



USEFUL INFORMATION 23/06/2012

Note on the omnidirectional pinger

The omnidirectional pinger will ping 1 pulse per second, at the frequency of 15 kHz, will have the pulse length of 10 ms, and will have a power output of 153.5db at 1m.

Note on slots at final run

Teams competing at final run can choose:

- One slot of 50 or 60 min. Same rules applying, obligation to declare before the run if it is wanted to be counted.
- Two slots, morning and afternoon, and the best one counts. Depending how many teams qualify these slots might be shorter than 50 min but they will for sure not less than 30 min. Of course, the second slot can be asked to be cancelled if the team is happier with the first one, or can be used to perform Task 7, etc.

Note on Trittech acoustic modem

Matthias Goldhoorn from DFKI Bremen shared very useful information about some problems that his team encountered using the Trittech modem. A modem version that they have resets itself after 15 minutes. They played around with some protocols and figured out that an additional bit synchronization is needed.

For these reasons they implemented the HDLC (http://en.wikipedia.org/wiki/High-Level_Data_Link_Control) protocol on top of the modems. They strongly recommend to all teams to use this synchronization too, otherwise an CRC check summing isn't enough and wouldn't fix the problem (at least in their case).