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REVISION 7

U.S. Navy Diving Manua

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Diving Medicine
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Table 9-5. *Repetitive Groups Associated with Initial Ascent to Altitude.*

Altitude (feet)	Repetitive Group
1000	A
2000	A
3000	B
4000	C
5000	D
6000	E
7000	F
8000	G
9000	H
10000	I

From your new repetitive group and sea level equivalent depth, determine the residual nitrogen time associated with the dive. Add this time to the actual bottom time of the dive. If the diver has spent enough time at altitude to desaturate beyond repetitive group A in Table 9-8, no addition of residual nitrogen time to bottom time is needed. The diver is "clean."

Example: A diver ascends rapidly to 6000 feet in a helicopter and begins a dive to 100 fsw 90 minutes later. How much residual nitrogen time should be added to the dive?

From Table 9-5, the repetitive group upon arrival at 6000 feet is Group E. During 90 minutes at altitude, the diver will desaturate to Group D. From Table 9-4, the sea level equivalent depth for a 100 fsw dive is 130 fsw. From Table 9-8, the residual nitrogen time for a 130 fsw dive in Group D is 11 minutes. The diver should add 11 minutes to the bottom time.

Table 9-5 can also be used when a diver who is fully equilibrated at one altitude ascends to and dives at a higher altitude. Enter Table 9-5 with the difference between the two altitudes to determine the initial repetitive group.

Example: Divers equilibrated at a base camp altitude of 6000 feet fly by helicopter to the dive site at 10,000 feet. The difference between the altitudes is 4000 feet. From Table 9-5, the initial repetitive group to be used at 10,000 feet is Group C.

WARNING **Altitudes above 10,000 feet can impose serious stress on the body resulting in significant medical problems while the acclimatization process takes place. Ascents to these altitudes must be slow to allow acclimatization to occur and prophylactic drugs may be required to prevent the occurrence of altitude sickness. These exposures should always be planned in consultation with a Diving Medical Officer. Commands conducting diving operations above 10,000 feet may obtain the appropriate decompression procedures from NAVSEA 00C.**

Table 9-6. *Required Surface Interval Before Ascent to Altitude After Diving.*

Repetitive Group Designator	Increase in Altitude (feet)									
	1000	**2000**	**3000**	**4000**	**5000**	**6000**	**7000**	**8000**	**9000**	**10000**
A	0:00	0:00	0:00	0:00	0:00	0:00	0:00	**0:00**	0:00	0:00
B	0:00	0:00	0:00	0:00	0:00	0:00	0:00	**0:00**	0:00	1:42
C	0:00	0:00	0:00	0:00	0:00	0:00	0:00	**0:00**	1:48	6:23
D	0:00	0:00	0:00	0:00	0:00	0:00	0:00	**1:45**	5:24	9:59
E	0:00	0:00	0:00	0:00	0:00	0:00	1:37	**4:39**	8:18	12:54
F	0:00	0:00	0:00	0:00	0:00	1:32	4:04	**7:06**	10:45	15:20
G	0:00	0:00	0:00	0:00	1:19	3:38	6:10	**9:13**	12:52	17:27
H	0:00	0:00	0:00	1:06	3:10	5:29	8:02	**11:04**	14:43	19:18
I	0:00	0:00	0:56	2:45	4:50	7:09	9:41	**12:44**	16:22	20:58
J	0:00	0:41	2:25	4:15	6:19	8:39	11:11	**14:13**	17:52	22:27
K	0:30	2:03	3:47	5:37	7:41	10:00	12:33	**15:35**	19:14	23:49
L	1:45	3:18	5:02	6:52	8:56	11:15	13:48	**16:50**	20:29	25:04
M	2:54	4:28	6:12	8:01	10:06	12:25	14:57	**18:00**	21:38	26:14
N	3:59	5:32	7:16	9:06	11:10	13:29	16:02	**19:04**	22:43	27:18
O	4:59	6:33	8:17	10:06	12:11	14:30	17:02	**20:05**	23:43	28:19
Z	5:56	7:29	9:13	11:03	13:07	15:26	17:59	**21:01**	24:40	29:15
Exceptional Exposure	Wait 48 hours before ascent									

NOTE 1 When using Table 9-6, use the highest repetitive group designator obtained in the previous 24-hour period.

NOTE 2 Table 9-6 may only be used when the maximum altitude achieved is 10,000 feet or less. For ascents above 10,000 feet, consult NAVSEA 00C for guidance.

NOTE 3 The cabin pressure in commercial aircraft is maintained at a constant value regardless of the actual altitude of the flight. Though cabin pressure varies somewhat with aircraft type, the nominal value is 8,000 feet. For commercial flights, use a final altitude of 8,000 feet to compute the required surface interval before flying.

NOTE 4 No surface interval is required before taking a commercial flight if the dive site is at 8,000 feet or higher. In this case, flying results in an increase in atmospheric pressure rather than a decrease.

NOTE 5 For ascent to altitude following a non-saturation helium-oxygen dive, wait 12 hours if the dive was a no-decompression dive. Wait 24 hours if the dive was a decompression dive.

Table 9-7. *No-Decompression Limits and Repetitive Group Designators for No-Decompression Air Dives.*

Depth (fsw)	No-Stop Limit	Repetitive Group Designation															
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Z
10	Unlimited	57	101	158	245	426	*										
15	Unlimited	36	60	88	121	163	217	297	449	*							
20	Unlimited	26	43	61	82	106	133	165	205	256	330	461	*				
25	1102	20	33	47	62	78	97	117	140	166	198	236	285	354	469	992	1102
30	371	17	27	38	50	62	76	91	107	125	145	167	193	223	260	307	371
35	232	14	23	32	42	52	63	74	87	100	115	131	148	168	190	215	232
40	163	12	20	27	36	44	53	63	73	84	95	108	121	135	151	163	
45	125	11	17	24	31	39	46	55	63	72	82	92	102	114	125		
50	92	9	15	21	28	34	41	48	56	63	71	80	89	92			
55	74	8	14	19	25	31	37	43	50	56	63	71	74				
60	63	7	12	17	22	28	33	39	45	51	57	63					
70	48	6	10	14	19	23	28	32	37	42	47	48					
80	39	5	9	12	16	20	24	28	32	36	39						
90	33	4	7	11	14	17	21	24	28	31	33						
100	25	4	6	9	12	15	18	21	25								
110	20	3	6	8	11	14	16	19	20								
120	15	3	5	7	10	12	15										
130	12	2	4	6	9	11	12										
140	10	2	4	6	8	10											
150	8		3	5	7	8											
160	7		3	5	6	7											
170	6			4	6												
180	6			4	5	6											
190	5			3	5												

* Highest repetitive group that can be achieved at this depth regardless of bottom time.

Table 9-8. Residual Nitrogen Time Table for Repetitive Air Dives.

Locate the diver's repetitive group designation from his previous dive along the diagonal line above the table. Read horizontally to the interval in which the diver's surface interval lies.

Next, read vertically downward to the new repetitive group designation. Continue downward in this same column to the row that represents the depth of the repetitive dive. The time given at the intersection is residual nitrogen time, in minutes, to be applied to the repetitive dive.

* Dives following surface intervals longer than this are not repetitive dives. Use actual bottom times in the Air Decompression Tables to compute decompression for such dives.

Repetitive Group at Beginning of Surface Interval

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

Repetitive Group at the End of the Surface Interval

Dive Depth	Z	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A
10	**	**	**	**	**	**	**	**	**	**	**	427	246	159	101	58
15	**	**	**	**	**	**	**	**	450	298	218	164	122	89	61	37
20	**	**	**	**	**	462	331	257	206	166	134	106	83	62	44	27
25	†	†	470	354	286	237	198	167	141	118	98	79	63	48	34	21
30	372	308	261	224	194	168	146	126	108	92	77	63	51	39	28	18
35	245	216	191	169	149	132	116	101	88	75	64	53	43	33	24	15
40	188	169	152	136	122	109	97	85	74	64	55	45	37	29	21	13
45	154	140	127	115	104	93	83	73	64	56	48	40	32	25	18	12
50	131	120	109	99	90	81	73	65	57	49	42	35	29	23	17	11
55	114	105	96	88	80	72	65	58	51	44	38	32	26	20	15	10
60	101	93	86	79	72	65	58	52	46	40	35	29	24	19	14	9
70	83	77	71	65	59	54	49	44	39	34	29	25	20	16	12	8
80	70	65	60	55	51	46	42	38	33	29	25	22	18	14	10	7
90	61	57	52	48	44	41	37	33	29	26	22	19	16	12	9	6
100	54	50	47	43	40	36	33	30	26	23	20	17	14	11	8	5
110	48	45	42	39	36	33	30	27	24	21	18	16	13	10	8	5
120	44	41	38	35	32	30	27	24	22	19	17	14	12	9	7	5
130	40	37	35	32	30	27	25	22	20	18	15	13	11	9	6	4
140	37	34	32	30	27	25	23	21	19	16	14	12	10	8	6	4
150	34	32	30	28	26	23	21	19	17	15	13	11	9	8	6	4
160	32	30	28	26	24	22	20	18	16	14	13	11	9	7	5	4
170	30	28	26	24	22	21	19	17	15	14	12	10	8	7	5	3
180	28	26	25	23	21	19	18	16	14	13	11	10	8	6	5	3
190	26	25	23	22	20	18	17	15	14	12	11	9	8	6	5	3

Residual Nitrogen Times (Minutes)

** Residual Nitrogen Time cannot be determined using this table (see paragraph 9-9.1 subparagraph 8 for instructions).

† Read vertically downward to the 30 fsw repetitive dive depth. Use the corresponding residual nitrogen times to compute the equivalent single dive time. Decompress using the 30 fsw air decompression table.

Table 9-9. *Air Decompression Table.*

(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	Gas Mix	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first air and first O_2 stop 100	90	80	70	60	50	40	30	20	Total Ascent Time (M:S)	Chamber O_2 Periods	Repet Group
30 FSW														
371	1:00	AIR									0	1:00	0	Z
		AIR/O_2									**0**	1:00		
380	0:20	AIR									5	6:00	0.5	Z
		AIR/O_2									**1**	2:00		
In-Water Air/O_2 Decompression or $SurDO_2$ Recommended ----------														
420	0:20	AIR									22	23:00	0.5	Z
		AIR/O_2									**5**	6:00		
480	0:20	AIR									42	43:00	0.5	
		AIR/O_2									**9**	10:00		
540	0:20	AIR									71	72:00	1	
		AIR/O_2									**14**	15:00		
Exceptional Exposure: In-Water Air Decompression ---------- In-Water Air/O_2 Decompression or $SurDO_2$ Required ----------														
600	0:20	AIR									92	93:00	1	
		AIR/O_2									**19**	20:00		
660	0:20	AIR									120	121:00	1	
		AIR/O_2									**22**	23:00		
720	0:20	AIR									158	159:00	1	
		AIR/O_2									**27**	28:00		
35 FSW														
232	1:10	AIR									0	1:10	0	Z
		AIR/O_2									**0**	1:10		
240	0:30	AIR									4	5:10	0.5	Z
		AIR/O_2									**2**	3:10		
In-Water Air/O_2 Decompression or $SurDO_2$ Recommended ----------														
270	0:30	AIR									28	29:10	0.5	Z
		AIR/O_2									**7**	8:10		
300	0:30	AIR									53	54:10	0.5	Z
		AIR/O_2									**13**	14:10		
330	0:30	AIR									71	72:10	1	Z
		AIR/O_2									**18**	19:10		
360	0:30	AIR									88	89:10	1	
		AIR/O_2									**22**	23:10		
Exceptional Exposure: In-Water Air Decompression ---------- In-Water Air/O_2 Decompression or $SurDO_2$ Required ----------														
420	0:30	AIR									134	135:10	1.5	
		AIR/O_2									**29**	30:10		
480	0:30	AIR									173	174:10	1.5	
		AIR/O_2									**38**	44:10		
540	0:30	AIR									228	229:10	2	
		AIR/O_2									**45**	51:10		
600	0:30	AIR									277	278:10	2	
		AIR/O_2									**53**	59:10		
660	0:30	AIR									314	315:10	2.5	
		AIR/O_2									**63**	69:10		
720	0:30	AIR									342	343:10	3	
		AIR/O_2									**71**	82:10		

Table 9-9. *Air Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	Gas Mix	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first air and first O_2 stop 100	90	80	70	60	50	40	30	20	Total Ascent Time (M:S)	Chamber O_2 Periods	Repet Group
40 FSW														
163	1:20	AIR									0	1:20	0	O
		AIR/O_2									**0**	1:20		
170	0:40	AIR									6	7:20	0.5	O
		AIR/O_2									**2**	3:20		
180	0:40	AIR									14	15:20	0.5	Z
		AIR/O_2									**5**	6:20		
In-Water Air/O_2 Decompression or SurDO_2 Recommended ----------														
190	0:40	AIR									21	22:20	0.5	Z
		AIR/O_2									**7**	8:20		
200	0:40	AIR									27	28:20	0.5	Z
		AIR/O_2									**9**	10:20		
210	0:40	AIR									39	40:20	0.5	Z
		AIR/O_2									**11**	12:20		
220	0:40	AIR									52	53:20	0.5	Z
		AIR/O_2									**12**	13:20		
230	0:40	AIR									64	65:20	1	Z
		AIR/O_2									**16**	17:20		
240	0:40	AIR									75	76:20	1	Z
		AIR/O_2									**19**	20:20		
Exceptional Exposure: In-Water Air Decompression ---------- In-Water Air/O_2 Decompression or SurDO_2 Required ----------														
270	0:40	AIR									101	102:20	1	Z
		AIR/O_2									**26**	27:20		
300	0:40	AIR									128	129:20	1.5	
		AIR/O_2									**33**	34:20		
330	0:40	AIR									160	161:20	1.5	
		AIR/O_2									**38**	44:20		
360	0:40	AIR									184	185:20	2	
		AIR/O_2									**44**	50:20		
420	0:40	AIR									248	249:20	2.5	
		AIR/O_2									**56**	62:20		
480	0:40	AIR									321	322:20	2.5	
		AIR/O_2									**68**	79:20		
Exceptional Exposure: In-Water Air/0_2 Decompression ---------- SurDO_2 Required----------														
540	0:40	AIR									372	373:20	3	
		AIR/O_2									**80**	91:20		
600	0:40	AIR									410	411:20	3.5	
		AIR/O_2									**93**	104:20		
660	0:40	AIR									439	440:20	4	
		AIR/O_2									**103**	119:20		
Exceptional Exposure: SurDO_2 ----------														
720	0:40	AIR									461	462:20	4.5	
		AIR/O_2									**112**	128:20		

Table 9-9. *Air Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	Gas Mix	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first air and first O_2 stop 100	90	80	70	60	50	40	30	20	Total Ascent Time (M:S)	Chamber O_2 Periods	Repet Group
45 FSW														
125	1:30	AIR									0	1:30	0	N
		AIR/O_2									**0**	1:30		
130	0:50	AIR									2	3:30	0.5	O
		AIR/O_2									**1**	2:30		
140	0:50	AIR									14	15:30	0.5	O
		AIR/O_2									**5**	6:30		
In-Water Air/O_2 Decompression or SurDO_2 Recommended ----------														
150	0:50	AIR									25	26:30	0.5	Z
		AIR/O_2									**8**	9:30		
160	0:50	AIR									34	35:30	0.5	Z
		AIR/O_2									**11**	12:30		
170	0:50	AIR									41	42:30	1	Z
		AIR/O_2									**14**	15:30		
180	0:50	AIR									59	60:30	1	Z
		AIR/O_2									**17**	18:30		
190	0:50	AIR									75	76:30	1	Z
		AIR/O_2									**19**	20:30		
Exceptional Exposure: In-Water Air Decompression ---------- In-Water Air/O_2 Decompression or SurDO_2 Required ----------														
200	0:50	AIR									89	90:30	1	Z
		AIR/O_2									**23**	24:30		
210	0:50	AIR									101	102:30	1	Z
		AIR/O_2									**27**	28:30		
220	0:50	AIR									112	113:30	1.5	Z
		AIR/O_2									**30**	31:30		
230	0:50	AIR									121	122:30	1.5	Z
		AIR/O_2									**33**	34:30		
240	0:50	AIR									130	131:30	1.5	Z
		AIR/O_2									**37**	43:30		
270	0:50	AIR									173	174:30	2	
		AIR/O_2									**45**	51:30		
300	0:50	AIR									206	207:30	2	
		AIR/O_2									**51**	57:30		
330	0:50	AIR									243	244:30	2.5	
		AIR/O_2									**61**	67:30		
360	0:50	AIR									288	289:30	3	
		AIR/O_2									**69**	80:30		
Exceptional Exposure: In-Water Air/0_2 Decompression ---------- SurDO_2 Required----------														
420	0:50	AIR									373	374:30	3.5	
		AIR/O_2									**84**	95:30		
480	0:50	AIR									431	432:30	4	
		AIR/O_2									**101**	117:30		
Exceptional Exposure: SurDO_2 ----------														
540	0:50	AIR									473	474:30	4.5	
		AIR/O_2									**117**	133:30		

Table 9-9. *Air Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	Gas Mix	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first air and first O_2 stop 100	90	80	70	60	50	40	30	20	Total Ascent Time (M:S)	Chamber O_2 Periods	Repet Group
50 FSW														
92	1:40	AIR									0	1:40	0	M
		AIR/O_2									**0**	1:40		
95	1:00	AIR									2	3:40	0.5	M
		AIR/O_2									**1**	2:40		
100	1:00	AIR									4	5:40	0.5	N
		AIR/O_2									**2**	3:40		
110	1:00	AIR									8	9:40	0.5	O
		AIR/O_2									**4**	5:40		
In-Water Air/O_2 Decompression or $SurDO_2$ Recommended ----------														
120	1:00	AIR									21	22:40	0.5	O
		AIR/O_2									**7**	8:40		
130	1:00	AIR									34	35:40	0.5	Z
		AIR/O_2									**12**	13:40		
140	1:00	AIR									45	46:40	1	Z
		AIR/O_2									**16**	17:40		
150	1:00	AIR									56	57:40	1	Z
		AIR/O_2									**19**	20:40		
160	1:00	AIR									78	79:40	1	Z
		AIR/O_2									**23**	24:40		
Exceptional Exposure: In-Water Air Decompression ---------- In-Water Air/O_2 Decompression or $SurDO_2$ Required ----------														
170	1:00	AIR									96	97:40	1	Z
		AIR/O_2									**26**	27:40		
180	1:00	AIR									111	112:40	1.5	Z
		AIR/O_2									**30**	31:40		
190	1:00	AIR									125	126:40	1.5	Z
		AIR/O_2									**35**	36:40		
200	1:00	AIR									136	137:40	1.5	Z
		AIR/O_2									**39**	45:40		
210	1:00	AIR									147	148:40	2	
		AIR/O_2									**43**	49:40		
220	1:00	AIR									166	167:40	2	
		AIR/O_2									**47**	53:40		
230	1:00	AIR									183	184:40	2	
		AIR/O_2									**50**	56:40		
240	1:00	AIR									198	199:40	2	
		AIR/O_2									**53**	59:40		
270	1:00	AIR									236	237:40	2.5	
		AIR/O_2									**62**	68:40		
300	1:00	AIR									285	286:40	3	
		AIR/O_2									**74**	85:40		
Exceptional Exposure: In-Water Air/O_2 Decompression ---------- $SurDO_2$ Required----------														
330	1:00	AIR									345	346:40	3.5	
		AIR/O_2									**83**	94:40		
360	1:00	AIR									393	394:40	3.5	
		AIR/O_2									**92**	103:40		
Exceptional Exposure: $SurDO_2$ ----------														
420	1:00	AIR									464	465:40	4.5	
		AIR/O_2									**113**	129:40		

Table 9-9. *Air Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	Gas Mix	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first air and first O_2 stop 100	90	80	70	60	50	40	30	20	Total Ascent Time (M:S)	Chamber O_2 Periods	Repet Group
55 FSW														
74	1:50	AIR									0	1:50	0	L
		AIR/O_2									**0**	1:50		
75	1:10	AIR									1	2:50	0.5	L
		AIR/O_2									**1**	2:50		
80	1:10	AIR									4	5:50	0.5	M
		AIR/O_2									**2**	3:50		
90	1:10	AIR									10	11:50	0.5	N
		AIR/O_2									**5**	6:50		
In-Water Air/O_2 Decompression or SurDO$_2$ Recommended ----------														
100	1:10	AIR									17	18:50	0.5	O
		AIR/O_2									**8**	9:50		
110	1:10	AIR									34	35:50	0.5	O
		AIR/O_2									**12**	13:50		
120	1:10	AIR									48	49:50	1	Z
		AIR/O_2									**17**	18:50		
130	1:10	AIR									59	60:50	1	Z
		AIR/O_2									**22**	23:50		
140	1:10	AIR									84	85:50	1	Z
		AIR/O_2									**26**	27:50		
Exceptional Exposure: In-Water Air Decompression ---------- In-Water Air/O_2 Decompression or SurDO$_2$ Required ----------														
150	1:10	AIR									105	106:50	1.5	Z
		AIR/O_2									**30**	31:50		
160	1:10	AIR									123	124:50	1.5	Z
		AIR/O_2									**34**	35:50		
170	1:10	AIR									138	139:50	1.5	Z
		AIR/O_2									**40**	46:50		
180	1:10	AIR									151	152:50	2	Z
		AIR/O_2									**45**	51:50		
190	1:10	AIR									169	170:50	2	
		AIR/O_2									**50**	56:50		
200	1:10	AIR									190	191:50	2	
		AIR/O_2									**54**	60:50		
210	1:10	AIR									208	209:50	2.5	
		AIR/O_2									**58**	64:50		
220	1:10	AIR									224	225:50	2.5	
		AIR/O_2									**62**	68:50		
230	1:10	AIR									239	240:50	2.5	
		AIR/O_2									**66**	77:50		
240	1:10	AIR									254	255:50	3	
		AIR/O_2									**69**	80:50		
Exceptional Exposure: In-Water Air/0$_2$ Decompression ---------- SurDO$_2$ Required----------														
270	1:10	AIR									313	314:50	3.5	
		AIR/O_2									**83**	94:50		
300	1:10	AIR									380	381:50	3.5	
		AIR/O_2									**94**	105:50		
330	1:10	AIR									432	433:50	4	
		AIR/O_2									**106**	122:50		
Exceptional Exposure: SurDO$_2$ ----------														
360	1:10	AIR									474	475:50	4.5	
		AIR/O_2									**118**	134:50		

Table 9-9. *Air Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	Gas Mix	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first air and first O_2 stop 100	90	80	70	60	50	40	30	20	Total Ascent Time (M:S)	Chamber O_2 Periods	Repet Group
60 FSW														
63	2:00	AIR									0	2:00	0	K
		AIR/O_2									**0**	2:00		
65	1:20	AIR									2	4:00	0.5	L
		AIR/O_2									**1**	3:00		
70	1:20	AIR									7	9:00	0.5	L
		AIR/O_2									**4**	6:00		
80	1:20	AIR									14	16:00	0.5	N
		AIR/O_2									**7**	9:00		
In-Water Air/O_2 Decompression or $SurDO_2$ Recommended ----------														
90	1:20	AIR									23	25:00	0.5	O
		AIR/O_2									**10**	12:00		
100	1:20	AIR									42	44:00	1	Z
		AIR/O_2									**15**	17:00		
110	1:20	AIR									57	59:00	1	Z
		AIR/O_2									**21**	23:00		
120	1:20	AIR									75	77:00	1	Z
		AIR/O_2									**26**	28:00		
Exceptional Exposure: In-Water Air Decompression ---------- In-Water Air/O_2 Decompression or $SurDO_2$ Required ----------														
130	1:20	AIR									102	104:00	1.5	Z
		AIR/O_2									**31**	33:00		
140	1:20	AIR									124	126:00	1.5	Z
		AIR/O_2									**35**	37:00		
150	1:20	AIR									143	145:00	2	Z
		AIR/O_2									**41**	48:00		
160	1:20	AIR									158	160:00	2	Z
		AIR/O_2									**48**	55:00		
170	1:20	AIR									178	180:00	2	
		AIR/O_2									**53**	60:00		
180	1:20	AIR									201	203:00	2.5	
		AIR/O_2									**59**	66:00		
190	1:20	AIR									222	224:00	2.5	
		AIR/O_2									**64**	71:00		
200	1:20	AIR									240	242:00	2.5	
		AIR/O_2									**68**	80:00		
210	1:20	AIR									256	258:00	3	
		AIR/O_2									**73**	85:00		
220	1:20	AIR									278	280:00	3	
		AIR/O_2									**77**	89:00		
Exceptional Exposure: In-Water $Air/0_2$ Decompression ---------- $SurDO_2$ Required----------														
230	1:20	AIR									300	302:00	3.5	
		AIR/O_2									**82**	94:00		
240	1:20	AIR									321	323:00	3.5	
		AIR/O_2									**88**	100:00		
270	1:20	AIR									398	400:00	4	
		AIR/O_2									**102**	119:00		
Exceptional Exposure: $SurDO_2$ ----------														
300	1:20	AIR									456	458:00	4.5	
		AIR/O_2									**115**	132:00		

Table 9-9. *Air Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	Gas Mix	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first air and first O_2 stop 100	90	80	70	60	50	40	30	20	Total Ascent Time (M:S)	Chamber O_2 Periods	Repet Group
70 FSW														
48	2:20	AIR									0	2:20	0	K
		AIR/O_2									**0**	2:20		
50	1:40	AIR									2	4:20	0.5	K
		AIR/O_2									**1**	3:20		
55	1:40	AIR									9	11:20	0.5	L
		AIR/O_2									**5**	7:20		
60	1:40	AIR									14	16:20	0.5	M
		AIR/O_2									**8**	10:20		
In-Water Air/O_2 Decompression or SurDO_2 Recommended ----------														
70	1:40	AIR									24	26:20	0.5	N
		AIR/O_2									**13**	15:20		
80	1:40	AIR									44	46:20	1	O
		AIR/O_2									**17**	19:20		
90	1:40	AIR									64	66:20	1	Z
		AIR/O_2									**24**	26:20		
Exceptional Exposure: In-Water Air Decompression ---------- In-Water Air/O_2 Decompression or SurDO_2 Required ----------														
100	1:40	AIR									88	90:20	1.5	Z
		AIR/O_2									**31**	33:20		
110	1:40	AIR									120	122:20	1.5	Z
		AIR/O_2									**38**	45:20		
120	1:40	AIR									145	147:20	2	Z
		AIR/O_2									**44**	51:20		
130	1:40	AIR									167	169:20	2	Z
		AIR/O_2									**51**	58:20		
140	1:40	AIR									189	191:20	2.5	
		AIR/O_2									**59**	66:20		
150	1:40	AIR									219	221:20	2.5	
		AIR/O_2									**66**	78:20		
160	1:20	AIR								1	244	247:00	3	
		AIR/O_2								**1**	**72**	85:00		
Exceptional Exposure: In-Water Air/0_2 Decompression ---------- SurDO_2 Required----------														
170	1:20	AIR								2	265	269:00	3	
		AIR/O_2								**1**	**78**	91:00		
180	1:20	AIR								4	289	295:00	3.5	
		AIR/O_2								**2**	**83**	97:00		
190	1:20	AIR								5	316	323:00	3.5	
		AIR/O_2								**3**	**88**	103:00		
200	1:20	AIR								9	345	356:00	4	
		AIR/O_2								**5**	**93**	115:00		
210	1:20	AIR								13	378	393:00	4	
		AIR/O_2								**7**	**98**	122:00		
Exceptional Exposure: SurDO_2 ----------														
240	1:20	AIR								25	454	481:00	5	
		AIR/O_2								**13**	**110**	140:00		

Table 9-9. *Air Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	Gas Mix	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first air and first O_2 stop 100	90	80	70	60	50	40	30	20	Total Ascent Time (M:S)	Chamber O_2 Periods	Repet Group
80 FSW														
39	2:40	AIR									0	2:40	0	J
		AIR/O_2									**0**	2:40		
40	2:00	AIR									1	3:40	0.5	J
		AIR/O_2									**1**	3:40		
45	2:00	AIR									10	12:40	0.5	K
		AIR/O_2									**5**	7:40		
In-Water Air/O_2 Decompression or SurDO$_2$ Recommended ----------														
50	2:00	AIR									17	19:40	0.5	M
		AIR/O_2									**9**	11:40		
55	2:00	AIR									24	26:40	0.5	M
		AIR/O_2									**13**	15:40		
60	2:00	AIR									30	32:40	1	N
		AIR/O_2									**16**	18:40		
70	2:00	AIR									54	56:40	1	O
		AIR/O_2									**22**	24:40		
80	2:00	AIR									77	79:40	1.5	Z
		AIR/O_2									**30**	32:40		
Exceptional Exposure: In-Water Air Decompression ---------- In-Water Air/O_2 Decompression or SurDO$_2$ Required ----------														
90	2:00	AIR									114	116:40	1.5	Z
		AIR/O_2									**39**	46:40		
100	1:40	AIR								1	147	150:20	2	Z
		AIR/O_2								**1**	**46**	54:20		
110	1:40	AIR								6	171	179:20	2	Z
		AIR/O_2								**3**	**51**	61:20		
120	1:40	AIR								10	200	212:20	2.5	
		AIR/O_2								**5**	**59**	71:20		
130	1:40	AIR								14	232	248:20	3	
		AIR/O_2								**7**	**67**	86:20		
Exceptional Exposure: In-Water Air/0_2 Decompression ---------- SurDO$_2$ Required----------														
140	1:40	AIR								17	258	277:20	3.5	
		AIR/O_2								**9**	**73**	94:20		
150	1:40	AIR								19	285	306:20	3.5	
		AIR/O_2								**10**	**80**	102:20		
160	1:40	AIR								21	318	341:20	4	
		AIR/O_2								**11**	**86**	114:20		
170	1:40	AIR								27	354	383:20	4	
		AIR/O_2								**14**	**90**	121:20		
Exceptional Exposure: SurDO$_2$ ----------														
180	1:40	AIR								33	391	426:20	4.5	
		AIR/O_2								**17**	**96**	130:20		
210	1:40	AIR								51	473	526:20	5	
		AIR/O_2								**26**	**110**	158:20		

Table 9-9. *Air Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	Gas Mix	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first air and first O_2 stop 100	90	80	70	60	50	40	30	20	Total Ascent Time (M:S)	Chamber O_2 Periods	Repet Group
90 FSW														
33	3:00	AIR									0	3:00	0	J
		AIR/O_2									**0**	3:00		
35	2:20	AIR									4	7:00	0.5	J
		AIR/O_2									**2**	5:00		
40	2:20	AIR									14	17:00	0.5	L
		AIR/O_2									**7**	10:00		
In-Water Air/O_2 Decompression or SurDO$_2$ Recommended ----------														
45	2:20	AIR									23	26:00	0.5	M
		AIR/O_2									**12**	15:00		
50	2:20	AIR									31	34:00	1	N
		AIR/O_2									**17**	20:00		
55	2:20	AIR									39	42:00	1	O
		AIR/O_2									**21**	24:00		
60	2:20	AIR									56	59:00	1	O
		AIR/O_2									**24**	27:00		
70	2:20	AIR									83	86:00	1.5	Z
		AIR/O_2									**32**	35:00		
Exceptional Exposure: In-Water Air Decompression ---------- In-Water Air/O_2 Decompression or SurDO$_2$ Required ----------														
80	2:00	AIR								5	125	132:40	2	Z
		AIR/O_2								**3**	**40**	50:40		
90	2:00	AIR								13	158	173:40	2	Z
		AIR/O_2								**7**	**46**	60:40		
100	2:00	AIR								19	185	206:40	2.5	
		AIR/O_2								**10**	**53**	70:40		
110	2:00	AIR								25	224	251:40	3	
		AIR/O_2								**13**	**61**	86:40		
Exceptional Exposure: In-Water Air/0_2 Decompression ---------- SurDO$_2$ Required----------														
120	1:40	AIR							2	28	256	288:20	3.5	
		AIR/O_2							2	**14**	**70**	98:40		
130	1:40	AIR							5	28	291	326:20	3.5	
		AIR/O_2							5	**14**	**79**	110:40		
140	1:40	AIR							8	28	330	368:20	4	
		AIR/O_2							8	**14**	**87**	126:40		
Exceptional Exposure: SurDO$_2$ ----------														
150	1:40	AIR							11	34	378	425:20	4.5	
		AIR/O_2							11	**17**	**94**	139:40		
160	1:40	AIR							13	40	418	473:20	4.5	
		AIR/O_2							13	**20**	**101**	151:40		
170	1:40	AIR							15	45	451	513:20	5	
		AIR/O_2							15	**23**	**106**	166:40		
180	1:40	AIR							16	51	479	548:20	5.5	
		AIR/O_2							16	**26**	**112**	176:40		
240	1:40	AIR							42	68	592	704:20	7.5	
		AIR/O_2							42	**34**	**159**	267:40		

Table 9-9. *Air Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	Gas Mix	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first air and first O_2 stop 100	90	80	70	60	50	40	30	20	Total Ascent Time (M:S)	Chamber O_2 Periods	Repet Group
100 FSW														
25	3:20	AIR									0	3:20	0	H
		AIR/O_2									**0**	3:20		
30	2:40	AIR									3	6:20	0.5	J
		AIR/O_2									**2**	5:20		
35	2:40	AIR									15	18:20	0.5	L
		AIR/O_2									**8**	11:20		
In-Water Air/O_2 Decompression or SurdO_2 Recommended ----------														
40	2:40	AIR									26	29:20	1	M
		AIR/O_2									**14**	17:20		
45	2:40	AIR									36	39:20	1	N
		AIR/O_2									**19**	22:20		
50	2:40	AIR									47	50:20	1	O
		AIR/O_2									**24**	27:20		
55	2:40	AIR									65	68:20	1.5	Z
		AIR/O_2									**28**	31:20		
60	2:40	AIR									81	84:20	1.5	Z
		AIR/O_2									**33**	36:20		
Exceptional Exposure: In-Water Air Decompression ---------- In-Water Air/O_2 Decompression or SurdO_2 Required ----------														
70	2:20	AIR								11	124	138:00	2	Z
		AIR/O_2								**6**	**39**	53:00		
80	2:20	AIR								21	160	184:00	2.5	Z
		AIR/O_2								**11**	**45**	64:00		
90	2:00	AIR							2	28	196	228:40	2.5	
		AIR/O_2							2	**14**	**53**	82:00		
Exceptional Exposure: In-Water Air/0_2 Decompression ---------- SurdO_2 Required----------														
100	2:00	AIR							9	28	241	280:40	3	
		AIR/O_2							9	**14**	**66**	102:00		
110	2:00	AIR							14	28	278	322:40	3.5	
		AIR/O_2							14	**14**	**76**	117:00		
120	2:00	AIR							19	28	324	373:40	4	
		AIR/O_2							19	**14**	**85**	136:00		
Exceptional Exposure: SurdO_2 ----------														
150	1:40	AIR						3	26	46	461	538:20	5	
		AIR/O_2						3	26	**23**	**109**	183:40		

Table 9-9. *Air Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	Gas Mix	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first air and first O_2 stop 100	90	80	70	60	50	40	30	20	Total Ascent Time (M:S)	Chamber O_2 Periods	Repet Group
110 FSW														
20	3:40	AIR									0	3:40	0	H
		AIR/O_2									**0**	3:40		
25	3:00	AIR									5	8:40	0.5	I
		AIR/O_2									**3**	6:40		
30	3:00	AIR									14	17:40	0.5	K
		AIR/O_2									**7**	10:40		
In-Water Air/O_2 Decompression or SurDO_2 Recommended ----------														
35	3:00	AIR									27	30:40	1	M
		AIR/O_2									**14**	17:40		
40	3:00	AIR									39	42:40	1	N
		AIR/O_2									**20**	23:40		
45	3:00	AIR									50	53:40	1	O
		AIR/O_2									**26**	29:40		
50	3:00	AIR									71	74:40	1.5	Z
		AIR/O_2									**32**	35:40		
Exceptional Exposure: In-Water Air Decompression ---------- In-Water Air/O_2 Decompression or SurDO_2 Required ----------														
55	2:40	AIR								5	85	93:20	1.5	Z
		AIR/O_2								**3**	**33**	44:20		
60	2:40	AIR								13	111	127:20	2	Z
		AIR/O_2								**7**	**36**	51:20		
70	2:40	AIR								26	155	184:20	2.5	Z
		AIR/O_2								**14**	**42**	64:20		
Exceptional Exposure: In-Water Air/0_2 Decompression ---------- SurDO_2 Required----------														
80	2:20	AIR							9	28	200	240:00	2.5	
		AIR/O_2							9	**14**	**54**	90:20		
90	2:20	AIR							18	28	249	298:00	3.5	
		AIR/O_2							18	**14**	**68**	113:20		
100	2:20	AIR							25	28	295	351:00	3.5	
		AIR/O_2							25	**14**	**79**	131:20		
110	2:00	AIR						5	26	28	353	414:40	4	
		AIR/O_2						5	26	**14**	**91**	154:00		
Exceptional Exposure: SurDO_2 ----------														
120	2:00	AIR						10	26	35	413	486:40	4.5	
		AIR/O_2						10	26	**18**	**101**	173:00		
180	1:40	AIR					3	23	47	68	593	736:20	7.5	
		AIR/O_2					3	23	47	**34**	**159**	298:40		

Table 9-9. *Air Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	Gas Mix	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first air and first O_2 stop 100	90	80	70	60	50	40	30	20	Total Ascent Time (M:S)	Chamber O_2 Periods	Repet Group
120 FSW														
15	4:00	AIR									0	4:00	0	F
		AIR/O_2									**0**	4:00		
20	3:20	AIR									4	8:00	0.5	H
		AIR/O_2									**2**	6:00		
25	3:20	AIR									9	13:00	0.5	J
		AIR/O_2									**5**	9:00		
In-Water Air/O_2 Decompression or SurDO_2 Recommended ----------														
30	3:20	AIR									24	28:00	0.5	L
		AIR/O_2									**13**	17:00		
35	3:20	AIR									38	42:00	1	N
		AIR/O_2									**20**	24:00		
40	3:00	AIR								2	49	54:40	1	O
		AIR/O_2								**1**	**26**	30:40		
45	3:00	AIR								3	71	77:40	1.5	Z
		AIR/O_2								**2**	**31**	36:40		
Exceptional Exposure: In-Water Air Decompression ---------- In-Water Air/O_2 Decompression or SurDO_2 Required ----------														
50	3:00	AIR								10	85	98:40	1.5	Z
		AIR/O_2								**5**	**33**	46:40		
55	3:00	AIR								19	116	138:40	2	Z
		AIR/O_2								**10**	**35**	53:40		
60	3:00	AIR								27	142	172:40	2	Z
		AIR/O_2								**14**	**39**	61:40		
70	2:40	AIR							13	28	190	234:20	2.5	
		AIR/O_2							13	**14**	**51**	86:40		
Exceptional Exposure: In-Water Air/0_2 Decompression ---------- SurDO_2 Required----------														
80	2:40	AIR							24	28	246	301:20	3	
		AIR/O_2							24	**14**	**67**	118:40		
90	2:20	AIR						7	26	28	303	367:00	3.5	
		AIR/O_2						7	26	**14**	**80**	140:20		
100	2:20	AIR						15	25	28	372	443:00	4	
		AIR/O_2						15	25	**14**	**95**	167:20		
Exceptional Exposure: SurDO_2 ----------														
110	2:20	AIR						21	25	38	433	520:00	5	
		AIR/O_2						21	25	**19**	**105**	188:20		
120	2:00	AIR					3	23	25	47	480	580:40	5.5	
		AIR/O_2					3	23	25	**24**	**113**	211:00		

Table 9-9. *Air Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	Gas Mix	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first air and first O_2 stop 100	90	80	70	60	50	40	30	20	Total Ascent Time (M:S)	Chamber O_2 Periods	Repet Group
130 FSW														
12	4:20	AIR									0	4:20	0	F
		AIR/O_2									**0**	4:20		
15	3:40	AIR									3	7:20	0.5	G
		AIR/O_2									**2**	6:20		
20	3:40	AIR									8	12:20	0.5	I
		AIR/O_2									**5**	9:20		
In-Water Air/O_2 Decompression or SurDO$_2$ Recommended ----------														
25	3:40	AIR									17	21:20	0.5	K
		AIR/O_2									**9**	13:20		
30	3:20	AIR								2	32	38:00	1	M
		AIR/O_2								1	**17**	22:00		
35	3:20	AIR								5	44	53:00	1	O
		AIR/O_2								**3**	**23**	30:00		
40	3:20	AIR								6	66	76:00	1.5	Z
		AIR/O_2								**3**	**30**	37:00		
Exceptional Exposure: In-Water Air Decompression ---------- In-Water Air/O_2 Decompression or SurDO$_2$ Required ----------														
45	3:00	AIR							1	11	84	99:40	1.5	Z
		AIR/O_2							1	**6**	**33**	49:00		
50	3:00	AIR							2	20	118	143:40	2	Z
		AIR/O_2							2	**10**	**36**	57:00		
55	3:00	AIR							4	28	146	181:40	2	Z
		AIR/O_2							4	**14**	**40**	67:00		
60	3:00	AIR							12	28	170	213:40	2.5	Z
		AIR/O_2							12	**14**	**46**	81:00		
Exceptional Exposure: In-Water Air/0_2 Decompression ---------- SurDO$_2$ Required----------														
70	2:40	AIR						1	26	28	235	293:20	3	
		AIR/O_2						1	26	**14**	**63**	117:40		
80	2:40	AIR						12	26	28	297	366:20	3.5	
		AIR/O_2						12	26	**14**	**79**	144:40		
90	2:40	AIR						22	25	28	375	453:20	4	
		AIR/O_2						22	25	**14**	**95**	174:40		
Exceptional Exposure: SurDO$_2$ ----------														
100	2:20	AIR					6	23	26	38	444	540:00	5	
		AIR/O_2					6	23	26	**20**	**106**	204:20		
120	2:20	AIR					17	24	27	57	534	662:00	6	
		AIR/O_2					17	24	27	**29**	**130**	255:20		
180	2:00	AIR				13	21	45	57	94	658	890:40	9	
		AIR/O_2				13	21	45	57	**46**	**198**	418:00		

Table 9-9. *Air Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	Gas Mix	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first air and first O_2 stop 100	90	80	70	60	50	40	30	20	Total Ascent Time (M:S)	Chamber O_2 Periods	Repet Group
140 FSW														
10	4:40	AIR									0	4:40	0	E
		AIR/O_2									**0**	4:40		
15	4:00	AIR									5	9:40	0.5	H
		AIR/O_2									**3**	7:40		
20	4:00	AIR									13	17:40	0.5	J
		AIR/O_2									**7**	11:40		
In-Water Air/O_2 Decompression or $SurDO_2$ Recommended ----------														
25	3:40	AIR								3	24	31:20	1	L
		AIR/O_2								**2**	**12**	18:20		
30	3:40	AIR								7	37	48:20	1	N
		AIR/O_2								**4**	**19**	27:20		
35	3:20	AIR							2	7	58	71:00	1.5	O
		AIR/O_2							2	**4**	**26**	36:20		
Exceptional Exposure: In-Water Air Decompression ---------- In-Water Air/O_2 Decompression or $SurDO_2$ Required ----------														
40	3:20	AIR							4	7	82	97:00	1.5	Z
		AIR/O_2							4	**4**	**33**	50:20		
45	3:20	AIR							5	18	114	141:00	2	Z
		AIR/O_2							5	**9**	**36**	59:20		
50	3:20	AIR							8	27	145	184:00	2	Z
		AIR/O_2							8	**14**	**39**	70:20		
55	3:00	AIR						1	15	29	171	219:40	2.5	Z
		AIR/O_2						1	15	**15**	**45**	85:00		
Exceptional Exposure: In-Water $Air/0_2$ Decompression ---------- $SurDO_2$ Required----------														
60	3:00	AIR						2	23	28	209	265:40	3	
		AIR/O_2						2	23	**14**	**56**	109:00		
70	3:00	AIR						14	25	29	276	347:40	3.5	
		AIR/O_2						14	25	**15**	**74**	142:00		
80	2:40	AIR					2	24	25	29	362	445:20	4	
		AIR/O_2					2	24	25	**15**	**91**	175:40		
Exceptional Exposure: $SurDO_2$ ----------														
90	2:40	AIR					12	23	26	38	443	545:20	5	
		AIR/O_2					12	23	26	**19**	**107**	210:40		

Table 9-9. *Air Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	Gas Mix	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first air and first O_2 stop 100	90	80	70	60	50	40	30	20	Total Ascent Time (M:S)	Chamber O_2 Periods	Repet Group
150 FSW														
8	5:00	AIR									0	5:00	0	E
		AIR/O_2									**0**	5:00		
10	4:20	AIR									2	7:00	0.5	F
		AIR/O_2									**1**	6:00		
15	4:20	AIR									8	13:00	0.5	H
		AIR/O_2									**5**	10:00		
In-Water Air/O_2 Decompression or $SurDO_2$ Recommended ----------														
20	4:00	AIR								2	15	21:40	0.5	K
		AIR/O_2								1	**8**	13:40		
25	4:00	AIR								7	29	40:40	1	M
		AIR/O_2								**4**	**14**	22:40		
30	3:40	AIR							4	7	45	60:20	1.5	O
		AIR/O_2							4	**4**	**22**	34:40		
Exceptional Exposure: In-Water Air Decompression ---------- In-Water Air/O_2 Decompression or $SurDO_2$ Required ----------														
35	3:40	AIR							6	7	74	91:20	1.5	Z
		AIR/O_2							6	**4**	**30**	44:40		
40	3:20	AIR						2	6	14	106	132:00	2	Z
		AIR/O_2						2	6	**7**	**35**	59:20		
45	3:20	AIR						3	8	24	142	181:00	2	Z
		AIR/O_2						3	8	**12**	**40**	72:20		
50	3:20	AIR						4	14	28	170	220:00	2.5	Z
		AIR/O_2						4	14	**14**	**46**	87:20		
Exceptional Exposure: In-Water $Air/0_2$ Decompression ---------- $SurDO_2$ Required----------														
55	3:20	AIR						7	21	28	212	272:00	3	
		AIR/O_2						7	21	**14**	**57**	113:20		
60	3:20	AIR						11	26	28	248	317:00	3	
		AIR/O_2						11	26	**14**	**67**	132:20		
70	3:00	AIR					3	24	25	28	330	413:40	4	
		AIR/O_2					3	24	25	**14**	**85**	170:00		
Exceptional Exposure: $SurDO_2$ ----------														
80	3:00	AIR					15	23	26	35	430	532:40	4.5	
		AIR/O_2					15	23	26	**18**	**104**	205:00		
90	2:40	AIR				3	22	23	26	47	496	620:20	5.5	
		AIR/O_2				3	22	23	26	**24**	**118**	239:40		
120	2:20	AIR			3	20	22	23	50	75	608	804:00	8	
		AIR/O_2			3	20	22	23	50	**37**	**168**	356:20		
180	2:00	AIR		2	19	20	42	48	79	121	694	1027:40	10.5	
		AIR/O_2		2	19	20	42	48	79	**58**	**222**	538:00		

Table 9-9. *Air Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	Gas Mix	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first air and first O_2 stop 100	90	80	70	60	50	40	30	20	Total Ascent Time (M:S)	Chamber O_2 Periods	Repet Group
160 FSW														
7	5:20	AIR									0	5:20	0	E
		AIR/O_2									**0**	5:20		
10	4:40	AIR									4	9:20	0.5	F
		AIR/O_2									**2**	7:20		
15	4:20	AIR								2	10	17:00	0.5	I
		AIR/O_2								**1**	**6**	12:00		
In-Water Air/O_2 Decompression or SurDO_2 Recommended ----------														
20	4:00	AIR							1	4	19	28:40	0.5	L
		AIR/O_2							1	**2**	**10**	18:00		
25	4:00	AIR							4	7	35	50:40	1	N
		AIR/O_2							4	**4**	**17**	30:00		
30	3:40	AIR						2	6	7	62	81:20	1.5	Z
		AIR/O_2						2	6	**4**	**26**	42:40		
Exceptional Exposure: In-Water Air Decompression ---------- In-Water Air/O_2 Decompression or SurDO_2 Required ----------														
35	3:40	AIR						4	6	8	89	111:20	1.5	Z
		AIR/O_2						4	6	**4**	**34**	57:40		
40	3:40	AIR						6	6	21	134	171:20	2	Z
		AIR/O_2						6	6	**11**	**38**	70:40		
45	3:20	AIR					2	5	11	28	166	216:00	2.5	Z
		AIR/O_2					2	5	11	**14**	**45**	86:20		
Exceptional Exposure: In-Water Air/0_2 Decompression ---------- SurDO_2 Required----------														
50	3:20	AIR					2	8	19	28	207	268:00	3	
		AIR/O_2					2	8	19	**15**	**55**	113:20		
55	3:20	AIR					3	11	26	28	248	320:00	3	
		AIR/O_2					3	11	26	**14**	**67**	135:20		
60	3:20	AIR					6	17	25	29	291	372:00	3.5	
		AIR/O_2					6	17	25	**15**	**77**	154:20		
Exceptional Exposure: SurDO_2 ----------														
70	3:20	AIR					15	23	26	29	399	496:00	4.5	
		AIR/O_2					15	23	26	**15**	**99**	197:20		
80	3:00	AIR				6	21	24	25	44	482	605:40	5.5	
		AIR/O_2				6	21	24	25	**23**	**114**	237:00		

Table 9-9. *Air Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	Gas Mix	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first air and first O_2 stop 100	90	80	70	60	50	40	30	20	Total Ascent Time (M:S)	Chamber O_2 Periods	Repet Group
170 FSW														
6	5:40	AIR									0	5:40	0	D
		AIR/O_2									**0**	5:40		
10	5:00	AIR									6	11:40	0.5	G
		AIR/O_2									**3**	8:40		
In-Water Air/O_2 Decompression or $SurDO_2$ Recommended ----------														
15	4:40	AIR								3	13	21:20	0.5	J
		AIR/O_2								2	**6**	13:20		
20	4:20	AIR							3	6	24	38:00	1	M
		AIR/O_2							3	**3**	**12**	23:20		
25	4:00	AIR						1	7	7	41	60:40	1	O
		AIR/O_2						1	7	**4**	**20**	37:00		
Exceptional Exposure: In-Water Air Decompression ---------- In-Water Air/O_2 Decompression or $SurDO_2$ Required ----------														
30	4:00	AIR						5	7	7	77	100:40	1.5	Z
		AIR/O_2						5	7	**3**	**30**	50:00		
35	3:40	AIR					2	6	6	15	120	153:20	2	Z
		AIR/O_2					2	6	6	**8**	**37**	68:40		
40	3:40	AIR					4	6	9	25	158	206:20	2.5	Z
		AIR/O_2					4	6	9	**12**	**44**	84:40		
Exceptional Exposure: In-Water $Air/0_2$ Decompression ---------- $SurDO_2$ Required----------														
45	3:40	AIR					5	7	16	28	197	257:20	2.5	Z
		AIR/O_2					5	7	16	**14**	**53**	109:40		
50	3:20	AIR				1	5	11	23	28	244	316:00	3	
		AIR/O_2				1	5	11	23	**14**	**66**	134:20		
55	3:20	AIR				2	7	16	26	28	289	372:00	3.5	
		AIR/O_2				2	7	16	26	**14**	**77**	156:20		
60	3:20	AIR				2	11	21	26	28	344	436:00	4	
		AIR/O_2				2	11	21	26	**14**	**88**	181:20		
Exceptional Exposure: $SurDO_2$ ----------														
70	3:20	AIR				7	19	24	25	39	454	572:00	5	
		AIR/O_2				7	19	24	25	**20**	**109**	228:20		
80	3:20	AIR				17	22	23	26	53	525	670:00	6	
		AIR/O_2				17	22	23	26	**27**	**128**	267:20		
90	3:00	AIR			8	19	22	23	37	66	574	752:40	7	
		AIR/O_2			8	19	22	23	37	**33**	**148**	319:00		
120	2:40	AIR		9	19	20	22	42	60	94	659	928:20	9	
		AIR/O_2		9	19	20	22	42	60	**46**	**198**	454:40		
180	2:20	AIR	10	18	19	40	43	70	97	156	703	1159:00	11.5	
		AIR/O_2	10	18	19	40	43	70	97	**74**	**229**	648:00		

Table 9-9. *Air Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	Gas Mix	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first air and first O_2 stop 100	90	80	70	60	50	40	30	20	Total Ascent Time (M:S)	Chamber O_2 Periods	Repet Group
180 FSW														
6	6:00	AIR									0	6:00	0	E
		AIR/O_2									**0**	6:00		
10	5:20	AIR									8	14:00	0.5	G
		AIR/O_2									**4**	10:00		
In-Water Air/O_2 Decompression or SurDO_2 Recommended ----------														
15	4:40	AIR							2	3	14	24:20	0.5	K
		AIR/O_2							2	**2**	**7**	16:40		
20	4:20	AIR						1	5	7	29	47:00	1	M
		AIR/O_2						1	5	**3**	**15**	29:20		
25	4:20	AIR						5	6	7	57	80:00	1.5	O
		AIR/O_2						5	6	**4**	**24**	44:20		
Exceptional Exposure: In-Water Air Decompression ---------- In-Water Air/O_2 Decompression or SurDO_2 Required ----------														
30	4:00	AIR					3	6	6	7	95	121:40	1.5	Z
		AIR/O_2					3	6	6	**4**	**34**	63:00		
35	3:40	AIR				1	5	6	6	22	144	188:20	2	Z
		AIR/O_2				1	5	6	6	**11**	**41**	79:40		
Exceptional Exposure: In-Water Air/0_2 Decompression ---------- SurDO_2 Required----------														
40	3:40	AIR				2	6	5	13	28	178	236:20	2.5	
		AIR/O_2				2	6	5	13	**14**	**48**	97:40		
45	3:40	AIR				4	5	10	20	28	235	306:20	3	
		AIR/O_2				4	5	10	20	**14**	**63**	130:40		
50	3:40	AIR				4	8	13	25	29	277	360:20	3.5	
		AIR/O_2				4	8	13	25	**15**	**75**	154:40		
55	3:40	AIR				5	11	19	26	28	336	429:20	4	
		AIR/O_2				5	11	19	26	**14**	**87**	181:40		
Exceptional Exposure: SurDO_2 ----------														
60	3:20	AIR			1	8	13	23	25	31	406	511:00	4.5	
		AIR/O_2			1	8	13	23	25	**16**	**100**	205:20		
70	3:20	AIR			4	12	21	24	25	48	499	637:00	5.5	
		AIR/O_2			4	12	21	24	25	**24**	**119**	253:20		

Table 9-9. *Air Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	Gas Mix	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first air and first O_2 stop 100	90	80	70	60	50	40	30	20	Total Ascent Time (M:S)	Chamber O_2 Periods	Repet Group
190 FSW														
5	6:20	AIR									0	6:20	0	D
		AIR/O_2									**0**	6:20		
10	5:20	AIR								2	8	16:00	0.5	H
		AIR/O_2								1	**4**	11:00		
In-Water Air/O_2 Decompression or SurDO$_2$ Recommended ----------														
15	4:40	AIR						1	3	3	16	28:20	0.5	K
		AIR/O_2						1	3	**2**	**8**	19:40		
20	4:20	AIR					1	2	6	7	34	55:00	1	N
		AIR/O_2					1	2	6	**4**	**17**	35:20		
Exceptional Exposure: In-Water Air Decompression ---------- In-Water Air/O_2 Decompression or SurDO$_2$ Required ----------														
25	4:20	AIR					2	6	7	7	72	99:00	1.5	Z
		AIR/O_2					2	6	7	**3**	**28**	51:20		
30	4:00	AIR				1	6	5	7	13	122	158:40	2	Z
		AIR/O_2				1	6	5	7	**7**	**38**	74:00		
Exceptional Exposure: In-Water Air/0$_2$ Decompression ---------- SurDO$_2$ Required----------														
35	4:00	AIR				4	5	6	8	26	165	218:40	2.5	Z
		AIR/O_2				4	5	6	8	**13**	**45**	91:00		
40	3:40	AIR			1	5	5	8	17	28	217	285:20	3	
		AIR/O_2			1	5	5	8	17	**15**	**58**	123:40		
45	3:40	AIR			2	5	6	12	24	29	264	346:20	3.5	
		AIR/O_2			2	5	6	12	24	**15**	**71**	149:40		
50	3:40	AIR			3	5	10	17	26	28	324	417:20	4	
		AIR/O_2			3	5	10	17	26	**14**	**85**	179:40		
Exceptional Exposure: SurDO2 ----------														
55	3:40	AIR			4	8	10	24	25	30	397	502:20	4.5	
		AIR/O_2			4	8	10	24	25	**15**	**99**	204:40		
60	3:40	AIR			5	10	16	24	25	40	454	578:20	5	
		AIR/O_2			5	10	16	24	25	**20**	**109**	233:40		
90	3:20	AIR		11	19	20	21	28	51	83	626	863:00	8.5	
		AIR/O_2		11	19	20	21	28	51	**41**	**178**	408:20		
120	3:00	AIR	15	17	19	20	37	46	79	113	691	1040:40	10.5	
		AIR/O_2	15	17	19	20	37	46	79	**55**	**219**	551:00		

Table 9-9. *Air Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	Gas Mix	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first air and first O_2 stop 100	90	80	70	60	50	40	30	20	Total Ascent Time (M:S)	Chamber O_2 Periods	Repet Group
200 FSW														
Exceptional Exposure														
5	6:40	AIR									0	6:40	0	E
		AIR/O_2									**0**	6:40		
10	5:40	AIR								3	8	17:20	0.5	H
		AIR/O_2								**2**	**4**	12:20		
15	5:00	AIR						2	3	5	19	34:40	0.5	L
		AIR/O_2						2	3	**3**	**9**	23:00		
20	4:40	AIR					2	4	6	7	43	67:20	1	O
		AIR/O_2					2	4	6	**4**	**20**	41:40		
25	4:20	AIR				1	5	6	6	7	85	115:00	1.5	Z
		AIR/O_2				1	5	6	6	**4**	**32**	64:20		
30	4:20	AIR				4	6	5	7	19	145	191:00	2	Z
		AIR/O_2				4	6	5	7	**10**	**42**	84:20		
35	4:00	AIR			2	5	5	6	13	28	188	251:40	2.5	
		AIR/O_2			2	5	5	6	13	**14**	**51**	106:00		
40	4:00	AIR			4	5	5	11	21	28	249	327:40	3.5	
		AIR/O_2			4	5	5	11	21	**14**	**68**	143:00		
45	3:40	AIR		1	4	5	10	14	25	28	306	397:20	3.5	
		AIR/O_2		1	4	5	10	14	25	**14**	**81**	168:40		
50	3:40	AIR		2	4	8	10	21	26	28	382	485:20	4.5	
		AIR/O_2		2	4	8	10	21	26	**14**	**97**	201:40		
210 FSW														
Exceptional Exposure														
4	7:00	AIR									0	7:00	0	D
		AIR/O_2									**0**	7:00		
5	6:20	AIR									2	9:00	0.5	E
		AIR/O_2									**1**	8:00		
10	5:40	AIR							2	3	9	20:20	0.5	I
		AIR/O_2							2	**2**	**4**	14:40		
15	5:00	AIR					1	3	3	6	24	42:40	1	M
		AIR/O_2					1	3	3	**3**	**12**	28:00		
20	4:40	AIR				1	3	5	6	7	57	84:20	1	O
		AIR/O_2				1	3	5	6	**4**	**23**	47:40		
25	4:40	AIR				3	6	5	7	8	110	144:20	2	Z
		AIR/O_2				3	6	5	7	**4**	**38**	73:40		
30	4:20	AIR			2	5	6	6	6	26	163	219:00	2.5	Z
		AIR/O_2			2	5	6	6	6	**13**	**45**	93:20		
35	4:00	AIR		1	4	5	6	7	18	28	223	296:40	3	
		AIR/O_2		1	4	5	6	7	18	**14**	**60**	130:00		
40	4:00	AIR		2	5	5	7	11	26	28	278	366:40	3.5	
		AIR/O_2		2	5	5	7	11	26	**14**	**76**	161:00		
45	4:00	AIR		4	4	6	11	18	26	28	355	456:40	4	
		AIR/O_2		4	4	6	11	18	26	**14**	**91**	194:00		
50	3:40	AIR	1	4	5	10	12	23	26	36	432	553:20	5	
		AIR/O_2	1	4	5	10	12	23	26	**18**	**105**	223:40		

Table 9-9. *Air Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	Gas Mix	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first air and first O_2 stop											Total Ascent Time (M:S)	Chamber O_2 Periods	Repet Group
			130	120	110	100	90	80	70	60	50	40	30	20			
220 FSW																	
Exceptional Exposure																	
4	7:20	AIR												0	7:20	0	E
		AIR/O_2												**0**	7:20		
5	6:40	AIR												3	10:20	0.5	E
		AIR/O_2												**2**	9:20		
10	6:00	AIR										3	4	10	23:40	0.5	J
		AIR/O_2										3	**2**	**5**	17:00		
15	5:20	AIR								3	2	4	7	28	50:00	1	N
		AIR/O_2								3	2	4	**4**	**14**	33:20		
20	5:00	AIR							2	4	6	6	7	70	100:40	1.5	Z
		AIR/O_2							2	4	6	6	**4**	**26**	54:00		
25	4:40	AIR						1	5	6	6	6	14	133	176:20	2	Z
		AIR/O_2						1	5	6	6	6	**7**	**41**	82:40		
30	4:20	AIR					1	4	5	6	6	10	28	183	248:00	2.5	
		AIR/O_2					1	4	5	6	6	10	**14**	**50**	106:20		
35	4:20	AIR					3	5	5	5	10	22	28	251	334:00	3.5	
		AIR/O_2					3	5	5	5	10	22	**14**	**68**	147:20		
40	4:00	AIR				1	4	5	5	9	15	26	28	319	416:40	4	
		AIR/O_2				1	4	5	5	9	15	26	**14**	**84**	183:00		
250 FSW																	
Exceptional Exposure																	
4	7:40	AIR												4	12:20	0.5	F
		AIR/O_2												**2**	10:20		
5	7:40	AIR												7	15:20	0.5	G
		AIR/O_2												**4**	12:20		
10	6:20	AIR								2	2	4	3	15	33:00	0.5	L
		AIR/O_2								2	2	4	**2**	**7**	24:20		
15	5:40	AIR						2	2	3	4	6	7	53	83:20	1	O
		AIR/O_2						2	2	3	4	6	**4**	**22**	49:40		
20	5:20	AIR					2	2	4	6	6	6	11	125	168:00	2	Z
		AIR/O_2					2	2	4	6	6	6	**6**	**39**	82:20		
25	5:00	AIR				1	4	4	5	6	6	10	28	189	258:40	2.5	
		AIR/O_2				1	4	4	5	6	6	10	**14**	**51**	112:00		
30	4:40	AIR			1	4	4	4	5	6	9	25	28	267	358:20	3.5	
		AIR/O_2			1	4	4	4	5	6	9	25	**15**	**72**	160:40		
35	4:40	AIR			3	4	4	5	5	10	19	26	28	363	472:20	4	
		AIR/O_2			3	4	4	5	5	10	19	26	**14**	**93**	203:40		

300 FSW

Bottom Time (min)	Time to First Stop (M:S)	Gas Mix	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first air and first O_2 stop 130	120	110	100	90	80	70	60	50	40	30	20	Total Ascent Time (M:S)	Chamber O_2 Periods	Repet Group
Exceptional Exposure ----------																	
4	9:00	AIR											3	7	19:40	0.5	G
		AIR/O_2											**2**	**4**	15:40		
5	8:40	AIR										3	3	8	23:20	0.5	I
		AIR/O_2										3	**2**	**4**	18:40		
10	7:20	AIR						2	3	2	3	4	7	35	64:00	1	N
		AIR/O_2						2	3	2	3	4	**4**	**18**	44:20		
15	6:20	AIR			1	2	2	3	3	5	6	7	11	125	172:00	2	Z
		AIR/O_2			1	2	2	3	3	5	6	7	**6**	**39**	86:20		
20	6:00	AIR		2	2	2	4	5	5	5	6	16	28	219	300:40	3	
		AIR/O_2		2	2	2	4	5	5	5	6	16	**14**	**59**	137:00		
25	5:40	AIR	1	3	4	4	4	5	5	5	18	26	28	324	433:20	4	
		AIR/O_2	1	3	4	4	4	5	5	5	18	26	**14**	**85**	195:40		

Table 10-1. *Equivalent Air Depth Table.*

Diver's Actual Depth (fsw)	EAD Feet															
	25% O_2	26% O_2	27% O_2	28% O_2	29% O_2	30% O_2	31% O_2	32% O_2	33% O_2	34% O_2	35% O_2	36% O_2	37% O_2	38% O_2	39% O_2	40% O_2
20	20	20	20	20	20	20	20	15	15	15	15	15	10	10	10	10
30	30	30	30	30	30	30	30	25	25	25	20	20	20	20	20	20
40	40	40	40	40	40	40	40	35	30	30	30	30	30	30	25	25
50	50	50	50	50	50	50	50	40	40	40	40	40	35	35	35	35
60	60	60	60	60	60	60	50	50	50	50	50	50	50	50	40	40
70	70	70	70	70	70	60	60	60	60	60	60	60	50	50	50	50
80	80	80	80	80	70	70	70	70	70	70	70	60	60	60	60	60
90	90	90	90	90	80	80	80	80	80	80	70	70	70 (:107)	70 (:80)	70 (:61)	70 (:47)
100	100	100	100	90	90	90	90	90	90	80 (:113)	80 (:82)	80 (:61)	80 (:46)	80 (:36)	80 (:29)	70 (:23)
110	110	110	110	100	100	100	100	100 (:96)	100 (:69)	90 (:51)	90 (:39)	90 (:30)				
120	120	120	120	110	110	110 (:91)	110 (:64)	110 (:47)	100 (:35)	100 (:27)						
130	130	130	120	120 (:95)	120 (:65)	120 (:47)	120 (:35)	110 (:26)								
140	140	140 (:109)	130 (:73)	130 (:50)	130 (:36)											
150	150 (:89)	150 (:59)	140 (:41)													
160	160 (:50)	160 (:35)														

EAD = Equivalent Air Depth - For Decompression Table Selection Only Rounded to Next Greater Depth

\= 1.4 ata Normal working limit.

\= Depth exceeds the normal working limit, requires the Commanding Officer's authorization and surface-supplied equipment. Repetitive dives are not authorized. Times listed in parentheses indicate maximum allowable exposure.

Note[1]: Depths not listed are considered beyond the safe limits of NITROX diving.

Note[2]: The EAD, 1.4 ata Normal Working Limit Line and Maximum Allowable Exposure Time for dives deeper than the Normal Working Limit Line are calculated assuming the diver rounds the oxygen percentage in the gas mixture using the standard rounding rule discussed in paragraph 10-4.1. The calculations also take into account the allowable ± 0.5 percent error in gas analysis.

Table 2A-1. *No-Decompression Limits and Repetitive Group Designators for Shallow Water Air No-Decompression Dives.*

Depth (fsw)	No-Stop Limit (min)	Repetitive Group Designation															
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Z
30	371	17	27	38	50	62	76	91	107	125	145	167	193	223	260	307	371
31	334	16	26	37	48	60	73	87	102	119	138	158	182	209	242	282	334
32	304	15	25	35	46	58	70	83	98	114	131	150	172	197	226	261	304
33	281	15	24	34	45	56	67	80	94	109	125	143	163	186	212	243	281
34	256	14	23	33	43	54	65	77	90	104	120	137	155	176	200	228	256
35	232	14	23	32	42	52	63	74	87	100	115	131	148	168	190	215	232
36	212	14	22	31	40	50	61	72	84	97	110	125	142	160	180	204	212
37	197	13	21	30	39	49	59	69	81	93	106	120	136	153	172	193	197
38	184	13	21	29	38	47	57	67	78	90	102	116	131	147	164	184	
39	173	12	20	28	37	46	55	65	76	87	99	112	126	141	157	173	
40	163	12	20	27	36	44	53	63	73	84	95	108	121	135	151	163	
41	155	12	19	27	35	43	52	61	71	81	92	104	117	130	145	155	
42	147	11	19	26	34	42	50	59	69	79	89	101	113	126	140	147	
43	140	11	18	25	33	41	49	58	67	76	87	98	109	122	135	140	
44	134	11	18	25	32	40	48	56	65	74	84	95	106	118	130	134	
45	125	11	17	24	31	39	46	55	63	72	82	92	102	114	125		
46	116	10	17	23	30	38	45	53	61	70	79	89	99	110	116		
47	109	10	16	23	30	37	44	52	60	68	77	87	97	107	109		
48	102	10	16	22	29	36	43	51	58	67	75	84	94	102			
49	97	10	16	22	28	35	42	49	57	65	73	82	91	97			
50	92	9	15	21	28	34	41	48	56	63	71	80	89	92			

Table 2A-2. *Residual Nitrogen Time Table for Repetitive Shallow Water Air Dives.*

Locate the diver's repetitive group designation from his previous dive along the diagonal line above the table. Read horizontally to the interval in which the diver's surface interval lies.

Next, read vertically downward to the new repetitive group designation. Continue downward in this same column to the row that represents the depth of the repetitive dive. The time given at the intersection is residual nitrogen time, in minutes, to be applied to the repetitive dive.

* Dives following surface intervals longer than this are not repetitive dives. Use actual bottom times in the Air Decompression Tables to compute decompression for such dives.

Repetitive Group at Beginning of Surface Interval

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

Repetitive Group at the End of the Surface Interval

Dive Depth	Z	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A
30	372	308	261	224	194	168	146	126	108	92	77	63	51	39	28	18
31	334	282	243	210	183	159	139	120	103	88	74	61	49	38	27	17
32	305	262	227	198	173	151	132	115	99	85	71	59	47	36	26	17
33	282	244	213	187	164	144	126	110	95	81	69	57	46	35	25	16
34	262	229	201	177	156	138	121	105	91	78	66	55	44	34	25	16
35	245	216	191	169	149	132	116	101	88	75	64	53	43	33	24	15
36	231	204	181	161	143	126	111	98	85	73	62	51	41	32	23	15
37	218	194	173	154	137	122	107	94	82	70	60	50	40	31	23	14
38	207	185	165	148	132	117	103	91	79	68	58	48	39	30	22	14
39	197	177	158	142	127	113	100	88	77	66	56	47	38	29	21	14
40	188	169	152	136	122	109	97	85	74	64	55	45	37	29	21	13
41	180	163	146	132	118	105	93	82	72	62	53	44	36	28	20	13
42	173	156	141	127	114	102	91	80	70	61	52	43	35	27	20	13
43	166	150	136	123	110	99	88	78	68	59	50	42	34	26	19	12
44	160	145	131	119	107	96	85	75	66	57	49	41	33	26	19	12
45	154	140	127	115	104	93	83	73	64	56	48	40	32	25	18	12
46	149	136	123	111	101	90	81	71	63	54	46	39	32	25	18	12
47	144	131	119	108	98	88	78	70	61	53	45	38	31	24	18	11
48	139	127	116	105	95	85	76	68	60	52	44	37	30	24	17	11
49	135	123	112	102	92	83	74	66	58	51	43	36	30	23	17	11
50	131	120	109	99	90	81	73	65	57	49	42	35	29	23	17	11

Residual Nitrogen Times (Minutes)

Table 12-4. *Surface-Supplied Helium-Oxygen Decompression Table*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Depth (fsw)	Bottom Time (min.)	Time to First Stop (min:sec)	Decompression Stops (fsw) Stop times (min) include travel time, except first HeO_2 and first O_2 stop																		Chamber O_2 Periods
			190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	
			BOTTOM MIX										50% O_2						100% O_2		
60	10	2:00																		0	0
	20	2:00																		0	0
	30	2:00																		0	0
	40	2:00																		0	0
Max O_2=*40.0%* Min O_2=*14.0%*	60	0:40																10	11	16	1
	80	0:40																10	13	22	2
	100	0:40																10	16	27	2
	120	0:40																10	17	28	2
70	10	2:20																		0	0
	20	2:20																		0	0
	30	2:20																		0	0
	40	1:00																10	10	16	1
Max O_2=*40.0%* Min O_2=*14.0%*	60	1:00																10	14	24	2
	80	1:00																10	18	30	2
	100	1:00																10	19	34	2
	120	1:00																10	21	37	2
80	10	2:40																		0	0
	20	2:40																		0	0
	25	2:40																		0	0
	30	1:20																10	11	16	1
Max O_2=*38.0%* Min O_2=*14.0%*	40	1:20																10	13	21	2
	60	1:20																10	18	32	2
	80	1:20																10	21	38	2
	100	1:20																10	24	42	3
	120	1:20																10	25	45	3
90	10	3:00																		0	0
	20	3:00																		0	0
	30	1:40																10	13	21	2
	40	1:40																10	16	26	2
Max O_2=*34.9%* Min O_2=*14.0%*	60	1:40																10	21	38	2
	80	1:40																10	25	45	3
	100	1:40																10	28	50	3
	120	1:40																10	29	52	3

Table 12-4. *Surface-Supplied Helium-Oxygen Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Depth (fsw)	Bottom Time (min.)	Time to First Stop (min:sec)	Decompression Stops (fsw) Stop times (min) include travel time, except first HeO_2 and first O_2 stop: 190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	Chamber O_2 Periods
			BOTTOM MIX										50% O_2						100% O_2		
100	10	3:20																		0	0
	15	3:20																		0	0
	20	2:00																10	11	17	1
	30	2:00																10	15	24	2
Max O_2=*32.3%* Min O_2=*14.0%*	40	2:00																10	18	32	2
	60	2:00																10	25	44	3
	80	2:00																10	28	52	3
	100	2:00																10	31	56	3
	120	2:00																10	32	58	3
110	10	2:20																10	8	11	1
	20	2:20																10	12	20	1
	30	2:20																10	17	28	2
	40	2:20																10	20	36	2
Max O_2=*30.0%* Min O_2=*14.0%*	60	2:20																10	27	49	3
	80	2:20																10	31	58	3
	100	2:20																10	33	62	4
	Exceptional Exposure ----------																				
	120	2:20																10	35	64	4
120	10	2:40																10	9	13	1
	20	2:40																10	14	23	2
	30	2:40																10	19	33	2
	40	2:40																10	23	42	3
Max O_2=*28.0%* Min O_2=*14.0%*	60	2:40																10	30	55	3
	80	2:40																10	34	63	4
	100	2:40																10	36	66	4
	Exceptional Exposure ----------																				
	120	2:20															10	10	35	65	4
130	10	2:40															10	10	6	8	1
	20	2:40															10	10	12	19	1
	30	2:40															10	10	18	30	2
	40	2:20														7	10	10	22	40	3
Max O_2=*26.3%* Min O_2=*14.0%*	60	2:20														7	10	10	29	52	3
	80	2:20														7	10	10	33	60	3
	Exceptional Exposure ----------																				
	100	2:20														7	10	10	35	64	4
	120	2:20														7	11	11	35	66	4

Table 12-4. *Surface-Supplied Helium-Oxygen Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Depth (fsw)	Bottom Time (min.)	Time to First Stop (min:sec)	Decompression Stops (fsw) Stop times (min) include travel time, except first HeO_2 and first O_2 stop																		Chamber O_2 Periods
			190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	
			BOTTOM MIX										50% O_2						100% O_2		
140	10	3:00															10	10	6	8	1
	20	3:00															10	10	12	19	1
	30	3:00															10	10	18	30	2
	40	2:40														7	10	10	22	40	2
Max O_2=*24.8%*	60	2:40														7	10	10	29	52	3
Min O_2=*14.0%*	80	2:40														7	10	10	33	60	3
	Exceptional Exposure																				
	100	2:40														7	10	10	35	64	4
	120	2:40														7	11	11	35	66	4
150	10	3:20															10	10	7	8	1
	20	3:00														7	10	10	14	22	2
	30	3:00														7	10	10	19	34	2
	40	3:00														7	10	10	24	44	3
Max O_2=*23.4%*	60	3:00														7	10	10	31	56	3
Min O_2=*14.0%*	80	3:00														7	10	10	35	64	4
	Exceptional Exposure																				
	100	3:00														7	13	13	36	66	4
	120	3:00														9	16	16	36	66	5
160	10	3:20														7	10	10	8	10	1
	20	3:20														7	10	10	15	24	2
	30	3:20														7	10	10	21	37	2
	40	3:20														7	10	10	26	47	3
	60	3:00													7	6	10	10	30	56	3
Max O_2=*22.2%*	**Exceptional Exposure**																				
Min O_2=*14.0%*	80	3:00													7	9	10	10	35	66	4
	100	3:00													7	13	14	14	35	66	5
	120	3:00													7	17	17	17	36	66	5
170	10	3:20													7	0	10	10	8	12	1
	20	3:20													7	0	10	10	16	28	2
	30	3:20													7	1	10	10	23	42	3
	40	3:20													7	4	10	10	28	52	3
	60	3:20													7	10	10	10	33	62	4
Max O_2=*21.1%*	**Exceptional Exposure**																				
Min O_2=*14.0%*	80	3:20													9	14	14	14	35	66	4
	100	3:00												7	5	18	18	18	36	66	5
	120	3:00												7	9	21	21	21	36	66	5

Table 12-4. *Surface-Supplied Helium-Oxygen Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Depth (fsw)	Bottom Time (min.)	Time to First Stop (min:sec)	Decompression Stops (fsw) Stop times (min) include travel time, except first HeO_2 and first O_2 stop																		Chamber O_2 Periods
			190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	
			BOTTOM MIX										50% O_2						100% O_2		
140	10	3:00															10	10	6	8	1
	20	3:00															10	10	12	19	1
	30	3:00															10	10	18	30	2
	40	2:40														7	10	10	22	40	2
Max O_2=*24.8%*	60	2:40														7	10	10	29	52	3
Min O_2=*14.0%*	80	2:40														7	10	10	33	60	3
	Exceptional Exposure ----------																				
	100	2:40														7	10	10	35	64	4
	120	2:40														7	11	11	35	66	4
150	10	3:20															10	10	7	8	1
	20	3:00														7	10	10	14	22	2
	30	3:00														7	10	10	19	34	2
	40	3:00														7	10	10	24	44	3
Max O_2=*23.4%*	60	3:00														7	10	10	31	56	3
Min O_2=*14.0%*	80	3:00														7	10	10	35	64	4
	Exceptional Exposure ----------																				
	100	3:00														7	13	13	36	66	4
	120	3:00														9	16	16	36	66	5
160	10	3:20														7	10	10	8	10	1
	20	3:20														7	10	10	15	24	2
	30	3:20														7	10	10	21	37	2
	40	3:20														7	10	10	26	47	3
	60	3:00													7	6	10	10	30	56	3
Max O_2=*22.2%*	**Exceptional Exposure** ----------																				
Min O_2=*14.0%*	80	3:00													7	9	10	10	35	66	4
	100	3:00													7	13	14	14	35	66	5
	120	3:00													7	17	17	17	36	66	5
170	10	3:20													7	0	10	10	8	12	1
	20	3:20													7	0	10	10	16	28	2
	30	3:20													7	1	10	10	23	42	3
	40	3:20													7	4	10	10	28	52	3
	60	3:20													7	10	10	10	33	62	4
Max O_2=*21.1%*	**Exceptional Exposure** ----------																				
Min O_2=*14.0%*	80	3:20													9	14	14	14	35	66	4
	100	3:00												7	5	18	18	18	36	66	5
	120	3:00												7	9	21	21	21	36	66	5

Table 12-4. *Surface-Supplied Helium-Oxygen Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Depth (fsw)	Bottom Time (min.)	Time to First Stop (min:sec)	Decompression Stops (fsw) Stop times (min) include travel time, except first HeO_2 and first O_2 stop																		Chamber O_2 Periods
			190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	
			BOTTOM MIX										50% O_2						100% O_2		
180	10	3:40													7	0	10	10	9	14	1
	20	3:40													7	0	10	10	17	30	2
	30	3:40													7	4	10	10	25	45	3
	40	3:20												7	0	8	10	10	30	54	3
Max O_2=*20.1%*	60	3:20												7	5	11	11	11	35	64	4
Min O_2=*14.0%*	**Exceptional Exposure** ----------																				
	80	3:20												7	9	15	15	15	36	66	4
	100	3:20												7	13	19	19	19	36	66	5
	120	3:20												7	17	23	23	23	36	66	6
190	10	4:00													7	0	10	10	10	15	1
	20	3:40												7	0	2	10	10	19	34	2
	30	3:40												7	0	7	10	10	26	46	3
	40	3:40												7	4	9	10	10	31	56	3
	Exceptional Exposure ----------																				
Max O_2=*19.2%*	60	3:40												7	9	13	13	13	34	62	4
Min O_2=*14.0%*	80	3:20											7	3	13	18	18	18	36	66	5
	100	3:20											7	6	16	21	21	21	36	66	6
	120	3:20											7	8	20	23	23	23	36	66	7
200	10	4:00												7	0	0	10	10	11	17	1
	20	4:00												7	0	4	10	10	20	36	2
	30	3:40											7	0	3	7	10	10	27	50	3
	40	3:40											7	0	7	10	10	10	31	58	3
	Exceptional Exposure ----------																				
Max O_2=*18.4%*	60	3:40											7	4	10	14	14	14	35	66	4
Min O_2=*14.0%*	80	3:40											7	8	14	18	18	18	36	66	5
	100	3:40											7	12	17	23	23	23	36	66	6
	120	3:40											8	15	21	23	23	23	36	66	7
210	10	4:20												7	0	0	10	10	12	19	1
	20	4:00											7	0	1	6	10	10	22	38	2
	30	4:00											7	0	6	7	10	10	29	53	3
	40	4:00											7	3	9	10	10	10	33	60	3
	Exceptional Exposure ----------																				
Max O_2=*17.7%*	60	3:40										7	0	9	11	17	17	17	35	66	5
Min O_2=*10.0%*	80	3:40										7	3	11	15	20	20	20	36	66	6
	100	3:40										7	6	14	19	23	23	23	36	66	7
	120	3:40										7	8	18	23	23	23	23	36	66	7

Table 12-4. *Surface-Supplied Helium-Oxygen Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Depth (fsw)	Bottom Time (min.)	Time to First Stop (min:sec)	Decompression Stops (fsw) Stop times (min) include travel time, except first HeO_2 and first O_2 stop																		Chamber O_2 Periods
			190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	
			BOTTOM MIX										50% O_2						100% O_2		
220	10	4:40												7	0	2	10	10	13	20	1
	20	4:20											7	0	3	7	10	10	23	41	3
	30	4:20											7	2	6	9	10	10	30	54	3
	40	4:00										7	0	6	9	11	11	11	34	62	4
	Exceptional Exposure ----------																				
Max O_2=17.0% Min O_2=10.0%	60	4:00										7	4	9	12	18	18	18	36	66	5
	80	4:00										7	8	12	17	21	21	21	36	66	6
	100	4:00										7	12	15	20	23	23	23	36	66	7
	120	4:00										8	14	19	23	23	23	23	36	66	8
230	10	4:40											7	0	0	3	10	10	14	22	2
	20	4:20										7	0	3	4	7	10	10	24	44	3
	30	4:20										7	0	5	7	10	10	10	31	57	3
	40	4:00									7	0	3	7	9	13	13	13	34	64	4
	Exceptional Exposure ----------																				
Max O_2=16.3% Min O_2=10.0%	60	4:00									7	0	8	10	14	18	18	18	36	66	6
	80	4:00									7	3	10	14	18	23	23	23	36	66	7
	100	4:00									7	6	12	17	23	23	23	23	36	66	8
	120	4:00									7	7	16	19	23	23	23	23	36	66	8
240	10	4:40										7	0	0	3	4	10	10	14	24	2
	20	4:40										7	0	3	5	7	10	10	25	46	3
	30	4:20									7	0	3	6	7	10	10	10	32	58	3
	40	4:20									7	0	5	8	9	14	14	14	35	64	4
	Exceptional Exposure ----------																				
Max O_2=15.7% Min O_2=10.0%	60	4:20									7	4	8	11	14	19	19	19	36	66	6
	80	4:20									7	7	11	16	18	23	23	23	36	66	7
	100	4:20									7	10	14	19	23	23	23	23	36	66	8
	120	4:00								7	3	12	17	19	23	23	23	23	36	66	8
250	10	5:00										7	0	0	3	4	10	10	15	25	2
	20	4:40									7	0	0	3	7	7	10	10	26	47	3
	30	4:40									7	0	4	6	8	10	10	10	32	60	4
	40	4:40									7	2	5	9	9	14	14	14	35	64	4
	Exceptional Exposure ----------																				
Max O_2=15.2% Min O_2=10.0%	60	4:20								7	0	7	9	12	16	21	21	21	36	66	6
	80	4:20								7	3	9	13	15	21	23	23	23	36	66	7
	100	4:20								7	6	11	14	19	23	23	23	23	36	66	8
	120	4:20								7	8	13	19	20	23	23	23	23	36	66	8

Table 12-4. *Surface-Supplied Helium-Oxygen Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Depth (fsw)	Bottom Time (min.)	Time to First Stop (min:sec)	Decompression Stops (fsw) Stop times (min) include travel time, except first HeO_2 and first O_2 stop																		Chamber O_2 Periods
			190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	
			BOTTOM MIX										50% O_2						100% O_2		
260	10	5:00									7	0	0	0	4	4	10	10	16	27	2
	20	5:00									7	0	3	4	6	7	10	10	27	50	3
	30	4:40								7	0	2	5	6	9	10	10	10	33	62	4
	40	4:40								7	0	3	8	9	10	15	15	15	35	64	5
	Exceptional Exposure																				
Max O_2=14.6% Min O_2=10.0%	60	4:40								7	3	7	10	14	16	21	21	21	36	66	6
	80	4:40								7	6	10	13	17	23	23	23	23	36	66	7
	100	4:20							7	2	9	13	16	20	23	23	23	23	36	66	8
	120	4:20							7	4	11	14	19	20	23	23	23	23	36	66	8
270	10	5:20									7	0	0	3	3	4	10	10	17	28	2
	20	5:00								7	0	0	3	6	6	8	10	10	29	52	3
	30	5:00								7	0	3	6	6	9	13	13	13	34	62	4
	Exceptional Exposure																				
Max O_2=14.2% Min O_2=10.0%	40	4:40							7	0	2	5	8	8	12	16	16	16	35	66	5
	60	4:40							7	0	6	8	10	14	19	23	23	23	36	66	6
	80	4:40							7	3	8	11	14	17	23	23	23	23	36	66	7
	100	4:40							7	5	11	13	16	20	23	23	23	23	36	66	8
	120	4:40							7	8	12	16	19	20	23	23	23	23	36	66	8
280	10	5:40									7	0	0	3	3	4	10	10	18	31	2
	20	5:20								7	0	0	4	6	7	7	10	10	30	54	3
	30	5:00							7	0	1	5	5	9	9	12	12	12	35	64	4
	Exceptional Exposure																				
Max O_2=13.7% Min O_2=10.0%	40	5:00							7	0	4	6	8	9	12	17	17	17	35	66	5
	60	5:00							7	4	6	8	12	15	18	23	23	23	36	66	7
	80	4:40						7	0	7	9	11	15	17	23	23	23	23	36	66	8
	100	4:40						7	2	9	11	15	17	20	23	23	23	23	36	66	8
	120	4:40						7	4	11	13	16	19	20	23	23	23	23	36	66	8
290	10	5:40								7	0	0	0	4	3	4	10	10	19	33	2
	20	5:20							7	0	0	2	6	6	6	9	10	10	30	56	3
	30	5:20							7	0	2	5	5	9	9	14	14	14	34	63	5
	Exceptional Exposure																				
Max O_2=13.3% Min O_2=10.0%	40	5:20							7	0	5	7	8	11	13	17	17	17	35	66	5
	60	5:00						7	0	6	7	9	12	15	20	23	23	23	36	66	7
	80	5:00						7	2	8	10	12	16	19	23	23	23	23	36	66	8
	100	5:00						7	5	10	12	15	19	20	23	23	23	23	36	66	8
	120	5:00						7	8	11	16	17	19	20	23	23	23	23	36	66	8

Table 12-4. *Surface-Supplied Helium-Oxygen Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Depth (fsw)	Bottom Time (min.)	Time to First Stop (min:sec)	Decompression Stops (fsw) Stop times (min) include travel time, except first HeO_2 and first O_2 stop																		Chamber O_2 Periods
			190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	
			BOTTOM MIX										50% O_2						100% O_2		
300	10	6:00								7	0	0	0	4	3	4	10	10	19	33	2
	20	5:40							7	0	0	2	6	6	6	9	10	10	30	56	3
	30	5:40							7	0	2	5	5	9	9	14	14	14	34	63	5
	Exceptional Exposure																				
	40	5:40							7	0	5	7	8	11	13	17	17	17	35	66	6
Max O_2=12.9%	60	5:20						7	0	6	7	9	12	15	20	23	23	23	36	66	7
Min O_2=10.0%	80	5:20						7	2	8	10	12	16	19	23	23	23	23	36	66	8
	100	5:20						7	5	10	12	15	19	20	23	23	23	23	36	66	8
	120	5:20						7	8	11	16	17	19	20	23	23	23	23	36	66	8
310	**Exceptional Exposure**																				
	10	6:00							7	0	0	0	3	3	3	7	10	10	21	36	2
	20	5:40						7	0	0	2	4	5	6	7	10	10	10	31	57	4
	30	5:40						7	0	2	4	5	7	8	11	15	15	15	35	66	5
	40	5:20					7	0	1	4	6	7	8	12	15	19	19	19	36	66	7
Max O_2=12.5%	60	5:20					7	0	5	6	9	11	13	17	20	23	23	23	36	66	8
Min O_2=10.0%	80	5:20					7	3	7	9	11	13	17	20	23	23	23	23	36	66	8
	100	5:20					7	5	9	11	13	17	19	20	23	23	23	23	36	66	8
	120	5:20					7	7	12	13	16	17	19	20	23	23	23	23	36	66	8
320	**Exceptional Exposure**																				
	10	6:20							7	0	0	0	4	3	3	7	10	10	21	38	2
	20	6:00						7	0	0	3	5	5	6	8	10	10	10	32	59	4
	30	5:40					7	0	0	4	4	6	7	9	11	17	17	17	35	66	5
	40	5:40					7	0	4	4	6	7	9	12	16	20	20	20	36	66	6
Max O_2=12.2%	60	5:20				7	0	2	6	8	9	11	14	17	23	23	23	23	36	66	8
Min O_2=10.0%	80	5:20				7	0	6	8	8	13	14	19	20	23	23	23	23	36	66	8
	100	5:20				7	2	7	10	13	16	17	19	20	23	23	23	23	36	66	8
	120	5:20				7	4	9	12	13	16	17	19	20	23	23	23	23	36	66	8
330	**Exceptional Exposure**																				
	10	6:20						7	0	0	0	2	3	3	4	7	10	10	22	40	2
	20	6:00					7	0	0	2	3	4	6	5	10	10	10	10	33	60	4
	30	6:00					7	0	1	4	5	6	8	8	13	17	17	17	35	66	6
	40	5:40				7	0	1	4	5	7	7	10	12	17	22	22	22	36	66	7
Max O_2=11.8%	60	5:40				7	0	5	6	8	9	11	15	20	23	23	23	23	36	66	8
Min O_2=10.0%	80	5:40				7	2	7	8	10	13	15	19	20	23	23	23	23	36	66	8
	100	5:40				7	5	9	9	13	16	17	19	20	23	23	23	23	36	66	8
	120	5:20			7	1	7	10	13	15	16	17	19	20	23	23	23	23	36	66	8

Table 12-4. *Surface-Supplied Helium-Oxygen Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Depth (fsw)	Bottom Time (min.)	Time to First Stop (min:sec)	Decompression Stops (fsw) Stop times (min) include travel time, except first HeO_2 and first O_2 stop																		Chamber O_2 Periods
			190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	
			BOTTOM MIX										50% O_2						100% O_2		
340	**Exceptional Exposure** ----------																				
	10	6:40						7	0	0	0	3	3	3	4	7	10	10	23	41	3
	20	6:20					7	0	0	2	4	5	7	8	9	10	10	10	33	60	5
	30	6:00				7	0	0	3	5	5	6	8	9	13	18	18	18	35	66	6
	40	6:00				7	0	2	4	6	7	8	10	13	16	22	22	22	36	66	7
Max O_2=11.5% Min O_2=10.0%	60	5:40			7	0	3	5	6	9	10	13	16	18	21	23	23	23	36	66	8
	80	5:40			7	0	7	7	8	11	13	15	19	20	23	23	23	23	36	66	8
	100	5:40			7	2	8	8	12	13	16	17	19	20	23	23	23	23	36	66	8
	120	5:40			7	4	9	11	13	15	16	17	19	20	23	23	23	23	36	66	8
350	**Exceptional Exposure** ----------																				
	10	6:40					7	0	0	0	2	2	3	3	5	7	10	10	24	43	3
	20	6:20				7	0	0	0	4	4	5	5	7	9	13	13	13	33	63	5
	30	6:20				7	0	1	4	4	5	7	8	11	13	18	18	18	36	66	6
	40	6:00			7	0	1	3	5	6	7	8	11	14	17	23	23	23	36	66	7
Max O_2=11.2% Min O_2=10.0%	60	6:00			7	0	5	5	8	8	11	12	16	19	23	23	23	23	36	66	8
	80	6:00			7	2	7	7	10	11	13	17	19	20	23	23	23	23	36	66	8
	100	5:40		7	0	6	8	9	11	15	16	17	19	20	23	23	23	23	36	66	8
	120	5:40		7	1	7	9	12	14	15	16	17	19	20	23	23	23	23	36	66	8
360	**Exceptional Exposure** ----------																				
	10	7:00					7	0	0	0	2	2	3	3	7	7	10	10	25	44	3
	20	6:40				7	0	0	2	3	4	5	5	8	10	13	13	13	34	63	5
	30	6:20			7	0	0	3	3	5	6	7	8	11	13	19	19	19	36	66	7
	40	6:20			7	0	2	4	5	7	7	9	10	14	20	23	23	23	36	66	8
Max O_2=10.9% Min O_2=10.0%	60	6:20			7	2	5	6	7	9	11	14	16	19	23	23	23	23	36	66	8
	80	6:00		7	0	6	6	8	11	12	14	16	19	20	23	23	23	23	36	66	8
	100	6:00		7	2	7	8	11	13	13	16	17	19	20	23	23	23	23	36	66	8
	120	6:00		7	4	8	10	12	14	15	16	17	19	20	23	23	23	23	36	66	8

Table 12-4. *Surface-Supplied Helium-Oxygen Decompression Table (Continued).*
(DESCENT RATE 75 FPM—ASCENT RATE 30 FPM)

Depth (fsw)	Bottom Time (min.)	Time to First Stop (min:sec)	Decompression Stops (fsw) Stop times (min) include travel time, except first HeO_2 and first O_2 stop																		Chamber O_2 Periods
			190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	
			BOTTOM MIX										50% O_2						100% O_2		
370	**Exceptional Exposure**																				
	10	7:00				7	0	0	0	0	3	3	3	3	7	7	10	10	25	46	3
	20	6:40			7	0	0	0	3	4	4	5	5	8	10	13	13	13	34	63	5
	30	6:20		7	0	0	2	3	4	4	7	7	8	11	16	19	19	19	36	66	7
	40	6:20		7	0	0	4	4	5	6	8	10	11	14	20	23	23	23	36	66	8
Max O_2=10.6% Min O_2=10.0%	60	6:20		7	0	4	5	7	8	9	11	13	17	20	23	23	23	23	36	66	8
	80	6:00	7	0	3	6	7	9	10	12	15	17	19	20	23	23	23	23	36	66	8
	100	6:00	7	0	6	7	9	10	14	15	16	17	19	20	23	23	23	23	36	66	8
	120	6:00	7	1	7	9	11	13	14	15	16	17	19	20	23	23	23	23	36	66	8
380	**Exceptional Exposure**																				
	10	7:20				7	0	0	0	0	3	3	3	3	7	7	10	10	25	46	3
	20	7:00			7	0	0	0	3	4	4	5	5	8	10	13	13	13	34	63	6
	30	6:40		7	0	0	2	3	4	4	7	7	8	11	16	19	19	19	36	66	7
	40	6:40		7	0	0	4	4	5	6	8	10	11	14	20	23	23	23	36	66	8
Max O_2=10.4% Min O_2=10.0%	60	6:40		7	0	4	5	7	8	9	11	13	17	20	23	23	23	23	36	66	8
	80	6:20	7	0	3	6	7	9	10	12	15	17	19	20	23	23	23	23	36	66	8
	100	6:20	7	0	6	7	9	10	14	15	16	17	19	20	23	23	23	23	36	66	8
	120	6:20	7	1	7	9	11	13	14	15	16	17	19	20	23	23	23	23	36	66	8

1.3 ata ppO_2 N_2O_2 Tables

No Decompression Limits and Repetitive Group Designators for 1.3 ata ppO_2 N_2O_2 Dives

Depth (fsw)	No-Stop Limit	Repetitive Group Designator															
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Z
10	Unlimited	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
15	Unlimited	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
20	Unlimited	153	420	*													
25	Unlimited	51	87	133	196	296	557	*									
30	Unlimited	31	50	72	98	128	164	210	273	372	629	*					
35	Unlimited	22	35	50	66	84	103	126	151	181	217	263	326	425	680	*	
40	Unlimited	89	168	318	*												
50	Unlimited	27	44	63	84	108	136	169	210	265	344	496	*				
60	297	16	25	36	46	58	70	83	97	113	130	149	170	194	222	255	297
70	130	11	18	25	32	39	47	55	64	73	83	93	103	115	127	130	
80	70	9	14	19	24	30	36	42	48	54	61	68	70				
90	50	7	11	15	20	24	29	33	38	43	48	50					
100	39	6	9	13	16	20	24	28	32	36	39						
110	32	5	8	11	14	17	20	24	27	30	32						
120	27	4	7	9	12	15	18	20	23	26	27						
130	23	3	6	8	11	13	16	18	21	23							
140	21	3	5	7	9	12	14	16	18	21							
150	17	3	5	6	8	10	12	15	17								
Exceptional Exposure ----------																	
160	15	3	4	6	8	9	11	13	15								
170	13	4	5	7	9	10	12	13									
180	12		3	5	6	8	9	11	12								
190	10			4	6	7	9	10									

– Diver does not acquire a repetitive group designator during dives to these depths.
* Highest repetitive group that can be achieved at this depth regardless of bottom time.

Table 15-8. *No Decompression Limits and Repetitive Group Designators for 1.3 ata ppO_2 N_2O_2 Dives.*

Residual Nitrogen Timetable for 1.3 ata ppO_2 N_2O_2 Dives

Table 15-9. *Residual Nitrogen Timetable for 1.3 ata ppO_2 N_2O_2 Dives.*

Locate the diver's repetitive group designation from his previous dive along the diagonal line above the table. Read horizontally to the interval in which the diver's surface interval lies.

Next, read vertically downward to the new repetitive group designation. Continue downward in this same column to the row that represents the depth of the repetitive dive. The time given at the intersection is residual nitrogen time, in minutes, to be applied to the repetitive dive.

* Dives following surface intervals longer than this are not repetitive dives. Use actual bottom times in the Tables 15-8 and 15-10 to compute decompression for such dives.

Repetitive Group at Beginning of Surface Interval

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

Dive Depth	Repetitive Group at the End of the Surface Interval															
	Z	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A
10	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
15	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
20	**	**	**	**	**	**	**	**	**	**	**	**	**	**	420	153
25	**	**	**	**	**	**	**	**	**	**	556	296	196	134	88	51
30	**	**	**	**	**	**	626	372	273	211	165	129	99	73	51	31
35	**	**	671	423	325	263	218	181	152	126	104	84	67	51	36	22
40	**	**	**	**	**	**	**	**	**	**	**	**	**	311	166	88
50	**	**	**	**	**	481	339	262	209	168	135	107	84	63	44	27
60	293	252	220	192	168	148	129	112	97	83	70	58	46	36	26	16
70	153	139	126	114	103	92	82	73	64	56	47	40	32	25	18	12
80	107	98	90	82	75	68	61	54	48	42	36	30	25	19	14	9
90	82	76	70	64	59	54	48	43	38	34	29	25	20	16	12	8
100	67	62	58	53	49	44	40	36	32	28	24	21	17	13	10	7
110	57	53	49	45	41	38	34	31	28	24	21	18	15	12	9	6
120	49	46	42	39	36	33	30	27	24	21	19	16	13	10	8	5
130	43	40	38	35	32	29	27	24	22	19	17	14	12	9	7	5
140	39	36	34	31	29	26	24	22	19	17	15	13	11	8	6	4
150	35	33	31	28	26	24	22	20	18	16	14	12	10	8	6	4
160	32	30	28	26	24	22	20	18	16	14	13	11	9	7	5	4
170	30	28	26	24	22	20	19	17	15	13	12	10	8	7	5	3
180	27	26	24	22	21	19	17	16	14	12	11	9	8	6	5	3
190	25	24	22	21	19	18	16	15	13	12	10	9	7	6	4	3

Residual Nitrogen Time (Minutes)

– Repetitive dives to these depths are equivalent to remaining on the surface. Add the bottom time of the dive to the preceding surface interval. Use the Surface Interval Credit Table (SICT) to determine the repetitive group at the end of the dive.

** Residual Nitrogen Time cannot be determined using this table. See paragraph 9-9.1 subparagraph 8 for guidance. Substitute the ** depths in this table for those in the instructions.

REPETITIVE DIVE WORKSHEET FOR 1.3 ata ppO_2 N_2O_2 DIVES

Part 1. Previous Dive

_____ *minutes*
_____ *feet*
_____ *repetitive group designator from Table 15-8 if the dive was a no-decompression dive, or Table 15-10 if the dive was a decompression dive.*

Part 2. Surface Interval:

Enter the top section of Table 15-9 at the row for the repetitive group designator from Part 1 and move horizontally to the column in which the actual or planned surface interval time lies. Read the final repetitive group designator from the bottom of this column.

_____ *hours* _____ *minutes on the surface*

_____ *final repetitive group from Table 15-9*

Part 3. Equivalent Single Dive Time for the Repetitive Dive:

Enter the bottom section of Table 15-9 at the row for the maximum depth of the planned repetitive dive. Move horizontally to the column of the final repetitive group designator from Part 2 to find the Residual Nitrogen Time (RNT). Add this RNT to the planned bottom time for the repetitive dive to obtain the equivalent single dive time.

_____ *minutes: RNT*

+_____ *minutes: planned bottom time*

=_____ *minutes: equivalent single dive time*

Part 4. Decompression Schedule for the Repetitive Dive:

Locate the row for the depth of the planned repetitive dive in Table 15-8. Move horizontally to the column with bottom time equal to or just greater than the equivalent single dive time and read the surfacing repetitive group for the repetitive dive from the top of the column. If the equivalent single dive time exceeds the no-decompression limit, locate the row for the depth and equivalent single dive time in Table 15-10. Read the required decompression stops and surfacing repetitive group from the columns to the right along this row.

_____ *minutes: equivalent single dive time from Part 3*

_____ *feet: depth of the repetitive dive.*

_____ *Schedule (depth/bottom time) from Table 15-8 or Table 15-10.*

Ensure RNT Exception Rule does not apply.
Verify allowable repet from Table 15-1.

Figure 15-8. Repetitive Dive Worksheet for *1.3 ata ppO_2 N_2O_2*.

1.3 ata ppO_2 N_2O_2 Decompression Tables

Table 15-10. *1.3 ata ppO_2 N_2O_2 Decompression Tables.*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop 80	70	60	50	40	30	20	Total Ascent Time (M:S)	Repet Group
60 FSW										
297	2:00							0	2:00	Z
300	1:20							1	3:00	Z
310	1:20							2	4:00	Z
320	1:20							3	5:00	Z
330	1:20							4	6:00	Z
Exceptional Exposure ----------										
340	1:20							5	7:00	
350	1:20							6	8:00	
360	1:20							7	9:00	
370	1:20							8	10:00	
380	1:20							9	11:00	
390	1:20							10	12:00	
70 FSW										
130	2:20							0	2:20	O
140	1:40							3	5:20	O
150	1:40							6	8:20	O
160	1:40							8	10:20	Z
170	1:40							10	12:20	Z
180	1:40							12	14:20	Z
190	1:40							14	16:20	Z
200	1:40							16	18:20	Z
210	1:40							19	21:20	Z
220	1:40							22	24:20	Z
230	1:40							24	26:20	Z
Exceptional Exposure ----------										
240	1:40							26	28:20	
250	1:40							29	31:20	
260	1:40							31	33:20	
270	1:40							33	35:20	
280	1:40							35	37:20	
290	1:40							37	39:20	
300	1:40							38	40:20	
310	1:40							40	42:20	
320	1:40							42	44:20	
340	1:40							47	49:20	
350	1:40							49	51:20	

Table 15-10. *1.3 ata ppO_2 N_2O_2 Decompression Tables (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop 80	70	60	50	40	30	20	Total Ascent Time (M:S)	Repet Group
80 FSW										
70	2:40							0	2:40	L
75	2:00							2	4:40	L
80	2:00							4	6:40	M
85	2:00							5	7:40	M
90	2:00							6	8:40	N
95	2:00							7	9:40	N
100	2:00							9	11:40	N
110	2:00							12	14:40	O
120	2:00							16	18:40	O
130	2:00							20	22:40	Z
140	2:00							24	26:40	Z
150	2:00							27	29:40	Z
160	2:00							30	32:40	Z
170	2:00							34	36:40	Z
Exceptional Exposure ----------										
180	2:00							39	41:40	
190	2:00							43	45:40	
200	2:00							47	49:40	
210	2:00							50	52:40	
220	2:00							54	56:40	
230	2:00							57	59:40	
240	2:00							60	62:40	
250	2:00							63	65:40	
260	2:00							67	69:40	
270	2:00							70	72:40	
280	2:00							74	76:40	
290	2:00							77	79:40	
300	2:00							81	83:40	
310	2:00							84	86:40	
320	2:00							87	89:40	

1.3 ata ppO_2 N_2O_2 Decompression Tables

Table 15-10. *1.3 ata ppO_2 N_2O_2 Decompression Tables (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop 80	70	60	50	40	30	20	Total Ascent Time (M:S)	Repet Group
90 FSW										
50	3:00							0	3:00	K
55	2:20							3	6:00	K
60	2:20							6	9:00	L
65	2:20							8	11:00	L
70	2:20							11	14:00	M
75	2:20							13	16:00	M
80	2:20							14	17:00	N
85	2:20							16	19:00	N
90	2:20							18	21:00	O
95	2:20							21	24:00	O
100	2:20							24	27:00	O
110	2:20							30	33:00	O
120	2:20							35	38:00	Z
130	2:20							40	43:00	Z
Exceptional Exposure ----------										
140	2:20							45	48:00	
150	2:20							51	54:00	
160	2:20							57	60:00	
170	2:00						1	62	65:40	
180	2:00						2	66	70:40	
190	2:00						2	71	75:40	
100 FSW										
39	3:20							0	3:20	J
40	2:40							1	4:20	J
45	2:40							5	8:20	K
50	2:40							9	12:20	L
55	2:40							12	15:20	L
60	2:40							15	18:20	M
65	2:40							18	21:20	M
70	2:40							21	24:20	N
75	2:40							23	26:20	N
80	2:40							26	29:20	O
85	2:40							30	33:20	O
90	2:40							34	37:20	O
95	2:20						1	37	41:00	O
100	2:20						3	39	45:00	O
Exceptional Exposure ----------										
110	2:20						6	43	52:00	
120	2:20						8	47	58:00	

Table 15-10. *1.3 ata ppO_2 N_2O_2 Decompression Tables (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop 80	70	60	50	40	30	20	Total Ascent Time (M:S)	Repet Group
110 FSW										
32	3:40							0	3:40	J
35	3:00							3	6:40	J
40	3:00							8	11:40	K
45	3:00							13	16:40	L
50	3:00							17	20:40	L
55	3:00							21	24:40	M
60	3:00							25	28:40	M
65	3:00							28	31:40	N
70	2:40						1	30	34:20	O
75	2:40						4	32	39:20	O
80	2:40						7	34	44:20	O
Exceptional Exposure ----------										
85	2:40						9	37	49:20	
90	2:40						11	39	53:20	
95	2:40						13	42	58:20	
100	2:40						15	44	62:20	
110	2:20					3	15	49	70:00	
120	2:20					6	15	56	80:00	
120 FSW										
27	4:00							0	4:00	J
30	3:20							4	8:00	J
35	3:20							10	14:00	K
40	3:20							16	20:00	L
45	3:20							21	25:00	L
50	3:20							26	30:00	M
55	3:20							30	34:00	M
60	3:00						4	31	38:40	N
65	3:00						8	30	41:40	O
Exceptional Exposure ----------										
70	3:00						12	32	47:40	
75	3:00						15	35	53:40	
80	2:40					3	15	38	59:20	
85	2:40					6	15	41	65:20	
90	2:40					8	15	44	70:20	
95	2:40					10	15	47	75:20	
100	2:40					12	15	51	81:20	

1.3 ata ppO_2 N_2O_2 Decompression Tables

Table 15-10. *1.3 ata ppO_2 N_2O_2 Decompression Tables (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop							Total Ascent Time (M:S)	Repet Group
		80	70	60	50	40	30	20		
130 FSW										
23	4:20							0	4:20	I
25	3:40							2	6:20	J
30	3:40							10	14:20	K
35	3:40							17	21:20	K
40	3:40							23	27:20	L
45	3:40							29	33:20	M
50	3:20						4	30	38:00	N
55	3:20						9	30	43:00	N
Exceptional Exposure ----------										
60	3:20						14	30	48:00	
65	3:00					3	15	33	54:40	
70	3:00					7	15	36	61:40	
75	3:00					11	15	39	68:40	
80	3:00					14	15	42	74:40	
140 FSW										
21	4:40							0	4:40	I
25	4:00							7	11:40	J
30	4:00							16	20:40	K
35	4:00							23	27:40	L
40	3:40						2	29	35:20	L
45	3:40						7	30	41:20	M
Exceptional Exposure ----------										
50	3:20					1	12	30	47:00	
55	3:20					4	15	30	53:00	
60	3:20					9	15	33	61:00	
65	3:20					13	15	36	68:00	
70	3:00				3	15	15	40	76:40	
75	3:00				7	15	15	44	84:40	
80	3:00				10	15	15	50	93:40	

Table 15-10. *1.3 ata ppO$_2$ N$_2$O$_2$ Decompression Tables (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop 80	70	60	50	40	30	20	Total Ascent Time (M:S)	Repet Group
150 FSW										
17	5:00							0	5:00	H
20	4:20							3	8:00	I
25	4:20							13	18:00	J
30	4:20							22	27:00	K
35	4:00						3	27	34:40	L
40	4:00						8	30	42:40	M
Exceptional Exposure ----------										
45	3:40					4	11	30	49:20	
50	3:40					7	15	30	56:20	
55	3:20				2	11	15	33	65:00	
60	3:20				4	14	15	37	74:00	
65	3:20				8	15	15	40	82:00	
70	3:20				13	15	15	46	93:00	
75	3:00			2	15	15	15	52	102:40	
80	3:00			6	15	15	15	59	113:40	
160 FSW										
Exceptional Exposure ----------										
15	5:20							0	5:20	H
20	4:40							7	12:20	J
25	4:20						1	17	23:00	K
30	4:20						3	25	33:00	L
35	4:00					1	8	28	41:40	M
40	4:00					5	10	30	49:40	
45	3:40				2	7	14	30	57:20	
50	3:40				5	10	15	33	67:20	
55	3:40				8	14	15	36	77:20	
60	3:20			3	10	15	15	41	88:00	
65	3:20			5	13	15	15	48	100:00	
70	3:20			8	15	15	15	55	112:00	
75	3:20			13	15	15	15	61	123:00	
80	3:00		3	15	15	15	15	68	134:40	

1.3 ata ppO_2 N_2O_2 Decompression Tables

Table 15-10. *1.3 ata ppO_2 N_2O_2 Decompression Tables (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop 80	70	60	50	40	30	20	Total Ascent Time (M:S)	Repet Group
170 FSW										
Exceptional Exposure ----------										
13	5:40							0	5:40	H
15	5:00							2	7:40	I
20	5:00							12	17:40	J
25	4:40						3	20	28:20	K
30	4:20					3	5	26	39:00	L
35	4:00				1	5	8	30	48:40	
40	4:00				4	7	12	30	57:40	
45	4:00				8	8	15	32	67:40	
50	3:40			4	7	13	15	36	79:20	
55	3:40			7	9	15	15	41	91:20	
60	3:20		2	7	14	15	15	48	105:00	
180 FSW										
Exceptional Exposure ----------										
12	6:00							0	6:00	H
15	5:20							4	10:00	I
20	5:00						2	14	21:40	K
25	4:40					3	3	23	34:20	L
30	4:20				2	4	7	27	45:00	
35	4:00			1	3	8	9	30	55:40	
40	4:00			2	7	8	14	30	65:40	
45	4:00			6	7	11	15	35	78:40	
50	3:40		2	8	8	15	15	40	92:20	
55	3:40		5	8	12	15	15	49	108:20	
60	3:20	1	7	9	15	15	15	57	123:00	
190 FSW										
Exceptional Exposure ----------										
10	6:20							0	6:20	G
15	5:40							6	12:20	J
20	5:00					1	4	16	26:40	K
25	4:40				2	4	4	24	39:20	L
30	4:20			2	3	5	8	29	52:00	
35	4:20			4	5	8	11	30	63:00	
40	4:00		2	5	8	8	15	34	76:40	
45	4:00		4	8	7	14	15	39	91:40	
50	3:40	1	7	8	11	15	15	47	108:20	
55	3:40	4	8	8	15	15	15	56	125:20	
60	3:40	7	7	13	15	15	15	65	141:20	

1.3 ata ppO_2 HeO_2 Tables

No Decompression Limits and Repetitive Group Designators for 1.3 ata ppO_2 HeO_2 Dives

Depth (fsw)	No-Stop Limit	Repetitive Group Designator															
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Z
10	Unlimited	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
15	Unlimited	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
20	Unlimited	129	269	*													
25	Unlimited	45	72	106	146	200	278	425	*								
30	332	27	43	60	78	100	124	152	185	227	281	332					
35	190	19	30	41	54	67	81	97	114	133	154	178	190				
40	Unlimited	122	246	*													
50	325	27	43	59	78	99	123	150	183	223	276	325					
60	134	15	23	32	41	51	61	71	83	95	108	123	134				
70	86	11	16	22	28	34	41	47	54	61	69	77	85	86			
80	63	8	12	17	21	26	30	35	40	45	51	56	62	63			
90	44	6	10	13	17	20	24	28	32	36	40	44					
100	31	5	8	11	14	17	20	23	26	30	31						
110	24	4	7	9	12	14	17	20	22	24							
120	20	4	6	8	10	13	15	17	19	20							
130	17	3	5	7	9	11	13	15	17								
140	15	3	4	6	8	10	12	13	15								
150	13	3	4	6	7	9	10	12	13								
160	12		3	5	6	8	9	11	12								
170	11		3	4	6	7	9	10	11								
180	10		3	4	5	6	8	9	10								
190	9			4	5	6	7	8	9								
200	8				4	5	7	8									

– Diver does not acquire a repetitive group designator during dives to these depths.
* Highest repetitive group that can be achieved at this depth regardless of bottom time.

Table 15-11. *No Decompression Limits and Repetitive Group Designators for 1.3 ata ppO_2 HeO_2 Dives.*

Residual Helium Timetable for 1.3 ata ppO_2 HeO_2 Dives

Table 15-12. *Residual Helium Timetable for 1.3 ata ppO_2 HeO_2 Dives.*

Locate the diver's repetitive group designation from his previous dive along the diagonal line above the table. Read horizontally to the interval in which the diver's surface interval lies.

Next, read vertically downward to the new repetitive group designation. Continue downward in this same column to the row that represents the depth of the repetitive dive. The time given at the intersection is residual helium time, in minutes, to be applied to the repetitive dive.

* Dives following surface intervals longer than this are not repetitive dives. Use actual bottom times in the Tables 15-11 and 15-13 to compute decompression for such dives.

Repetitive Group at Beginning of Surface Interval

	Z	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A
Z	0:10 0:42															
O	0:10 0:42	0:43 1:25	1:26 2:07	2:08 2:49	2:50 3:32	3:33 4:14	4:15 4:56	4:57 5:39	5:40 6:21	6:22 7:03	7:04 7:46	7:47 8:28	8:29 9:18	9:19 10:29	10:30 12:29 *	
N	0:10 0:42	0:43 1:25	1:26 2:07	2:08 2:49	2:50 3:32	3:33 4:14	4:15 4:56	4:57 5:39	5:40 6:21	6:22 7:03	7:04 7:46	7:47 8:28	8:37 9:46	9:47 11:47 *		
M	0:10 0:42	0:43 1:25	1:26 2:07	2:08 2:49	2:50 3:32	3:33 4:14	4:15 4:56	4:57 5:39	5:40 6:21	6:22 7:03	7:04 7:53	7:54 9:04	9:05 11:05 *			
L	0:10 0:42	0:43 1:25	1:26 2:07	2:08 2:49	2:50 3:32	3:33 4:14	4:15 4:56	4:57 5:39	5:40 6:21	6:22 7:11	7:12 8:22	8:23 10:22 *				
K	0:10 0:42	0:43 1:25	1:26 2:07	2:08 2:49	2:50 3:32	3:33 4:14	4:15 4:56	4:57 5:39	5:40 6:29	6:30 7:39	7:40 9:40 *					
J	0:10 0:42	0:43 1:25	1:26 2:07	2:08 2:49	2:50 3:32	3:33 4:14	4:15 4:56	4:57 5:46	5:47 6:57	6:58 8:58 *						
I	0:10 0:42	0:43 1:25	1:26 2:07	2:08 2:49	2:50 3:32	3:33 4:14	4:15 4:57	5:05 6:15	6:16 8:15 *							
H	0:10 0:42	0:43 1:25	1:26 2:07	2:08 2:49	2:50 3:32	3:33 4:22	4:23 5:32	5:33 7:33 *								
G	0:10 0:42	0:43 1:25	1:26 2:07	2:08 2:49	2:50 3:39	3:40 4:50	4:51 6:51 *									
F	0:10 0:42	0:43 1:25	1:26 2:07	2:08 2:57	2:58 4:08	4:09 6:08 *										
E	0:10 0:42	0:43 1:25	1:26 2:15	2:16 3:25	3:26 5:26 *											
D	0:10 0:42	0:43 1:32	1:33 2:43	2:44 4:44 *												
C	0:10 0:50	0:51 2:00	2:01 4:01 *													
B	0:10 1:10	1:11 3:11 *														
A	0:10 2:01 *															

Dive Depth	Repetitive Group at the End of the Surface Interval															
	Z	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A
10	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
15	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
20	**	**	**	**	**	**	**	**	**	**	**	**	**	**	269	129
25	**	**	**	**	**	**	**	**	**	425	279	201	147	106	73	45
30	†	†	†	†	515	361	281	227	186	152	124	100	79	60	43	28
35	420	338	283	241	207	179	155	133	114	97	82	68	54	42	31	20
40	**	**	**	**	**	**	**	**	**	**	**	**	**	**	240	120
50	†	†	†	†	474	345	272	220	181	149	122	98	78	59	42	27
60	217	194	173	154	137	122	108	95	83	71	61	51	41	32	24	16
70	122	112	102	93	85	77	69	61	54	47	41	34	28	22	17	11
80	86	80	73	68	62	56	51	46	40	36	31	26	22	17	13	9
90	67	62	57	53	49	44	40	36	32	29	25	21	17	14	10	7
100	55	51	47	44	40	37	33	30	27	24	21	18	15	12	9	6
110	46	43	40	37	34	31	29	26	23	20	18	15	13	10	8	5
120	40	37	35	32	30	27	25	23	20	18	16	13	11	9	7	5
130	35	33	31	29	27	24	22	20	18	16	14	12	10	8	6	4
140	32	30	28	26	24	22	20	18	16	14	13	11	9	7	6	4
150	29	27	25	23	22	20	18	17	15	13	12	10	8	7	5	4
160	26	25	23	21	20	18	17	15	14	12	11	9	8	6	5	3
170	24	23	21	20	18	17	15	14	13	11	10	8	7	6	4	3
180	22	21	20	18	17	16	14	13	12	10	9	8	7	5	4	3
190	21	20	18	17	16	15	13	12	11	10	9	7	6	5	4	3
200	20	18	17	16	15	14	13	11	10	9	8	7	6	5	4	3

Residual Helium Time (Minutes)

– Repetitive dives to these depths are equivalent to remaining on the surface. Add the bottom time of the dive to the preceding surface interval. Use the Surface Interval Credit Table (SICT) to determine the repetitive group at the end of the dive.

** Residual Helium Time cannot be determined using this table. See paragraph 9-9.1 subparagraph 8 for guidance. Substitute the ** depths in this table for those in the instructions.

† Read vertically down to the 35 or 60 fsw repetitive dive depth to obtain the RHT. Decompress on the 35 or 60 fsw table.

REPETITIVE DIVE WORKSHEET FOR 1.3 ata ppO_2 HeO_2 DIVES

Part 1. Previous Dive

_____ *minutes*
_____ *feet*
_____ *repetitive group designator from Table 15-11 if the dive was a no-decompression dive, or Table 15-13 if the dive was a decompression dive.*

Part 2. Surface Interval:

Enter the top section of Table 15-12 at the row for the repetitive group designator from Part 1 and move horizontally to the column in which the actual or planned surface interval time lies. Read the final repetitive group designator from the bottom of this column.

_____ *hours* _____ *minutes on the surface*

_____ *final repetitive group from Table 15-12*

Part 3. Equivalent Single Dive Time for the Repetitive Dive:

Enter the bottom section of Table 15-12 at the row for the maximum depth of the planned repetitive dive. Move horizontally to the column of the final repetitive group designator from Part 2 to find the Residual Helium Time (RHT). Add this RHT to the planned bottom time for the repetitive dive to obtain the equivalent single dive time.

_____ *minutes: RHT*

+_____ *minutes: planned bottom time*

=_____ *minutes: equivalent single dive time*

Part 4. Decompression Schedule for the Repetitive Dive:

Locate the row for the depth of the planned repetitive dive in Table 15-11. Move horizontally to the column with bottom time equal to or just greater than the equivalent single dive time and read the surfacing repetitive group for the repetitive dive from the top of the column. If the equivalent single dive time exceeds the no-decompression limit, locate the row for the depth and equivalent single dive time in Table 15-13. Read the required decompression stops and surfacing repetitive group from the columns to the right along this row.

_____ *minutes: equivalent single dive time from Part 3*

_____ *feet: depth of the repetitive dive.*

_____ *Schedule (depth/bottom time) from Table 15-11 or Table 15-13.*

Ensure RHT Exception Rule does not apply.
Verify allowable repet from Table 15-1.

Figure 15-9. Repetitive Dive Worksheet for 1.3 ata ppO_2 HeO_2 Dives.

1.3 ata ppO_2 HeO_2 Decompression Tables

Table 15-13. *1.3 ata ppO_2 HeO_2 Decompression Tables.*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop																Total Ascent Time (M:S)	Repet Group
		170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20		
30 FSW																			
332	1:00																0	1:00	
340	0:20																4	5:00	
360	0:20																13	14:00	
420	0:20																34	35:00	
480	0:20																48	49:00	
540	0:20																59	60:00	
600	0:20																70	71:00	
660	0:20																87	88:00	
720	0:20																101	102:00	
35 FSW																			
190	1:10																0	1:10	L
200	0:30																12	13:10	L
210	0:30																23	24:10	
220	0:30																33	34:10	
230	0:30																42	43:10	
240	0:30																50	51:10	
270	0:30																71	72:10	
300	0:30																89	90:10	
330	0:30																103	104:10	
360	0:30																115	116:10	
390	0:30																126	127:10	
420	0:30																145	146:10	
450	0:30																162	163:10	
480	0:30																177	178:10	
50 FSW																			
325	1:40																0	1:40	K
330	1:00																1	2:40	K
340	1:00																2	3:40	K
350	1:00																3	4:40	K
360	1:00																5	6:40	K
420	1:00																11	12:40	
480	1:00																15	16:40	
540	1:00																18	19:40	
600	1:00																21	22:40	
660	1:00																25	26:40	
720	1:00																29	30:40	

1.3 ata ppO_2 HeO_2 Decompression Tables

Table 15-13. *1.3 ata ppO_2 HeO_2 Decompression Tables (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop																Total Ascent Time (M:S)	Repet Group
		170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20		
60 FSW																			
134	2:00																0	2:00	L
140	1:20																3	5:00	L
150	1:20																8	10:00	L
160	1:20																12	14:00	L
170	1:20																16	18:00	L
180	1:20																20	22:00	
190	1:20																24	26:00	
200	1:20																27	29:00	
210	1:20																31	33:00	
220	1:20																34	36:00	
230	1:20																37	39:00	
240	1:20																40	42:00	
250	1:20																42	44:00	
260	1:20																45	47:00	
270	1:20																47	49:00	
280	1:20																49	51:00	
290	1:20																51	53:00	
300	1:20																53	55:00	
310	1:20																55	57:00	
320	1:20																57	59:00	
330	1:20																59	61:00	
340	1:20																61	63:00	
350	1:20																64	66:00	
360	1:20																66	68:00	
70 FSW																			
86	2:20																0	2:20	M
90	1:40																3	5:20	M
95	1:40																8	10:20	
100	1:40																12	14:20	
110	1:40																19	21:20	
120	1:40																26	28:20	
130	1:40																33	35:20	
140	1:40																39	41:20	
150	1:40																45	47:20	
160	1:40																50	52:20	
170	1:40																55	57:20	
180	1:40																60	62:20	
190	1:40																64	66:20	
200	1:40																68	70:20	
210	1:40																72	74:20	
220	1:40																76	78:20	

1.3 ata ppO_2 HeO_2 Decompression Tables

Table 15-13. *1.3 ata ppO_2 HeO_2 Decompression Tables (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop															Total Ascent Time (M:S)	Repet Group
		170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	
80 FSW																		
63	2:40																0	2:40	M
65	2:00																2	4:40	M
70	2:00																8	10:40	
75	2:00																14	16:40	
80	2:00																19	21:40	
85	2:00																24	26:40	
90	2:00																29	31:40	
95	2:00																34	36:40	
100	2:00																39	41:40	
110	2:00																48	50:40	
120	2:00																56	58:40	
130	2:00																63	65:40	
140	2:00																70	72:40	
150	2:00																76	78:40	
160	2:00																82	84:40	
170	2:00																88	90:40	
180	2:00																93	95:40	
190	2:00																98	100:40	
90 FSW																		
44	3:00																0	3:00	K
45	2:20																1	4:00	K
50	2:20																2	5:00	L
55	2:20																7	10:00	M
60	2:20																15	18:00	
65	2:20																22	25:00	
70	2:20																29	32:00	
75	2:20																35	38:00	
80	2:20																41	44:00	
85	2:20																47	50:00	
90	2:20																53	56:00	
95	2:20																58	61:00	
100	2:20																63	66:00	
110	2:20																73	76:00	
120	2:20																82	85:00	
130	2:20																90	93:00	
140	2:20																97	100:00	
150	2:20																105	108:00	
160	2:20																112	115:00	

1.3 ata ppO_2 HeO_2 Decompression Tables

Table 15-13. *1.3 ata ppO_2 HeO_2 Decompression Tables (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop 170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	Total Ascent Time (M:S)	Repet Group
100 FSW																			
31	3:20																0	3:20	J
35	2:40																2	5:20	K
40	2:40																4	7:20	L
45	2:40																6	9:20	M
50	2:40																16	19:20	
55	2:40																24	27:20	
60	2:40																33	36:20	
65	2:40																41	44:20	
70	2:40																48	51:20	
75	2:40																55	58:20	
80	2:40																62	65:20	
85	2:40																68	71:20	
90	2:40																74	77:20	
95	2:40																80	83:20	
100	2:40																85	88:20	
110	2:40																96	99:20	
120	2:40																105	108:20	
130	2:20															1	114	118:00	
140	2:20															1	124	128:00	
110 FSW																			
24	3:40																0	3:40	I
25	3:00																1	4:40	I
30	3:00																4	7:40	J
35	3:00																7	10:40	L
40	3:00																10	13:40	M
45	3:00																21	24:40	
50	3:00																31	34:40	
55	3:00																40	43:40	
60	2:40															1	49	53:20	
65	2:40															2	57	62:20	
70	2:40															3	64	70:20	
75	2:40															4	71	78:20	
80	2:40															5	77	85:20	
85	2:40															5	84	92:20	
90	2:40															6	89	98:20	
95	2:40															6	95	104:20	
100	2:40															6	101	110:20	
110	2:40															7	112	122:20	
EXCEPTIONAL EXPOSURE ----------																			
120	2:40															7	123	133:20	
130	2:40															7	136	146:20	
140	2:20														1	7	149	160:00	

1.3 ata ppO_2 HeO_2 Decompression Tables

Table 15-13. *1.3 ata ppO_2 HeO_2 Decompression Tables (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop 170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	Total Ascent Time (M:S)	Repet Group
120 FSW																			
20	4:00																0	4:00	I
25	3:20																4	8:00	J
30	3:20																8	12:00	K
35	3:20																12	16:00	M
40	3:20																23	27:00	
45	3:00															2	34	39:40	
50	3:00															4	43	50:40	
55	3:00															6	52	61:40	
60	3:00															7	60	70:40	
65	2:40														2	7	68	80:20	
70	2:40														3	7	76	89:20	
75	2:40														3	8	83	97:20	
80	2:40														4	7	91	105:20	
85	2:40														5	7	97	112:20	
90	2:40														5	8	103	119:20	
95	2:40														6	7	110	126:20	
EXCEPTIONAL EXPOSURE ----------																			
100	2:40														6	7	117	133:20	
110	2:40														7	7	131	148:20	
120	2:40														7	7	145	162:20	
130 FSW																			
17	4:20																0	4:20	H
20	3:40																3	7:20	I
25	3:40																8	12:20	K
30	3:40																13	17:20	L
35	3:20															2	21	27:00	L
40	3:20															5	32	41:00	L
45	3:00														1	7	43	54:40	L
50	3:00														3	7	53	66:40	
55	3:00														5	7	63	78:40	
60	3:00														6	8	71	88:40	
65	2:40													1	7	7	81	99:20	
70	2:40													2	7	7	89	108:20	
75	2:40													3	7	7	97	117:20	
80	2:40													3	8	7	104	125:20	
85	2:40													4	8	7	111	133:20	
EXCEPTIONAL EXPOSURE ----------																			
90	2:40													5	7	7	119	141:20	
95	2:40													5	8	7	127	150:20	
100	2:40													6	7	7	136	159:20	
110	2:40													6	8	7	152	176:20	
120	2:40													7	7	18	159	194:20	

1.3 ata ppO_2 HeO_2 Decompression Tables

Table 15-13. *1.3 ata ppO_2 HeO_2 Decompression Tables (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop 170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	Total Ascent Time (M:S)	Repet Group
140 FSW																			
15	4:40																0	4:40	H
20	4:00																7	11:40	J
25	4:00																12	16:40	K
30	3:40															3	16	23:20	M
35	3:40															7	29	40:20	
40	3:20														3	7	42	56:00	
45	3:20														6	7	53	70:00	
50	3:00													1	8	7	64	83:40	
55	3:00													3	8	7	74	95:40	
60	3:00													5	8	7	84	107:40	
65	3:00													7	7	7	93	117:40	
70	2:40												1	7	8	7	101	127:20	
75	2:40												2	7	8	7	110	137:20	
EXCEPTIONAL EXPOSURE ----------																			
80	2:40												3	7	8	7	118	146:20	
85	2:40												4	7	7	8	127	156:20	
90	2:40												4	8	7	7	137	166:20	
95	2:40												5	7	7	8	146	176:20	
100	2:40												5	8	7	8	155	186:20	
150 FSW																			
13	5:00																0	5:00	H
15	4:20																3	8:00	H
20	4:20																10	15:00	J
25	4:00															2	14	20:40	L
30	4:00															7	24	35:40	L
35	3:40														4	8	37	53:20	L
40	3:20													1	7	8	50	70:00	
45	3:20													4	8	7	63	86:00	
50	3:20													7	7	8	74	100:00	
55	3:00												2	8	7	7	86	113:40	
60	3:00												4	8	7	7	96	125:40	
65	3:00												6	7	7	8	105	136:40	
70	3:00												7	7	8	7	114	146:40	
EXCEPTIONAL EXPOSURE ----------																			
75	2:40											1	8	7	7	8	124	158:20	
80	2:40											2	8	7	7	8	135	170:20	
85	2:40											3	7	8	7	7	146	181:20	
90	2:40											4	7	7	8	9	155	193:20	

1.3 ata ppO_2 HeO_2 Decompression Tables

Table 15-13. *1.3 ata ppO_2 HeO_2 Decompression Tables (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop 170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	Total Ascent Time (M:S)	Repet Group
160 FSW																			
12	5:20																0	5:20	H
15	4:40																5	10:20	I
20	4:40																13	18:20	K
25	4:20															6	16	27:00	M
30	4:00														4	8	31	47:40	
35	3:40													2	7	8	46	67:20	
40	3:40													6	8	7	60	85:20	
45	3:20												3	7	7	8	73	102:00	
50	3:20												6	7	7	8	85	117:00	
55	3:00											1	7	8	7	7	97	130:40	
60	3:00											3	7	8	7	8	107	143:40	
EXCEPTIONAL EXPOSURE ----------																			
65	3:00											5	7	8	7	7	118	155:40	
70	3:00											6	8	7	7	8	130	169:40	
75	3:00											8	7	7	8	7	142	182:40	
80	2:40										2	7	7	8	7	7	154	195:20	
85	2:40										2	8	7	8	7	16	158	209:20	
90	2:40										3	8	7	7	8	25	161	222:20	
170 FSW																			
11	5:40																0	5:40	H
15	5:00																8	13:40	I
20	4:40															2	15	22:20	K
25	4:20														2	8	22	37:00	L
30	4:00													2	7	7	39	59:40	L
35	4:00													7	7	8	55	81:40	
40	3:40												4	8	7	7	70	100:20	
45	3:20											1	7	8	7	7	84	118:00	
50	3:20											4	7	8	7	8	96	134:00	
55	3:20											7	7	7	8	7	108	148:00	
EXCEPTIONAL EXPOSURE ----------																			
60	3:00										2	7	8	7	7	8	120	162:40	
65	3:00										4	7	8	7	7	8	134	178:40	
70	3:00										5	8	7	8	7	7	148	193:40	
75	3:00										7	7	8	7	7	12	157	208:40	
80	2:40									1	7	8	7	7	8	22	160	223:20	

Table 15-13. *1.3 ata ppO_2 HeO_2 Decompression Tables (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop 170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	Total Ascent Time (M:S)	Repet Group
180 FSW																			
10	6:00																0	6:00	H
15	5:20																11	17:00	J
20	5:00															6	14	25:40	L
25	4:40														6	8	29	48:20	L
30	4:20													6	7	8	47	73:00	
35	4:00												4	8	7	8	64	95:40	
40	3:40											2	8	7	7	8	80	116:20	
45	3:40											6	8	7	7	8	94	134:20	
50	3:20										3	7	7	8	7	7	108	151:00	
EXCEPTIONAL EXPOSURE ----------																			
55	3:20										5	8	7	8	7	7	121	167:00	
60	3:00									1	7	8	7	7	8	7	136	184:40	
65	3:00									3	7	8	7	7	8	7	151	201:40	
70	3:00									5	7	7	8	7	7	16	158	218:40	
190 FSW																			
9	6:20																0	6:20	H
10	5:40																2	8:20	H
15	5:40																14	20:20	J
20	4:40													1	1	8	16	31:20	M
25	3:20									1	0	0	0	4	7	7	38	61:00	
30	3:00								1	0	0	2	2	7	7	8	57	87:40	
35	2:40							1	0	0	2	0	8	7	8	7	75	111:20	
40	2:20						1	0	0	0	2	6	8	7	7	8	91	133:00	
45	2:20						1	0	0	0	5	7	8	7	7	8	105	151:00	
50	2:20						1	0	0	0	8	8	7	8	7	7	120	169:00	
EXCEPTIONAL EXPOSURE ----------																			
55	2:20						1	0	0	4	8	7	7	8	7	7	138	190:00	
60	2:20						1	0	0	7	7	8	7	7	8	7	153	208:00	
65	2:20						1	0	2	7	7	8	7	7	8	19	159	228:00	
70	2:20						1	0	3	8	7	8	7	7	8	31	164	247:00	

1.3 ata ppO_2 HeO_2 Decompression Tables

Table 15-13. *1.3 ata ppO_2 HeO_2 Decompression Tables (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop																Total Ascent Time (M:S)	Repet Group
		170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20		
200 FSW																			
8	6:40																0	6:40	G
10	6:00																5	11:40	H
15	5:20														1	1	15	23:00	K
20	3:20								1	0	0	2	0	0	5	7	25	44:00	L
25	2:00				1	0	0	0	2	0	1	0	1	7	7	7	47	75:40	L
30	1:20		1	0	0	2	0	0	0	2	0	1	7	7	8	7	69	106:00	
35	1:20		1	0	1	1	0	0	2	0	0	7	7	7	8	7	87	130:00	
40	1:00	1	0	1	1	0	0	2	0	0	5	8	7	7	8	7	104	152:40	
45	1:00	1	0	1	1	0	0	2	0	2	7	8	7	8	7	7	120	172:40	
EXCEPTIONAL EXPOSURE ----------																			
50	1:00	1	0	1	1	0	1	0	1	6	7	7	8	7	8	7	139	195:40	
55	1:00	1	0	1	1	0	1	0	2	8	7	7	8	7	8	8	155	215:40	
60	1:00	1	0	1	1	0	1	0	5	7	8	7	7	8	7	22	161	237:40	
210 FSW																			
5	7:00																0	7:00	
10	6:20																5	12:00	
15	6:00															7	5	18:40	
20	5:00												5	3	2	2	28	45:40	
25	4:20										3	3	3	2	3	3	57	79:00	
30	4:20										6	3	2	2	6	12	76	112:00	
35	3:40								3	3	3	2	3	5	12	12	95	142:20	
40	3:20							3	2	3	2	3	5	12	11	12	113	170:00	
EXCEPTIONAL EXPOSURE ----------																			
45	3:20							4	2	3	2	4	11	12	12	11	131	196:00	
50	3:20							4	3	2	3	10	11	12	12	11	149	221:00	
55	3:00						3	2	3	2	7	11	11	12	11	12	165	242:40	
60	3:20							5	3	2	11	12	11	11	12	21	173	265:00	

1.3 ata ppO_2 HeO_2 Decompression Tables

Table 15-13. *1.3 ata ppO_2 HeO_2 Decompression Tables (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop																Total Ascent Time (M:S)	Repet Group
		170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20		
220 FSW																			
5	7:20																0	7:20	
10	6:40																5	12:20	
15	5:40													4	3	2	6	21:20	
20	5:00											4	3	2	3	2	37	56:40	
25	5:00											7	3	3	2	8	65	93:40	
30	4:00								3	3	2	3	3	3	10	12	84	127:40	
35	4:20									8	2	3	2	12	12	11	106	161:00	
40	4:20									9	3	2	12	11	12	11	126	191:00	
EXCEPTIONAL EXPOSURE ----------																			
45	3:40							6	2	3	2	10	12	11	12	11	144	217:20	
50	4:00								8	3	8	11	12	11	11	12	164	244:40	
55	4:00								9	4	12	11	12	11	11	18	177	269:40	
230 FSW																			
5	7:40																0	7:40	
10	7:00																6	13:40	
15	6:00													5	3	2	9	25:40	
20	5:00										3	3	2	3	3	2	46	67:40	
25	4:40									5	2	3	3	2	3	12	71	106:20	
30	4:00							3	3	2	3	2	3	6	12	12	93	143:40	
35	4:00							5	3	2	3	2	8	12	12	11	116	178:40	
EXCEPTIONAL EXPOSURE ----------																			
40	3:20					2	3	2	3	2	3	8	12	11	12	11	137	210:00	
45	4:00							8	2	3	7	12	11	11	12	11	159	240:40	
50	3:20					4	3	2	3	5	11	13	11	11	11	16	174	268:00	
55	3:00				2	3	2	4	2	12	11	11	11	11	11	38	172	293:40	
240 FSW																			
5	8:00																0	8:00	
10	7:20																8	16:00	
15	6:00												4	3	2	4	15	34:40	
20	5:20										5	2	3	2	3	3	54	78:00	
25	5:20										9	3	2	2	8	12	80	122:00	
30	4:20							5	3	2	2	3	3	11	12	12	103	161:00	
35	4:20							7	3	2	3	4	12	11	12	12	127	198:00	
EXCEPTIONAL EXPOSURE ----------																			
40	4:20							8	3	3	4	12	12	11	12	12	150	232:00	
45	4:20							10	2	4	12	12	11	12	11	12	173	264:00	
50	3:40					6	3	2	3	12	11	11	12	11	11	32	174	292:20	

1.3 ata ppO_2 HeO_2 Decompression Tables

Table 15-13. *1.3 ata ppO_2 HeO_2 Decompression Tables (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop																Total Ascent Time (M:S)	Repet Group
		170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20		
250 FSW																			
5	8:20																0	8:20	
10	7:40																9	17:20	
15	6:20												5	3	3	2	24	44:00	
20	5:40										6	3	2	3	3	6	61	90:20	
25	5:00								6	3	2	2	3	3	12	12	87	135:40	
30	4:20						4	3	3	2	3	2	8	11	12	12	112	177:00	
EXCEPTIONAL EXPOSURE ----------																			
35	4:40							9	2	3	2	10	12	12	11	12	139	217:20	
40	4:20						8	3	2	3	11	12	11	11	12	11	164	253:00	
45	4:00					7	3	3	2	11	11	12	11	11	12	25	175	287:40	
50	3:40				6	2	3	3	9	12	11	11	12	11	11	49	175	319:20	
260 FSW																			
5	8:40																0	8:40	
10	8:00																11	19:40	
15	6:20											4	3	3	2	3	31	53:00	
20	5:40									5	3	3	2	3	3	10	67	102:20	
25	5:20								8	3	2	2	3	7	13	12	96	152:00	
30	4:40						6	3	2	3	2	3	12	12	13	11	123	195:20	
EXCEPTIONAL EXPOSURE ----------																			
35	4:40						8	3	3	2	6	12	12	11	12	11	151	236:20	
40	4:20					8	3	2	3	7	12	12	11	11	12	14	175	275:00	
45	4:00				7	3	2	3	8	12	11	11	11	12	11	42	173	310:40	
270 FSW																			
5	8:20																5	14:00	
10	8:20																13	22:00	
15	6:20										3	3	3	2	3	3	39	63:00	
20	6:20										9	3	2	3	5	12	75	116:00	
25	5:40								9	3	2	3	3	12	11	12	105	166:20	
EXCEPTIONAL EXPOSURE ----------																			
30	5:00						8	3	2	3	2	9	11	12	11	12	134	212:40	
35	4:40					8	3	2	3	3	11	12	12	11	11	12	163	256:20	
40	4:20				8	3	3	1	5	12	12	11	11	11	12	30	174	298:00	
45	4:20				9	3	2	5	12	13	10	11	11	12	11	56	176	336:00	

1.3 ata ppO_2 HeO_2 Decompression Tables

Table 15-13. *1.3 ata ppO_2 HeO_2 Decompression Tables (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop																Total Ascent Time (M:S)	Repet Group
		170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20		
280 FSW																			
5	8:40																5	14:20	
10	8:40																14	23:20	
15	7:00											7	3	2	3	3	47	72:40	
20	6:20									9	2	3	2	3	9	12	82	129:00	
25	5:20						6	3	3	2	3	2	7	12	12	12	114	182:00	
EXCEPTIONAL EXPOSURE ----------																			
30	5:20						10	3	2	3	3	12	12	11	12	12	145	231:00	
35	4:40				8	2	3	2	3	8	12	12	11	11	11	13	176	277:20	
40	4:40				10	2	3	2	11	12	11	12	12	10	12	45	174	321:20	
45	4:40				11	3	3	11	11	12	11	11	11	12	11	72	178	362:20	
290 FSW																			
5	9:00																5	14:40	
10	8:00													4	4	2	6	24:40	
15	7:00										6	3	2	3	3	2	55	81:40	
20	6:20								8	2	3	2	3	4	12	12	88	141:00	
25	5:40						8	3	2	3	3	2	12	12	11	12	122	196:20	
EXCEPTIONAL EXPOSURE ----------																			
30	5:00				7	3	2	3	3	2	9	12	12	11	11	12	156	248:40	
35	5:00				10	2	3	2	5	12	11	12	11	11	12	28	176	300:40	
40	5:00				12	2	3	7	12	11	12	11	11	11	12	59	177	345:40	
45	5:00				13	3	9	11	12	11	11	11	11	11	18	82	180	388:40	
300 FSW																			
5	9:20																5	15:00	
10	8:20													6	3	2	9	29:00	
15	7:00									5	3	2	3	2	3	5	61	91:40	
20	6:20							7	3	2	3	2	4	6	12	12	96	154:00	
25	5:20				5	3	2	3	3	2	3	7	12	11	12	11	132	212:00	
EXCEPTIONAL EXPOSURE ----------																			
30	5:20				9	3	2	3	2	5	12	12	11	11	12	12	169	269:00	
35	5:20				12	2	3	2	10	12	11	12	11	11	12	41	176	321:00	
40	5:20				14	2	4	12	12	11	11	12	11	11	11	74	180	371:00	

1.3 ata ppO_2 HeO_2 Decompression Tables

Table 15-13. *1.3 ata ppO_2 HeO_2 Decompression Tables (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop																Total Ascent Time (M:S)	Repet Group
		170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20		
310 FSW																			
EXCEPTIONAL EXPOSURE ----------																			
10	8:20												5	2	3	3	14	36:00	
15	7:20									6	3	3	2	3	2	9	66	102:00	
20	6:20						6	3	2	3	2	3	3	12	11	12	103	167:00	
25	6:00					9	3	2	3	3	2	12	11	12	12	11	142	228:40	
30	5:40				11	3	2	2	3	10	12	11	11	12	12	17	176	288:20	
35	5:40				14	2	3	6	12	11	12	11	11	11	12	55	178	344:20	
40	5:40				16	2	10	12	11	12	11	11	11	11	19	83	182	397:20	
320 FSW																			
EXCEPTIONAL EXPOSURE ----------																			
10	8:20											4	2	3	3	2	21	44:00	
15	7:40									8	3	2	3	2	3	12	71	112:20	
20	6:20					6	2	3	2	3	2	4	5	12	12	12	111	181:00	
25	6:20					11	3	2	2	3	7	12	11	12	11	12	153	246:00	
30	6:00				13	2	3	2	6	12	11	12	11	11	12	30	177	308:40	
35	6:00				15	3	3	11	12	11	12	11	11	11	12	68	182	368:40	
40	6:00				18	7	11	12	11	11	11	12	11	11	35	83	185	424:40	

0.75 ata ppO_2 N_2O_2 Tables

No-Decompression Limits and Repetitive Group Designation Table for 0.75 ata ppO_2 N_2O_2 Dives

Table 15-14. *No-Decompression Limits and Repetitive Group Designation Table for 0.75 ata Constant ppO_2 N_2O_2 Dives.*

Depth (fsw)	No-Stop Limit	Repetitive Group Designator															
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	Z
10	Unlimited	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
15	Unlimited	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
20	Unlimited	154	425	*													
30	Unlimited	31	50	73	98	128	165	211	274	375	643	*					
40	369	17	27	38	50	63	76	91	107	125	144	167	192	223	259	305	369
50	143	12	19	26	33	41	50	59	68	78	88	99	111	123	137	143	
60	74	9	14	19	25	31	37	43	50	56	63	71	74				
70	51	7	11	15	20	25	29	34	39	44	50	51					
80	40	6	9	13	16	20	24	28	32	36	40						
90	32	5	8	11	14	17	20	24	27	31	32						
100	27	4	7	9	12	15	18	21	24	27							
110	23	3	6	8	11	13	16	18	21	23							
120	20	3	5	7	9	12	14	16	18	20							
130	16		4	6	8	10	12	14	16								
140	14		4	6	7	9	11	13	14								
150	11		3	5	7	8	10	11									
Exceptional Exposure ----------																	
160	10		3	4	6	8	9	10									
170	9		3	4	5	7	8	9									

– Diver does not acquire a repetitive group designator during dives to these depths.

* Highest repetitive group that can be achieved at this depth regardless of bottom time.

Residual Nitrogen Timetable for Repetitive 0.75 ata ppO_2 N_2O_2 Dives

Table 15-15. *Residual Nitrogen Timetable for Repetitive 0.75 ata Constant ppO_2 N_2O_2 Dives.*

Locate the diver's repetitive group designation from his previous dive along the diagonal line above the table. Read horizontally to the interval in which the diver's surface interval lies.

Next, read vertically downward to the new repetitive group designation. Continue downward in this same column to the row that represents the depth of the repetitive dive. The time given at the intersection is residual nitrogen time, in minutes, to be applied to the repetitive dive.

* Dives following surface intervals longer than this are not repetitive dives. Use actual bottom times in the Tables 15-14 and 15-16 to compute decompression for such dives.

Repetitive Group at Beginning of Surface Interval

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

Repetitive Group at the End of the Surface Interval

Dive Depth	Z	O	N	M	L	K	J	I	H	G	F	E	D	C	B	A
10	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
15	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
20	**	**	**	**	**	**	**	**	**	**	**	**	**	**	420	153
30	**	**	**	**	**	**	626	372	273	211	165	129	99	73	51	31
40	365	303	258	222	192	167	144	125	107	91	77	63	51	39	28	18
50	167	151	137	123	111	99	88	78	68	59	50	42	34	27	19	12
60	113	104	95	87	79	71	64	57	50	44	38	32	26	20	15	10
70	86	79	73	67	61	56	50	45	40	35	30	25	21	16	12	8
80	69	64	60	55	50	46	41	37	33	29	25	21	18	14	10	7
90	58	54	50	46	43	39	35	32	28	25	22	18	15	12	9	6
100	50	47	44	40	37	34	31	28	25	22	19	16	13	11	8	5
110	44	41	38	36	33	30	27	25	22	19	17	14	12	9	7	5
120	39	37	34	32	29	27	25	22	20	18	15	13	11	9	6	4
130	36	33	31	29	27	24	22	20	18	16	14	12	10	8	6	4
140	33	30	28	26	24	22	20	18	17	15	13	11	9	7	5	4
150	30	28	26	24	22	21	19	17	15	14	12	10	8	7	5	3
160	28	26	24	23	21	19	18	16	14	13	11	9	8	6	5	3
170	26	24	23	21	19	18	16	15	13	12	10	9	7	6	4	3

Residual Nitrogen Times (Minutes)

– Repetitive dives to these depths are equivalent to remaining on the surface. Add the bottom time of the dive to the preceding surface interval. Use the Surface Interval Credit Table (SICT) to determine the repetitive group at the end of the dive.

** Residual Nitrogen Time cannot be determined using this table. See paragraph 9-9.1 subparagraph 8 for guidance. Substitute the ** depths in this table for those in the instructions.

REPETITIVE DIVE WORKSHEET FOR 0.75 ata ppO_2 N_2O_2 DIVES

Part 1. Previous Dive

_____ *minutes*
_____ *feet*
_____ *repetitive group designator from Table 15-14 if the dive was a no-decompression dive, or Table 15-16 if the dive was a decompression dive.*

Part 2. Surface Interval:

Enter the top section of Table 15-15 at the row for the repetitive group designator from Part 1 and move horizontally to the column in which the actual or planned surface interval time lies. Read the final repetitive group designator from the bottom of this column.

_____ *hours* _____ *minutes on the surface*

_____ *final repetitive group from Table 15-15*

Part 3. Equivalent Single Dive Time for the Repetitive Dive:

Enter the bottom section of Table 15-15 at the row for the maximum depth of the planned repetitive dive. Move horizontally to the column of the final repetitive group designator from Part 2 to find the Residual Nitrogen Time (RNT). Add this RNT to the planned bottom time for the repetitive dive to obtain the equivalent single dive time.

_____ *minutes: RNT*

+_____ *minutes: planned bottom time*

=_____ *minutes: equivalent single dive time*

Part 4. Decompression Schedule for the Repetitive Dive:

Locate the row for the depth of the planned repetitive dive in Table 15-14. Move horizontally to the column with bottom time equal to or just greater than the equivalent single dive time and read the surfacing repetitive group for the repetitive dive from the top of the column. If the equivalent single dive time exceeds the no-decompression limit, locate the row for the depth and equivalent single dive time in Table 15-16. Read the required decompression stops and surfacing repetitive group from the columns to the right along this row.

_____ *minutes: equivalent single dive time from Part 3*

_____ *feet: depth of the repetitive dive.*

_____ *Schedule (depth/bottom time) from Table 15-14 or Table 15-16.*

Ensure RNT Exception Rule does not apply.
Verify allowable repet from Table 15-1.

Figure 15-10. Dive Worksheet for Repetitive 0.75 ata ppO_2 N_2O_2 Dives.

Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata ppO_2 N_2O_2

Table 15-16. *Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata ppO_2 N_2O_2*
(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first stop 80	70	60	50	40	30	20	10	Total Ascent Time (M:S)	Repet Group
40 FSW											
369	1:20								0	1:20	Z
370	1:00								1	2:20	Z
380	1:00								2	3:20	Z
390	1:00								3	4:20	Z
50 FSW											
143	1:40								0	1:40	O
150	1:20								3	4:40	O
160	1:20								8	9:40	O
170	1:20								12	13:40	O
180	1:20								15	16:40	Z
190	1:20								19	20:40	Z
200	1:20								22	23:40	Z
210	1:20								25	26:40	Z
220	1:20								29	30:40	Z
230	1:20								33	34:40	Z
240	1:20								37	38:40	Z
250	1:20								42	43:40	Z
260	1:20								45	46:40	Z
270	1:20								49	50:40	Z
280	1:20								52	53:40	Z
290	1:20								56	57:40	Z
300	1:20								59	60:40	Z
310	1:20								61	62:40	Z
320	1:20								64	65:40	Z
330	1:20								67	68:40	Z
Exceptional Exposure ----------											
340	1:20								69	70:40	
350	1:20								73	74:40	
360	1:20								77	78:40	
370	1:20								80	81:40	
380	1:20								83	84:40	
390	1:20								87	88:40	

Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata ppO_2 N_2O_2

Table 15-16. *Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata ppO_2 N_2O_2 (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first stop 80	70	60	50	40	30	20	10	Total Ascent Time (M:S)	Repet Group
60 FSW											
74	2:00								0	2:00	L
75	1:40								1	3:00	L
80	1:40								3	5:00	L
90	1:40								8	10:00	M
100	1:40								12	14:00	N
110	1:40								16	18:00	O
120	1:40								24	26:00	O
130	1:40								32	34:00	O
140	1:40								38	40:00	Z
150	1:40								44	46:00	Z
160	1:40								50	52:00	Z
170	1:40								55	57:00	Z
180	1:20							3	60	64:40	Z
190	1:20							8	62	71:40	Z
200	1:20							12	65	78:40	Z
210	1:20							15	69	85:40	Z
220	1:20							19	71	91:40	Z
230	1:20							22	74	97:40	Z
240	1:20							25	76	102:40	Z
250	1:20							27	80	108:40	Z
Exceptional Exposure ----------											
260	1:20							30	82	113:40	
270	1:20							32	85	118:40	
280	1:20							35	88	124:40	
290	1:20							40	90	131:40	
300	1:20							43	93	137:40	
310	1:20							47	94	142:40	
320	1:20							51	96	148:40	
330	1:20							54	98	153:40	
340	1:20							57	100	158:40	
350	1:20							60	102	163:40	
360	1:20							63	105	169:40	
370	1:20							65	109	175:40	
380	1:20							68	112	181:40	
390	1:20							70	115	186:40	

Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata ppO_2 N_2O_2

Table 15-16. *Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata ppO_2 N_2O_2 (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first stop 80	70	60	50	40	30	20	10	Total Ascent Time (M:S)	Repet Group
70 FSW											
51	2:20								0	2:20	K
55	2:00								4	6:20	K
60	2:00								9	11:20	K
70	2:00								17	19:20	L
80	2:00								24	26:20	M
90	1:40							2	29	33:00	N
100	1:40							7	34	43:00	O
110	1:40							12	39	53:00	O
120	1:40							15	46	63:00	O
130	1:40							18	52	72:00	Z
140	1:40							21	57	80:00	Z
150	1:40							29	58	89:00	Z
160	1:40							36	62	100:00	Z
170	1:40							42	66	110:00	Z
180	1:40							48	70	120:00	Z
Exceptional Exposure ----------											
190	1:20						1	53	73	128:40	
200	1:20						2	57	77	137:40	
210	1:20						6	57	81	145:40	
220	1:20						10	57	84	152:40	
230	1:20						14	59	87	161:40	
240	1:20						18	62	89	170:40	
250	1:20						21	66	91	179:40	
260	1:20						24	69	94	188:40	
270	1:20						26	72	97	196:40	
280	1:20						29	75	99	204:40	
290	1:20						31	78	102	212:40	
300	1:20						33	81	105	220:40	
310	1:20						35	83	110	229:40	
320	1:20						37	86	113	237:40	
330	1:20						41	86	118	246:40	
340	1:20						45	86	124	256:40	
350	1:20						49	88	127	265:40	

Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata ppO_2 N_2O_2

Table 15-16. *Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata ppO_2 N_2O_2 (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first stop								Total Ascent Time (M:S)	Repet Group
		80	70	60	50	40	30	20	10		
80 FSW											
40	2:40								0	2:40	J
45	2:20								8	10:40	K
50	2:20								15	17:40	K
55	2:20								21	23:40	L
60	2:20								27	29:40	L
70	2:00							9	28	39:20	M
80	2:00							17	29	48:20	N
90	2:00							24	36	62:20	O
100	1:40						2	29	43	76:00	O
110	1:40						7	29	50	88:00	Z
120	1:40						12	29	57	100:00	Z
Exceptional Exposure ----------											
130	1:40						15	37	58	112:00	
140	1:40						18	43	62	125:00	
150	1:40						21	49	67	139:00	
160	1:40						23	56	70	151:00	
170	1:40						29	57	75	163:00	
180	1:40						36	57	80	175:00	
190	1:40						42	57	85	186:00	
200	1:20					1	48	60	86	196:40	
210	1:20					2	52	64	90	209:40	
220	1:20					2	57	68	93	221:40	
230	1:20					6	57	73	96	233:40	
240	1:20					10	57	77	100	245:40	
250	1:20					14	57	81	104	257:40	
260	1:20					18	56	85	110	270:40	
270	1:20					21	59	86	116	283:40	
280	1:20					24	63	85	124	297:40	
290	1:20					26	67	86	129	309:40	
300	1:20					29	70	88	134	322:40	
310	1:20					31	73	92	137	334:40	
320	1:20					33	76	95	141	346:40	

Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata ppO_2 N_2O_2

Table 15-16. *Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata ppO_2 N_2O_2 (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first stop								Total Ascent Time (M:S)	Repet Group
		80	70	60	50	40	30	20	10		
90 FSW											
32	3:00								0	3:00	J
35	2:40								5	8:00	J
40	2:40								14	17:00	K
45	2:40								23	26:00	K
50	2:20							3	28	33:40	L
55	2:20							10	28	40:40	L
60	2:20							17	28	47:40	M
70	2:20							28	29	59:40	N
80	2:00						10	29	34	75:20	O
90	2:00						18	29	44	93:20	Z
Exceptional Exposure ----------											
100	2:00						25	29	52	108:20	
110	1:40					3	29	33	56	123:00	
120	1:40					8	29	41	62	142:00	
130	1:40					12	29	49	67	159:00	
140	1:40					16	29	56	73	176:00	
150	1:40					19	36	57	76	190:00	
160	1:40					21	43	57	81	204:00	
170	1:40					23	50	57	89	221:00	
180	1:40					25	56	62	91	236:00	
190	1:40					31	57	67	95	252:00	
100 FSW											
27	3:20								0	3:20	I
30	3:00								6	9:20	J
35	3:00								18	21:20	J
40	3:00								28	31:20	K
45	2:40							10	28	41:00	L
50	2:40							19	28	50:00	M
55	2:40							27	29	59:00	M
60	2:20						7	28	28	65:40	N
65	2:20						14	28	28	72:40	O
Exceptional Exposure ----------											
70	2:20						20	28	32	82:40	
75	2:20						26	28	37	93:40	
80	2:00					3	28	29	42	104:20	
90	2:00					12	29	28	53	124:20	
100	2:00					20	29	34	61	146:20	
110	2:00					27	28	44	66	167:20	

Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata ppO_2 N_2O_2

Table 15-16. *Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata ppO_2 N_2O_2 (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first stop 80	70	60	50	40	30	20	10	Total Ascent Time (M:S)	Repet Group
110 FSW											
23	3:40								0	3:40	I
25	3:20								4	7:40	J
30	3:20								18	21:40	J
35	3:00							3	28	34:20	K
40	3:00							14	29	46:20	L
45	3:00							25	29	57:20	L
50	2:40						7	29	28	67:00	M
55	2:40						16	29	28	76:00	N
Exceptional Exposure ----------											
60	2:40						25	28	29	85:00	
65	2:20					4	29	28	33	96:40	
70	2:20					11	29	28	40	110:40	
80	2:20					24	28	29	52	135:40	
90	2:00				6	29	28	34	65	164:20	
120 FSW											
20	4:00								0	4:00	I
25	3:40								14	18:00	J
30	3:20							3	27	33:40	J
35	3:20							15	29	47:40	K
40	3:00						4	25	28	60:20	L
45	3:00						12	29	28	72:20	M
Exceptional Exposure ----------											
50	2:40					1	23	28	28	83:00	
55	2:40					5	29	28	29	94:00	
60	2:40					15	28	28	35	109:00	
70	2:20				3	28	29	28	50	140:40	
80	2:20				17	28	29	31	68	175:40	

Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata ppO_2 N_2O_2

Table 15-16. *Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata ppO_2 N_2O_2 (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first stop								Total Ascent Time (M:S)	Repet Group
		80	70	60	50	40	30	20	10		
130 FSW											
16	4:20								0	4:20	H
20	4:00								5	9:20	I
25	3:40							4	20	28:00	J
30	3:20						2	11	28	44:40	K
35	3:20						7	21	29	60:40	L
Exceptional Exposure ----------											
40	3:00					1	14	28	28	74:20	
45	3:00					7	21	28	29	88:20	
50	3:00					12	28	28	29	100:20	
55	2:40				3	20	28	29	34	117:00	
60	2:40				7	26	28	29	43	136:00	
70	2:40				23	28	28	29	67	178:00	
140 FSW											
14	4:40								0	4:40	H
15	4:20								1	5:40	H
20	4:00							3	11	18:20	J
25	3:40						3	7	24	38:00	K
30	3:20					1	7	17	28	56:40	L
Exceptional Exposure ----------											
35	3:20					4	13	24	29	73:40	
40	3:20					11	18	28	28	88:40	
45	3:00				4	14	25	29	28	103:20	
50	3:00				10	18	28	29	35	123:20	
60	2:40			5	18	28	29	28	61	172:00	
70	2:40			14	28	29	28	36	80	218:00	

Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata ppO_2 N_2O_2

Table 15-16. *Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata ppO_2 N_2O_2 (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (FSW) Stop times (min) include travel time, except first stop 80	70	60	50	40	30	20	10	Total Ascent Time (M:S)	Repet Group
150 FSW											
11	5:00								0	5:00	G
15	4:40								6	11:00	H
20	4:00						2	7	14	27:20	J
25	3:40					2	7	9	27	49:00	K
30	3:40					7	9	20	28	68:00	M
Exceptional Exposure ----------											
35	3:20				3	10	14	28	28	86:40	
40	3:20				7	14	22	28	29	103:40	
45	3:00			1	14	15	29	28	35	125:20	
50	3:00			7	14	23	29	28	49	153:20	
60	2:40		3	14	24	29	28	32	76	209:00	
70	2:40		10	24	28	29	28	52	91	265:00	
160 FSW											
Exceptional Exposure ----------											
10	5:20								0	5:20	
15	4:40							3	7	15:00	
20	4:20						6	8	17	35:40	
25	4:00					7	7	12	29	59:20	
30	3:40				6	7	12	23	28	80:00	
35	3:20			3	7	12	17	29	28	99:40	
40	3:20			5	13	14	25	29	35	124:40	
45	3:20			12	14	19	29	28	49	154:40	
50	3:00		4	15	14	28	28	29	65	186:20	
170 FSW											
Exceptional Exposure ----------											
9	5:40								0	5:40	
10	5:20								2	7:40	
15	4:40						2	6	7	20:00	
20	4:20					5	7	7	21	44:40	
25	4:00				6	7	7	17	28	69:20	
30	3:40			5	7	8	14	26	29	93:00	
35	3:20		2	7	9	14	21	28	35	119:40	
40	3:20		5	9	14	15	28	29	46	149:40	
45	3:20		8	15	14	24	28	29	65	186:40	
50	3:00	2	14	14	19	28	29	36	76	221:20	

0.75 ata ppO2 HeO2 Tables

Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium

Table 15-17. *Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium.*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop																			Total Ascent Time (M:S)
		190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	
40 FSW																					
390	1:20																			0	1:20
50 FSW																					
205	1:40																			0	1:40
210	1:20																			3	4:40
220	1:20																			9	10:40
230	1:20																			14	15:40
240	1:20																			20	21:40
250	1:20																			24	25:40
Exceptional Exposure ----------																					
260	1:20																			29	30:40
270	1:20																			33	34:40
280	1:20																			37	38:40
290	1:20																			41	42:40
300	1:20																			45	46:40
310	1:20																			48	49:40
320	1:20																			52	53:40
330	1:20																			55	56:40
340	1:20																			58	59:40
350	1:20																			60	61:40
360	1:20																			63	64:40
370	1:20																			65	66:40
380	1:20																			68	69:40
390	1:20																			70	71:40
60 FSW																					
133	2:00																			0	2:00
140	1:40																			8	10:00
150	1:40																			20	22:00
160	1:40																			30	32:00
170	1:40																			40	42:00
Exceptional Exposure ----------																					
180	1:40																			50	52:00
190	1:40																			59	61:00
200	1:40																			67	69:00
210	1:40																			75	77:00
220	1:40																			82	84:00
230	1:40																			90	92:00
240	1:40																			96	98:00
250	1:40																			103	105:00
260	1:40																			109	111:00
270	1:20																		1	113	115:40

Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium

Table 15-17. *Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium (Continued).*
(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop 190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	Total Ascent Time (M:S)
60 FSW Continued																					
280	1:20																		7	113	121:40
290	1:20																		12	113	126:40
300	1:20																		16	114	131:40
310	1:20																		21	113	135:40
320	1:20																		25	113	139:40
330	1:20																		29	113	143:40
340	1:20																		33	113	147:40
350	1:20																		36	113	150:40
360	1:20																		40	113	154:40
370	1:20																		43	113	157:40
380	1:20																		46	113	160:40
390	1:20																		49	113	163:40
70 FSW																					
82	2:20																			0	2:20
85	2:00																			2	4:20
90	2:00																			6	8:20
95	2:00																			9	11:20
100	2:00																			12	14:20
110	2:00																			19	21:20
120	2:00																			35	37:20
130	2:00																			51	53:20
140	2:00																			65	67:20
Exceptional Exposure ----------																					
150	2:00																			79	81:20
160	2:00																			92	94:20
170	2:00																			104	106:20
180	1:40																		7	109	118:00
190	1:40																		14	113	129:00
200	1:40																		24	113	139:00
210	1:40																		34	113	149:00
220	1:40																		43	113	158:00
230	1:40																		52	113	167:00
240	1:40																		60	113	175:00
250	1:40																		68	113	183:00
260	1:40																		75	113	190:00
270	1:40																		82	113	197:00

Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium

Table 15-17. *Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop																		Total Ascent Time (M:S)
		190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	
80 FSW																					
52	2:40																			0	2:40
55	2:20																			2	4:40
60	2:20																			5	7:40
65	2:20																			8	10:40
70	2:20																			14	16:40
75	2:20																			19	21:40
80	2:20																			24	26:40
85	2:20																			29	31:40
90	2:20																			33	35:40
95	2:20																			36	38:40
100	2:00																		3	44	49:20
110	2:00																		9	58	69:20
120	2:00																		14	73	89:20
Exceptional Exposure ----------																					
130	2:00																		18	87	107:20
140	2:00																		22	100	124:20
150	2:00																		33	105	140:20
160	2:00																		43	111	156:20
170	2:00																		55	113	170:20
180	2:00																		69	113	184:20
190	2:00																		82	113	197:20
90 FSW																					
37	3:00																			0	3:00
40	2:40																			4	7:00
45	2:40																			10	13:00
50	2:40																			15	18:00
55	2:40																			19	22:00
60	2:20																		1	23	26:40
65	2:20																		4	27	33:40
70	2:20																		6	32	40:40
75	2:20																		8	36	46:40
80	2:20																		12	38	52:40
85	2:20																		17	38	57:40
90	2:20																		22	44	68:40
95	2:20																		26	53	81:40
100	2:20																		30	61	93:40
110	2:20																		38	77	117:40
120	2:00																	6	38	94	140:20
Exceptional Exposure ----------																					
130	2:00																	11	46	102	161:20
140	2:00																	15	55	109	181:20
150	2:00																	19	66	113	200:20
160	2:00																	22	81	113	218:20

Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium

Table 15-17. *Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium (Continued).*
(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop 190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	Total Ascent Time (M:S)
100 FSW																					
29	3:20																			0	3:20
30	3:00																			1	4:20
35	3:00																			11	14:20
40	3:00																			19	22:20
50	2:40																		9	22	34:00
60	2:40																		18	27	48:00
70	2:20																	2	22	38	64:40
80	2:20																	7	31	41	81:40
90	2:20																	11	38	59	110:40
100	2:20																	21	38	78	139:40
Exceptional Exposure ----------																					
110	2:20																	29	39	96	166:40
120	2:20																	36	50	103	191:40
130	2:00																4	38	61	111	216:20
140	2:00																9	38	76	113	238:20
110 FSW																					
23	3:40																			0	3:40
25	3:20																			2	5:40
30	3:20																			14	17:40
35	3:00																		3	22	28:20
40	3:00																		11	22	36:20
50	2:40																	3	22	22	50:00
60	2:40																	13	22	33	71:00
70	2:40																	20	28	37	88:00
80	2:20																3	23	37	55	120:40
90	2:20																7	31	38	76	154:40
100	2:20																11	38	39	96	186:40
Exceptional Exposure ----------																					
110	2:20																20	38	52	103	215:40
120	2:20																28	38	64	111	243:40
130	2:20																34	40	80	113	269:40
140	2:00															2	38	51	89	113	295:20

Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium

Table 15-17. *Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop																		Total Ascent Time (M:S)
		190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	
120 FSW																					
18	4:00																			0	4:00
20	3:40																			2	6:00
25	3:40																			13	17:00
30	3:20																		5	22	30:40
35	3:20																		16	22	41:40
40	3:00																	4	22	22	51:20
50	3:00																	19	23	24	69:20
60	2:40																9	22	22	37	93:00
70	2:40																16	22	34	52	127:00
80	2:40																22	29	38	72	164:00
Exceptional Exposure ----------																					
90	2:20															4	24	37	38	95	200:40
100	2:20															7	32	38	50	104	233:40
110	2:20															12	37	38	65	112	266:40
120	2:20															20	38	41	83	113	297:40
130 FSW																					
15	4:20																			0	4:20
20	4:00																			8	12:20
25	3:40																		6	18	28:00
30	3:20																	2	16	22	43:40
35	3:20																	8	22	22	55:40
40	3:20																	19	22	22	66:40
50	3:00																14	22	22	28	89:20
60	2:40															4	22	22	26	48	125:00
70	2:40															12	22	24	38	70	169:00
Exceptional Exposure ----------																					
80	2:40															18	22	36	38	93	210:00
90	2:20														1	22	32	37	46	107	247:40
100	2:20														4	26	38	37	64	113	284:40
110	2:20														6	35	38	40	84	113	318:40
120	2:20														12	38	38	55	93	113	351:40

Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium

Table 15-17. *Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium (Continued).*
(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop																			Total Ascent Time (M:S)
		190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	
140 FSW																					
12	4:40																			0	4:40
15	4:20																			4	8:40
20	4:00																		5	12	21:20
25	3:40																	4	10	22	40:00
30	3:40																	10	20	22	56:00
35	3:20																4	18	22	22	69:40
40	3:20																12	22	22	22	81:40
50	3:00															8	22	22	22	35	112:20
60	3:00															21	22	22	31	66	165:20
70	2:40														9	22	22	29	38	93	216:00
Exceptional Exposure ----------																					
80	2:40														15	22	27	38	40	113	258:00
90	2:40														20	23	38	38	63	113	298:00
100	2:20													1	22	35	38	37	88	113	336:40
150 FSW																					
10	5:00																			0	5:00
15	4:20																		2	7	13:40
20	4:00																	2	10	15	31:20
25	3:40																2	9	15	22	52:00
30	3:40																7	14	22	22	69:00
35	3:20															3	11	22	22	22	83:40
40	3:20															6	21	22	22	22	96:40
45	3:20															15	22	22	22	33	117:40
50	3:00														2	23	22	22	22	56	150:20
55	3:00														10	22	22	22	27	74	180:20
60	3:00														16	22	23	22	35	88	209:20
Exceptional Exposure ----------																					
70	2:40													5	22	22	22	35	40	113	262:00
80	2:40													12	22	22	34	38	65	113	309:00
90	2:40													17	22	31	38	38	90	113	352:00

Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium

Table 15-17. *Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop																		Total Ascent Time (M:S)
		190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	
155 FSW																					
9	5:10																			0	5:10
10	4:50																			1	6:10
15	4:30																		3	9	16:50
20	4:10																	5	10	17	36:30
25	3:50																5	9	17	22	57:10
30	3:30															2	9	17	22	22	75:50
35	3:30															6	15	22	22	22	90:50
40	3:30															12	22	22	22	22	103:50
45	3:10														3	20	22	22	22	44	136:30
50	3:10														10	23	22	22	22	68	170:30
55	3:10														18	22	22	22	30	84	201:30
60	2:50													3	22	22	22	22	38	100	232:10
Exceptional Exposure ----------																					
70	2:50													14	22	22	22	38	52	113	286:10
80	2:50													21	22	22	38	37	77	113	333:10
90	2:30												5	22	22	35	38	37	103	113	377:50
160 FSW																					
9	5:20																			0	5:20
10	5:00																			2	7:20
15	4:20																	1	4	10	19:40
20	4:00																1	8	9	19	41:20
25	4:00																8	10	19	22	63:20
30	3:40															5	10	19	22	22	82:00
35	3:20														1	9	18	22	22	22	97:40
40	3:20														4	15	22	22	23	27	116:40
45	3:20														9	22	22	22	22	55	155:40
50	3:20														18	22	23	22	22	79	189:40
Exceptional Exposure ----------																					
55	3:00													5	22	22	22	22	31	97	224:20
60	3:00													12	22	22	22	24	38	113	256:20
70	2:40												1	22	22	22	25	38	64	113	310:00
80	2:40												8	22	23	25	37	38	91	113	360:00
90	2:40												14	22	24	37	38	43	111	113	405:00

Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium

Table 15-17. *Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium (Continued).*
(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop 190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	Total Ascent Time (M:S)
165 FSW																					
8	5:30																			0	5:30
10	5:10																			3	8:30
15	4:30																	2	6	9	21:50
20	4:10																2	10	9	21	46:30
25	3:50															2	10	9	22	22	69:10
30	3:50															9	9	22	22	22	88:10
35	3:30														5	9	21	22	22	22	104:50
40	3:30														8	19	22	22	22	39	135:50
45	3:10													1	16	22	22	22	22	66	174:30
50	3:10													5	22	22	22	22	24	92	212:30
Exceptional Exposure ----------																					
55	3:10													13	22	22	22	22	34	108	246:30
60	3:10													20	22	22	22	27	48	113	277:30
70	2:50												10	22	22	22	28	38	79	113	337:10
80	2:50												18	22	22	28	38	38	105	113	387:10
170 FSW																					
8	5:40																			0	5:40
10	5:00																		1	3	9:20
15	4:40																	4	7	9	25:00
20	4:20																5	10	10	22	51:40
25	4:00															6	9	11	22	22	74:20
30	3:40														3	10	12	22	22	22	95:00
35	3:40														8	12	22	22	22	22	112:00
40	3:20													3	9	22	22	22	22	50	153:40
45	3:20													5	19	22	23	22	22	78	194:40
50	3:20													13	22	22	22	22	26	104	234:40
Exceptional Exposure ----------																					
55	3:20													21	23	22	22	22	42	113	268:40
60	3:00												7	22	22	22	22	29	62	113	302:20
70	3:00												19	22	22	22	31	38	92	113	362:20
80	2:40											5	22	22	22	32	38	43	113	113	413:00

Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium

Table 15-17. *Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop																			Total Ascent Time (M:S)
		190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	
175 FSW																					
7	5:50																			0	5:50
10	5:10																		2	4	11:30
15	4:30																1	4	8	10	27:50
20	4:10															1	7	10	12	22	56:30
25	4:10															9	9	14	22	22	80:30
30	3:50														7	9	15	22	22	22	101:10
35	3:30													3	9	15	22	22	22	31	127:50
40	3:30													7	13	22	22	22	22	62	173:50
Exceptional Exposure ----------																					
45	3:30													10	22	22	22	22	22	91	214:50
50	3:10												2	19	22	22	22	22	30	113	255:30
55	3:10												8	22	22	22	22	22	58	113	292:30
60	3:10												16	22	22	22	22	31	76	113	327:30
65	3:10												22	22	22	22	25	38	90	113	357:30
70	2:50											6	22	22	22	22	34	38	106	113	388:10
75	2:50											10	22	22	23	27	37	45	113	113	415:10
80	2:50											14	22	22	22	36	38	58	113	113	441:10
180 FSW																					
7	6:00																			0	6:00
10	5:20																		3	4	12:40
15	4:40																3	4	9	11	32:00
20	4:20															3	8	10	14	22	61:40
25	4:00														3	9	10	16	22	22	86:20
30	3:40													1	10	9	17	22	22	23	108:00
35	3:40													7	9	17	22	23	22	41	145:00
40	3:20												1	10	16	22	22	22	22	73	191:40
Exceptional Exposure ----------																					
45	3:20												4	14	22	22	22	22	22	105	236:40
50	3:20												7	22	22	22	22	22	44	113	277:40
55	3:20												16	22	22	22	22	24	70	113	314:40
60	3:00											3	22	22	22	22	22	33	90	113	352:20
65	3:00											9	22	22	22	22	28	38	105	113	384:20
70	3:00											15	22	22	22	22	37	45	113	113	414:20

Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium

Table 15-17. *Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium (Continued).*
(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop																		Total Ascent Time (M:S)
		190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	
185 FSW																					
6	6:10																			0	6:10
10	5:30																		4	4	13:50
15	4:50																4	5	10	12	36:10
20	4:10														1	4	10	9	16	22	66:30
25	4:10														6	10	9	19	22	22	92:30
30	3:50													5	9	10	20	22	22	22	114:10
35	3:30												1	10	9	21	22	22	22	52	162:50
40	3:30												5	10	19	22	22	22	22	86	211:50
Exceptional Exposure ----------																					
45	3:30												8	18	22	22	22	22	28	113	258:50
50	3:10											1	14	22	22	22	22	22	58	113	299:30
55	3:10											3	22	22	22	22	22	26	84	113	339:30
60	3:10											11	22	22	22	22	22	36	103	113	376:30
65	3:10											18	22	22	22	22	30	44	113	113	409:30
70	2:50										2	22	22	22	22	24	38	60	113	113	441:10
190 FSW																					
6	6:20																			0	6:20
10	5:20																	1	4	5	15:40
15	4:40															2	4	6	9	15	41:00
20	4:20														2	6	10	9	18	22	71:40
25	4:00													1	9	9	10	20	23	22	98:20
30	4:00													8	10	10	22	22	22	27	125:20
35	3:40												5	9	11	22	22	22	22	63	180:00
40	3:40												9	11	22	22	22	22	22	99	233:00
Exceptional Exposure ----------																					
45	3:20											3	9	22	22	22	22	22	41	113	279:40
50	3:20											5	18	22	22	22	22	22	73	113	322:40
55	3:20											11	22	22	22	22	22	28	99	113	364:40
60	3:20											20	22	22	22	22	22	42	114	113	402:40
65	3:00										5	22	22	22	22	22	33	59	113	113	436:20
70	3:00										11	22	22	22	22	27	38	76	113	113	469:20

Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium

Table 15-17. *Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop																		Total Ascent Time (M:S)
		190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	
195 FSW																					
6	6:30																			0	6:30
10	5:30																	3	3	6	17:50
15	4:50															3	4	8	9	16	45:10
20	4:30														4	7	10	9	20	22	76:50
25	4:10													4	9	10	10	22	22	22	103:30
30	3:50												3	9	10	12	22	23	22	37	142:10
35	3:50												9	9	14	22	22	22	22	75	199:10
40	3:30											4	9	14	22	22	22	22	22	112	252:50
Exceptional Exposure ----------																					
45	3:30											7	12	22	22	22	22	22	55	113	300:50
50	3:30											9	22	22	22	22	22	22	88	113	345:50
55	3:10										1	19	22	22	22	22	22	30	113	113	389:30
60	3:10										6	22	22	22	22	22	26	55	113	113	426:30
200 FSW																					
6	6:40																			0	6:40
10	5:40																	4	4	6	20:00
15	4:40														1	4	4	8	10	17	49:00
20	4:20													2	4	9	9	9	22	22	81:40
25	4:20													7	10	9	13	22	22	22	109:40
30	4:00												6	10	9	16	22	22	22	48	159:20
35	3:40											3	10	9	17	22	22	22	22	87	218:00
Exceptional Exposure ----------																					
40	3:40											7	10	17	22	22	22	22	34	113	273:00
45	3:20										1	10	16	22	22	22	22	22	70	113	323:40
50	3:20										4	14	22	22	22	22	22	22	106	113	372:40
55	3:20										6	22	22	22	22	22	22	46	113	113	413:40
60	3:20										15	22	22	22	22	22	27	72	113	114	454:40
205 FSW																					
5	6:50																			0	6:50
10	5:30																1	4	4	8	22:50
15	4:50														2	4	5	9	9	19	53:10
20	4:30													3	5	9	10	11	22	22	86:50
25	4:10												2	9	9	10	15	22	22	22	115:30
30	3:50											1	9	10	9	18	22	22	22	59	176:10
35	3:50											7	9	10	20	22	22	22	22	100	238:10
Exceptional Exposure ----------																					
40	3:30										2	10	9	21	22	22	22	22	48	113	294:50
45	3:30										5	10	20	22	22	22	22	22	85	113	346:50
50	3:30										8	18	22	22	22	22	22	30	113	113	395:50
55	3:30										14	22	22	22	22	22	22	62	113	113	437:50
60	3:10									2	22	22	22	22	22	22	30	87	113	113	480:30

Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium

Table 15-17. *Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium (Continued).*
(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop																		Total Ascent Time (M:S)
		190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	
210 FSW																					
5	7:00																			0	7:00
10	5:40																2	4	4	9	25:00
15	5:00														4	3	6	10	9	20	57:20
20	4:20												1	4	6	10	9	13	22	22	91:40
25	4:20												5	9	9	10	17	22	22	26	124:40
30	4:00											4	10	9	9	21	22	23	22	68	192:20
35	3:40										1	10	9	11	22	22	22	22	22	112	257:00
Exceptional Exposure ----------																					
40	3:40										6	9	12	22	22	22	22	22	61	113	315:00
45	3:40										9	11	22	23	22	22	22	22	100	113	370:00
50	3:20									2	10	22	22	22	22	22	22	45	113	113	418:40
55	3:20									4	19	22	22	22	22	22	22	81	113	113	465:40
60	3:20									10	22	22	22	22	22	22	32	103	113	113	506:40
215 FSW																					
5	7:10																			0	7:10
10	5:50																3	4	4	10	27:10
15	4:50													1	4	4	7	9	10	22	62:10
20	4:30												2	4	8	10	9	15	22	22	96:50
25	4:10											1	7	10	9	9	20	22	22	36	140:30
30	4:10											8	9	10	11	22	22	22	22	81	211:30
Exceptional Exposure ----------																					
35	3:50										5	10	9	14	22	22	22	22	35	113	278:10
40	3:30									1	9	10	15	22	22	22	22	22	77	113	338:50
45	3:30									4	9	15	22	22	22	23	22	24	113	113	392:50
50	3:30									6	14	22	22	22	22	22	22	62	113	114	444:50
55	3:30									9	22	22	22	22	22	22	23	97	113	113	490:50
60	3:30									19	22	22	22	22	22	22	41	112	113	113	533:50
220 FSW																					
5	7:20																			0	7:20
10	5:40															1	4	4	5	9	29:00
15	5:00													3	3	4	9	9	11	22	66:20
20	4:40												4	4	9	10	9	17	22	22	102:00
25	4:20											3	8	10	9	10	22	22	22	45	155:40
30	4:00										2	10	9	9	14	22	22	22	22	93	229:20
Exceptional Exposure ----------																					
35	4:00										9	9	10	17	22	22	22	22	48	113	298:20
40	3:40									5	9	9	19	22	22	22	22	22	92	113	361:00
45	3:40									8	9	19	22	22	22	22	22	41	113	113	417:00
50	3:20								1	10	17	22	22	22	22	22	22	80	113	113	469:40
55	3:20								3	15	22	22	22	22	22	22	30	108	113	113	517:40

Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium

Table 15-17. *Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop																		Total Ascent Time (M:S)
		190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	
225 FSW																					
4	7:30																			0	7:30
5	7:10																			1	8:30
10	5:50															2	4	4	6	9	31:10
15	5:10													4	4	4	9	10	12	22	70:30
20	4:30											2	4	5	10	9	9	19	22	22	106:50
25	4:10										1	5	9	9	10	12	22	22	22	56	172:30
30	4:10										6	9	9	10	16	22	22	23	22	104	247:30
Exceptional Exposure ----------																					
35	3:50									3	10	9	10	20	22	22	22	22	61	113	318:10
40	3:50									8	10	9	22	22	22	22	22	22	106	113	382:10
45	3:30								3	9	10	22	22	22	22	22	22	56	113	113	439:50
50	3:30								5	10	21	22	22	22	22	22	22	97	113	113	494:50
55	3:30								7	19	22	22	22	22	22	22	42	113	113	114	543:50
230 FSW																					
4	7:40																			0	7:40
5	7:20																			2	9:40
10	6:00															3	4	4	7	9	33:20
15	5:00												2	4	3	6	9	9	14	22	74:20
20	4:40											3	4	7	9	10	9	21	22	22	112:00
25	4:20										2	7	9	10	9	14	22	22	22	66	187:40
30	4:20										9	10	9	9	20	22	22	22	26	113	266:40
Exceptional Exposure ----------																					
35	4:00									7	9	10	10	22	22	22	22	22	74	113	337:20
40	3:40								3	9	10	13	22	22	22	22	22	31	113	113	406:00
45	3:40								7	9	14	22	22	22	22	22	22	74	113	113	466:00
50	3:40								9	13	22	22	22	22	22	22	27	109	113	113	520:00
55	3:20							2	10	22	22	22	23	22	22	22	60	113	113	113	569:40
235 FSW																					
4	7:50																			0	7:50
5	7:30																			3	10:50
10	5:50														1	4	3	4	8	10	36:10
15	5:10												3	4	4	6	10	9	15	22	78:30
20	4:30										1	4	4	8	10	9	10	22	22	22	116:50
25	4:30										4	8	9	10	9	17	22	22	22	76	203:50
30	4:10									4	9	9	10	9	22	22	22	22	38	113	284:30
Exceptional Exposure ----------																					
35	3:50								2	9	9	10	13	22	22	23	22	22	88	113	359:10
40	3:50								7	9	10	16	22	22	22	22	22	46	113	113	428:10
45	3:30							1	10	9	17	23	22	22	22	22	22	90	113	113	489:50
50	3:30							4	9	17	22	22	22	22	22	22	40	113	113	113	544:50

Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium

Table 15-17. *Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium (Continued).*
(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop																		Total Ascent Time (M:S)
		190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	
240 FSW																					
4	8:00																			0	8:00
5	7:40																			3	11:00
10	6:00														2	4	4	3	9	10	38:20
15	5:00											1	4	4	3	8	9	10	17	22	83:20
20	4:40										3	3	5	9	10	9	12	22	22	32	132:00
25	4:20									2	4	10	9	9	10	19	22	22	22	87	220:40
Exceptional Exposure ----------																					
30	4:20									7	9	10	9	12	22	22	22	22	51	113	303:40
35	4:00								5	10	9	10	16	22	22	22	22	22	104	113	381:20
40	3:40							1	10	9	10	19	22	22	22	22	22	60	113	113	449:00
45	3:40							5	10	9	21	22	22	22	22	22	22	107	113	113	514:00
50	3:40							8	9	21	22	22	22	22	22	22	58	113	113	113	571:00
245 FSW																					
5	7:30																		1	4	12:50
10	6:10														3	4	4	4	9	11	41:30
15	5:10											2	4	4	4	9	9	9	19	22	87:30
20	4:50										4	4	6	9	10	9	14	22	22	41	146:10
25	4:30									3	6	10	9	10	9	21	22	22	22	98	236:50
Exceptional Exposure ----------																					
30	4:10								1	10	9	10	9	15	22	22	22	22	64	113	323:30
35	4:10								9	9	10	9	20	22	22	22	22	27	113	113	402:30
40	3:50							5	10	9	11	22	22	22	22	22	22	77	114	113	475:10
45	3:50							9	10	12	22	22	22	22	22	22	33	113	113	113	539:10
50	3:30						3	9	12	22	22	22	22	22	23	22	75	113	114	113	597:50
250 FSW																					
5	7:40																		1	4	13:00
10	6:20														4	4	4	5	9	12	44:40
15	5:20											3	4	4	5	9	9	10	20	22	91:40
20	4:40									2	4	4	7	9	10	9	16	22	22	50	160:00
25	4:20								1	4	8	9	10	9	11	22	22	22	22	110	254:40
Exceptional Exposure ----------																					
30	4:20								5	9	10	9	10	17	22	22	22	22	78	113	343:40
35	4:00							4	9	9	10	10	22	22	22	22	22	41	113	114	424:20
40	4:00							9	9	10	14	22	22	22	22	22	22	94	113	113	498:20
45	3:40						4	9	10	16	22	22	22	22	22	22	51	113	113	113	565:00
50	3:40						7	9	16	22	22	22	22	22	22	22	95	113	113	113	624:00

Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium

Table 15-17. *Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop																		Total Ascent Time (M:S)
		190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	
255 FSW																					
5	7:50																		2	4	14:10
10	6:10													1	4	4	4	6	10	12	47:30
15	5:10										1	4	4	4	5	10	9	10	22	22	96:30
20	4:50									3	4	4	9	9	10	9	18	22	22	59	174:10
25	4:30								3	4	9	10	9	10	13	22	22	22	31	113	272:50
Exceptional Exposure ----------																					
30	4:10							1	8	9	10	9	9	21	22	22	22	22	91	113	363:30
35	4:10							7	10	9	9	14	22	22	22	22	22	56	113	113	445:30
40	3:50						4	9	10	9	17	22	22	22	22	22	25	107	113	113	521:10
45	3:50						8	9	10	19	22	22	22	22	22	22	68	113	113	113	589:10
50	3:30					2	9	10	20	22	22	22	22	22	22	32	104	113	113	113	651:50
260 FSW																					
5	8:00																		3	4	15:20
10	6:20													2	4	4	4	7	10	14	51:40
15	5:20										2	4	4	4	7	9	10	11	22	22	100:40
20	4:40								1	4	4	5	9	10	9	9	20	22	22	69	189:00
25	4:20							1	4	5	10	9	10	9	16	22	22	22	43	113	290:40
Exceptional Exposure ----------																					
30	4:20							3	9	10	9	9	11	22	22	22	22	22	105	113	383:40
35	4:00						2	9	10	9	9	17	22	22	22	22	22	72	113	113	468:20
40	4:00						8	9	9	10	20	22	22	23	22	22	34	113	113	113	544:20
45	3:40					3	9	9	11	22	22	22	22	22	22	22	86	113	113	113	615:00
265 FSW																					
5	8:10																		4	4	16:30
10	6:30													4	3	4	4	8	10	15	54:50
15	5:30										4	4	3	4	9	9	9	13	22	22	104:50
20	4:50								3	4	3	7	9	10	9	9	22	22	22	78	203:10
25	4:30							2	4	8	9	10	9	9	18	22	22	22	55	113	307:50
Exceptional Exposure ----------																					
30	4:30							6	10	9	9	10	13	22	22	22	22	27	113	113	402:50
35	4:10						5	10	9	10	9	19	22	23	22	22	22	87	113	113	490:30
40	3:50					2	10	9	10	11	22	22	22	22	22	22	52	113	113	113	569:10
45	3:50					7	9	9	15	22	22	22	22	22	22	26	100	113	113	113	641:10

Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium

Table 15-17. *Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop																			Total Ascent Time (M:S)
		190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	
270 FSW																					
5	8:00																	1	4	4	17:20
10	6:20												1	4	4	4	4	9	9	16	57:40
15	5:20									1	4	4	4	4	9	10	9	15	22	22	109:40
20	5:00								4	4	4	8	9	9	10	11	22	22	22	88	218:20
25	4:40							4	4	9	9	10	9	10	20	22	22	22	66	113	325:00
Exceptional Exposure ----------																					
30	4:20						2	8	9	10	9	10	16	22	22	22	22	41	113	113	423:40
35	4:20						9	9	10	9	10	22	22	22	22	22	22	102	113	113	511:40
40	4:00					6	9	10	9	15	22	22	22	22	22	22	69	113	113	113	593:20
45	3:40				1	10	9	10	18	22	22	22	22	22	22	37	107	113	113	113	667:00
275 FSW																					
5	8:10																	2	4	4	18:30
10	6:30												2	4	4	4	4	10	9	18	61:50
15	5:30									3	4	3	4	5	10	9	10	16	22	24	115:50
20	4:50							2	4	4	4	9	9	10	9	14	22	22	22	99	235:10
Exceptional Exposure ----------																					
25	4:30						2	4	5	9	10	9	10	10	22	22	22	22	79	113	343:50
30	4:30						4	9	10	9	10	9	19	22	22	22	22	55	113	113	443:50
35	4:10					4	9	9	10	9	13	22	22	22	22	22	32	108	113	113	534:30
40	3:50				1	9	10	9	9	19	22	22	22	22	22	22	86	113	113	114	619:10
45	3:50				5	10	9	9	22	22	22	22	22	22	22	48	113	113	113	113	691:10
280 FSW																					
5	8:20																	3	4	3	18:40
10	6:40												3	4	4	4	5	10	9	19	65:00
15	5:40									4	4	4	4	6	9	10	9	18	22	32	128:00
20	5:00							3	4	4	5	10	9	10	9	15	23	22	22	109	250:20
Exceptional Exposure ----------																					
25	4:40						3	4	7	10	9	10	9	12	22	22	22	22	92	113	362:00
30	4:20					2	6	9	10	9	10	9	21	22	22	22	22	70	113	113	464:40
35	4:20					7	10	9	9	10	16	22	22	22	22	22	43	113	113	113	557:40
40	4:00				4	10	9	10	9	22	22	22	22	22	22	26	99	113	113	113	642:20
45	4:00				9	9	10	13	22	22	22	22	22	22	22	68	113	113	113	113	719:20

Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium

Table 15-17. *Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop																			Total Ascent Time (M:S)
		190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	
285 FSW																					
5	8:30																	3	4	4	19:50
10	6:30											1	4	4	3	4	7	9	10	20	68:50
15	5:30								2	4	4	3	4	8	9	10	9	21	22	40	141:50
20	4:50						1	4	4	4	7	9	9	10	9	18	22	22	29	113	266:10
Exceptional Exposure ----------																					
25	4:30					1	4	4	9	9	10	9	10	14	22	22	22	23	104	113	380:50
30	4:30					3	8	10	9	10	9	11	22	22	22	22	22	84	113	113	484:50
35	4:10				2	9	10	9	9	10	19	22	22	22	22	22	59	113	113	113	580:30
40	4:10				8	10	9	10	12	22	22	22	22	22	22	38	104	113	113	113	666:30
45	3:50			4	9	10	9	17	22	22	22	22	22	22	22	87	113	113	113	113	746:10
290 FSW																					
5	8:20																1	4	3	5	21:40
10	6:40											2	4	4	4	3	8	9	10	22	73:00
15	5:40								3	4	4	4	4	8	10	9	10	22	22	48	154:00
20	5:00						3	4	3	4	9	9	9	10	9	20	22	22	40	113	282:20
Exceptional Exposure ----------																					
25	4:40					3	4	5	9	9	10	9	10	17	22	22	22	31	109	113	400:00
30	4:20				1	5	9	10	9	9	10	14	22	22	22	22	23	99	113	113	507:40
35	4:20				5	10	9	10	9	10	22	22	22	22	22	22	76	113	113	113	604:40
40	4:00			3	9	10	9	10	15	22	23	22	22	22	22	49	111	113	113	113	692:20
45	4:00			8	9	10	9	20	22	22	22	22	22	22	31	95	113	113	113	113	770:20
295 FSW																					
5	8:30																1	4	4	5	22:50
10	6:50											3	4	4	4	3	9	9	11	22	76:10
15	5:30							1	4	4	3	4	5	9	10	9	12	22	22	56	166:50
20	4:50					1	3	4	4	4	10	9	10	9	10	22	22	22	50	113	298:10
Exceptional Exposure ----------																					
25	4:30				1	4	4	6	10	9	9	10	9	20	22	22	22	41	112	113	418:50
30	4:30				3	6	10	9	9	10	9	17	22	22	22	22	33	103	113	113	527:50
35	4:30				9	9	10	9	10	12	22	22	22	22	22	23	91	113	113	113	626:50
40	4:10			7	9	10	9	9	20	22	22	22	22	22	22	66	113	113	113	113	718:30
45	3:50		2	10	9	10	11	22	22	22	22	22	22	22	43	102	113	113	113	113	797:10

Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium

Table 15-17. *Closed-Circuit Mixed-Gas UBA Decompression Table Using 0.75 ata Constant Partial Pressure Oxygen in Helium (Continued).*

(DESCENT RATE 60 FPM—ASCENT RATE 30 FPM)

Bottom Time (min)	Time to First Stop (M:S)	DECOMPRESSION STOPS (fsw) Stop times (min) include travel time, except first stop																			Total Ascent Time (M:S)
		190	180	170	160	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	
300 FSW																					
5	8:40																2	4	4	6	25:00
10	7:00											4	4	4	4	4	9	9	12	22	79:20
15	5:40							2	4	4	4	4	5	10	9	10	14	22	22	64	180:00
20	5:00					2	4	4	4	5	10	9	10	9	12	22	22	22	62	113	315:20
Exceptional Exposure ----------																					
25	4:40				2	4	4	8	10	9	10	9	9	22	22	23	22	51	113	113	436:00
30	4:20			1	4	8	9	10	9	10	9	20	22	22	22	22	43	108	113	113	549:40
35	4:20			4	9	9	10	9	10	15	22	22	22	22	23	32	97	113	113	113	649:40
40	4:00		1	10	9	10	9	10	22	22	22	22	22	22	22	83	113	113	113	113	742:20
310 FSW																					
Exceptional Exposure ----------																					
6	8:20														1	4	4	4	6	9	36:40
10	7:00										2	4	4	4	4	6	9	10	15	22	87:20
15	5:40						1	4	4	4	4	4	8	9	9	10	18	22	22	81	206:00
20	5:00				1	4	4	4	4	8	10	9	10	9	17	22	22	22	85	113	349:20
25	4:40			2	4	3	7	9	10	9	9	10	14	22	22	22	22	81	113	113	477:00
30	4:40			4	6	10	9	10	9	10	12	22	22	22	22	22	69	113	113	113	593:00
35	4:20		2	9	10	9	9	10	9	22	22	22	22	22	22	54	109	113	113	113	696:40
40	4:20		9	9	10	9	10	16	22	22	22	22	23	22	41	98	113	113	113	113	791:40
320 FSW																					
Exceptional Exposure ----------																					
6	8:40														3	4	4	4	7	10	41:00
10	7:00									1	4	4	4	4	4	7	10	9	19	22	95:20
15	6:00						4	3	4	4	4	5	10	9	9	10	22	22	22	98	232:20
20	5:20				4	4	4	4	6	9	10	9	9	10	22	22	22	28	102	113	383:40
25	4:40		1	4	4	4	9	10	9	10	9	10	19	22	22	22	34	96	113	113	516:00
30	4:40		3	5	10	9	9	10	9	10	18	22	22	22	22	31	91	113	113	113	637:00
35	4:20	1	8	10	9	10	9	9	16	22	22	22	22	22	24	84	113	113	113	113	746:40
40	4:20	7	10	9	10	9	11	22	22	22	22	22	22	22	66	112	113	113	113	113	844:40