MVPlan Extended Limits

MVPlan allows dive calculations to sensible limits bearing in mind the design and testing of the Buhlmann model. These are:
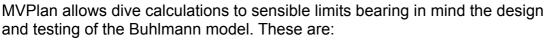- Depth: 100 metres
- Segment time: 100 minutes
- Setpoint: 1.6 atm O2
- Gradient Factor: 0.95

Some divers wish to experiment with the model on deeper, longer dives so there is a key sequence to enable extended limits of:
- Depth: 200 metres
- Segment time: 1000 minutes
- Setpoint: 2.0 atm O2
- Gradient Factor: 1.0

It must be remembered that the Buhlmann model has not been systematically and scientifically tested to these limits so the results can only be considered an extrapolation of a known model. The efficacy of the model is very much in doubt beyond normal diving depths, and the CNS calculations are invalid beyond 1.6ppO2.

Those diving beyond 100 metres can expect to get decompression sickness using any decompression model, and should both compare the output of multiple models and add significant amounts of conservatism. The use of MVPlan must be limited to understanding what the Buhlmann model would extrapolate to, and divers must not rely on its output to plan actual dives.

I.E. You are a crash test dummy so beware !

To enable extended limits, enter the preferences screen and type (ctrl)l – that is lower case L for Limits. The following pop-up asks you to confirm.

Extended limits stay active until you perform the same operation to disable them.