

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



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

**HOW TO USE TABLE 1:** Find the planned depth of your dive in feet or metres at the far left of Table 1. Read to the right until you find the time (minutes) you plan to spend at that depth. Read down to find the Group Designation letter.

| DEPTH<br>feet / metres | Doppler<br>No-Decompression<br>Limits (minutes) | HOW TO USE TABLE 1: Find the planned depth of your dive in feet or metres at the far left of Table 1. Read to the right until you find the time (minutes) you plan to spend at that depth. Read down to find the Group Designation letter. |     |     |     |     |     |     |     |     |     |     |
|------------------------|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                        |                                                 | 60                                                                                                                                                                                                                                         | 120 | 210 | 300 |     |     |     |     |     |     |     |
| 10 3.0                 |                                                 | 60                                                                                                                                                                                                                                         | 120 | 210 | 300 |     |     |     |     |     |     |     |
| 15 4.5                 |                                                 | 35                                                                                                                                                                                                                                         | 70  | 110 | 160 | 225 | 350 |     |     |     |     |     |
| 20 6.0                 |                                                 | 25                                                                                                                                                                                                                                         | 50  | 75  | 100 | 135 | 180 | 240 | 325 |     |     |     |
| 25 7.5                 | 245                                             | 20                                                                                                                                                                                                                                         | 35  | 55  | 75  | 100 | 125 | 160 | 195 | 245 |     |     |
| 30 9.0                 | 205                                             | 15                                                                                                                                                                                                                                         | 30  | 45  | 60  | 75  | 95  | 120 | 145 | 170 | 205 |     |
| 35 10.5                | 160                                             | 5                                                                                                                                                                                                                                          | 15  | 25  | 40  | 50  | 60  | 80  | 100 | 120 | 140 | 160 |
| 40 12.0                | 130                                             | 5                                                                                                                                                                                                                                          | 15  | 25  | 30  | 40  | 50  | 70  | 80  | 100 | 110 | 130 |
| 50 15.0                | 70                                              |                                                                                                                                                                                                                                            | 10  | 15  | 25  | 30  | 40  | 50  | 60  | 70  |     |     |
| 60 18.0                | 50                                              |                                                                                                                                                                                                                                            | 10  | 15  | 20  | 25  | 30  | 40  | 50  |     |     |     |
| 70 21.0                | 40                                              |                                                                                                                                                                                                                                            | 5   | 10  | 15  | 20  | 30  | 35  | 40  |     |     |     |
| 80 24.0                | 30                                              |                                                                                                                                                                                                                                            | 5   | 10  | 15  | 20  | 25  | 30  |     |     |     |     |
| 90 27.0                | 25                                              |                                                                                                                                                                                                                                            | 5   | 10  | 12  | 15  | 20  | 25  |     |     |     |     |
| 100 30.0               | 20                                              |                                                                                                                                                                                                                                            | 5   | 7   | 10  | 15  | 20  |     |     |     |     |     |
| 110 33.0               | 15                                              |                                                                                                                                                                                                                                            |     | 5   | 10  | 13  | 15  |     |     |     |     |     |
| 120 36.0               | 10                                              |                                                                                                                                                                                                                                            |     | 5   | 10  |     |     |     |     |     |     |     |
| 130 39.0               | 5                                               |                                                                                                                                                                                                                                            |     | 5   |     |     |     |     |     |     |     |     |

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

**TABLE 2:**

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

**TABLE 2** Residual Nitrogen Timetable For Repetitive Air Dives

REPETITIVE GROUP AT THE BEGINNING OF THE SURFACE INTERVAL

|        |          |          |          |          |          |          |          |          |          |          |          |  |
|--------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--|
| 0:10   |          |          |          |          |          |          |          |          |          |          |          |  |
| 12:00* | <b>A</b> |          |          |          |          |          |          |          |          |          |          |  |
| 3:21   | 0:10     | <b>B</b> |          |          |          |          |          |          |          |          |          |  |
| 12:00* | 3:20     |          |          |          |          |          |          |          |          |          |          |  |
| 4:50   | 1:40     | 0:10     | <b>C</b> |          |          |          |          |          |          |          |          |  |
| 12:00* | 4:49     | 1:39     |          |          |          |          |          |          |          |          |          |  |
| 5:49   | 2:39     | 1:10     | 0:10     | <b>D</b> |          |          |          |          |          |          |          |  |
| 12:00* | 5:48     | 2:38     | 1:09     |          |          |          |          |          |          |          |          |  |
| 6:35   | 3:25     | 1:58     | 0:55     | 0:10     | <b>E</b> |          |          |          |          |          |          |  |
| 12:00* | 6:34     | 3:24     | 1:57     | 0:54     |          |          |          |          |          |          |          |  |
| 7:06   | 3:58     | 2:29     | 1:30     | 0:46     | 0:10     | <b>F</b> |          |          |          |          |          |  |
| 12:00* | 7:05     | 3:57     | 2:28     | 1:29     | 0:45     |          |          |          |          |          |          |  |
| 7:36   | 4:26     | 2:59     | 2:00     | 1:16     | 0:41     | 0:10     | <b>G</b> |          |          |          |          |  |
| 12:00* | 7:35     | 4:25     | 2:58     | 1:59     | 1:15     | 0:40     |          |          |          |          |          |  |
| 8:00   | 4:50     | 3:21     | 2:24     | 1:42     | 1:07     | 0:37     | 0:10     | <b>H</b> |          |          |          |  |
| 12:00* | 7:59     | 4:49     | 3:20     | 2:23     | 1:41     | 1:06     | 0:36     |          |          |          |          |  |
| 8:22   | 5:13     | 3:44     | 2:45     | 2:03     | 1:30     | 1:00     | 0:34     | 0:10     | <b>I</b> |          |          |  |
| 12:00* | 8:21     | 5:12     | 3:43     | 2:44     | 2:02     | 1:29     | 0:59     | 0:33     |          |          |          |  |
| 8:51   | 5:41     | 4:03     | 3:05     | 2:21     | 1:48     | 1:20     | 0:55     | 0:32     | 0:10     | <b>J</b> |          |  |
| 12:00* | 8:50     | 5:40     | 4:02     | 3:04     | 2:20     | 1:47     | 1:19     | 0:54     | 0:31     |          |          |  |
| 8:59   | 5:49     | 4:20     | 3:22     | 2:39     | 2:04     | 1:36     | 1:12     | 0:50     | 0:29     | 0:10     | <b>K</b> |  |
| 12:00* | 8:58     | 5:48     | 4:19     | 3:21     | 2:38     | 2:03     | 1:35     | 1:11     | 0:49     | 0:28     |          |  |

NEW GROUP DESIGNATION: **A B C D E F G H I J K**

REPETITIVE DIVE DEPTH: **RESIDUAL NITROGEN TIMES DISPLAYED ON REVERSE**