

ITUEvents

ITU World Radiocommunication Seminar 2018

3-7 December 2018
Geneva, Switzerland

www.itu.int/go/ITU-R/WRS-18



World Radiocommunication
Seminar 2018

**ITU Service Publications
(maritime) and MARS
(Maritime mobile Access
and Retrieval System)**

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International Telecommunication Union

**ITU HQ Geneva,
3 December, 2018**



World Radiocommunication Seminar 2018



ITU Service Publications (maritime) and MARS (Maritime mobile Access and Retrieval System)

Maritime Service Publications

BR/TSD/TPR

International Telecommunication Union

Presentation

- General
- List of Coast Stations and Special Service Stations (List IV)
- List of Ship Stations and Maritime Mobile Service Identity Assignments (List V)
- Manual for Use by the Maritime Mobile and Maritime Mobile-Satellite Services
- Maritime mobile Access and Retrieval System (MARS)
- ITU Service Publications (maritime) and MARS - Who are the users?
- ITU Service Publications and MARS – Statistics
- Conclusion

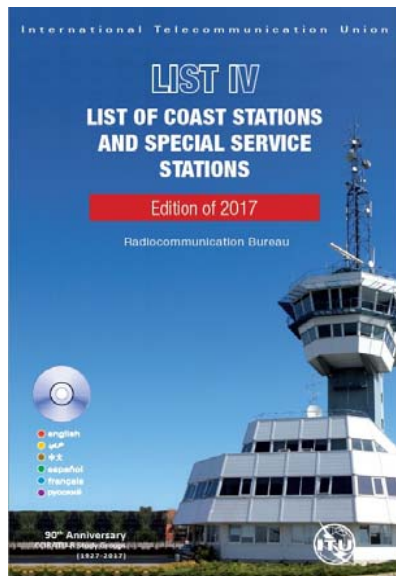
General

- **International shipping transports over 90 per cent of global trade worldwide.**
- Maritime mobile communications and radio navigation are key to the success of maritime trade, because they provide services such as:
 - maritime safety information, weather forecasts, ship position reporting and routing;
 - information to assist Search and Rescue authorities, when a vessel needs assistance, thus potentially avoiding the loss of life or property and protecting the environment;
 - public correspondence via a wide range of communication technologies in order to support safety of navigation, operational communications.

ITU Service Publications (maritime) and MARS

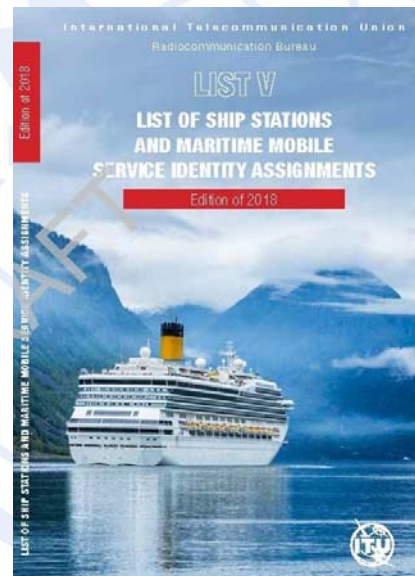
List IV

*List of Coast Stations and
Special Service Stations*
(RR 20.7)



List V

*List of Ship Stations and
Maritime Mobile Service Identity
Assignments*
(RR 20.8)



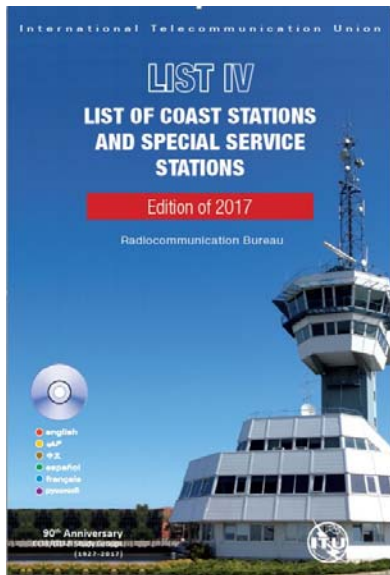
Maritime Manual

*Manual for use by the Maritime Mobile
and Maritime Mobile-Satellite Services*
(RR 20.14)



**Maritime mobile Access and Retrieval System
(RR 20.14A)**

List of Coast Stations and Special Service Stations (List IV)



This List is prepared and issued, once every two years, by the International Telecommunication Union (ITU), in accordance with provision No. 20.7 of the Radio Regulations (RR)

The carriage requirement for this List on board ships (vessels) is given in Appendix 16 to the RR

- It provides information that is considered useful for:
 - ships at sea, to contact coast stations; and/or
 - authorities involved in Search and Rescue (SAR) operations including the Global Maritime Distress and Safety System (GMDSS).

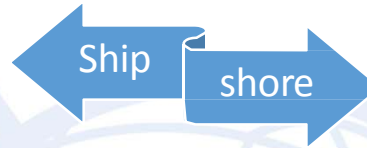
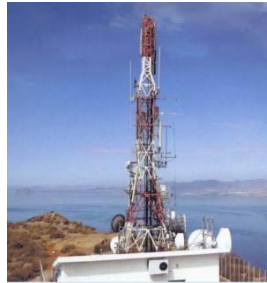
List of Coast Stations and Special Service Stations (List IV)



This publication contains useful operational information, such as the:

- name of coast (shore) station;
- MMSI and/or call sign;
- geographical coordinates, and contact information;
- Transmitting and receiving frequencies/channel numbers and hours of service, of:
 - Coast stations transmitting Maritime Safety Information; Medical advice; Meteorological bulletins; Radio time signals; Notice to navigators
 - RCC(s) - Rescue coordination centers (*MRCC, MRSC, JRCC*)
 - VTS - Vessel Traffic Services
 - Pilot stations
 - Port stations (*port operations service*)
 - CES - Coast Earth Stations
 - NAVAREA coordinators (*detailed meteo and navigational info in oceans areas*)
 - SAR - Search and Rescue agency addresses and contact information
 - Coast stations participating in NAVTEX (*Navigational and Safety messaging*)
 - Provides details of identification and characteristics of AIS radio Aids to Navigation

Example of Coast station data



CONSTANTA RADIO

Admin./Geo.Area symbol: ROU

MMSI: 002640570

Services: DSC-WATCH MED-ADVICE RCC(s)
METEO NOTICE-NAV CP NAVAREA

CP - Public correspondence service

Address : Incita Port
P.O. Box 1154
900900 Constanta
Romania

E-addr.: TF : +40 241 737102
FAX : +40 241 739469
FAX : +40 241 737103
EMAIL : arrivalro@radionav.ro
EMAIL : isps@constanta-radio.ro
EMAIL : arrivalro@constanta-radio.ro
EMAIL : isps@radionav.ro
URL : www.constanta-radio.ro
SAT : INMARSAT-C: +583492260041

Nature of Service : CP

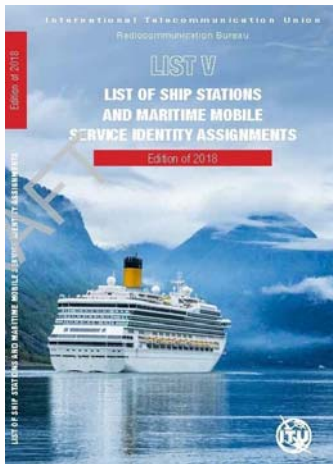
Num. Notes : CP1 CP2 CP3

Remarks :

Charge Notes : A B1 G H

Call Sign	Sel Call	MMSI	Latitude	Longitude	Priority	Tx Freq.	Unit	Rx Freq.	Channel	Emission Class	Freq. Band	Tx Power	Tx Hrs	Watch Hours	Remote Name	Num. Note	Remarks	
YQI			44°06'03"N	028°37'09"E		446.5	K			A1A	MF	0.4	Hp+00					
YQI			44°06'03"N	028°37'09"E		500	K	500		A1A	MF	0.4		H24				
YQI			44°06'18"N	028°37'49"E		156.8	M		C16	G3E	VHF	0.05		H24	AGIGEA			
YQI			44°06'18"N	028°37'49"E		161.8	M		C24	G3E	VHF	0.05		H24	AGIGEA			
YQI			44°12'00"N	028°40'00"E	C	2174.5	K	2174.5		F1B	MF	1		H24				
YQI			44°12'00"N	028°40'00"E		2182	K	2182		J3E	MF	1		H24				
YQI			44°12'00"N	028°40'00"E		2748	K	2748		J3E	MF	1	HP+33 (0633-1833)	0633-1933				
YQI			43°59'27"N	028°40'00"E		156.8	M		C16	G3E	VHF	0.025		H24	TUZLA			
YQI			43°59'27"N	028°40'00"E		161.8	M		C24	G3E	VHF	0.025		H24	TUZLA			
YQI			43°59'27"N	028°40'00"E		161.85	M	161.85		C25	G3E	VHF	0.025		H24	TUZLA		
YQI			44°51'15"N	028°52'00"E		156.8	M		C16	G3E	VHF	0.05		H24	ENISALA			
YQI			44°51'15"N	028°52'00"E		161.9	M		C26	G3E	VHF	0.05		H24	ENISALA			
YQI			45°05'17"N	029°04'21"E		156.8	M		C16	G3E	VHF	0.025		H24	MAHMUDIA			
YQI			45°05'17"N	029°04'21"E		161.8	M		C24	G3E	VHF	0.025		H24	MAHMUDIA			
YQI			45°05'17"N	029°04'21"E		161.9	M		C26	G3E	VHF	0.025		H24	MAHMUDIA			
YQI			44°53'57"N	029°36'11"E		156.8	M		C16	G3E	VHF	0.05		H24	SFINTU GHEORGHE			
YQI			44°53'57"N	029°36'11"E		161.95	M	161.95		C27	G3E	VHF	0.025		H24	SFINTU GHEORGHE		

List of Ship Stations and Maritime Mobile Service Identity Assignments (List V)



This List is prepared and issued, every year, by the International Telecommunication Union (ITU), in accordance with provision No. 20.8 of the Radio Regulations (RR).

The carriage requirement for the List on board ships (vessels) is mandatory, as stipulated in Appendix 16 to the RR

- It provides information that is considered useful to:
 - contact individual ships at sea;
 - assist maritime Search and Rescue (SAR) authorities in organizing their operations in the event that a ship is in a distress situation;
 - assist national administrations in identifying and monitoring vessels operating in their national waters.

List of Ship Stations and Maritime Mobile Service Identity Assignments (List V)



- Provides detailed operational information on the vessel, such as:
 - ❑ ship name, identification/or call sign, flag state of the vessel, type of vessel, national or IMO registration number, gross tonnage and radio communication equipment on board the ship.
- Provides details of the identification and maritime radio equipment on board aircraft involved in Search and Rescue (SAR aircraft).
- Provides contact information, such as the name and address of the accounting authority (AAIC), with the respective identification code.
- Provides contact information of administrations/geographical areas, that have notified ship station data for registration in the ITU maritime database.

Updates notified are made available via the BR MARS webpage on a daily basis.

Example of Ship Station data (pdf)

419000107 – 419000157

– 12660 –

Section I

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
419000107	AVFC	OCEAN REGAL		IND	E1G1	MM	TUG	8980438	278	12	S	STV	IN01		Ex-name: TSURUGI SR: VHF, MF/HF WITH DSC
419000108	AVFD	OCEAN MIGHTY		IND	BE1G1	MM	TUG	9154933	375	11		STUV	IN01		Ex-name: YONP YONG SAT: 441922855 SR: EPIRB, SART, INMARSAT C, VHF DSC, AIS, NAVTEX
419000115	AWQN	SCI SABARMATI		IND	2 EB2G2	OF	SOU	9607344	3306	24	S	STUV	IN02		Ex-name: GREATSHIP RAGINI SAT: 4419227470,4419227471,773802108,783403672 SR: INMARSAT-C, DSC, VHF, FBB
419000116	AVFL	MAHA JACQUELINE		IND	2 BE	MM	BLK	9185073	38667	30		STUV	BE09		Ex-name: ANNA SAT: 441922759,773154611 SR: VHF DSC, MF/HF DSC, INMARSAT C, FLEET BROADBAND, EPIRB406, RADAR
419000117	AVFM	DOLPHIN NO.2		IND	1 E1G1	MM	TUG			10	X	TUV	IN01		SR: MF/HF, VHF, AIS, GPS, NAVTEX, RADAR, SART, GMDSS W/T, EPIRB
419000120	AVFP	ADEL 1		IND	BE1G2	MM	TUG	9558880	486	12		STUV	NL01		Ex-name: CREST STAR 8 SAT: 441922752,441922753 SR: MF/HF, VHF, SAT-C, DSC, AIS, EPIRB
419000122	AVFR	OCEAN FAME		IND	BE1G2	MM	TUG	9448542	337	10		STUV	IN01		SAT: 441922856 SR: EPIRB, SART, INMARSAT C, MF/HF, VHF DSC, AIS, NAVTEX
419000123	AVFS	OCEAN LAUREL		IND	BE1G2	MM	TUG	9223368	301	10		STUV	IN01		Ex-name: DAEDONG NO.8 SAT: 441922766 SR: INMARSAT C, VHF DSC, EPIRB, SART, AIS, NAVTEX, SSB
419000124	AVFT	MAHA ROOS		IND	2 BE1	MM	BLK	9231004	38731	30		STUV	BE02		Ex-name: AFRICANA SAT: 341900193,441922786,773155313 SR: VHF DSC, MF/HF DSC, INMARSAT C, FLEET BROADBAND, EPIRB406,RADAR,
419000125	AVFU	SCI AHIMSA		IND	EB2G2	OF	RAV	9547257	2067	21	S	STUV	IN02		SAT: 44192396768,773151129,783155521 SR: INMARSAT-C, FBB, DSC, VHS
419000126	AVFV	SCI NALANDA		IND	EB1G2	OF	SOU	9575606	2633	21	S	STUV	IN02		SAT: 44192397172,773233143,783156216 SR: INMARSAT-C, FBB, DSC, VHS
419000127	AVFW	SCI URJA		IND	EB2G2	OF	RAV	9547269	2067	21	S	STUV	IN02		SAT: 44192409192,77315869162,773158692,783204626 SR: INMARSAT-C, FBB, DSC, VHS
419000128	AVFX	SCI YAMUNA		IND	EB2G2	OF	SOU	9575618	2633	21	S	STUV	IN02		SAT: 44192404041,773233974,783207273 SR: INMARSAT-C, FBB, DSC, VHS
419000129	VVRT	BHAGAVATI		IND		MM	TUG		329	11					SR: INMARSAT-C
419000133	AVGB	BAHUDA		IND	1 E1G2	MM	TUG	9517824	472	10		TUV	NL01		Ex-name: POSH BAHUDA SR: VHF DSC, EPIRB406, RADAR, AIS, MF/HF RT
419000138	AVGG	ALBATROSS 19		IND	2 E1G2	OF	RAV	8108365	307	14	SX	STUV	IN01		Ex-name: AL SIDRIYEH SAT: 441922785 SR: VHF, SAT-C, AIS, EPIRB, SART, GMDSS VHF X 2
419000139	AUSY	MALHARI		IND	1 B2G2	MM	CHM	9414333	8625	30		STUV	IN01		SAT: 444149227,764902595,773234627 SR: INMARSAT-C, MF/HF, VHF, DSC, RADAR, AIS, EPIRB 406, FLEET 77
419000141	AVGH	ADEL 2		IND	BE1G2	MM	TUG	9560900	486	12		STUV	NL01		Ex-name: CREST STAR 1 SAT: 441922770,441922771 SR: MF/HF, VHF, SAT-C, DSC, AIS, EPIRB
419000146	AVGM	OCEAN MELODY		IND	BE1G2	MM	TUG	9152454	353	12		STUV	IN01		Ex-name: IWATE MARU SAT: 441922783 SR: INMARSAT C, MF/HF TRANSCEIVER, EPIRB, SART, VHF DSC, AIS, NAVTEX
419000147	AVGN	SURYA SHAKTI		IND	E1	MM	TUG	9244324	184	10		STUV	IN01		
419000152	AVGS	SUNRISE-II		IND			TUG	3727	68	10					SR: VHF DSC, MF DSC, EPIRB, SART, AIS
419000154	AVGU	KIRAN		IND	2 BE1G2	MM	BLK	9000649	91651	29		STUV	NL01		Ex-name: JHONNY K SAT: 441922794,441922829 SR: MF/HF-DSC, VHF, DSC, INMARSAT-C
419000155	AVGV	OCEAN ELEGANCE		IND	BE1G1	MM	TUG	9413169	337	10		STUV	IN01		Ex-name: SAMHO T-3 SAT: 441922838 SR: INMARSAT C, VHF DSC, EPIRB, SART, AIS, NAVTEX, SSB
419000156	AVGW	TUHINA		IND	2 BE1G2	MM	BLK	9177765	7918	20		STUV	NL01		Ex-name: ACTIVE SAT: 441922848,441922863,773236902 SR: MF/HF-DSC, VHF, DSC, INMARSAT-C, FB-150
419000157	AVGX	TVISHA		IND	2 BE1G2	MM	BLK	9177791	7918	20		STUV	NL01		Ex-name: ACCURATE SAT: 441922848,441922863,773236902

1	MMSI
2	Call sign
3	Selective call number
4	Name of station
5	Administrational Geographical area
6	Lifeboats
7	Auxiliary installations (EPIRBs)
8	General classification
9	Individual classification
10	Registration number
11	Gross tonnage
12	Capacity of persons on board
13	Telegraph transmission frequency bands
14	Telephone transmission frequency bands
15	Accounting Authority Identification Code (M I C)
16	Additional information

Example of Ship Station data (database)

The image displays two overlapping screenshots of a web-based application for ship station data. The top window, titled "Ship Stations Retrieval System", shows a search interface with a search string of "adel 2" and a table of results. The bottom window, titled "Particulars of Ship Station", shows the detailed information for the selected ship station.

Ship Stations Retrieval System

Enter full or partial search string:

MMSI	Ship Name	Call Sign	EPIRB	Country
419000141	ADEL 2	AVGH	BE1G2	India

Note: Click any item above to display the particulars.
Retrieving Row: 1 (in 2 seconds)

Particulars of Ship Station

Details of Ship Station

1. MMSI: 419000141
2. Call Sign: AVGH
3. Ship Name: ADEL 2
4. Selcal No.(s):
5. Admin./Geo. Area: India
6. Boats: 0
7. EPIRBs: BE1G2
8. Ship Class: MM
9. Ind. Class: TUG
10. Vessel Id. No.: 9560900
11. Gross Tonnage: 486
12. Person Capacity: 12
13. RTG Band:
14. RTF Band: STUV
15. AAIC: NL01
AAIC SAT: NL01
16. Owner: M/S ADEL SHIPPING & LOGISTICS LIMITED
Inmarsat No.(s): 441922770,441922771
EPIRB Hex ID: B468D34D74A74D1
EPIRB ID (MMSI or MID+Call sign): 419000141
Corresp.: CP
Terr-Serv.:
Hours: HX
Ex Ship-Name: CREST STAR 1
Ex Call Sign: 9V8018
Radio Installation: MF/HF, VHF, SAT-C, DSC, AIS, EPIRB

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Manual for Use by the Maritime Mobile and Maritime Mobile-Satellite Services

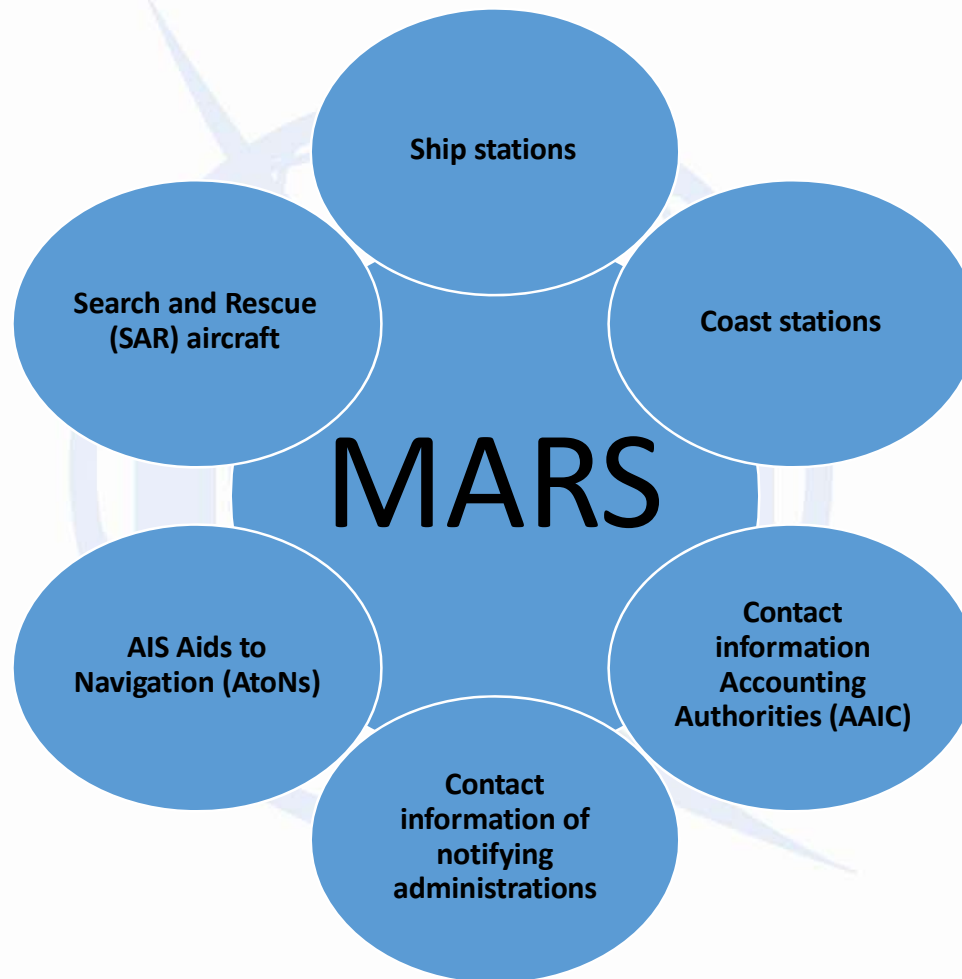


This is a reference publication that has been designed to be of use to radio operators in the maritime mobile and maritime mobile-satellite services.

The carriage requirement for this List on board ships (vessels), is given in Appendix 16 to the RR

- It provides the maritime community with a compilation of treaty, regulatory, technical, operational and other ITU texts, relevant to the maritime mobile and maritime mobile-satellite services.
- It contains all pertinent extracts from the ITU Constitution and Convention, Radio Regulations, Telegraph and Telephone Regulations and associated ITU-T and ITU-R Recommendations, on the maritime mobile and maritime mobile satellite services.
- It is used as a part of the training provided to administrations concerning the operational and regulatory procedures for distress communications in the global maritime distress and safety system (GMDSS), in compliance with the ITU Radio Regulations.

MARS Maritime mobile Access and Retrieval System



<http://www.itu.int/en/ITU-R/terrestrial/mars/Pages/default.aspx>

MARS webpage

Maritime mobile Access and Retrieval System (MARS)

YOU ARE HERE [HOME](#) > [ITU-R](#) > [TERRESTRIAL SERVICES](#) > [MARS](#)

SHARE    

Ship Stations

Using specific search criteria, such as the ship name, call sign, MMSI, EPIRB Hex Id code, IMO or national registration number, users can retrieve operational information of ship stations that have been notified to the ITU Radiocommunication Bureau.

This information may be of use to the maritime community to contact individual ships at sea and/or assist maritime Search And Rescue (SAR) authorities in their activities.



Quick links

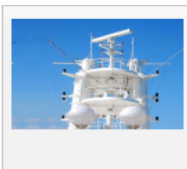
General references

Maritime publications

- Download ship stations, coast stations, and MMSI assigned to AtoN and SAR aircraft. **(Restricted Access)**
- Radio Regulations (Edition 2016)
- Maritime Identification Digits (MID)
- International Call Sign Series
- Assignment and use of identities in the maritime mobile service (MMSI) (Recommendation ITU-R M.585)
- Accounting Authorities (Recommendation ITU-T D.90)
- BR Maritime Circular Letters (CM Series)



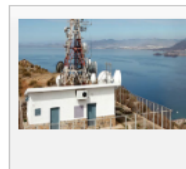
SHIP STATIONS



[Retrieval of information >](#)

[How to notify >](#)

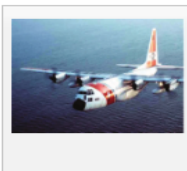
COAST STATIONS



[Retrieval of information >](#)

[How to notify >](#)

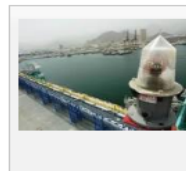
SAR AIRCRAFT STATIONS



[Retrieval of information >](#)

[How to notify >](#)

AIS AIDS TO NAVIGATION



[Retrieval of information >](#)

[How to notify >](#)

ACCOUNTING AUTHORITIES

ADMINISTRATION INFORMATION

UNECE - UN/LOCODE

The "United Nations Code for Trade and Transport Locations" is commonly more known as "UN/LOCODE".

[UN/LOCODE - Code List by Country](#)

[Amendments to Lists IV & V](#)

[FAQs](#)

- List IV - Compilation of amendments to the List of Coast Stations and Special Service Stations
- List V - Compilation of amendments to the List of Ship Stations and Maritime Mobile Service Identity Assignments

Contact information

Voice: +41 22 730 5560

Fax: +41 22 730 5785

Email: brmail@itu.int

ITU Service Publications (maritime) and MARS

Who are the users?



Rescue Coordination Centers & Search and Rescue Units

Other Administration Agencies

- Port operations & Vessel Traffic Service (VTS)
- Offices in-charge of licensing & notification of ship, coast stations and other maritime stations
- Border monitoring - customs, Fisheries monitoring, Inspection and control of shipping
- Coast stations for commercial radio-traffic



Maritime community

- Shipping companies and Agencies
- Accounting Authorities (AAICs)
- Maritime Universities and training centers
- Commercial port authorities
- Fishing and pleasure users



ITU Service Publications and MARS

- Statistics -

- Contains details on **800 000** vessels.
- almost **600,000** stations are notified with an MMSI;
 - ✓ 40 000 stations notified with satellite communication terminal numbers
 - ✓ 2 100 coast radio stations
- Data received from **191** administrations/geographical areas
- Over **2 000** AIS Aids to Navigation (AtoNs)
- Contact information of over **800** accounting authorities

Examples of various types of vessels that have been entered into the MARS database.



Yachts



Ice breaker



Passenger



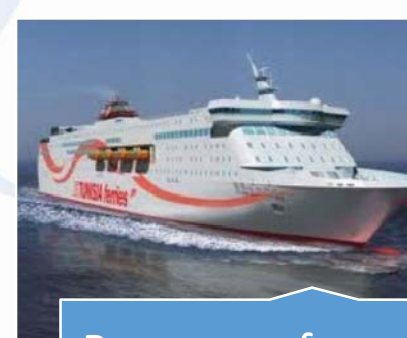
Cargo



Gas carrier



Car ferry



Passenger ferry

Coast stations that form part of Shore-based arrangements for GMDSS?



Rescue coordination centers (MRCC, RCC, MRSC, JRCC); Watch-keeping using digital selective calling techniques (DSC)



Sending Maritime Safety information; medical advice; Meteorological bulletins; Radio time signals; notice to navigators



Port station; Pilot station; VTS station, providing port and traffic management services



Public correspondence service



Coast earth stations



Automatic identification System

Have you notified this information to the ITU Radiocommunication Bureau (BR)?

REMINDER

Radio Regulations
provision 20.16



- Administrations **shall** take all appropriate measures to **notify** the Radiocommunication Bureau **immediately** of any changes in the operational information contained in List IV (Coast stations) and **List V (Ship stations)**, in view of the importance of this information, particularly with regard to safety.
- In the case of the data published in List V, which is also made available online through MARS, administrations shall communicate those changes at least once a month.
- In the case of other publications, administrations shall communicate the changes in the information contained in them as soon as possible.



Thank you

**Please remember to visit
the WRS-18 Exhibition
located at the entrance of the
ITU Montbrillant building**