To discharge waste:

ARH , rev0, 6 May , 2014

Rev1 , 7 may 2014

1. Using the ballast adjustment calculation spreadsheet determine how many grams overweight the glider is estimated to be.
2. At an opportune time, pause script and use CNTRL-E to get at least 30 minutes [1800+ sec] of time until dive.
3. Use CNTRL-T to enter CONSCI.
4. Once at the SciDos> prompt, use u4stalk 0 19200 30 to talk to OPD.
5. Once at OPD's C:> prompt, use AUV to boot the OPD program.
6. Once OPD boots and you see Ready, Ready, start the waste discharge routine with <opcode> 67. If you get more than or less than two ready’s, <closedown> and AUV again.
7. The program warns you to only do this at the surface and prompts you to enter the number of minutes of pumping time desired. Enter a time not greater than 30 min. Each minute should remove approximately 2 grams of weight from the glider, assuming the waste water is available in the reservoir. So, as long as you are pumping out excess weight, there will be enough water there, and more, to cover that.
8. The program confirms your entry, reminds you that you can stop the process at any time with <stop>, and then begins pumping, noting to the console the number of seconds pumped in 5 sec increments.
9. If uninterrupted the program announces that it is completed and the total number of seconds pumped.
10. If you lose iridium comms during this process the glider will see that, will turn off all science sensors including OPD, will Quit out of SciDos and return to the surface reports routine of the still running mission. Count the seconds pumped before you lost comms as all that got pumped. Repeat the process as required.
11. If you have not lost iridium comms, wait for OPD to complete 2 flushing strokes and announce that they are complete. Then close down OPD to its C:> prompt using <closedown>.
12. Drop the UART comms session to OPD using CNTRL-C.
13. Verify that you are back at the SciDos> prompt by sending a CR, or other character.
14. End the CONSCI session using Quit.
15. Verify that you are back to the glider mission using a !Where or CNTRL-E or other command.
16. Issue a H 2 command to have him hang up and call back in 2 min, getting his GPS update
17. Resume the glider mission using CNTRL-R.
18. After the glider dives, reset the script.