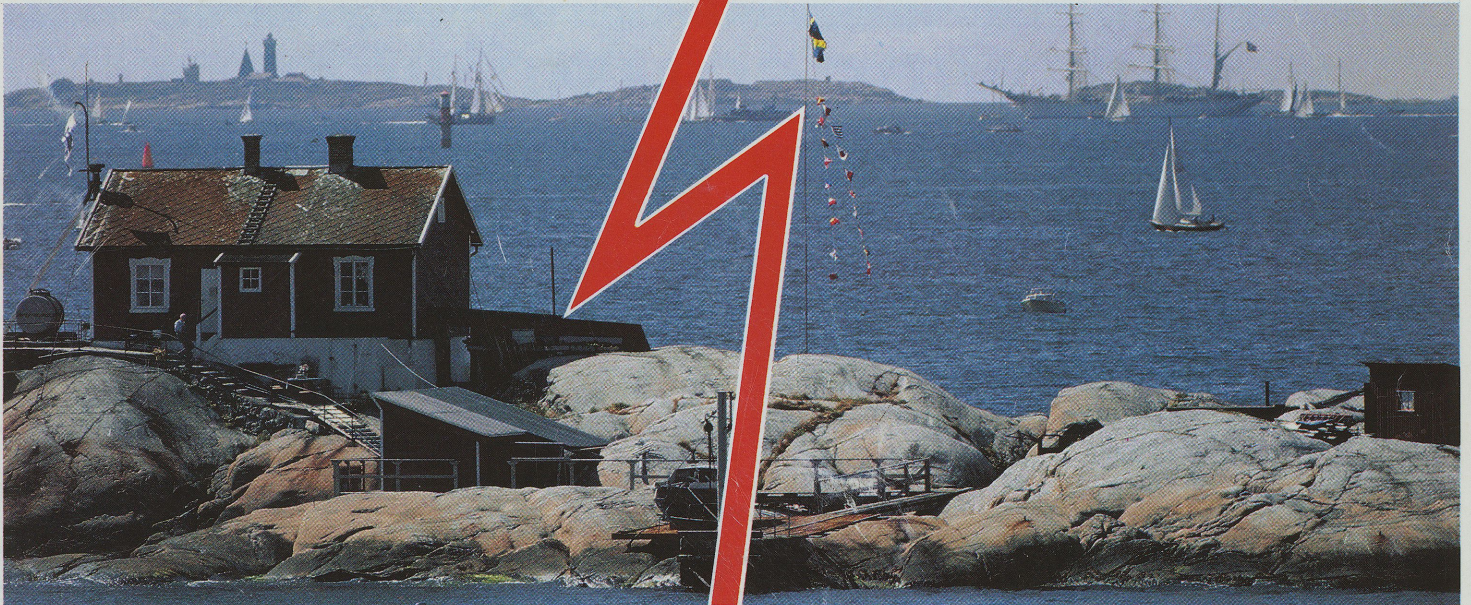




GÖTEBORG

RADIO/SAG

1986



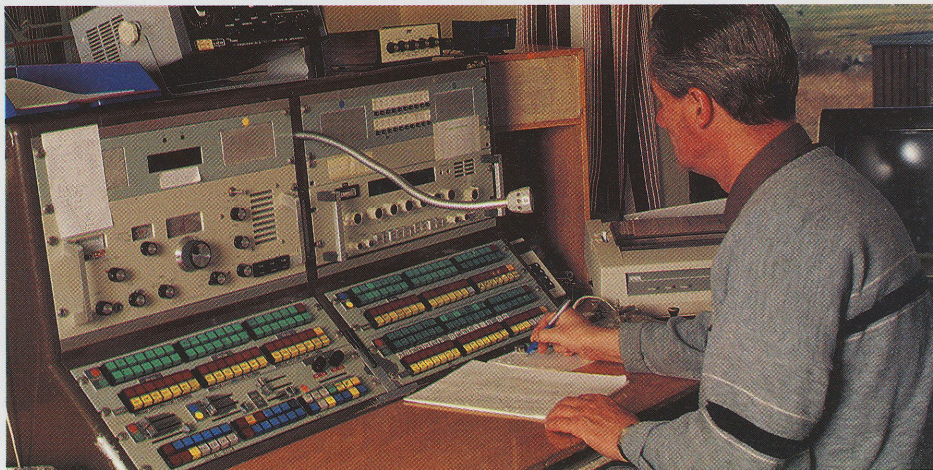
**FOR RELIABLE RADIO COMMUNICATION
WITH SHIPS ON ANY SEA**



GÖTEBORG RADIO/SAG FOR RELIABLE RADIO COMMUNICATION WITH SHIPS ON ANY SEA

GÖTEBORG RADIO is a modern coast radio station, located on the Swedish west coast, south of Gothenburg. Its callsign "SAG" is well known to ships throughout the world.

SAG provides world-wide radio communications for all merchant ships. Modern equipment and friendly, efficient operators guarantee dependable telephony and telegraphy services. Our automatic radiotelex system, called MARITEX, is a complete success.



WORLD-WIDE COMMUNICATION



HF TELEPHONY SERVICE

A number of effective rotary and fixed antennas permit radiotelephone communication even with ships at extreme range. High-powered radiotelephone transmitters allow very good quality link-calls to be connected.

The operators will dial most of your calls direct, requiring the assistance of international exchange operators only in special cases.

Using the GÖTEBORG RADIO HF telephony service speeds matters up as your calls are put through without delay.



HF TELEGRAPHY SERVICE

By means of an automatic scanning device, the SAG operators keep a round-the-clock watch on the telegraphy calling channels indicated in the CQ slip. Watch is set on the various frequency bands in accordance with radio propagation conditions.

The receiving and transmitting antenna systems include highly directive log-periodics, one for each of six sectors as shown in the SAG Chart for HF traffic.

Traffic lists are broadcast at each odd hour UTC. Additionally, a rolling traffic list, continuously updated, is transmitted in between the CQ announcements.

MARITEX - THE GLOBAL SYSTEM



MARITEX is a pioneer in Radio Telex and ever since operation started in the early seventies, our ambition has been to develop the system in accordance with requirements and guidelines received from our customers.

It is a well-known fact that the laws of nature limit short-wave communication in terms of geographical range. Using modern technology, MARITEX has bypassed those laws.

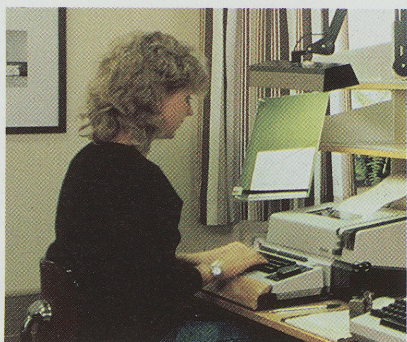
Through an agreement with INTEL Panama, we have linked radio telex equipment at INTELMAR RADIO with

the Central MARITEX Computer at Gothenburg Radio for direct and full control. In other words – we have created a system giving global coverage, where even ships at extreme range can be offered fast and reliable telex communication.

This is a virtual breakthrough in Radio Telex. MARITEX now rivals Satcom performance – and at very competitive rates!

Only MARITEX can offer fully automatic Radio Telex with global coverage.

HOW TO GET IN TOUCH



SHORE- TO- SHIP

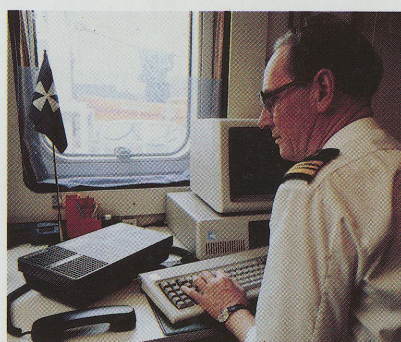
MARITEX accepts shore-to-ship messages from telex subscribers all over the world, without restrictions.

Dial the ship's telex number from anywhere in the world, and your message is on its way.

The ship is automatically activated, and the message printed out on board without the attention of a Radio Operator.

MARITEX selects frequency, directional antenna and the appropriate sub-station for optimum circuit quality.

Traffic in both directions is entirely computerized with no intermediate manual handling at the coast station. Only the sender of a message is active in the MARITEX communication process.



SHIP- TO- SHORE

A simple operator command initiates the call and when a circuit has been established, the system guides the operator through a simple command sequence, all the way from identity checks to transmission of the message and finalization.

MARITEX offers direct telex links between ship and shore including conversation mode and optional store-and-forward procedures.

There is a special facility for the efficient handling of multiple addressed messages.

After each message exchanged, MARITEX indicates transmission time and duration of the call.

EASY TO HANDLE



Anyone can send a telex via MARITEX. All technical functions in the ship terminal have been preprogrammed. Telex messages are transmitted through a simple push-button procedure.



What about MARITEX in these regions?
No problem – we are here too.

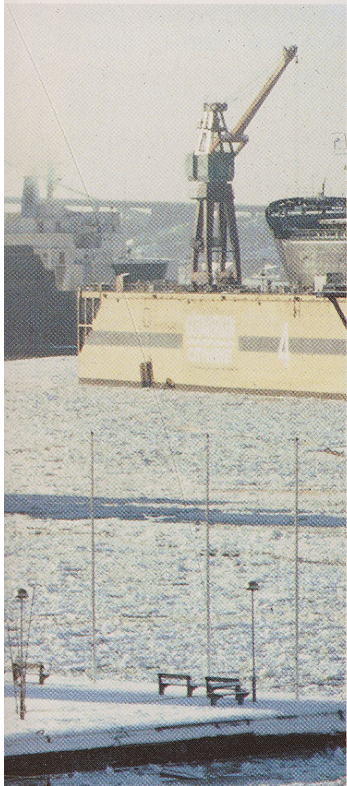
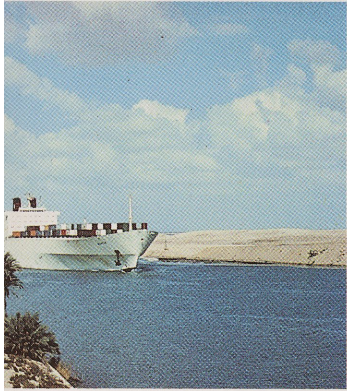


JOIN T

THE SHIPBOARD EQUIPMENT

To ensure fully automatic shore-to-ship delivery of messages, and also consistently high system performance, certain minimum quality demands have to be met. There should be an auto-tuned transmitter, a scanning receiver and a radio telex modem with free-signal detection.

The ship terminal is not specialized or dedicated to MARITEX, but can also be used in any other radio telex system.



THE MARITEX FAMILY

RENT, LEASE OR BUY

Major manufacturers of radio telex equipment have adopted the MARITEX standards. They supply complete terminals or upgrade existing equipment to MARITEX level.

A MARITEX terminal may be leased, rented or purchased, all depending on your individual needs.

We can always advise you on the best possible solution.

HOW TO ENTER MARITEX

Ships of any nationality can join MARITEX. The system has gradually become a Radio Telex "U.N.", with member ships sailing under more than 30 national flags.

Application for entrance is made on a special form obtainable from us. After a simple commissioning procedure, a ship has full access to all MARITEX services.

There are no entrance or annual fees, only the traffic exchanged in the system is chargeable.

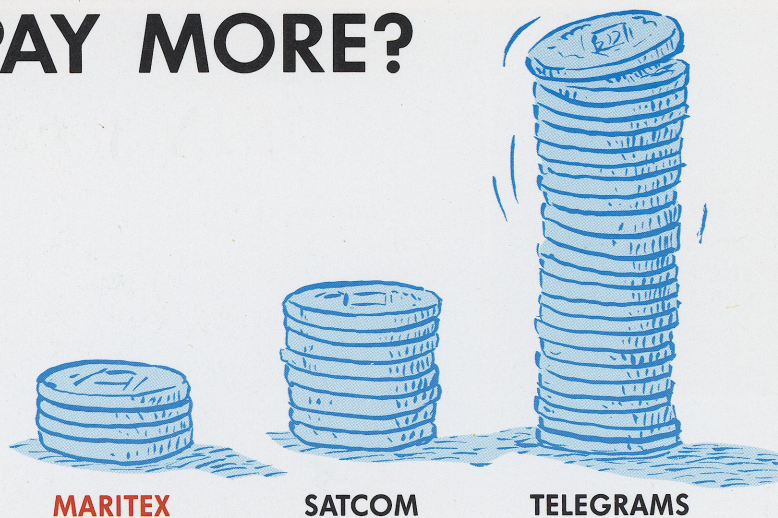
WHY PAY MORE?

Economy is essential in the shipping business. Communication costs are no exception.

Your question: How can I minimize costs and still get the best possible quality? Our short answer: Join MARITEX.

Only MARITEX has the means to offer a system with a performance approaching that of Satcom, but at half the traffic rates.

Not to mention the cost of the equipment...



EASY CONTROL OF COMMUNICATION COSTS



The MARITEX concept gives the owner/manager another very attractive advantage: itemized monthly invoices covering all ship-to-shore traffic, mailed direct to your office.

Attached to each invoice is a statement giving the following particulars:

- date
- address telex number
- duration
- amount charged

Our invoices are free of unspecified surcharges. They serve the purpose of easy internal control and give you a clear picture of the communication costs for each vessel.

Again - MARITEX IS ONE STEP AHEAD!

AND YOU WILL GET MORE



As a member of the rapidly growing MARITEX family you will enjoy all the benefits of a vigorous system, capable of continuous technical development.

MARITEX will be introducing an automatic position tracking and alarm system. By interfacing the navigator equipment with the MARITEX ship termi-

nal, the ship's position is automatically sent to and stored in the Central Computer. From there it can be sent automatically or by request to any authorized telex subscriber. In addition to this strictly commercial use, this facility can also directly alert the Gothenburg Radio Rescue Centre in distress situations.

MARITEX also provides additional services like Radio Telex Letters, Phono-Telex and Free Medical Advice.

Research is also being carried out on TELEFAX and ON-LINE DATA communication.

VHF/MF - FOR COASTAL AND MEDIUM RANGE SERVICES

GÖTEBORG RADIO keeps a continuous watch on the international distress and calling frequencies: 500 kHz, 2182 kHz and VHF channel 16.

We operate some 20 remote-controlled VHF stations covering the Swedish west coast, Lakes Vänern and Vättern and the channels. Please note that your VHF equipment may also be used in ports and on inland waterways.

Your calls will be quickly connected by our experienced operators. Traffic lists, weather forecasts and ice reports (winter season) are transmitted at regular intervals, and gale and navigational warnings whenever necessary.



SEA RESCUE CENTRE



GÖTEBORG RADIO also acts as a Maritime Rescue Coordination Centre: taking life-saving action is part of our work.

MRCC GÖTEBORG is responsible for sea rescue operations along the western seaboard of Sweden and on Lakes Vänern and Vättern.

All personnel engaged in search and rescue work receive high-level specialist training and must pass a qualifying examination.

When there is an emergency at sea, the Rescue Coordination Officer will assess the situation carefully and decide what form the rescue action will take, dispatching offshore rescue vessels, rescue helicopters or fast inshore life-boats, as the case may be.

At MRCC GÖTEBORG 1,300 emergencies were dealt with during 1986.

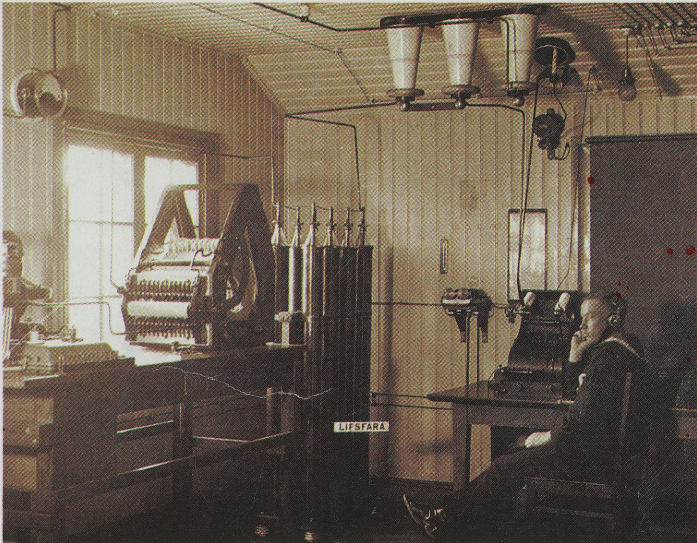
AMVER AND RADIO MEDICAL TRAFFIC

GÖTEBORG RADIO will accept, on all frequencies, messages according to the AMVER system for improving sea rescue work in the oceans of the world. Thousands of ships regularly send sailing plans and position reports to the AMVER Computer Centre at the United States Coast Guard in New York.

If you require urgent medical advice, the SAG operator will connect you, free of charge, to a hospital doctor, by telephone. You could also send a medical message to us, using Morse or Maritex.



GÖTEBORG RADIO - ALWAYS A PIONEER

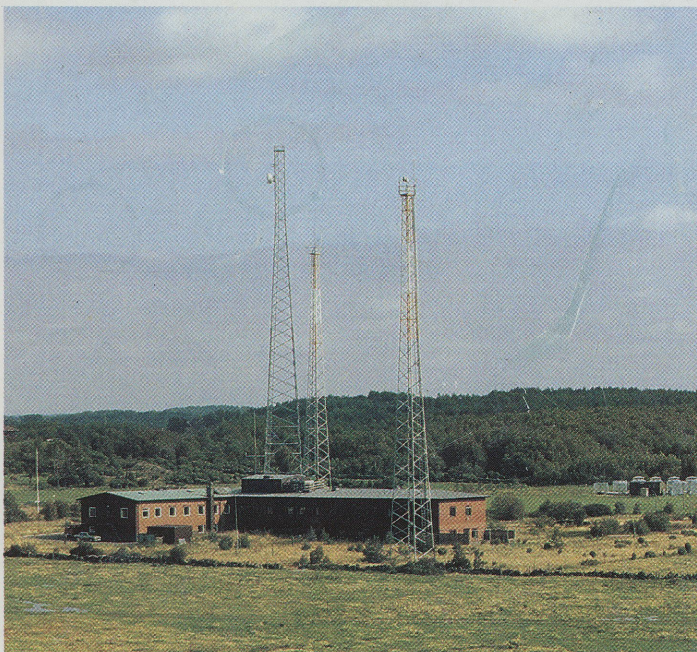


GÖTEBORG RADIO/SAG is one of the oldest and most experienced coast radio stations in the world. In September 1911 Swedish Telecom Radio opened GÖTEBORG RADIO for public correspondence and it has been a pioneer of marine radio communications ever since. Offering:

- HF telegraphy since 1930
- HF telephony since 1937
- Search and Rescue Coordination since 1949
- VHF telephony since 1961
- MARITEX automatic radiotelex since 1971



GÖTEBORG RADIO TODAY



Present-day GÖTEBORG RADIO is a technically advanced coast station performing a number of duties by means of new and flexible operating positions that make full use of modern computer technology.

The staff of about 50 includes radio operators, search and rescue coordinators, technicians and administrative personnel.

The GÖTEBORG RADIO control, receiving and traffic handling centre is located on the Onsala Peninsula, with remote-controlled transmitter plants at Vallda, Grimeton, Härnösand and Karlsborg.

Also in Onsala, in fact, under the same roof, is the Maritime Rescue and Coordination Centre Göteborg.

In a single year GÖTEBORG RADIO handles:

- 60,000 radiotelephone calls
- 50,000 radiotelegrams
- 500,000 radiotelex messages via MARITEX



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