

DIVE TABLES

- Based On Mathematical Model
- IANTD Uses Bühlman Tables
- Not “Guaranteed” Protection From DCS
- Surface Interval & Repetitive Dives Schedules
- Safety & Mandatory Decompression Stops



- Depth-Time Values Based On Mathematical Model
- 6 Different Tables Commonly Used In U.S.
- PADI Recreational Dive Planner & NAUI Dive Tables (Modified USN) Common Use
- Not “Guaranteed” Protection from DCS
- Maximum Depth & Time
- Surface Interval & Repetitive Dives Schedules
- Rate Of Ascent (10 m/min.)
- Safety & Mandatory Decompression Stops

DIVE TABLES

IANTD OPEN WATER AIR DECOMPRESSION TABLES

Depth m	ft	M in	Meters Feet		R	G	Depth m	ft	M in	Meters Feet		R	G
			6	4.5						6	4.5		
12	40	150		1	G	24	80	60	1	26	G		
15	50	80		2	G	27	90	70	3	38	G		
		90		5	G			80	5	46	H		
		120		19	H			25	5	F			
18	60	60		6	F	30	100	30		9	F		
		70		11	G			40		17	G		
		80		16	G			50	3	26	G		
		90		24	H			20	5	E			
		100		31	H			25	9	F			
21	70	110		37	H	33	110	25	1	11	F		
		120		45	K			30	1	12	F		
		45		5	F			15	3	D			
		50		10	F			20	7	E			
		60		17	G			25	1	11	F		
24	80	70		24	H	36	120	15	5	E			
		80		35	H			20	1	9	E		
		90		43	H			12	4	E			
		100		52	H			15	1	6	F		
		110		61	K			10	3	D			
24	80	120		87	K	42	140	15	2	7	F		
		30		5	F			45	150	10	4	E	
40		11	F										

COPYRIGHT 2001 IAND, INC. / REPETITIVE DIVER, INC.
WWW.IANTD.COM C-38000

IANTD OPEN WATER AIR DIVING & DECOMPRESSION TABLES

Depth m	ft	M in	Meters Feet		R	G	Depth m	ft	M in	Meters Feet		R	G
			6	4.5						6	4.5		
12	40	150		1	G	24	80	60	1	26	G		
15	50	80		2	G	27	90	70	3	38	G		
		90		5	G			80	5	46	H		
		120		19	H			25	5	F			
18	60	60		6	F	30	100	30		9	F		
		70		11	G			40		17	G		
		80		16	G			50	3	26	G		
		90		24	H			20	5	E			
		100		31	H			25	9	F			
21	70	110		37	H	33	110	25	1	11	F		
		120		45	K			30	1	12	F		
		45		5	F			15	3	D			
		50		10	F			20	7	E			
		60		17	G			25	1	11	F		
24	80	70		24	H	36	120	15	5	E			
		80		35	H			20	1	9	E		
		90		43	H			12	4	E			
		100		52	H			15	1	6	F		
		110		61	K			10	3	D			
24	80	120		87	K	42	140	15	2	7	F		
		30		5	F			45	150	10	4	E	
40		11	F										

RESIDUAL NITROGEN TIME

Depth (m)	Depth (ft)	M (min)	R	G
12	40	150		
15	50	80		
18	60	60		
21	70	70		
24	80	30		
27	90	25		
30	100	20		
33	110	15		
36	120	10		
39	130	10		
42	140	10		
45	150	10		

WARNING: DO NOT attempt to use these tables unless you are fully trained & certified in the use of Compressed Air, or are under the supervision of a Scuba Instructor. Proper use of these tables will reduce the risk of decompression sickness & oxygen toxicity, but no table or computer can eliminate these risks. These Tables Are For Air With Air As Dive Gas. The 10 Foot (3.0 m) Safety Margin (SM) Is 10 Feet (3.0 m). These Tables Are Based On Bühlmann's ZHL-16 Algorithm For 0-1000 Feet (0-300 m) Above Sea Level. They Were Produced Using Cyberware DRA Software. The Repetitive Dive Groups Are Not Transferable To Other Tables. A Three Minute Safety Stop Is Required For All Dives. These Tables Do Not Account For Physical Condition Of Diver, Difficulty Of Dive, Water Temperature, Etc.

(A) Planned Depth
(B) Bottom Time In Depth Column
(C) Read Across To Find Surface Interval
(D) Leave RNT After S.I.
(E) Read Down To Planned Repetitive Dive Depth. Read RNT

COPYRIGHT 2001 IAND, INC. / REPETITIVE DIVER, INC.
WWW.IANTD.COM C-38000



- Bühlmann ZHL-16 Algorithm
- 0-1000ft (300m) Above Sea Level
- 3 Minute Safety Stop @ 15 FSW (4.5 MSW)
- 30 feet/ minute(10 meters/minute) Ascent Rate

DIVE TABLES

● Planning a Single Dive

(A)	40	50	60	70	80	90	100	110	120	130	140	Depth (Feet)	Repetitive Group ↓
	12	15	18	21	24	27	30	33	36	39	42	Depth (Meters)	
	125	75	51	35	25	20	17	14	12	10	9	No Decompression Limits (Minutes)	

- ↘ Depth
- ↘ Bottom Time
- ↘ Rate of Ascend
- ↘ Safety Stops
- ↘ Use Tables Conservatively!
- ↘ Use Nitrox



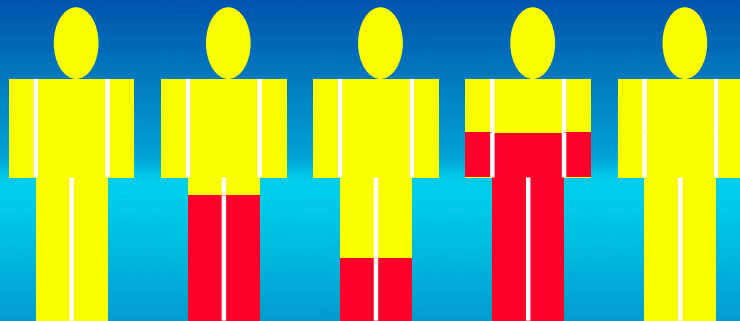
If The Depth Of The Dive Is Between Two Increments, Use The *Deeper* Figure .

PLANNING REPETITIVE DIVES

- All Dives After An Initial One, Until The Residual Nitrogen Has Left The Body
- Up To 48 Hours



RESIDUAL NITROGEN



Before Diving

End Of Dive 1

End Of Surface Interval

End Of Dive 2

Next Day



PLANNING REPETITIVE DIVES

Use of Tables

- Repetitive Group Is A Measure Of Dissolved Nitrogen In Body At End Of Dive
- Credit For Nitrogen Released During Surface Exposure Time (Surface Interval)
- New Pressure Group - Residual Nitrogen Time



PLANNING REPETITIVE DIVES

Use of Tables - Dive 1

- ↘ Depth
- ↘ Bottom Time
- ↘ Repetitive Group
- ↘ Rate of Ascend
- ↘ Safety Stops

(A)	40	50	60	70	80	90	100	110	120	130	140	Depth (Feet)	Repetitive Group
	12	15	18	21	24	27	30	33	36	39	42	Depth (Meters)	
	125	75	51	35	25	20	17	14	12	10	9	No Decompression Limits (Minutes)	
(B) BOTTOM TIMES	19	16	14	12	11	10	9	8	7	7	6		A
	25	20	17	15	13	12	11	10	9	8	7		B
	37	29	25	22	20	18	16	11	10	9	8		D
	57	41	33	28	24	19	17	14	12	10	9		E
	82	59	44	35	25	20							F
	111	65	51										G
	125	75											

Warning: DO NOT attempt to use these tables unless you are fully trained and certified in the use of decompression tables and unless you are under the supervision of a certified instructor. Proper use of these tables will reduce the risk of decompression sickness & oxygen toxicity, but no table or computer can ultimately ensure safety.

These tables are for use for Nitrox (N₂O₂) or Trimix (N₂, O₂, He) gases. They are not to be used for air. These tables are based on the IANTD tables. They were produced using the IANTD software. The repetitive dive group for the transition to any other tables, at three minutes, shall be in the appropriate column. These tables do not account for physical conditions of the diver, altitude of the diver, water temperature, etc.

(A) Planned Depth
(B) Bottom Time to Depth Column
(C) Read Across to First Surface Interval
(D) Lowest BWL After S.I.
(E) Read Down to Planned Repetitive Dive Depth. Repeat BWL

COPYRIGHT 2001
IANTD, INC. / REPETITIVE DIVER, INC.
WWW.IANTD.COM



If The Depth Of The Dive Is Between Two Increments, Use The *Deeper* Figure .

PLANNING REPETITIVE DIVES

Use of Tables - Surface Interval

↙ Time
↙ Repetitive Group

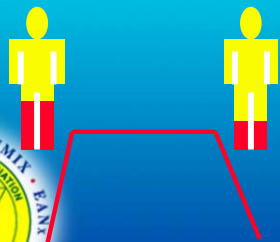
WARNING: DO NOT attempt to use these tables unless you are fully trained and certified in the use of compressed gases and are under the supervision of a diving instructor. Proper use of these tables will reduce the risk of decompression sickness & oxygen toxicity. Not to take or computer use alternative descent tables.

These Tables are for Air Nitrox or Air Nitrox 32. Nitrox 32 is 32% Nitrox. Do Not Use at 10 Feet (3.0 M). These Tables Are Based on: Bühlmann's ZHL-16 Algorithm for 40 min from 01:00 to 01:59. Sea Level, Three Water Production Using Cylinders, 100% Surface, Two Repetitive Dive Groups for No Transferable to APTD Other Tables. At Three Minutes Safety Stop to Reduced Air Nitrox. These Tables Do Not Account for Physical Conditions (i.e. Decompression Illness, Water Temperature, etc.)

LEGEND:
 (A) Planned Depth
 (B) Bottom Time in Depth Column
 (C) Read Across To Find Surface Interval
 (D) Lowest RWL (R.S.)
 (E) Read Down To Planned Repetitive Dive Depth, Round UP!

FEDERAL NITROGEN TIME

Copyright 2001
 IAND, INC. / REPETITIVE DIVER, INC.
 WWW.IANTO.COM



				A	00:00	02:00	
				B	00:00	00:20	02:00
					00:19	01:59	
			C	00:00	00:10	00:25	03:00
				00:09	00:24	02:59	
			D	00:00	00:10	00:15	00:30
				00:09	00:14	00:29	02:59
			E	00:00	00:10	00:15	00:25
				00:09	00:14	00:24	00:44
			F	00:00	00:20	00:30	00:45
				00:19	00:29	00:44	01:14
			G	00:00	00:25	00:45	01:00
				00:24	00:44	00:59	01:14
			H	00:50	01:05	01:35	02:10
				01:04	01:34	02:09	02:59
			K	03:00	04:00	05:00	06:00
				03:59	04:59	05:59	06:59
			L	06:00	07:00	08:30	10:00
				06:59	08:29	09:59	11:59
			I.	G	F	E	D
							C
							B
							A

SURFACE INTERVALS (C)

PLANNING REPETITIVE DIVES

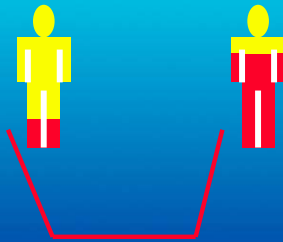
Use of Tables - Dive 2

(A)	40	50	60	70	80	90	100	110	120	130	140	Depth (Feet)	Repetitive Group ↓
	12	15	18	21	24	27	30	33	36	39	42	Depth (Meters)	
	125	75	51	35	25	20	17	14	12	10	9	No Decompression Limits (Minutes)	

↪ RNT + Actual Bottom time < NDL

↪ Rate of Ascend

↪ Safety Stops

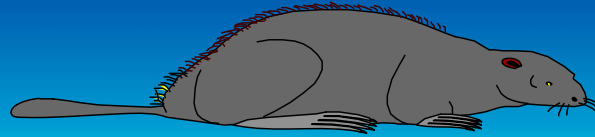


Warning: DO NOT attempt to use these tables unless you are fully trained & certified in the use of Decompression Tables, or are under the supervision of a qualified instructor. Proper use of these tables will reduce the risk of decompression sickness & nitrogen narcosis, but no table or computer can completely remove risk.

These Tables are For Air Nitrox Air Air Open Dive. This is From IANTD's Nitrox (N2/O2) Air Tables for 10 Feet (3.0 M). These Tables are Based On Buhlmann's ZHL-16 Algorithm For a 0.50 L/min (0.015 l/min) Nitrogen Uptake. These Tables are Based On Buhlmann's ZHL-16 Algorithm. You Must Follow All Other Safety Stops & Procedures For All Dives. These Tables do Not Account For Physical Conditions (e.g., Obesity, Difficulty Of Dive, Water Temperature, Etc.).

© IANTD 2001
IANTD, INC. / REPETITIVE DIVER, INC.
WWW.IANTD.COM

***ON REPETITIVE DIVES,
YOU DIVE WITH A RAT!***



RESIDUAL NITROGEN TIME

ACTUAL BOTTOM TIME

TOTAL NITROGEN TIME



DIVE PROFILE ON SLATE

Time In	Time Out	Time In	Time Out	Time In	Time Out
_____	_____	_____	_____	_____	_____
	Group	Group	Group	Group	Group
	_____	_____	_____	_____	_____
1	SIT	2	SIT	3	
Depth	_____	Depth	_____	Depth	
					R _____
					A _____
					T _____

