NITROX DIVE TABLES A

The NOAA Nitrox No-Decompression Dive Tables were developed using the U.S. Navy Air Decompression Tables 9-7 and 9-8 published in the *U.S. Navy Diving Manual* (2008).

The dive times listed in the NOAA tables were derived by calculating the equivalent air depth (EAD) for each nitrox mixture between 28% and 40% oxygen. NOAA used the following EAD formula:

$$EAD = \left[\left(\frac{(1 - FO_2)}{0.79} \right) (D + 33) \right] - 33$$

$$EAD = \left[\left(\frac{(1 - FO_2)}{0.79} \right) (D + 10) \right] - 10$$

Table depths range from 40 fsw (12.3 msw) to the depth at which the partial pressure of oxygen in the mixture reached a maximum of 1.6 atmospheres absolute. Depths are listed in 5 or 10 fsw (1.5 or 3.1 msw) intervals. On certain tables, the maximum no-decompression limit displayed exceeds the NOAA Oxygen Partial Pressure Limit for single exposures; these numbers are highlighted in yellow. The decision to display the maximum allowable bottom time per the U.S. Navy Air Decompression Table instead of the maximum time allowed based on oxygen exposure was due to the inordinate amount of time permitted by either set of numbers. Both were deemed so great that the average NOAA diver would never reach, let alone exceed, either amount of time.

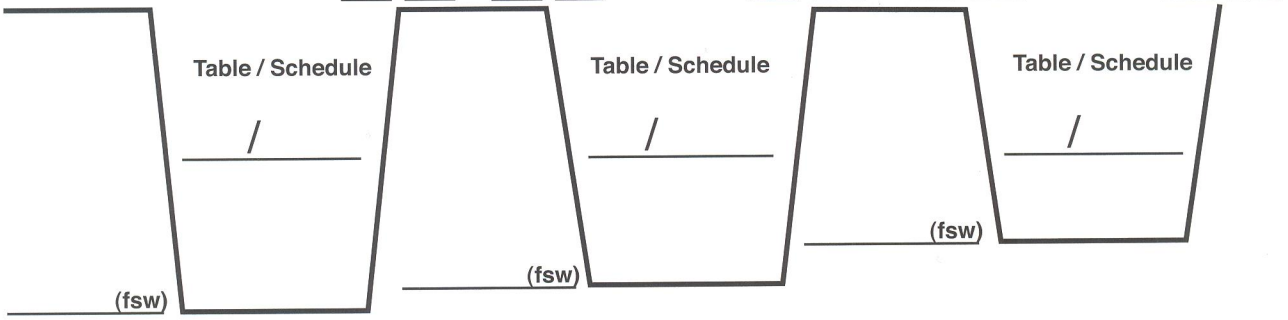
During EAD calculations, all depths were rounded to the nearest foot. Calculations ≥0.5 ft (0.15 m) were rounded up to the next whole foot, while those <0.5 ft (0.15 m) were rounded down to the next whole foot. For example, in the NOAA Nitrox 36% No-Decompression Dive Table, the EAD calculation for 45 fsw (13.8 msw) is 30.7 fsw (9.4 msw). In this case, 0.7 ft exceeds 0.5 ft; therefore, the depth was rounded up to 31 fsw (9.5 msw), placing the diver on the 35 fsw (10.7 msw) table. In the NOAA Nitrox 32% No-Decompression Dive Table, the EAD calculation for 40 fsw (12.3 msw) is 30.3 fsw (9.3 msw). In this case, 0.3 feet is less than 0.5; therefore, the depth was rounded down to 30 fsw (9.2 msw), placing the diver on the 30 fsw (9.2 msw) table.

Considering that most depth gauges are only accurate to ±3 fsw, a variation of +0.4 fsw (0.1 msw), which equates to an actual measurement of 4.8 in (12.2 cm), was deemed acceptable from a safety perspective.

NITROX DIVE PLANNING WORKSHEET

Group Letter: ◯ SIT ___:___ ◯ ◯ SIT ___:___ ◯ ◯

Time: ___:___ ___:___ ___:___ ___:___ ___:___ ___:___



RNT = 0 **PO_2** _____
ABT = _____ **% Limit** ___
ESDT = _____

RNT = _____ **PO_2** _____
ABT = _____ **% Limit** ___
ESDT = _____

RNT = _____ **PO_2** _____
ABT = _____ **% Limit** ___
ESDT = _____

ABT – Actual Bottom Time – The time from the moment of descent until beginning a direct ascent to surface.

ESDT – Equivalent Single Dive Time – The sum of the RNT and ABT. This figure is used to obtain a group letter on Chart 1 for a repetitive dive.

Group Letter – A letter symbol for the Residual Nitrogen remaining in the body from a previous dive. Place in circle.

Oxygen Exposure Percent Limit – Maximum time on a single dive that the diver can be exposed to a certain partial pressure of oxygen.

PO_2 – Partial pressure of oxygen for the maximum depth obtained.

Repetitive Dive – Any dive made within 12 hours of a previous dive.

RNT – Residual Nitrogen Time – The time to be considered in planning a repetitive dive due to nitrogen remaining in the body from previous dives within the last 15 hours and 50 minutes.

Safety Stop – A 3–5 minute safety stop at 15–20 fsw (4.6–6.1 msw) is strongly recommended for all dives deeper than 60 fsw (18.4 msw) and all repetitive dives.

SIT – Surface Interval Time – The time spent at the surface between dives.

Single Dive Oxygen Exposure Limits

PO_2 atm	Minutes
1.60	45
1.55	83
1.50	120
1.45	135
1.40	150
1.35	165
1.30	180
1.25	195
1.20	210

Remember

- Ascend no faster than 30 feet per minute (1 foot every 2 seconds/0.9m/min).

NO-DECOMPRESSION TABLE
NOAA NITROX 28

ONLY FOR 28% O_2, 72% N_2 MIXTURES

NDP 11-2016

WARNING: EVEN STRICT COMPLIANCE WITH THESE CHARTS WILL NOT GUARANTEE AVOIDANCE OF DECOMPRESSION SICKNESS, CONSERVATIVE USAGE IS STRONGLY RECOMMENDED.

RNT RESIDUAL NITROGEN TIME

+ABT ACTUAL BOTTOM TIME

ESDT EQUIVALENT SINGLE DIVE TIME

CHART 1 – DIVE TIMES WITH END-OF-DIVE GROUP LETTER

PO_2	START DEPTH msw	START DEPTH fsw		00	MAXIMUM NO-STOP TIME													00
					DIVE TIME REQUIRING DECOMPRESSION – Top / MINUTES REQUIRED AT 20 fsw STOP (6.1 msw) - Bottom													00
0.62	12.3	40	14	23	32	42	52	63	74	87	100	115	131	148	168	190	215	232
0.66	13.8	45	12	20	27	36	44	53	63	73	84	95	108	121	135	151	163	180 / 14
0.70	15.3	50	11	17	24	31	39	46	55	63	72	82	92	102	114	125	130 / 2	150 / 25
0.75	16.9	55	9	15	21	28	34	41	48	56	63	71	80	89	92	100 / 4	110 / 8	130 / 34
0.79	18.4	60	8	14	19	25	31	37	43	50	56	63	71	74	80 / 4	90 / 10	100 / 17	
0.87	21.4	70	6	10	14	19	23	28	32	37	42	47	48	55 / 9	60 / 14	70 / 24		
0.96	24.5	80	6	10	14	19	23	28	32	37	42	47	48	55 / 9	60 / 14	70 / 24		
1.04	27.6	90	5	9	12	16	20	24	28	32	36	39	45 / 10		50 / 17	60 / 30		
1.13	30.6	100	4	7	11	14	17	21	24	28	30	35 / 4		40 / 14	45 / 23			
1.21	33.7	110	4	6	9	12	15	18	21	25		30 / 3		35 / 15	40 / 26			
1.30	36.8	120	3	6	8	11	14	16	19	20	25 / 3		30 / 14		35 / 27			
1.38	39.8	130	3	5	7	10	12	15		20 / 2		25 / 8		30 / 24				

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Z
	2:20 / 0:10	3:36 / 1:17	4:31 / 2:12	5:23 / 3:04	6:15 / 3:56	7:08 / 4:49	8:00 / 5:41	8:52 / 6:33	9:44 / 7:25	10:36 / 8:17	11:29 / 9:10	12:21 / 10:02	13:13 / 10:54	14:05 / 11:46	14:58 / 12:38	15:50 / 13:31
B		1:16 / 0:10	2:11 / 0:56	3:03 / 1:48	3:55 / 2:40	4:48 / 3:32	5:40 / 4:24	6:32 / 5:17	7:24 / 6:09	8:16 / 7:01	9:09 / 7:53	10:01 / 8:45	10:53 / 9:38	11:45 / 10:30	12:37 / 11:22	13:30 / 12:14
C			0:55 / 0:10	1:47 / 0:53	2:39 / 1:45	3:31 / 2:38	4:23 / 3:30	5:16 / 4:22	6:08 / 5:14	7:00 / 6:07	7:52 / 6:59	8:44 / 7:51	9:37 / 8:43	10:29 / 9:35	11:21 / 10:28	12:13 / 11:20
D				0:52 / 0:10	1:44 / 0:53	2:37 / 1:45	3:29 / 2:38	4:21 / 3:30	5:13 / 4:22	6:06 / 5:14	6:58 / 6:07	7:50 / 6:59	8:42 / 7:51	9:34 / 8:43	10:27 / 9:35	11:19 / 10:28
E					0:52 / 0:10	1:44 / 0:53	2:37 / 1:45	3:29 / 2:38	4:21 / 3:30	5:13 / 4:22	6:06 / 5:14	6:58 / 6:07	7:50 / 6:59	8:42 / 7:51	9:34 / 8:43	10:27 / 9:35
F						0:52 / 0:10	1:44 / 0:53	2:37 / 1:45	3:29 / 2:38	4:21 / 3:30	5:13 / 4:22	6:06 / 5:14	6:58 / 6:07	7:50 / 6:59	8:42 / 7:51	9:34 / 8:43
G							0:52 / 0:10	1:44 / 0:53	2:37 / 1:45	3:29 / 2:38	4:21 / 3:30	5:13 / 4:22	6:06 / 5:14	6:58 / 6:07	7:50 / 6:59	8:42 / 7:51
H								0:52 / 0:10	1:44 / 0:53	2:37 / 1:45	3:29 / 2:38	4:21 / 3:30	5:13 / 4:22	6:06 / 5:14	6:58 / 6:07	7:50 / 6:59
I									0:52 / 0:10	1:44 / 0:53	2:37 / 1:45	3:29 / 2:38	4:21 / 3:30	5:13 / 4:22	6:06 / 5:14	6:58 / 6:07
J										0:52 / 0:10	1:44 / 0:53	2:37 / 1:45	3:29 / 2:38	4:21 / 3:30	5:13 / 4:22	6:06 / 5:14
K											0:52 / 0:10	1:44 / 0:53	2:37 / 1:45	3:29 / 2:38	4:21 / 3:30	5:13 / 4:22
L												0:52 / 0:10	1:44 / 0:53	2:37 / 1:45	3:29 / 2:38	4:21 / 3:30
M													0:52 / 0:10	1:44 / 0:53	2:37 / 1:45	3:29 / 2:38
N														0:52 / 0:10	1:44 / 0:53	2:37 / 1:45
O															0:52 / 0:10	1:44 / 0:53
Z																0:52 / 0:10

CHART 2 – SURFACE INTERVAL TIME

TIME RANGES ARE HOURS:MINUTES
ENTER FROM THE TOP, MOVE TO FIND SURFACE INTERVAL TIME.
MOVE LEFT TO FIND THE NEW REPETITIVE GROUP LETTER

CHART 3 – REPETITIVE DIVE TIME

RED NUMBERS ARE RESIDUAL NITROGEN TIMES (RNT).
BLACK NUMBERS ARE ADJUSTED NO-STOP REPETITIVE DIVE TIMES.
ACTUAL DIVE TIME SHOULD NOT EXCEED THIS NUMBER.

00 00

REPETITEVE DIVES SHALLOWER THAN 40 fsw (12.3 msw) MUST USE THE 40 fsw (12.3 msw) REPETITIVE SCHEDULE

PO_2	0.62	0.66	0.70	0.75	0.79	0.87	0.96	1.04	1.13	1.21	1.30	1.38	
msw	12.3	13.8	15.3	16.9	18.4	21.4	24.5	27.6	30.6	33.7	36.8	39.8	GROUP LETTER
fsw	40	45	50	55	60	70	80	90	100	110	120	130	
	15 / 217	13 / 150	12 / 113	11 / 81	10 / 64	8 / 40	8 / 40	7 / 32	6 / 24	5 / 20	5 / 15	5 / 10	A
	24 / 208	21 / 142	18 / 107	17 / 75	15 / 59	12 / 36	12 / 36	10 / 29	9 / 21	8 / 17	8 / 12	7 / 8	B
	33 / 199	29 / 134	25 / 100	23 / 69	20 / 54	16 / 32	16 / 32	14 / 25	12 / 18	11 / 14	10 / 10	9 / 6	C
	43 / 189	37 / 126	32 / 93	29 / 63	26 / 48	20 / 28	20 / 28	18 / 21	16 / 14	14 / 11	13 / 7	12 / 3	D
	53 / 179	45 / 118	40 / 85	35 / 57	32 / 42	25 / 23	25 / 23	22 / 17	19 / 11	17 / 8	16 / 4	14 / 1	E
	64 / 168	55 / 108	48 / 77	42 / 50	38 / 36	29 / 19	29 / 19	25 / 14	22 / 8	20 / 5	18 / 2		F
	75 / 157	64 / 99	56 / 69	49 / 43	44 / 30	34 / 14	34 / 14	29 / 10	26 / 4	23 / 2			G
	88 / 144	74 / 89	64 / 61	57 / 35	51 / 23	39 / 9	39 / 9	33 / 6	29 / 1				H
	101 / 131	85 / 78	73 / 52	65 / 27	58 / 16	44 / 4	44 / 4	38 / 1					I
	116 / 116	97 / 66	83 / 42	73 / 19	65 / 9								J
	132 / 100	109 / 54	93 / 32	81 / 11	72 / 2								K
	149 / 83	122 / 41	104 / 21	90 / 2									L
	169 / 63	136 / 27	115 / 10										M
	191 / 41	152 / 11											N
	216 / 16												O
													Z

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NO-DECOMPRESSION TABLE
NOAA NITROX 32

ONLY FOR 32% O_2, 68% N_2 MIXTURES

WARNING: EVEN STRICT COMPLIANCE WITH THESE CHARTS WILL NOT GUARANTEE AVOIDANCE OF DECOMPRESSION SICKNESS, CONSERVATIVE USAGE IS STRONGLY RECOMMENDED.

RNT RESIDUAL NITROGEN TIME

+ABT ACTUAL BOTTOM TIME

ESDT EQUIVALENT SINGLE DIVE TIME

NDP 11-2016

EXCEEDS NOAA 1.40 PO_2 LIMIT

PO_2	START DEPTH msw	START DEPTH fsw	00	MAXIMUM NO-STOP TIME															00
				DIVE TIME REQUIRING DECOMPRESSION – Top / MINUTES REQUIRED AT 20 fsw STOP *(6.1 msw)* - Bottom															00
0.71	12.3	40	17	27	38	50	62	76	91	107	125	145	167	193	223	260	307	371	
0.76	13.8	45	14	23	32	42	52	63	74	87	100	115	131	148	168	190	215	232	
0.80	15.3	50	12	20	27	36	44	53	63	73	84	95	108	121	135	151	163	180	14
0.85	16.9	55	11	17	24	31	39	46	55	63	72	82	92	102	114	125	130	150	2 25
0.90	18.4	60	9	15	21	28	34	41	48	56	63	71	80	89	92	100	110		4 8
1.00	21.4	70	7	12	17	22	28	33	39	45	51	57	60	65		80	90		2 14 23
1.10	24.5	80	6	10	14	19	23	28	32	37	42	47	48	55	60				9 14
1.19	27.6	90	5	9	12	16	20	24	28	32	36	39	45		50				10 17
1.29	30.6	100	4	7	11	14	17	21	24	28	30	35		40					4 14
1.39	33.7	110	4	7	11	14	17	21	24	28	30	35		40					4 14
1.48	36.8	120	4	6	9	12	15	18	21	25		30		35					3 15
1.58	39.8	130	3	6	8	11	14	16	19	20		25	30						3 14
			A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Z	

CHART 1 – DIVE TIMES WITH END-OF-DIVE GROUP LETTER

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Z
	2:20 0:10	3:36 1:17	4:31 2:12	5:23 3:04	6:15 3:56	7:08 4:49	8:00 5:41	8:52 6:33	9:44 7:25	10:36 8:17	11:29 9:10	12:21 10:02	13:13 10:54	14:05 11:46	14:58 12:38	15:50 13:31
B		1:16 0:10	2:11 0:56	3:03 1:48	3:55 2:40	4:48 3:32	5:40 4:24	6:32 5:17	7:24 6:09	8:16 7:01	9:09 7:53	10:01 8:45	10:53 9:38	11:45 10:30	12:37 11:22	13:30 12:14
C			0:55 0:10	1:47 0:53	2:39 1:45	3:31 2:38	4:23 3:30	5:16 4:22	6:08 5:14	7:00 6:07	7:52 6:59	8:44 7:51	9:37 8:43	10:29 9:35	11:21 10:28	12:13 11:20
D				0:52 0:10	1:44 0:53	2:37 1:45	3:29 2:38	4:21 3:30	5:13 4:22	6:06 5:14	6:58 6:07	7:50 6:59	8:42 7:51	9:34 8:43	10:27 9:35	11:19 10:28
E					0:52 0:10	1:44 0:53	2:37 1:45	3:29 2:38	4:21 3:30	5:13 4:22	6:06 5:14	6:58 6:07	7:50 6:59	8:42 7:51	9:34 8:43	10:27 9:35
F						0:52 0:10	1:44 0:53	2:37 1:45	3:29 2:38	4:21 3:30	5:13 4:22	6:06 5:14	6:58 6:07	7:50 6:59	8:42 7:51	9:34 8:43
G							0:52 0:10	1:44 0:53	2:37 1:45	3:29 2:38	4:21 3:30	5:13 4:22	6:06 5:14	6:58 6:07	7:50 6:59	8:42 7:51
H								0:52 0:10	1:44 0:53	2:37 1:45	3:29 2:38	4:21 3:30	5:13 4:22	6:06 5:14	6:58 6:07	7:50 6:59
I									0:52 0:10	1:44 0:53	2:37 1:45	3:29 2:38	4:21 3:30	5:13 4:22	6:06 5:14	6:58 6:07
J										0:52 0:10	1:44 0:53	2:37 1:45	3:29 2:38	4:21 3:30	5:13 4:22	6:06 5:14
K											0:52 0:10	1:44 0:53	2:37 1:45	3:29 2:38	4:21 3:30	5:13 4:22
L												0:52 0:10	1:44 0:53	2:37 1:45	3:29 2:38	4:21 3:30
M													0:52 0:10	1:44 0:53	2:37 1:45	3:29 2:38
N														0:52 0:10	1:44 0:53	2:37 1:45
O															0:52 0:10	1:44 0:53
Z																0:52 0:10

CHART 2 – SURFACE INTERVAL TIME

TIME RANGES ARE HOURS:MINUTES
ENTER FROM THE TOP, MOVE TO FIND SURFACE INTERVAL TIME.
MOVE LEFT TO FIND THE NEW REPETITIVE GROUP LETTER

PO_2	0.71	0.76	0.80	0.85	0.90	1.00	1.10	1.19	1.29	1.39	1.48	1.58	
msw	12.3	13.8	15.3	16.9	18.4	21.4	24.5	27.6	30.6	33.7	36.8	39.8	GROUP LETTER
fsw	40	45	50	55	60	70	80	90	100	110	120	130	
REPETITEVE DIVES SHALLOWER THAN 40 fsw *(12.3 msw)* MUST USE THE 40 fsw *(12.3 msw)* REPETITIVE SCHEDULE	18 353	15 217	13 150	12 113	11 81	9 51	8 40	7 32	6 24	6 24	5 20	5 15	A
	28 343	24 208	21 142	18 107	17 75	14 46	12 36	10 29	9 21	9 21	8 17	8 12	B
	39 332	33 199	29 134	25 100	23 69	19 41	16 32	14 25	12 18	12 18	11 14	10 10	C
	51 320	43 189	37 126	32 93	29 63	24 36	20 28	18 21	16 14	16 14	14 11	13 7	D
	63 308	53 179	45 118	40 85	35 57	29 31	25 23	22 17	19 11	19 11	17 8	16 4	E
	77 294	64 168	55 108	48 77	42 50	35 25	29 19	25 14	22 8	22 8	20 5	18 2	F
	92 279	75 157	64 99	56 69	49 43	40 20	34 14	29 10	26 4	26 4	23 2		G
	108 263	88 144	74 89	64 61	57 35	46 14	39 9	33 6	29 1	29 1			H
	126 245	101 131	85 78	73 52	65 27	52 8	44 4	38 1					I
	146 225	116 116	97 66	83 42	73 19	58 2							J
	168 203	132 100	109 54	93 32	81 11								K
	194 177	149 83	122 41	104 21	90 2								L
	224 147	169 63	136 27	115 10									M
	261 110	191 41	152 11										N
	308 63	216 16											O
													Z

CHART 3 – REPETITIVE DIVE TIME

RED NUMBERS ARE RESIDUAL NITROGEN TIMES (RNT).
BLACK NUMBERS ARE ADJUSTED NO-STOP REPETITIVE DIVE TIMES.
ACTUAL DIVE TIME SHOULD NOT EXCEED THIS NUMBER.

00 00

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NO-DECOMPRESSION TABLE
NOAA NITROX 36

ONLY FOR 36% O_2, 64% N_2 MIXTURES

WARNING: EVEN STRICT COMPLIANCE WITH THESE CHARTS WILL NOT GUARANTEE AVOIDANCE OF DECOMPRESSION SICKNESS, CONSERVATIVE USAGE IS STRONGLY RECOMMENDED.

RNT RESIDUAL NITROGEN TIME
+ABT ACTUAL BOTTOM TIME
ESDT EQUIVALENT SINGLE DIVE TIME

NDP 11-2016

EXCEEDS NOAA 1.40 PO_2 LIMIT

PO_2	START DEPTH msw	START DEPTH fsw	00	MAXIMUM NO-STOP TIME															00
			DIVE TIME REQUIRING DECOMPRESSION – Top / MINUTES REQUIRED AT 20 fsw STOP (6.1 msw) - Bottom																00
0.80	12.3	40	17	27	38	50	62	76	91	107	125	145	167	193	223	260	307	371
0.85	13.8	45	17	27	38	50	62	76	91	107	125	145	167	193	223	260	307	371
0.91	15.3	50	14	23	32	42	52	63	74	87	100	115	131	148	168	190	215	232
0.96	16.9	55	12	20	27	36	44	53	63	73	84	95	108	121	135	151	163	180 / 14
1.01	18.4	60	11	17	24	31	39	46	55	63	72	82	92	102	114	125	130 / 2	150 / 25
1.12	21.4	70	9	15	21	28	34	41	48	56	63	71	80	89	92	100 / 4	110 / 8	
1.23	24.5	80	7	12	17	22	28	33	39	45	51	57	60	65 / 2		80 / 14	90 / 23	
1.34	27.6	90	6	10	14	19	23	28	32	37	42	47	48	55 / 9	60 / 14			
1.45	30.6	100	5	9	12	16	20	24	28	32	36	39	45 / 10		50 / 17			
1.56	33.7	110	4	7	11	14	17	21	24	28	30	35 / 4		40 / 14				

CHART 1 – DIVE TIMES WITH END-OF-DIVE GROUP LETTER

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Z
	2:20 / 0:10	3:36 / 1:17	4:31 / 2:12	5:23 / 3:04	6:15 / 3:56	7:08 / 4:49	8:00 / 5:41	8:52 / 6:33	9:44 / 7:25	10:36 / 8:17	11:29 / 9:10	12:21 / 10:02	13:13 / 10:54	14:05 / 11:46	14:58 / 12:38	15:50 / 13:31
		1:16 / 0:10	2:11 / 0:56	3:03 / 1:48	3:55 / 2:40	4:48 / 3:32	5:40 / 4:24	6:32 / 5:17	7:24 / 6:09	8:16 / 7:01	9:09 / 7:53	10:01 / 8:45	10:53 / 9:38	11:45 / 10:30	12:37 / 11:22	13:30 / 12:14
			0:55 / 0:10	1:47 / 0:53	2:39 / 1:45	3:31 / 2:38	4:23 / 3:30	5:16 / 4:22	6:08 / 5:14	7:00 / 6:07	7:52 / 6:59	8:44 / 7:51	9:37 / 8:43	10:29 / 9:35	11:21 / 10:28	12:13 / 11:20
				0:52 / 0:10	1:44 / 0:53	2:37 / 1:45	3:29 / 2:38	4:21 / 3:30	5:13 / 4:22	6:06 / 5:14	6:58 / 6:07	7:50 / 6:59	8:42 / 7:51	9:34 / 8:43	10:27 / 9:35	11:19 / 10:28
					0:52 / 0:10	1:44 / 0:53	2:37 / 1:45	3:29 / 2:38	4:21 / 3:30	5:13 / 4:22	6:06 / 5:14	6:58 / 6:07	7:50 / 6:59	8:42 / 7:51	9:34 / 8:43	10:27 / 9:35
						0:52 / 0:10	1:44 / 0:53	2:37 / 1:45	3:29 / 2:38	4:21 / 3:30	5:13 / 4:22	6:06 / 5:14	6:58 / 6:07	7:50 / 6:59	8:42 / 7:51	9:34 / 8:43
							0:52 / 0:10	1:44 / 0:53	2:37 / 1:45	3:29 / 2:38	4:21 / 3:30	5:13 / 4:22	6:06 / 5:14	6:58 / 6:07	7:50 / 6:59	8:42 / 7:51
								0:52 / 0:10	1:44 / 0:53	2:37 / 1:45	3:29 / 2:38	4:21 / 3:30	5:13 / 4:22	6:06 / 5:14	6:58 / 6:07	7:50 / 6:59
									0:52 / 0:10	1:44 / 0:53	2:37 / 1:45	3:29 / 2:38	4:21 / 3:30	5:13 / 4:22	6:06 / 5:14	6:58 / 6:07
										0:52 / 0:10	1:44 / 0:53	2:37 / 1:45	3:29 / 2:38	4:21 / 3:30	5:13 / 4:22	6:06 / 5:14
											0:52 / 0:10	1:44 / 0:53	2:37 / 1:45	3:29 / 2:38	4:21 / 3:30	5:13 / 4:22
												0:52 / 0:10	1:44 / 0:53	2:37 / 1:45	3:29 / 2:38	4:21 / 3:30
													0:52 / 0:10	1:44 / 0:53	2:37 / 1:45	3:29 / 2:38
														0:52 / 0:10	1:44 / 0:53	2:37 / 1:45
															0:52 / 0:10	1:44 / 0:53
																0:52 / 0:10

CHART 2 – SURFACE INTERVAL TIME
TIME RANGES ARE HOURS:MINUTES
ENTER FROM THE TOP, MOVE TO FIND SURFACE INTERVAL TIME.
MOVE LEFT TO FIND THE NEW REPETITIVE GROUP LETTER

PO_2	0.80	0.85	0.91	0.96	1.01	1.12	1.23	1.34	1.45	1.56	GROUP LETTER
msw	12.3	13.8	15.3	16.9	18.4	21.4	24.5	27.6	30.6	33.7	
fsw	40	45	50	55	60	70	80	90	100	110	
REPETITEVE DIVES SHALLOWER THAN 40 fsw (12.3 msw) MUST USE THE 40 fsw (12.3 msw) REPETITIVE SCHEDULE	18 / 353	18 / 353	15 / 217	13 / 150	12 / 113	11 / 81	9 / 51	8 / 40	7 / 32	6 / 24	A
	28 / 343	28 / 343	24 / 208	21 / 142	18 / 107	17 / 75	14 / 46	12 / 36	10 / 29	9 / 21	B
	39 / 332	39 / 332	33 / 199	29 / 134	25 / 100	23 / 69	19 / 41	16 / 32	14 / 25	12 / 18	C
	51 / 320	51 / 320	43 / 189	37 / 126	32 / 93	29 / 63	24 / 36	20 / 28	18 / 21	16 / 14	D
	63 / 308	63 / 308	53 / 179	45 / 118	40 / 85	35 / 57	29 / 31	25 / 23	22 / 17	19 / 11	E
	77 / 294	77 / 294	64 / 168	55 / 108	48 / 77	42 / 50	35 / 25	29 / 19	25 / 14	22 / 8	F
	92 / 279	92 / 279	75 / 157	64 / 99	56 / 69	49 / 43	40 / 20	34 / 14	29 / 10	26 / 4	G
	108 / 263	108 / 263	88 / 144	74 / 89	64 / 61	57 / 35	46 / 14	39 / 9	33 / 6	29 / 1	H
	126 / 245	126 / 245	101 / 131	85 / 78	73 / 52	65 / 27	52 / 8	44 / 4	38 / 1		I
	146 / 225	146 / 225	116 / 116	97 / 66	83 / 42	73 / 19	58 / 2				J
	168 / 203	168 / 203	132 / 100	109 / 54	93 / 32	81 / 11					K
	194 / 177	194 / 177	149 / 83	122 / 41	104 / 21	90 / 2					L
	224 / 147	224 / 147	169 / 63	136 / 27	115 / 10						M
	261 / 110	261 / 110	191 / 41	152 / 11							N
	308 / 63	308 / 63	216 / 16								O
											Z

CHART 3 – REPETITIVE DIVE TIME
RED NUMBERS ARE RESIDUAL NITROGEN TIMES (RNT).
BLACK NUMBERS ARE ADJUSTED NO-STOP REPETITIVE DIVE TIMES.
ACTUAL DIVE TIME SHOULD NOT EXCEED THIS NUMBER.

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NO-DECOMPRESSION TABLE
NOAA NITROX 40
ONLY FOR 40% O_2, 60% N_2 MIXTURES

NDP 11-2016

EXCEEDS NOAA 1.40 PO_2 LIMIT — EXCEEDS MAX PO_2 SINGLE EXPOSURE LIMIT

WARNING: EVEN STRICT COMPLIANCE WITH THESE CHARTS WILL NOT GUARANTEE AVOIDANCE OF DECOMPRESSION SICKNESS, CONSERVATIVE USAGE IS STRONGLY RECOMMENDED.

RNT RESIDUAL NITROGEN TIME
+ABT ACTUAL BOTTOM TIME
ESDT EQUIVALENT SINGLE DIVE TIME

CHART 1 – DIVE TIMES WITH END-OF-DIVE GROUP LETTER

PO_2	START DEPTH msw	START DEPTH fsw	00	MAXIMUM NO-STOP TIME															00
			DIVE TIME REQUIRING DECOMPRESSION – Top / MINUTES REQUIRED AT 20 fsw STOP (6.1 msw) - Bottom																00
0.88	12.3	40	20	33	47	62	78	97	117	140	166	198	236	285	354	469	595		
0.95	13.8	45	17	27	38	50	62	76	91	107	125	145	167	193	223	260	307	371	
1.01	15.3	50	17	27	38	50	62	76	91	107	125	145	167	193	223	260	307	371	
1.07	16.9	55	14	23	32	42	52	63	74	87	100	115	131	148	168	190	215	232	
1.13	18.4	60	12	20	27	36	44	53	63	73	84	95	108	121	135	151	163	180 14	
1.25	21.4	70	11	17	24	31	39	46	55	63	72	82	92	102	114	125	130 12	150 25	
1.37	24.5	80	8	14	19	25	31	37	43	50	56	63	71	74	80 4	90 10			
1.49	27.6	90	7	12	17	22	28	33	39	45	51	57	60	65 2		80 14	90 23		

CHART 2 – SURFACE INTERVAL TIME

TIME RANGES ARE HOURS:MINUTES
ENTER FROM THE TOP, MOVE TO FIND SURFACE INTERVAL TIME.
MOVE LEFT TO FIND THE NEW REPETITIVE GROUP LETTER

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Z
2:20 0:10	3:36 1:17	4:31 2:12	5:23 3:04	6:15 3:56	7:08 4:49	8:00 5:41	8:52 6:33	9:44 7:25	10:36 8:17	11:29 9:10	12:21 10:02	13:13 10:54	14:05 11:46	14:58 12:38	15:50 13:31
	1:16 0:10	2:11 0:56	3:03 1:48	3:55 2:40	4:48 3:32	5:40 4:24	6:32 5:17	7:24 6:09	8:16 7:01	9:09 7:53	10:01 8:45	10:53 9:38	11:45 10:30	12:37 11:22	13:30 12:14
		0:55 0:10	1:47 0:53	2:39 1:45	3:31 2:38	4:23 3:30	5:16 4:22	6:08 5:14	7:00 6:07	7:52 6:59	8:44 7:51	9:37 8:43	10:29 9:35	11:21 10:28	12:13 11:20
			0:52 0:10	1:44 0:53	2:37 1:45	3:29 2:38	4:21 3:30	5:13 4:22	6:06 5:14	6:58 6:07	7:50 6:59	8:42 7:51	9:34 8:43	10:27 9:35	11:19 10:28
				0:52 0:10	1:44 0:53	2:37 1:45	3:29 2:38	4:21 3:30	5:13 4:22	6:06 5:14	6:58 6:07	7:50 6:59	8:42 7:51	9:34 8:43	10:27 9:35
					0:52 0:10	1:44 0:53	2:37 1:45	3:29 2:38	4:21 3:30	5:13 4:22	6:06 5:14	6:58 6:07	7:50 6:59	8:42 7:51	9:34 8:43
						0:52 0:10	1:44 0:53	2:37 1:45	3:29 2:38	4:21 3:30	5:13 4:22	6:06 5:14	6:58 6:07	7:50 6:59	8:42 7:51
							0:52 0:10	1:44 0:53	2:37 1:45	3:29 2:38	4:21 3:30	5:13 4:22	6:06 5:14	6:58 6:07	7:50 6:59
								0:52 0:10	1:44 0:53	2:37 1:45	3:29 2:38	4:21 3:30	5:13 4:22	6:06 5:14	6:58 6:07
									0:52 0:10	1:44 0:53	2:37 1:45	3:29 2:38	4:21 3:30	5:13 4:22	6:06 5:14
										0:52 0:10	1:44 0:53	2:37 1:45	3:29 2:38	4:21 3:30	5:13 4:22
											0:52 0:10	1:44 0:53	2:37 1:45	3:29 2:38	4:21 3:30
												0:52 0:10	1:44 0:53	2:37 1:45	3:29 2:38
													0:52 0:10	1:44 0:53	2:37 1:45
														0:52 0:10	1:44 0:53
															0:52 0:10

CHART 3 – REPETITIVE DIVE TIME

RED NUMBERS ARE RESIDUAL NITROGEN TIMES (RNT).
BLACK NUMBERS ARE ADJUSTED NO-STOP REPETITIVE DIVE TIMES.
ACTUAL DIVE TIME SHOULD NOT EXCEED THIS NUMBER.

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REPETITEVE DIVES SHALLOWER THAN 40 fsw (12.3 msw) MUST USE THE 40 fsw (12.3 msw) REPETITIVE SCHEDULE

PO_2	0.88	0.95	1.01	1.07	1.13	1.25	1.37	1.49	GROUP LETTER
msw	12.3	13.8	15.3	16.9	18.4	21.4	24.5	27.6	
fsw	40	45	50	55	60	70	80	90	
	21 574	18 353	18 353	15 217	13 150	12 113	10 64	9 51	A
	34 561	28 343	28 343	24 208	21 142	18 107	15 59	14 46	B
	48 547	39 332	39 332	33 199	29 134	25 100	20 54	19 41	C
	63 532	51 320	51 320	43 189	37 126	32 93	26 48	24 36	D
	79 516	63 308	63 308	53 179	45 118	40 85	32 42	29 31	E
	98 497	77 294	77 294	64 168	55 108	48 77	38 36	35 25	F
	118 477	92 279	92 279	75 157	64 99	56 69	44 30	40 20	G
	141 454	108 263	108 263	88 144	74 89	64 61	51 23	46 14	H
	167 428	126 245	126 245	101 131	85 78	73 52	58 16	52 8	I
	198 397	146 225	146 225	116 116	97 66	83 42	65 9	58 2	J
	237 358	168 203	168 203	132 100	109 54	93 32	72 2		K
	286 309	194 177	194 177	149 83	122 41	104 21			L
	354 241	224 147	224 147	169 63	136 27	115 10			M
	470 125	261 110	261 110	191 41	152 11				N
		308 63	308 63	216 16					O
									Z