



Happy New Year from the DUDC

Happy New Year! Hopefully your holidays were happy and Santa brought you all the new dive gear on your list.

We are aiming to start off the new year right and have already planned some great dives for the year. We are continuing our monthly dives with Pura Vida Divers out of Singer Island starting back in February. We are also planning to do a variety of different dives in the upcoming months, including more night dives, shore dives, another Keys trip and a spring dive trip. As always, if you have any ideas for dives you would like to do (whether you want to coordinate the dive or not), please let us know.

Don't forget the next club Meeting on **January 12th at 7:30 p.m.** at the Indian River Lagoon House.

D. Buck

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Hatt's Diving Headquarters Re-Opens for Business

Several months after the hurricanes flooded the local dive shop—renovations are complete and the shops is re-opening on Friday, January 7th

Hatt's Diving Headquarters
2006 S. Front Street
Melbourne, FL.
(321) 723-5932

Board of Directors	
President & DUDC Newsletter Editor:	Debi Buck
Vice-President:	Bob Carmichael
Treasurer:	Ed Given
Secretary:	Laurel LeFavor
Membership:	Marty Munnich
Safety Officer:	Phil Kellner
Dive Coordinator:	Michael Wheat
Members At Large:	
Webmaster:	Shannon Anderson
Concession Master:	Tom Butler

DUDC DIVE & EVENT CALENDAR

Event	Time	Location/Charter	Member's Cost	Payment Due Date	Coordinator Phone # / E-mail	
DUDC Club Meeting	Wednesday, 1/12/05 @ 7:30 p.m	Indian River Lagoon House	Free		Martin 253-4713	info@downunderdiveclub.com
DUDC Board of Director's Meeting	Tuesday, 1/25/2005 @ 7 p.m.	Melbourne Public Library—Fee Avenue	Free - open to all members			Contact Any Board Member to Attend
DUDC Club Meeting	Wednesday, 2/9/05 @ 7:30 p.m	Indian River Lagoon House	Free		Martin 253-4713	info@downunderdiveclub.com
DUDC Board of Director's Meeting	Tuesday, 2/22/2005 @ 7 p.m.	Telephone Conference	Free - open to all members			Contact Any Board Member to Attend
West Palm Beach Dive	Saturday, 2/26/2005 @ 8:30 a.m.**	Pura Vida Divers	TBD	2/12/05	Debi 728-7243	dbuck@downunderdiveclub.com
DUDC Club Meeting	Wednesday, 3/9/05 @ 7:30 p.m	Indian River Lagoon House	Free		Martin 253-4713	info@downunderdiveclub.com
DUDC Board of Director's Meeting	Tuesday, 3/22/2005 @ 7 p.m.	Telephone Conference	Free - open to all members			Contact Any Board Member to Attend
West Palm Beach Dive	Saturday, 3/26/2005 @ 8:30 a.m.**	Pura Vida Divers	TBD	2/12/05	Debi 728-7243	dbuck@downunderdiveclub.com

Cancellation Policy for Club Sponsored Dives: Deposits will be refunded with **2 weeks notice** of the scheduled event or with a paid replacement divers. Exceptions can be made in the event of a death in the family or illness with **Board approval**. Money and deposits are refunded when dives are cancelled by the Charter or DUDC.

ALL DIVES MUST BE PAID PRIOR TO THE DAY OF THE DIVE.

If you are interested in running a dive, please contact Michael at 727-1028 for more information.
Divers not belonging to DUDC add \$5

(This calendar is tentative and subject to change.)

Now you can pay for your Club dives, membership fees and merchandise with your credit card. For more details, talk to the dive coordinator or call Ed Given at 255-5587.



DIVE NUMBERS QUIZ

Match to lettered clue

1. One cubic foot of freshwater weighs _____ lbs.
2. There are ____ gallons in one cubic foot of water.
3. 70°F = _____ °C.
4. _____ psi is a common working pressure for aluminum tanks.
5. The three middle digits of DAN's emergency phone number are (919) ____-8111.
6. The maximum rate of ascent is _____ feet per minute.
7. The working pressure of a plus-rated steel tank is _____ psi.
8. One cubic foot of seawater weighs _____ lbs.
9. 60° F = _____ ° Rankine.
10. One foot of seawater exerts a pressure of _____ psi.
11. The common safety stop depth is _____ ft.
12. _____ hrs is the min. time before flying after diving.
13. The minimum elevation for altitude diving is _____ ft.
14. A reciprocal course requires a _____ ° turn.
15. The length of a lunar day is 24:_____.
16. THE VHF emergency frequency is channel.
17. _____ ft is the maximum recommended recreational diving depth.
18. The hydrostatic test pressure for a 3,000 psi tank is _____ psi.
19. Air is about _____% nitrogen.
20. _____ ° is the maximum angle of light reflection on water.
21. One nautical mile = _____ ft.
22. One gallon water weighs _____ lb.
23. Water is about _____ denser than air.
24. The minimum tank pressure when diving is _____ psi.
25. The approximate weight of 1 cf air is _____ lbs.
26. _____ ft is the extreme chamber treatment depth.
27. One atm of pressure is _____ psi.
28. 17° C = _____ ° Kelvin
29. 1 knot = _____ mph
30. _____ foot of freshwater (ffw) = 1 atm
31. _____ ° is the usual temperature below 60 ffw
32. There is a _____ % decrease in the density of water when it freezes.
33. _____ fsw (feet of seawater) = 1 atm
34. One ffw exerts a pressure of _____ psi
35. The speed of sound in water is approximately _____ fpm (feet per minute).

Lettered clues:

- A. 14.7
- B. 62.4
- C. 34
- D. 12
- E. 33
- F. 300
- G. 1,000
- H. 5,000
- I. 15
- J. 130
- K. 16
- L. .08
- M. 165
- N. 39.2
- O. 10
- P. 1.15
- Q. 64
- R. .432
- S. 8.35
- T. 78
- U. 48.5
- V. 21.1
- W. .445
- X. 520
- Y. 290
- Z. 2,475
- AA. 3,000
- BB. 684
- CC. 60
- DD. 180
- EE. 7.48
- FF. 6,080
- GG. 50
- HH. 800
- II. 4,400



ANSWERS ON PAGE 4

December's Prize Winners

Door Prize Winners:

Alan Goodman— Coasters
Tuyet Mintz—Retractor
Riley Audet—Mouse pad
Keith Caldwell — Slate
Steve Leachman — Coozy
Jack Audet—Key Chain

50/50 Winner(s):

NO JACKPOT WINNER—
\$\$ ROLLS OVER TO JANUARY!!!
The Jackpot is up to \$82 with only
34 cards left, the odds are getting
better that someone will be \$82+
richer soon!!!

Door prizes are given away at each club meeting. Come to the meeting and sign-in to win.

Answers to Dive Quiz:

Scoring:

Novice diver:

21-25 Good

26-30 Excellent

31+ Outstanding

Advanced Diver:

26-30 Good

31-33 Excellent

34+ Outstanding

Instructor:

28-30 Good

31-34 Excellent

35 Outstanding

1. **B** — One cf fw weighs 62.4 lbs.
2. **EE** — There are 7.48 gallons in one cf of water.
3. **V** — $70^{\circ} F = 21.1^{\circ} C$
4. **AA** — 3,000 psi is a common working pressure for aluminum tanks.
5. **BB** — The 3 middle digits of DAN's emergency phone number are (919)684-8111.
6. **CC** — The maximum rate of ascent is 60 fpm.
7. **Z** — The working pressure of a plus-rated steel tank is 2,475 psi.
8. **Q** — One cf sw weighs 64 lbs.
9. **X** — $60^{\circ} F = 520^{\circ} R$
10. **W** — One fsw exerts a pressure of .445 psi
11. **I** — The common safety stop depth is 15 ft.
12. **D** — 12 hr is the minimum time before flying after diving.
13. **G** — 1,000 ft is the minimum altitude diving elevation.
14. **DD** — A reciprocal course requires a 180° turn.
15. **GG** — The length of a lunar day is 24:50.
16. **K** — The VHF emergency frequency is channel 16.
17. **J** — 130 ft is the maximum recommended recreational diving depth.
18. **H** — The hydrostatic test pressure for a 3,000 psi tank is 5,000 psi.
19. **T** — Air is about 78% nitrogen.
20. **U** — 48.5° is the maximum angle of light reflection on water.
21. **FF** — One nautical mile = 6,080 ft.
22. **S** — One gallon water weighs 8.35 lbs.
23. **HH** — Water is about 800 times denser than air.
24. **F** — The minimum tank pressure when diving is 300 psi.
25. **L** — The approximate weight of 1 cf air is .08 lbs.
26. **M** — 165 ft is the extreme chamber treatment depth.
27. **A** — One atm of pressure is 14.7 psi.
28. **Y** — $17^{\circ} C = 290^{\circ} K$
29. **P** — 1 kt = 1.15 mph
30. **C** — 34 ffw = 1 atm
31. **N** — 39.2° is the usual temperature below 60 ffw.
32. **O** — There is a 10% decrease in the density of water when it freezes.
33. **E** — 33 fsw = 1 atm
34. **R** — One ffw exerts a pressure of .432 psi.
35. **JJ** — The speed of sound in water is approximately 4,400 fpm.

Dive quiz taken from *Dennis Graver's 100 Best Scuba Quizzes*, © 1997, Aqua Quest Publications, Inc.



DUDC Bulletin Board

Discount for DUDC Members from Narcosis Dive Charters.
Mention that you are from the Down Under Dive Club (and pay in cash), and you can get the club rate of \$45/pp on your personal dives. Check out their website at <http://www.narcosisdivecharters.com/>

Do you have something you're looking to buy, sell, trade or give away or just an announcement you would like to make, drop me a line at dbuck@downunderdiveclub.com and I can put it in the newsletter for you.

WANTED

New Dive Coordinators that Want to Dive For FREE!!!
Contact Michael Wheat for Details (321) 727-1028
Or
mwheat@downunderdiveclub.com.

10% Discount for DUDC Members with Pura Vida Divers.

Pura Vida Divers in Singer Island is offering a discount for all DUDC members. Pura Vida offers daily scuba diving charters, instruction, open water referrals, dive vacation packages, and scuba diving and snorkeling equipment sales, service, and rentals as well as enriched air (nitrox) and air fills.

Contact Pura Vida Divers at (888) DIVE WPB (348-3972) or e-mail at info@puravidadivers.com. Check out the website: www.puravidadivers.com

**Want to receive the newsletter by email & enjoy the newsletter in full color?
Send an e-mail to dbuck@downunderdiveclub.com & ask to be put on the list.**

Please help us update our records by filling out the requested information and return by mail to DUDC, PO Box PO Box 360105, Melbourne Florida or turn it in at the next club meeting.

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Name	DOB	Telephone Number

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Street Address	City	State	ZIP

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E-mail Address	Level of Certification	Agency

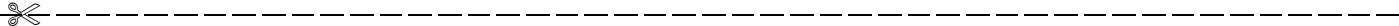
Emergency Contact Information:

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Name of Person to Contact in Case of Emergency	Relationship (<i>I.e.</i> , Friend, Spouse, etc)

Telephone Number

How would you like to receive your monthly newsletter (please check one):

- E-Mail Regular Mail



Down Under Dive Club

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