ANDI GAP Dive Planner

Software By

Kees Hofwegen

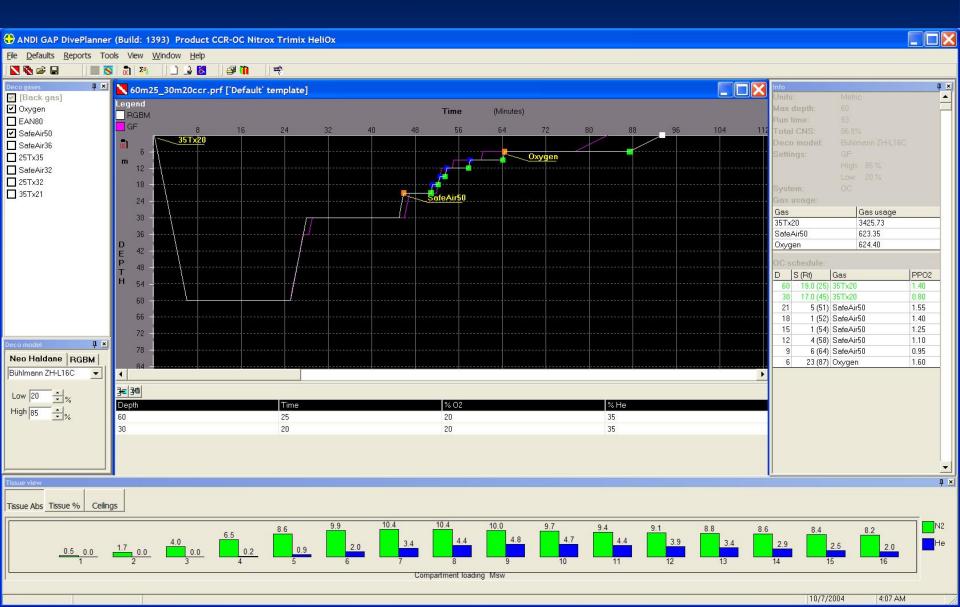
Presentation By

Joseph A. Radomski
ITD 10

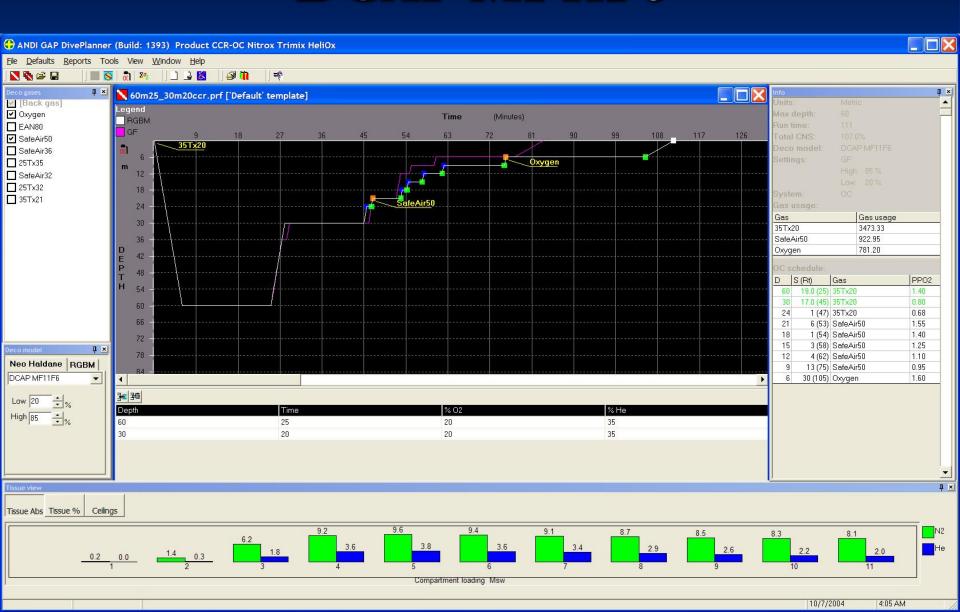
Decompression Models

- Bühlmann
 - Deco curve controlled by Gradient Factors
- DCAP MF11F6
 - Deco curve controlled by Gradient Factors
 - GF-Low of 99% and GF-High of 100% approximate published tables
- RGBM (Reduced Gradient Bubble Model)
 - 5 pre-programmed levels of conservatism

Bühlmann



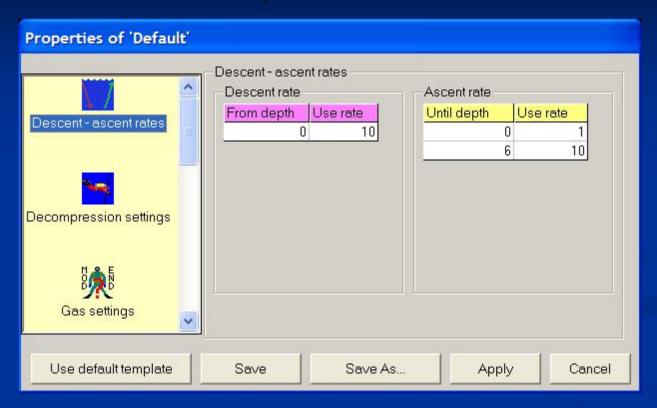
DCAP MF11F6



RGBM



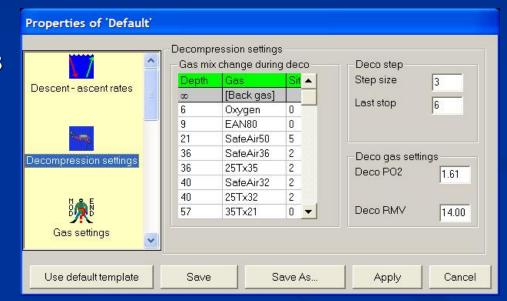
Descent/Ascent Rates



- Individual settings for ascent and descent
- Multiple rates based on depth

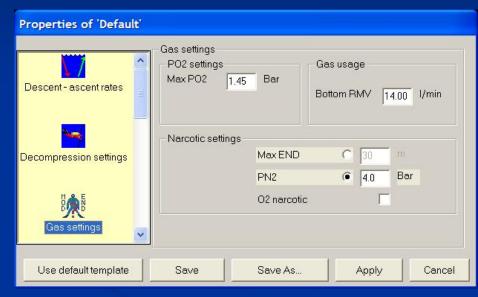
Decompression Settings

- User defined
 - decompression gases
 - variable minimum stop times at gas switch depths
 - decompression step size
 - last decompression stop
 - maximum allowable PO₂
 - RMV entry for Open Circuit gas requirement calculations

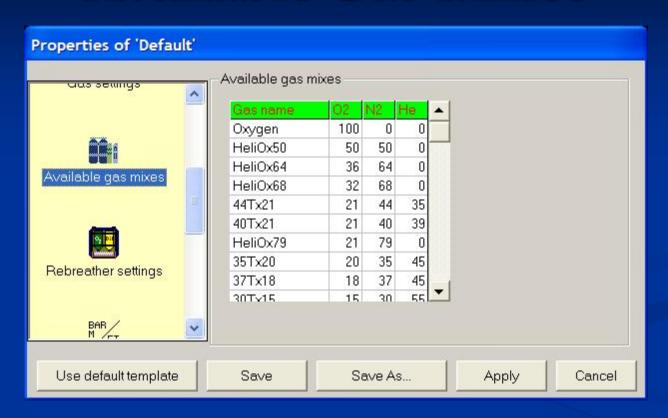


Gas Settings

- Maximum PO₂ setting
 - Automatic gas creation
 - Warnings/Alerts for exceeded limits
- Narcotic Settings
 - Automatic gas creation
 - Warnings/Alerts for exceeded limits
 - By END
 - By PN2
 - \bullet O₂ narcotic (Yes/No)
- RMV entry for Open Circuit gas requirement calculations



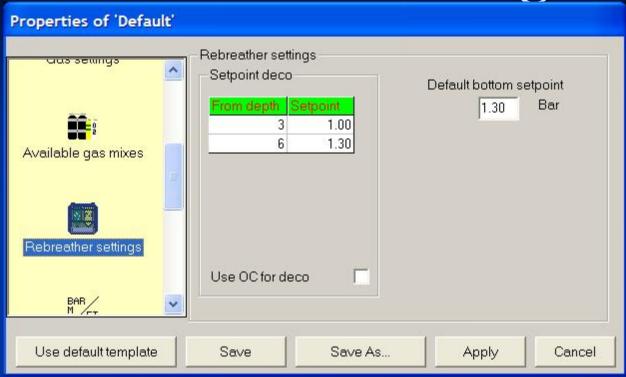
Available Gas Mixes



- User Defined "Standard" gases
- Sorted by Oxygen Content

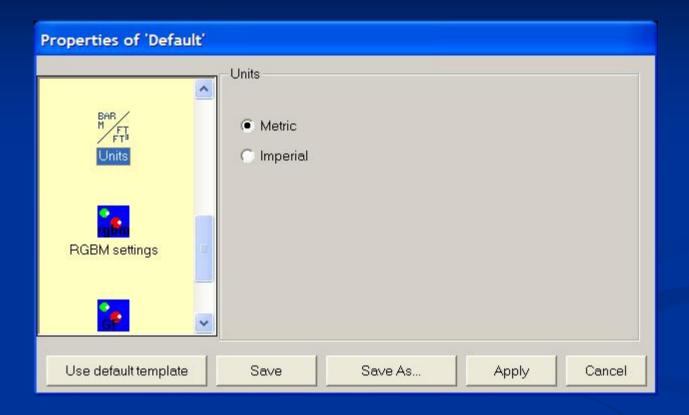
(BUG in above screenshot has N_2 /He labels swapped, will be fixed in next release)

Rebreather Settings



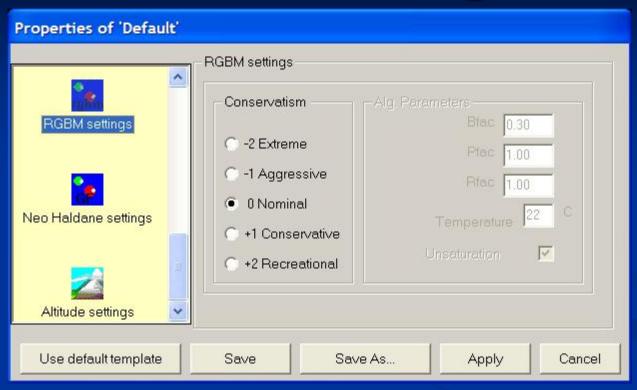
- User Defined Default Set-Point
- Variable Set-Points for Decompression based on Depth
 - Added conservatism on hard to maintain set-points (above 1.3 bar at 6m, and 1.0 bar at 3m)
 - Raising PO₂ during decompression stops
- Open Circuit Decompression for Bailout Calculations

Units



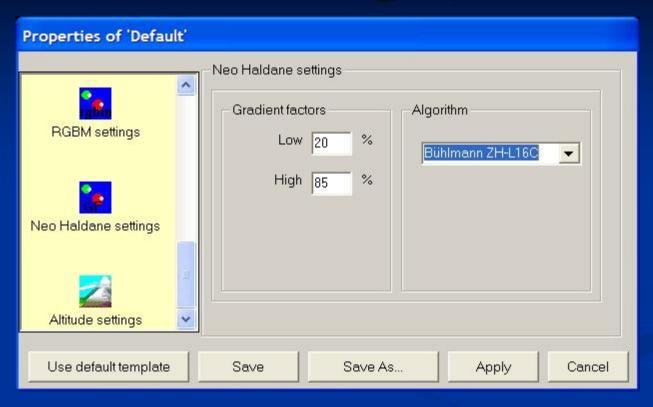
Dive planning in Metric or Imperial Units

RGBM Settings



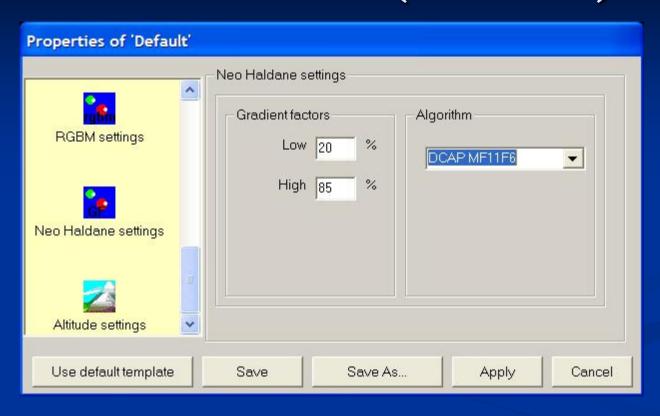
- 5 levels of Conservatism
- Extreme and Aggressive Settings Match Published Tables
- Nominal Setting is the Recommended starting point for warm low workload dives.

Neo-Haldane Settings (Bühlmann)



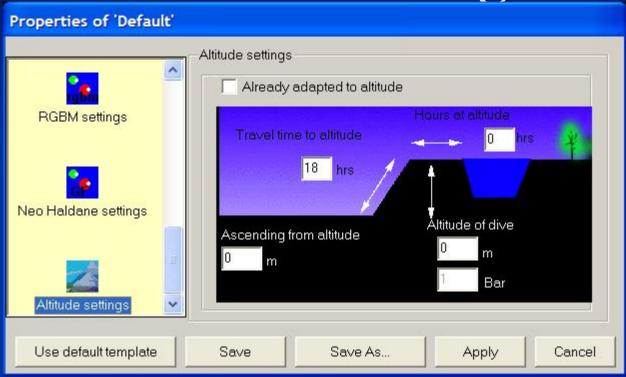
- Gradient Factor LOW determines Initial Stop Depth
 - Lower value causes deeper initial stop
- Gradient Factor HIGH determines overall conservatism
 - Higher value reduces overall conservatism
- Selectable ZH-L16B or ZH-L16C M-Values

Neo-Haldane (DCAP)



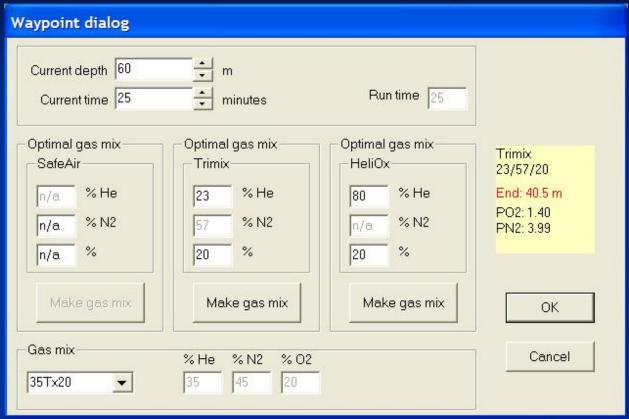
- Dissolved Gas model based on DCAP MF11F6 M-values
- Conservatism adjusted by Gradient Factors
- GF-Low 99%, GF-High 100% approximates published tables

Altitude Setting



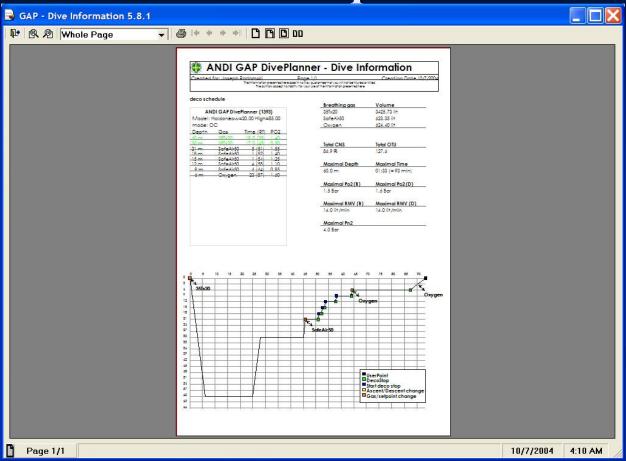
- Used for Dive planning at altitude
- Ability to plan dives regardless of elapsed time at altitude (No adaptation time necessary)

Way-Point Dialog Box



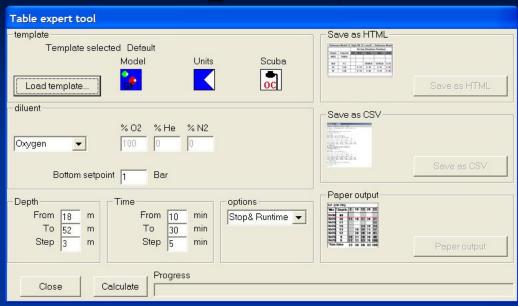
- Entry of Segment depth and time (includes display of Total Elapsed time)
- Select pre-defined Gases or Automatic gas creation based on PO₂ and Narcotic Settings

Dive Reports



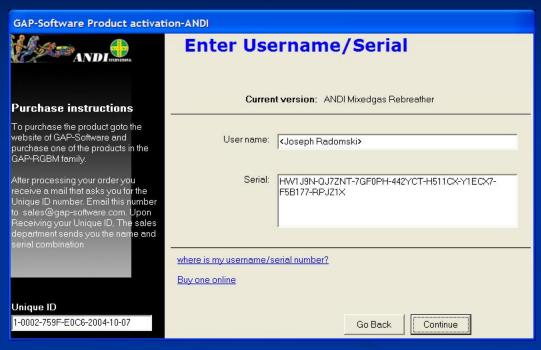
- 3 Standard Report Formats
 - Normal (Example Above)
 - Long
 - Bail-Out

Table Expert (Creator)



- Tables Based on
 - Template Settings
 - Initial Gas
 - User defined Depth Ranges and Times
- Choice of 3 Output Formats
 - HTML, CSV, or Printed Output

User Registration



- Each install generates an Unique ID
 - to register product (up to 2 registration keys) email user name, product version, retail facility, and Unique ID (specify Desktop/Laptop for each) to registerandigap@andihq.com

 Key requests for 2nd computer must be submitted with original registration.
- 14 Day evaluation Period Freely Distribute
- Registration Serial determines active features

For product support, Bug reports and feature requests.....

Send an Email to:

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