

BELGICA - Communication resources

I. Overview of communications resources.

Primary resources

Belgica e-mail address:	<u>belgica@mumm.ac.be</u>
Belgica moored in Zeebrugge:	
• Tel.: Commandant	050 55 80 37
• Ship's office	050 55 80 36
• Fax.:	050 54 59 79
Belgica at sea near land.	
• GSM :	00 32 475 44 27 37
Belgica at sea.	
• Tel. 1 SATCOM INMARSAT mini M with SIM(*):	00 870 76 218 73 27 (**)
• Tel. 2 SATCOM INMARSAT mini M with SIM(*):	00 870 76 218 73 28 (**)
• Fax. SATCOM INMARSAT – fleet 77	00 870 76 463 27 43 (**)

(*) SIM card for communications via France Telecom SATCOM ground station subscription.
(**) 870 is the INMARSAT single access code. If problems try 874, 871, 872: the Atlantic Ocean West, East and Pacific Ocean region INMARSAT codes respectively.

Back-up resources

Belgica moored in Zeebrugge	
• Tel. (fax. line):	050 54 59 79
• GSM :	00 32 475 44 27 37
Belgica at sea.	
• Tel. SATCOM INMARSAT mini M no SIM:	00 870 76 226 49 72
• Tel. 1 SATCOM INMARSAT – fleet 77 (*):	00 870 76 463 27 41
• Tel. 2 SATCOM INMARSAT – fleet 77 (*):	00 870 76 463 27 42
• Fax. SATCOM INMARSAT mini M with SIM(**)	00 870 76 218 73 29
• Fax. SATCOM INMARSAT mini M no SIM(**)	00 870 76 226 49 73

(*) The SATCOM-fleet 77 communications are more expensive than those with the mini M, also from the shore.
(**) If the SATCOM fleet 77 fax line does not work for the SATCOM mini M fax line from the shore, prior telephone contact with Belgica is required.

2. Communication guidelines and costs for scientists on board.

1. Belgica communications moored in Zeebrugge

- Telephone communications.
 - The scientists on board are reminded that the Belgica on-board GSM may only be used in exceptional cases: business calls solely relating to the operational performance of the campaign (for example consultation with the MUMM measurement department), and in the event of emergencies.
 - For other business calls to the institution/the laboratory and for private calls, the scientists must use their own mobile phones.
- Fax.
 - The on-board fax may be used in exceptional cases. See above.
- E-mail.
 - As an exception the Belgica e-mail facilities may be used on condition that the on-board telegrapher is available.
 - The price, including the “handling charge” charged by the INMARSAT HUBlink provider (store and forward) is: **0.10 euros per 100 kByte with a minimum of 1.00 euro.**

2. Communications in a foreign port or at sea near the coast.

- **GSM communications.**
 - See “Telephone communications” above.
- **Fax and e-mail communications.**
 - See “Belgica communications at sea”.

3. Belgica communications at sea.

- SATCOM mini M telephone and SATCOM – fleet 77 fax
 - On the bridge, the line has to be requested through the watch officer.
 - In normal circumstances the SATCOM mini M system is used for telephone calls, and the SATCOM – fleet 77 for fax (less expensive).
 - For telephone calls with the INMARSAT mini M system, scratch cards can be obtained from the telegrapher. **The price is 3.70 euros per minute.** The units used are settled-up at the end of the campaign.
 - The SATCOM – fleet 77 fax communications and the telephone communications via the mini M system without scratch card or via the SATCOM fleet 77 system are done under the supervision of the telegrapher, who in these cases **calculates the price using the @SEALOG program** (supplied by the INMARSAT Accounting Authority).
 - The @SEA(log) program applies a “handling charge” of 5% or 10% for each call depending on the telecom operator used, as well as a “connection charge” of 0.50 euros per communication. **The person concerned receives a copy of the calculation as proof.**

- **E-mail (via SATCOM – fleet 77)**
 - The e-mail files to be sent from Belgica to the shore have to be given to the **telegrapher**.
 - The e-mail files to be sent from shore to Belgica have to be addressed to **belgica@mumm.ac.be**.
 - In order to minimise the communication costs, you are strongly advised to compress text files (**WINZIP**).
 - The **e-mails are sent 2 x per day** (around 10:00 and 19:00 local time) and e-mails are collected from the shore at the same time.
 - **Urgent messages** can be sent outside these fixed times:
 - The watch officer has to be contacted for urgent messages that have to be sent from **Belgica to the shore**.
 - **Prior telephone contact with Belgica** is required for urgent messages from the **shore to Belgica**.
 - The **communication costs** for making the SATCOM link for these simple messages are substantial. When using the “low speed” link, an **additional amount of 2.50 euros** is charged (see price).
- **Cost of high speed communications (64 kbaud): shore – Belgica and Belgica - shore**
 - The high speed communications should preferably be used (via INMARSAT Accounting Authority).
 - MUMM makes no distinction between SATCOM peak and off-peak communication times in the calculation of the price.
 - **Price: 0.02 euros/kbyte with a minimum of 1.00 euro.**
 - Only for urgent messages relating to the ongoing campaign that have to be sent outside the fixed times are the above costs NOT increased. In other cases the above **costs are increased by 1.00 euro** unless they are sent jointly with urgent messages from Belgica itself.
- **Price of low speed communications (9600 baud): shore – Belgica and Belgica - shore**
 - The low speed communications are only used as a back-up.
 - MUMM makes no distinction between SATCOM peak and off-peak communication times in the calculation of the price.
 - **Price up to 20 kbyte: 0.10 euros/kbyte with a minimum of 1.00 euro**
 - **Price as of 20 kbyte: 1.00 euro + 0.05 euro/kbyte**
 - The above **costs are increased by 2.50 euros** for **urgent messages** that cannot be sent at the fixed points in time, unless they are sent jointly with urgent messages from Belgica itself.