Altitude „Diving“, the 2nd. Bergsee-“Tauchen“ (☺): die zwote

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Test with:
Scubapro ALADIN TEC 2G, Software Version: 40 20 72 73 25 (left)
Scubapro Galileo „G2“, Hardware: 0.0, Software Version: 1.3 (middle)
RATIO iX3M DEEP, Software Version: 4.0.44 / 013 (right)
during flight with commercial aircraft 06/2018

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TTS =
total time to surface, i.e. sum of all stop times + ascent time (or: TAT)

DCIEM Table for Air @ Sealevel would read for 42 m / 25‘ :

9 m / 7‘
6 m / 8‘
3 m / 17‘
TTS = 32 + 4‘

Bühlmann ZH-86 Table for Air @ Sealevel would read for 42 m / 27‘ :

9 m / 4‘
6 m / 7‘
3 m / 19‘
TTS = 33‘

Galileo 2 / G2 Dive Planner for Air @ Sealevel would read for 42 m / 25‘ :

9 m / 2‘
6 m / 8‘
3 m / 21‘
TTS = 31 + 6‘ (= TAT 37‘) OTU = 28, CNS = 9 %

Altitude „Diving“: the 2nd.
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Test-“Dive“: 42 m / 25 min @ Air

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The DCIEM Altitude Correction is for 1.800 m – 2.099 m: → + 12 m

thus <u>54 m / 25‘:</u> 15 m / 5‘ (but at 12 m!)
12 m / 5‘ (but at 10 m!)
9 m / 7‘ (but at 7.5 m!)
6 m / 9‘ (but at 5.0 m!)
3 m / 39‘ (but at 2.5 m!)
<u>TTS = 65 + 4‘ (unadapted!)</u>

The <u>Bühlmann ZH-86</u> Table for Air @ 701 – 2.500 m:

<u>42 m / 27‘</u>: 12 m / 1’
9 m / 5’
6 m / 5‘
4 m / 9‘
2 m / 21‘
<u>TTS = 44‘</u>

<u>(adaption time @ altitude: 1 h or more!)</u>

Altitude „Diving“: the 2nd.
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Test-“Dive“: 42 m / 25 min @ Air

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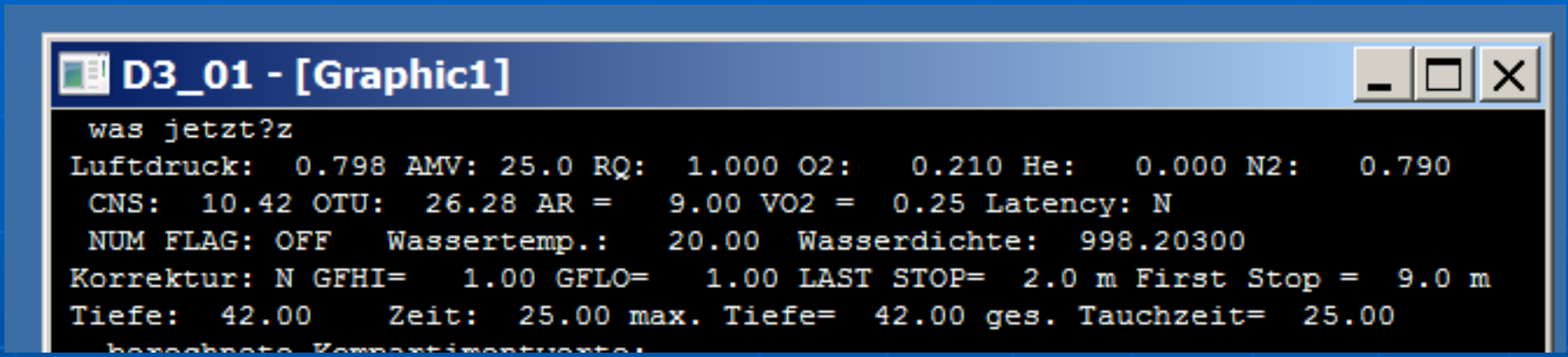
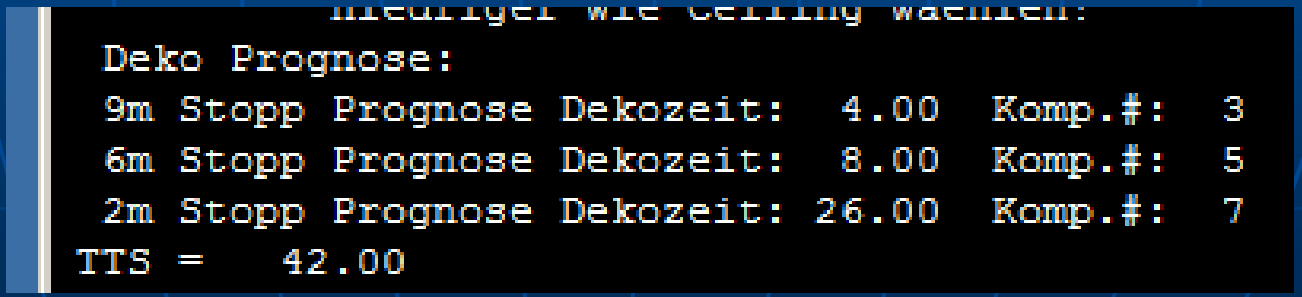


DIVE 3.01:

→ no adaption TTS = 46‘

→ with 30 min adaption: TTS = 42‘



→ **https://www.divetable.info/DIVE_V3/index_e.htm**

Altitude „Diving“: the 2nd. Bergsee-“Tauchen“ (☺): die „zwote“ Test-“Dive“: 42 m / 25 min @ Air

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<u>After adaption time of 30 min @ ca. 0,798 Bar in cabin:</u>

Scubapro ALADIN TEC 2G @ MB Level = 0: **<u>TTS = 56 min</u>**
Scubapro Galileo „G2“@ MB Level = 0: **<u>TTS = 58 min</u>**
RATIO iX3M **<u>TTS = 25 min (!!!)</u>**
<u>(despite Gradientfaktors, default: GF Hi = GF Lo = 0,93!!!)</u>

Altitude „Diving“: the 2nd.
Bergsee-“Tauchen“ (☺): die „zwote“
Test-“Dive“: 42 m / 25 min @ Air

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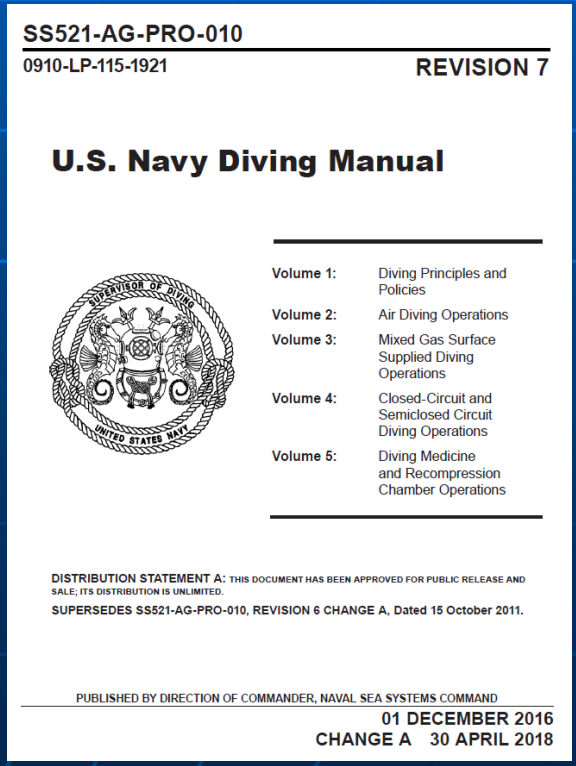
post scriptum:

→ 1)
https://www.divetable.info/skripte/Altitude_Diving.pdf

→ 2)
USN Table from 2018,
i.e.: 2008/2011/2016:


SS521-AG-PRO-010
0910-LP-115-1921 REVISION 7

U.S. Navy Diving Manual

Volume 1:	Diving Principles and Policies
Volume 2:	Air Diving Operations
Volume 3:	Mixed Gas Surface Supplied Diving Operations
Volume 4:	Closed-Circuit and Semiclosed Circuit Diving Operations
Volume 5:	Diving Medicine and Recompression Chamber Operations

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Altitude „Diving“: the 2nd. Bergsee-“Tauchen“ (☺): die „zwote“ Test-“Dive“: 42 m / 25 min @ Air

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The USN 2018Table for Air @ sealevel (42 m → 138 ft.):
140 feet / 25‘ (p. 9-78):

30 feet / 9 m:	**3‘**
20 feet / 6 m:	**24‘**
TTS =	**32‘**

The USN 2018 Altitude Correction is for 6000 feet (1.900 m → 6.234 ft.):
140 feet → 180 feet (55 m; p. 9-48), thus 180 feet / 25‘ (p. 9-82):

50 feet /	**5‘ (but at 40 feet / 12 m!)**
40 feet /	**6‘ (but at 32 feet / 10 m!)**
30 feet /	**7‘ (but at 24 feet / 7 m!)**
20 feet /	**57‘ (but at 16 feet / 5 m!)**
TTS =	**80‘ (unadapted!)**