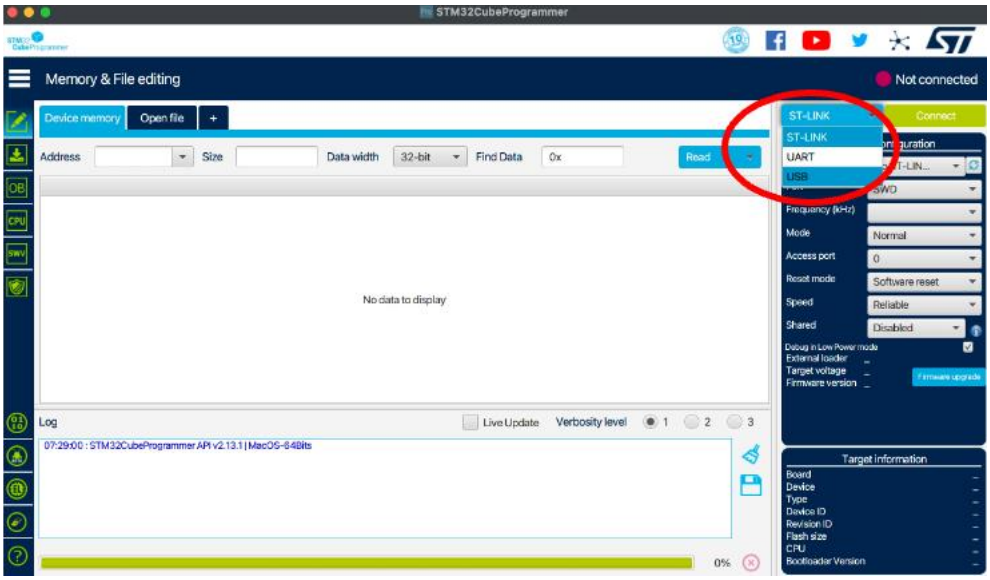
LARUS STM Update

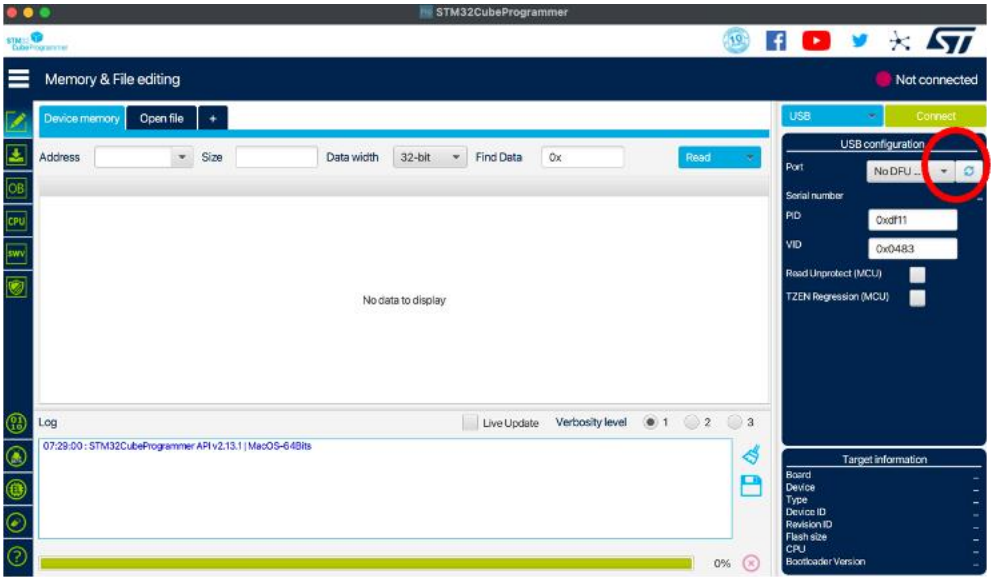
For an STM update, the STM32CubeProgrammer program must be installed on a computer (ideally a laptop). The software can be downloaded here:https://www.st.com/en/development-tools/stm32cubeprog.html (E-mail address will be requested). Furthermore a USB cable is required to connect the computer to the USB-C “STM” socket of the LARUS.

Step 1: Open the STM32CubeProgrammer program, select USB:

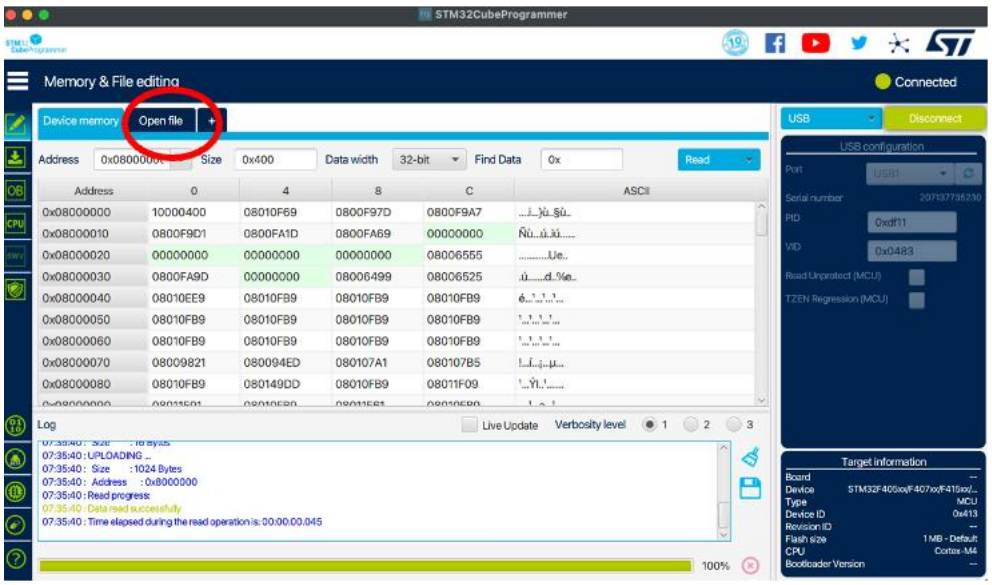


Step 2: Disconnect all RJ45 cables from the LARUS. Check that all LEDs on the LARUS are off (the device is not powered). Press and hold the “RST” button on the LARUS front and then plug the USB cable that is already connected to the laptop into the “STM” USB-C socket of the LARUS.

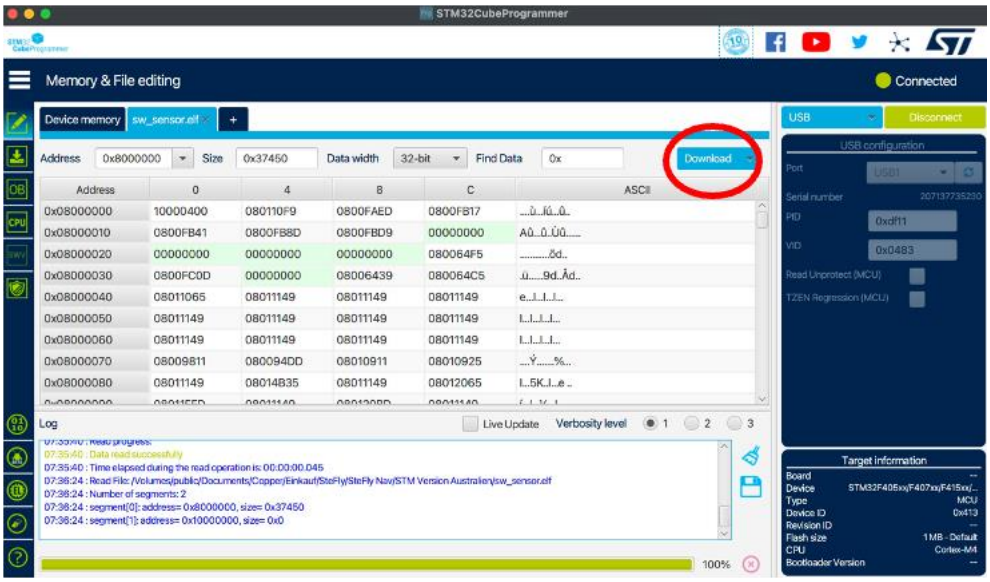
Step 3: Click on the update symbol. The port will be automatically selected (e.g. USB1):



Step 4: Click on “Open file” and select the update file (download from https://github.com/larus-breeze/sw_sensor/releases ; file extension .elf), click on open:



Step 5: Click on “Download” and wait until the message “file download complete” appears



Step 6: Disconnect the USB-C cable from the laptop. Then connect LARUS to external devices again, as before the update, using the RJ45 cables and then boot up the systems. As soon as LARUS receives sufficient GNSS signals (hence leaving the hangar), the blue control LED starts flashing and in OpenSoar under “Devices” the status changes from “No data” to “GPSfix; Baro; Airspeed; Vario”. LARUS is now ready for flight.