
Table VII	Cospas-Sarsat Type Approved 406 MHz Beacons Listed by Manufacturer	8
Table VIII	Cospas-Sarsat Documents.....	16

SUMMARY STATUS

(December 2010)

PARTICIPANTS

Parties to the Cospas-Sarsat Agreement:	4
Ground Segment Providers:	26
User States:	11
Participating Organisations:	2
Total number of Participants:	43

SPACE SEGMENT

LEOSAR system:	6 satellites in polar orbit
GEOSAR system:	5 satellites in geostationary orbit

GROUND SEGMENT

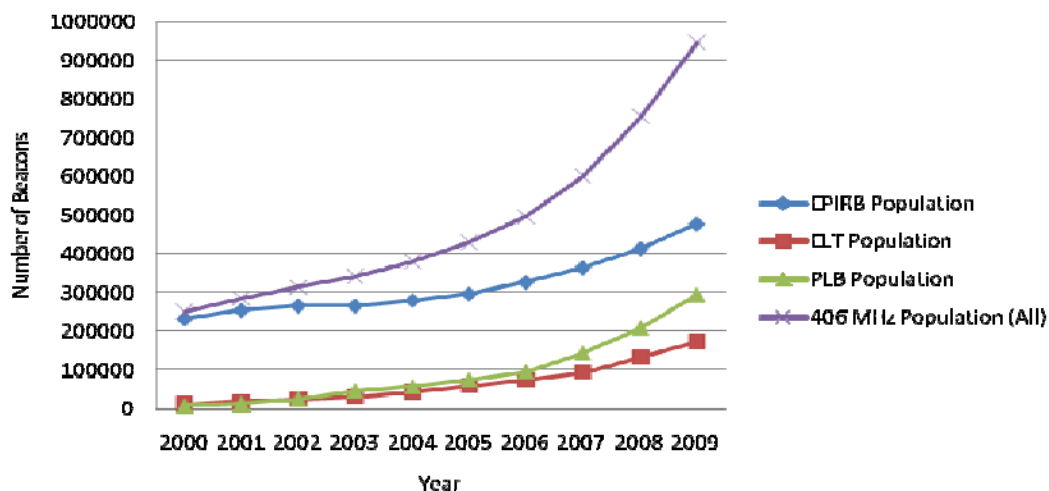
30	Mission Control Centres (MCCs)
57	Local User Terminals (LEOLUTs) in the LEOSAR system
20	Local User Terminals (GEOLUTs) in the GEOSAR system

All co-located LUTs are counted as two (with the exception of the French LEOLUTs, which operate as one LUT).

NUMBER OF 406 MHz DISTRESS BEACONS WORLDWIDE (end of 2009)

Beacon population estimated:	over 945,000
Beacon population registered:	over 700,000

Figure 1: 406 MHz Beacon Population Trend



SYSTEM OPERATIONS (end of 2009)

From January to December 2009 , the Cospas-Sarsat System provided assistance in rescuing 1,596 persons in 478 SAR events .	Type of distress	Persons rescued	SAR events
	Aviation	271	66
	Maritime	1,101	281
	Land	224	131
	TOTAL	1,596	478

The 406 MHz system was used in 468 of these events (1,572 persons rescued) and the 121.5 MHz system was used in the other 10 SAR events (24 persons rescued).

From **September 1982 to December 2009**, the Cospas-Sarsat System provided assistance in **rescuing at least 28,375 persons in 7,746 SAR events**.

Note: On 1 February 2009, the Cospas-Sarsat System ceased satellite processing of 121.5/243 MHz distress signals.

Figure 2: Type of SAR Events Assisted by Cospas-Sarsat (January - December 2009)

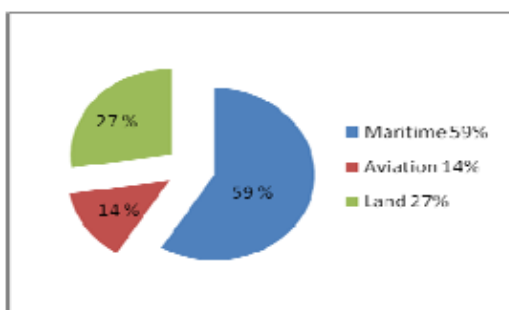


Figure 3: Persons Rescued by Type of SAR Event Assisted by Cospas-Sarsat (January - December 2009)

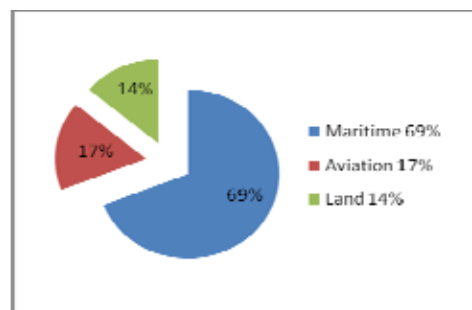
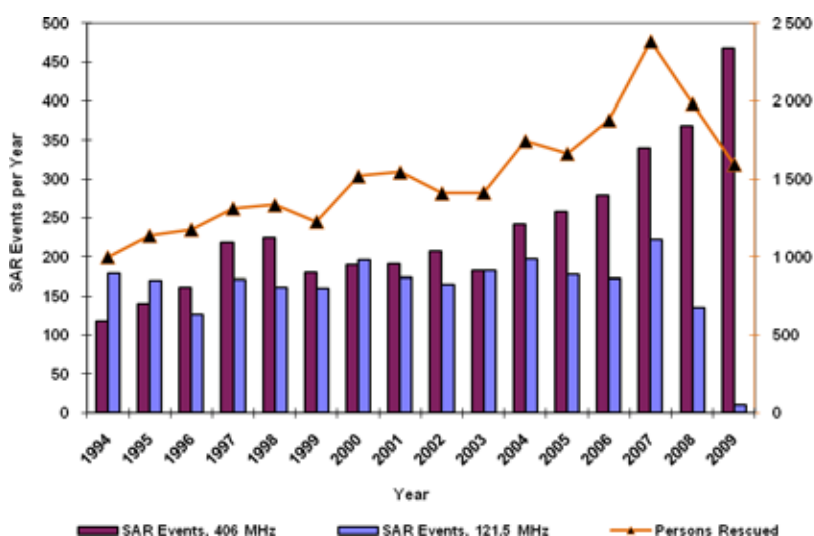


Figure 4: Number of SAR Events and Persons Rescued with the Assistance of Cospas-Sarsat Alert Data (January 1994 - December 2009)



Note:

One possible explanation of the drop in the number of SAR events and persons rescued in 2009 is the phase-out of 121.5 MHz alerting services in February 2009.

As at 1 February 2009 the 121.5 MHz beacon population was estimated at nearly 500,000 beacons. Therefore, the termination of 121.5 MHz processing resulted in a drop of the beacon population by about 30%.

Table I - Cospas-Sarsat Participating Countries and Organisations

Participant	Agency	Status
Algeria	Search and Rescue Services, Ministry of National Defense	Ground Segment Provider
Argentina	Maritime Communications Agency	Ground Segment Provider
Australia	Australian Maritime Safety Authority (AMSA)	Ground Segment Provider
Brazil	Air Space Control Department (DECEA)	Ground Segment Provider
Canada	National Search and Rescue Secretariat (NSS)	Party-Space Segment Provider
Chile	Search and Rescue Service of the Chilean Air Force	Ground Segment Provider
China (P.R.of)	Maritime Safety Administration	Ground Segment Provider
Cyprus	Larnaca Joint Rescue Co-ordination Centre (JRCC)	User State
Denmark	Civil Aviation Administration (Statens Luftfartsvesen)	User State
Finland	Ministry of Interior, Finnish Border Guard	User State
France	National Centre of Space Research (CNES)	Party-Space Segment Provider
Germany	Ministry of Transport, Aeronautical Department	User State
Greece	Ministry of Civil Protection	Ground Segment Provider
Hong Kong, China	Hong Kong Marine Department	Ground Segment Operator
India	Indian Space Research Organization (ISRO)	Space/Ground Segment Provider
Indonesia	National SAR Agency (BASARNAS)	Ground Segment Provider
Italy	Department of Civil Protection	Ground Segment Provider
ITDC	Chunghwa Telecom Co. Ltd., Chinese Taipei	Ground Segment Operator
Japan	Japan Coast Guard	Ground Segment Provider
Korea (Rep.of)	Korea Coast Guard	Ground Segment Provider
Madagascar	Search and Rescue Co-ordination Centre	User State
Netherlands (The)	Netherlands Coastguard	User State
New Zealand	Rescue Coordination Centre New Zealand (RCCNZ)	Ground Segment Provider
Nigeria	National Emergency Management Agency	Ground Segment Provider
Norway	Ministry of Justice	Ground Segment Provider
Pakistan	Space and Upper Atmosphere Research Commission (SUPARCO)	Ground Segment Provider
Peru	Direction-General of Captaincy and Coastguard	Ground Segment Provider
Poland	Civil Aviation Office	User State
Russian Federation	State Enterprise Morsviasputnik	Party-Space Segment Provider
Saudi Arabia	General Authority of Civil Aviation (Directorate of Air Traffic Services)	Ground Segment Provider
Serbia	Civil Aviation Directorate	User State
Singapore	Civil Aviation Authority of Singapore	Ground Segment Provider
South Africa	South African Maritime Safety Authority (SAMSA)	Ground Segment Provider
Spain	National Institute of Aerospace Engineering (INTA)	Ground Segment Provider
Sweden	Swedish Civil Contingencies Agency (MSB)	User State
Switzerland	Federal Office of Civil Aviation	User State
Thailand	Department of Aviation	Ground Segment Provider
Tunisia	Ministry of Transport (DGAC)	User State
Turkey	General Directorate of Maritime Transportation	Ground Segment Provider
UAE	Telecommunications Regulatory Authority (TRA)	Ground Segment Provider
UK	Maritime and Coastguard Agency, Department of Transport	Ground Segment Provider
USA	National Oceanic and Atmospheric Administration (NOAA)	Party-Space Segment Provider
Vietnam	Vietnam Maritime Administration (VINAMARINE), Ministry of Transport	Ground Segment Provider

Table II - LEOSAR Spacecraft Availability (December 2010)

Cospas-Sarsat Payload	Spacecraft	Launch Date	Status
Sarsat-7	NOAA-15	May 1998	In operation
Sarsat-8	NOAA-16	September 2000	In operation
Sarsat-9	NOAA-17	June 2002	In operation
Sarsat-10	NOAA-18	May 2005	In operation
Sarsat-11	METOP-A	October 2006	In operation
Sarsat-12	NOAA-N'	February 2009	In operation
Sarsat-13	METOP-B	Projected 2012	-
Cospas-13	MKA-N1	Projected 2013	-
Cospas-14	MKA-N2	Projected 2014	-

Table III - LEOSAR Space Segment Instrument Status (December 2010)

Cospas-Sarsat Payload	SAR Processor (SARP)		
	Global Mode	Local Mode	SAR Repeater (SARR)
Sarsat-7	O	O	O
Sarsat-8	O	O	O
Sarsat-9	O	O	O
Sarsat-10	O	O	O
Sarsat-11	O	O	O
Sarsat-12	O	O	O

Note: O: Operational

Table IV - GEOSAR Spacecraft Availability (December 2010)

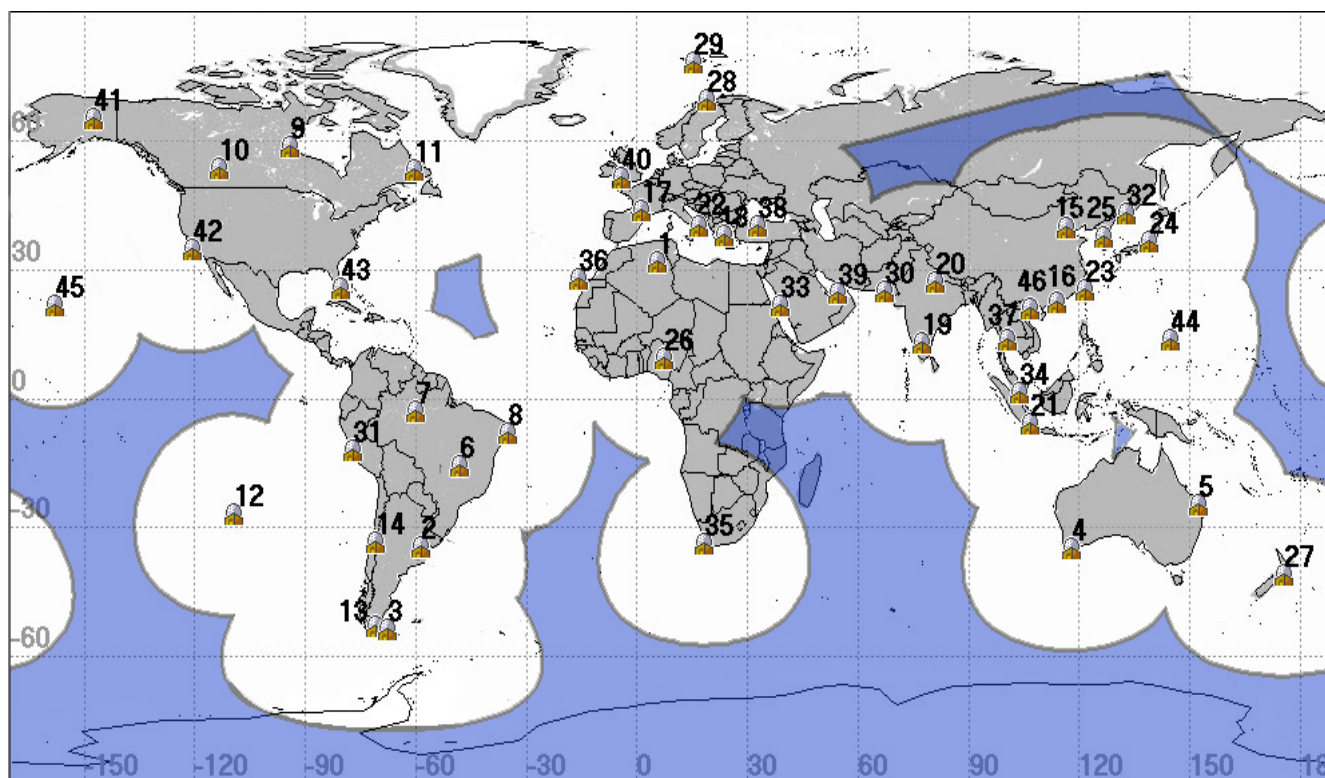
Spacecraft	Launch Date	Position	Status
GOES-11 (West)	May 2000	135° W	In operation
GOES-12	July 2001	60° W	In-orbit spare
GOES-13 (East)	May 2006	75° W	In operation
GOES-14	June 2009	105° W	In-orbit spare
GOES-15	March 2010	89.5° W	In-orbit spare
GOES-16	2015	-	Projected
GOES-17	2016	-	Projected
INSAT-3A	April 2003	93.5° E	In operation
INSAT-3D	2011	83.5° E	Projected
MSG-1	August 2002	9.5° E	In operation
MSG-2	December 2005	0°	In operation
MSG-3	2013	-	Projected
MSG-4	2014	-	Projected
Electro-L No.1	end of 2010	76° E	Projected
Luch-5A	2011	14.5° W	Projected
Electro-L No.2	2012	16° W	Projected

Table V - LEOSAR Ground Segment Status (December 2010)

Participant	MCC			LEOLUT		
	Designator	Location	Status	Location	SARP	SARR
Algeria	ALMCC	Algiers	O	Ouargla Algiers	O N	O N
Argentina	ARMCC	El Palomar	O	El Palomar Rio Grande	O O	O O
Australia	AUMCC	Canberra	O	Albany Bundaberg	O O	O O
Brazil	BRMCC	Brasilia	O	Brasilia Manaus Recife	O O O	O O O
Canada	CMCC	Trenton	O	Churchill Edmonton Goose Bay	O O O	O O O
Chile	CHMCC	Santiago	O	Easter Island Punta Arenas Santiago	O O O	O O O
China (P.R.of)	CNMCC	Beijing	O	Beijing (1) Beijing (2)	O O	O O
France	FMCC	Toulouse	O	Toulouse (1) Toulouse (2)	O O	O O
Greece	GRMCC	Athens	O	Penteli	O	O
Hong Kong, China	HKMCC	Hong Kong	O	Hong Kong (1) Hong Kong (2)	O O	O O
India	INMCC	Bangalore	O	Bangalore Lucknow	O O	O O
Indonesia	IDMCC	Jakarta	O	Jakarta	O	O
Italy	ITMCC	Bari	O	Bari	O	O
ITDC	TAMCC	Taipei	O	Keelung (1) Keelung (2)	O O	O O
Japan	JAMCC	Tokyo	O	Gunma	O	O
Korea (Rep. of)	KOMCC	Incheon	O	Incheon	O	O
New Zealand*	-	-	-	Wellington	O	O
Nigeria**	NIMCC	Abuja	N	Abuja	O	O
Norway	NMCC	Bodo	O	Tromsø Spitsbergen	O O	O O
Pakistan	PAMCC	Karachi	O	Karachi	O	O
Peru	PEMCC	Callao	O	Callao	O	O
Russia	CMC	Moscow	O	Moscow Nakhodka	UD O	UD O
Saudi Arabia	SAMCC	Jeddah	O	Jeddah (1) Jeddah (2)	O O	O O
Singapore	SIMCC	Singapore	O	Singapore	O	O
South Africa	ASMCC	Cape Town	O	Cape Town	O	O
Spain	SPMCC	Maspalomas	O	Maspalomas	O	O
Thailand	THMCC	Bangkok	O	Bangkok (1) Bangkok (2)	O O	O O
Turkey	TRMCC	Ankara	O	Ankara (1) Ankara (2)	O O	O O
UAE	AEMCC	Abu Dhabi	O	Abu Dhabi	O	O
UK	UKMCC	Kinloss	O	Combe Martin	O	O
USA	USMCC	Suitland	O	Alaska (1) Alaska (2) California (1) California (2) Florida (1) Florida (2) Guam (1) Guam (2) Hawaii (1) Hawaii (2)	O O O O O O O O O O	O O O O O O O O O O
Vietnam	VNMCC	Haiphong	O	Haiphong	O	O

Notes:
 N Not operational
 O Operational
 SARP SAR processor (provides the local and global mode coverage)
 SARR SAR repeater (provides the local mode coverage only)
 UD Under development
 * The New Zealand LEOLUT is directly connected to the Australian MCC (AUMCC).
 ** NIMCC has been backed-up by SPMCC since October 2009.

**Figure 5: Satellite Visibility Area of Cospas-Sarsat Operational LEOLUTs
(December 2010)**



Notes: White area shows the satellite/LEOLUT visibility area.
In the 406 MHz LEOSAR SARP global mode, LEOLUTs receive and process data from distress beacons transmitting from anywhere in the world.

LUTs:

1 Ouargla, Algeria	17 Toulouse, France*	33 Jeddah, Saudi Arabia*
2 El Palomar, Argentina	18 Penteli, Greece	34 Singapore
3 Rio Grande, Argentina	19 Bangalore, India	35 Cape Town, South Africa
4 Albany, Australia	20 Lucknow, India	36 Maspalomas, Spain
5 Bundaberg, Australia	21 Jakarta, Indonesia	37 Bangkok, Thailand*
6 Brasilia, Brazil	22 Bari, Italy	38 Ankara, Turkey*
7 Manaus, Brazil	23 Keelung, ITDC*	39 Abu Dhabi, UAE
8 Recife, Brazil	24 Gunma, Japan	40 Combe Martin, UK
9 Churchill, Canada	25 Incheon, Korea	41 Alaska, USA*
10 Edmonton, Canada	26 Abuja, Nigeria	42 California, USA*
11 Goose Bay, Canada	27 Wellington, New Zealand	43 Florida, USA*
12 Eastern Island, Chile	28 Tromsø, Norway	44 Guam*
13 Punta Arenas, Chile	29 Spitsbergen, Norway	45 Hawaii, USA*
14 Santiago, Chile	30 Karachi, Pakistan	46 Haiphong, Vietnam
15 Beijing, China*	31 Callao, Peru	
16 Hong Kong, China*	32 Nakhodka, Russia	

* These LEOLUTs are dual systems.

Satellite: altitude - 850 km / elevation angle: - 5 deg.

Table VI - GEOSAR Ground Segment Status (December 2010)

Country	GEOLUT Name	Number on Map (Figure 6)	Geostationary Satellite	GEOLUT Status
Algeria	Algiers	1	MSG-2	In operation, commissioned
Argentina	El Palomar	2	GOES-East	In operation, commissioned
Brazil	Brasilia	3	GOES-East	In operation, commissioned
	Recife	4	GOES-East	In operation, commissioned
Canada	Edmonton	5	GOES-West	In operation, commissioned
	Ottawa	6	GOES-East	In operation, commissioned
Chile	Santiago	7	GOES-East	In operation, commissioned
France	Toulouse	8	MSG-2	In operation, commissioned
Greece	Penteli	9	MSG-2	In operation, commissioned
India	Bangalore	10	INSAT-3A	In operation, commissioned
Italy	Bari	11	MSG-2	In operation, commissioned
New Zealand	Wellington (1)	12	GOES-West	In operation, commissioned
	Wellington (2)		GOES-West	In operation, commissioned
Norway	Fauske	13	MSG-1	In operation, commissioned
Russia	Moscow	-	Electro-L No.1	Under development
Spain	Maspalomas (1)	14	GOES-East	In operation, commissioned
	Maspalomas (2)		MSG-2	In operation, commissioned
Turkey	Ankara	15	MSG-1	In operation, commissioned
UAE	Abu Dhabi	16	MSG-2	In operation, commissioned
UK	Combe Martin	17	MSG-2	In operation, commissioned; GOES-East used as a standby satellite when needed
			GOES-East	
USA	Maryland (1)	18	GOES-East	In operation, commissioned
	Maryland (2)		GOES-West	In operation, commissioned

Figure 6: GEOSAR Satellite Coverage and GEOLUTs (December 2010)



Table VII - C/S Type Approved 406 MHz Beacons Listed by Manufacturer* 1/8

Manufacturer	Model Name	C/S Type Approval Certificate No. or Reference No. (a)	C/S Class (b)	Application (c)
ACR Electronics, Inc.	RLB-23 (Note f)	17	2	Float-Free EPIRB
	RLB-24 (Note f)	18	2	Non Float-Free EPIRB
	RLB-23E1 (Note f)	82	1	Float-Free EPIRB
	RLB-27 or Satellite 406 (Notes d, f)	83	1 or 2	Float-Free EPIRB
	RLB-28 or Satellite 406 (Notes d, f)	84	1 or 2	Non Float-Free EPIRB
	RLB-32 or Satellite 2	107	1	Float-Free/Non Float Free EPIRB
	RLB-33 or RapidFix (Notes e)	108	1	Float-Free EPIRB
	PLB-100 or GyPSI 406 / RLB-100 (Notes e, f)	109	1	PLB/Non Float-Free EPIRB
	RLB-35 (Notes f, i)	127	1	Float-Free EPIRB
	RLB-35 (Notes f, i)	136	1	Float-Free EPIRB
	RLB-35MC	136	1	Float-Free EPIRB
	RLB-33S	141	2	SSAS Beacon
	PLB-200 (Note f)	143, 156	2	PLB
	PLB-201 (Note f)	144	2	PLB
	PLB-201	157	2	PLB
	PLB-300 (Note f)	169	2	PLB
	PLB-35, PLB-35MC	173	1	Float-Free EPIRB
	PLB-200	174	2	PLB
	PLB-300 (Note f)	181	2	PLB
	PLB-300 (Note f)	187	2	PLB
	RLB-36 / RLB-40	189	2	Float-Free/Non Float Free EPIRB
	RLB-37 / RLB-38	189	2	Float-Free EPIRB
	PLB-300 (Note f)	190	2	PLB
	PLB-350A or PLB-350A Slim or PLB-3650A Float	198	2	PLB
	PLB-350B or PLB-350B Slim or PLB-350 Float	198	2	PLB
	PLB-350C or PLB-350 C Slim or PLB-350C Float	198	2	PLB
	PLB-300	199	2	PLB
	PLB-200 (Notes e, i)	207	2	PLB
	PLB-350B or PLB-350C	208	2	PLB
ADI Ltd. (Note l)	SERB MkII (Note f)	118	2	Non Float-Free EPIRB
Air Precision (Note m)	ELT 96 (Note f)	74	2	Automatic ELT
	ELT 96 S	74	2	Manual ELT
	ELT 97 (Note f)	74	2	Automatic ELT
	ELT 96 - Amendment J	74	2	Automatic ELT
	ELT 96 - Amendment D	74	2	Automatic ELT
	ELT 96-1Std, ELT 96-3Std, ELT 96-1GPS, ELT 96-2GPS, ELT 96-3GPS	192	2	Automatic ELT/ Portable ELT
Alden Marine	See Northern Airborne Technology Ltd.			
Allied Signal Aerospace Canada (Note k)	See Honeywell Aerospace Canada			
Ameri-King Corporation	AK-451 or AK-451(AF) or AK-451 (AP) or AK-451(S) or AK-451-PLB	179	2	Automatic ELT/Portable ELT/Survival ELT/PLB
AMS Ltd. (Note s)	See BAE Systems Integrated System Technologies			
Artex Aircraft Supplies, Inc.	See Wulfsberg Electronics			
Aviation and Marine Technologies, Inc. (Note l)	Avmar M1-406 (Note f)	58	2	Float-Free EPIRB
BAE Systems Australia Ltd. (Notes l, z)	AF/PRC-807 Warrendi	702	2	PLB
	AF/PRC-807A Warrendi	704	2	PLB

Table VII - C/S Type Approved 406 MHz Beacons Listed by Manufacturer* 2/8

Manufacturer	Model Name	C/S Type Approval Certificate No. or Reference No. (a)	C/S Class (b)	Application (c)
BAE Systems Integrated System Technologies	639 SIU	100	2	Float-Free EPIRB
Becker Electronics Taiwan Ltd.	MR 109	166	1	PLB
Becker Flugfunkwerk GmbH (Note y)	MR 509/1	132	2	PLB
	MR 510 or MR 510-xx-(x1x) (Note n)	209	1	PLB
	MR 509, MR 509/2	701	2	PLB
	MR 510 (Note i)	715	2	PLB
Bitova Electronic Co. (Note l)	SEVT-406 (Note f)	45	2	Float-Free EPIRB
British Aerospace Australia	See BAE Systems Australia Ltd.			
Caledonian Airborne Systems Ltd.	CPT-600M (Notes d, f)	8	1 or 2	Float-Free EPIRB
	CPT-600N (Note f)	33	2	Float-Free EPIRB
	ADELTA CPT 609 (Note f)	90	2	Automatic ELT
	CPT-900	154	2	Automatic ELT
CEIS TM	See ELTA SA			
Cobham Tracking and Locating Ltd.	SLB-2000-100	711	2	PLB
Digital Angel Corporation	AAPLB (AN-URT-XX)	712	2	PLB
DME Corporation	SRB-406	133	2	Automatic ELT
DRS Data and Imaging Systems (Note r)	BAU-35, BAU-35A (Note e)	121	2	Automatic ELT
EADS Deutschland GmbH	NH90 RBA	707	1	Automatic ELT
ELTA SA	BSU 85 (Note f)	3	2	Non Float-Free EPIRB
	BSP 86	9	2	Float-Free EPIRB
	M 02	16	1	Float-Free EPIRB
	A 06	20	2	Automatic ELT
	S 06	20	2	Manual ELT
	M 04 (Note f)	24	2	Float-Free EPIRB
	MT 06 (Note f)	34	2	Non Float-Free EPIRB
	H-06 (Note f)	44	2	Automatic ELT
	P-07 (Note f)	51	2	PLB
	M-05 Sealife (Notes d, f)	69	1 or 2	Float-Free EPIRB
	MO56 (Note f)	79	2	Float-Free EPIRB
	P076 (Note f)	89	2	PLB
	ADT406 AF/AP	131	2	Automatic ELT
	ADT406 ² AF/AP	131	2	Automatic ELT
	ADT 406 S	153	2	Automatic ELT
Emergency Beacon Corporation	EBC-406, EBC-406H	168	2	Automatic ELT/Portable ELT
EMS Technologies Canada (EMS Satcom Ltd.)	EMS 406-1 (Note f)	134	2	Automatic ELT
	EMS SSAS (Not e)	146	2	SSAS Beacon
ENA Telecomunicaciones S.A. (Note l)	ENASAT-406 A	81	2	Float-Free EPIRB
	ENASAT-406 M	81	2	Non Float-Free EPIRB
Fernau Aviation Ltd.	Fernau 2100, Fernau 2100B, Fernau 2200, Fernau 2200B (Note n)	147	2	PLB
GEC-Marconi Radar and Defence Systems	See BAE Systems Integrated System Technologies			
General Dynamics C4 Systems	AN/PRC-112G	708	2	PLB
Honeywell Aerospace Canada (Note k)	Rescu 406	88	2	Manual ELT
	Rescu 406AF	124	2	Automatic ELT
	Rescu 406 AFN	171	2	Automatic ELT
	Rescu 406 SE	171	2	Manual ELT-Survival
Japan Radio Co. Ltd.	JQE-2A (Note f)	15, 30	1	Float-Free EPIRB
	JQE-2A (Note f)	49	1	Float-Free EPIRB

Table VII - C/S Type Approved 406 MHz Beacons Listed by Manufacturer* 3/8

Manufacturer	Model Name	C/S Type Approval Certificate No. or Reference No. (a)	C/S Class (b)	Application (c)
Japan Radio Co. Ltd. (Cont.)	JQE-2A (Note f)	21	2	Float-Free EPIRB
	JQE-3A, JQE-3A-J	80	2	Float-Free EPIRB
Jotron Electronics A.S.	Tron 30S (Note f)	1	2	Float-Free EPIRB
	Tron 30 S mkII (Note f)	50, 66	2	Float-Free EPIRB
	Tron 40S	95	2	Float-Free EPIRB
	Tron 45 SX	98	2	Non Float-Free EPIRB
	Tron 45 S	99	2	Non Float-Free EPIRB
	Tron 40 GPS (Note n)	122	2	Float-Free EPIRB
	Tron S-VDR Capsule, L-3 FFSVR	155	2	Float-Free EPIRB
	Tron 40S MkII, Tron 40GPS MkII	185	2	Float-Free/Non Float-Free EPIRB
JSC (Joint Stock Company) ISDE	ARM-406 AC1	125	1	Manual ELT
	ARM-406 P, ARM-406 P1	130	1	Automatic ELT
	PARM-406	177	2	PLB
	ARM-406N1	183	1	Automatic ELT
	PARM-406M, KS-NAP (Note i)	193	1	PLB
	PARM-406A (Note i)	193	1	Manual ELT-Survival
	PRM-406N (Note i)	196	1	PLB
Kannad (Note t)	Kannad 406 (Note f)	5	2	Non Float-Free EPIRB
	Kannad 406 F	7	2	Float-Free EPIRB
	Kannad 406 S (Notes d, f)	13	1 or 2	Non Float-Free EPIRB
	Kannad 406 F or Kannad 406 P (Notes f, d)	14	1 or 2	Float-Free EPIRB
	Kannad 406 S (Note f)	22	2	Non Float-Free EPIRB
	Kannad 406 F or Kannad 406 P (Note f)	23	2	Float-Free EPIRB
	Kannad 406 FH or Kannad 406 PH	35	2	Float-Free EPIRB
	Kannad 406 S or Kannad 406 SW or Rescuer 406 S	39	2	Non Float-free EPIRB
	Kannad 406 F or Kannad 406 P or Kannad 406 FW or Kannad 406 PW (Note f)	40	2	Float-Free EPIRB
	Kannad 406 FH or Kannad 406 PH or Kannad 406 WH or Rescuer 406 P or Rescuer 406 PW (Note f)	41	2	Float-Free EPIRB
	Kannad 406 ATP (Note f)	42	2	Automatic ELT
	Kannad 406 ATP, Kannad 406 ATP-M (Note f)	91	2	Automatic ELT
	Kannad 406 m	92	1 or 2	PLB/Non Float-Free EPIRB
	Kannad 406 XS (Note f)	101	2	Non Float-Free EPIRB/Manual ELT/PLB
	Kannad 406 AP or Kannad 406 AF or Kannad 406 AF-H	105	2	Automatic ELT
	Kannad 406 AS or Kannad 406 Survival (Note f)	105	2	Manual ELT
	Kannad 406 AP or Amdt G or higher, Kannad 406 AF or Amdt G or higher, Kannad 406 AF-H or Amdt G or higher, Kannad 406 AP-H or Amdt A or higher	105	2	Automatic ELT
	Kannad 406 AS or Amdt F or higher, Kannad 406 Survival or Amdt B or higher	105	2	Manual ELT
	Kannad 406 ATP _{TAC 105}	105	2	Automatic ELT/Portable ELT
	Kannad 406 AF-H (HT)	105	2	Automatic ELT
	Kannad 406 XS-2, Kannad 406 XS-2 GPS (Notes f, n)	138	2	PLB
	Kannad 406 GPS PRO (Note i)	149	2	Float-Free EPIRB

Table VII - C/S Type Approved 406 MHz Beacons Listed by Manufacturer* 4/8

Manufacturer	Model Name	C/S Type Approval Certificate No. or Reference No. (a)	C/S Class (b)	Application (c)
Kannad (Cont.) (Note t)	Kannad 406 SVW GPS, Kannad 406 SV GPS (Note i)	149	2	Non Float-Free EPIRB
	Kannad 406 PRO (Note f)	151	2	Float-Free EPIRB
	Kannad 406 SVW, Kannad 406 SV	151	2	Non Float-Free EPIRB
	Kannad Auto GPS, Kannad Auto Kannad Manual + GPS, Kannad Manual +, Kannad Manual GPS, Kannad Manual	162	2	Float-Free EPIRB
	Kannad Auto GPS or Amdt D and higher	162	2	Float-Free EPIRB
	Kannad Manual + GPS or Amdt D and higher, Kannad Manual GPS or Amdt D and higher	162	2	Non Float-Free EPIRB
	Kannad 406 AF-Compact, Kannad 406 AF-Compact (ER)	167	2	Automatic ELT
	Kannad 406 XS3-GPS (Note n)	180	2	PLB
	SefeLink Auto/SefeLink Manual + (Note i)	201		Float Free/Non Float-Free EPIRB
Kinetic Technologies International Pty. Ltd.	RB6	150	2	Non Float-Free EPIRB
Kolgrim-Don Ltd.	Marlin-406 or Marlin-406 A2	161	2	Float-Free EPIRB
Litton Special Devices (Notes g, l)	952-21 or 952-25 (Note f)	76	2	Automatic ELT
	952-23 (Note f)	76	2	Manual ELT
Lokata Ltd. (Notes n, l)	406 P (Note f)	10	2	Non Float-Free EPIRB
	406 M (Note f)	11	2	Non Float-Free EPIRB
	406 H (Note f)	12	2	Float-Free EPIRB
	406 P(Y) (Note f)	25	2	Non Float-Free EPIRB
	406 M(Y) (Note f)	26	2	Non Float-Free EPIRB
	406 H(Y) (Note f)	27	2	Float-Free EPIRB
	406 PF(Y) (Note f)	54	2	Non Float-Free EPIRB
	Honeywell ECB (Note f)	55	2	Non Float-Free EPIRB
	406 MH(Y) (Note f)	63	2	Float-Free EPIRB
	406 M(Y)E (Note f)	64	2	Non Float-Free EPIRB
	406 MH(Y)E (Note f)	65	2	Float-Free EPIRB
	406-2A or 406-2AH (Note f)	75	2	Float-Free EPIRB
	406-2M (Note f)	75	2	Non Float-Free EPIRB
Martec Serpe-IESM	See Kannad			
McMurdo Ltd.	RT 160M or McMurdo RB406	2	1	Float-Free EPIRB
	RT 161M	28	2	Float-Free EPIRB
	RT 160	31	1	Non Float-Free EPIRB
	RT 161	32	2	Non Float-Free EPIRB
	LDT 61 (Note f)	53	2	Float-Free EPIRB
	LDT 62 (Note f)	53	2	Non Float-Free EPIRB
	RT 260M or Newcom NC-270 or Tellumat PT 280A or McMurdo MCM 406A	70	2	Float-Free EPIRB
	RT 260 or Newcom NC-270A or Tellumat PT 280M or McMurdo MCM 406M	72	2	Non Float-Free EPIRB
	Locat LDT 61A (Note f)	85	2	Float-Free EPIRB
	Locat LDT 62A (Note f)	85	2	Non Float-Free EPIRB
	E3a or SOS Rescue 406a or Sea 406a or Sailor 406 a (Note f)	106	1	Float-Free EPIRB
	E3c or SOS Rescue 406c or Sea 406c or Sailor 406c (Note f)	106	1	Non-Float-Free EPIRB
	E3m or SOS Rescue 406m or Sea 406m or Sailor 406m (Note f)	106	1	Non Float-Free EPIRB
	G4a or SOS Precision 406a or Sailor GPS 406a (Note i)	119	2	Float-Free EPIRB
	G4c or SOS Precision 406c or Sailor GPS 406c (Note i)	119	2	Non Float-Free EPIRB

Table VII - C/S Type Approved 406 MHz Beacons Listed by Manufacturer* 5/8

Manufacturer	Model Name	C/S Type Approval Certificate No. or Reference No. (a)	C/S Class (b)	Application (c)
McMurdo Ltd. (Cont.)	G4m or SOS Precision 406m or Sailor GPS 406m (Note i)	119	2	Non Float-Free EPIRB
	Fastfind, Fastfind Plus (Note n)	129	1 or 2	PLB/Non Float-Free EPIRB (Note o)
	G5 Smartfind Plus (a) & (m) or SGE406II (a) & (m) or EG50:AUTO or EG50:MAN	163	2	Float-Free/Non Float-Free EPIRB
	E3 Smartfind (a) & (m), SE406-II (a) & (m), EP50:AUTO & EP50:MAN, A5 Smartfind (m)	163	2	Float-Free/Non Float Free EPIRB
	C1 S-VDR Float-Free Capsule, VR-3000S Float-Free DRU, Model VR-3030; VDR-A16 Float-Free CSM, Model VDR-A-16 (Note u)	165	1	Float-Free EPIRB
	Fastfind or Fastfind Max, Fastfind Plus or Fastfind Max G, Fastfind MaxG(B) (Note f)	184	2	PLB
	Fastfind PLB 200 or Fastfind PLB 201, Fastfind PLB 210 or Fastfind PLB 211,	194	2	PLB
	Fastfind PLB 200 or Fastfind PLB 201	200	2	PLB
	Fastfind PLB 210 or Fastfind PLB 211 (Note n)	200	2	PLB
	Fastfind PLB 200 or Fastfind PLB 201, Fastfind PLB 210 or Fastfind PLB 211 or XS-4 GPS (Note i)	203	2	PLB
	Kannad Marine Safelink SOLO 310 or Kannad Marine Safelink SOLO 311 (Note i)	203	2	PLB
	G5 Smartfind Plus (a) & (m), (Note i)	204	2	PLB
	E5 Smartfind Plus (a) & (m)	204	2	PLB
Microwave Monolithics, Inc.	MBT-040600	110	2	PLB
	MBT-040600D	110	2	PLB
	MBT-040600-48	110	2	PLB
	MBT-040600D-48	110	2	PLB
	MBT-040600A	113	2	PLB
	MBT-040600A-48	113	2	PLB
	MBT-040600B	114	2	PLB
	MBT-040600E	114	2	PLB
	MBT-040600B-48	114	2	PLB
	MBT-040600E-28	114	2	PLB
	MBT-040600C	115	2	PLB
MPR Teltech Ltd.	See Northern Airborne Technology Ltd.	115	2	PLB
Musson-Exim Co. (Note l)	ARB-MK	36	2	Float-Free EPIRB
	ARB-PC	52	1	PLB
	ARB-M	61	2	Float-Free EPIRB
	Musson-501 (Note d)	62	1 or 2	Float-Free EPIRB
	Cospas-ARB-MK1	68	2	Float-Free EPIRB
Musson Marine Ltd.	AVMM ELT S-406	158	2	Manual ELT-Survival
Musson-Morsviaz-Servis	MP-406, MP-406 (HHEE)	140	2	Float-Free EPIRB
	SAS-406	191	2	SSAS Beacon
navtec GmbH	navtec global-C. navtec global plus	160	2	Float-Free EPIRB
NEC Radio and Electronics Ltd. (Note j)	See Taiyo Musen Co. Ltd.			
Northern Airborne Technology Ltd. (Note l)	L-1000	38	1	PLB
	SATFIND-406 M	43	2	Float-Free/Non Float-Free EPIRB
	SATFIND-406 Pocket PLB (Note h)	71	1	PLB

Table VII - C/S Type Approved 406 MHz Beacons Listed by Manufacturer* 6/8

Manufacturer	Model Name	C/S Type Approval Certificate No. or Reference No. (a)	C/S Class (b)	Application (c)
Northern Airborne Technology Ltd. (Note l)	SATFIND-406 Survival EPIRB	78	2	Float Free/Non Float-Free EPIRB
	SATFIND-406 ELT Model A-1000	93	2	Automatic ELT
	SATFIND-406 GPIRB (Note i)	102	2	Float-Free EPIRB
	A 1500 SATFIND-406 ELT (Note e)	120	2	ELT
Nova Marine Systems Ltd. (Note x)	See McMurdo Ltd.			
Ocean Signal Ltd.	SafeSea E 100 (Class 2)	211	2	Float-Free/Non Float-Free EPIRB
	SafeSea E100G (Class 2) (Note i)	211	2	Float-Free/Non Float-Free EPIRB
Pointer, Inc.	8000-1 (AF)	205	2	Automatic ELT
Pro-Find Safety, Inc.	See Seimac Ltd.			
SALCOM	MRB 406, MRB 406 GPS	178	2	Non Float-Free EPIRB
Samyang Radio Co. Ltd.	See Saracom Co. Ltd.			
Samyung Electronic Co. Ltd.	See Samyung ENC Co. Ltd.			
Samyung ENC Co. Ltd.	SEP-406 (Note i)	117	2	Float-Free EPIRB
	SEP-500, SEP-500V (Note i)	195	2	Float-Free EPIRB
Saracom Co. Ltd. (Note q)	EB-10	94	2	Float-Free EPIRB
	EB-20, EB-20 SVDR Capsule	182	2	Float-Free EPIRB
Seimac Ltd. (Note w)	PROFind 406 or Satfind 406	123	1	Float-Free EPIRB
	PRO (Note p)			
	SLB-1000, SLB-1000-200, SLB-1000-210 or SLB 406	148	1	ELT(s)/PLB
Serpe-IESM	See Kannad			
Sextant (Note l)	SDT 406 M (Note f)	4	2	Non Float-Free EPIRB
	SDT 406 A (Note f)	6	2	Automatic ELT
Signal Engineering, Inc.	SEIPLB-25 or AN-URT-44	713	2	PLB
Signature Industries Ltd.	SARBRE10-I286 (Note f)	128	2	Non Float-Free EPIRB
	BE369/406 (Note f)	142	2	Non Float-Free EPIRB
	SARBE G2R ELT or SARBE 8 ELT	159	2	ELT
	CSAR +406			
	SARBE 7-406, SARBE 7-406G	175	2	PLB
	AAPLB-PELS (Note i)	206	2	PLB
	SARBE G2R (Note i)	706	2	PLB
	SARBE 6-406G or SARBE 7-V406G) (Note i)	709	2	PLB
	SARBE 6-406 or SARBE 7-V406) (Note i)	709	2	PLB
Socata (Note m)	See Air Precision			
Skanti (Note l)	TP 2 (Note f)	77	1 or 2	Float-Free EPIRB
SRC Co. Ltd.	CEP 100 (Note i)	202	2	Float-Free EPIRB
State Designer's Bureau of Radiocommunication (Note l)	SM-511	96	2	Float-Free EPIRB
Standard Communications Pty. Ltd.	MT400, MT401	139	2	Non Float-Free EPIRB
	MT401 FF	139	2	Float-Free EPIRB
	MT 410	176	2	PLB
	MT 410G (Note i)	176	2	PLB
	MT403 or MT403 FF	186	2	Float-Free/Non Float-Free EPIRB
	MT403G or MT403 FG (Note i)	186	2	Float-Free/Non Float-Free EPIBB
	MT406G (Note i)	186	2	Non Float-Free EPIRB
Tadiran Spectralink Ltd.	AN-PRC-149 (Note i)	703	2	PLB
	AN-URT-140 (Note i)	705	2	Automatic ELT/PLB
	PRC-434G/CS (Note i)	710	2	PLB
Taiyo Musen Co. Ltd.	REB-22 or Anristu RJ301A or ZENICAL EP (Note f)	56	2	Float-Free EPIRB
	REB-23-01 or Anristu RJ302A or ZENICALL-F (Note f)	86	2	Float-Free EPIRB

Table VII - C/S Type Approved 406 MHz Beacons Listed by Manufacturer* 7/8

Manufacturer	Model Name	C/S Type Approval Certificate No. or Reference No. (a)	C/S Class (b)	Application (c)
Taiyo Musen Co. Ltd. (Cont.)	REB-23-02 (Note f)	86	2	Non Float-Free EPIRB
	TEB-700 or JQE-103 or ZENICALL G	164	1	Float-Free EPIRB
	TEB-720	164	1	Non Float-Free EPIRB
Techtest Ltd.	ELT 503-1 (Note e)	97	1	Automatic ELT
	ELT 503-3 or ELT 503-11	97	1	Automatic ELT
	ELT 503-12	103	1	Manual ELT
	ELT 503-2 or ELT 503-8	103	1	Automatic ELT
	PLB 500-4 or PLB 500-20	103	1	PLB
	500-12	111	2	Automatic ELT/PLB
Thales Underwater Systems Ltd.	500-27, 500-27 PELS (Note i)	111	2	Manual ELT/PLB
	SEPIRB	137	2	Float-Free EPIRB
The Guest Co., Inc. (Notes g, l)	948	19	2	Float-Free EPIRB
	948	29	2	Non Float-Free EPIRB
	952-02	57	2	Non Float-Free EPIRB
	952-01	73	2	Float-Free EPIRB
Toyo Communication Equipment Co. Ltd. (Note l)	C-2277 or Furuno FSO-400	37	2	Float-Free EPIRB
Ultra Electronics Ocean Systems (Note v)	T-1630/SRT Buoy Tx SEPIRB (Note i)	116	2	Non Float-Free EPIRB
Uranis Ltd.	PRO-5	172	2	Float-Free EPIRB
Wulfsberg Electronics	ELT 110-406 or ELT B406-1 (Note f)	67	2	Automatic ELT
	ELT 110-406 NAV or ELT 110-406	104	2	Automatic ELT
	HM NAV or ELT B406-2 NAV or ELT 110-406ED NAV (Notes e, f)			
	B406-4, C406-1HM or C406-1HM, C406-2 or C406-2HM, G406-4 (Notes e, f)	112	2	Automatic ELT
	G406-1, G406-2 (Notes e, f)	126	2	Automatic ELT
	C406-N, C406-N HM (Note e)	135	2	Automatic ELT
	ME406, NE406 HM (Notes e, f)	152	2	Automatic ELT
	ME406 P (Notes e, f)	152	2	Automatic ELT/ Portable ELT
	C406-1 or C406-1 HM, C406-2/ B406/G406-4 (Note e)	170	2	Automatic ELT
	ME406, ME406 HM (Note e)	188	2	Automatic ELT
	ME406 P (Note e)	188	2	Automatic ELT/ Portable ELT
	ME406, ME406 HB (Note e)	197	2	Automatic ELT
	ME406 P (Note e)	197	2	Automatic ELT/ Portable ELT
	C406-1/C406-1HM, C-406-2/ B406-4/C406-2HM (Note e)	210	2	Automatic ELT
Yaroslavsky Radio Engineering Works	ARB-PK	46	2	PLB
	ARB-PK1 (Note f)	47	1	PLB
	ARB-PK10	48	1	PLB
	ARB-MKS Afalina (Note f)	59	1	Float-Free EPIRB
	ARB-PKE Excom (Note f)	60	1	PLB
	ARB M-406	145	2	Float-Free EPIRB
	R-855A1M	714	2	Manual ELT-Survival

Table VII - C/S Type Approved 406 MHz Beacons Listed by Manufacturer* 8/8

Notes:

- * Further information on Cospas-Sarsat type approved 406 MHz beacons, as well as a list of 406 MHz beacon manufacturers, are available on the Cospas-Sarsat website at www.cospas-sarsat.org.
- (a) Cospas-Sarsat type approval is a confirmation of compatibility with equipment in the Cospas-Sarsat System. It does not affect the manufacturer's obligations to obtain national type acceptance and/or relevant authorizations from national Administrations regarding registration and use of 406 MHz distress beacons. Beacons with a reference number 701 and above have received a letter of compatibility (not a full type approval certificate) and may not meet all Cospas-Sarsat requirements.
 - (b) Cospas-Sarsat Classes (operating temperature range):
 Class 1: -40°C to +55°C;
 Class 2: -20°C to +55°C.
 - (c) As stated by manufacturer. Installation characteristics are not addressed in Cospas-Sarsat specification and type approval testing.
 - (d) Class of the beacon (1 or 2) is dependent on type of battery installed.
 - (e) With external navigation device.
 - (f) Model with this type approval certificate number is no longer in production.
 - (g) On January 31, 1996 Litton Special Devices (USA) sold the design and production rights for EPIRB Models 948 and 952 (Certificates Nos. 19, 29, 57, 73) to The Guest Company, Inc. (USA).
 - (h) On July 3, 1996 Northern Airborne Technology Ltd. (Canada) purchased the designs from MPR Teltech (Canada) and production from Alden Electronics (USA) for SATFIND-406TM Pocket PLB (Certificate No.71), SATFIND-406TM Survival EPIRB (Certificate No.78) and SATFIND-406 ELT Model A-1000 (Certificate No.93).
 - (i) With internal navigation device.
 - (j) On April 1, 2000 NEC Radio Electronics Co. Ltd. (Japan) sold the design and production rights for EPIRB Models REB-22, REB-23-01, REB-23-02 and REB-24 (Certificates Nos. 56, 86 and 87) to TAIYO MUSEN Co. Ltd (Japan).
 - (k) On January 1, 2000 company name was changed from Allied Signal Aerospace Canada to Honeywell Aerospace.
 - (l) Stopped beacon manufacturing.
 - (m) In July 2000, Socata (France) sold the design and production rights for ELT models ELT 96, ELT 96 S and ELT 97 (Certif. No.74) to Air Precision (France).
 - (n) Models no longer in production, but supported by Sartech Engineering.
 - (o) Non Float-Free EPIRB – Class 2.
 - (p) Beacon is produced by Seimac Ltd., but marketed by Northern Airborne Technology Ltd.
 - (q) Company name was changed from Samyang Radio Co. Ltd. to Saracom Co. Ltd.
 - (r) In July 2004 company name was changed from DRS Flight Safety and Communications to DRS Data and Imaging Systems.
 - (s) On 7 October 2003 company name was changed from GEC-Marconi Radar and Defence Systems to AMS Ltd.
 - (t) In 2006 company name was changed from Serpe-IESM to Martec Serpe-IESM. In 2007, company name was changed to Kannad.
 - (u) Also sold as VR-3000S Float-Free DRU, Model VR-3030; VDR A16 Float-Free CSM, Model VDR-A16 (Certificate No.165).
 - (v) In 2004 company name was changed from BAE Systems - Ocean Systems to Ultra Electronics Ocean Systems.
 - (w) In 2008 company name was changed from Seimac Ltd. to Cobham Tracking and Locating Ltd.
 - (x) See McMurdo Ltd.
 - (y) Former Becker Avionics Systems.
 - (z) Former British Aerospace Australia.

Table VIII - Cospas-Sarsat Documents 1/4

Notes: * All documents are available from the Cospas-Sarsat website, except for those marked with an * which could be ordered from the Secretariat.

 ** Only Annex C of document C/S R.007 is available on the Cospas-Sarsat website. Contact the Secretariat to get a soft copy of the other parts of document C/S R.007.

C/S A.xxx Series - Operational

Cospas-Sarsat Data Distribution Plan
C/S A.001, Issue 6, October 2010

Cospas-Sarsat Mission Control Centres Standard Interface Description
C/S A.002, Issue 5 - Revision 1, October 2010

Cospas-Sarsat System Monitoring and Reporting
C/S A.003, Issue 2 - Revision 1, October 2010

Cospas-Sarsat Mission Control Centre Performance Specification and Design Guidelines
C/S A.005, Issue 3 - Revision 7, October 2009

Cospas-Sarsat Mission Control Centre Commissioning Standard
C/S A.006, Issue 3 - Revision 6, October 2010

C/S D.xxx Series - IBRD

Functional Requirements for the Cospas-Sarsat International 406 MHz Beacon Registration Database
C/S D.001, Issue 2, October 2010

Cospas-Sarsat International 406 MHz Beacon Registration Database (IBRD), Software Maintenance Manual
C/S D.002, Issue 1, November 2005

Cospas-Sarsat International 406 MHz Beacon Registration Database (IBRD), System Maintenance Manual
C/S D.003, Issue 1, November 2005

Operations Plan for the Cospas-Sarsat International 406 MHz Beacon Registration Database
C/S D.004, Issue 1- Revision 3, November 2007

C/S G.xxx Series - General

Introduction to the Cospas-Sarsat System
C/S G.003, Issue 6, October 2009

Cospas-Sarsat Glossary*
C/S G.004, Issue 1 - Revision 4, October 1999

Cospas-Sarsat Guidelines on 406 MHz Beacon Coding, Registration and Type Approval
C/S G.005, Issue 2 - Revision 5, October 2010

Handbook on Distress Alert Messages for Rescue Coordination Centres (RCCs), Search and Rescue Points of Contact (SPOCs) and IMO Ship Security Competent Authorities
C/S G.007, Issue 1 - Revision 2, October 2010

Table VIII - Cospas-Sarsat Documents 2/4

C/S P.xxx Series - Programme

The International Cospas-Sarsat Programme Agreement
C/S P.001, 1 July 1988

Procedure for the Notification of Association with the International Cospas-Sarsat Programme by
States Non-Party to the Cospas-Sarsat Agreement
C/S P.002, December 1992

Arrangement between Canada, the Republic of France, the Russian Federation and the United States
of America Regarding the Headquarters of the International Cospas-Sarsat Programme
C/S P.005, 5 April 2005

Understanding between the Cospas-Sarsat Programme and the Gouvernement du Québec Concerning
Exemptions, Fiscal Advantages and Courtesies Accorded to the Programme, Representatives of
Member States and Officials of the Secretariat
C/S P.006, 17 May 2005

Guidelines for Participating in the Cospas-Sarsat System
C/S P.007, Issue 5, October 2009

Arrangement on Cooperation between the Cooperating Agencies of the Parties to the International
Cospas-Sarsat Programme Agreement and the European Organisation for the Exploitation of
Meteorological Satellites (EUMETSAT) on the EUMETSAT Contribution to the Cospas-Sarsat
GEOSAR System
C/S P.008, 25 October 2010

Understanding between the States Parties to the International Cospas-Sarsat Programme Agreement
and the Republic of India concerning the Association of the Republic of India with the Cospas-Sarsat
Programme as a Provider of Geostationary Satellite Services for Search and Rescue (GEOSAR)
C/S P.009, 25 March 2007

List of States and Organizations Associated with the Cospas-Sarsat Programme
C/S P.010, December 2010

Cospas-Sarsat Programme Management Policy
C/S P.011, Issue 1 - Revision 5, October 2010

Cospas-Sarsat Secretariat Management Guide
C/S P.012, Issue 1 - Revision 1, November 2005

Declaration of Intent for Co-operation on the Development and Evaluation of the Medium Earth Orbit
Search and Rescue (MEOSAR) Satellite System between the Co-operating Agencies of the
International Cospas-Sarsat Programme and the Galileo Joint Undertaking
C/S P.014, 14 December 2006

Cospas-Sarsat Quality Manual
C/S P.015, Issue 1 - Revision 2, October 2010

Cospas-Sarsat Strategic Plan
C/S P.016, Issue 1, October 2008

Table VIII - Cospas-Sarsat Documents 3/4

C/S R.xxx Series - Reports

Cospas-Sarsat Report on System Status and Operations**
C/S R.007, No.26: January - December 2009

Summary Report of the 406 MHz Geostationary System Demonstration and Evaluation
C/S R.009, October 1999

Cospas-Sarsat Meteosat Second Generation (MSC) GEOSAR Performance Evaluation Plan
C/S R.011, Issue 1 - Revision 1, October 2003

Cospas-Sarsat 406 MHz MEOSAR Implementation Plan
C/S R.012, Issue 1 - Revision 6, October 2010

Cospas-Sarsat Meteosat Second Generation (MSG) GEOSAR Performance Evaluation Report
C/S R.013, Issue 1 - Revision 1, October 2006

Cospas-Sarsat INSAT GEOSAR Performance Evaluation Plan
C/S R.014, Issue 1, October 2009

Cospas-Sarsat INSAT GEOSAR Performance Evaluation Report
C/S R.015, Issue 1, October 2009

Cospas-Sarsat Electro-L GEOSAR Performance Evaluation Plan
C/S R.016, Issue 1, October 2010

C/S S.xxx Series - Secretariat

Handbook of Beacon Regulations
C/S S.007, Issue 2, September 2010

C/S T.xxx Series - Technical

Specification for Cospas-Sarsat 406 MHz Distress Beacons
C/S T.001, Issue 3 - Revision 11, October 2010

Cospas-Sarsat LEOLUT Performance Specification and Design Guidelines
C/S T.002, Issue 4, October 2009

Description of the Payloads Used in the Cospas-Sarsat LEOSAR System
C/S T.003, Issue 4 - Revision 1, October 2010

Cospas-Sarsat LEOSAR Space Segment Commissioning Standard
C/S T.004, Issue 2 - Revision 1, October 2010

Cospas-Sarsat LEOLUT Commissioning Standard
C/S T.005, Issue 3, October 2009

Cospas-Sarsat Orbitography Network Specification
C/S T.006, Issue 2 - Revision 1, October 2009

Table VIII - Cospas-Sarsat Documents 4/4

C/S T.xxx Series – Technical (Cont.)

Cospas-Sarsat 406 MHz Distress Beacon Type Approval Standard
C/S T.007, Issue 4 - Revision 5, October 2010

Cospas-Sarsat Acceptance of 406 MHz Beacon Type Approval Test Facilities
C/S T.008, Issue 2, November 2005

Cospas-Sarsat GEOLUT Performance Specification and Design Guidelines
C/S T.009, Issue 1 - Revision 7, October 2009

Cospas-Sarsat GEOLUT Commissioning Standard
C/S T.010, Issue 1 - Revision 6, October 2009

Description of the 406 MHz Payloads Used in the Cospas-Sarsat GEOSAR System
C/S T.011, Issue 1 - Revision 6, October 2010
Cospas-Sarsat 406 MHz Frequency Management Plan
C/S T.012, Issue 1 - Revision 7, October 2010

Cospas-Sarsat GEOSAR Space Segment Commissioning Standard
C/S T.013, Issue 1, October 2001

Cospas-Sarsat Frequency Requirements and Coordination Procedures
C/S T.014, Issue 2 - Revision 1, October 2010

Cospas-Sarsat Specification and Type Approval Standard for 406 MHz Ship Security Alert (SSAS) Beacons
C/S T.015, Issue 1 - Revision 1, November 2007

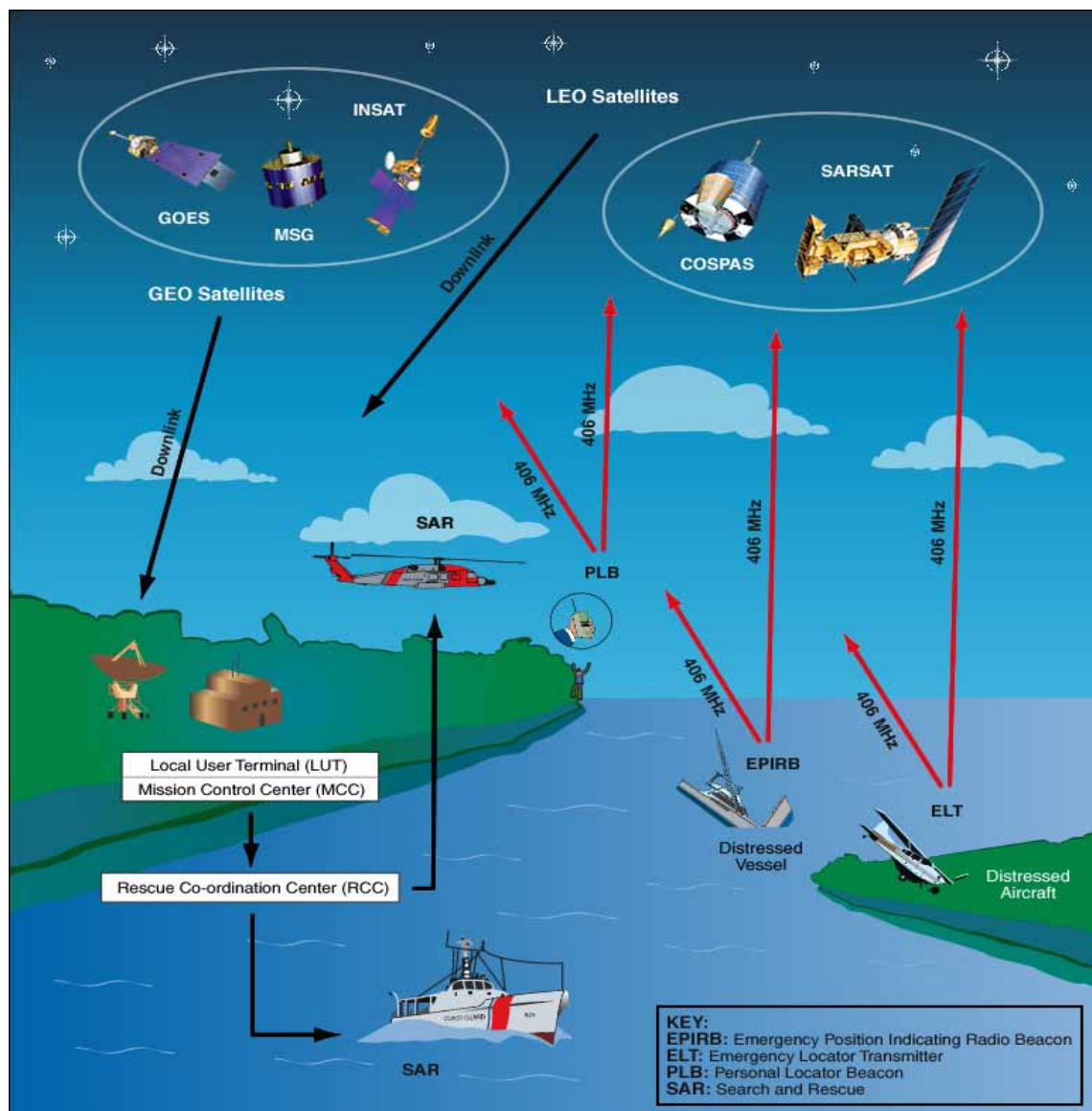
C/S IP Series - Interim Procedures

Interim Procedure for the Determination of Compliance of 406 MHz Beacons Equipped with a TCXO with Cospas-Sarsat Type Approval Requirements
C/S IP (TCXO), Revision 2, October 2010

Interim Procedure for Type Approval of 406 MHz Beacons Equipped with Li-Ion Rechargeable Batteries
C/S IP (LIRB), Revision 1, October 2010

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Figure 7: Basic Concept of the Cospas-Sarsat System



Notes:

COSPAS: Space system for the search of vessels in distress (Russia)

SARSAT: Search and rescue satellite-aided tracking system (Canada, France and USA)

LEOSAR: Low Earth Orbit satellite system for SAR

LEOLUT: Local user terminal in a LEOSAR system

GEOSAR: Geostationary satellite system for SAR

GEOLUT: Local user terminal in a GEOSAR system

GOES: Geostationary operational environmental satellite (USA)

INSAT: Indian geostationary satellite

MSG: Meteosat second generation satellite (EUMETSAT)



Published by the **Secretariat of the International Cospas-Sarsat Programme**
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