

# COMBINED AIR/EANx DIVE TABLES

DOPPLER NO-DECOMPRESSION LIMITS BASED ON U.S. NAVY DIVE TABLES

## TABLE 1 No-Decompression Limits and Repetitive Group Designation Table For No-Decompression Dives

DEPTH IN FEET			Doppler limits (minutes)	HOW TO USE TABLE 1: Find the planned depth of your dive in feet at the far left of Table 1. Read to the right until you find the time (minutes) you plan to spend at that depth. Read down to find the Group Designation letter.											
AIR PO <sub>2</sub>	EAN32 PO <sub>2</sub>	EAN36 PO <sub>2</sub>													
10 0.27	16 0.48	20 0.38		60	120	210	300								
15 0.31	22 0.54	26 0.65		35	70	110	160	225	350						
20 0.34	28 0.60	32 0.71		25	50	75	100	135	180	240	325				
25 0.37	34 0.65	38 0.76	245	20	35	55	75	100	125	160	195	245			
30 0.40	40 0.71	44 0.85	205	15	30	45	60	75	95	120	145	170	205		
35 0.43	46 0.77	50 0.92	160	5	15	25	40	50	60	80	100	120	140	160	
40 0.47	51 0.82	57 0.98	130	5	15	25	30	40	50	70	80	100	110	130	
50 0.53	63 0.94	69 1.12	70		10	15	25	30	40	50	60	70			
60 0.59	75 1.05	81 1.25	50		10	15	20	25	30	40	50				
70 0.66	86 1.16	94 1.39	40		5	10	15	20	30	35	40				
80 0.72	98 1.27	106 1.52	30		5	10	15	20	25	30					
90 0.78	109 1.39		25		5	10	12	15	20	25					
100 0.85	121 1.50		20		5	7	10	15	20						
110 0.91	130 1.58		15			5	10	13	15						
120 0.97			10			5	10								
130 1.04			5			5									

GROUP DESIGNATION:

**A B C D E F G H I J K**

### HOW TO USE TABLE 2:

Enter with the Group Designation letter from Table 1. Follow the arrow down to the corresponding letter on Table 2. To the left of these letters are windows of time. Read to the left until you find the times between which your surface interval falls. Then read down until you find your New Group Designation letter. Dives following surface intervals of more than 12 hours are not repetitive dives.

TABLE 2		Residual Nitrogen Timetable For Repetitive Dives											
0:10 12:00*		<b>A</b>											
3:21 12:00*	0:10 3:20	<b>B</b>											
4:50 12:00*	1:40 4:49	0:10 1:39	<b>C</b>										
5:49 12:00*	2:39 5:48	1:10 2:38	0:10 1:09	<b>D</b>									
6:35 12:00*	3:25 6:34	1:58 3:24	0:55 1:57	0:10 0:54	<b>E</b>								
7:06 12:00*	3:58 7:05	2:29 3:57	1:30 2:28	0:46 1:29	0:10 0:45	<b>F</b>							
7:36 12:00*	4:26 7:35	2:59 4:25	2:00 2:58	1:16 1:59	0:41 1:15	0:10 0:40	<b>G</b>						
8:00 12:00*	4:50 7:59	3:21 4:49	2:24 3:20	1:42 2:23	1:07 1:41	0:37 1:06	0:10 0:36	<b>H</b>					
8:22 12:00*	5:13 8:21	3:44 5:12	2:45 3:43	2:03 2:44	1:30 2:02	1:00 1:29	0:34 0:59	0:10 0:33	<b>I</b>				
8:51 12:00*	5:41 8:50	4:03 5:40	3:05 4:02	2:21 3:04	1:48 2:20	1:20 1:47	0:55 1:19	0:32 0:54	0:10 0:31	<b>J</b>			
8:59 12:00*	5:49 8:58	4:20 5:48	3:22 4:19	2:39 3:21	2:04 2:38	1:36 2:03	1:12 1:35	0:50 1:11	0:29 0:49	0:10 0:28	<b>K</b>		
NEW GROUP DESIGNATION		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>	<b>K</b>	
REPETITIVE DIVE DEPTH		▼ RESIDUAL NITROGEN TIMES DISPLAYED ON REVERSE ▼											

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**TABLE 3**

## Residual Nitrogen Times (Minutes)

— CONTINUED FROM REVERSE SIDE —

NEW GROUP DESIGNATION ▶			A	B	C	D	E	F	G	H	I	J	K	
REPETITIVE DIVE DEPTH IN FEET			■ =ADJUSTED NO-DECOMPRESSION TIME LIMITS										NIL=NO LIMIT	
AIR PO <sub>2</sub>	EAN32 PO <sub>2</sub>	EAN36 PO <sub>2</sub>												
10 0.27	16 0.48	20 0.58	39 N/L	88 N/L	159 N/L	279 N/L								
20 0.34	28 0.60	32 0.71	18 N/L	39 N/L	62 N/L	88 N/L	120 N/L	159 N/L	208 N/L	279 N/L	399 N/L			
30 0.40	40 0.71	44 0.85	12 193	25 180	39 166	54 151	70 135	88 117	109 96	132 73	159 46	190 15		
40 0.47	51 0.82	57 0.98	7 123	17 113	25 105	37 93	49 81	61 69	73 57	87 43	101 29	116 14		
50 0.53	63 0.94	69 1.12	6 64	13 57	21 49	29 41	38 32	47 23	56 14	66 4				
60 0.59	75 1.05	81 1.25	5 45	11 39	17 33	24 26	30 20	36 14	44 6					
70 0.66	86 1.16	94 1.39	4 36	9 31	15 25	20 20	26 14	31 9	37 3					
80 0.72	98 1.27	106 1.52	4 26	8 22	13 17	18 12	23 7	28 2						
90 0.78	109 1.39		3 22	7 18	11 14	16 9	20 5	24 1						
100 0.85	121 1.50		3 17	7 13	10 10	14 6	18 2							
110 0.91	30 1.58		3 12	6 9	10 5	13 2								
120 0.97			3 7	6 4	9 1									
130 1.04			3 2											

### HOW TO USE TABLE 3:

Enter with the New Group Designation letter from Table 2. Next, find the planned depth of your repetitive dive in feet at the far left of Table 3. The box that intersects the Repetitive Dive Depth and the New Group Designation will have two numbers. The top number indicates the Residual Nitrogen Time. The bottom number indicates the maximum Adjusted No-Decompression Time Limit for the next dive.

### HOW TO USE TABLE 3:

Enter with the New Group Designation letter from Table 2. Next, find the planned depth of your repetitive dive in feet at the far left of Table 3. The box that intersects the Repetitive Dive Depth and the New Group Designation will have two numbers. The top number indicates the Residual Nitrogen Time. The bottom number indicates the maximum Adjusted No-Decompression Time Limit for the next dive.

**1** RG \_\_\_\_\_ SI \_\_\_\_\_ RG => (for next dive this day)

ft. (m.) \_\_\_\_\_

**Computer Dive (fill out color items)**

End PSI(Bar): \_\_\_\_\_ Used: \_\_\_\_\_

SAC = \_\_\_\_\_ psi/min. (bar/min.) Ascent OK: ☐

RT \_\_\_\_\_

BT \_\_\_\_\_

TT \_\_\_\_\_

**2** RG \_\_\_\_\_ SI \_\_\_\_\_ RG => (for next dive this day)

ft. (m.) \_\_\_\_\_

**Computer Dive (fill out color items)**

End PSI(Bar): \_\_\_\_\_ Used: \_\_\_\_\_

SAC = \_\_\_\_\_ psi/min. (bar/min.) Ascent OK: ☐

RT \_\_\_\_\_

BT \_\_\_\_\_

TT \_\_\_\_\_

**WARNING:** The U.S. Navy Dive Tables were designed to Navy specifications for use by Navy Divers. When used by recreational divers, the tables should be used conservatively. Even when used correctly with proper safety procedures, **decompression sickness may still occur.**

**SAFETY STOP PROCEDURE:** It is recommended that you make a 3- to 5-minute safety stop at 15 feet on all dives over 30 feet.

**OMITTED DECOMPRESSION PROCEDURE:** Should you exceed the Doppler No-Decompression Time Limits by less than 5 minutes on any dive, it is recommended that you ascend normally to 15 feet and stop for at least 10 minutes or longer if your air supply allows. Should you exceed the Doppler No-Decompression Time Limits by more than 5 minutes but less than 10 minutes on any dive, it is recommended that you stop at 15 feet for at least 20 minutes or longer if your air supply allows.

**Refrain from any further scuba diving activities for at least 24 hours.**