

2024, Part IV: diving in Crete

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**Some experiments with the
UWATEC G2 TEK and the iX3M 2**

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under water:
„NDL“ and saturation graph
Scubapro / UWATEC
LHS: G2 TEK
RHS: G2
(more info on slide # 6)



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„NDL“

Scubapro / UWATEC

LHS: G2 TEK

RHS: G2



„NO FLY“ &
„DESAT“ →

The G2 TEK was put on purpose to less oxygen & more nitrogen than the G2 to

compensate for the different calculation with the GF 100/100 of the G2 TEK with the MB Level = L0 of the G2 (Thus the difference in „MOD“ ...). But anyway the G2 TEK had longer „NDL“ and went always quicker into NDL = 99 and had shorter „NO FLY“ than the G2 ...



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during SI:

„NO FLY“ ranges from
3 to 10 h
for the same dive

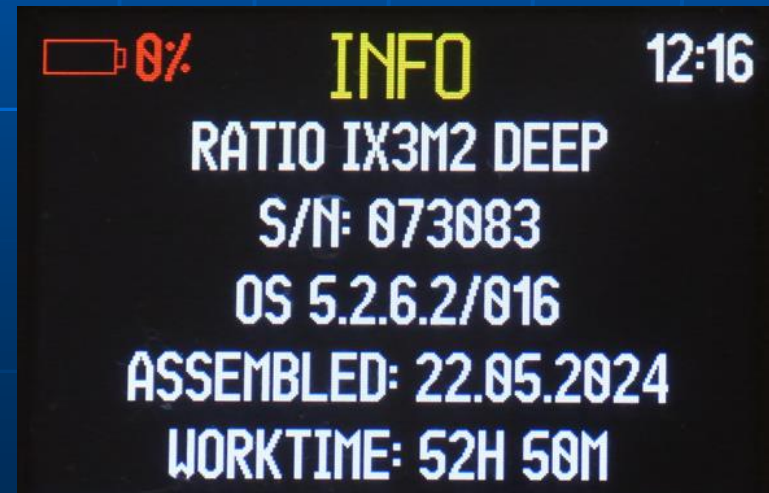
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after ca.
15 dives
in Crete →



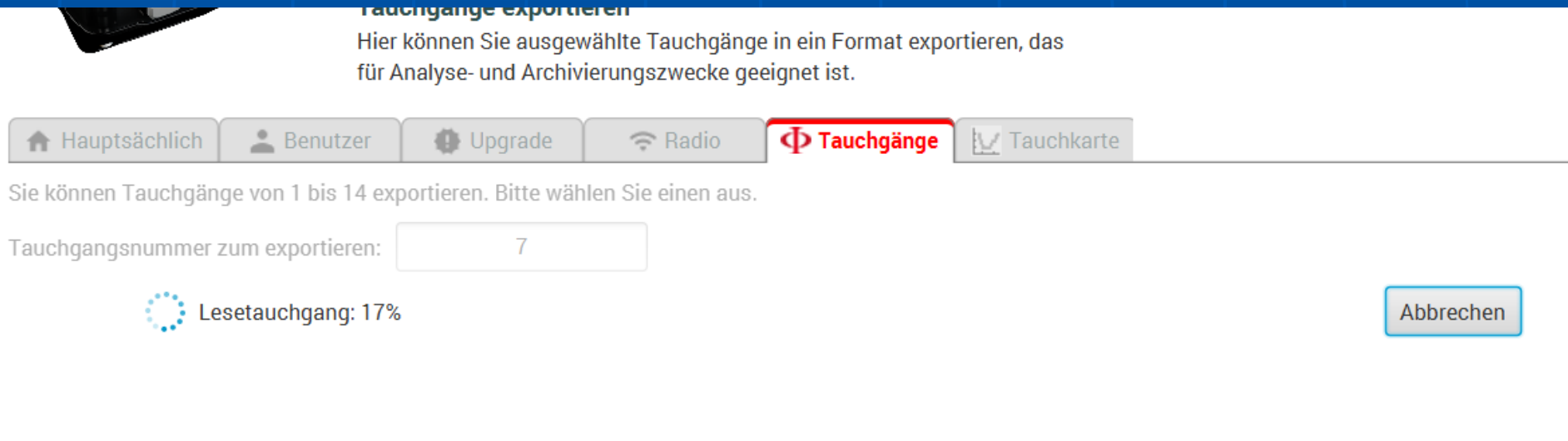
battery-jump
from:
38 %
to 0%!
within
1 day OFF!



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Transfer of the logged dives from the iX3M 2 DEEP to a WIN® 11 PC @ our lab via RATIO Toolbox 1.8.8

(with WIN® 10 or WIN® 7 it won't work properly: i.e. the „exported“ dives went directly to the Desktop and could not be displayed!):



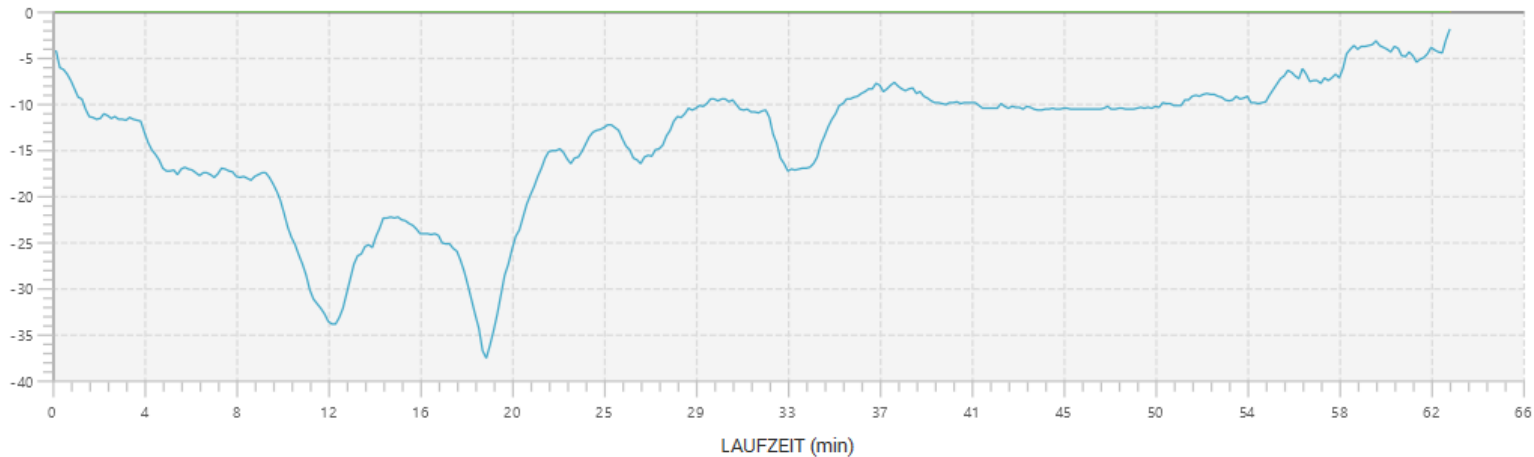
... and all the dives had to be exported ONE-after-the-OTHER!

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RATIO Toolbox 1.8.8:

Tauchen 14 ▾ Wählen Sie den Tauchgang aus, für den Sie das Diagramm anzeigen möchten

- TIEFE
- TEMPERATUR
- BATTERIE
- DEKO. TIEFE
- CNS
- DEKO. ZEIT
- TTS



○ TTS ○ Deko. zeit ○ Deko. tiefe ○ Tiefe

LAUFZEIT: 63.34 min
MAXIMALE TIEFE: 38.27 m
DURCH. TIEFE: 13.92 m
MODUS: OC
ALGORITHMUS: BUL16C
PS: 0

Minute: 33
Tiefe(m): -17.2
TTS(min): 23
ZNS: 2
Tiefe Erster Halt(m): -0.0
Zeit Erster Halt(min): 0

Display of dive #14:

the „TTS“ of 23 min @ 33 minutes into the dive isn't!

It is not the „time-to-surface“ (TTS; as it is defined: TTS = sum of all stop times + ascent time) but instead sort of „NDL“ ...

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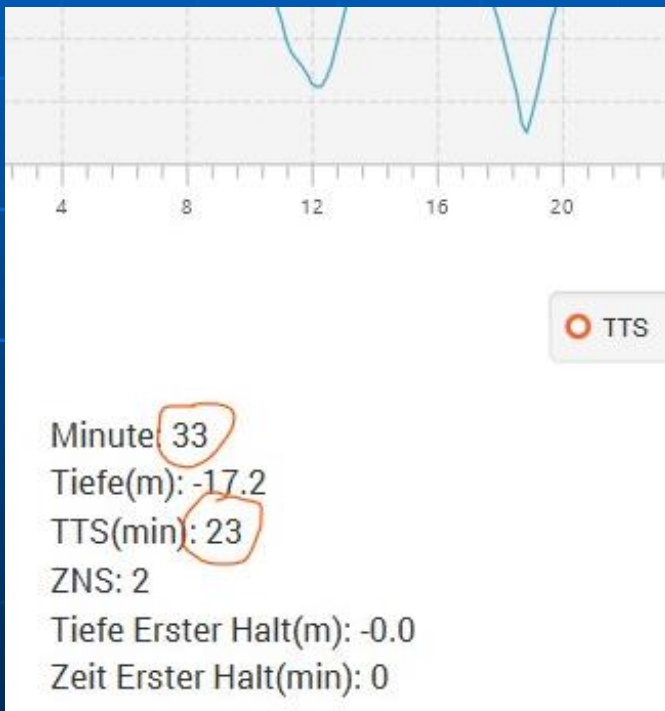
Again: Display of dive #14:
... just for a comparison with SUBSURFACE 6.0.5276:



2024, Part IV:

Again: Display of dive #14:
the „TTS“ of 23 min @ 33 minutes into the dive isn't!
It is not the „TTS“ but instead sort of „NDL“ ...

RATIO Toolbox:



comparison with
SUBSURFACE 6.0.5276:





Ratio® iX3M 2 DEEP

Firmware 5.2.6/016 (English)

Seriennr. 073083

Verbunden mit COM3

Tauchdiagramm anzeigen

Hier können Sie die vom Tauchcomputer heruntergeladenen
Tauchdiagramme anzeigen

🏠 Hauptsächlich

👤 Benutzer

⚙️ Upgrade

📶 Radio

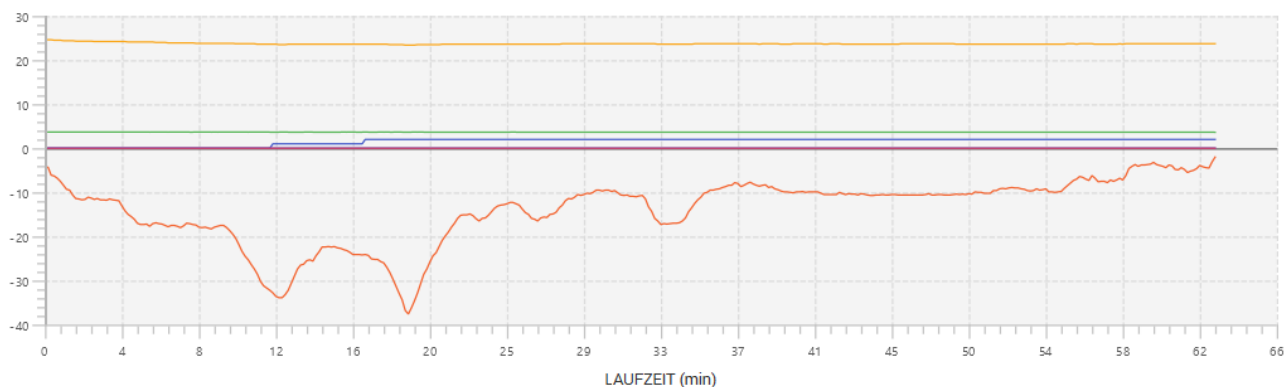
👤 Tauchgänge

📊 **Tauchkarte**

Tauchen 14 ▾

Wählen Sie den Tauchgang aus, für den Sie das Diagramm anzeigen möchten

- TIEFE
- TEMPERATUR
- BATTERIE
- DEKO. TIEFE
- CNS
- DEKO. ZEIT
- TTS



○ Tiefe ○ Temperatur ○ Batterie ○ Deko. tiefe ○ CNS ○ Deko. zeit ○ TTS

LAUFZEIT: 63.34 min
MAXIMALE TIEFE: 38.27 m
DURCH. TIEFE: 13.92 m
MODUS: OC
ALGORITHMUS: BUL16C
PS: 0

Minute: 36
Tiefe(m): -9.5
TTS(min): 546
ZNS: 2
Tiefe Erster Halt(m): -0.0
Zeit Erster Halt(min): 0

**Display of dive #14:
the „TTS“ of 546 min @ 36 minutes into the dive is also nebech!
Again: it is not the „TTS“ but instead sort of wrong „NDL“ ...
Should read „99“ or the like ...**

more tests & benchmarks **@ RESEARCHGATE:**

- On the reliability of dive computer generated run-times;
Part XIII:
<https://dx.doi.org/10.13140/RG.2.2.13820.96647>
- On the reliability of dive computer generated run-times;
Part XIV:
<https://dx.doi.org/10.13140/RG.2.2.26626.29120>