

High Altitude „Diving“ Bergsee-“Tauchen“ (☺)

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Test with:

RATIO iX3M, Software Version: 4.0.26 / 013

Scubapro Galileo „G2“, Hardware: 0.0, Software Version: 1.2

Scubapro ALADIN TEC 2G, Software Version: 40 20 72 73 25

during flight with commercial aircraft 10/2017

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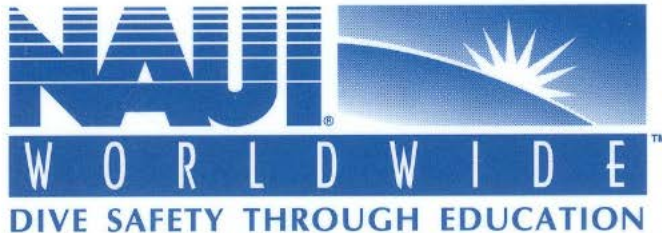
A lot of regular Air Tables „stop“ at around 1.500 m altitude ...
with this one here the 30 m / 30 min dive is not even possible:

DIVE ONE			DIVE TWO		
MAX DEPTHS		MDT	MAX DEPTHS		MDT
fsw	msw	minutes	fsw	msw	minutes
90	27	11	60	18	28
80	24	15	55	17	28
70	21	21	50	15	40

Reduced Gradient Bubble Model (RGBM)

Dive Table - Air

6,000 to 10,000 ft / 1829 to 3048 m



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D3_01 - [Graphic1]

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was jetzt?z
Luftdruck: 0.780 AMV: 25.0 RQ: 1.000 O2: 0.210 He: 0.000 N2: 0.790
CNS: 6.67 OTU: 18.57 AR = 9.00 VO2 = 0.25 Latency: N
NUM FLAG: OFF Wassertemp.: 20.00 Wasserdichte: 998.20300
Korrektur: N GFHI= 1.00 GFLO= 1.00 LAST STOP= 3.0 m First Stop = 6.0 m
Tiefe: 30.00 Zeit: 30.00 max. Tiefe= 30.00 ges. Tauchzeit= 30.00
berechnete Kompartimentwerte:
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Deko Prognose:

6m Stopp Prognose Dekozeit: 3.00 Komp.#: 4

3m Stopp Prognose Dekozeit: 18.00 Komp.#: 6

TTS = 24.00

DIVE 3.01: TTS = 24'
w. 1 h adaption: TTS = 18' (6m/2', 3m/13')

DP 3.1.4: TTS = 14'
(adaption not possible!)



Mission: 1 Dive: 1

Depth Plan (Meters)

Depth	Time	O2	He	PPO2	Ceil
30	30	21	0	0,79	6

Bühlmann

Dive Plan: ZHL16B Safety: OFF Descent: Immediate

Depth	Time	O2	He	Start	End
30	30	21	0	0	30
6	1	21	0	33	34
3	9	21	0	34	43
0					44

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DCIEM Table for Air @ Sealevel would read for
30 m / 30' :

6 m / 5'
3 m / 10'
TTS = 18'

The Altitude Correction is for 2.100 m – 2.399 m: → + 9 m
thus

39 m / 30' :

9 m / 7' (but at 7.5 m!)
6 m / 8' (but at 5.0 m!)
3 m / 22' (but at 2.5 m!)
TTS = 40' (unadapted)

The Bühlmann ZH-86 Table for Air at 701 – 2.500 m:
30 m / 30' :

6 m / 1'
4 m / 4'
2 m / 11'
TTS = 19' (adaption time @ altitude: 1 h or more!)

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After adaption time of 1 h:

Scubapro Galileo „G2“:

TTS = 28 min

Scubapro ALADIN TEC 2G (6 m / 4', 3 m / 22'):

TTS = 29 min