

TMX 21 / 50
Druckkammerfahrt im
HBO Zentrum Stgt.
am 09.11.2019

Trimix 21 % O₂, 50 % Helium

TMX 21 / 50
in HBO center Stuttgart 11/09/2019
with:
Trimix 21 % O₂, 50 % Helium

TMX 21 / 50

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Meßprotokoll Druckkammerfahrt vom: 09.11.2019

OFP = ' , Tauchzeit: 50 m / 50 min (= ') mit TMX 21/50

Tiefe [m] / Geplante Zeit [min.]	Scubapro Galileo G2 V 1.05	DiveSystems RATIO iX3M DEEP 4.0.68/013	Deco Planner 3.1.4	DIVE V3_07	Sub- surface 4.9.3	Cochran Consulting Analyst 4.02a PE
	Tiefe / TTS	Tiefe / TTS	TTS	TTS	TTS	TTS
0 → 50 / 6'	50,9 / 9'	50,7 / 13'		Descentrate = 8.3		
50 / 8'	51,1 / 51'	50,9 / 40'				
50 → 21 / 4'	21,4 / 45'	21,5 / 40'		ascentrate = 7.25		
21 / 2'	46'	43'		21' (1) / 23' (2)		
21 → 9 / 3'	9,3 / 44'	9,2 / 39'		ascentrate = 4.0 19' (1) / 22' (2)		
9 / 5'	40'	34'	17' (1) / 23' (2)	18' (1) / 20' (2)	12' (1) / 18' (2)	16' / 30' (*)
6 / 5'	6,2 / 40' → 35'	6,0 / 33' → 29'				
3 / 15'	3,1 / 34' 0 / 35' SOS	3,0 / 26' → 11' 0,4 / 8' 0,1 / 7'				

Alte DRÄGER Tabelle 51 m / 20': 5 / 5 / 15

(1): GF = 100/100; (2): GF = 93/93 + Bühlmann Depth-Safety Factor
(*): maximal conservatism (=50)

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C:\home\Bilder\Museum\2019\TMX\0911\Vergleich_TMX.docx; Stand: 1|1.11.2019

Sources for Desktop Deco Software:

GUE Deco Planner 3.1.4

<https://www.gue.com/store/Software>

DIVE V3_07

https://www.divetable.info/DIVE_V3/index.htm

https://www.divetable.info/beta/D3_07.exe

Subsurface 4.9.3

<https://subsurface-divelog.org/de/>

Cochran Consulting, Inc.: Analyst 4.02a Professional Edition

<http://www.divecochran.com/software/index.html>

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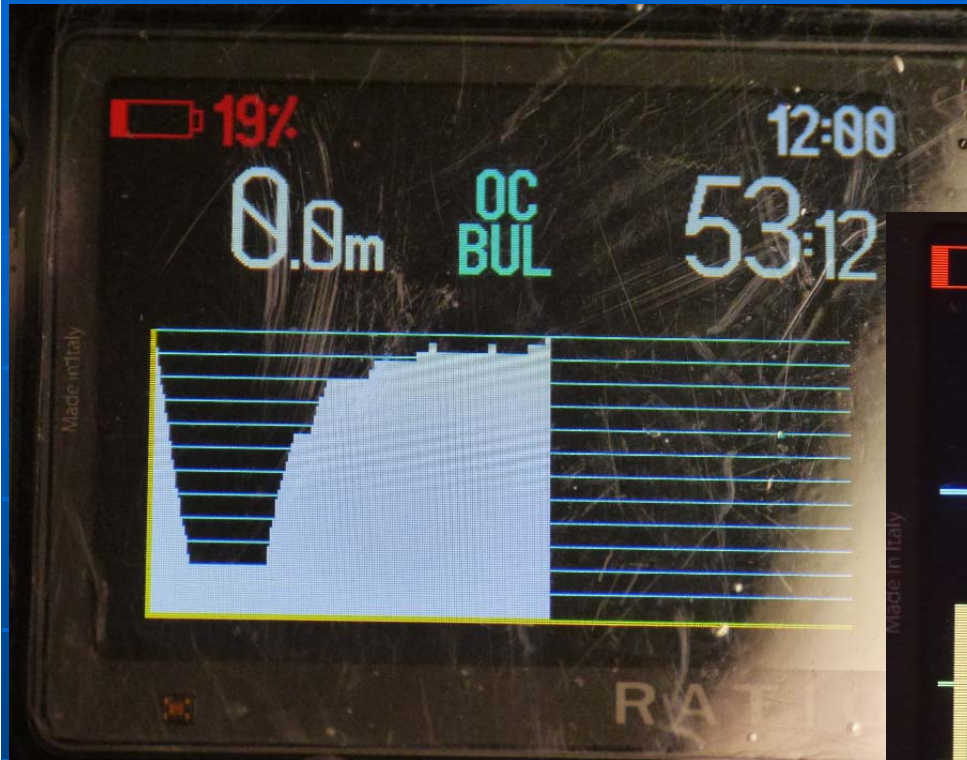


re-surfaced: the end

Details / back up material:

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RATIO: log & compartments

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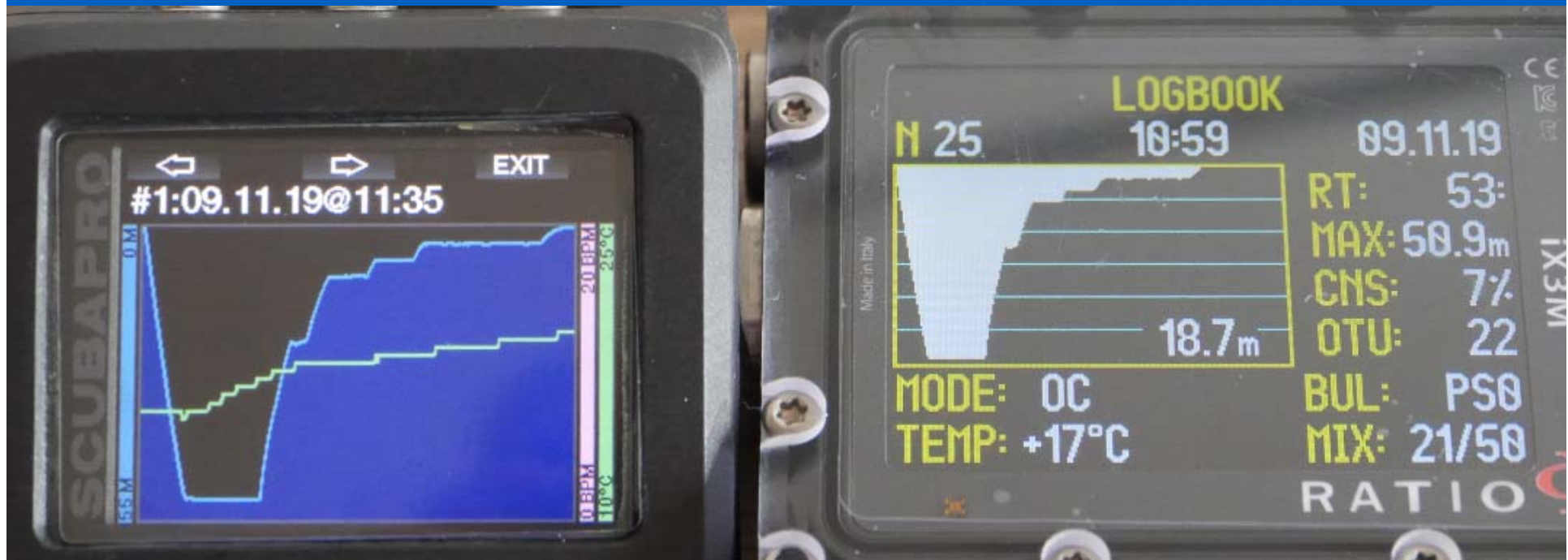
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Dive Logs

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HINWEIS / WARNUNG: DIES IST EINE NEUIMPLEMENTATION DES BUHLMANN-ALGORITHMUS UND EINE DARAUF BASIERENDE TAUCHGANGSPLANERIMPLEMENTATION, DIE NUR EINER GERINGEN ZAHL VON TESTS UNTERZOGEN WURDE. WIR RATEN DRINGEND, TAUCHGÄNGE NICHT AUSSCHLIESSLICH AUFGRUND DIESER RESULTATE ZU PLANEN!

Subsurface (4.9.3.0) Plan erstellt am 10.11.19
Runtime: 38min

	Tiefe	Dauer	Runtime	Gas
↘	53m	6min	6min	(21/50)
→	53m	8min	14min	
↗	21m	4min	18min	
→	21m	2min	20min	
↗	6m	2min	22min	
-	6m	4min	26min	
↗	3m	0min	26min	
-	3m	12min	38min	
↗	0m	0min	38min	

CNS: 7%

OTU: 20

Dekomodell: Bühlmann ZHL-16C mit GF niedrig = 93% und GF hoch = 93%
Oberflächendruck: 1.013mbar (0m)

Gasverbrauch (basierend auf AMV 20|17l/min):
2.358l von (21/50) (461l im berechneten Aufstieg)



Subsurface 4.9.3

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Deco Planner

Version 3.1.4

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E-Mail: info@gue.com for general questions and registration

E-Mail: decoplan@gue.com for technical support (registered users)

Mission: 1 Dive: 1

Depth Plan (Meters)						Clear	Deco			Set	Clear	Gas Plan								Clear
Depth	Time	O2	He	PP02	Ceil		Depth	O2	He		Size	Fill	O2	He	MOD	Res	Litres	BAR		
50	6	21	50	1,26	3						24,0	232	21	50	56,67	0	3072	128		
50	8	21	50	1,26	9															
21	4	21	50	0,65	9															
21	2	21	50	0,65	9															

Bühlmann										VPM			
Dive Plan: ZHL16B Safety: ON Descent: Immediate													
Depth	Time	O2	He	Start	End	PP02	SCR	Gas Req'd	GF%	MVal%	CNS%	OTU	
50	6	21	50	0	6	1,26	20,00	720	0	12	3	8,86	
50	8	21	50	6	14	1,26	20,00	960	0	31	8	20,67	
21	4	21	50	16	20	0,65	20,00	606	0	69	9	25,26	
21	2	21	50	20	20	0,65	20,00	32	0	63	10	26,11	
9	1	21	50	20	22	0,40	20,00	30	93	87	10	26,30	
6	8	21	50	22	30	0,34	20,00	256	93	97	10	26,30	
3	18	21	50	30	48	0,28	20,00	468	93	96	10	26,30	
0					49				93	97	10	26,30	

Dive Time: 49 mins
 Deco Time: 28
 Max Stop Depth: 21
 GF Lo%: 93
 GF Hi%: 93

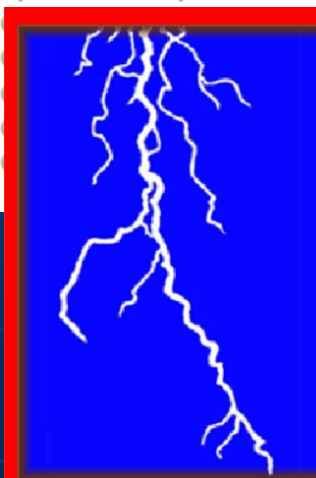
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Conservatism: 50		Altitude: 0		Temperature: 24				Temp Comp: High			Repet Comp: Off	
Depth	A/R	Inc Time	Run Time	Mode	Gas	PO2	O2%	He%	N2%	END	CNS%	OTU%
Gas @0			@0:00	=FO2	=1		=21.0	=50,0				
0 > 50		6:00	6:00	FO2	1	1,25	21,0	50,0	29,0	12	1	0
50 > 50		7:59	13:59	FO2	1	1,25	21,0	50,0	29,0	12	6	2
50 > 27	18	1:15	15:14	FO2	1	0,78	21,0	50,0	29,0	4	6	2
27 > 27		0:25	15:39	FO2	1	0,78	21,0	50,0	29,0	4	6	2
27 > 24	18	0:10	15:49	FO2	1	0,71	21,0	50,0	29,0	2	6	2
24 > 24		0:46	16:35	FO2	1	0,71	21,0	50,0	29,0	2	7	2
24 > 21	18	0:10	16:45	FO2	1	0,65	21,0	50,0	29,0	1	7	2
21 > 21		1:16	18:01	FO2	1	0,65	21,0	50,0	29,0	1	7	2
21 > 18	18	0:10	18:11	FO2	1	0,59	21,0	50,0	29,0	0	7	2
18 > 18		1:20	19:31	FO2	1	0,59	21,0	50,0	29,0	0	7	2
18 > 15	9	0:20	19:51	FO2	1	0,52	21,0	50,0	29,0	0	7	2
15 > 15		1:55	21:46	FO2	1	0,52	21,0	50,0	29,0	0	7	2
15 > 12	9	0:20	22:06	FO2	1	0,46	21,0	50,0	29,0	0	7	2
12 > 12		2:46	24:52	FO2	1	0,46	21,0	50,0	29,0	0	7	2
12 > 9	9	0:20	25:12	FO2	1	0,40	21,0	50,0	29,0	0	7	2
9 > 9		4:10	29:22	FO2	1	0,40	21,0	50,0	29,0	0	7	2
9 > 6	9	0:20	29:42	FO2	1							
6 > 6		6:15	35:57	FO2	1							
6 > 3	9	0:20	36:17	FO2	1							
3 > 3		12:18	48:35	FO2	1							
3 > 0	9	0:20	48:55	FO2	1							
***** End *****												



English
Version: 4.02a
Professional Edition



English
Version: 4.02a
Professional Edition

DIVE ANALYST®

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Box Profile:

42 m / 25 min bottom time

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Stop Depth [m]/[min]	G2 V 1.5	RATIO 4.0.68/ 013	DP3 (1) [DP2]	DP3 (1a) [DP2]	DP3 (2) [DP2]	DIVE 3_07 (1)	DIVE 3_07 (1a)	DIVE 3_07 (2)	OSTC 2.70.5 (1) / (2)	Analyst 4.02a PE
15	-	2	-	-	-	-	-	-	-/-	24 / - / 2' 21 / 1' / 2' 18 / 2' / 4' 15 / 3' / 5'
12	2	4	-	-	1	1	2	3	-/-	5 / 7
9	11	9	2	4	5	4	4	5	3 / 6	6 / 12
6	16	17	9	10	11	9	10	11	9 / 12	9 / 19
3	40	30	19	21	26	20	21	26	23 / 31	16 / 29
TTS [min]	75	66	31 [34]	36 [37]	44 [47]	38	41	49	40 / 55	41 / 80
%CNS / OTU	10 29	9 29			12 33			11 29	13 -	12 30

(1): GF 100;
DP3 w. ZH-L16 B;

(1a): GF 100 + Bühlmann Depth Safety Factor;
[DP2]: ZH-L 16 C

(2): GF Hi = GF Lo = 93 + Depth Safety Factor
Analyst with: 0 / 50 Conservatism

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Box Profile:

42 m / 25 min bottom time

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Box Profile:

42 m / 25 min bottom time

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DEPTH	TIME	RTIME	MIX
0m	0:	91:	21/0
3m	30:	61:	21/50
6m	17:	44:	21/50
9m	9:	34:	21/50
12m	4:	30:	21/50
15m	2:	28:	21/50



OC PLANNER	
DEPTH: 42m	TIME: 25
RTIME: 91	
CNS: 9%	
OTU: 29	

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Box Profile 42 m / 25 min:

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DP 3

Deco Planner

Version 3.1.4

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E-Mail: info@que.com for general questions and registration
E-Mail: decoplan@que.com for technical support (registered users)

Mission: 1 Dive: 1

Depth Plan (Meters) Deco Gas Plan

Depth	Time	O2	He	PPO2	Ceiling	Depth	O2	He	Size	Fill	O2	He	MOD	Res	Litres	BAR
42	25	21	50	1.09	12				24.0	232	21	50	56.67	30	4272	208

Bühlmann **VPM**

Dive Plan: ZHL16B Safety: ON Descent: Immediate

Depth	Time	O2	He	Start	End	PPO2	SCR	Gas Req'd	GF%	MVal%	CNS%	OTU
42	25	21	50	0	25	1.09	20.00	2981	0	13	11	30.20
12	1	21	50	29	30	0.46	20.00	73	93	89	12	32.40
9	5	21	50	30	35	0.40	20.00	190	93	95	12	32.40
6	11	21	50	35	46	0.34	20.00	352	93	97	12	32.40
3	26	21	50	46	72	0.28	20.00	676	93	97	12	32.40
0					73				93	97	12	32.40

Dive Time: 73 mins Deco Time: 44 Max Stop Depth: 30 GF Lo%: 93 GF Hi%: 93

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Box Profile 42 m / 25 min:

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DP2

Deco Planner

Deco Planner

Version 2.0.40

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E-Mail: decoplanner@sgue.com for technical support (registered users)

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The authors of this Software will not be held accountable for any injury caused by the use of a profile generated by this Software.

BE WARNED: This Software is still in test and may generate an incorrect profile. Any profile generated should be validated by comparison with other tables or Software.

MISSION: 1 Dive: 1

Depth Plan (Metres)						Deco Gas			Gas Plan							
Depth	Time	O2	He	PP02	Ceil	Depth	O2	He	Size	O2	He	MOD	Res	Litres	BAR	
42	25	21	50	1,09	12				20	21	50	56,67	50	4093	255	

Dive Plan: ZHL16C Safety: ON Descent: Immediate

Depth	Time	O2%	He%	Start	End	PP02	Gas	Gas Req'd	GF%	MVal%	CNS%	OTU's
42	25	21	50	0	25	1,09	19	2766			11	30,20
12	2	21	50	28	30	0,46	19	84	93	89	12	32,40
9	6	21	50	30	36	0,40	19	217	93	95	12	32,40
6	11	21	50	36	47	0,34	19	334	93	96	12	32,40
3	28	21	50	47	75	0,28	19	692	93	97	12	32,40
0				75					93	97		

Dive Time: 76 mins Deco Time: 47 mins Max Stop Depth: 30 GF Lo% 93 GF Hi%: 93

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DIVE Version 3_xx Handbuch zur Software

```

Luftdruck: 1.013 AMV: 25.0 RQ: 1.000 O2: 0.210 He: 0.500 N2: 0.290
CNS: 10.4 OTU: 28.1 AR = 9.00 VO2 = 0.25 Latency: N K_A = 1.0
NUM FLAG: OFF Wassertemp.: 20.00 Wasserdichte: 998.20300
Korrektur: Y GFHI= 0.93 GFLO= 0.93 LAST STOP= 3.0 m First Stop = 12.0 m
Tiefe: 42.00 Zeit: 25.0 max. Tiefe= 42.00 ges. Tauchzeit= 25.0
berechnete Kompartimentwerte mit N2 Matrix: ZH-L He Matrix: ZH-L
Nr.: 1 1.5223 P N2 2.6413 P HE Sum.= 4.1636 Ceil. m= 1.70 Putol: 1.179
Nr.: 2 1.4481 P N2 2.6328 P HE Sum.= 4.0809 Ceil. m= 7.08 Putol: 1.706
Nr.: 3 1.3490 P N2 2.5741 P HE Sum.= 3.9231 Ceil. m= 9.31 Putol: 1.925
Nr.: 4 1.2452 P N2 2.4199 P HE Sum.= 3.6651 Ceil. m= 10.27 Putol: 2.019
Nr.: 5 1.1468 P N2 2.1574 P HE Sum.= 3.3043 Ceil. m= 9.84 Putol: 1.977
Nr.: 6 1.0666 P N2 1.8432 P HE Sum.= 2.9097 Ceil. m= 7.97 Putol: 1.793
Nr.: 7 1.0002 P N2 1.5057 P HE Sum.= 2.5058 Ceil. m= 5.96 Putol: 1.597
Nr.: 8 0.9477 P N2 1.1849 P HE Sum.= 2.1326 Ceil. m= 3.83 Putol: 1.388
Nr.: 9 0.9078 P N2 0.9069 P HE Sum.= 1.8147 Ceil. m= 1.78 Putol: 1.187
Nr.: 10 0.8822 P N2 0.7117 P HE Sum.= 1.5939 Ceil. m= 0.34 Putol: 1.046
Nr.: 11 0.8650 P N2 0.5742 P HE Sum.= 1.4393 Ceil. m= 0.00 Putol: 0.945
Nr.: 12 0.8514 P N2 0.4610 P HE Sum.= 1.3125 Ceil. m= 0.00 Putol: 0.865
Nr.: 13 0.8407 P N2 0.3686 P HE Sum.= 1.2093 Ceil. m= 0.00 Putol: 0.800
Nr.: 14 0.8321 P N2 0.2929 P HE Sum.= 1.1250 Ceil. m= 0.00 Putol: 0.753
Nr.: 15 0.8253 P N2 0.2323 P HE Sum.= 1.0576 Ceil. m= 0.00 Putol: 0.714
Nr.: 16 0.8200 P N2 0.1840 P HE Sum.= 1.0039 Ceil. m= 0.00 Putol: 0.690
was jetzt?a

```

maximale Ceiling: 10.27

Vorschlag Haldane 2:1 [m] = 16.0

Vorschlag Hills, B. A.: DEEP STOP [m] = 26

PDIS fuer TAU = 10 min: 37.68 [m]

PDIS fuer TAU = 20 min: 31.74 [m]

PDIS fuer TAU = 30 min: 28.30 [m]

PDIS fuer TAU = 18.76 min: 25.33 [m]

PDIS fuer TAU = 27.31 min: 19.73 [m]

PDIS fuer TAU = 40.23 min: 14.70 [m]

Eingabe der Austauschstufe in Metern & cm: (m.cm):

Austauschstufe ist zu hoch:

niedriger wie Ceiling waehlen!

Deko Prognose:

12m Stopp Prognose Dekozeit: 2.0 Komp. #: 5

9m Stopp Prognose Dekozeit: 4.0 Komp. #: 5

6m Stopp Prognose Dekozeit: 10.0 Komp. #: 7

3m Stopp Prognose Dekozeit: 21.0 Komp. #: 9

TTS = 41.0

Deko Prognose mit Gradientenfaktoren: GFHI= 0.93 GFLO= 0.93

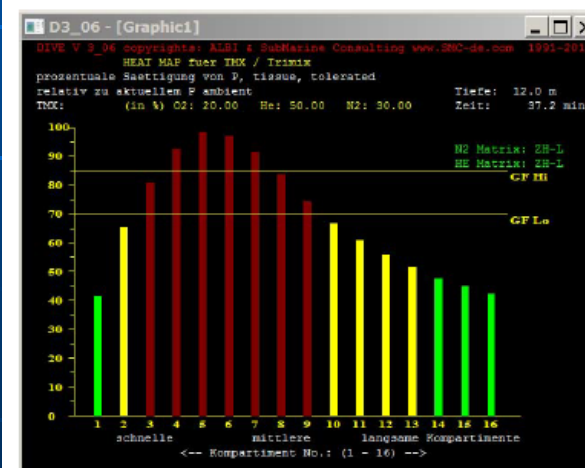
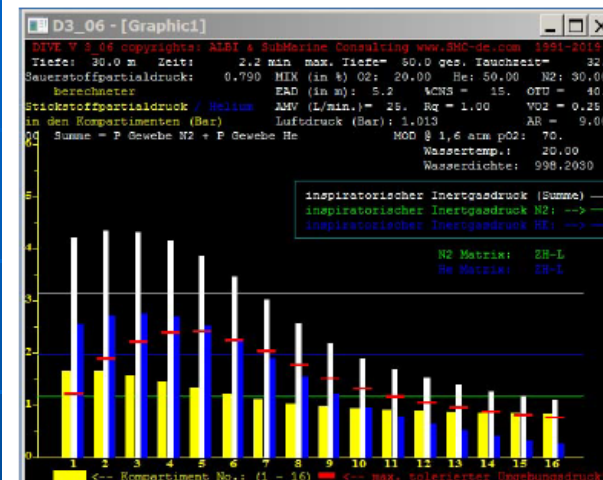
12m Stopp Prognose Dekozeit: 3.0 GF = 0.93 Komp. #: 5

9m Stopp Prognose Dekozeit: 5.0 GF = 0.93 Komp. #: 6

6m Stopp Prognose Dekozeit: 11.0 GF = 0.93 Komp. #: 7

3m Stopp Prognose Dekozeit: 26.0 GF = 0.93 Komp. #: 9

TTS = 49.0



THE

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GROUP

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Box Profile 42 m / 25 min:

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Standard Bühlmann ZH-L16C-1a 2002

Dekompression:

- * Sättigungs Faktor (CF11) = 100 %
- * Entsättigungs faktor (CF12) = 100 %
- * deko abweichung (CF16) = 1.0 m
- * Letzter Stopp (CF29) = 3 m
- * Tauchgang Start mit Pamb = 1013 mbar
- * Gas Wechsel Verzögerung (CF55) = 0 min

OC Gas Liste:

- * erstes Gas#2 = Tx21/50

...

==== OC Runtime ====

25:08 42.0m Deko:

42 m 25 ' 25.0 ' Gas#2

9 m 3 ' 31.3 '

6 m 9 ' 40.6 '

3 m 23 ' 63.9 '

0 m ---- 64.9 '

TTS = 40 '

CNS = 11%

Bühlmann ZH-L16C-1a 2002 mit **Gradienten Faktor** Sicherheitsmarge:

- * GF_low (CF32) = 93 %
- * GF_high (CF33) = 93 %
- * deko abweichung (CF16) = 1.0 m
- * Letzter Stopp (CF29) = 3 m
- * Tauchgang Start mit Pamb = 1013 mbar
- * Gas Wechsel Verzögerung (CF55) = 0 min

OC Gas Liste:

- * erstes Gas#2 = Tx21/50

...

==== OC Runtime ====

25:06 44.0m Deko:

44 m 25 ' 25.0 ' Gas#2

9 m 6 ' 34.5 '

6 m 12 ' 46.8 '

3 m 31 ' 78.1 '

0 m ---- 79.1 '

TTS = 55 '

CNS = 13%

OSTC Planner v2.70.5 - OSTC firmware 2.70 (release)
Der Zweck des OSTC Planner ist es:

- mit den Dekompressions-Parametern (Model, Gradienten Faktoren, Gaswechselzeiten etc.) deines OSTC-Computers heranzuspielen und diese zu verstehen
- simulierte Tauchgänge zu drucken und mit anderen Konfigurationen zu vergleichen (Gas Mix, Deko Tanks, SetPoints, Stopp, etc.)
- den OSTC mit anderen Deko Softwaren zu vergleichen und überprüfen, die OSTC computer Konfiguration zu sichern, bearbeiten und wiederherstellen.

Lizenziert für: NICHT REGISTRIERT, TESTVERSION
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Box Profile 42 m / 25 min:

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Conservatism: 0		Altitude: 0		Temperature: 24		Temp	
Depth	A/R	Inc Time	Run Time	Mode Gas	PO2	O2%	He%
Gas @0							
0 > 42		2:30	2:30	=FO2	=1	=21,0	=50,0
42 > 42		22:30	25:00	FO2	1	1,09	21,0
42 > 21	18	1:10	26:10	FO2	1	0,65	21,0
21 > 21		1:13	27:23	FO2	1	0,65	21,0
21 > 18	18	0:10	27:33	FO2	1	0,59	21,0
18 > 18		2:02	29:35	FO2	1	0,59	21,0
18 > 15	9	0:20	29:55	FO2	1	0,52	21,0
15 > 15		2:42	32:37	FO2	1	0,52	21,0
15 > 12	9	0:20	32:57	FO2	1	0,46	21,0
12 > 12		4:12	37:09	FO2	1	0,46	21,0
12 > 9	9	0:20	37:29	FO2	1	0,40	21,0
9 > 9		5:22	42:51	FO2	1	0,40	21,0
9 > 6	9	0:20	43:11	FO2	1	0,34	21,0
6 > 6		9:00	52:11	FO2	1	0,34	21,0
6 > 3	9	0:20	52:31	FO2	1	0,27	21,0
3 > 3		15:04	67:35	FO2	1	0,27	21,0
3 > 0	9	0:20	67:55	FO2	1	0,21	21,0
***** End *****							

Conservatism: 50		Altitude: 0		Temperature: 24		Temp	
Depth	A/R	Inc Time	Run Time	Mode Gas	PO2	O2%	He%
Gas @0							
0 > 42		2:00	2:00	FO2	1	1,09	21,0
42 > 42		23:00	25:00	FO2	1	1,09	21,0
42 > 27	18	0:50	25:50	FO2	1	0,78	21,0
27 > 24	10	0:18	26:08	FO2	1	0,71	21,0
24 > 24		1:51	27:59	FO2	1	0,71	21,0
24 > 21	18	0:10	28:09	FO2	1	0,65	21,0
21 > 21		2:30	30:39	FO2	1	0,65	21,0
21 > 18	18	0:10	30:49	FO2	1	0,59	21,0
18 > 18		3:39	34:28	FO2	1	0,59	21,0
18 > 15	9	0:20	34:48	FO2	1	0,52	21,0
15 > 15		5:18	40:06	FO2	1	0,52	21,0
15 > 12	9	0:20	40:26	FO2	1	0,46	21,0
12 > 12		6:59	47:25	FO2	1	0,46	21,0
12 > 9	9	0:20	47:45	FO2	1	0,40	21,0
9 > 9		11:32	59:17	FO2	1	0,40	21,0
9 > 6	9	0:20	59:37	FO2	1	0,34	21,0
6 > 6		19:16	78:53	FO2	1	0,34	21,0
6 > 3	9	0:20	79:13	FO2	1	0,27	21,0
3 > 3		29:12	108:25	FO2	1	0,27	21,0
3 > 0	9	0:20	108:45	FO2	1	0,21	21,0
***** End *****							

English
Version: 4.02a
Professional Edition

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TEXAS
MADE

Cochran

TMX 21 / 50 Box Profile: 42 m / 25 min bottom time Delta-Analysis DIVE / Subsurface / MultiDeco

SUB
MARINE
CONSULTING

Stop Depth [m]/ [min]	DIVE 3_07 (1)	DIVE 3_07 (1a)	DIVE 3_07 (2)	Sub- surface 4.9.3.0 (1)	Sub- surface 4.9.3.0 (1a)	Sub- surface 4.9.3.0 (2)	MultiDeco 4.14 (1)	MultiDeco 4.14 (1a)	MultiDeco 4.14 (2)
12	1	2	3			1	-	1	1
9	4	4	5	3	5	7	3	4	6
6	9	10	11	10	11	12	8	10	10
3	20	21	26	21	23	29	23	23	25
TTS [min]	38	41	49	39	44	52	34	41	45
%CNS / OTU			11 29			11 34			11 30

Delta-Analysis: TTS DIVE – TTS Subsurface / TTS DIVE:

- 1 / 38 = - 2,6 %
- 3 / 41 = - 7,3 %
- 3 / 49 = - 6,1 %

Delta-Analysis: TTS DIVE – TTS MultiDeco / TTS DIVE:

+ 4 / 38 = + 10,5 %
+ 0 / 41 = 0 %
+ 4 / 49 = + 8,1 %

(1): GF 100
(1a): GF 100 + Bühlmann Depth Safety Factor
(2): GF Hi = GF Lo = 93 + Depth Safety Factor

Stop Depth [m]	Ratio V 1.5 013	DP1 (1) [DP1]	DP2 (1a) [DP2]	DP3 (2) [DP2]	DIVE 3_07 (1)	DIVE 3_07 (1a)	DIVE 3_07 (2)	OSTC 270.5 (1)/(2)	Analys 4024 PE
15	-	2	-	-	-	-	-	-	24 / 12 18 / 12 / 8
12	2	4	-	-	1	2	3	-	5 / 7
9	11	9	2	4	5	4	5	3 / 6	6 / 12
6	16	17	9	10	11	10	11	9 / 12	9 / 19
3	40	30	19	21	26	20	21	23 / 31	16 / 29
TTS	75	66	31 [34]	36 [37]	44 [47]	38	41	49	40 / 55 41 / 80