

## Deployment Niskin carrousel - software CTD Belgica (Seasave V7)

\*\*\*\* the voltage switch at deck 6 in the operator room needs to be switched on; when you are in the operating room, go to the left where all the harddrives are, go to rack 13 -> CTD On/off (has to be on!)\*\*\*\*

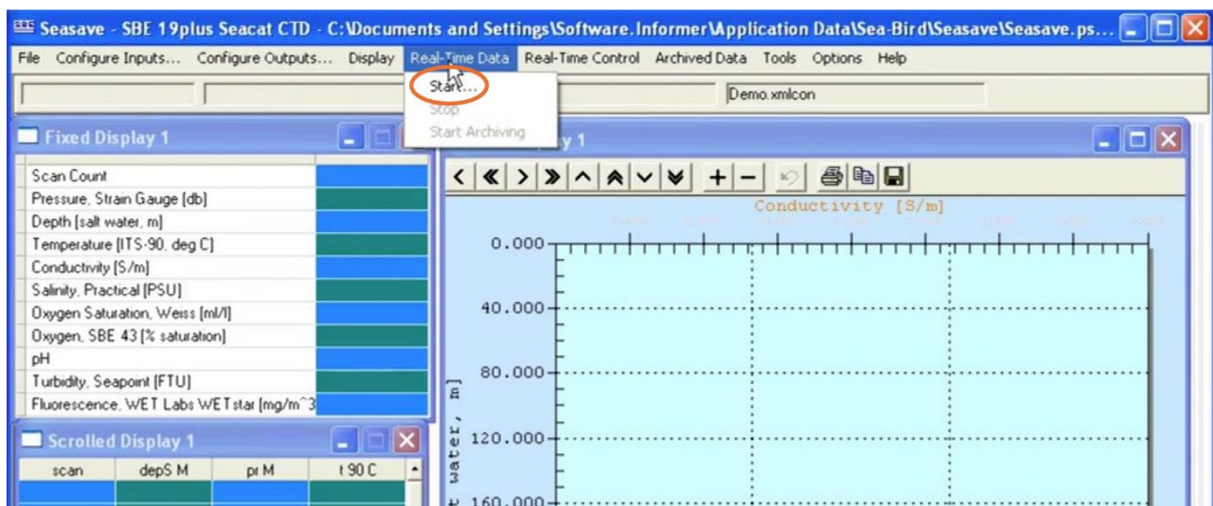
\*\*\*\* Niskin bottles should be in balance, same number of bottles on each side; we need five, but additional bottles are adviced in case one bottle is not closed well there are extra bottles available; make sure the bottles on the carrousel are those with the good knots on the bottom (if the pieces of rubber at the end of the knot is too long, the bottle will not close properly)\*\*\*\*

\*\*\*\* Check whether the red caps are removed from the sensors below the CTD on the carrousel\*\*\*

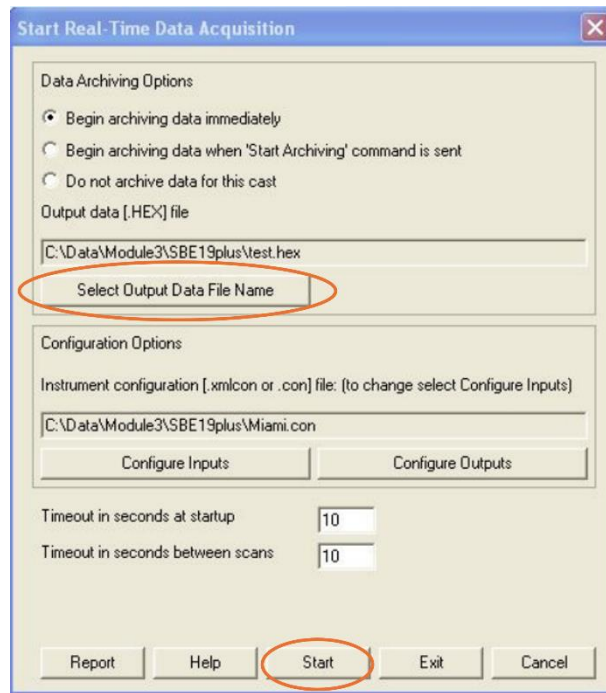
Computer in lab with freezers and big screen:

CTD-1 should be selected on the big screen, click button with three small circles to open software

Tab "Real-Time Data"



Select "Start" => a new display opens: Start Real-Time Data Acquisition



Select "Select output Data Filename" => add the file name = name of fishtrack

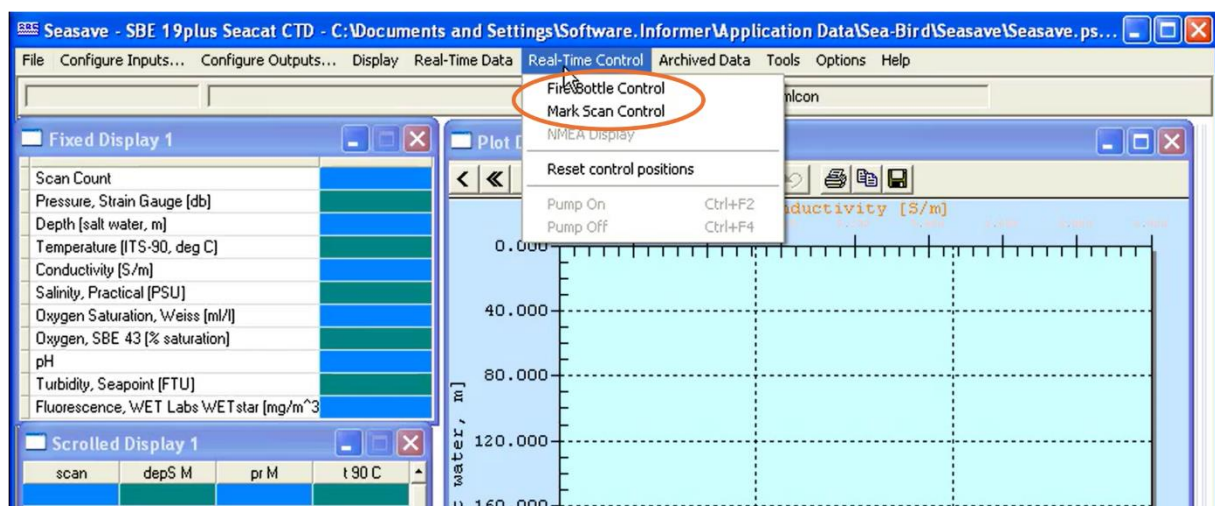
Select "Start" => a new display opens

Select "Header information" => add name fishtrack

Select "OK" => a new display opens:

"Establishing communication with instrument; initializing water sample": here it is important to have connection, for this the switch at deck 6 needs to be in position "on"

Tab "Real-Time Control":

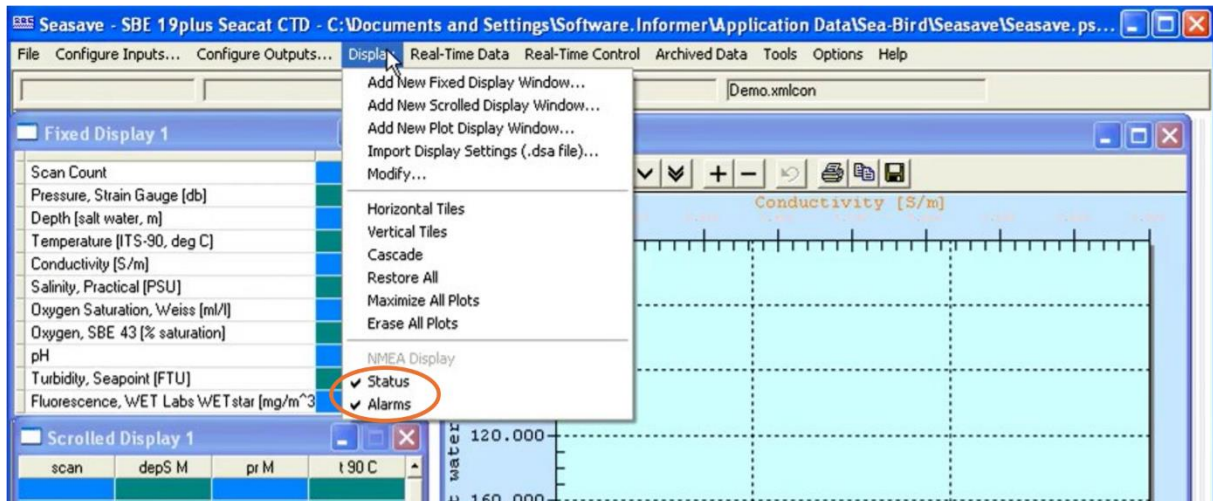


Select "Fire bottle control"

Select "Mark Scan Control"

⇒ By selecting these two options they are shown on the screen and is it easy to fill them in

## Tab "Display"



Select "Status"

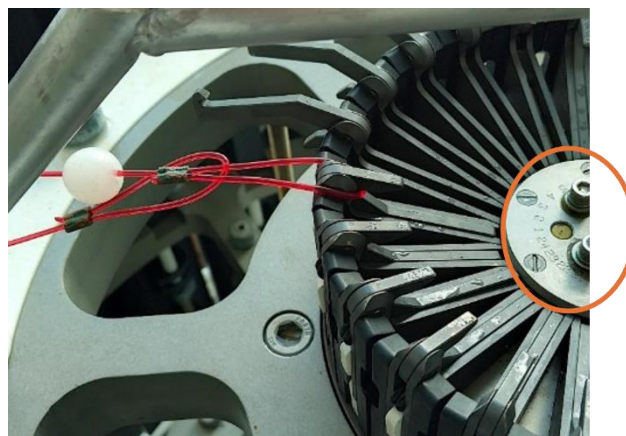
Select "Alarms"

⇒ By selecting these two options they are shown on the screen and is it easy to fill them in

## Display "Fire Bottle Control"

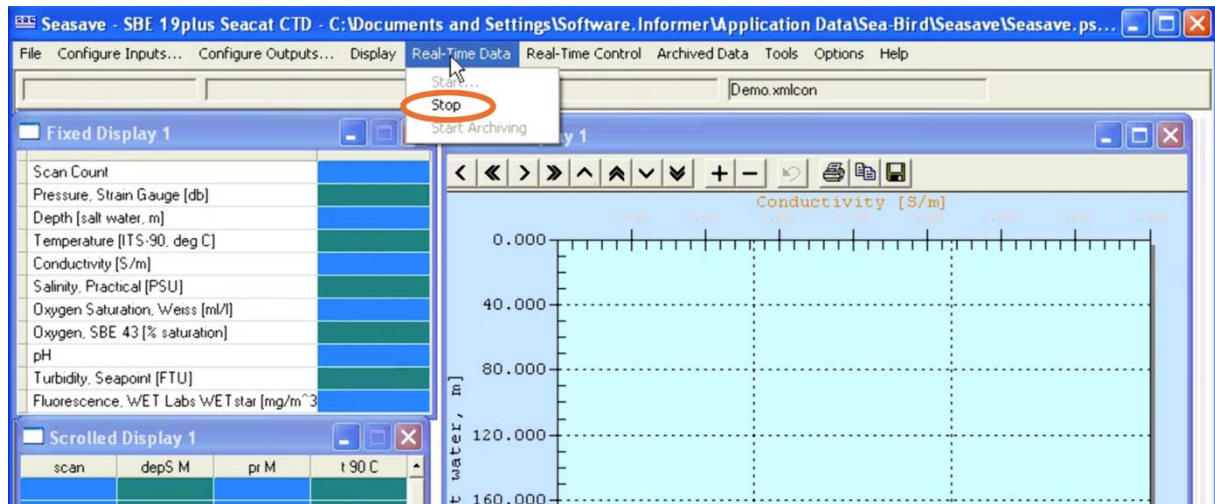


"Next bottle to be fired": the number filled in here determines the next bottle that will be closed; you can find the number corresponding to each bottle on the carrousel, when you climb on it you can see the number in the small circle in the middle, where the hook is situated where the red plastic cable of the opening of the bottle needs to be placed to open the Niskin bottle



During deployment: Niskin bottles are kept just below the surface for 3 minutes, so previous eDNA is diluted with eDNA from the water at the current location. After 3 minutes slowly let the Niskin carousel go down until ca 1-3 m above the seafloor. The depth profile is available on the big screen MDM500 Server (click the button with the eye symbol at the top right)

*Tab “Real-time Data”*



Select “Stop” once the carousel is at the surface of the water