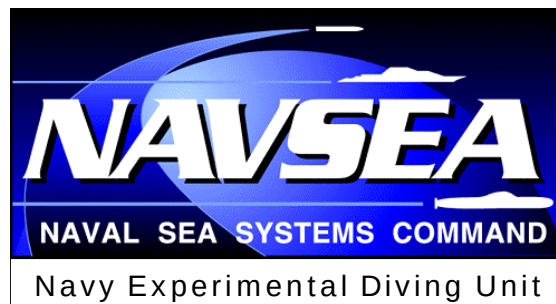


Navy Experimental Diving Unit
321 Bullfinch Road
Panama City, FL 32407-7015

TA 04-14
NEDU TR 11-02
JAN 2011

**ADDITION OF WORK RATE AND TEMPERATURE
INFORMATION TO THE AUGMENTED NMRI STANDARD
(ANS) DATA FILES IN THE “NMRI98” SUBSET OF THE USN
N₂-O₂ PRIMARY DATA SET**



Authors:
DAVID J. DOOLETTE, PhD
WAYNE A. GERTH, PhD
KEITH A. GAULT, MSc

Distribution Statement A:
Approved for public release;
distribution is unlimited.

Report Documentation Page				Form Approved OMB No. 0704-0188	
Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.					
1. REPORT DATE 31 JAN 2011		2. REPORT TYPE Technical Report		3. DATES COVERED 01-01-2004 to 31-01-2011	
4. TITLE AND SUBTITLE (U) Addition of work rate and temperature information to the Augmented NMRI Standard (ANS) data files in the NMRI 98 subset of the USN N2-O2 primary data set				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S) David Doolette; Wayne Gerth; Keith Gault				5d. PROJECT NUMBER	
				5e. TASK NUMBER 04-14	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Navy Experimental Diving Unit,321 Bullfinch Road,Panama City,FL,32407				8. PERFORMING ORGANIZATION REPORT NUMBER NEDU TR 11-02	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) Office of Naval Research, 875 North Randolph Street, Arlington, VA, 22203-1995				10. SPONSOR/MONITOR'S ACRONYM(S) ONR	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribution unlimited					
13. SUPPLEMENTARY NOTES					
14. ABSTRACT The USN N2-O2 primary data set is a collection of dive profiles that the U.S. Navy uses to calibrate probabilistic decompression models for air and N2-O2 diving. Each dive profile describes the depth/time/breathing gas history,number of participating divers, and decompression outcome of experimental dives.Original research reports, research protocols, databases, and diving logs describing the experimental dives were searched for work and temperature information. A subset of the USN N2-O2 primary data set was augmented so that dive profiles included diver whole body oxygen consumption (estimated from descriptions of work performed), work type, posture, water temperature, and diving dress. Two additional data files describing experimental dives that compared working and resting dives were also augmented					
15. SUBJECT TERMS Decompression, work, temperature, TR 11-02					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT Same as Report (SAR)	18. NUMBER OF PAGES 93	19a. NAME OF RESPONSIBLE PERSON
a. REPORT unclassified	b. ABSTRACT unclassified	c. THIS PAGE unclassified			

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE

REPORT DOCUMENTATION PAGE				
1a. REPORT SECURITY CLASSIFICATION Unclassified		1b. RESTRICTIVE MARKINGS		
2a. SECURITY CLASSIFICATION AUTHORITY		3. DISTRIBUTION/AVAILABILITY OF REPORT DISTRIBUTION STATEMENT A: Approved for public release; distribution is unlimited.		
2b. DECLASSIFICATION/DOWNGRADING AUTHORITY				
4. PERFORMING ORGANIZATION REPORT NUMBER(S) NEDU Technical Report No. 11-02		5. MONITORING ORGANIZATION REPORT NUMBER(S)		
6a. NAME OF PERFORMING ORGANIZATION Navy Experimental Diving Unit	6b. OFFICE SYMBOL (If Applicable) O2	7a. NAME OF MONITORING ORGANIZATION		
6c. ADDRESS (City, State, and ZIP Code) 321 Bullfinch Road, Panama City, FL 32407-7015		7b. ADDRESS (City, State, and Zip Code)		
8a. NAME OF FUNDING SPONSORING ORGANIZATION Office of Naval Research [†]	8b. OFFICE SYMBOL (If Applicable)	9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER		
8c. ADDRESS (City, State, and ZIP Code) 875 North Randolph Street Arlington, VA 22203-1995		10. SOURCE OF FUNDING NUMBERS		
		PROGRAM ELEMENT NO.	PROJECT NO.	TASK NO. 04-14
11. TITLE (Include Security Classification) (U) Addition of work rate and temperature information to the Augmented NMRI Standard (ANS) data files in the "NMRI98" subset of the USN N ₂ -O ₂ primary data set				
12. PERSONAL AUTHOR(S) David J. Doolette; Wayne A. Gerth; Keith A. Gault				
13a. TYPE OF REPORT Technical Report	13b. TIME COVERED Jan 2004 TO Jan 2011	14. DATE OF REPORT (Month, Year) Jan 2011		15. PAGE COUNT 92
16. SUPPLEMENTARY NOTATION				
17. COSATI CODES FIELD GROUP SUB-GROUP		18. SUBJECT TERMS Decompression, work, temperature		
19. ABSTRACT (Continue on reverse if necessary and identify by block number) The USN N ₂ -O ₂ primary data set is a collection of dive profiles that the U.S. Navy uses to calibrate probabilistic decompression models for air and N ₂ -O ₂ diving. Each dive profile describes the depth/time/breathing gas history, number of participating divers, and decompression outcome of experimental dives. (continued on reverse)				
20. DISTRIBUTION/AVAILABILITY OF ABSTRACT ☐ UNCLASSIFIED/UNLIMITED ☒ SAME AS RPT. ☐ DTIC USERS		21. ABSTRACT SECURITY CLASSIFICATION Unclassified		
22a. NAME OF RESPONSIBLE INDIVIDUAL NEDU Librarian	22b. TELEPHONE (Include Area Code) 850-230-3170	22c. OFFICE SYMBOL		

DD Form 1473

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE

19. ABSTRACT (Continued)

Original research reports, research protocols, databases, and diving logs describing the experimental dives were searched for work and temperature information. A subset of the USN N₂-O₂ primary data set was augmented so that dive profiles included diver whole body oxygen consumption (estimated from descriptions of work performed), work type, posture, water temperature, and diving dress. Two additional data files describing experimental dives that compared working and resting dives were also augmented.

CONTENTS

	<u>Page no.</u>
Report Documentation Page	i
Contents	iii
Background	1
Data set.....	1
Work coding	3
Water temperature coding	4
Work and temperature coding examples.....	5
Common work calculations	6
Cycle ergometer	6
Cycle ergometer postion	7
Intermittent work and resting oxygen consumption.....	8
Diver characteristics	8
Single air	9
EDU885A.....	9
DC4W	10
DCIEM 80-R-32 and DCIEM 81-R-02	10
DCIEM 82-R-38.....	11
DCIEM 84-R-72 and DCIEM 85-R-18	11
Unreported DC4W dives	12
EDU545	12
Dry dives	13
Wet dives	13
Changes to EDU545	14
EDU545DE	14
EDU545WET	14
NMRNSW2	15
PASA	16
Single non-air	17
EDU885M	17
EDU1180s	17
NMR8697	17
Repetitive & multilevel air	18
PAMLA	18
EDU885AR	18
PARA.....	19
DC4WR	19
Repetitive & multilevel non-air.....	20
EDU184	20
PAMLAOS	22
PAMLAOD	22
EDU885S.....	23

Air + oxygen decompression	23
NMR94EOD.....	23
DC8AOD.....	23
DC8AOW	24
Saturation.....	25
Subsaturation	25
NSM6HR	25
Surface decompression (air)	25
EDU545SUR	25
Dry dives	26
Wet dives	26
Changes to EDU545SUR.....	26
EDU545SURDE	27
EDU545SURWET	27
Surface decompression (oxygen).....	32
DC8ASUR(W).....	32
DCSUREP(W)	34
References.....	34
Appendix A Data file summaries.....	A-1
Single air.....	A-1
EDU885A	A-1
DC4W	A-3
SUBX87	A-7
NMRNSW2.....	A-9
PASA	A-10
EDU545 (wet).....	A-11
EDU545 (dry)	A-13
Single non-air	A-14
NMR8697	A-14
EDU1180S	A-20
EDU885M.....	A-21
Repetitive & multilevel air	A-22
PAMLA	A-22
EDU885AR.....	A-23
PARA	A-24
DC4WR	A-25
Repetitive and multilevel non-air.....	A-26
EDU184.....	A-26
PAMLAOS.....	A-27
PAMLAOD.....	A-28
EDU885S	A-29
Air + oxygen decompression	A-30
NMR94EOD	A-30
DC8AOD	A-32
DC8AOW	A-34
Saturation	A-36

ASATARE	A-36
ASATNSM.....	A-38
ASATEDU	A-39
ASATNMR.....	A-40
Subsaturation	A-42
NSM6HR	A-42
Surface decompression (air).....	A-43
EDU545SUR (wet)	A-43
EDU545SUR (dry).....	A-46
Surface decompression (oxygen)	A-47
DC8ASUR (wet)	A-47
DC8ASUR (dry).....	A-49
DCSUREP (wet).....	A-51
DCSUREP (dry)	A-51

BACKGROUND

The USN N₂-O₂ primary data set comprises machine-readable data files describing experimental manned dives conducted by the U.S. Navy, Royal Navy, and Canadian Forces. Each data file is a collection of dive profiles each describing the depth/time/breathing gas history, number of participating divers, and decompression outcome of a particular dive schedule. This data set is used by the U.S. Navy to calibrate probabilistic decompression models for air and N₂-O₂ diving. The Navy Experimental Diving Unit (NEDU) is developing probabilistic decompression models that incorporate the influence of work rate during different phases of the dive. Calibration of these models will require augmentation of the dive profiles in the USN N₂-O₂ primary data set to include work history. This report describes the augmentation of a subset of the USN N₂-O₂ primary data set to include workⁱ history. In addition to coding work, the opportunity was taken to code water temperature and diver dress information into dive profiles describing immersed dives.

DATA SET

Dive profiles in the USN N₂-O₂ primary data set are collected together into individual files that contain dives of a similar type conducted in the course of one or several closely related dive trials. For instance, the data file DC4W.dat comprises air dives from several trials conducted at the Canadian Defense and Civilian Institute of Environmental Medicine (DCIEM) during the mid 1980s and air with in-water oxygen decompression dives from these same DCIEM trials are contained in the data file DC8AOW.dat. As another example, data file EDU545.dat comprises air dives conducted in the course of one dive series conducted at NEDU in 1945. The most recently published U.S. Navy N₂-O₂ probabilistic decompression model is called “NMRI98”¹ and was calibrated with a subset of the USN N₂-O₂ primary data set. It is this subset that was augmented to include exercise history. In addition, two data files not included in the NMRI98 calibration data set were augmented with work information because these data sets comprise dives from trials conducted specifically to examine the effects of performing work during diving on incidence of decompression sickness (DCS). The data files augmented to include work and temperature information are listed below. These data file names will be appended with and “e” and “t” as appropriate, to signify addition of work (exercise) or temperature information, respectively.

ⁱ Although work has a specific physical definition (SI units kg·m) and is used in this sense in this report, it will also be used interchangeably with the term “exercise” to indicate the act of performing work.

Data file	Work	Data file	Work
Single air		Air + O₂ decompression	
EDU885A	Y	NMR94EOD	Y
DC4W	Y	DC8AOD	N
SUBX87	N	DC8AOW	Y
NMRNSW2	Y		
PASA	Y	Saturation	
		ASATARE	N
Single non-air		ASATNSM	N
NMR8697	Y	ASATEDU	N
EDU1180S	Y	ASATNMR	N
EDU885M	Y		
		Subsaturation	
Repetitive & multilevel air		NSM6HR	Y
PAMLA	Y		
EDU885AR	Y	SURDO2	
PARA	Y	DC8ASUR	Y
DC4WR	Y	DCSUREP	Y
Repetitive and multilevel non-air		Additional (not NMRI98)	
EDU184	Y	EDU545	Y
PAMLAOS	Y	EDU545SUR	Y
PAMLAOD	Y		
EDU885S	Y		

Two previous reports, Naval Submarine Medical Research Laboratory (NSMRL) 1182 / Naval Medical Research Institute (NMRI) 92-85² and Naval Medical Research Center (NMRC) 99-02,³ describe parts of the USN N₂-O₂ primary data set and will be referred to extensively. These reports provide sequentially numbered listings of each dive profile in each data file. This numbering scheme will be preserved to the extent possible in the work- and temperature-augmented data files. Where any individual dive profiles are split into multiple dive profiles (for instance to accommodate differences in work history for individual divers), these dive profiles will be distinguished by appending letters to the original dive profile number.

The NMRI standard format was developed as a concise, machine-readable format for describing depth/time/breathing gas history (dive profile) of a dive.² This format was subsequently augmented providing some additional functionality.⁴ The augmented NMRI standard (ANS) format is described in detail elsewhere.⁴ Briefly, each data file can contain many dive profiles; the first line of each dive profile is a header line of free text that may also include some machine-readable switches, and the second line defines the breathing gas with which the divers' bodies are in equilibrium prior to the dive and, optionally, fields giving the number of divers, decompression outcome, and the time interval of DCS symptom onset. Subsequent lines each give elapsed time; depth (at that point in time); optionally, a new breathing gas; and the time over which the switch to this new gas occurs. The line following the final such depth-time-breathing gas node is an end-of-profile indicator (either -0000.0 or -9999.9). Work and

temperature coding information was added to the dive profile lines describing time-depth-breathing gas nodes.

WORK CODING

In an ANS dive profile, work codes may be located on lines three onward as appropriate, but not on the last line (-0000.0 or -9999.9), in set notation [line 3,last line). If a work code appears, it is in the fifth field. Therefore, for nodes that include a gas switch, the work code follows the gas switch time. The work code applies to the following dive segment: i.e. the work starts at the node (time-depth) on the same line and continues to the node on the next line (or as indicated with the P switch, see below).

The code has multiple elements separated by pipelines. In the following representation, square brackets indicate optional elements:

[aa[bb]c[d][P[##]]][S]

aa: number, any precision, specifying work rate as whole body oxygen uptake ($\dot{V}_{O_2}$), in L/min

bb: integer, specifying work type

Code	Work type
0	Undefined (e.g. multiple work types)
1	Cycle ergometer
2	Weight lifting
3	Fin swimming
4	Treadmill/Running
5	Sled ergometer

c: integer, specifying immersion, 0=dry (not immersed), 1=wet (immersed)

d: integer, specifying posture (body position)

Code	Position
0	Unknown, mixed
1	Upright
2	Prone
3	Supine

The final two elements of the work code, P and S, are switches that override the default behavior whereby the work code applies only to the whole of the dive segment following the current node. The P switch can be used in two ways.

P indicates that the work persists beyond the next node until an explicit stop switch (S, see below), or another work code.

P##, where ## indicates a number of any precision, indicates that work persists from the present node for ## minutes and no stop switch is required.

S (stop switch) turns off a persistent work code. The S switch has the same location requirements as a work code: [line 3,last line) as appropriate, fifth field (note the preceding pipeline is required).

Work codes are optional and a baseline resting $\dot{V}_{O_2}$ is assumed if no explicit work codes are given. If a work code other than an S switch appears, it must consist of at least the aa ($\dot{V}_{O_2}$) component. Elements bb, c, and d are optional, but if noncontiguous elements are specified, all the pipeline separators must be used to indicate empty fields. P and P## are optional. |S appears by itself, with no other work code elements.

WATER TEMPERATURE CODING

Water temperature codes may be located on lines three onward of an ANS dive profile, but not on the last line (-0000.0 or -9999.9), in set notation [line 3,last line). If the temperature code appears, it is in the sixth field. Therefore, for nodes that include a work code, the temperature code follows the work code. The temperature code applies to the dive segment following the node at which it appears: i.e. the temperature starts at the node (time-depth) on the line on which it appears and continues to the node on the next line. However, most commonly, temperature codes include the P and S switches (which behave as described in the Work coding section) and persist through multiple contiguous dive segments.

The temperature code has multiple elements separated by pipelines. In the following representation, square brackets indicate optional elements:

[e|ff|gg|hh|[P[##]]][S]

e: integer, specifying measurement scale, 1=Fahrenheit, 2=Celsius

ff: integer, specifying diving dress

Code	Diving dress
0	Undefined
1	Shorts & T-shirt
2	¼" (6mm) full neoprene wetsuit (or similar)
3	Dry suit
8	Hot water suit

gg: number, any precision, specifying water temperature

hh: number, any precision, specifying skin temperature

The temperature code is optional but as a minimum must have e, ff, gg. Element hh is optional but the pipeline separators must be used to indicate an empty field. P and P## are optional. |S appears by itself with no other temperature code elements. Air temperature is not coded.

WORK AND TEMPERATURE CODING EXAMPLES

The following examples make use of the ANS format comment indicator “!”.

118.0, 40.1, 41.4, DR0006A 3 REPETS= 1

1.000, 2, 0.0,

0.00, 0,,, , 2|2|21||P ! Celsius, 1/4" wetsuit, 21°, persist

0.20, 2,

0.50, 15,

2.60, 114,

2.70, 117,,, 1.0|1|1|1|P ! 1 L/min VO2 cycle ergometer, immersed, upright, persist

3.00, 116,

4.00, 117,,, |S ! stop work

40.10, 118,

41.00, 77,

43.00, 29,

45.00, 26,

49.00, 20,

53.00, 15,

57.00, 12,

57.90, 10,

80.00, 10,

80.10, 9,

80.50, 4,

81.00, 1,

81.50, 0,,, , |S ! stop temperature

1521.50, 0.00,

-9999.0

```

100.0, 85.0, 61.0, 11/24/44 EDU545 LOG 31
  1.0, 1, 1.0, 176.0, 214.0,
  0.00, 0.00,,, , 1|3|58||P !Fahrenheit, drysuit, 58°, persist
  2.00, 100.00,,, 1|2|1|1 ! 1 L/min VO2, weight lifting, immersed, upright
  85.00, 100.00,
  88.00, 30.00,
  94.00, 30.00,
  95.00, 20.00,
  123.00, 20.00,
  124.00, 10.00,
  145.00, 10.00,
  146.00, 0.00,,, . |S ! stop temperature
-0000.0

```

COMMON WORK CALCULATIONS

The work and temperature codes were built from information given in the published reports of the dive trials that underlie the data files and in some cases from consulting the original dive logs. Details of building these codes are given in the sections for each data file. In some cases, estimates of $\dot{V}O_2$ are given in the original reports. In most cases $\dot{V}O_2$ is not given in the reports and was estimated by using known relationships to recorded factors such as heart rate or work rate.

CYCLE ERGOMETER

Many of the data files represent U.S. Navy dive trials that were conducted with divers performing work on underwater cycle ergometers. Originally these ergometers were produced for nonimmersed applications (W. E. Collins; Braintree, MA) and were housed in a custom-built waterproof cases aftermarket. The Collins ergometer has been discontinued, and a similarly designed, hysteresis-braked (HB210, Magtrol; Buffalo, NY) ergometer is built at NEDU. The controller (W. E. Collins; Braintree, MA) applies a current to the hysteresis brake to impose a constant power (work rate indicated in watts) requirement to pedal the ergometer for nonimmersed cycling. The NEDU ergometer and Collins controller and have been carefully characterized.⁵

The relationship between $\dot{V}O_2$ and power required for nonimmersed cycle ergometry work is well characterized⁶ and $\dot{V}O_2$ can be calculated from power in watts (W) as

$$\dot{V}O_2 = 0.01383 \times W + 0.1 \quad \text{Equation 1}$$

The parameters of Equation 1 result from least squares fit ($r^2 = 0.998$) of a straight line to the values given in Åstrand et al. Table 9.5, Oxygen uptake as related to work rate; p. 282.⁶ The polynomial

$$\dot{V}O_2 = 5.4762 \times 10^{-6} \times W^2 + 0.01369 \times W + 0.30536$$

Equation 2

provides a better fit to the lower range of $\dot{V}O_2$ and watts but this equation was not required to code the data files in the present report since work was generally performed at higher power.

Additional work is imposed on an immersed diver by moving the legs and ergometer pedals through the water, flexing any diving dress, and any additional work of breathing due to breathing apparatus.^{5,7,8} The additional power requirement imposed by immersion and wearing a 6 mm wet suit has been reported as 69 watts⁵ and 77 watts⁸ compared to a “dry” setting on the hysteresis brake controller. Remotely pedaling a dry cycle ergometer via a mechanical coupling to underwater pedals, immersed subjects consumed an additional 0.5 L/min of oxygen compared to pedaling the same ergometer at the same power setting on the surface.⁷ Dry suits and hot water suits impose an additional power requirement⁵ but this relationship was not required to code any of the data files in the present report.

The additional diver power requirement imposed by immersion varies with pedalling cadence,⁵ and to minimize variability in total power requirements, most dive trials using the Collins or NEDU ergometers used a target cadence of 60 rpm. At this cadence, $\dot{V}O_2$ for immersed divers wearing T-shirt and shorts or 6mm full wet suit and pedaling NEDU cycle ergometers in a prone position (to mimic fin swimming) can be calculated from the “dry” watts setting on the hysteresis brake controller as^{5,9}

$$\dot{V}O_2 = 0.0152 \times W + 1.335$$

Equation 3

Cycle ergometer position

For dry cycle ergometry, an upright posture is presumed unless otherwise stated. The pedaling position on immersed cycle ergometers is not always explicitly given in the written reports and the following is based on a personal communication from G. Goehring (phone conversation, George Goehring / David Doolette, 23 May 2007). Most dive trials conducted at NEDU since 1980 have used cycle ergometers configured so that divers pedal in a slightly head-up inclination from a prone position, to mimic underwater fin swimming. Prior to 1975, most dive trials at NEDU used an upright position on the cycle ergometer. Similarly, most decompression trials at NMRI used an upright position on the cycle ergometer due to limited space inside the NMRI chamber wet pot. Different ergometer positions were used in different dive trials at NEDU between 1976 and 1980 as the use of the prone position to mimic underwater fin swimming was instigated by Thalmann for underwater breathing apparatus testing.

INTERMITTENT WORK AND RESTING OXYGEN CONSUMPTION

Work was often performed intermittently, particularly in dive trials using cycle ergometry. $\dot{V}_{O_2}$, for a period of intermittent work was calculated from the work/rest duty cycle as the time (t) weighted average of estimated working and resting $\dot{V}_{O_2}$ s:

$$\dot{V}_{O_2} = \frac{(\dot{V}_{O_{2work}} \times t_{work}) + (0.5 \times t_{rest})}{t_{work} + t_{rest}} \quad \text{Equation 4}$$

Resting $\dot{V}_{O_2}$ was assumed to be 0.5 L/min (right-hand term in numerator) to account for immersion, cold, and breathing resistance. For instance, a resting $\dot{V}_{O_2}$ of 0.48 L/min has been measured in dry-suited divers in 40 °F water breathing from MK 16 underwater breathing apparatus with N₂-O₂ diluent at 150 fsw pressure.¹⁰

DIVER CHARACTERISTICS

Anthropomorphic data for the divers who performed the test dive that contributed to these data files was extracted from available reports.

Height		Weight		Age	#divers	Report	Data file	#dives
in	cm	lbs	kg	years				
70.3		177		28	126	NEDU 8-85	EDU885A	483
							EDU885M	81
							EDU885AR	182
							EDU885S	94
69		167	76	25	25	NEDU 5-45 ⁱ	EDU545	85
							EDU545D	6
							EDU545SUR	158
							EDU545SURD	43
	178		80	31	148 ⁱⁱ	NEDU 1-99	PASA	72
							PAMLA	236
							PARA	135
							PAMLAOS	140
							PAMLAOD	134
70		178		29	61	NMRI 86-97	NMR8697	477
				27	50	NSMRL 1200	NSM6HR	57
69.6		169		25	30	NEDU 1-84	EDU184	239
70.2		184		32		NMRI 97-02	NMR94EOD	248

Height		Weight		Age	#divers	Report	Data file	#dives
in	cm	lbs	kg	years				
	177 ⁱⁱⁱ		77 ⁱⁱⁱ	29 ⁱⁱⁱ	196 ⁱⁱⁱ	DCIEM ⁱⁱⁱ	DC4W ^{iv}	244
							DC4WR	12
							DC8AOD	256
							DC8AOW	46
							DC8ASUR	358
							DC8SUREP	69
							NMRNSW2 ^v	91
							SUBX87 ^v	58
						NEDU 11-80 ^{vi}	EDU1180S	120

- i. NEDU TR 5-45 states 25 divers but does not give standard anthropomorphic data; means here from 19 divers sampled from the NEDU diving logs of these dives.
- ii. Reported mean data include one tender not part of data file
- iii. Several DCIEM reports (80-R-32, 81-R-02, 82-R-38, 84-R-19, 84-R-72, 84-R-73, 85-R-18) contribute to these data sets. The anthropomorphic data are grand means across these reports. Diver-subjects counted more than once if common between reports.
- iv. Additional dives not described in the DCIEM reports contribute to this data set; see page 12.
- v. No available report. No diver numbers or anthropomorphic data
- vi. NEDU TR 11-80 does not give number of divers or anthropomorphic data

SINGLE AIR

EDU885A

Coding of this data file was based on information from NEDU TR 8-85.¹¹ The original NEDU diving logs (NEDU Test Plan 84-30) were viewed several times on various issues but not consulted to confirm coding for every dive. Divers worked while at maximum depth (on the bottom) and rested during descent and ascent. Divers wore ¼-inch thick neoprene wetsuits and performed submerged, intermittent (6 minutes work / 6 minutes rest) bicycle ergometer work at 75 watts dry setting at 55-60 rpm. NEDU TR 8-85 provides an estimate of 1.6–1.8 L/min $\dot{V}_{O_2}$ during work for this ergometer setting and 1.0–1.2 L/min $\dot{V}_{O_2}$ for the intermittent work. The $\dot{V}_{O_2}$ estimates were based on an earlier study (NEDU TR 11-78)¹² in which heart rates were measured in five specifically trained subjects performing cycle ergometer work at 75 watts dry setting while immersed, wearing full wetsuit, and breathing from a closed-circuit UBA at 140 fsw. It is possible that the $\dot{V}_{O_2}$ estimates for EDU885A divers are low, since the divers in TR 11-78¹² were specifically trained but the divers participating in TR 8-85 dives were not. For instance, Equation 3 gives a value of 2.5 L/min during work at a 75 watts dry ergometer setting for divers who are not specifically trained, and using Equation 4 with a 50% duty cycle gives an average $\dot{V}_{O_2}$ of 1.5 L/min. Therefore, the high end of the estimated range of $\dot{V}_{O_2}$ for the intermittent work, 1.2 L/min, given in NEDU TR 8-85¹¹ will be used. Although not

specified, a prone position on ergometers will be presumed because of the date of this dive trial. The work code was 1.2|1|1|2 (1.2 L/min $\dot{V}_{O_2}$ |cycle ergometer|wet|prone).

Water temperature was determined by the total dive duration, but there are typographical errors in both NMRC 99-02³ and NEDU TR 8-85¹¹ on this matter. NEDU TR 8-85 gives water temperatures for ranges of total dive times as [≥ 250 min = 65 °F; 249–190 min = 60 °F; 179–80 min = 55°F; ≤ 79 min = 50 °F], which is transcribed in NMRC 99-02 as [≥ 250 min = 65 °F; 249–190 min = 60 °F; 179–180 min = 55°F; ≤ 79 min = 50 °F]. Presumably, [179–180 min] in NMRC 99-02 should read [179–80 min], as it does in NEDU TR 8-85, but in both reports there is a gap between 190 and 179 minutes for which no water temperature is specified. Two dives were found in the NEDU diving logs in this missing time range; these were 60fsw/120 minute decompression dives (with a decompression stop at 10 fsw for 55 min) occurring on 1984/10/18 and 1984/10/26 with total dive times of 184 and 182 minutes, and wet pot water temperatures of 61.4°F and 60.5°F, respectively. It would seem that the correct dive duration/temperature breaks are ≥ 250 min = 65 °F; 249–180 min = 60 °F; 179–80 min = 55°F; ≤ 79 min = 50 °F, and these were used to assign water temperatures to EDU885A. The temperature codes were 1|2|xx||P (Fahrenheit|full wet suit|xx °F||persist).

DC4W

Several DCIEM reports (80-R-32,¹³ 81-R-02,¹⁴ 82-R-38,¹⁵ 84-R-72,¹⁶ and 85-R-18¹⁷), each reporting different dive series, describe most of the dives in the DC4W data file. The work and water temperatures differed between these dive series. All of the dives in these reports could be identified in the DC4W data file.

DCIEM 80-R-32 and DCIEM 81-R-02

In these dive series, wet-suited, submerged divers performed intermittent cycle ergometer at a 50 watts setting. The report estimates this setting to be a real work rate of 100 watts. The reports give no indication of pedaling cadence. Intermittent work duty cycle was 6 minutes work / 6 minutes rest. Equation 1 gives a $\dot{V}_{O_2}$ of 1.5 L/min for a 100 watts dry work rate and using Equation 4 with a 50% duty cycle gives 1 L/min average $\dot{V}_{O_2}$ for the intermittent work. The reports do not indicate the timing of work it was assumed to be on the bottom only for all DCIEM dives unless otherwise indicated. This assumption supported by descriptions of the DCIEM database of chamber dives (CANDID) in NSMRL 1182/NMRI 92-85² (p. 7 of that report). The DCIEM ergometers are upright (personal communication Keith Gault; 2 May 2006). The work code was 1|1|1|1 (1 L/min $\dot{V}_{O_2}$ |cycle ergometer|wet|upright). Water temperature was reported as 18–23 °C, and the median value of 21 °C was used for coding. The temperature code was 2|2|21||P (Celsius|wetsuit|21 °C||Persist).

DCIEM 82-R-38

Wet-suited, submerged, seated divers exercise one arm by performing [biceps] curls of a 2.3 kg weight for longer dives or a 4.5 to 5.5 kg weight for shorter dives. Report cites

that “work load cycle was six minutes of work and two minutes of rest, continuing until the bottom time had elapsed. In addition the wet divers continued to work on the way to the surface.” It was assumed that this work was for all of the bottom time including descent. The lifting cadence was not reported. Although this was designated “moderate to heavy” work, it seems in fact, very light. One of the present authors (DJJ), 42 years (2006/05/15), performed five-pound seated right arm biceps curls at 50/minute (maximum sustainable cadence), not submerged, without a wet suit, and recorded the following heart rates: 3 minutes rest – 48 bpm; 2 min work – 56 bpm ; 4 min work – 56 bpm; 6 min work – 56 bpm. Since heart rate was only marginally elevated above resting in this test, a $\dot{V}_{O_2}$ of 0.6 L/min (just above the 5 L/min diver resting value) was assigned to these dives. The work code was 0.6|2|1|1|P (0.6 L/min $\dot{V}_{O_2}$ |weight lifting|wet|upright|Persist). Temperatures ranged from 5 °C to 8 °C and were tabulated in the reports so that the individual dives could be identified and exact temperatures assigned. The temperature code was 2|2|xx||P (Celsius|wetsuit|xx °C||Persist).

DCIEM 84-R-72 and DCIEM 85-R-18

For each dive, one diver performed upright (personal communication, Keith Gault; 2 May 2006), intermittent cycle ergometer work and one diver performed intermittent static fin swimming. It was not possible to identify which type of exercise was associated with individual dive profiles. Work was controlled to between 50% and 75% of maximum heart rate, depending on dive duration. Working $\dot{V}_{O_2}$ was estimated using Figure 9.10 (p. 289) of Åstrand et al. (2003)⁶, which relates percentage of maximum heart rate (%HRmax) to percentage of maximum $\dot{V}_{O_2}$ (% $\dot{V}_{O_2}$ max), and assuming a maximum $\dot{V}_{O_2}$ ($\dot{V}_{O_2}$ max) of 3.2 L/min, based on the divers mean age of 27 years and using Figure 8.13 (p. 261) of Åstrand et al. (2003), which relates maximum $\dot{V}_{O_2}$ to age. Working $\dot{V}_{O_2}$ and average $\dot{V}_{O_2}$ were estimated for various reported percentages of maximum heart rate and work/rest duty cycles as follows:

Bottom Time (min)	% HRmax	Work/rest (min)	% $\dot{V}_{O_2}$ max	$\dot{V}_{O_2}$ work	$\dot{V}_{O_2}$ average
>60	50%	Continuous	28%	0.9	0.9
31 - 60	65%	10 /10	48%	1.5	1.0
21 - 30	70%	5 /5	55%	1.8	1.2
10 - 20	75%	3 /2	62%	2.0	1.4

The work code was xx|0|1|0 (xx L/min $\dot{V}_{O_2}$ |unknown type|wet|unknown posture). All wet divers wore dry suits. Water temperatures ranged from 6.8 °C to 11.2 °C in 84-R-72 and temperature code 2|3|9||P was assigned to these dives. Water temperature was 10°C in 85-R-18 and the temperature code 2|3|10||P (Celsius|dry suit|10 °C||Persist) was assigned to these dives.

Unreported DC4W dives

All dives described in DCIEM reports 80-R-32,¹³ 81-R-02,¹⁴ 82-R-38,¹⁵ 84-R-72,¹⁶ and 85-R-18¹⁷ could be identified in the DC4W data file, but not all dives in this data file are

described in these reports. Some of these unreported dives were presumed to have been conducted as part of the reported dive series because they were sufficiently similar to reported dive profiles and were conducted about the same time, based on header line notations that sequentially numbered dives in the order they were conducted (personal communication, Keith Gault; 2 May 2006). These dives appeared to be excluded from analysis in the reports because of deviation from the intended dive profile such as early termination of bottom time or substantial delay during descent. Those dives that could be matched to the reported dive series were assigned the same work and temperature code as the dives tabulated in the reports. The remaining dives were nonworking, diving equipment tests conducted during 1978 and 1979 (E-mail, Ron Nishi / David Doolette, Re: N₂-O₂ diving database, 4 June 2007), so none of these dives were assigned work codes. A description of these dives extracted from the DCIEM CANDID database gave water temperatures for many of the dives and suit codes for some of the dives (E-mail, Ron Nishi / David Doolette, Re: N₂-O₂ diving database, 28 June 2007), and these dives were assigned relevant temperature codes. Several DC4W dive profiles could not be identified and were not assigned temperature and work codes. Work and temperature codes of the unreported DC4W dive profiles were assigned as follows:

DC4W profile #	DCIEM series	CANDID printout	Work code	Temperature code
1-18	80-R-32		1 1 1 1	2 2 21 P
19-28	81-R-02		1 1 1 1	2 2 21 P
87-89,93-126	82-R-38		0.6 2 1 1 P	2 2 CC P
62-74	84-R-72		xx 0 1 0	2 3 9 P
80,82,83	85-R-18		xx 0 1 0	2 3 10 P
29-61	Equipment test	Yes	N/A	Various
75,76	84-R-72?	Yes	None	None
77	Training	Yes	None	None
75-79	85-R-18?	Yes	None	None
81,84	85-R-18		xx 0 1 0	2 3 10 P
85, 86	Unidentified		None	None
90-92	82-R-38/A?		None	None
141,142	Equipment test	Yes	N/A	1 3 39 P
143	Unidentified		None	None

N/A: not applicable; None: none assigned

EDU545

These dives are part of a study that tested decompression schedules following either work or rest while on the bottom, and they are reported in NEDU TR 5-45.¹⁸ The original NEDU diving logs (1944 numbers 31 and 32) were searched to identify working and resting dives, and water temperatures in the EDU545 data file. This search was done at the same time for the EDU545SUR data file (see page 25), which comprises surface decompression dives that were part of this same dive series. This search revealed inconsistencies between the NEDU diving logs and the existing EDU545 and

EDU545SUR data files as reported in NMRC 99-02.³ These inconsistencies were resolved in the work-augmented data files. NEDU diving logs 31 and 32 contain dive data sheets, each representing a single man-dive. These individual data sheets are annotated in with two numbering systems, one written in red pencil and one in blue pencil. The blue numbers were used to identify NEDU diving log dives in the present report.

Dry dives

The standard (in-water) decompression dives that comprise EDU545 are all reported in NEDU TR 5-45 as wet, working dives. Although NEDU TR 5-45 reports 18 dives at 100 fsw, 24 standard decompression dives to 100 fsw were found in NEDU diving logs. Eighteen of the 24 dives in the NEDU diving logs had water temperatures noted. Four of these 24 dives (45b, 46b, 47, and 48) had notations in the NEDU diving logs indicating that they were dry dives, including that work was cycle ergometry, as described in NEDU TR 5-54 for dry, surface decompression dives. The remaining two of the six dives, 45a and 46a, were conducted on the same dates as (and unusually logged on the same pages) as dry dives 45b and 46b, respectively. Although not having notations regarding work or dry, 45a and 46a were assumed to be also dry, working dives. These six man-dives were extracted into a file named EDU545DE.dat (with “D” indicating dry). The original dive profile numbers that appear in NMRC 99-02³ were retained in this data file. For these dry dives, the work code assigned to the single segment bottom time was 0.8|1|0|1 (0.8 L/min $\dot{V}_{O_2}$ |cycle ergometer |dry|upright). A description of how this work rate was estimated is given for data file EDU545SUR in the Surface decompression (air) section on page 26.

Wet dives

The wet dives were coded for work and water temperature and the file was named EDU545WET.dat (with “W” indicating wet). Work was lifting a 70lb weight (58 lb submerged weight) from the deck to a 26-inch high bench 10 times per minute. Work was assumed to be only while on the bottom: “Weight lifting was performed while on bottom instead of bicycle riding as was done in the dry chamber dives.”¹⁸ An approximate power calculation was based on the following. One of the authors (DJD, 42 year old male, 152 lb body weight, 5 ft 7 inches tall) lifted a 60 lb dumbbell from the floor to a 26-inch high bench 10 times per minute on the surface, dry. Heart rate rose from a resting value of 55 bpm to 112 bpm at the end of five minutes work. Heart rate of 112 bpm is estimated to indicate a $\dot{V}_{O_2}$ of 1.6 L/min from Figure 9.6 (p. 284) of Åstrand et al (2003).⁶ Alternatively, the work of this weight lift was calculated as follows. Lifting the weight to the bench using the knees requires lifting both the weight (58 lbs = 26.4 kg) and the body weight (152 lbs = 69.1 kg) 26 inches (0.66 m). The work of one lift is 93.5 kg x 0.66 m = 61.7 kgm. Power for 10 lifts per minute is 61.7 kgm x 10 = 617 kgm/min. The conversion to watts is 617 kgm/min x 0.1634 = 101 watts. Using Equation 1, 101 watts requires a $\dot{V}_{O_2}$ of 1.5 L/min. The work code used for the wet dives is 1.5|2|1|1 (1 L/min $\dot{V}_{O_2}$ |weight lifting|wet|upright). Temperature codes for water temperature 1|3|xx||P (Fahrenheit|dry suit|xx °F||persist). If no temperature was given for a particular wet dive it was noted (“NO TEMP”) in the dive profile header line.

Changes to EDU545

The following tables summarize changes to EDU545 resulting from splitting into data files EDU545DE and EDU545WET, distinguishing between working and resting dives, incorporating water temperature, and correcting inconsistencies between the original EDU545 data file and the original NEDU diving logs.

EDU545DE

EDU545DE profile #	Action	Reason
1,2,17	unchanged	
18	Sub a	Split (both wet and dry dives)

EDU545WET

EDU545WET profile #	Action	Reason
3-16, 20-22, 24-29, 32-34, 38, 39, 41,42	unchanged	
18	Split b-e	T, subtract 6 (3 dry dives, 1 DCS - see dive profile 44, 2 unidentified)
19	Split a,b	One with no temperature
23	Split a-c	T
30	Deleted	NEDU diving log dive #202 ⁱ
31	Deleted	NEDU diving log dive #203 ⁱⁱ
35	Split a, b	T ⁱⁱⁱ
36	Split a,b	3 no temp, 1 (167) temp inferred from pair (166)
37	Split a-d	T, no T
40	Split a-e	T, no T
43	New	NEDU diving log dive #117
44	New	NEDU diving log dive #279 ^{iv}

T indicates split of dive profile because of different water temperatures

- NEDU diving log dive #202 is a surD dive mistakenly coded as a standard decompression dive, moved to EDU545SURWET data file.
- NEDU diving log dive #203 is a surD dive mistakenly coded as a standard decompression dive, moved to EDU545SURWET data file.
- Split on temperature. Note also that these are NEDU diving log dives #161–164. These dives are a 40-minute bottom time decompressed on the 150/:50 schedule; dive #161 has marginal note: “First 4 cases on 150 brought out on 16-28-32 on 40 min runs. All others on 150ft for 38 mins using 28-30.”
- NEDU diving log 31 dive #279 was mistakenly assigned no DCS and was one of 13 divers in EDU545 data file dive profile 18. The medical narrative was written on the back of the log page and previously mistakenly assigned to the dive on the facing page (#138), which is a surD dive in data file EDU545surt, now correctly assigned as not DCS in EDU545SURWET data file. See Surface decompression (air), EDU545SUR, note 1 on page 28 for more information. EDU545WET dive profile 34 was assigned the outcome as DCS [1.0], T1 = 156, T2 time = 176. T2 is based on the narrative in the NEDU diving log for dive #279: “Upon surfacing this subject complained of moderate

skin itch of both forearms without rash. Itch seemed to be confined to arms below level of elbows. This remained about 30–40 minutes and finally disappeared. About ½ hour after dive subject noticed some soreness of his left shoulder over humeral head. Within the following ½ hour this soreness become worse and traveled downward over the deltoid region, and over the triceps muscle as far as the elbow. He was compressed @ 1231 (1 hour 35 min after surfacing) and obtained relief at 32 feet. Taken to 100 feet and decompressed as follows; 100 f (reached 1235) 30 min; 80 ft 12 min; 60 ft 30 min O₂; 50 ft 30 min O₂; 40 ft 30 min O₂; surfaced 5 min O₂; reached surface 1451. No further complaints.” The T1 time was surfacing plus 10 minutes according to standard rules.¹⁹

The following table summarizes the number of man-dives described in NEDU TR 5-45, recorded in NEDU diving logs, coded in the original EDU545, and coded in the work- and temperature-augmented data files.

fsw	TR 5-45	NEDU logs	Original	Revised	Notes
100	18	24	26	24	24 in NEDU diving logs include 6 dry dives not in TR 5-45
130	22	22	21	22	
150	21	25	27	25	25 in NEDU diving logs include 4 150/:40 dives not include in TR 5-45. 2 extra dives in original file are surD dives moved to EDU545SURWET data file
170	20	20	20	20	

Original refers to EDU545sur.dat, electronic version described in part in NMRC 99-02.³ Revised refers to EDU545SURDE.dat and EDU545SURWET.dat.

NMRNSW2

There is no comprehensive report of these dives although some are reported in a scientific meeting abstract,²⁰ which has insufficient detail for work and temperature coding. However, the original NMRI Protocol 88-08²¹ and revised Protocol 88-06A²² and two associated NMRI diving logs were found in the NEDU library. Dives conducted under the original protocol were dry chamber dives comparing no-stop limits with chamber environment and breathing gas of either air or 79% He-21% O₂. The initial results lead to a revision of protocol that changed the focus of the study to compare wet and dry dives breathing air and other N₂-O₂ and He-O₂ mixtures. NMRNSW2 data file dive profiles describe air dives and NMRC 99-02³ indicates divers were immersed, so these dives must therefore have been conducted under the revised protocol. NMRI Protocol 88-06 states that the use of “Intermittent exercise at an oxygen consumption of 1 to 1.5 L/min will be done for approximately one half of the total bottom time. Exercise will stop at least 5 minutes before direct ascent to the surface.” A table on page A-17 of NMRI Protocol 88-06A and examination of the log books indicate that this means a 50% duty cycle throughout the time on the bottom. Duty cycle was 10 minutes work / 10 minutes rest, with some times a final 5/5 cycle so that divers stopped work between 10 and 20 minutes before ascent. For work coding, no account was taken of this extended final rest period but rather an average oxygen consumption for the time on the bottom was assumed. Work load was indicated in Protocol 88-06A as “In water, exercise will

be performed at 100 watts on 70–300 minute dives; at 360 minute the work rate will be reduced to 75 watts. This is 25 watts less than used for the dry dives, which compensates for moving legs through the water.” This indicates that a “dry” cycle ergometer watt setting was used. Equation 3 gives 2.9 L/min $\dot{V}_{O_2}$ for work periods at 100 watts dry setting and Equation 4 give 1.7 L/min $\dot{V}_{O_2}$ average $\dot{V}_{O_2}$ for the intermittent work at 50% duty cycle. For a 75 watts ergometer setting $\dot{V}_{O_2}$ calculates as 1.5 L/min for the intermittent work. The reported value of 1.5 L/min in NMRI Protocol 88-06A was used for work coding for all dives. The work code assigned was 1.5|1|1|1 (1.5 L/min $\dot{V}_{O_2}$ |cycle ergometer|immersed|upright). Water temperatures were specified in NMRI Protocol 88-06A based on total dive time as: 60 °F for 70–140 minutes; 65 °F for 240–360 minutes; and 70 °F for greater than 360 minutes. The temperature code was 1|2|xx||P (Fahrenheit|wetsuit| xx°F||persist).

PASA

Coding of this data file was based on information in Joint NEDU (1-99) / NMRC (99-01) Technical Report,²³ which describes intermittent (10 minutes work / 10 minutes rest) electrically-braked cycle ergometer work but does not indicate ergometer watt setting. The report gives $\dot{V}_{O_2}$ estimates as 1.6 to 1.8 L/min during work and 0.48 L/min rest. This results in an average $\dot{V}_{O_2}$ for intermittent work of $(1.7+0.48)/2 = 1.1$ L/min, analogous to Equation 4 except for the slightly lower estimate of resting $\dot{V}_{O_2}$. Phase 1a dives were conducted at NMRC and an upright position on the cycle ergometers was assumed for work codes. All other phases (1b, 2, 3) were conducted at NEDU during 1991 and 1992, and a prone (swimming position) cycle ergometer configuration was assumed for work codes. From the technical report description of the phases, it was possible to identify that PASA data file dive profiles 1–23 were conducted at NEDU, and dive profiles 24–26 were conducted at NMRC; work codes 1.1|1|1|1 and 1.1|1|1|2 (1.1 L/min $\dot{V}_{O_2}$ |cycle ergometer|immersed|upright or prone) were to these dive profiles, respectively. Divers wore ¼-inch full wetsuits, and water temperatures were based on total dive time with the breaks as follows: ≤90 min = 55°F; 91–200 min = 60°F; 201–300 min = 65°F; 301–480 min = 70°F; >480 min = 75°F. The temperature codes assigned were 1|2|xx||P (Fahrenheit|wetsuit|xx°F||persist).

SINGLE NON-AIR

EDU885M

This data file arises from the same dive series¹¹ as the EDU885AET data file and has the same work and temperature codes, see Single air, EDU885A page 9 for details. Work code for these dives was 1.2|1|1|2 (1.2 L/min $\dot{V}_{O_2}$ |cycle ergometer |wet |prone). The temperature code was 1|2|xx||P (Fahrenheit|¼” wet suit|xx °F||persist).

EDU1180S

Work and temperature codes were based on NEDU TR 11-80.²⁴ Work was intermittent cycle ergometer exercise stated as "...2 subjects at a time exercised on underwater bicycle ergometers for periods of 10–20 minutes at work rates of 25-50 watts, after which two new subjects took their turn on the ergometer. This rotation continued throughout the entire dive profile.... The 25–50 watts load was estimated from previous exercise studies to produce oxygen consumptions of 0.8–1.25 L/min." With 10 subjects per dive, there were substantial rest periods between work, but it was not possible to identify the work/rest timing so an average $\dot{V}_{O_2}$ calculated using Equation 4 with a work $\dot{V}_{O_2}$ in the middle of the reported estimate (1 L/min) along with a 1:4 (work/rest) duty cycle, was applied to the entire dive profile. The reported $\dot{V}_{O_2}$, which is presumably for the work only, is quite low in comparison to what would be given by Equation 3 but such higher estimates would only give a slightly higher average $\dot{V}_{O_2}$ for the intermittent work because of the low work/rest duty cycle. A prone ergometer position was assumed for work codes. The work code was 0.6|1|1|2|P (0.6 L/min $\dot{V}_{O_2}$ |cycle ergometer|immersed|prone|persist). Water temperatures are listed as 73–78 °F in the report Abstract and as 73–80 °F in the report Methods section, and a value of 71 °F was used for the temperature code for all dives. The divers were reported to use 3/8-inch wetsuits, but will use the code for 1/4-inch wet suit (code 2). The temperature code was 1|2|76||P (Fahrenheit|1/4" wet suit|71 °F||persist). Both work and temperature codes were added to same line as the existing gas switch code.

NMR8697

NMRI Report 86-97²⁵ describes intermittent work on a sled ergometer. This ergometer had spring-loaded pedals which extended from 28 to 44 inches over which range the spring tensions increased from 6.6 to 13.5 lbs. Subjects exercised at 50 repetitions per minute for intervals of 5 minutes separated by 3 minutes rest, with an additional 10 minute break every hour. $\dot{V}_{O_2}$ of 1 to 1.5 L/min were reported for two subjects, although it is not clear if this value is for the intermittent work or the work period only, the former was assumed. A $\dot{V}_{O_2}$ of 1.25 L/min was used for coding. Work was assumed to be on the bottom only based on the statement in the Methods/Facilities section of Report 86-97: "While at depth, subjects exercised...." The work code was 1.25|5|1|1 (1.25 L/min $\dot{V}_{O_2}$ |sled ergometer|immersed|upright). Water temperature was 69–72 °F "except for the long dives when a rise to 76 °F was allowed for divers with significant susceptibility to cold." Since there was no indication of which dives fell into the latter category a temperature of 71 °F was used for all dives. Divers used 1/4-inch wetsuits with some additional layers if they expected to be cold. The temperature code was 1|2|71||P (Fahrenheit |1/4" wetsuit|71 °F||persist).

REPETITIVE & MULTILEVEL AIR

PAMLA

Coding of this data file was based on information in Joint NEDU (1-99) / NMRC (99-01) Technical Report²³ and additional details are given in the section describing coding of the PASA data file (see page 16 in the Single air section) which is part of the same dive series. NEDU diving logs (Test Plan 91-22 10 July 1991 – 17 Sept 1991) were also consulted. Work was intermittent cycle ergometry with estimated average $\dot{V}_{O_2}$ of 1.1 L/min. All PAMLA dives were conducted during phases 1b and 3 at NEDU, so a prone cycle ergometer position was assumed for work codes. These were multilevel dives with two deep excursions to the same depth (80, 60 or 50 fsw), except for dive profiles 33 and 41 which were aborted after the first excursion, separated by stops and/or shallow transit at 30 fsw. The report states (pages 14–15) that “Divers exercised...during the entire time at depth....Divers rested in an upright position during decompression stops, transits, and during depth changes.” NEDU diving logs do not consistently indicate work periods but generally record that work was performed only during the deep excursions. The work code 1.1|1|1|2

(1.1 L/min $\dot{V}_{O_2}$ |cycle ergometer|immersed|prone), was applied only to deep excursions. Divers wore 1/4-inch full wetsuit and water temperatures were based on planned total dive time with the breaks as follows: ≤90 min = 55°F; 91–200 min = 60°F; 201–300 min = 65°F; 301–480 min = 70°F; >480 min = 75°F. Except for dive profiles 48 and 49, water temperature was also noted in the NEDU diving logs. The temperature codes assigned were 1|2|xx||P (Fahrenheit|wetsuit|xx°F||persist), with xx taking the following values: dive profiles 1–12, 22–47 (70 °F); dive profiles 13–21 (65 °F); and dive profiles 48–50 (75 °F). The following profiles were coded with different temperatures than indicated by dive profile duration:

PAMLAET profile #	TR 1-99 / 99-01 ID	Action	Reason
33	PAA1C301AB	Coded as 70 °F	Diver abort at 194 min (vs 359) ⁱ
41	PAA1EO2AB	Coded as 70 °F	Diver abort at 140 min (vs 450) ⁱ
48	PAAIIIA01	Coded as 75 °F	Dive 478 min (vs 482 planned) ⁱⁱ

i. Single diver aborted from planned longer dive.

ii. One of three dives planned at 482 minutes according to TR 1-99 / 99-01, but no record for any of the three dives in the NEDU diving logs

EDU885AR

This data file arises from the same dive series¹¹ as the EDU885AET data file, and has the same work and temperature codes, see Single air, EDU885A page 9 for details. The work code assigned to these dives was 1.2|1|1|2

(1.2 L/min $\dot{V}_{O_2}$ |cycle ergometer|wet|prone). Water temperatures were set according to dive duration as given for EDU885A on page 9. NEDR 8-85 states that “...the water temperature was set according to the shortest in-water segment of dive, surface intervals were not considered....” The temperature codes were 1|2|xx||P (Fahrenheit|1/4” wet suit|°F||persist).

PARA

Coding of this data file was based on information in Joint NEDU (1-99) / NMRC (99-01) Technical Report²³ and additional details are given in the section describing coding of the PASA data file (see page 16 in the Single air section) which is part of the same dive series. NEDU diving logs (Test Plan 91-22 10 July 1991 – 17 Sept 1991) were also consulted. Work was intermittent cycle ergometry with estimated average $\dot{V}_{O_2}$ of 1.1 L/min. PARA dive profiles 1–9 were conducted during Phase 1b at NEDU and a prone cycle ergometer position was assumed for work codes. Dive profiles 10–36 are Phase 1a dives conducted at NMRC and an upright cycle ergometer position is assumed for these work codes. The work codes were 1.1|1|1|1 and 1.1|1|1|2 (1.1 L/min $\dot{V}_{O_2}$ |cycle ergometer|immersed|upright or prone).

Water temperature was based on planned dive time: ≤ 90 min = 55°F; 91–200 min = 60°F; 201–300 min = 65°F; 301–480 min = 70°F; >480 min = 75°F. Joint NEDU (1-99) / NMRC (99-01) Technical Report²³ states that “The water was chilled (± 2 °F) according to single-dive in-water time” (page 16). That single, rather than combined, dive time was used to determine water temperature was confirmed in the original NEDU diving logs which show, for instance, that the wet pot temperature was 55 °F (target for ≤ 90 min dive time) for a series of three no-stop dives to 60 fsw for bottom times of 63.7, 28, and 28.2 minutes, totaling 119.9 minutes (test schedule A1b). The report does explicitly state whether water temperature was unchanged for repetitive dives, and if so, which single-dive time was used to select water temperature and the NEDU diving logs are unhelpful in this respect since all PARA dives conducted at NEDU (phase 1b) were short bottom time (<90 min), no-stop dives with target temperature of 55 °F. However, it is unlikely that water temperature was changed between repetitive dives at NMRC, because considerable time is required to alter wet pot temperature. To code these other dive profiles in the PARA data file, it was assumed that water temperature was selected according to the shortest in-water time, as was done by one of the principal investigators (Thalmann) in an earlier study of repetitive dives.¹¹ Divers wore ¼-inch full wetsuit. The temperature code was 1|2|xx|P (Fahrenheit|¼” wet suit|xx °F|persist), with xx taking the following values: dive profiles 1–9, 22–36 (55 °F) and dive profiles 10–21 (60 °F).

DC4WR

All the dives in this data file were conducted as part of a dive series described in DCIEM report 84-R-72¹⁶ and the data coding for this report is described in detail on page 11 of the section describing the DC4W data file in the Single air section. For each dive, one diver performed upright, cycle ergometer work and one diver performed a static swim and it was not possible to identify the type of exercise for individual dive profiles. Work was controlled to between 65% and 75% of maximum heart rate at the surface, depending on bottom time. The work code was xx|0|1|0 (xx L/min $\dot{V}_{O_2}$ |unknown type|wet|unknown posture). It was assumed for the purpose of coding that the heart rate target was chosen separately for each dive of a repetitive series, although it is not clear in the report if this was the case. Water temperatures

ranged from 6.8 °C to 11.2 °C in 84-R-72 and temperature code 2|3|9||P (Celsius|drysuit|9 °C||Persist) was assigned.

REPETITIVE & MULTILEVEL NON-AIR

EDU184

Work and temperature coding of this data file were based on the descriptions given in NEDU TR 1-84²⁶ and on viewing of NEDU diving logs (NEDU Test Plan 80-29, UDC Bounce dive and Rx of same, July 24 1980 – 8 Sept 1980). Electrically-braked cycle ergometer work at 75 watts, no cadence stated, with a duty cycle of 6 minutes work / 6 minutes rest was performed on the bottom. NEDU TR 1-84 gives an estimated $\dot{V}_{O_2}$ for the intermittent work of 1 L/min based on previously reported measurements of 1.6–1.8 L/min for the work and 0.48 L/min for rest.¹⁰ Prone ergometer position was assumed for work codes. The work code 1|1|1|2 (1 L/min|cycle ergometer|immersed|prone) was assigned to the time at bottom.

Divers also exercised during selected surface intervals, which were identified in Table 9 of NEDU TR 1-84 and described in the text as follows: “If a repetitive dive was to follow, the divers ran 4 miles (at 8–9 minutes/mile) during selected surface intervals. If there were two repetitive dives following the initial dive, divers ran during both surface intervals. If there were three repetitive dives after the initial dive, divers ran during the first and third surface interval.” Based on this text, the omission of an indication of exercise during the second of the two surface intervals of test schedule 24 of Table 9 of NEDU TR 1-84 was assumed to be a typographical error. This is supported by the NEDU diving log for 1980-08-13 which appears to have been planned as test schedule 24 (150/27-150/24-100/ND) where it is noted that diver #5 had a reverse squeeze on the second dive, completed the surface interval run, but did not participate in third dive. An 8–9 minute mile is equivalent to 6.7–7.5 mph and running at 7 mph requires $\dot{V}_{O_2}$ of 2.8 L/min based on Figure 17.2 of Åstrand et al. (2003).⁶ It requires 34 minutes to travel four miles at 8.5 minutes/mile. The NEDU diving logs note several times that the run was 3.2 miles and, in one case notes that the run was about 20 minutes duration. It requires 27.5 minutes to travel 3.2 mile s at 8.5 min/mile. A work period of 30 minutes was assumed to start at the end of a 10-minute “clean time” and was coded by inserting two additional nodes into the surface intervals and assigning the code 2.8|4|0|1 (2.8 L/min $\dot{V}_{O_2}$ |running|dry|upright) to the new segment. Several NEDU diving log notations indicate that divers did not always complete the run and these were coded as being 15-minute durations. These partial runs and other nonstandard coding based on NEDU diving log notations are as follows:

EDU184.dat profile #	Action	Reason
4	Split a-d	Some divers did not run ⁱ
8	none ⁱⁱ	Aborted profile, see profile 9
10	modified	Incorrectly coded ⁱⁱⁱ

14	none ^{iv}	
19,20	SI work after last dive	Aborted profile, see profiles 23-24
22	SI work after last dive	Aborted profile, see profiles 23-24
24	Changed last node	See note ^v
25	No work in second SI SI work after last dive	Aborted profile, see profile 26
28	No work in second SI	Aborted profile ^{vi} , see profile 29
32	SI work after last dive	Aborted profile, see profiles 33-34
38	Split a-c	Some divers did not run ^{vii}

SI: surface interval

- i. One diver did partial first run (1st SI) did not do second run (3rd SI). Another diver did partial runs both SI. One diver did partial first run (apparently got better).
- ii. Diver removed from diving by medical officer due to complaint (not DCS) 14 minutes following dive 1, presume did not run.
- iii. NEDU diving log shows that diver 10 suffered ear squeeze on descent and was transferred from the OSF wet pot to Bravo chamber at 43 fsw (not 47 as with the added depth of water) and did not continue to 80 fsw with other divers as indicated in EDU184 data file. Assumed began air breathing upon leaving wet pot. Reach surface time given in log. Assumed no run on surface following. Altered dive profile header line to reflect this change.
- iv. Several subjects observed not running during SI; not indicated how many – leave dive profile with standard coding.
- v. All divers who completed schedule without DCS were nonetheless treated prophylactically on U.S. Navy Treatment Table 5. The SI of 20 minutes in the EDU184 data file appears to be based on the last recorded time in the computer file of that dive.¹⁹ NEDU diving log gives a reach surface time for the last dive of 15:29 and a leave surface time for the treatment table of 16:01, which gives 32 minute SI.
- vi. Diver suffered squeeze during third of four planned dives; NEDU diving log states that the diver was examined by DMO during SI (presume this means he was not running) and was removed from further diving.
- vii. Two divers did partial first and second runs (first and third SI). One diver did partial second run (third SI)

Temperatures for the planned schedules are given in Table 9 of NEDU TR 1-84. The temperature code was 1|2|xx|P (Fahrenheit| $\frac{1}{4}$ " wet suit| xx°F|persist).

PAMLAOS

Coding of this data file was based on information in Joint NEDU (1-99) / NMRC (99-01) Technical Report,²³ and additional details are given in the section describing coding of the PASA data file (see page 16 in the Single air section), which is part of the same dive series. NEDU diving logs (Test Plan 91-22, 10 July 1991 – 17 Sept 1991, and Test Plan 91-35, 13 Nov 1991 – 11 Feb 1992) were also consulted, and all dives contributing to this data file and described in the technical reports were identified. Work was intermittent cycle ergometry with an estimated average $\dot{V}_{O_2}$ of 1.1 L/min. All PAMLAOS dives were conducted at NEDU during phases 2 and 3 of this dive series. The dives were all multilevel with two or three deep excursions (40, 60 or 80 fsw) separated by decompression stops and/or shallow periods at 30 fsw (breathing 36.7% O₂, 0.7 atm constant PO₂) or at 15 fsw (breathing 48.3% O₂). The divers were reported (Joint NEDU (1-99) / NMRC (99-01) pages 14–15) to have “exercised...during the entire time at depth” and “rested in an upright position during decompression stops, transits, and

during depth changes.” The NEDU diving logs do not consistently indicate work periods but generally record that work was performed only during the deep excursions. The work code 1.1|1|1|2 (1.1 L/ min $\dot{V}_{O_2}$ |cycle ergometer|immersed|prone) was applied only to the time at depth during the deep excursions.

Water temperature was based on planned dive time: ≤ 90 min = 55 °F; 91–200 min = 60 °F; 201–300 min = 65 °F; 301–480 min = 70 °F; >480 min = 75 °F. Based on these breaks, dive profiles 1–8 were assigned 70 °F and dive profiles 9–24 were assigned 75 °F. These assignments were confirmed by notations in the NEDU diving logs where water temperature was generally recorded. Data file PAMLOAS dive profile # 17, PAAIIIDO1AD, TR 1-99 phase 3, was temperature coded as 75 °F, despite a 287 min dive duration. This dive profile describes a diver aborted just prior to the third excursion of a D3 (planned) 650-minute profile. The temperature code was 1|2|xx||P (Fahrenheit| $\frac{1}{4}$ ” wet suit|xx °F||persist).

PAMLAOD

Coding of this data file was based on information in Joint NEDU (1-99) / NMRC (99-01) Technical Report²³ and additional details are given in the immediately preceding section describing coding of the PAMLAOS data file and in the section describing the PASA data file (see page 16 in the Single air section) which are part of the same dive series. NEDU diving logs (Test Plan 91-22 10 July 1991 – 17 Sept 1991) were also consulted, and all dives contributing to this data file and described in the technical reports were identified. Work was intermittent cycle ergometry with estimated average $\dot{V}_{O_2}$ of 1.1 L/min. All PAMLAOD dives were conducted at NEDU during phase 2 of this dive series. The dives were all multilevel with two deep excursions (60 or 80 fsw) separated by decompression stops and/or shallow periods at 15 or 30 fsw. The second excursion required decompression stops at 20 and 10 fsw during which divers breathed 48.3% O₂. The work code 1.1|1|1|2 (1.1 L/ min $\dot{V}_{O_2}$ |cycle ergometer|immersed|prone) was applied only to the time at depth during the deep excursions.

Water temperature was based on planned dive time: ≤ 90 min = 55°F; 91–200 min = 60°F; 201–300 min = 65°F; 301–480 min = 70°F; >480 min = 75°F. Based on these breaks, dive profiles 1–10 were assigned 70 °F and dive profiles 11–20 were assigned 75 °F. These assignments were confirmed by notations in the NEDU diving logs where water temperature was generally recorded. The temperature code was 1|2|xx||P (Fahrenheit| $\frac{1}{4}$ ” wet suit|xx °F||persist). PAMLOAD data file dive profile 8 describes a dive with symptoms of DCS occurring in-water. The dive profile describes an ascent from 10 to 3.5 fsw and then a gas switch to air breathing as the diver moves from the wet pot to D chamber, and the |S code (end water temperature information) was added at this node.

EDU885S

This data file describes dives from the same experimental series¹¹ as the EDU885AET data file, and has the same work and temperature codes, see Single air, EDU885A

page 9 for details. Dive profiles 1–4, 13, 14 are bounce dives and the remaining dive profiles are multilevel dives with deep excursions separated by periods at 20 fsw. Divers switched from breathing 0.7 atm constant PO₂ (MK 15) to air while on the bottom during the deep excursions. According to the NEDU diving logs (NEDU Test Plan 84/30) the work started at approximately the same time (± 1 minute) as the breathing gas switch. The work code 1.2|1|1|2 (1.2 L/min $\dot{V}_{O_2}$ |cycle ergometer|wet|prone) was added to the same node as the switch to breathing air. Water temperatures were set according to dive duration as given for EDU885A on page 9. The temperature codes were 1|2|xx|P (Fahrenheit | $\frac{1}{4}$ " wetsuit |°F|persist).

AIR + OXYGEN DECOMPRESSION

NMR94EOD

Work coding of this data file was based on NMRI Report 97-03²⁷ and since these were dry chamber dives, no temperature codes were assigned. Intermittent, 100 watts cycle ergometer work was performed with a 50% duty cycle — generally 10 minutes work / 10 minutes rest but 20 minutes work / 20 minutes rest for longer bottom times. Equation 1 gives a $\dot{V}_{O_2}$ of 1.5 L/min for a 100 watts dry work rate and using Equation 4 with a 50% duty cycle gives 1 L/min average $\dot{V}_{O_2}$ for the intermittent work. An upright posture on the ergometers was assumed for work codes. Work was assumed to be on the bottom only based on "Subjects exercised..., once arriving at bottom.... Subjects stopped exercising and rested during their decompression." The work code was 1|1|0|1 (1 L/min $\dot{V}_{O_2}$ |cycle ergometer|dry|upright).

DC8AOD

These dives were dry chamber dives with light or no exercise, conducted in conjunction with the dives described in the DC8AOW section (immediately below), and no work or temperature codes were assigned.

DC8AOW

Most dives in this data file are reported in DCIEM reports 84-R-72¹⁶ (dive profiles 1, 12–26), 84-R-19²⁸ (dive profiles 3–11), 85-R-18¹⁷ (dive profiles 28,29), and 84-R-73²⁹ (dive profile 31). Work and temperature coding were based on these original reports and additional information in joint report NSMRL 1182/NMRI 92-85.²

The same work was performed during the dives reported in DCIEM reports 84-R-73, 84-R-72, and 85-R-18 and the work is described in detail in the section describing the latter two reports for the DC4W data file on page 11. For each dive, one diver performed upright cycle ergometer work and one diver performed a static swim and it was not possible to identify the type of exercise with individual dive profiles. Work was controlled to between 50% and 75% of maximum heart rate at the surface, depending on bottom time. The work code was xx|0|1|0 (xx L/min $\dot{V}_{O_2}$ |unknown type|wet|unknown posture). Water temperatures ranged from

6.8 °C to 11.2 °C in 84-R-72 and temperature code 2|3|9||P (Celsius|drysuit|9 °C||Persist) was assigned. Water temperature was 10°C in 85-R-18 and 84-R-73 and temperature code 2|3|10||P (Celsius|drysuit|10 °C||Persist) assigned. DC8AOW dive profile 31 is from 84-R-73 Series I, and describes an incident of DCS after the first dive of planned repetitive dive series. Swimming exercise was indicated in the accompanying narrative of the DCS incident and this dive profile was assigned the work code was 1.1|3|1|2 (1.1 L/min $\dot{V}_{O_2}$ |swimming|wet|prone) and temperature code 2|3|10||P (Celsius|drysuit|10 °C||Persist).

DCIEM Report 84-R-19 describes all divers performing immersed, intermittent, cycle ergometer work to a target percentage of maximum heart rate. These dives were conducted by five divers with a mean age of 31 years, mean weight of 73 kg, and mean height of 1.71 meters. Assuming a $\dot{V}_{O_2}$ max of 3.1 L/min based on the divers mean age (Åstrand et al. [2003],⁶ Figure 8.13, p. 261), working $\dot{V}_{O_2}$ was estimated using Figure 9.10 (p. 289) of Åstrand et al. (2003)⁶, which relates %HRmax to % $\dot{V}_{O_2}$ max. Working $\dot{V}_{O_2}$ and average $\dot{V}_{O_2}$ were estimated for various reported percentages of maximum heart rate and work/rest duty cycles as follows:

Bottom Time (min)	% HRmax	Work/rest (min)	% $\dot{V}_{O_2}$ max	$\dot{V}_{O_2}$ work	$\dot{V}_{O_2}$ average
40 - 60	65%	10 / 5	48%	1.5	1.2
30	80%	6 / 4	75%	2.3	1.6

Work code was xx|0|1|0 (xx L/min $\dot{V}_O$ |cycle ergometer|wet|upright)

Water temperatures for individual dives are given in Table of 3 of DCIEM Report 84-R-19 but it was not possible to identify the corresponding dives in DC8AOW dive profiles. Water temperatures ranged from 11.2 °C to 15.6 °C and the mean of 13.5 °C was assigned to all the relevant dive profiles. The temperature code assigned was 2|3|13.5||P (Celsius|drysuit|13.5 °C||Persist).

DC8AOW dive profile 3 could not be identified in any DCIEM report but describes a decompression schedule used in Report 84-R-19 (although following a shorter bottom time) and the header line contains a number (DR0171A) that is in sequence with other dive profiles identified as describing dives from this report. Dive profile 3 was coded in the same manner as dives from DCIEM Report 84-R-19. Dive profiles 29 and 30 also could not be identified in any DCIEM report but have sequential numbering in their header lines that identify them as having been conducted between dives reported in 84-R-72 and 85-R-18. Dive profiles 29 and 30 were coded in same way as dives from these reports. Dive profile 1 was not identifiable in any way, and was arbitrarily coded as if from Report 84-R-72.

SATURATION

No work or temperature codes were added to the dive profiles in the in the data files describing air saturation dives: ASATARE, ASATNSM, ASATEDU, ASATNMR. As

described in NMRC 99-02³, these were dry, resting chamber dives. Although some dive profiles include wet, working excursions from saturation pressure, these excursions are not a significant portion to the total bottom time.

SUBSATURATION

NSM6HR

Work coding was based on NSMRL Report 1200,³⁰ and since these were dry chamber dives, no temperature codes were assigned. Intermittent, 100 watts cycle ergometer work was performed with a 30 minutes work / 30 minutes rest duty cycle for 4 hours. The posture was presumably upright. Equation 1 gives an estimated 1.5 L/min $\dot{V}_{O_2}$ for the work period. Additional nodes were added to the dive profile to allow coding of these periods of work and rest. However, the report does not indicate when during the six hour bottom time the four-hour work period occurred and it was arbitrarily started on reaching bottom. This timing is probably not critical for a subsaturation dive. The work code 1.5|1|0|1 (1.5 L/min $\dot{V}_{O_2}$ |cycle ergometer|dry|upright) was assigned to the new dive segments representing the four work periods.

SURFACE DECOMPRESSION (AIR)

EDU545SUR

These dives are part of a study that tested surface decompression schedules following either work or rest during the bottom time, both in dry chamber runs and with divers immersed in the chamber wet pot, and is reported in NEDU TR 5-45.¹⁸ The original NEDU diving logs (1944, numbers 31 and 32) were searched to identify working and resting dives, dry and wet dives, and water temperatures in the EDU545SUR data file. This search was done at the same time for the EDU545 data file (see page 12), which comprises standard (in-water) decompression dives that were part of this same dive series. This search revealed inconsistencies between NEDU diving logs 31 and 32 and the existing EDU545 and EDU545SUR data files as reported in NMRC 99-02,³ which were corrected in the work-augmented data files. NEDU diving logs 31 and 32 contain dive data sheets, each representing a single man-dive. These individual data sheets are annotated with two numbering systems, one written in red pencil and one in blue pencil. The blue numbers were used to identify NEDU diving log dives in the present report.

Dry dives

The dry dives, all to 100 fsw, were extracted from the EDU545SUR data file, coded for work in a file named EDU545SURDE.dat. Work was assumed to be only while on bottom, based on the following statement in NEDU TR 5-45:¹⁸ “Weight lifting was performed while on bottom instead of bicycle riding as was done in the dry chamber dives.” Work was stationary cycle ergometer at “25 mph” while on the bottom.¹⁸ A calculator designed to estimate power output for cyclists³¹ was used to estimate diver

work rate assuming a mean diver weight of 167 lbs, diver height of 69 inches, a 25 mph tailwind, and zero bicycle weight. The last two assumptions were to account for application of the power calculator to stationary ergometry. Power estimates range from 51 to 68 watts (depending on selected bicycle configuration) for a zero bicycle weight and 58 to 80 watts for the calculators default bicycle weights. This is equivalent to $\dot{V}_{O_2}$ ranging from 0.8 to 1.2 L/min (see Equation 1). A value of 65 watts was elected, giving 1.0 L/min $\dot{V}_{O_2}$. For a 3-minute work / 2-minute rest duty cycle this is an oxygen consumption of 0.8 L/min. The work code was 0.8|1|0|1 (0.8 L/min $\dot{V}_{O_2}$ |cycle ergometer|dry |upright).

Wet dives

The wet dives were coded for work and water temperature and the file named EDU545SURWET.dat. Weightlifting work was performed on the bottom, details of which are given in the section on data set EDU545 on page 12. Work code for wet dives was 1.5|2|1|1 (1.5 L/min $\dot{V}_{O_2}$ |weight lifting|wet|upright). The temperature codes were 1|3|xx||P (Fahrenheit|dry suit|xx °F||persist). If no temperature was given for a particular wet dive it was noted ("NO TEMP") in the dive profile header line.

Changes to EDU545SUR

The following tables summarize changes to EDU545SUR resulting from splitting into data files EDU545SURDE and EDU545SURWET, distinguishing between working and resting dives, incorporating water temperature, and correcting inconsistencies between the original EDU545SUR data file and the original NEDU diving logs. Where individual dive profiles had to be duplicated to accommodate work/rest (w/r), temperature (T) differences, or other changes, the duplicate dive profiles retained the original number from data file EDU545sur but appended with a letters a-z as necessary. For NEDU diving log dives that could not be identified with existing dive profiles in data file EDU545sur, new dive profiles were added with numbering starting at 85. For the most part these were not new dives, but different assignments.

EDU545SURDE

EDU545SURDE profile #	Action	Reason
1–12,24,26	unchanged	
25	Split a,b	w/r
27	Split a,b	w/r
28	Split a,b,....	w/r, T (both wet and dry dives)
29	Split a,b	w/r, add 1 dive
30	Deleted	No such dive
31	Split a,b	w/r, subtract 1 dive
32	Split a,b	w/r
33	Split a,b	w/r, subtract 2 dives

86	Re-assigned ^{IV}	NEDU diving log dive 42
----	---------------------------	-------------------------

W, R, and T indicate split of dive profile because of work or rest of different water temperature

EDU545SURWET

EDU545SURWET profile #	Action	Reason
13–22, 40, 44, 48, 50–53, 68, 72	unchanged	
23	Not DCS	Misassigned ^I
28	Split c-i	w/r, T, add 1 dive (wet, no temp)
34	Deleted	No such dive (with 2 min 30fsw IW stop)
35	Deleted	No such dives (3)
36	Split a,b	w/r
37	Split a,b	w/r
38	Split a,b	w/r, subtract 1 dive
39	Split a,b	w/r
41	Split a,b	w/r
42	Deleted	No such dive
43	Deleted	No such dive
45	Split a,b	w/r
46	Subtract 2 dives	subtract 2 dives
47	Split a,b	T (all resting)
49	Split a,b	w/r, T
54-58	Corrected IW stop	Incorrect IW stop depth ^{II}
59	Corrected IW stop	No temperature data, Incorrect IW stop depth
60-66	Corrected IW stop	Incorrect IW stop depth
67	Split a,b	T, subtract 2 dives
69	Deleted	No such dive
70	Split a,b	subtract 2 dives and 2 with no temperature data
71	Add dive	No temperature data
73	Split a,b,c,d,e,f,g, Corrected IW stop	w/r, T, subtract 1 dive Incorrect IW stop depth ^{III}
74	Split a,b, Corrected IW stop	T, Incorrect IW stop depth ^{III}
75	Corrected IW stop	Incorrect IW stop depth ^{III}
76	Split a,b,c,d,e,f	w/r, T, subtract 1 dive ^{III}
77	Corrected IW stop	Incorrect IW stop depth
78	Split a,b	w/r, T
79	Split a,b,c,d,e,f	w/r, T
80	Assumed temperature	Apparent pair, one without temp
81	Deleted	No such dives (2)
82	Split a,b	w/r, T
83-84	Corrected IW stop	Incorrect IW stop depth

85	Reassigned ^{IV}	NEDU diving log dive 64
87	Reassigned ^{IV}	NEDU diving log dives 85, 86
88	Reassigned ^{IV}	NEDU diving log dive 50
89	Reassigned ^{IV}	NEDU diving log dive 49
90	Reassigned ^{IV}	NEDU diving log dive 75
91	Reassigned ^{IV}	NEDU diving log dive 53
92	Reassigned ^{IV}	NEDU diving log dive 54
93	Reassigned ^{IV}	NEDU diving log dive 145
94	Reassigned ^{IV}	NEDU diving log dive 135,136
95	Reassigned ^{IV}	NEDU diving log dive 188,189
96	New	NEDU diving log dive 202 ^V
97	New	NEDU diving log dive 203 ^{VI}
98	New	NEDU diving log dive 192c ^{VII}
99	New	NEDU diving log dive 193c ^{VIII}
100	New	NEDU diving log dive 195c ^{IX}
101	New	NEDU diving log dive 196c ^X

w, r, and T indicate split of dive profile because of work or rest of different water temperature

- i. NEDU diving logs 31 and 32 are hardbound volumes consisting mainly of lined workbooks with glued in log pages. The log page is a standard form, approximately A4 or letter size (same as the workbook), with penciled-in specifics for one man-dive. A single log page is glued to the right hand side of the work book page with penciled comments pertaining to that log page/man-dive, including bends narrative, written on the facing (left hand side) page. However, the final pages of NEDU Diving Log 31 are bound log pages, not glued into a workbook, and for these log pages, the comments, including bends narratives, are written on the back of the log page. EDU545sur data file dive profile 23 is derived from NEDU diving log 31 dive #138, which is the last log page glued into the work book, and for which there are no additional comments or bends narrative. The apparent facing page is the back of first loose log page bound in this volume, NEDU Diving Log 31 dive #279. The bend narrative on the back of this loose log page is for dive #279 which is a standard decompression dive and the corresponding dive profile is in EDU545 data file (one of 13 divers in dive profile 18 in that data file).
- ii. All 150 fsw and 170 fsw dives (dive profiles 54–66, 73–84) have the in-water (IW) stop incorrectly assigned to 30 fsw instead of 20 fsw. The surface air decompression procedures being tested in NEDU TR 5-45 is that from the 1943 Diving Manual and are to conduct the first stop required from the Navy Standard Decompression Table in-water and then repeat this as the first stop in the chamber. The first required stop for the 150 and 170 fsw dives is 20 fsw. In the logs the in-water stop was specified only as “first stop” and the R and L times given, so these times remain correct in the dive profile. The actual depth of the stops is not explicitly mentioned either in the logs or in NEDU TR 5-45, but it is given (as 20 fsw for the 150 and 170 fsw dives) in the companion NEDU TR 2-45.32
- iii. As in note 2, the in-water stop was corrected from 30 to 20 fsw. It is tempting to correct the in-water stop on these dives (one diver each from dive profiles 74–76) to 16 fsw instead of 20 fsw, but this was not done. These dives can be paired to dives that had a 16 fsw instead of 20 fsw stop (NEDU Diving Log 32 cancelled dives 192c, 193c, and 196c, respectively; see notes below). Most dives from the logs can be paired based on identical date, log clock times, and temperature. This may mean there were two divers in the wet pot at a time. From the procedure section of NEDU TR 5-45 it is reasonably clear that two divers at a time were dived in the dry dives, but it is not clear if this is the case for the wet dives: “...make dry chamber runs first, having one subject work and one rest.... The subjects were then brought to the surface....Comparable dives were then made in the wet tank following the same decompression procedure.” There is usually a second pair of man-dives with the same date but with logged clock times and temperatures differing from the other pair, suggesting there was at least a second wet pot in use. The later NEDU TR 5-5733 states there were “4 combination recompression chamber-wet pressure tanks in building 214, NCF, Washington, D.C. Building 214 houses the U.S. Naval School, Deep Sea Divers and the U.S. Navy Experimental Diving Unit.” However, in the absence of explicit evidence otherwise, the 20 fsw in-water stop is retained.

An alternative option would be to delete these three dive profiles with this uncertainty, but this was not done. The matching dives are (EDU545sur data file dive profile/NEDU diving log 32 dive #[date]/NEDU diving log 32 cancelled dive): 74/194[19450221]/193c; 75/191[19450221]/192c; 76/197[19450222]/196c.

- iv. Reassigned dive profiles (EDU545SURWET dive profiles 85-95) are 14 dives from NEDU Diving Logs 31 and 32 that could not be matched to existing dive profiles in EDU545sur data file. These are reassigned dive profile numbers, as opposed to completely "new" dive profiles (see, for instance, note 5) because they do not increase the total number of dives from EDU545SUR. Deletions of and subtractions from EDU545SUR dive profiles amount to 21 dives.
- v. NEDU diving log dive #202 was mistakenly coded as a standard decompression dive as dive profile 30 in the EDU545 data file where it was assigned as marginal DCS. That DCS code and associated T1 and T2 times were retained. No reach surface and leave surface times for SI were given so a typical value of three minutes was used. Narrative: "No serious complaints. Pt felt well after dive except for moderate fatigue. At 1900 he said he suddenly became dizzy and also noticed slight deep pain in Rt groin. He lay down and fell asleep. No complaints this AM. Pt Noticed slight skin itch over left forearm after surfacing from his recompression dive but this disappeared within 15 minutes with no further recurrence or development of any rash."
- vi. NEDU diving log dive #203 was mistakenly coded as a standard decompression dive as dive profile 31 in the EDU545 data file where it was assigned as marginal DCS. Retained that code and T1 and T2 times. No reach surface and leave surface times for SI, used 1 and 3 minutes (typical). Narrative: "No complaints. Experienced quite a bit of fatigue post dive. No skin or joint complaints."
- vii. This was a dive in NEDU diving log 32 dated 19450221, labeled "Cancelled" and hidden by having another, later, dive log data sheet (NEDU diving log dive #192 dated 19450312) affixed, by the top edge only, over the top. The later dive log could be lifted to reveal the cancelled dive log sheet beneath. The cancelled dive was designated as NEDU Diving Log 32 dive #192c. On the facing notebook page the medical narrative related to 192c is visible but also labeled "Cancelled". Below this narrative is the following narrative for the newer dive (NEDU diving log): "No complaints on this run which was identical with the above except that air pressure above the 7 feet of water in the tank was left @ 17' instead of 13'. 17' gives approximately 20' helmet pressure whereas 13' will give only about 16' helmet pressure for the 20' stop." The narrative continues to describe marginal manifestations for dive #192 (EDU545sur data file dive profile 54). Our interpretation is that the investigator decided to remove 192c from analysis for NEDU TR 5-45 and do a makeup dive (192) with the correct schedule since the schedule with the erroneous shallow stop resulted in DCS. Coding: no leave surface times for SI, used 4 minutes based on 1 minute descent in chamber (typical); assigned the outcome as DCS [1.0], T1 time = 256, T2 time = 316; T2 based on narrative; T1 2hr after surfacing according to standard rules¹⁹ Narrative for 192c: "Bends. Completed dive without symptoms. About 3 hours after his dive he noticed pain in his right elbow in region of biceps tendon insertion. Remained for about half hour without relief and he was recompressed at 1455. Obtained relief at 50 ft. Taken to 100 ft and brought out on O2 Rx table as follows: Left surface 14:55 R 100' 1501 30 min; 80 feet 12 min; 60 feet 30 min O2; 50 feet 30 min O2; 40 feet 30 min O2; surface 5 min O2 1724."
- viii. Another cancelled dive is referred to here as NEDU diving log dive 193c, hidden and cancelled as described above and with similar notation regarding air pressure above wet tank being 13 feet instead of 17 feet. Coding: no leave surface times for SI, used 4 minutes based on the typical 1-minute descent in chamber; assigned the outcome as DCS [1.0], T1 time = 75, T2 time = 135; T2 based on narrative; T1 time leaving second previous stop according to standard rules¹⁹ (assumed surface was a stop). 193c narrative: "Bends. See rerun below. Made uneventful dive up to the time he just left the 10 foot stop in dry chamber (about 1100) he noticed pain in his left elbow. On surfacing the pain traveled up his arm and ended at the left shoulder at insertion of deltoid, disappearing from his elbow. He was recompressed and obtained relief @ 10 feet and complete relief @ 15 feet. Taken to 100 feet and brought out on 100 O2 Rx table as follows: Left surface 1109 Arrived 100' 1115 30 min; 80 feet 12 min; 60 feet 30 min O2; 50 feet 30 min O2; 40 feet 30 min O2; surface 5 min O2 1336. No further complaints"
- ix. Another cancelled dive is referred to here as NEDU diving log dive 195c, hidden and cancelled as described above and with similar notation regarding air pressure above wet tank being 13 feet instead of 17 feet. Coding: no leave surface times for SI, used 3 minutes based on 1-minute descent in

chamber (typical); assigned the outcome as DCS [1.0], T1 = 146, T2 time = 170; T2 based on narrative; T1 time surfacing plus 10 minutes according to standard rules.¹⁹ 195c narrative: "Bends. See rerun of this dive. Made uneventful dive. Surfaced at 1056. At approximately 1130 he developed a dull aching pain in left axillary region located near the insertion of the pectoralis major & minor muscles. Pain was persistent and increased slightly in intensity until 1330 at which time he reported to M.O. Was recompressed at this time, approx. 2 hours & 10 min after surfacing. Partial relief was obtained at 60 feet and complete relief at 78 feet. Pressure was increased to 100 feet – and held for 30 min decompression as follows: 100 – 30 min; 80 – 12 min; 60 – 30 O₂; 50 – 30 O₂; 40 – 30 O₂; surface – 5 O₂. Upon completion of Rx - subject felt fine until about 2000 – when he noticed a dull pain localized in the rt hand – distal portion of the 1st 2nd and 3rd metacarpals. Also wrist pain was present, located on the dorsum – over the Extensor Radialis [illegible] Tendon. By 2230 pain had become more severe and Rx was carried out. Wrist pain was better at 66 feet however metacarpal pain was still present. Pressure was increased to 100 feet – no more relief was obtained – pressure was then increased to 165 feet – very little relief was noticed. Remained at depth for 30 min and surfaced on table III. 165 feet – 30; 140 feet – 12; 120 feet – 12; 100 feet – 12; 80 – 12; 60 – 30; 50 – 30; 40 – 30; 30 – 12 hrs; 20 – 2 hrs; 10 – 2 hrs. A slight amount of pain had remained in metacarpals throughout Rx. Still present after Rx. Had various aches & pains similar to flu over week end. Hand pain subsided after 24 hrs."

- x. Another cancelled dive is referred to here as NEDU diving log dive 196c, hidden and cancelled as described above and with similar notation regarding air pressure above wet tank being 13 feet instead of 17 feet. Coding: no leave surface times for SI, used 3 minutes based on 1 minute descent in chamber (typical); assigned the outcome as marginal [0.5], T1 = 146, T2 time = 196; T2 based on narrative; T1 time surfacing plus 10 minutes according to standard rules.¹⁹ 196c narrative: "About 1 hour after surfacing, this subject noticed slight pain in left forearm at its mid portion over radius. Patient noticed that adduction of the wrist increased this pain. Pain was slight, lasted about ½ hour and disappeared. No further symptoms until about 1645 (about 6 hours after surfacing) when this same pain occurred at same site of about equal intensity but 'felt deeper'. This was also mild, became hardly noticeable at 1830 [diver surfaced at 10:48] and completely disappeared at 1930 with no further recurrences or any other symptoms."

The following table summarizes the number of man-dives described in NEDU TR 5-45, recorded in NEDU diving logs, coded in the original EDU545, and coded in the work- and temperature-augmented data files.

fsw	TR 5-45	NEDU logs	Original	Revised	Notes
100	84	84	82	82	2 dives in NEDU diving logs (87 & 8) have no decompression schedule recorded and are omitted from original and revised data files
100 dry	43	43	43		Subset of above
130	44	44	44	42	2 dives in NEDU diving logs (154 & 155) have no decompression schedule recorded and are omitted from the revised data files
150	40	44	38	44	44 dives in NEDU diving logs include the 4 "cancelled" dives with 16 fsw in-water stops. 2 other dives from the NEDU

					diving logs are missing from original file, mistakenly in the EDU545 data file
170	33	33	33	33	

Original refers to EDU545sur.dat, electronic version described in part in NMRC 99-02.³

Revised refers to EDU545SURDE.dat and EDU545SURWET.dat.

SURFACE DECOMPRESSION (OXYGEN)

DC8ASUR(W)

Most dives in data file DC8ASUR are reported in DCIEM reports 84-R-19²⁸ (DC8ASUR dive profiles 5,7–15,17–19) 84-R-72¹⁶ (DC8ASUR dive profiles 21–37), 84-R-73²⁹ (DC8ASUR dive profile 38–58), and 85-R-18¹⁷ (dive profiles 59–69,71–72). Data file DC8ASUR describes 260 dry and wet dives (72 dive profiles) and data file DC8ASURW is a subset of DC8ASUR, describing only the 98 wet dives (63 dive profiles).² It is noteworthy that NMRC Report 99-02³ incorrectly describes data file DC8ASUR as containing only dry dives. A new data file called DCSUREPD was constructed that included only the dry dives. No work was performed during the dry dives so this data file has no work or water temperature codes. DC8ASURW was coded for work and water temperature based on information in the DCIEM reports and additional information in NSMRL 1182/NMRI 92-85.²

The same work was performed during the dives reported in DCIEM Reports 84-R-73, 84-R-72, and 85-R-18 and the work is described in detail in the section describing the latter two reports for the DC4W data file on page 11. For each dive, one diver performed upright, cycle ergometer work and one diver performed a static swim and it was not possible to identify the type of exercise within individual dive profiles. Work was controlled to between 50% and 75% of maximum heart rate at the surface, depending on bottom time. The work code xx|0|1|0

(xx L/min $\dot{V}_{O_2}$ |unknown type|wet|unknown posture) was assigned. Water temperatures ranged from 6.8 °C to 11.2 °C in 84-R-72 and temperature code 2|3|9||P (Celsius|drysuit|9 °C||Persist) was assigned. Water temperature was 10°C in 85-R-18 and 84-R-73 and temperature code 2|3|10||P (Celsius|drysuit|10 °C||Persist) was assigned.

DCIEM Report 84-R-19 describes all divers performing immersed, intermittent, cycle ergometer work to a target percentage of maximum heart rate. These dives were conducted by six divers with a mean age of 32 years, mean weight of 73 kg, and mean height of 1.73 meters. Assuming a $\dot{V}_{O_2}$ max of 3.1 L/min based on the divers mean age (Åstrand et al. [2003], Figure 8.13, p. 261)⁶, working $\dot{V}_{O_2}$ was estimated using Figure 9.10 (p. 289) of Åstrand et al. (2003),⁶ which relates %HRmax to % $\dot{V}_{O_2}$ max. Working $\dot{V}_{O_2}$ and average $\dot{V}_{O_2}$ were estimated for various reported percentages of maximum heart rate and work/rest duty cycles as follows:

Bottom Time (min)	% HRmax	Work/rest (min)	% $\dot{V}O_2$ max	$\dot{V}O_2$ work	$\dot{V}O_2$ average
40–60	65%	10 / 5	48%	1.5	1.2
30	80%	6 / 4	75%	2.3	1.6

Work code was xx|0|1|0 (xx L/min $\dot{V}O_2$ |cycle ergometer|wet|upright)

Water temperatures are given in Table of 3 of DCIEM Report 84-R-19 and range from 12 °C to 20 °C and the mean value of 14.9 °C was assigned to all the relevant dive profiles. The temperature code assigned was 2|3|14.9||P (Celsius|drysuit|14.9 °C||Persist).

DC8ASUR dive profiles 68 and 71 (DC8ASURW dive profiles 60 and 63) describe 88 fsw / 60 min dives identified with, and coded consistent with Report 85-R-18, but they contain one additional dive than reported. DC8ASUR dive profile 29 (DC8ASURW dive profile 28) is an 88 fsw / 60 min dive that appears to follow a U.S. Navy Treatment Table 5 instead of normal surDO₂; the decompression schedule otherwise appears to one described in report 84-R-72, so work and temperature codes consistent with that report were assigned. Several DC8ASUR dive profiles were not described in any of the DCIEM reports but were all coded as if from DCIEM Report 84-R-19 for the following reasons. DC8ASUR dive profiles 1–5 have numbering in the header lines that immediately preceding other 84-R-19 dives; dive profile 6 appears to be an aborted 84-R-19 dive; dive profile 16 is 98 fsw / 60 minutes on the same decompression schedule as a 84-R-19 dive for a 90 fsw / 60 minutes schedule; dive profile 20 is similar to a 84-R-19 schedule but has a longer chamber period.

DCSUREP(W)

Most dives in this data set are reported in DCIEM Reports 84-R-72¹⁶ (DCSUREP dive profiles 1–2), 84-R-73²⁹ (DCSUREP dive profile 3–7), and 85-R-18¹⁷ (DCSUREP dive profiles 8–10). The numbers of dives match between data set dive profiles and the reports except for two dives in dive profiles 8–10 additional to those reported for the matching schedule in DCIEM Report 85-R-18. Data file DCSUREP describes 52 dry and wet dives and data file DCSUREPW is a subset of DCSUREP, describing only the 17 wet dives.² It is noteworthy that NMRC report 99-02³ incorrectly describes data file DCSUREP as containing only dry dives. A new data file called DCSUREPD was constructed that included only the dry dives. No work was performed during dry dives so this data file has no work or water temperature codes. DCSUREPW was coded for work and water temperature based on information in the DCIEM reports and additional information in NSMRL 1182/NMRI 92-85.²

The same work was performed during the dives reported in DCIEM Reports 84-R-73, 84-R-72, and 85-R-18 and the work is described in detail in the section describing the latter two reports for the DC4W data file on page 11. For each dive, one diver performed upright cycle ergometer work and one diver performed a static swim and it was not possible to identify the type of exercise with individual dive profiles. Work was controlled to between 50% and 75% of maximum heart rate at the surface, depending

on bottom time. The work code xx|0|1|0 (xx L/min $\dot{V}_{O_2}$ |unknown type|wet|unknown posture) was assigned. Water temperatures ranged from 6.8 °C to 11.2 °C in 84-R-72 and temperature code 2|3|9||P (Celsius|drysuit|9 °C||Persist) was assigned. Water temperature was 10°C in 85-R-18 and 84-R-73 and temperature code 2|3|10||P (Celsius|drysuit|10 °C||Persist) was assigned.

REFERENCES

1. E. C. Parker, S. S. Survanshi, P. B. Massell, and P. K. Weathersby, "Probabilistic Models of the Role of Oxygen in Human Decompression Sickness," *Journal of Applied Physiology* Vol. 84, No. 3 (1998), pp. 1096–1102.
2. P. K. Weathersby, S. S. Survanshi, R. Y. Nishi, and E. D. Thalmann, *Statistically Based Decompression Tables – VII: Selection and Treatment of Primary Air and N2O2 Data*, Joint Technical Report NSMRL 1182 and NMRI 92-85, Naval Submarine Medical Research Laboratory and Naval Medical Research Institute, Sep 1992.
3. D. J. Temple, R. Ball, P. K. Weathersby, E. C. Parker, and S. S. Survanshi, *The Dive Profiles and Manifestations of Decompression Sickness Cases After Air and Nitrogen-Oxygen Dives*, Technical Report 99-02, Naval Medical Research Center, 1999.
4. W. A. Gerth, "Probabilistic Models of DCS during Flying after Diving: Motivation for Mechanism," in P. K. Weathersby and W. A. Gerth, eds., *Survival Analysis and Maximum Likelihood Techniques as Applied to Physiological Modeling, Proceedings of the 51st Undersea and Hyperbaric Medical Society Workshop* (Kensington, MD: Undersea and Hyperbaric Medical Society, 2002), pp. 118–136.
5. B. E. Shykoff, *Underwater Cycle Ergometry: Power Requirements With and Without Diver Thermal Dress*, NEDU TR 09-01, Navy Experimental Diving unit, Jan 2009.
6. P.-O. Åstrand, K. Rodahl, H. A. Dahl, and S. B. Strømme, *Textbook of Work Physiology*, 4th ed. (Champaign, IL: Human Kinetics, 2003).
7. M. Almeling, L. Schega, F. Witten, P. Lirk, and K. Wulf, "Validity of Cycle Test in Air Compared to Underwater Cycling," *Undersea and Hyperbaric Medicine*, Vol. 33, No. 1 (2006), pp. 45–53.
8. M. E. Knafelc, *Diver Oxygen Consumption Rate for Different Diving Dress*, NEDU TM 07-04, Navy Experimental Diving Unit, Mar 2007.
9. B. E. Shykoff, *Oxygen Consumption as a Function of Ergometer Setting in Different Diver's Dress: Regression Equations*, NEDU TM 09-06, Navy Experimental Diving Unit, Aug 2009.

10. C. G. Gray and E. D. Thalmann, *Manned Evaluation of the Pre-Production MK 16 Underwater Breathing Apparatus*, NEDU TR 13-80, Navy Experimental Diving Unit, Aug 1980.
11. E. D. Thalmann, *Air-N₂O₂ Decompression Computer Algorithm Development*, NEDU TR 8-85, Navy Experimental Diving Unit, Aug 1986.
12. J. L. Zumrick, *Manned Evaluation of the Swimmer Life Support System Mark 1*, NEDU TR 11-78, Navy Experimental Diving Unit, Feb 2007.
13. R. Y. Nishi, K. E. Kisman, I. P. Buckingham, B. C. Eatock, and G. Masurel, *XDC Digital Decompression Computer: Assessment of Decompression Profiles by Ultrasonic Monitoring, Phase II: 36–54 msw*, Report 80-R-32, Defence and Civil Institute of Environmental Medicine, 1980.
14. R. Y. Nishi, B. C. Eatock, I. P. Buckingham, and G. Masurel, *XDC Digital Decompression Computer: Assessment of Decompression Profiles by Ultrasonic Monitoring, Phase II: 30–75 wsw*, Report 81-R-02, Defence and Civil Institute of Environmental Medicine, 1981.
15. R. Y. Nishi, B. C. Eatock, I. P. Buckingham, and B. A. Ridgewell, *Assessment of Decompression Profiles by Ultrasonic Monitoring, Phase III: No-Decompression Dives*, Report 82-R-38, Defence and Civil Institute of Environmental Medicine, 1982.
16. G. R. Lauckner, R. Y. Nishi, and B. C. Eatock, *Evaluation of the DCIEM 1983 Decompression Model for Compressed Air Diving (Series A–F)*, Report 84-R-72, Defence and Civil Institute of Environmental Medicine, 1984.
17. G. R. Lauckner, R. Y. Nishi, and B. C. Eatock, *Evaluation of the DCIEM 1983 Decompression Model for Compressed Air Diving (Series L–Q)*, Report 85-R-18, Defence and Civil Institute of Environmental Medicine, 1985.
18. O. E. Van der Aue, E. S. Brinton, and R. J. Kellar, *Surface Decompression: Derivation and Testing of Decompression Tables with Safety Limits for Certain Depths and Exposures*, NEDU TR 5-45, Navy Experimental Diving Unit, 1945.
19. P. K. Weathersby, S. S. Survanshi, R. Y. Nishi, and E. D. Thalmann, *Statistically Based Decompression Tables – VII: Selection and Treatment of Primary Air and N₂O₂ Data*, Technical Report 92-85, Naval Medical Research Institute, 1985.
20. E. D. Thalmann, S. S. Survanshi, and E. T. Flynn, "Direct Comparison of the Effects of He, N₂, and Wet or Dry Conditions on the 60 fsw No-Decompression Limit" [abstract], *Undersea Biomed Res*, Vol. 16 (1989), p. 67.
21. E. D. Thalmann, *Improved Decompression Procedures for Free-Swimming Divers II*, Human Research Protocol 88-06, Naval Medical Research Institute, Bethesda, MD, Apr 1988.

22. E. D. Thalmann, *Improved Decompression Procedures for Free-Swimming Divers II (Revised)*, Human Research Protocol 88-06A, Naval Medical Research Institute, Bethesda, MD, Sep 1988.
23. E. D. Thalmann, P. C. Kelleher, S. S. Survanshi, E. C. Parker, and P. K. Weathersby, *Statistically Based Decompression Tables XI: Manned Validation of the LE Probabilistic Decompression Model for Air and Nitrogen-Oxygen Diving*, Joint Technical Report NEDU 1-99 and NMRC 99-01, Navy Experimental Diving Unit and Naval Medical Research Center, Feb 1999.
24. E. D. Thalmann, *Testing of Decompression Algorithms for Use in the U.S. Navy Underwater Decompression Computer. Phase I*, NEDU TR 11-80, Navy Experimental Diving Unit, Aug 1980.
25. P. K. Weathersby, B. L. Hart, E. T. Flynn, and W. F. Walker, *Human Decompression Trial in Nitrogen-Oxygen Diving*, Technical Report 86-97, Naval Medical Research Institute, 1986.
26. E. D. Thalmann, *Phase II Testing of Decompression Algorithms for Use in the U.S. Navy Underwater Decompression Computer*, NEDU TR 1-84, Navy Experimental Diving Unit, Jan 1984.
27. S. S. Survanshi, E. D. Thalmann, E. C. Parker, D. D. Gummin, A. P. Isakov, and L. D. Homer, *Dry Decompression Procedure Using Oxygen for Naval Special Warfare*, Technical Report 97-03, Naval Medical Research Institute, 1997.
28. R. Y. Nishi, G. R. Lauckner, B. C. Eatock, and J. T. Hewitt, *Oxygen Decompression Techniques for Compressed Air Diving Using the XDC-2 Decompression Computer Programmed with the Kidd-Stubbs 1971 Model*, Report 84-R-19, Defence and Civil Institute of Environmental Medicine, 1984.
29. G. R. Lauckner, R. Y. Nishi, and B. C. Eatock, *Evaluation of the DCIEM 1983 Decompression Model for Compressed Air Diving (Series G-K)*, Report 84-R-73, Defence and Civil Institute of Environmental Medicine, 1984.
30. C. L. Shake, P. K. Weathersby, D. D. Wray, and E. C. Parker, *Decompression Sickness Resulting from Long Shallow Air Dives*, Technical Report 1200, Naval Submarine Medical Research Laboratory, 1996.
31. Speed & power [Internet]. [place unknown]: W. Zorm, [31 Jan 2002; Modified 6 Apr 2005 Apr 06; cited 2006 Dec20]. Available from: <http://www.kruezotter.de/english/espeed.thm>
32. O. E. Van der Aue, E. S. Brinton, and R. J. Kellar, *Variations of the Pulse Rate and Arterial Blood Pressure Under Increased Barometric Pressure and Their Prognostic Value in the Occurrence of Compressed Air Illness*, NEDU TR 2-45, Navy Experimental Diving Unit, Sep 1945.

33. M. des Granges, *Standard Air Decompression Table*, NEDU TR 5-57, Navy Experimental Diving Unit, Dec 1956.

APPENDIX A DATA FILE SUMMARIES

SINGLE AIR

EDU885A

A-1

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	100	63.5	97	10	0	NA	NA	1.2	1	1	2	55	1	2	AN1001.OUT 1 REPETS= 2
2	100	61.5	96.7	10	0	NA	NA	1.2	1	1	2	55	1	2	AN1002.OUT 11 REPETS= 1
3	150	59.6	260.5	1	1	319.9	325.1	1.2	1	1	2	65	1	2	AN1003.OUT 21 REPETS= 1
4	150	59.6	260.5	1	1	350.1	440.1	1.2	1	1	2	65	1	2	AN1003.OUT 22 REPETS= 1
5	150	59.6	260.5	8	0	NA	NA	1.2	1	1	2	65	1	2	AN1003.OUT 23 REPETS= 1
6	100	62.5	94.3	10	0	NA	NA	1.2	1	1	2	55	1	2	AN1004.OUT 31 REPETS= 1
7	60	182.6	153.8	1	1	456	756	1.2	1	1	2	65	1	2	AN1005.OUT 41 REPETS= 1
8	60	182.6	153.8	9	0	NA	NA	1.2	1	1	2	65	1	2	AN1005.OUT 42 REPETS= 1
9	60	183.3	153.2	10	0	NA	NA	1.2	1	1	2	65	1	2	AN1006.OUT 51 REPETS= 1
10	100	66.8	59	9	0	NA	NA	1.2	1	1	2	55	1	2	AN1007.OUT 61 REPETS= 1
11	60	94.3	15.9	9	0	NA	NA	1.2	1	1	2	55	1	2	AN1008.OUT 70 REPETS= 1
12	100	63.1	58.5	10	0	NA	NA	1.2	1	1	2	55	1	2	AN1009.OUT 79 REPETS= 1
13	150	64	151.3	1	1	165.5	275	1.2	1	1	2	60	1	2	AN1010.OUT 89 REPETS= 1
14	150	64	151.3	1	1	475	775	1.2	1	1	2	65	1	2	AN1010.OUT 90 REPETS= 2
15	150	64	151.3	1	1	475	1495	1.2	1	1	2	65	1	2	AN1010.OUT 91 REPETS= 2
16	150	64	151.3	7	0	NA	NA	1.2	1	1	2	65	1	2	AN1010.OUT 92 REPETS= 2
17	100	62.6	59.3	10	0	NA	NA	1.2	1	1	2	55	1	2	AN1011.OUT 99 REPETS= 1
18	60	182.2	71.9	1	1	374	554	1.2	1	1	2	65	1	2	AN1012.OUT 109 REPETS= 1
19	60	182.2	71.9	1	1	374	524	1.2	1	1	2	65	1	2	AN1012.OUT 110 REPETS= 1
20	60	182.2	71.9	1	1	182.2	494	1.2	1	1	2	65	1	2	AN1012.OUT 111 REPETS= 1
21	60	182.2	71.9	7	0	NA	NA	1.2	1	1	2	65	1	2	AN1012.OUT 112 REPETS= 1
22	60	182.7	111.1	1	1	203.6	293.6	1.2	1	1	2	65	1	2	AN1013.OUT 119 REPETS= 1
23	60	182.7	111.1	1	1	323.8	444	1.2	1	1	2	65	1	2	AN1013.OUT 120 REPETS= 1
24	60	182.7	111.1	2	1	323.8	474	1.2	1	1	2	65	1	2	AN1013.OUT 121 REPETS= 1
25	60	182.7	111.1	6	0	NA	NA	1.2	1	1	2	65	1	2	AN1013.OUT 123 REPETS= 1
26	100	65.3	39.9	9	0	NA	NA	1.2	1	1	2	55	1	2	AN1014.OUT 129 REPETS= 1
27	120	64	90.3	1	1	64	154.1	1.2	1	1	2	55	1	2	AN1015.OUT 138 REPETS= 1
28	120	64	90.3	9	0	NA	NA	1.2	1	1	2	55	1	2	AN1015.OUT 139 REPETS= 1
29	100	34.3	2.8	10	0	NA	NA	1.2	1	1	2	50	1	2	AN1016.OUT 148 REPETS= 1
30	100	35.1	3.2	10	0	NA	NA	1.2	1	1	2	50	1	2	AN1017.OUT 158 REPETS= 1

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
31	120	63.7	90.2	10	0	NA	NA	1.2	1	1	2	55	1	2	AN1018.OUT 168 REPETS= 1
32	150	16.6	4.2	10	0	NA	NA	1.2	1	1	2	50	1	2	AN1019.OUT 178 REPETS= 1
33	150	18.9	4.1	10	0	NA	NA	1.2	1	1	2	50	1	2	AN1020.OUT 188
34	150	45.3	88.9	1	1	254	434	1.2	1	1	2	55	1	2	AN1021.OUT 198 REPETS= 1
35	150	45.3	88.9	9	0	NA	NA	1.2	1	1	2	55	1	2	AN1021.OUT 199 REPETS= 1
36	150	44.2	88.9	10	0	NA	NA	1.2	1	1	2	55	1	2	AN1022.OUT 208 REPETS= 1
37	60	68	2.3	9	0	NA	NA	1.2	1	1	2	50	1	2	AN1023.OUT 218 REPETS= 1
38	150	50.5	88.7	1	1	259	559	1.2	1	1	2	55	1	2	AN1024.OUT 227
39	150	50.5	88.7	8	0	NA	NA	1.2	1	1	2	55	1	2	AN1024.OUT 228 REPETS= 2
40	60	68.7	2	10	0	NA	NA	1.2	1	1	2	50	1	2	AN1025.OUT 236 REPETS= 1
41	60	68.6	1.7	10	0	NA	NA	1.2	1	1	2	50	1	2	AN1026.OUT 246 REPETS= 1
42	150	45.9	102	9	0	NA	NA	1.2	1	1	2	55	1	2	AN1027.OUT 256
43	150	44.8	100.5	9	0	NA	NA	1.2	1	1	2	55	1	2	AN1028.OUT 265
44	100	93.9	211.7	10	0	NA	NA	1.2	1	1	2	65	1	2	AN1029.OUT 274 REPETS= 1
45	100	93.3	211.5	9	0	NA	NA	1.2	1	1	2	65	1	2	AN1030.OUT 284 REPETS= 1
46	190	13.8	6.3	10	0	NA	NA	1.2	1	1	2	50	1	2	AN1031.OUT 293 REPETS= 1
47	190	43.1	238.4	1	1	311.5	461	1.2	1	1	2	65	1	2	AN1032.OUT 303 REPETS= 1
48	190	43.1	238.4	1	1	401	521	1.2	1	1	2	65	1	2	AN1032.OUT 304 REPETS= 1
49	190	43.1	238.4	8	0	NA	NA	1.2	1	1	2	65	1	2	AN1032.OUT 305 REPETS= 1
50	190	16	6.4	9	0	NA	NA	1.2	1	1	2	50	1	2	AN1033.OUT 313 REPETS= 1
51	120	27.8	3	9	0	NA	NA	1.2	1	1	2	50	1	2	AN1034.OUT 322 REPETS= 1
52	190	35.4	106.1	9	0	NA	NA	1.2	1	1	2	55	1	2	AN1035.OUT 331 REPETS= 1
53	120	28.2	4	10	0	NA	NA	1.2	1	1	2	50	1	2	AN1036.OUT 340 REPETS= 1
54	50	244	159.7	10	0	NA	NA	1.2	1	1	2	65	1	2	AN1037.OUT 350 REPETS= 1
55	190	36.8	103.3	10	0	NA	NA	1.2	1	1	2	55	1	2	AN1038.OUT 360 REPETS= 1
56	120	82.9	267.1	1	1	470	770	1.2	1	1	2	65	1	2	AN1039.OUT 370 REPETS= 1
57	120	82.9	267.1	1	1	470	2680	1.2	1	1	2	65	1	2	AN1039.OUT 371 REPETS= 1
58	120	82.9	267.1	8	0	NA	NA	1.2	1	1	2	65	1	2	AN1039.OUT 372 REPETS= 1
59	60	129.1	57.5	10	0	NA	NA	1.2	1	1	2	60	1	2	AN1040.OUT 380 REPETS= 1
60	120	72.9	212.7	1	1	72.9	287.6	1.2	1	1	2	65	1	2	AN1041.OUT 390 REPETS= 1
61	120	72.9	212.7	1	1	406	1246	1.2	1	1	2	65	1	2	AN1041.OUT 391 REPETS= 1
62	120	72.9	212.7	8	0	NA	NA	1.2	1	1	2	65	1	2	AN1041.OUT 392 REPETS= 1
63	50	243.1	160	10	0	NA	NA	1.2	1	1	2	65	1	2	AN1042.OUT 400 REPETS= 1
64	120	63.2	148.8	1	1	242	362	1.2	1	1	2	60	1	2	AN1045.OUT 410 REPETS= 1
65	120	63.2	148.8	9	0	NA	NA	1.2	1	1	2	60	1	2	AN1045.OUT 411 REPETS= 1
66	60	124.4	58.8	8	0	NA	NA	1.2	1	1	2	60	1	2	AN1048.OUT 420 REPETS= 1
67	150	42.6	104.1	1	1	88	146.7	1.2	1	1	2	55	1	2	AN2002.OUT 428 REPETS= 1
68	150	42.6	104.1	9	0	NA	NA	1.2	1	1	2	55	1	2	AN2002.OUT 429 REPETS= 1

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
69	120	64.2	154.1	9	0	NA	NA	1.2	1	1	2	60	1	2	AN2004.OUT 438 REPETS= 1
70	120	63.3	153.4	10	0	NA	NA	1.2	1	1	2	60	1	2	AN2005.OUT 447 REPETS= 1
71	150	44	97.9	1	0	NA	NA	1.2	1	1	2	55	1	2	AN2009.OUT 457 REPETS= 1
72	100	62.1	59.8	1	0	NA	NA	1.2	1	1	2	55	1	2	AN2010.OUT 458 REPETS= 1
73	100	65.9	69.8	1	1	65.9	155.7	1.2	1	1	2	55	1	2	AN2012.OUT 459 REPETS= 1
74	100	65.9	69.8	1	0	NA	NA	1.2	1	1	2	55	1	2	AN2012.OUT 460 REPETS= 1
75	100	33.7	3.7	1	1	47.4	77.4	1.2	1	1	2	50	1	2	AN2017.OUT 461 REPETS= 1
76	80	123.6	215.7	8	0	NA	NA	1.2	1	1	2	65	1	2	AN2018.OUT 462 REPETS= 1
77	100	33.2	4	1	1	33.2	42.2	1.2	1	1	2	50	1	2	AN2019.OUT 470 REPETS= 1
78	100	33.2	4	1	1	33.2	62.2	1.2	1	1	2	50	1	2	AN2019.OUT 471 REPETS= 1
79	100	33.2	4	1	1	33.2	77.2	1.2	1	1	2	50	1	2	AN2019.OUT 472 REPETS= 1
80	80	123	216.1	1	1	459	1299	1.2	1	1	2	65	1	2	AN2020.OUT 473 REPETS= 1
81	80	123	216.1	9	0	NA	NA	1.2	1	1	2	65	1	2	AN2020.OUT 474 REPETS= 1
82	80	41.3	2	1	0	NA	NA	1.2	1	1	2	50	1	2	AN3008.OUT 483 REPETS= 1

DC4W

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	117	50.1	57.6	1	1	228	1188	1	1	1	1	21	2	2	DR0003A 1 REPETS= 1
2	117	50.1	57.6	1	0	NA	NA	1	1	1	1	21	2	2	DR0003A 2 REPETS= 1
3	118	40.1	41.4	2	0	NA	NA	1	1	1	1	21	2	2	DR0006A 3 REPETS= 1
4	117	40.1	43.3	2	0	NA	NA	1	1	1	1	21	2	2	DR0007A 5 REPETS= 1
5	117	30.1	31.4	2	0	NA	NA	1	1	1	1	21	2	2	DR0009A 7 REPETS= 1
6	117	30	33.5	2	0	NA	NA	1	1	1	1	21	2	2	DR0010A 9 REPETS= 1
7	147	20.1	29.9	2	0	NA	NA	1	1	1	1	21	2	2	DR0011A 11 REPETS= 1
8	148	30.1	50.4	2	0	NA	NA	1	1	1	1	21	2	2	DR0012A 13 REPETS= 1
9	147	25.1	37.1	2	0	NA	NA	1	1	1	1	21	2	2	DR0014A 15 REPETS= 1
10	148	25	38.8	2	0	NA	NA	1	1	1	1	21	2	2	DR0015A 17 REPETS= 1
11	148	30	47.2	1	1	197.2	857	1	1	1	1	21	2	2	DR0016A 19 REPETS= 1
12	148	30	47.2	1	0	NA	NA	1	1	1	1	21	2	2	DR0016A 20 REPETS= 1
13	177	15	32	2	0	NA	NA	1	1	1	1	21	2	2	DR0019A 21 REPETS= 1
14	177	20	40	2	0	NA	NA	1	1	1	1	21	2	2	DR0021A 23 REPETS= 1
15	177	20	42	2	0	NA	NA	1	1	1	1	21	2	2	DR0022A 25 REPETS= 1
16	177	25	55.7	2	0	NA	NA	1	1	1	1	21	2	2	DR0023A 27 REPETS= 1
17	177	25	56	2	0	NA	NA	1	1	1	1	21	2	2	DR0024A 29 REPETS= 1
18	177	15	32.6	2	0	NA	NA	1	1	1	1	21	2	2	DR0025A 31 REPETS= 1
19	217	10	31	2	0	NA	NA	1	1	1	1	21	2	2	DR0026A 33 REPETS= 1

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
20	216	10.1	30.9	2	0	NA	NA	1	1	1	1	21	2	2	DR0027A 35 REPETS= 1
21	246	10	38.2	2	0	NA	NA	1	1	1	1	21	2	2	DR0028A 37 REPETS= 1
22	245	8.8	34	2	0	NA	NA	1	1	1	1	21	2	2	DR0029A 39 REPETS= 1
23	217	15	45.1	2	0	NA	NA	1	1	1	1	21	2	2	DR0030A 41 REPETS= 1
24	217	15	44	2	0	NA	NA	1	1	1	1	21	2	2	DR0031A 43 REPETS= 1
25	98	55	41	2	0	NA	NA	1	1	1	1	21	2	2	DR0032A 45 REPETS= 1
26	97	55.1	41.7	2	0	NA	NA	1	1	1	1	21	2	2	DR0033A 47 REPETS= 1
27	176	20.1	42.7	2	0	NA	NA	1	1	1	1	21	2	2	DR0034A 49 REPETS= 1
28	176	25	57.5	2	0	NA	NA	1	1	1	1	21	2	2	DR0035A 51 REPETS= 1
29	97	82	57.1	2	0	NA	NA	NA	NA	NA	NA	39	1	3	DD1692A 53 REPETS= 1
30	148	51	79.1	2	0	NA	NA	NA	NA	NA	NA	39	1	3	DD1694A 55 REPETS= 1
31	198	36	71.1	1	1	135	165	NA	NA	NA	NA	39	1	3	DD1695A 57 REPETS= 1
32	198	36	71.1	1	0.5	135	255	NA	NA	NA	NA	39	1	3	DD1695A 58 REPETS= 1
33	99	35	22.1	2	0	NA	NA	NA	NA	NA	NA	60	1	0	DD1719A 59 REPETS= 1
34	99	34	21.1	2	0	NA	NA	NA	NA	NA	NA	60	1	0	DD1720A 61 REPETS= 1
35	183	19	30.6	1	0	NA	NA	NA	NA	NA	NA	40	1	0	DD1724A 63 REPETS= 1
36	168	16	18.1	2	0	NA	NA	NA	NA	NA	NA	40	1	0	DD1734A 64 REPETS= 1
37	168	16	19.1	2	0	NA	NA	NA	NA	NA	NA	40	1	0	DD1735A 66 REPETS= 1
38	168	16	14.1	2	0	NA	NA	NA	NA	NA	NA	45	1	0	DD1736A 68 REPETS= 1
39	168	17	14.1	2	0	NA	NA	NA	NA	NA	NA	45	1	0	DD1737A 70 REPETS= 1
40	168	16	17.1	2	0	NA	NA	NA	NA	NA	NA	45	1	0	DD1738A 72 REPETS= 1
41	178	21	31.1	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DD1751A 74 REPETS= 1 NO TEMP
42	178	19	27.1	2	0	NA	NA	NA	NA	NA	NA	68	1	0	DD1760A 76 REPETS= 1
43	178	21	28.1	2	0	NA	NA	NA	NA	NA	NA	70	1	0	DD1761A 78 REPETS= 1
44	98	20	9.1	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DD1798A 80 REPETS= 1 NO TEMP
45	98	20	9.1	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DD1799A 82 REPETS= 1 NO TEMP
46	173	20	28.1	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DD1802A 84 REPETS= 1 NO TEMP
47	173	20	28.1	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DD1803A 86 REPETS= 1 NO TEMP
48	172	21	29.1	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DD1804A 88 REPETS= 1 NO TEMP
49	173	19	22.1	1	0	NA	NA	NA	NA	NA	NA	70	1	0	DD1805A 90 REPETS= 2
50	198	17	28.1	2	0	NA	NA	NA	NA	NA	NA	70	1	0	DD1806A 91 REPETS= 1
51	198	18	31.1	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DD1807A 93 REPETS= 1 NO TEMP
52	198	21	36.1	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DD1808A 95 REPETS= 1 NO TEMP
53	198	18	31.1	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DD1809A 96 REPETS= 1 NO TEMP
54	167	21	25.1	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DD1815A 98 REPETS= 1 NO TEMP
55	177	16	19.1	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DD1831A 100 REPETS= 1 NO TEMP
56	166	16	16.1	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DD1832A 101 REPETS= 1 NO TEMP
57	198	16	26.1	2	0	NA	NA	NA	NA	NA	NA	50	1	0	DD1865A 103 REPETS= 1

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
58	168	16	18.1	2	0	NA	NA	NA	NA	NA	NA	50	1	0	DD1866A 105 REPETS= 1
59	167	16	18.1	2	0	NA	NA	NA	NA	NA	NA	55	1	0	DD1867A 107 REPETS= 1
60	166	16	19.1	2	0	NA	NA	NA	NA	NA	NA	70	1	0	DD1868A 109 REPETS= 1
61	198	15	20.1	1	0	NA	NA	NA	NA	NA	NA	60	1	0	DD1869A 111 REPETS= 1
62	118	25	20.9	1	0	NA	NA	1.2	0	1	0	9	2	3	DR0201A 112 REPETS= 1
63	148	20	24.9	2	0	NA	NA	1.4	0	1	0	9	2	3	DR0202A 113 REPETS= 1
64	59	80	11.1	1	0	NA	NA	0.9	0	1	0	9	2	3	DR0203A 115 REPETS= 1
65	89	40	17.1	2	0	NA	NA	1	0	1	0	9	2	3	DR0204A 116 REPETS= 1
66	118	25	19.2	1	0	NA	NA	1.2	0	1	0	9	2	3	DR0205A 118 REPETS= 1
67	148	20	24.6	1	0	NA	NA	1.4	0	1	0	9	2	3	DR0206A 119 REPETS= 1
68	177	15	25.1	2	0	NA	NA	1.4	0	1	0	9	2	3	DR0207A 120 REPETS= 1
69	118	50	69.6	2	0	NA	NA	1	0	1	0	9	2	3	DR0208A 122 REPETS= 1
70	148	30	57.7	1	0.5	30	208	1.2	0	1	0	9	2	3	DR0209A 124 REPETS= 1
71	148	30	57.7	1	0	NA	NA	1.2	0	1	0	9	2	3	DR0209A 125 REPETS= 1
72	170	25	66.5	1	0	NA	NA	1.2	0	1	0	9	2	3	DR0210A 126 REPETS= 1
73	119	50	71	1	0	NA	NA	1	0	1	0	9	2	3	DR0211A 127 REPETS= 1
74	177	21	52	1	0	NA	NA	1.2	0	1	0	9	2	3	DR0214A 128 REPETS= 1
75	177	30	89.5	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0280A 129 REPETS= 1
76	177	30	86.2	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0284A 131 REPETS= 1
77	49	100	6	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0302A 133 REPETS= 1
78	89	60	42.5	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0303A 135 REPETS= 1
79	89	60	41.5	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0307A 137 REPETS= 1
80	148	40	84.6	2	0	NA	NA	1	0	1	0	10	2	3	DR0340A 139 REPETS= 1
81	108	10	3.3	2	0	NA	NA	1.4	0	1	0	10	2	3	DR0352A 141 REPETS= 1
82	118	50	68.3	2	0	NA	NA	1	0	1	0	10	2	3	DR0364A 143 REPETS= 1
83	148	40	81.4	1	0	NA	NA	1	0	1	0	10	2	3	DR0368A 145 REPETS= 1
84	148	15	17.5	1	0	NA	NA	1.4	0	1	0	10	2	3	DR0375A 146 REPETS= 1
85	97	36	13.5	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DD1877A 147 REPETS= 1
86	98	35.5	13.7	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DD1878A 148 REPETS= 1
87	150	13	7.1	1	0	NA	NA	NA	NA	NA	NA	5	2	2	DD1883A 149 REPETS= 1
88	57	46	4.3	1	0	NA	NA	NA	NA	NA	NA	5	2	2	DD1884A 150 REPETS= 1
89	151	18	5.6	1	0	NA	NA	NA	NA	NA	NA	26.6	2	2	DD1892A 151 REPETS= 1
90	98	22	9.6	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DD1893A 152 REPETS= 1 NO TEMP
91	199	15	23.4	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DD1894A 154 REPETS= 1 NO TEMP
92	199	15	24.6	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DD1895A 156 REPETS= 1 NO TEMP
93	200	14	6.6	1	0	NA	NA	NA	NA	NA	NA	26.6	2	2	DD1896A 158 REPETS= 1
94	231	11	7	1	0	NA	NA	NA	NA	NA	NA	21	2	2	DD1899A 159 REPETS= 1
95	231	12	7.1	1	0	NA	NA	NA	NA	NA	NA	21	2	2	DD1900A 160 REPETS= 1

A-6

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
96	231	11.9	7	1	0	NA	NA	NA	NA	NA	NA	21	2	2	DD1901A 161 REPETS= 1
97	101	20	4.8	2	0	NA	NA	NA	NA	NA	NA	5	2	2	DD1902A 162 REPETS= 1
98	101	27	4.8	2	0	NA	NA	0.6	2	1	1	6	2	2	DD1905A 164 REPETS= 1
99	100	27	4.8	2	0	NA	NA	0.6	2	1	1	6	2	2	DD1906A 166 REPETS= 1
100	100	34	4.8	2	0	NA	NA	0.6	2	1	1	6	2	2	DD1907A 168 REPETS= 1
101	100	34	4.8	2	0	NA	NA	0.6	2	1	1	6	2	2	DD1908A 170 REPETS= 1
102	149	17.3	5.6	2	0	NA	NA	0.6	2	1	1	6	2	2	DD1909A 172 REPETS= 1
103	150	17.3	5.7	2	0	NA	NA	0.6	2	1	1	6	2	2	DD1910A 174 REPETS= 1
104	150	21.5	5.6	2	0	NA	NA	0.6	2	1	1	6	2	2	DD1911A 176 REPETS= 1
105	150	21.5	5.7	2	0	NA	NA	0.6	2	1	1	6	2	2	DD1912A 178 REPETS= 1
106	200	16	6.6	2	0	NA	NA	0.6	2	1	1	6	2	2	DD1913A 180 REPETS= 1
107	200	16	6.5	2	0	NA	NA	0.6	2	1	1	6	2	2	DD1914A 182 REPETS= 1
108	68	46	4.2	2	0	NA	NA	0.6	2	1	1	6	2	2	DD1915A 184 REPETS= 1
109	57	66	4.1	1	0.5	157	307	0.6	2	1	1	6	2	2	DD1916A 186 REPETS= 1
110	57	66	4.1	1	0	NA	NA	0.6	2	1	1	6	2	2	DD1916A 187 REPETS= 1
111	80	46	4.4	2	0	NA	NA	0.6	2	1	1	6	2	2	DD1917A 188 REPETS= 1
112	65	66	4.2	1	0.5	187.1	427	0.6	2	1	1	6	2	2	DD1918A 190 REPETS= 1
113	65	66	4.2	1	0	NA	NA	0.6	2	1	1	6	2	2	DD1918A 191 REPETS= 1
114	64	66	4.2	2	0	NA	NA	0.6	2	1	1	6	2	2	DD1919A 192 REPETS= 1
115	232	13.5	7.2	2	0	NA	NA	0.6	2	1	1	6	2	2	DD1920A 194 REPETS= 1
116	232	13.5	7.1	2	0	NA	NA	0.6	2	1	1	6	2	2	DD1921A 196 REPETS= 1
117	232	13.5	7.2	2	0	NA	NA	0.6	2	1	1	6	2	2	DD1922A 198 REPETS= 1
118	265	11.5	7.7	2	0	NA	NA	0.6	2	1	1	6	2	2	DD1923A 200 REPETS= 1
119	265	11.5	7.7	2	0	NA	NA	0.6	2	1	1	6	2	2	DD1924A 202 REPETS= 1
120	150	22	5.6	2	0	NA	NA	0.6	2	1	1	5.6	2	2	DD1926A 204 REPETS= 1
121	150	22	5.5	2	0	NA	NA	0.6	2	1	1	5.6	2	2	DD1928A 206 REPETS= 1
122	149	21.5	5.6	4	0	NA	NA	0.6	2	1	1	5.6	2	2	DD1929A 208 REPETS= 1
123	150	20.2	5.6	2	0	NA	NA	0.6	2	1	1	5.6	2	2	DD1932A 212 REPETS= 1
124	198	15	6.4	1	1	138.3	288	0.6	2	1	1	10	2	2	DD1933A 214 REPETS= 1
125	198	15	6.4	1	0	NA	NA	0.6	2	1	1	10	2	2	DD1933A 215 REPETS= 1
126	198	15	6.6	2	0	NA	NA	0.6	2	1	1	15.5	2	2	DD1935A 216 REPETS= 1
127	231	12.8	7	1	1	12.8	29.8	0.6	2	1	1	15.5	2	2	DD1936A 218 REPETS=

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
134	98	24	13.3	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DD2014A 227 REPETS= 1
135	99	24	13.5	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DD2015A 229 REPETS= 1
136	183	15	18.6	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DD2094A 231 REPETS= 1
137	98	20	9.1	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DD2283A 233 REPETS= 1
138	103	16	6	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DD2378A 234 REPETS= 1
139	100	18	9.3	3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DD2278A 236 REPETS= 1
140	100	13	5.3	3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DD2279A 239 REPETS= 1
141	148	51	77.1	1	1	244	364	NA	NA	NA	NA	39	1	3	DD1693A 242 REPETS= 1
142	148	51	77.1	1	0	NA	NA	NA	NA	NA	NA	39	1	3	DD1693A 243 REPETS= 1
143	198	21	26.1	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DD1782A 244 REPETS= 1

SUBX87

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	80.7	0.5	0.2	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	15xax1w.dat
2	80.7	0.5	0.2	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	15xax2s.dat
3	85.6	0.5	0.2	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	15xax5y.dat
4	83.2	0.61	0.15	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	15xax8x.dat
5	105.3	0.6	0.2	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	15xb10v.dat
6	107.8	0.6	0.2	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	15xb14s.dat
7	105.3	0.7	0.2	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	15xbx1u.dat
8	102.9	0.5	0.2	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	15xbx2r.dat
9	105.3	0.8	0.2	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	15xbx3z.dat
10	105.3	1.3	0.2	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	15xbx4w.dat
11	107.8	0.9	0.3	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	15xbx8x.dat
12	97.9	0.5	0.3	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	15xbx9y.dat
13	307.1	0.5	0.5	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	16xax2z.dat
14	304.6	0.6	0.6	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	16xax4v.dat
15	302.2	0.9	0.6	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	16xax5r.dat
16	302.2	1	0.6	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	16xax6x.dat
17	307.1	0.6	0.6	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	16xax8y.dat
18	299.7	1.1	0.9	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	16xax9t.dat
19	307.1	0.6	0.5	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	16xaxdw.dat
20	297.2	0.6	0.6	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	16xbx1v.dat
21	297.2	0.75	0.5	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	16xbx2z.dat
22	302.2	1.1	0.5	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	16xbx3w.dat

A-8

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
23	292.3	0.7	0.5	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	16xbx4t.dat
24	307.1	0.84	0.6	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	16xbx8y.dat
25	299.7	0.86	0.55	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	16xbxau.dat
26	294.8	0.77	0.53	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	16xbxcx.dat
27	302.2	1.03	0.51	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	16xbxdr.dat
28	410.4	0.6	0.8	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	18xax1v.dat
29	376	0.4	0.7	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	18xax2z.dat
30	395.7	0.8	0.7	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	18xax3w.dat
31	393.2	0.5	0.8	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	18xax5t.dat
32	393.2	0.5	0.7	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	18xax9u.dat
33	395.7	0.5	0.7	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	18xaxax.dat
34	400.6	0.8	0.7	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	18xaxby.dat
35	390.7	0.5	0.8	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	18xbx1v.dat
36	390	0.5	0.7	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	18xbx4y.dat
37	398.1	0.6	0.8	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	18xbx7t.dat
38	400.6	0.4	1.1	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	18xbx8u.dat
39	403.1	0.86	0.71	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	18xbxax.dat
40	383.4	0.6	0.8	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	18xbxbw.dat
41	395.7	0.5	0.7	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	18xbxcr.dat
42	464.6	0.9	1	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	20xax1z.dat
43	499	0.6	1	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	20xax2x.dat
44	511.3	0.5	1	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	20xax3v.dat
45	459.6	0.6	1	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	20xax5s.dat
46	481.8	0.6	1	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	20xax6r.dat
47	489.2	0.6	0.9	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	20xax8u.dat
48	484.3	0.6	1.1	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	20xbx1w.dat
49	506.4	0.5	1	1	1	0.52	4.5	NA	NA	NA	NA	NA	NA	NA	20xbx2v.dat
50	503.9	0.3	1	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	20xbx3x.dat
51	499	0.5	1.1	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	20xbx5z.dat
52	484.3	0.6	1	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	20xbx7v.dat(cx1v)
53	501.5	0.6	1	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	20xbx8x.dat(cx2x)
54	481.8	0.6	1	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	20xbx9z.dat(cx3z)
55	491.6	0.6	0.9	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	20xbxaw.dat(cx4w)
56	494.1	0.6	0.9	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	20xbxbu.dat(cx5u)
57	580.2	0.65	1.2	1	1	0.82	12	NA	NA	NA	NA	NA	NA	NA	22xax1u.dat
58	602.4	0.6	1.4	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	22xax2x.dat

NMRNSW2

A-9

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	61.5	81.5	1.7	3	0	NA	NA	1.5	1	1	1	60	1	2	NSW1C01
2	61.5	83.7	1.3	3	0	NA	NA	1.5	1	1	1	60	1	2	NSW1C02
3	61.5	82.3	1.1	2	0	NA	NA	1.5	1	1	1	60	1	2	NSW1C03
4	61.5	82.3	1.1	1	0.5	206	266	1.5	1	1	1	60	1	2	NSW1C03
5	61.5	92.3	1.4	1	0	NA	NA	1.5	1	1	1	60	1	2	NSW1C04
6	61.5	92.3	1.2	3	0	NA	NA	1.5	1	1	1	60	1	2	NSW1C05
7	61.5	91.9	1.2	2	0	NA	NA	1.5	1	1	1	60	1	2	NSW1C06
8	61.5	91.9	1.2	1	1	127.5	217.5	1.5	1	1	1	60	1	2	NSW1C06
9	61.5	92.1	1.2	2	0	NA	NA	1.5	1	1	1	60	1	2	NSW1C07
10	61.5	92.1	1.5	3	0	NA	NA	1.5	1	1	1	60	1	2	NSW1C08
11	61.5	92.1	1.3	2	0	NA	NA	1.5	1	1	1	60	1	2	NSW1C09
12	61.5	92.2	1.3	2	0	NA	NA	1.5	1	1	1	60	1	2	NSW1C10
13	61.5	91.9	1.1	2	0	NA	NA	1.5	1	1	1	60	1	2	NSW1C11
14	61.5	102.2	1.3	2	0	NA	NA	1.5	1	1	1	60	1	2	NSW1C12
15	61.5	102.2	1.3	1	0.5	227	297	1.5	1	1	1	60	1	2	NSW1C12
16	61.5	102.4	1.1	1	0	NA	NA	1.5	1	1	1	60	1	2	NSW1C13
17	61.5	102.4	1.1	1	0.5	117.9	137.9	1.5	1	1	1	60	1	2	NSW1C13
18	61.5	106.1	1.3	2	0	NA	NA	1.5	1	1	1	60	1	2	NSW1C14
19	61.5	106.1	1.3	1	1	141.5	204.5	1.5	1	1	1	60	1	2	NSW1C14
20	61.5	101.6	1.3	2	0	NA	NA	1.5	1	1	1	60	1	2	NSW1C15
21	61.5	102.1	1.2	1	0	NA	NA	1.5	1	1	1	60	1	2	nsw1c16
22	61.5	102.1	1.2	1	0.5	226.7	1546.7	1.5	1	1	1	60	1	2	nsw1c16
23	61.5	102.1	1.2	1	1	226.7	467	1.5	1	1	1	60	1	2	nsw1c16
24	61.5	92.2	1.2	2	0	NA	NA	1.5	1	1	1	60	1	2	NSW1C17
25	61.5	92.2	1.2	1	1	217.7	608	1.5	1	1	1	60	1	2	NSW1C17
26	61.5	84.2	1.2	3	0	NA	NA	1.5	1	1	1	60	1	2	nsw1c18
27	61.5	82.3	1.1	1	0	NA	NA	1.5	1	1	1	60	1	2	NSW1C19
28	61.5	82.3	1.1	1	1	96.1	121.1	1.5	1	1	1	60	1	2	NSW1C19
29	61.5	242.3	1.2	3	0	NA	NA	1.5	1	1	1	65	1	2	NSW1E01
30	61.5	242.2	1.5	3	0	NA	NA	1.5	1	1	1	65	1	2	NSW1E02
31	61.5	242.8	1	3	0	NA	NA	1.5	1	1	1	65	1	2	NSW1E03
32	61.5	302.2	1.4	3	0	NA	NA	1.5	1	1	1	65	1	2	NSW1E04
33	61.5	302	1.3	2	0	NA	NA	1.5	1	1	1	65	1	2	NSW1E05
34	61.5	304.3	1.1	2	0	NA	NA	1.5	1	1	1	65	1	2	NSW1E06
35	61.5	303.2	1.4	1	0	NA	NA	1.5	1	1	1	65	1	2	NSW1E07
36	61.5	303.2	1.4	1	0.5	337.8	362.8	1.5	1	1	1	65	1	2	NSW1E07
37	61.5	363.1	1.2	3	0	NA	NA	1.5	1	1	1	70	1	2	NSW1E08

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
38	61.5	363.2	2.3	3	0	NA	NA	1.5	1	1	1	70	1	2	NSW1E09
39	61.5	363.1	1.2	3	0	NA	NA	1.5	1	1	1	70	1	2	NSWE10
40	61.5	360.1	1.1	2	0	NA	NA	1.5	1	1	1	70	1	2	NSWE11
41	61.5	362.6	1.2	3	0	NA	NA	1.5	1	1	1	70	1	2	NSWE12
42	61.5	362.2	1.1	3	0	NA	NA	1.5	1	1	1	70	1	2	NSW1E13
43	61.5	363.9	1.1	3	0	NA	NA	1.5	1	1	1	70	1	2	NSW1E14
44	61.5	93.1	1.1	3	0	NA	NA	1.5	1	1	1	70	1	2	NSWF01
45	61.5	93.1	1.2	2	0	NA	NA	1.5	1	1	1	70	1	2	NSW1F02

PASA

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	61.5	64.4	1.7	10	0	NA	NA	1.1	1	1	2	55	1	2	PAA1A01
2	61.5	69.2	1.4	9	0	NA	NA	1.1	1	1	2	55	1	2	PAA1A02
3	61.5	65.8	1.7	10	0	NA	NA	1.1	1	1	2	55	1	2	PAA1A03
4	101.5	34.8	3.1	9	0	NA	NA	1.1	1	1	2	55	1	2	PAA1D01
5	101.5	34.5	2.8	9	0	NA	NA	1.1	1	1	2	55	1	2	PAA1D02
6	101.5	34.5	2.8	1	1	36.1	267.9	1.1	1	1	2	55	1	2	PAA1D02AD
7	101.5	37.7	2.4	8	0	NA	NA	1.1	1	1	2	55	1	2	PAA1D03
8	101.5	36.4	3.3	7	0	NA	NA	1.1	1	1	2	55	1	2	PAA1D04
9	101.5	36.4	3.3	1	1	261.5	274.5	1.1	1	1	2	55	1	2	PAA1D04
10	151.5	40.3	132.8	4	0	NA	NA	1.1	1	1	1	60	1	2	PAA0D01
11	151.5	40	132.9	3	0	NA	NA	1.1	1	1	1	60	1	2	PAA0D02
12	151.5	39.8	132.8	3	0	NA	NA	1.1	1	1	1	60	1	2	PAA0D03
13	151.5	39.8	132.8	1	1	636.4	1536.4	1.1	1	1	1	60	1	2	PAA0D03
14	101.5	59.9	112.1	2	0	NA	NA	1.1	1	1	1	60	1	2	PAA0C01
15	101.5	59.9	112.1	1	0.5	689.7	929.7	1.1	1	1	1	60	1	2	PAA0C01
16	101.5	59.9	112.1	1	1	689.7	1349.7	1.1	1	1	1	60	1	2	PAA0C01
17	101.5	59.9	112.7	3	0	NA	NA	1.1	1	1	1	60	1	2	PAA0C02
18	101.5	59.9	112.7	1	1	690.8	1290.8	1.1	1	1	1	60	1	2	PAA0C02
19	101.5	60.1	167.1	2	0	NA	NA	1.1	1	1	1	60	1	2	PAA0C03
20	101.5	60.1	167.1	1	1	384.8	755.7	1.1	1	1	1	60	1	2	PAA0C03
21	101.5	60.1	167.1	1	0	NA	NA	1.1	1	1	1	60	1	2	PAA0C03AB
22	61.5	60	1.2	4	0	NA	NA	1.1	1	1	1	55	1	2	PAA0G01
23	61.5	60	1.2	4	0	NA	NA	1.1	1	1	1	55	1	2	PAA0G02
24	61.5	60	1.1	3	0	NA	NA	1.1	1	1	1	55	1	2	PAA0G03

A-10

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
25	61.5	60	1.1	1	1	525.5	705.5	1.1	1	1	1	55	1	2	PAA0G03
26	61.5	60.1	1.2	3	0	NA	NA	1.1	1	1	1	55	1	2	PAA0G04
27	61.5	60.1	1.2	1	0.5	525.8	705.8	1.1	1	1	1	55	1	2	PAA0G04
28	61.5	60	1.3	4	0	NA	NA	1.1	1	1	1	55	1	2	PAA0G05
29	61.5	60.1	1.2	4	0	NA	NA	1.1	1	1	1	55	1	2	PAA0G06
30	61.5	60	1.3	4	0	NA	NA	1.1	1	1	1	55	1	2	PAA0G07
31	101.5	25	1.9	4	0	NA	NA	1.1	1	1	1	55	1	2	PAA0H01
32	101.5	25	1.9	4	0	NA	NA	1.1	1	1	1	55	1	2	PAA0H02
33	101.5	25.1	1.8	4	0	NA	NA	1.1	1	1	1	55	1	2	PAA0H03
34	101.5	25.1	1.8	4	0	NA	NA	1.1	1	1	1	55	1	2	PAA0H04
35	101.5	25	1.8	3	0	NA	NA	1.1	1	1	1	55	1	2	PAA0H05
36	101.5	25	1.8	1	0.5	531.3	1371.3	1.1	1	1	1	55	1	2	PAA0H05

EDU545 (wet)

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
3	100	85	61	1	1	176	236	1	2	1	1	58	1	3	11/24/44 EDU545 LOG 31
4	100	85	61	1	1	176	214	1	2	1	1	58	1	3	11/24/44 EDU545 LOG 31
5	100	85	61	1	1	156	176	1	2	1	1	52	1	3	11/27/44 EDU545 LOG 31
6	100	85	61	1	1	176	274	1	2	1	1	52	1	3	11/27/44 EDU545 LOG 31
7	100	85	61	1	1	156	206	1	2	1	1	58	1	3	3/29/45 EDU545 LOG 31
8	100	85	61	1	0.5	145	156	1	2	1	1	58	1	3	3/29/45 EDU545 LOG 31
9	100	85	61	1	0.5	145	1586	1	2	1	1	64	1	3	3/28/45 EDU545 LOG 31
10	100	85	61	1	1	156	206	1	2	1	1	64	1	3	3/28/45 EDU545 LOG 31
11	100	85	61	1	1	156	191	1	2	1	1	64	1	3	3/28/45 EDU545 LOG 31
12	100	85	61	1	1	176	322	1	2	1	1	61	1	3	3/27/45 EDU545 LOG 31
13	130	55	77	1	1	142	180	1	2	1	1	48	1	3	12/1/44 EDU545 LOG 31
14	130	55	76	1	1	130	142	1	2	1	1	48	1	3	12/1/44 EDU545 LOG 31
15	130	55	76	1	1	251	556	1	2	1	1	NA	NA	NA	12/4/44 EDU545 LOG 31 NO TEMP
16	130	55	76	1	1	161	251	1	2	1	1	44	1	3	12/5/44 EDU545 LOG 31
18b	100	85	61	2	0	NA	NA	1	2	1	1	56	1	3	EDU545 LOG 31
18c	100	85	61	1	0	NA	NA	1	2	1	1	58	1	3	EDU545 LOG 31
18d	100	85	61	3	0	NA	NA	1	2	1	1	61	1	3	EDU545 LOG 31
18e	100	85	61	1	0	NA	NA	1	2	1	1	64	1	3	EDU545 LOG 31
19a	130	55	76	1	0	NA	NA	1	2	1	1	NA	NA	NA	EDU545 LOG 31
19b	130	55	76	2	0	NA	NA	1	2	1	1	52	1	3	EDU545 LOG 31

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
20	130	55	77	2	0	NA	NA	1	2	1	1	53	1	3	EDU545 LOG 31
21	130	55	80	2	0	NA	NA	1	2	1	1	47	1	3	EDU545 LOG 31
22	130	55	79	2	0	NA	NA	1	2	1	1	54	1	3	EDU545 LOG 31
23a	130	55	76	1	0	NA	NA	1	2	1	1	48	1	3	EDU545 LOG 31
23b	130	55	76	2	0	NA	NA	1	2	1	1	52	1	3	EDU545 LOG 31
23a	130	55	76	2	0	NA	NA	1	2	1	1	53	1	3	EDU545 LOG 31
24	130	55	76	2	0	NA	NA	1	2	1	1	52	1	3	EDU545 LOG 31
25	130	55	77	1	0	NA	NA	1	2	1	1	48	1	3	EDU545 LOG 31
26	150	38	65	1	0.5	38	43	1	2	1	1	46	1	3	1/11/45 EDU545 LOG 32
27	150	38	65	1	1	38	43	1	2	1	1	NA	NA	NA	1/12/45 EDU545 LOG 32 NO TEMP
28	150	38	65	1	1	102	108	1	2	1	1	NA	NA	NA	1/12/45 EDU545 LOG 32 NO TEMP
29	150	38	65	1	1	102	123	1	2	1	1	NA	NA	NA	1/16/45 EDU545 LOG 32 NO TEMP
32	170	30	59	1	1	119	209	1	2	1	1	48	1	3	3/9/45 EDU545 LOG 32
33	170	30	59	1	1	119	270	1	2	1	1	50	1	3	3/14/45 EDU545 LOG 32
34	170	30	59	1	0.5	88	89	1	2	1	1	54	1	3	3/16/45 EDU545 LOG 32
35a	150	40	84	2	0	NA	NA	1	2	1	1	38	1	3	EDU545 LOG 32
35b	150	40	84	2	0	NA	NA	1	2	1	1	44	1	3	EDU545 LOG 32
36a	150	38	65	1	0	NA	NA	1	2	1	1	46	1	3	EDU545 LOG 32
36b	150	38	65	3	0	NA	NA	1	2	1	1	NA	NA	NA	EDU545 LOG 32 NO TEMP
37a	150	38	65	2	0	NA	NA	1	2	1	1	45	1	3	EDU545 LOG 32
37b	150	38	65	3	0	NA	NA	1	2	1	1	48	1	3	EDU545 LOG 32
37c	150	38	65	2	0	NA	NA	1	2	1	1	50	1	3	EDU545 LOG 32
37d	150	38	65	3	0	NA	NA	1	2	1	1	NA	NA	NA	EDU545 LOG 32 NO TEMP
38	150	38	65	2	0	NA	NA	1	2	1	1	38	1	3	EDU545 LOG 32
39	150	38	64	1	0	NA	NA	1	2	1	1	NA	NA	NA	EDU545 LOG 32 NO TEMP
40a	170	30	59	6	0	NA	NA	1	2	1	1	48	1	3	EDU545 LOG 32
40b	170	30	59	1	0	NA	NA	1	2	1	1	50	1	3	EDU545 LOG 32
40c	170	30	59	2	0	NA	NA	1	2	1	1	56	1	3	EDU545 LOG 32
40d	170	30	59	1	0	NA	NA	1	2	1	1	62	1	3	EDU545 LOG 32
40e	170	30	59	4	0	NA	NA	1	2	1	1	NA	NA	NA	EDU545 LOG 32 NO TEMP
41	170	30	59	2	0	NA	NA	1	2	1	1	48	1	3	EDU545 LOG 32
42	170	30	59	1	0	NA	NA	1	2	1	1	48	1	3	EDU545 LOG 32
43	130	55	76	1	0	NA	NA	1	2	1	1	44	1	3	12/5/44 EDU545 LOG 31
44	100	85	61	1	0	NA	NA	1	2	1	1	64	1	3	EDU545 LOG 31

EDU545 (dry)

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations	
1	100	85	61	1	1	145	166	0.8	1	0	1	NA	NA	NA	11/6/44	EDU545 LOG 31
2	100	85	61	1	0.5	145	1586	0.8	1	0	1	NA	NA	NA	2/14/45	EDU545 LOG 31
17	100	85	61	1	0	NA	NA	0.8	1	0	1	NA	NA	NA		EDU545 LOG 31
18a	100	85	61	3	0	NA	NA	0.8	1	0	1	NA	NA	NA		EDU545 LOG 31

SINGLE NON-AIR

NMR8697

A-14

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	66	30	1.4	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
2	67	30	1.5	4	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
3	67	30	1.5	4	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
4	67	30	1.5	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
5	71	30	1.5	6	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
6	71	30	1.5	1	1	151.5	271.5	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
7	71	30	1.5	1	0.5	91.5	151.5	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
8	71	30	1.5	4	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
9	71	30	1.5	1	0.5	151.5	391.5	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
10	71	30	1.5	3	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
11	71	30	1.5	1	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
12	71	30	1.5	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
13	71	30	1.5	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
14	75	30	1.6	1	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
15	75	30	1.6	1	0.5	36.6	91.6	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
16	75	30	1.6	3	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
17	75	30	1.6	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
18	75	30	1.6	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
19	79	30	1.7	5	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
20	79	30	1.7	1	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
21	79	30	1.7	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
22	79	30	1.7	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
23	83	30	1.7	1	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
24	83	30	1.7	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
25	83	30	1.7	4	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
26	83	30	1.7	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
27	83	30	1.7	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
28	87	30	1.8	3	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
29	87	30	1.8	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
30	87	30	1.8	5	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
31	91	30	1.9	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
32	91	30	1.9	1	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
33	95	30	1.9	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
34	95	30	1.9	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
35	95	30	1.9	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
36	95	30	1.9	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
37	95	30	1.9	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
38	100	30	2	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
39	100	30	2	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
40	100	30	2	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
41	100	30	2	4	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
42	105	30	2.1	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
43	105	30	2.1	4	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
44	105	30	2.1	1	0.5	92.1	152.1	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
45	105	30	2.1	3	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
46	110	30	2.2	4	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
47	110	30	2.2	4	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
48	110	30	2.2	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
49	115	30	2.3	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
50	115	30	2.3	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
51	115	30	2.3	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
52	115	30	2.3	4	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
53	120	30	2.3	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
54	120	30	2.3	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
55	120	30	2.3	4	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
56	120	30	2.3	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
57	125	30	2.4	1	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
58	125	30	2.4	1	1	152.4	272.4	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
59	125	30	2.4	3	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
60	125	30	2.4	4	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
61	125	30	2.4	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
62	130	30	2.5	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
63	130	30	2.5	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
64	130	30	2.5	1	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
65	130	30	2.5	1	1	32.5	36.5	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
66	130	30	2.5	1	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
67	43	60	1	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
68	43	60	1	4	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
69	43	60	1	4	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
70	44	60	1.1	4	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
71	44	60	1.1	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
72	44	60	1.1	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
73	44	60	1.1	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
74	46	60	1.1	1	1	121.1	166.1	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
75	46	60	1.1	1	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
76	46	60	1.1	1	1	181.1	781.1	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
77	46	60	1.1	3	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
78	46	60	1.1	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
79	46	60	1.1	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
80	47	60	1.1	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
81	47	60	1.1	4	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
82	47	60	1.1	3	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
83	47	60	1.1	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
84	50	60	1.2	6	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
85	50	60	1.2	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
86	50	60	1.2	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
87	53	60	1.2	3	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
88	53	60	1.2	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
89	53	60	1.2	4	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
90	53	60	1.2	1	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
91	56	60	1.3	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
92	56	60	1.3	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
93	56	60	1.3	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
94	56	60	1.3	1	0.5	181.3	421.3	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
95	56	60	1.3	1	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
96	56	60	1.3	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
97	59	60	1.3	1	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
98	59	60	1.3	1	0.5	121.3	181.3	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
99	59	60	1.3	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
100	59	60	1.3	1	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
101	59	60	1.3	1	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
102	59	60	1.3	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
103	72	60	1.5	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
104	72	60	1.5	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
105	72	60	1.5	1	0.5	181.5	301.5	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
106	72	60	1.5	1	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
107	72	60	1.5	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
108	72	60	1.5	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
109	72	60	1.5	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
110	76	60	1.6	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
111	76	60	1.6	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
112	76	60	1.6	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
113	76	60	1.6	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
114	76	60	1.6	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
115	80	60	1.7	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
116	80	60	1.7	1	0.5	181.7	421.7	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
117	80	60	1.7	1	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
118	80	60	1.7	1	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
119	80	60	1.7	1	0.5	66.7	81.7	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
120	80	60	1.7	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
121	80	60	1.7	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
122	84	60	1.7	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
123	84	60	1.7	4	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
124	84	60	1.7	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
125	84	60	1.7	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
126	88	60	1.8	1	0.5	66.8	81.8	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
127	88	60	1.8	1	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
128	88	60	1.8	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
129	88	60	1.8	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
130	88	60	1.8	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
131	88	60	1.8	1	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
132	88	60	1.8	1	1	181.8	241.8	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
133	88	60	1.8	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
134	88	60	1.8	3	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
135	88	60	1.8	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
136	88	60	1.8	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
137	92	60	1.9	1	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
138	92	60	1.9	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
139	92	60	1.9	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
140	92	60	1.9	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
141	92	60	1.9	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
142	96	60	1.9	1	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
143	96	60	1.9	1	1	66.9	81.9	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
144	96	60	1.9	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
145	96	60	1.9	1	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
146	96	60	1.9	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
147	96	60	1.9	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
148	96	60	1.9	1	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
149	96	60	1.9	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
150	25	240.2	0.6	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
151	25	240.2	0.6	4	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
152	25	240.2	0.6	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
153	25	240.2	0.6	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
154	27	240.2	0.6	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
155	27	240.2	0.6	4	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
156	27	240.2	0.6	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
157	27	240.2	0.6	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
158	29	240.2	0.6	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
159	29	240.2	0.6	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
160	29	240.2	0.6	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
161	29	240.2	0.6	1	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
162	29	240.2	0.6	1	1	360.8	660.8	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
163	29	240.2	0.6	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
164	31	240.2	0.7	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
165	31	240.2	0.7	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
166	31	240.2	0.7	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
167	31	240.2	0.7	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
168	31	240.2	0.7	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
169	33	240.2	0.7	5	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
170	33	240.2	0.7	1	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
171	33	240.2	0.7	1	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
172	33	240.2	0.7	1	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
173	33	240.2	0.7	1	1	360.9	600.9	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
174	33	240.2	0.7	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
175	34	240.2	0.7	4	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
176	34	240.2	0.7	1	0.5	300.9	360.9	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
177	34	240.2	0.7	1	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
178	34	240.2	0.7	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
179	34	240.2	0.7	1	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
180	34	240.2	0.7	1	0.5	300.9	360.9	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
181	35	240.2	0.7	1	0.5	245.9	300.9	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
182	35	240.2	0.7	1	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
183	35	240.2	0.7	4	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
184	35	240.2	0.7	1	1	245.9	300.9	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
185	36	240.2	0.7	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
186	36	240.2	0.7	1	0.5	300.9	390.9	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
187	36	240.2	0.7	1	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
188	36	240.2	0.7	3	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
189	36	240.2	0.7	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
190	36	240.2	0.7	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
191	38	240.2	0.8	2	0	NA	NA	NA	NA	NA	NA	71	1	2	DRA4:[WEATHERSBY.DLE]8301
192	50	240	1.2	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
193	50	240	1.2	1	1	361.2	601.2	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
194	50	240	1.2	5	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
195	50	240	1.2	4	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
196	50	240	1.2	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
197	50	240	1.2	4	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
198	50	240	1.2	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
199	54	240	1.2	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
200	54	240	1.2	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
201	54	240	1.2	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
202	54	240	1.2	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
203	54	240	1.2	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
204	58	240	1.3	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
205	58	240	1.3	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
206	58	240	1.3	4	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
207	58	240	1.3	1	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
208	58	240	1.3	1	0.5	301.3	361.3	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
209	62	240	1.4	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
210	62	240	1.4	4	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
211	62	240	1.4	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
212	62	240	1.4	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
213	66	240	1.4	4	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
214	66	240	1.4	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
215	66	240	1.4	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
216	66	240	1.4	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
217	70	240	1.5	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
218	70	240	1.5	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
219	70	240	1.5	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
220	70	240	1.5	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
221	70	240	1.5	1	0.5	301.5	361.5	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
222	70	240	1.5	1	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
223	74	240	1.6	1	0.5	361.6	451.6	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
224	74	240	1.6	1	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
225	74	240	1.6	1	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
226	74	240	1.6	1	0.5	361.6	601.6	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
227	74	240	1.6	3	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
228	74	240	1.6	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301
229	74	240	1.6	2	0	NA	NA	1.25	5	1	1	71	1	2	DRA4:[WEATHERSBY.DLE]8301

EDU1180S

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	150	73.2	143.8	1	1	252	312	0.6	1	1	2	76	1	2	DIV361 1 REPETS= 1
2	150	73.2	143.8	1	1	252	327	0.6	1	1	2	76	1	2	DIV361 2 REPETS= 1
3	150	73.2	143.8	8	0	NA	NA	0.6	1	1	2	76	1	2	DIV361 3 REPETS= 1
4	149	79.3	176.7	1	1	381	681	0.6	1	1	2	76	1	2	DIV461 11 REPETS= 1
5	149	79.3	176.7	9	0	NA	NA	0.6	1	1	2	76	1	2	DIV461 12 REPETS= 1
6	150	73.2	140.8	10	0	NA	NA	0.6	1	1	2	76	1	2	DIV561 21 REPETS= 1
7	150	72.3	142.7	1	1	230	265	0.6	1	1	2	76	1	2	DIV562 31 REPETS= 1
8	150	72.3	142.7	1	1	340	700	0.6	1	1	2	76	1	2	DIV562 32 REPETS= 1
9	150	72.3	142.7	1	1	91.4	240	0.6	1	1	2	76	1	2	DIV562 33 REPETS= 1
10	150	72.3	142.7	7	0	NA	NA	0.6	1	1	2	76	1	2	DIV562 34 REPETS= 1
11	150	60	108	1	1	203	233	0.6	1	1	2	76	1	2	DIV571 41 REPETS= 1
12	150	60	108	1	1	293	593	0.6	1	1	2	76	1	2	DIV571 42 REPETS= 1
13	150	60	108	1	1	203	263	0.6	1	1	2	76	1	2	DIV571 43 REPETS= 1
14	150	60	108	7	0	NA	NA	0.6	1	1	2	76	1	2	DIV571 44 REPETS= 1
15	100	67.1	54.9	1	1	157	217	0.6	1	1	2	76	1	2	DIV581 51 REPETS= 1
16	100	67.1	54.9	9	0	NA	NA	0.6	1	1	2	76	1	2	DIV581 52 REPETS= 1
17	150	42.8	74.2	10	0	NA	NA	0.6	1	1	2	76	1	2	DIV591 61 REPETS= 1
18	150	37.7	72.3	10	0	NA	NA	0.6	1	1	2	76	1	2	DIV592 71 REPETS= 1
19	100	54.9	46.1	10	0	NA	NA	0.6	1	1	2	76	1	2	DIV5A1 81 REPETS= 1
20	100	67.8	46.2	10	0	NA	NA	0.6	1	1	2	76	1	2	DIV5A2 91 REPETS= 1
21	75	124.9	55.1	10	0	NA	NA	0.6	1	1	2	76	1	2	DIV5C1 101 REPETS= 1
22	75	126.2	54.8	10	0	NA	NA	0.6	1	1	2	76	1	2	DIV5C2 111 REPETS= 1

EDU885M

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	100	66.4	47.8	9	0	NA	NA	1.2	1	1	2	55	1	2	AN1043.O 1 REPETS= 1
2	100	62.9	48.1	10	0	NA	NA	1.2	1	1	2	55	1	2	AN1044.O 10 REPETS= 1
3	150	35.6	35.1	9	0	NA	NA	1.2	1	1	2	50	1	2	AN1046.O 20 REPETS= 1
4	150	33.3	34.8	10	0	NA	NA	1.2	1	1	2	50	1	2	AN1047.O 29 REPETS= 1
5	100	65.3	48.2	8	0	NA	NA	1.2	1	1	2	55	1	2	AN2001.O 39 REPETS= 1
6	150	64.8	221.7	1	1	407	467	1.2	1	1	2	65	1	2	AN2003.O 47 REPETS= 1
7	150	64.8	221.7	1	1	317	437	1.2	1	1	2	65	1	2	AN2003.O 48 REPETS= 1
8	150	64.8	221.7	7	0	NA	NA	1.2	1	1	2	65	1	2	AN2003.O 49 REPETS= 1
9	150	47.3	86.8	8	0	NA	NA	1.2	1	1	2	55	1	2	AN2006.O 56 REPETS= 2
10	150	44.6	86.2	1	1	251	971	1.2	1	1	2	55	1	2	AN2007.O 64 REPETS= 1
11	150	44.6	86.2	1	1	251	1211	1.2	1	1	2	55	1	2	AN2007.O 65 REPETS= 1
12	150	44.6	86.2	7	0	NA	NA	1.2	1	1	2	55	1	2	AN2007.O 66 REPETS= 1
13	150	43.7	84.6	9	0	NA	NA	1.2	1	1	2	55	1	2	AN2008.O 73 REPETS= 1

REPETITIVE & MULTILEVEL AIR

PAMLA

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	81.5	240.1	97.7	6	0	NA	NA	1.1	1	1	2	70	1	2	PAA1B01
2	81.5	240.1	97.7	1	1	269.4	359.3	1.1	1	1	2	70	1	2	PAA1B01
3	81.5	240.1	97.7	1	0.5	459.3	789.3	1.1	1	1	2	70	1	2	PAA1B01
4	81.5	240.1	97.7	1	0.5	459.3	579.3	1.1	1	1	2	70	1	2	PAA1B01
5	81.5	240.1	97.7	1	0.5	459.3	879.3	1.1	1	1	2	70	1	2	PAA1B01
6	81.5	240.4	95.6	9	0	NA	NA	1.1	1	1	2	70	1	2	PAA1B02
7	81.5	240.4	95.6	1	0.5	240.4	266.5	1.1	1	1	2	70	1	2	PAA1B02
8	81.5	240.1	97.4	9	0	NA	NA	1.1	1	1	2	70	1	2	PAA1B03
9	81.5	240.1	97.4	1	1	462.3	522.3	1.1	1	1	2	70	1	2	PAA1B03
10	81.5	240.1	97.8	6	0	NA	NA	1.1	1	1	2	70	1	2	PAA1B04
11	81.5	240.1	97.8	1	1	460.8	490.8	1.1	1	1	2	70	1	2	PAA1B04
12	81.5	240.1	97.8	1	1	460.8	600.8	1.1	1	1	2	70	1	2	PAA1B04
13	61.5	240.3	50.4	10	0	NA	NA	1.1	1	1	2	65	1	2	PAA1C101
14	61.5	240.3	49.9	10	0	NA	NA	1.1	1	1	2	65	1	2	PAA1C102
15	61.5	239.8	50.7	7	0	NA	NA	1.1	1	1	2	65	1	2	PAA1C103
16	61.5	239.8	50.7	1	1	411.4	621.4	1.1	1	1	2	65	1	2	PAA1C103
17	61.5	239.8	50.7	1	1	411.4	2091.4	1.1	1	1	2	65	1	2	PAA1C103
18	61.5	239.8	50.7	1	0.5	411.4	711.4	1.1	1	1	2	65	1	2	PAA1C103
19	61.5	240.4	49.7	7	0	NA	NA	1.1	1	1	2	65	1	2	PAA1C104
20	61.5	240.4	49.7	3	0.5	240.4	289.9	1.1	1	1	2	65	1	2	PAA1C104
21	61.5	240.1	49.9	9	0	NA	NA	1.1	1	1	2	65	1	2	PAA1C105
22	61.5	300.1	58.3	7	0	NA	NA	1.1	1	1	2	70	1	2	PAA1C201
23	61.5	300.1	58.3	1	1	389.3	429.3	1.1	1	1	2	70	1	2	PAA1C201
24	61.5	300.1	58.3	1	0.5	374.3	429.3	1.1	1	1	2	70	1	2	PAA1C201
25	61.5	300.1	58.3	1	0.5	479.3	779.3	1.1	1	1	2	70	1	2	PAA1C201
26	61.5	300	57.8	8	0	NA	NA	1.1	1	1	2	70	1	2	PAA1C202
27	61.5	300	57.8	1	1	481.5	491.5	1.1	1	1	2	70	1	2	PAA1C202
28	61.5	300	57.8	1	0.5	481.5	601.5	1.1	1	1	2	70	1	2	PAA1C202
29	61.5	300.4	57.8	8	0	NA	NA	1.1	1	1	2	70	1	2	PAA1C203
30	61.5	300.4	57.8	1	1	380.7	420.7	1.1	1	1	2	70	1	2	PAA1C203
31	61.5	300.4	57.8	1	0.5	480.7	900.7	1.1	1	1	2	70	1	2	PAA1C203
32	61.5	300.1	57.6	7	0	NA	NA	1.1	1	1	2	70	1	2	PAA1C301
33	60	61.5	132.5	1	0	NA	NA	1.1	1	1	2	70	1	2	PAA1C301AB
34	61.5	302.3	58.1	10	0	NA	NA	1.1	1	1	2	70	1	2	PAA1C302

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
35	61.5	300	58.1	9	0	NA	NA	1.1	1	1	2	70	1	2	PAA1C303
36	61.5	300	58.1	1	1	479.2	599.2	1.1	1	1	2	70	1	2	PAA1C303
37	61.5	300.1	58.2	9	0	NA	NA	1.1	1	1	2	70	1	2	PAA1C304
38	61.5	300	58.3	5	0	NA	NA	1.1	1	1	2	70	1	2	PAA1C305
39	81.5	240.2	202.6	10	0	NA	NA	1.1	1	1	2	70	1	2	PAA1E01
40	81.5	240.3	202.6	8	0	NA	NA	1.1	1	1	2	70	1	2	PAA1E02
41	80	70.3	69.7	1	0	NA	NA	1.1	1	1	2	70	1	2	PAA1E02AB
42	81.5	240.3	202.6	1	1	573	633	1.1	1	1	2	70	1	2	PAA1E02
43	81.5	240	207.4	9	0	NA	NA	1.1	1	1	2	70	1	2	PAA1E03
44	81.5	240	207.4	1	1	569.5	1409.5	1.1	1	1	2	70	1	2	PAA1E03
45	81.5	240	202.4	9	0	NA	NA	1.1	1	1	2	70	1	2	PAA1E04
46	81.5	240.1	202.7	8	0	NA	NA	1.1	1	1	2	70	1	2	PAA1E05
47	81.5	240.1	202.7	1	1	564.1	579.1	1.1	1	1	2	70	1	2	PAA1E05
48	51.5	451.4	26.6	10	0	NA	NA	1.1	1	1	2	75	1	2	PAAIIA01
49	51.5	451.6	31.6	9	0	NA	NA	1.1	1	1	2	75	1	2	PAAIIA02
50	51.5	451	31.8	10	0	NA	NA	1.1	1	1	2	75	1	2	PAAIIA03

EDU885AR

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	150	44	97.9	7	0	NA	NA	1.2	1	1	2	55	1	2	AN2009.OUT 1 REPETS= 2
2	100	62.1	59.8	1	1	301.1	334.1	1.2	1	1	2	55	1	2	AN2010.OUT 8 REPETS= 2
3	100	62.1	59.8	1	1	205	481.9	1.2	1	1	2	55	1	2	AN2010.OUT 9 REPETS= 3
4	100	62.1	59.8	1	1	592	892	1.2	1	1	2	55	1	2	AN2010.OUT 10 REPETS= 3
5	100	62.1	59.8	6	0	NA	NA	1.2	1	1	2	55	1	2	AN2010.OUT 11 REPETS= 3
6	150	43.9	97.1	1	1	458.9	464.2	1.2	1	1	2	55	1	2	AN2011.OUT 17 REPETS= 2
7	150	43.9	97.1	1	1	579.2	1719	1.2	1	1	2	55	1	2	AN2011.OUT 18 REPETS= 2
8	150	43.9	97.1	7	0	NA	NA	1.2	1	1	2	55	1	2	AN2011.OUT 19 REPETS= 2
9	100	65.9	69.8	7	0	NA	NA	1.2	1	1	2	55	1	2	AN2012.OUT 26 REPETS= 3
10	100	33.7	3.7	1	1	243.8	334	1.2	1	1	2	50	1	2	AN2017.OUT 33 REPETS= 2
11	100	33.7	3.7	8	0	NA	NA	1.2	1	1	2	50	1	2	AN2017.OUT 34 REPETS= 2
12	100	33.2	4	7	0	NA	NA	1.2	1	1	2	50	1	2	AN2019.OUT 42 REPETS= 2
13	100	30.3	3.7	10	0	NA	NA	1.2	1	1	2	50	1	2	AN2021.OUT 49 REPETS= 2
14	100	29.7	3.3	6	0	NA	NA	1.2	1	1	2	50	1	2	AN2022.OUT 59 REPETS= 2
15	80	43.2	2.7	1	1	280.7	292.9	1.2	1	1	2	50	1	2	AN3001.OUT 65 REPETS= 2
16	80	43.2	2.7	9	0	NA	NA	1.2	1	1	2	50	1	2	AN3001.OUT 66 REPETS= 2

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
17	80	43.4	2.1	10	0	NA	NA	1.2	1	1	2	50	1	2	AN3002.OUT 75 REPETS= 2
18	80	42.3	2.9	1	1	173.3	188.4	1.2	1	1	2	50	1	2	AN3003.OUT 85 REPETS= 2
19	80	42.3	2.9	9	0	NA	NA	1.2	1	1	2	50	1	2	AN3003.OUT 86 REPETS= 2
20	100	28.9	2.9	1	1	195.4	318	1.2	1	1	2	50	1	2	AN3004.OUT 95 REPETS= 3
21	100	28.9	2.9	1	1	318	438	1.2	1	1	2	50	1	2	AN3004.OUT 96 REPETS= 3
22	100	28.9	2.9	8	0	NA	NA	1.2	1	1	2	50	1	2	AN3004.OUT 97 REPETS= 3
23	100	13.1	2.9	9	0	NA	NA	1.2	1	1	2	50	1	2	AN3005.OUT 105 REPETS= 3
24	80	41.9	2.6	10	0	NA	NA	1.2	1	1	2	50	1	2	AN3006.OUT 114 REPETS= 2
25	80	41.9	2.4	1	1	206	266	1.2	1	1	2	50	1	2	AN3007.OUT 124 REPETS= 2
26	80	41.9	2.4	9	0	NA	NA	1.2	1	1	2	50	1	2	AN3007.OUT 125 REPETS= 2
27	80	41.3	2	9	0	NA	NA	1.2	1	1	2	50	1	2	AN3008.OUT 134 REPETS= 2
28	80	41.4	2.3	10	0	NA	NA	1.2	1	1	2	50	1	2	AN3009.OUT 143 REPETS= 2
29	120	24.1	4.9	10	0	NA	NA	1.2	1	1	2	50	1	2	AN3011.OUT 153 REPETS= 2
30	150	20.5	4.7	10	0	NA	NA	1.2	1	1	2	50	1	2	AN3013.OUT 163 REPETS= 2
31	120	23	3.7	10	0	NA	NA	1.2	1	1	2	50	1	2	AN3015.OUT 173 REPETS= 2

PARA

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	61.5	64.4	1.7	10	0	NA	NA	1.1	1	1	2	55	1	2	PAA1A01
2	61.5	69.2	1.4	9	0	NA	NA	1.1	1	1	2	55	1	2	PAA1A02
3	61.5	65.8	1.7	10	0	NA	NA	1.1	1	1	2	55	1	2	PAA1A03
4	101.5	34.8	3.1	9	0	NA	NA	1.1	1	1	2	55	1	2	PAA1D01
5	101.5	34.5	2.8	9	0	NA	NA	1.1	1	1	2	55	1	2	PAA1D02
6	101.5	34.5	2.8	1	1	36.1	267.9	1.1	1	1	2	55	1	2	PAA1D02AD
7	101.5	37.7	2.4	8	0	NA	NA	1.1	1	1	2	55	1	2	PAA1D03
8	101.5	36.4	3.3	7	0	NA	NA	1.1	1	1	2	55	1	2	PAA1D04
9	101.5	36.4	3.3	1	1	261.5	274.5	1.1	1	1	2	55	1	2	PAA1D04
10	151.5	40.3	132.8	4	0	NA	NA	1.1	1	1	1	60	1	2	PAA0D01
11	151.5	40	132.9	3	0	NA	NA	1.1	1	1	1	60	1	2	PAA0D02
12	151.5	39.8	132.8	3	0	NA	NA	1.1	1	1	1	60	1	2	PAA0D03
13	151.5	39.8	132.8	1	1	636.4	1536.4	1.1	1	1	1	60	1	2	PAA0D03
14	101.5	59.9	112.1	2	0	NA	NA	1.1	1	1	1	60	1	2	PAA0C01
15	101.5	59.9	112.1	1	0.5	689.7	929.7	1.1	1	1	1	60	1	2	PAA0C01
16	101.5	59.9	112.1	1	1	689.7	1349.7	1.1	1	1	1	60	1	2	PAA0C01
17	101.5	59.9	112.7	3	0	NA	NA	1.1	1	1	1	60	1	2	PAA0C02

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
18	101.5	59.9	112.7	1	1	690.8	1290.8	1.1	1	1	1	60	1	2	PAA0C02
19	101.5	60.1	167.1	2	0	NA	NA	1.1	1	1	1	60	1	2	PAA0C03
20	101.5	60.1	167.1	1	1	384.8	755.7	1.1	1	1	1	60	1	2	PAA0C03
21	101.5	60.1	167.1	1	0	NA	NA	1.1	1	1	1	60	1	2	PAA0C03AB
22	61.5	60	1.2	4	0	NA	NA	1.1	1	1	1	55	1	2	PAA0G01
23	61.5	60	1.2	4	0	NA	NA	1.1	1	1	1	55	1	2	PAA0G02
24	61.5	60	1.1	3	0	NA	NA	1.1	1	1	1	55	1	2	PAA0G03
25	61.5	60	1.1	1	1	525.5	705.5	1.1	1	1	1	55	1	2	PAA0G03
26	61.5	60.1	1.2	3	0	NA	NA	1.1	1	1	1	55	1	2	PAA0G04
27	61.5	60.1	1.2	1	0.5	525.8	705.8	1.1	1	1	1	55	1	2	PAA0G04
28	61.5	60	1.3	4	0	NA	NA	1.1	1	1	1	55	1	2	PAA0G05
29	61.5	60.1	1.2	4	0	NA	NA	1.1	1	1	1	55	1	2	PAA0G06
30	61.5	60	1.3	4	0	NA	NA	1.1	1	1	1	55	1	2	PAA0G07
31	101.5	25	1.9	4	0	NA	NA	1.1	1	1	1	55	1	2	PAA0H01
32	101.5	25	1.9	4	0	NA	NA	1.1	1	1	1	55	1	2	PAA0H02
33	101.5	25.1	1.8	4	0	NA	NA	1.1	1	1	1	55	1	2	PAA0H03
34	101.5	25.1	1.8	4	0	NA	NA	1.1	1	1	1	55	1	2	PAA0H04
35	101.5	25	1.8	3	0	NA	NA	1.1	1	1	1	55	1	2	PAA0H05
36	101.5	25	1.8	1	0.5	531.3	1371.3	1.1	1	1	1	55	1	2	PAA0H05

DC4WR

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	120	40	49.5	2	0	NA	NA	1	0	1	0	9	2	3	DR0276A REPETS= 2
2	150	30	52	1	0	NA	NA	1.2	0	1	0	9	2	3	DR0278A REPETS= 2
3	150	30	52	1	1	229.1	292.2	1.2	0	1	0	9	2	3	DR0278A REPETS= 2
4	180	30	89.5	2	0	NA	NA	1.2	0	1	0	9	2	3	DR0280A REPETS= 2
5	120	40	50.3	1	0	NA	NA	1	0	1	0	9	2	3	DR0272R REPETS= 2
6	120	40	50.3	1	1	388	868	1	0	1	0	9	2	3	DR0272R REPETS= 2
7	150	30	57.7	2	0	NA	NA	1.2	0	1	0	9	2	3	DR0274R REPETS= 2
8	180	30	86.2	1	0	NA	NA	1.2	0	1	0	9	2	3	DR0285R REPETS= 2
9	180	30	86.2	1	1	329.5	345.6	1.2	0	1	0	9	2	3	DR0285R REPETS= 2

REPETITIVE AND MULTILEVEL NON-AIR

EDU184

A-26

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	60	75.8	4.7	1	1	348.9	363.5	1	1	1	2	55	1	2	MDC018.OUT 1 REPETS= 3
2	60	75.8	4.7	9	0	NA	NA	1	1	1	2	55	1	2	MDC018.OUT 2 REPETS= 3
3	60	75.6	4.5	9	0	NA	NA	1	1	1	2	55	1	2	MDC019.OUT 11 REPETS= 3
4a	100	26.3	6.2	7	0	NA	NA	1	1	1	2	50	1	2	MDC020.OUT 20 REPETS= 4
4b	100	26.3	6.2	1	0	NA	NA	1	1	1	2	50	1	2	MDC020.OUT 20 REPETS= 4
4c	100	26.3	6.2	1	0	NA	NA	1	1	1	2	50	1	2	MDC020.OUT 20 REPETS= 4
4d	100	26.3	6.2	1	0	NA	NA	1	1	1	2	50	1	2	MDC020.OUT 20 REPETS= 4
5	100	22.9	5.5	1	1	243	258	1	1	1	2	50	1	2	MDC021.OUT 30 REPETS= 3
6	100	22.9	5.5	9	0	NA	NA	1	1	1	2	50	1	2	MDC021.OUT 31 REPETS= 5
7	60	68.7	4	10	0	NA	NA	1	1	1	2	55	1	2	MDC022.OUT 40 REPETS= 3
8	80	38.8	3.7	1	0	NA	NA	1	1	1	2	50	1	2	MDC023.OUT 50 REPETS= 1
9	80	38.8	3.7	9	0	NA	NA	1	1	1	2	50	1	2	MDC023.OUT 51 REPETS= 4
10	80	47.4	3.2	1	0	NA	NA	NA	NA	NA	NA	50	1	2	MDC024.OUT 60 REPETS= 1
11	80	47.4	3.2	1	1	360.9	365.7	1	1	1	2	50	1	2	MDC024.OUT 61 REPETS= 4
12	80	47.4	3.2	1	1	277.2	374.7	1	1	1	2	50	1	2	MDC024.OUT 62 REPETS= 4
13	80	47.4	3.2	7	0	NA	NA	1	1	1	2	50	1	2	MDC024.OUT 63 REPETS= 4
14	40	207.8	2.4	10	0	NA	NA	1	1	1	2	65	1	2	MDC025.OUT 70 REPETS= 2
15	40	211.9	2.3	10	0	NA	NA	1	1	1	2	65	1	2	MDC026.OUT 80 REPETS= 2
16	150	30.7	66.3	1	1	384.2	390.2	1	1	1	2	55	1	2	MDC027.OUT 90 REPETS= 3
17	150	30.7	66.3	1	1	299.1	315	1	1	1	2	55	1	2	MDC027.OUT 91 REPETS= 2
18	150	30.7	66.3	8	0	NA	NA	1	1	1	2	55	1	2	MDC027.OUT 92 REPETS= 3
19	150	42.3	41.1	1	0	NA	NA	1	1	1	2	55	1	2	MDC028.OUT 100 REPETS= 2
20	150	42.3	41.1	1	0	NA	NA	1	1	1	2	55	1	2	MDC028.OUT 101 REPETS= 3
21	150	42.3	41.1	1	1	71.6	92.9	1	1	1	2	55	1	2	MDC028.OUT 102 REPETS= 1
22	150	42.3	41.1	1	1	322.1	352.1	1	1	1	2	55	1	2	MDC028.OUT 103 REPETS= 3
23	150	42.3	41.1	1	1	312.1	407	1	1	1	2	55	1	2	MDC028.OUT 104 REPETS= 4
24	150	42.3	41.1	5	0	NA	NA	1	1	1	2	55	1	2	MDC028.OUT 105 REPETS= 4
25	80	42.4	4.4	1	0	NA	NA	1	1	1	2	50	1	2	MDC029.OUT 110 REPETS= 3
26	80	42.4	4.4	9	0	NA	NA	1	1	1	2	50	1	2	MDC029.OUT 111 REPETS= 4
27	80	41.9	4.1	10	0	NA	NA	1	1	1	2	50	1	2	MDC030.OUT 120 REPETS= 4
28	100	23.3	4.7	1	0	NA	NA	1	1	1	2	50	1	2	MDC031.OUT 130 REPETS= 3
29	100	23.3	4.7	9	0	NA	NA	1	1	1	2	50	1	2	MDC031.OUT 131 REPETS= 4
30	40	366.4	2.1	10	0	NA	NA	1	1	1	2	65	1	2	MDC032.OUT 140 REPETS= 1
31	100	33.9	3.6	10	0	NA	NA	1	1	1	2	50	1	2	MDC033.OUT 150 REPETS= 4

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
32	60	85.6	2.8	1	0	NA	NA	1	1	1	2	55	1	2	MDC034.OUT 160 REPETS= 1
33	60	85.6	2.8	1	1	333.3	348.3	1	1	1	2	55	1	2	MDC034.OUT 161 REPETS= 3
34	60	85.6	2.8	8	0	NA	NA	1	1	1	2	55	1	2	MDC034.OUT 162 REPETS= 3
35	150	39.1	87.1	1	1	331.7	355.4	1	1	1	2	55	1	2	MDC035.OUT 170 REPETS= 2
36	150	39.1	87.1	9	0	NA	NA	1	1	1	2	55	1	2	MDC035.OUT 171 REPETS= 3
37	100	64.8	70	10	0	NA	NA	1	1	1	2	55	1	2	MDC036.OUT 180 REPETS= 2
38a	120	21.6	4.1	7	0	NA	NA	1	1	1	2	45	1	2	MDC037.OUT 190 REPETS= 4
38b	120	21.6	4.1	2	0	NA	NA	1	1	1	2	45	1	2	MDC037.OUT 190 REPETS= 4
38c	120	21.6	4.1	1	0	NA	NA	1	1	1	2	45	1	2	MDC037.OUT 190 REPETS= 4
39	120	24.7	3.2	10	0	NA	NA	1	1	1	2	45	1	2	HE1040.OUT 200 REPETS= 1
40	120	24.5	3.3	10	0	NA	NA	1	1	1	2	45	1	2	HE1041.OUT 210 REPETS= 1
41	120	20.7	2.9	10	0	NA	NA	1	1	1	2	45	1	2	HE1042.OUT 220 REPETS= 1
42	50	145.3	3.4	10	0	NA	NA	1	1	1	2	60	1	2	MDC999.NOT 230 REPETS= 2

PAMLAOS

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	81.5	241.2	113.5	8	0	NA	NA	1.1	1	1	2	70	1	2	PAIIIA01
2	81.5	242.3	167.2	8	0	NA	NA	1.1	1	1	2	70	1	2	PAIIIA02
3	81.5	242.3	167.2	1	1	530.2	710.2	1.1	1	1	2	70	1	2	PAIIIA02
4	81.5	242.3	167.2	1	1	63	129.5	1.1	1	1	2	70	1	2	PAIIIA02
5	81.5	242.9	168.8	7	0	NA	NA	1.1	1	1	2	70	1	2	PAIIIA03
6	81.5	242.9	168.8	1	1	532.8	542.8	1.1	1	1	2	70	1	2	PAIIIA03
7	81.5	242.9	168.8	1	1	532.8	562.8	1.1	1	1	2	70	1	2	PAIIIA03
8	81.5	242.9	168.8	1	1	425.8	532.8	1.1	1	1	2	70	1	2	PAIIIA03
9	81.5	482	12.2	10	0	NA	NA	1.1	1	1	2	75	1	2	PAIIIB01
10	81.5	482.9	12.3	9	0	NA	NA	1.1	1	1	2	75	1	2	PAIIIB02
11	81.5	482.2	12.2	9	0	NA	NA	1.1	1	1	2	75	1	2	PAIIIB03
12	61.5	511.2	21.7	9	0	NA	NA	1.1	1	1	2	75	1	2	PAIIIC01
13	61.5	511.2	21.7	1	0	NA	NA	1.1	1	1	2	75	1	2	PAIIIC01AB
14	61.5	512.5	21.8	10	0	NA	NA	1.1	1	1	2	75	1	2	PAIIIC02
15	61.5	512	22.9	10	0	NA	NA	1.1	1	1	2	75	1	2	PAIIIC03
16	81.5	618.1	32.5	8	0	NA	NA	1.1	1	1	2	75	1	2	PAIIID01
17	81.5	33.1	254.4	1	0	NA	NA	1.1	1	1	2	75	1	2	PAIIID01AB
18	81.5	618.9	32.8	9	0	NA	NA	1.1	1	1	2	75	1	2	PAIIID02
19	81.5	622.8	37.8	7	0	NA	NA	1.1	1	1	2	75	1	2	PAIIID03

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
20	81.5	622.8	37.8	2	0.5	780.6	960.6	1.1	1	1	2	75	1	2	PAAIID03
21	61.5	631.2	12.3	10	0	NA	NA	1.1	1	1	2	75	1	2	PAAIIIE01
22	61.5	637.6	6.8	6	0	NA	NA	1.1	1	1	2	75	1	2	PAAIIIE02
23	61.5	637.6	6.8	1	0.5	659.3	764.3	1.1	1	1	2	75	1	2	PAAIIIE02
24	61.5	630.4	6.9	10	0	NA	NA	1.1	1	1	2	75	1	2	PAAIIIE03

PAMLAOD

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	81.5	242.2	130.3	8	0	NA	NA	1.1	1	1	2	70	1	2	PAAIIB01
2	81.5	242.2	130.3	1	1	492.5	1092.5	1.1	1	1	2	70	1	2	PAAIIB01
3	81.5	241.1	125.1	8	0	NA	NA	1.1	1	1	2	70	1	2	PAAIIB02
4	81.5	241.1	125.1	1	1	382.2	537.2	1.1	1	1	2	70	1	2	PAAIIB02
5	81.5	241.1	125.1	1	1	381.2	411.2	1.1	1	1	2	70	1	2	PAAIIB02
6	81.5	361	92.4	10	0	NA	NA	1.1	1	1	2	70	1	2	PAAIIC01
7	81.5	361.1	97.3	9	0	NA	NA	1.1	1	1	2	70	1	2	PAAIIC02
8	81.5	361.1	97.3	1	1	372.8	412.8	1.1	1	1	2	70	1	2	PAAIIC02AD
9	81.5	361.3	95.5	10	0	NA	NA	1.1	1	1	2	70	1	2	PAAIIC03
10	81.5	361.5	98.6	10	0	NA	NA	1.1	1	1	2	70	1	2	PAAIIC04
11	61.5	541.2	98.4	10	0	NA	NA	1.1	1	1	2	75	1	2	PAAIID01
12	61.5	540.9	99.1	9	0	NA	NA	1.1	1	1	2	75	1	2	PAAIID02
13	61.5	540.9	99.1	1	1	760	910	1.1	1	1	2	75	1	2	PAAIID02
14	61.5	541.2	98	9	0	NA	NA	1.1	1	1	2	75	1	2	PAAIID03
15	61.5	541.2	98	1	1	759.2	1369.2	1.1	1	1	2	75	1	2	PAAIID03
16	61.5	540.1	97.3	10	0	NA	NA	1.1	1	1	2	75	1	2	PAAIID04
17	61.5	541.4	87	9	0	NA	NA	1.1	1	1	2	75	1	2	PAAIID05
18	81.5	362	189.1	10	0	NA	NA	1.1	1	1	2	75	1	2	PAAIIE01
19	81.5	361.1	188.7	10	0	NA	NA	1.1	1	1	2	75	1	2	PAAIIE02
20	81.5	361.2	182.7	6	0	NA	NA	1.1	1	1	2	75	1	2	PAAIIE03

EDU885S

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	100	93.2	125	9	0	NA	NA	1.2	1	1	2	60	1	2	*** [.EDURAW]AN2013.OUT;1
2	100	93.3	124.5	10	0	NA	NA	1.2	1	1	2	60	1	2	*** [.EDURAW]AN2014.OUT;1
3	150	43.2	64.6	9	0	NA	NA	1.2	1	1	2	55	1	2	*** [.EDURAW]AN2015.OUT;1
4	150	47.8	64.3	10	0	NA	NA	1.2	1	1	2	55	1	2	*** [.EDURAW]AN2016.OUT;1
5	80	52.5	1.2	9	0	NA	NA	1.2	1	1	2	65	1	2	*** [.EDURAW]AN3010.OUT;1
6	80	52.5	1.2	1	1	449	569	1.2	1	1	2	65	1	2	*** [.EDURAW]AN3010.OUT;1
7	80	63.1	1.2	8	0	NA	NA	1.2	1	1	2	65	1	2	*** [.EDURAW]AN3012.OUT;1
8	80	63.1	1.2	1	1	490	1210	1.2	1	1	2	65	1	2	*** [.EDURAW]AN3012.OUT;1
9	80	63.1	1.2	1	1	490	4690	1.2	1	1	2	65	1	2	*** [.EDURAW]AN3012.OUT;1
10	80	52.9	1.3	7	0	NA	NA	1.2	1	1	2	65	1	2	*** [.EDURAW]AN3014.OUT;1
11	80	52.9	1.3	1	1	374.4	464.4	1.2	1	1	2	65	1	2	*** [.EDURAW]AN3014.OUT;1
12	80	64.1	1.1	10	0	NA	NA	1.2	1	1	2	65	1	2	*** [.EDURAW]AN3016.OUT;1
13	60	123.2	34.2	9	0	NA	NA	1.2	1	1	2	55	1	2	*** [.EDURAW]AN3017.OUT;1
14	60	124.1	34	9	0	NA	NA	1.2	1	1	2	55	1	2	*** [.EDURAW]AN3018.OUT;1

AIR + OXYGEN DECOMPRESSION

NMR94EOD

A-30

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	60	239.8	74.3	4	0	0	0	1	1	0	1	NA	NA	NA	EOD0B01
2	60	239.8	74.3	1	0	NA	NA	1	1	0	1	NA	NA	NA	EOD0B01
3	60	240.1	73.5	5	0	0	0	1	1	0	1	NA	NA	NA	EOD0B02
4	60	239.9	74.7	5	0	0	0	1	1	0	1	NA	NA	NA	EOD0B03
5	60	239.9	74.1	5	0	0	0	1	1	0	1	NA	NA	NA	EOD0B04
6	60	240	75.1	5	0	0	0	1	1	0	1	NA	NA	NA	EOD0B05
7	60	240	73.8	5	0	0	0	1	1	0	1	NA	NA	NA	EOD0B06
8	60	239.9	75.1	4	0	0	0	1	1	0	1	NA	NA	NA	EOD0B07
9	60	239.9	75.1	1	1	346.1	436.1	1	1	0	1	NA	NA	NA	EOD0B07
10	60	239.9	74.4	4	0	0	0	1	1	0	1	NA	NA	NA	EOD0B08
11	60	239.9	74.4	1	0.5	435.6	915.6	1	1	0	1	NA	NA	NA	EOD0B08
12	60	239.9	74.2	5	0	0	0	1	1	0	1	NA	NA	NA	EOD0B09
13	60	239.5	77.3	5	0	0	0	1	1	0	1	NA	NA	NA	EOD0B10
14	60	240	73	4	0	0	0	1	1	0	1	NA	NA	NA	EOD0B11
15	60	240	73	1	1	344.2	402.2	1	1	0	1	NA	NA	NA	EOD0B11
16	60	240	74.3	5	0	0	0	1	1	0	1	NA	NA	NA	EOD0B12
17	60	179.9	24	5	0	0	0	1	1	0	1	NA	NA	NA	EOD0A01
18	60	180	24.7	4	0	0	0	1	1	0	1	NA	NA	NA	EOD0A02
19	60	180	24.7	1	0	NA	NA	1	1	0	1	NA	NA	NA	EOD0A02
20	60	179.9	24	5	0	0	0	1	1	0	1	NA	NA	NA	EOD0A03
21	60	179.9	23.9	5	0	0	0	1	1	0	1	NA	NA	NA	EOD0A04
22	60	180	24.1	2	0	0	0	1	1	0	1	NA	NA	NA	EOD0A05
23	60	180	24.1	1	1	215.3	286.3	1	1	0	1	NA	NA	NA	EOD0A05
24	60	180	24.1	1	0.5	325.3	685.3	1	1	0	1	NA	NA	NA	EOD0A05
25	60	180	24.1	1	0.5	0	0	1	1	0	1	NA	NA	NA	EOD0A05
26	60	180.2	24	3	0	0	0	1	1	0	1	NA	NA	NA	EOD0A06
27	60	180.2	24	1	1	325.2	434.2	1	1	0	1	NA	NA	NA	EOD0A06
28	60	180.2	24	1	1	325.2	1225.2	1	1	0	1	NA	NA	NA	EOD0A06
29	60	179.9	24.2	4	0	0	0	1	1	0	1	NA	NA	NA	EOD0A07
30	60	179.9	24.2	1	0.5	325.4	1285.4	1	1	0	1	NA	NA	NA	EOD0A07
31	60	179.8	24.2	5	0	0	0	1	1	0	1	NA	NA	NA	EOD0A08
32	60	180	23.8	4	0	0	0	1	1	0	1	NA	NA	NA	EOD0A09
33	60	180	23.8	1	0.5	215	325	1	1	0	1	NA	NA	NA	EOD0A09
34	60	179.9	24	5	0	0	0	1	1	0	1	NA	NA	NA	EOD0A10

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
35	60	180	24.6	3	0	0	0	1	1	0	1	NA	NA	NA	EOD0A11
36	60	180	24.6	1	0	NA	NA	1	1	0	1	NA	NA	NA	EOD0A11
37	60	180	24.6	1	1	181.2	1456.8	1	1	0	1	NA	NA	NA	EOD0A11
38	60	180	24.1	5	0	0	0	1	1	0	1	NA	NA	NA	EOD0A12
39	150	59.9	47	3	0	0	0	1	1	0	1	NA	NA	NA	EOD0C01
40	150	59.9	47	1	1	138.2	225.2	1	1	0	1	NA	NA	NA	EOD0C01
41	150	59.9	47	1	1	228.2	378.2	1	1	0	1	NA	NA	NA	EOD0C01
42	150	60	48.3	3	0	0	0	1	1	0	1	NA	NA	NA	EOD0C02
43	150	60	48.3	1	1	106.9	146.4	1	1	0	1	NA	NA	NA	EOD0C02
44	150	60	48.3	1	1	106.9	139.4	1	1	0	1	NA	NA	NA	EOD0C02
45	150	59.9	63.3	1	0	0	0	1	1	0	1	NA	NA	NA	EOD1C01
46	150	59.9	63.3	1	1	244.4	964.4	1	1	0	1	NA	NA	NA	EOD1C01
47	150	59.9	63.3	1	0.5	244.4	1204.4	1	1	0	1	NA	NA	NA	EOD1C01
48	150	59.9	63.3	1	0.5	244.4	1564.4	1	1	0	1	NA	NA	NA	EOD1C01
49	150	59.9	63.3	1	0.5	244.4	1204.4	1	1	0	1	NA	NA	NA	EOD1C01
50	150	59.9	63.1	3	0	0	0	1	1	0	1	NA	NA	NA	EOD1C02
51	150	59.9	63.1	1	1	244.2	354.2	1	1	0	1	NA	NA	NA	EOD1C02
52	150	59.9	63.1	1	0.5	244.2	1564.2	1	1	0	1	NA	NA	NA	EOD1C02
53	150	55	102.5	3	0	0	0	1	1	0	1	NA	NA	NA	EOD2C01
54	150	55	102.5	1	1	278.8	1276.8	1	1	0	1	NA	NA	NA	EOD2C01
55	150	55	102.5	1	1	278.8	1511.8	1	1	0	1	NA	NA	NA	EOD2C01
56	150	54.9	101.4	5	0	0	0	1	1	0	1	NA	NA	NA	EOD2C02
57	150	54.9	102.8	4	0	0	0	1	1	0	1	NA	NA	NA	EOD2C03
58	150	54.9	102.8	1	1	169	279	1	1	0	1	NA	NA	NA	EOD2C03
59	150	55.1	101.9	4	0	0	0	1	1	0	1	NA	NA	NA	EOD2C04
60	150	55	102.1	4	0	0	0	1	1	0	1	NA	NA	NA	EOD2C05
61	150	55	102.1	1	1	278.3	1215.3	1	1	0	1	NA	NA	NA	EOD2C05
62	150	55	131.7	5	0	0	0	1	1	0	1	NA	NA	NA	EOD3C01
63	150	55	131.3	5	0	0	0	1	1	0	1	NA	NA	NA	EOD3C02
64	150	55	132.7	5	0	0	0	1	1	0	1	NA	NA	NA	EOD3C03
65	150	55	131.8	5	0	0	0	1	1	0	1	NA	NA	NA	EOD3C04
66	150	55	132.2	5	0	0	0	1	1	0	1	NA	NA	NA	EOD3C05
67	150	54.9	131.7	5	0	0	0	1	1	0	1	NA	NA	NA	EOD3C06
68	150	54.9	131.6	5	0	0	0	1	1	0	1	NA	NA	NA	EOD3C07
69	150	54.9	131.3	5	0	0	0	1	1	0	1	NA	NA	NA	EOD3C08
70	150	55	132.1	5	0	0	0	1	1	0	1	NA	NA	NA	EOD3C09
71	150	55	131.8	5	0	0	0	1	1	0	1	NA	NA	NA	EOD3C10
72	150	54.9	132	5	0	0	0	1	1	0	1	NA	NA	NA	EOD3C11

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
73	150	55	133.2	5	0	0	0	1	1	0	1	NA	NA	NA	EOD3C12
74	170	39.9	90.9	5	0	0	0	1	1	0	1	NA	NA	NA	EOD0D01
75	170	40	90.6	5	0	0	0	1	1	0	1	NA	NA	NA	EOD0D02
76	170	39.9	91.2	5	0	0	0	1	1	0	1	NA	NA	NA	EOD0D03
77	170	39.9	91.3	5	0	0	0	1	1	0	1	NA	NA	NA	EOD0D04
78	170	40	90.6	5	0	0	0	1	1	0	1	NA	NA	NA	EOD0D05
79	170	39.9	92.4	4	0	0	0	1	1	0	1	NA	NA	NA	EOD0D06
80	170	39.9	92.4	1	1	253.6	1295.6	1	1	0	1	NA	NA	NA	EOD0D06
81	170	39.9	91.2	5	0	0	0	1	1	0	1	NA	NA	NA	EOD0D07
82	170	40.1	91.2	5	0	0	0	1	1	0	1	NA	NA	NA	EOD0D08
83	170	39.9	91	5	0	0	0	1	1	0	1	NA	NA	NA	EOD0D09
84	170	40	90.3	5	0	0	0	1	1	0	1	NA	NA	NA	EOD0D10
85	170	39.9	91	5	0	0	0	1	1	0	1	NA	NA	NA	EOD0D11
86	170	40	92.3	5	0	0	0	1	1	0	1	NA	NA	NA	EOD0D12

DC8AOD

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	200	28	75.2	5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0395A 1 REPETS= 1
2	184	29	68	3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0396A 6 REPETS= 1
3	180	29	62.2	3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0434A 9 REPETS= 1
4	180	39	82.5	4	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0435A 12 REPETS= 1
5	180	30	61.8	5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0436A 16 REPETS= 1
6	180	33	72.9	7	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0440A 21 REPETS= 1
7	180	33	72.9	5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0441A 28 REPETS= 1
8	180	32	81.9	4	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0445A 33 REPETS= 1
9	180	39	82	6	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0447A 37 REPETS= 1
10	180	38	7.5	1	0.5	38	48	NA	NA	NA	NA	NA	NA	NA	DR0448A 43 REPETS= 1
11	180	38	82.9	5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0448A 44 REPETS= 1
12	180	39	82.1	6	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0450A 49 REPETS= 1
13	180	33	82	6	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0451A 55 REPETS= 1
14	180	32	82.1	10	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0455A 61 REPETS= 1
15	180	30	82.1	10	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0458A 71 REPETS= 1
16	177	14	22.1	5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0523A 81 REPETS= 1
17	240	24	113.1	4	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0526A 86 REPETS= 1
18	297	19	128.8	3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0532A 90 REPETS= 1

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
57	148	40	52	1	1	213	512	NA	NA	NA	NA	NA	NA	NA	DR0244A 196 REPETS= 1
58	148	40	52	3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0244A 197 REPETS= 1
59	148	30	40	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0304A 200 REPETS= 1
60	148	30	38.1	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0306A 202 REPETS= 1
61	118	50	43.7	7	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0345A 203 REPETS= 1
62	148	40	52.3	1	1	122	182	NA	NA	NA	NA	NA	NA	NA	DR0346A 210 REPETS= 1
63	148	40	52.3	9	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0346A 211 REPETS= 1
64	59	80	8.2	10	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0363A 220 REPETS= 1
65	79	34	8.6	10	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0369A 230 REPETS= 1
66	98	21	9.2	11	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0370A 240 REPETS= 1
67	180	19	35.5	6	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0541A 251 REPETS= 1

DC8AOW

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	121	2.3	106	2	0	NA	NA	1	0	1	0	9	2	3	DR0018A 1 REPETS= 1
2	90	22	27	1	0	NA	NA	1.2	1	1	1	13.5	2	3	DR0170A 3 REPETS= 1
3	120	50	41.9	1	0	NA	NA	1.2	1	1	1	13.5	2	3	DR0171A 4 REPETS= 1
4	90	60	26.9	1	0	NA	NA	1.2	1	1	1	13.5	2	3	DR0172A 5 REPETS= 1
5	150	40	52.7	1	1	123	235	1.2	1	1	1	13.5	2	3	DR0184A 6 REPETS= 1
6	100	60	35.3	1	0	NA	NA	1.2	1	1	1	13.5	2	3	DR0186A 7 REPETS= 1
7	120	50	41.5	1	0	NA	NA	1.2	1	1	1	13.5	2	3	DR0187A 8 REPETS= 1
8	150	40	52.7	1	0	NA	NA	1.2	1	1	1	13.5	2	3	DR0189A 9 REPETS= 1
9	180	30	54.7	1	0	NA	NA	1.6	1	1	1	13.5	2	3	DR0190A 10 REPETS= 1
10	180	30	54.1	1	0	NA	NA	1.6	1	1	1	13.5	2	3	DR0192A 11 REPETS= 1
11	90	60	26.6	1	0	NA	NA	1.2	1	1	1	13.5	2	3	DR0193A 12 REPETS= 1
12	90	60	28.4	1	0	NA	NA	1	0	1	0	9	2	3	DR0219A 13 REPETS= 1
13	120	50	43	2	0	NA	NA	1	0	1	0	9	2	3	DR0220A 14 REPETS= 1
14	150	40	54	1	0	NA	NA	1	0	1	0	9	2	3	DR0221A 16 REPETS= 1
15	180	30	55.6	2	0	NA	NA	1.2	0	1	0	9	2	3	DR0222A 17 REPETS= 1
16	90	60	29.1	2	0	NA	NA	1	0	1	0	9	2	3	DR0223A 19 REPETS= 1
17	120	50	42.7	2	0	NA	NA	1	0	1	0	9	2	3	DR0224A 21 REPETS= 1
18	180	30	55.6	1	0	NA	NA	1.2	0	1	0	9	2	3	DR0226A 23 REPETS= 1
19	120	50	42	2	0	NA	NA	1	0	1	0	9	2	3	DR0237A 24 REPETS= 1
20	90	60	28.3	2	0	NA	NA	1	0	1	0	9	2	3	DR0238A 26 REPETS= 1
21	180	30	50.3	2	0	NA	NA	1.2	0	1	0	9	2	3	DR0239A 28 REPETS= 1

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
22	150	40	53.3	2	0	NA	NA	1	0	1	0	9	2	3	DR0240A 30 REPETS= 1
23	120	50	43.2	2	0	NA	NA	1	0	1	0	9	2	3	DR0241A 32 REPETS= 1
24	90	60	28.3	2	0	NA	NA	1	0	1	0	9	2	3	DR0242A 34 REPETS= 1
25	180	30	56.2	2	0	NA	NA	1.2	0	1	0	9	2	3	DR0243A 36 REPETS= 1
26	150	40	52	2	0	NA	NA	1	0	1	0	9	2	3	DR0244A 38 REPETS= 1
27	150	40	52.3	1	0.5	122	152	1	0	1	0	10	2	3	DR0346A 40 REPETS= 1
28	150	40	52.3	1	1	90.2	102.3	1	0	1	0	10	2	3	DR0346A 41 REPETS= 1
29	150	30	40	2	0	NA	NA	1.2	0	1	0	9	2	3	DR0304A 42 REPETS= 1
30	150	30	38.1	2	0	NA	NA	1.2	0	1	0	9	2	3	DR0306A 44 REPETS= 1
31	147.6	208	34	1	1	65.5	82.7	1.1	3	1	2	10	2	3	DR0322R

SATURATION

ASATARE

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	65.3	2880	1625	3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	Rescue 1 test mod
2	71.8	2880	1625	3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	Rescue 2
3	78.3	2880	1620	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	Rescue 3
4	78.3	2880	1620	1	1	2880	3067	NA	NA	NA	NA	NA	NA	NA	Rescue 3
5	78.3	2880	1620	1	1	2880	3455	NA	NA	NA	NA	NA	NA	NA	Rescue 3
6	75.1	2875	1625	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	Rescue 4
7	75.1	2880	1625	1	1	2880	4575	NA	NA	NA	NA	NA	NA	NA	Rescue 4
8	75.1	2880	1625	3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	Rescue 5
9	75.1	2879	1455	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	Rescue 6
10	75.1	2879	1455	1	1	2880	3382	NA	NA	NA	NA	NA	NA	NA	Rescue 6
11	75.1	2850	1625	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	Rescue 7
12	75.1	2850	1625	1	0.5	2880	4655	NA	NA	NA	NA	NA	NA	NA	Rescue 7
13	23.5	2880	1.83	5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderI dive 1
14	22.8	2880	2	5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderI dive 2
15	26.1	2880	1.4	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderI dive 3
16	26.1	2880	1.4	1	1	2880	3270	NA	NA	NA	NA	NA	NA	NA	IslanderI dive 3
17	26.1	2880	1.4	2	0.5	2880	3960	NA	NA	NA	NA	NA	NA	NA	IslanderI dive 3
18	26.1	2880	2	4	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderI dive 4
19	26.1	2880	2	1	1	2880	3065	NA	NA	NA	NA	NA	NA	NA	IslanderI dive 4
20	22.8	2880	2	5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderI dive 5
21	22.8	2879	6	5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderI dive 6
22	22.8	2875	2	4	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderI dive 7 (.02b CO2)
23	22.8	2875	2	1	0.5	2880	3398	NA	NA	NA	NA	NA	NA	NA	IslanderI dive 7 (.02b CO2)
24	22.8	2880	3	5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderI dive 8 (.02b CO2)
25	26.1	2882	5	5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderI dive 9 (.02b CO2)
26	26.1	2880	3	3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderI dive 10 (.02b CO2)
27	26.1	2880	3	1	1	2880	3260	NA	NA	NA	NA	NA	NA	NA	IslanderI dive 10 (.02b CO2)
28	26.1	2880	3	1	0.5	2880	3260	NA	NA	NA	NA	NA	NA	NA	IslanderI dive 10 (.02b CO2)
29	26.1	2880	2	4	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderI dive 11 (.02b CO2)
30	26.1	2880	2	1	1	2880	3105	NA	NA	NA	NA	NA	NA	NA	IslanderI dive 11 (.02b CO2)
31	22.8	2862	4	5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderI dive 12 (.02b CO2)
32	22.8	2880	2	5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderI dive 13 (.02b CO2)
33	71.8	2891	2781	4	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 1
34	71.8	2891	2781	1	1	4336	5529	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 1

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
35	71.8	2894	2645	4	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 2
36	71.8	2894	2645	1	1	2894	3016	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 2
37	71.8	2888	2645	4	0.5	2888	3853	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 3
38	71.8	2888	2645	1	1	2888	5821	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 3
39	71.8	2891	3005	3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 4
40	71.8	2891	3005	1	0.5	2891	3913	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 4
41	71.8	2891	3005	1	0.5	4696	5881	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 4
42	71.8	2892	2645	4	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 5 (.02b CO2)
43	71.8	2892	2645	1	1	2892	3002	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 5 (.02b CO2)
44	71.8	2889	2645	5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 6 (.02b CO2)
45	71.8	2892	2645	3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 7 (.02b CO2)
46	71.8	2892	2645	1	1	4337	5359	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 7 (.02b CO2)
47	71.8	2892	2645	1	1	4337	5825	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 7 (.02b CO2)
48	68.5	2891	2645	3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 8 (.02b CO2)
49	68.5	2891	2645	1	1	2891	3106	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 8 (.02b CO2)
50	68.5	2891	2645	1	0.5	2891	2951	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 8 (.02b CO2)
51	65.3	2895	2645	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 9 (.02b CO2)
52	65.3	2895	2645	1	1	2895	2923	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 9 (.02b CO2)
53	65.3	2895	2645	1	1	2895	4275	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 9 (.02b CO2)
54	65.3	2892	2645	5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 10 (.02b CO2)
55	65.3	2890	2645	5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 11 (.02b CO2)
56	65.3	2890	2645	3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 12 (.02b CO2)
57	65.3	2890	2645	1	1	2890	3269	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 12 (.02b CO2)
58	65.3	2890	2645	1	0.5	4335	6131	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 12 (.02b CO2)
59	62	2891	2645	4	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 13 (.02b CO2)
60	62	2891	2645	1	1	4336	8086	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 13 (.02b CO2)
61	62	2873	2645	5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 14 (.02b CO2)
62	62	2890	2645	5	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 15 (.02b CO2)
63	62	2891	2645	4	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 16 (.02b CO2)
64	62	2891	2645	1	1	4336	5296	NA	NA	NA	NA	NA	NA	NA	IslanderII dive 16 (.02b CO2)

A-38

[illegible]

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
38	111	2880.66	3860	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	AIRSAT-5H
39	111	2880	5426.83	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	AIRSAT-5I
40	111	2880	5426.83	1	1	5252	5972	NA	NA	NA	NA	NA	NA	NA	AIRSAT-5I
41	111	2880	3862.58	4	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	AIRSAT-5J
42	132	4320	3766.9	3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	AIRSAT6A
43	132	4321.3	3766.7	3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	AIRSAT6B
44	132	4320.02	3767.85	4	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	AIRSAT6C
45	132	4320	3767	3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	AIRSAT6D

ASATEDU

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	60	2760	1260	6	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 79-8 REPETS= 1
2	60	2760	1260	1	1	3225	3945	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 79-8 REPETS= 1
3	60	2760	1260	1	1	3270	3990	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 79-8 REPETS= 1
4	60	2760	1260	1	1	3120	3840	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 79-8 REPETS= 1
5	60	2760	1260	1	1	4140	6900	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 79-8 REPETS= 1
6	60	4896	1620	7	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 79-30 REPETS= 1
7	60	4896	1620	1	1	5946	6666	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 79-30 REPETS= 1
8	60	4896	1620	1	1	6006	6726	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 79-30 REPETS= 1
9	60	4896	1620	1	1	5916	6636	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 79-30 REPETS= 1
10	60	5655	1645	6	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 79-38 REPETS= 1
11	60	5655	1645	1	1	6730	7450	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 79-38 REPETS= 1
12	60	5655	1645	3	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 79-38 REPETS= 1
13	60	5820	2061	9	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 81-8 RECOMP 12-
14	60	5820	740	1	1	5820	6560	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 81-8 RECOMP 12-2
15	60	5896	1622	6	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 81-13
16	60	5896	1622	4	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 81-13
17	60	5896	1622	1	1	6797	7517	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 81-13
18	60	5569	1763	10	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 82-41 REPETS= 1
19	60	5583	1760	1	1	7463	7823	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 83-42 EXCURS= 1
20	60	5583	1760	7	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 83-42 EXCURS= 1
21	60	5583	1760	2	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 83-42 REPET = 1
22	60	5589	2163	9	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 83-46 EXCURS= 1
23	60	5589	2163	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 83-46 REPETS= 1
24	60	5643	1841	8	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 84-42 REPETS= 1

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
25	60	5643	1841	1	0.5	5643	6095	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 84-42 REPETS= 1
26	60	5280	2204	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 84-42 REPETS= 1
27	60	4374	2162	4	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 86-06 EXCURS= 9
28	60	4374	2162	1	1	6656	7231	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 86-06 EXCURS= 9
29	60	7020	1840	9	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NEDU TEST APR-87 REPETS=
30	50	4210	2883	7	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 88-01 EXCURS= 1
31	50	4320	2884	7	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 88-03 EXCURS= 1
32	50	4320	2884	1	1	4320	7494	NA	NA	NA	NA	NA	NA	NA	NEDU TEST 88-03 EXCURS= 1

ASATNMR

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	20	5767	14	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	**DIVE # 1
2	20	5767	14	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	**DIVE # 1
3	20	5767	14	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	**DIVE # 1
4	20	5767	14	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	**DIVE # 1
5	20	6165	13	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DIVE # 2
6	20	6165	13	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DIVE # 2
7	20	6165	13	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DIVE # 2
8	20	6165	13	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DIVE # 2
9	20	5810	13.37	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DIVE # 3
10	20	5810	13.37	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DIVE # 3
11	20	5810	13.37	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DIVE # 3
12	20	5810	13.37	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DIVE # 3
13	20	6181	10.17	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DIVE # 4
14	20	6181	10.17	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DIVE # 4
15	20	6181	10.17	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DIVE # 4
16	20	6181	10.17	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DIVE # 4
17	20	5795	13	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DIVE # 5
18	20	5795	13	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DIVE # 5
19	20	5795	13	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DIVE # 5
20	20	5795	13	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DIVE # 5
21	20	6180	10	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DIVE # 6
22	20	6180	10	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DIVE # 6
23	20	6180	10	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DIVE # 6
24	20	6180	10	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DIVE # 6

A-40

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
25	20	6179	13.17	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	**DIVE # 7
26	20	6179	13.17	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	**DIVE # 7
27	20	6179	13.17	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	**DIVE # 7
28	20	6179	13.17	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	**DIVE # 7
29	20	5821	12.87	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DIVE * 8
30	20	5821	12.87	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DIVE * 8
31	20	5797	12.87	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DIVE * 8
32	20	5797	12.87	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DIVE * 8
33	24	4320	0.4	17	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NMRI JUL 88
34	24	4320	0.4	1	1	4440	4485	NA	NA	NA	NA	NA	NA	NA	NMRI JUL 88

SUBSATURATION

NSM6HR

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	28	360	3	3	0	NA	NA	1.5	1	0	1	NA	NA	NA	nsm890214
2	28	360	3	3	0	NA	NA	1.5	1	0	1	NA	NA	NA	nsm890307
3	28	360	3	4	0	NA	NA	1.5	1	0	1	NA	NA	NA	nsm890323
4	32	360	1.3	6	0	NA	NA	1.5	1	0	1	NA	NA	NA	nsm890410
5	32	360	1.3	5	0	NA	NA	1.5	1	0	1	NA	NA	NA	nsm890511
6	36	360	1.4	4	0	NA	NA	1.5	1	0	1	NA	NA	NA	nsm890920
7	36	360	1.4	3	0	NA	NA	1.5	1	0	1	NA	NA	NA	nsm891004
8	36	360	1.9	4	0	NA	NA	1.5	1	0	1	NA	NA	NA	nsm891019
9	38	360	0.67	3	0	NA	NA	1.5	1	0	1	NA	NA	NA	nsm911015
10	38	360	0.67	1	0.5	480.67	960.67	1.5	1	0	1	NA	NA	NA	nsm911015
11	38	360	1.1	3	0	NA	NA	1.5	1	0	1	NA	NA	NA	nsm911017
12	38	359	0.8	2	0	NA	NA	1.5	1	0	1	NA	NA	NA	nsm911203
13	38	359	0.8	1	1	480.8	4260.8	1.5	1	0	1	NA	NA	NA	nsm911203
14	40	360	1.53	4	0	NA	NA	1.5	1	0	1	NA	NA	NA	nsm910205
15	40	360	0.9	2	0	NA	NA	1.5	1	0	1	NA	NA	NA	nsm910221
16	40	360	0.9	1	1	370.9	425.9	1.5	1	0	1	NA	NA	NA	nsm910221
17	40	360	0.7	6	0	NA	NA	1.5	1	0	1	NA	NA	NA	nsm910314
18	40	360	0.7	1	1	360	580	1.5	1	0	1	NA	NA	NA	nsm910821
19	40	360	0.7	1	0.5	480.7	1480.7	1.5	1	0	1	NA	NA	NA	nsm910821

SURFACE DECOMPRESSION (AIR)

EDU545SUR (wet)

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
13	100	85	71	1	1	104	134	1.5	2	1	1	57	1	3	11/10/44 EDU545 LOG 31
14	100	85	71	1	0.5	186	291	NA	NA	NA	NA	57	1	3	11/10/44EDU545 LOG 31
15	100	85	71	1	0.5	104	134	1.5	2	1	1	56	1	3	11/13/44EDU545 LOG 31
16	100	85	74	1	1	169	206	1.5	2	1	1	57	1	3	11/14/44 EDU545 LOG 31
17	100	85	71	1	1	166	185	1.5	2	1	1	60	1	3	11/15/44 EDU545 LOG 31
18	100	85	72	1	1	167	217	NA	NA	NA	NA	58	1	3	11/15/44 EDU545 LOG 31
19	100	85	72	1	0.5	156	172	1.5	2	1	1	58	1	3	11/17/44 EDU545 LOG 31
20	100	85	73	1	1	106	136	1.5	2	1	1	56	1	3	11/17/44 EDU545 LOG 31
21	100	85	74	1	1	189	279	1.5	2	1	1	56	1	3	11/20/44 EDU545 LOG 31
22	100	85	72	1	1	105	135	NA	NA	NA	NA	54	1	3	11/21/44 EDU545 LOG 31
23	130	55	95	1	0	NA	NA	NA	NA	NA	NA	42	1	3	12/19/44 EDU545 LOG 31
28c	100	85	72	1	0	NA	NA	1.5	2	1	1	54	1	3	EDU545 LOG 31
28d	100	85	72	1	0	NA	NA	1.5	2	1	1	56	1	3	EDU545 LOG 31
28e	100	85	72	1	0	NA	NA	1.5	2	1	1	58	1	3	EDU545 LOG 31
28f	100	85	72	1	0	NA	NA	NA	NA	NA	NA	56	1	3	EDU545 LOG 31
28g	100	85	72	1	0	NA	NA	NA	NA	NA	NA	58	1	3	EDU545 LOG 31
28h	100	85	72	1	0	NA	NA	NA	NA	NA	NA	60	1	3	EDU545 LOG 31
28i	100	85	72	1	0	NA	NA	1.5	2	1	1	NA	NA	NA	EDU545 LOG 31 NO TEMP
36a	100	85	76	1	0	NA	NA	1.5	2	1	1	56	1	3	EDU545 LOG 31
36b	100	85	76	1	0	NA	NA	NA	NA	NA	NA	56	1	3	EDU545 LOG 31
37a	100	85	73	1	0	NA	NA	1.5	2	1	1	56	1	3	EDU545 LOG 31
37b	100	85	73	1	0	NA	NA	NA	NA	NA	NA	56	1	3	EDU545 LOG 31
38a	100	85	71	1	0	NA	NA	1.5	2	1	1	56	1	3	EDU545 LOG 31
38b	100	85	71	1	0	NA	NA	NA	NA	NA	NA	56	1	3	EDU545 LOG 31
39a	100	85	73	1	0	NA	NA	1.5	2	1	1	57	1	3	EDU545 LOG 31
39b	100	85	73	1	0	NA	NA	NA	NA	NA	NA	57	1	3	EDU545 LOG 31
40	100	85	74	1	0	NA	NA	NA	NA	NA	NA	57	1	3	EDU545 LOG 31
41a	100	85	73	1	0	NA	NA	1.5	2	1	1	58	1	3	EDU545 LOG 31
41b	100	85	73	1	0	NA	NA	NA	NA	NA	NA	58	1	3	EDU545 LOG 31
44	100	85	74	1	0	NA	NA	NA	NA	NA	NA	56	1	3	EDU545 LOG 31
45a	100	85	73	1	0	NA	NA	1.5	2	1	1	57	1	3	EDU545 LOG 31
45b	100	85	73	1	0	NA	NA	NA	NA	NA	NA	57	1	3	EDU545 LOG 31
46	130	55	94	2	0	NA	NA	NA	NA	NA	NA	44	1	3	EDU545 LOG 31
47a	130	55	94	2	0	NA	NA	NA	NA	NA	NA	44	1	3	EDU545 LOG 31

A-44

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
47b	130	55	94	8	0	NA	NA	NA	NA	NA	NA	46	1	3	EDU545 LOG 31
48	130	55	94	2	0	NA	NA	NA	NA	NA	NA	44	1	3	EDU545 LOG 31
49a	130	55	95	3	0	NA	NA	1.5	2	1	1	42	1	3	EDU545 LOG 31
49b	130	55	95	4	0	NA	NA	NA	NA	NA	NA	46	1	3	EDU545 LOG 31
50	130	55	94	1	0	NA	NA	NA	NA	NA	NA	44	1	3	EDU545 LOG 31
51	130	55	95	1	1	149	150	1.5	2	1	1	44	1	3	12/15/44 EDU545 LOG 32
52	130	55	94	1	0.5	148	149	1.5	2	1	1	42	1	3	12/18/44 EDU545 LOG 32
53	130	55	94	1	0.5	76	77	1.5	2	1	1	42	1	3	12/19/44 EDU545 LOG 32
54	150	38	98	1	0.5	135	136	NA	NA	NA	NA	46	1	3	3/12/45 EDU545 LOG 32
55	150	38	98	1	1	146	196	NA	NA	NA	NA	52	1	3	3/1/45 EDU545 LOG 32
56	150	38	98	1	1	135	136	1.5	2	1	1	54	1	3	3/2/45 EDU545 LOG 32
57	150	38	98	1	1	135	151	1.5	2	1	1	48	1	3	3/5/45 EDU545 LOG 32
58	150	38	98	1	1	104	105	1.5	2	1	1	48	1	3	3/5/45 EDU545 LOG 32
59	150	38	98	1	1	256	585	1.5	2	1	1	NA	NA	NA	3/5/45 EDU545 LOG 32
60	150	38	98	1	0.5	135	136	1.5	2	1	1	48	1	3	3/6/45 EDU545 LOG 32
61	170	30	88	1	0.5	238	838	NA	NA	NA	NA	56	1	3	3/19/45 EDU545 LOG 32
62	170	30	91	1	1	68	92	NA	NA	NA	NA	54	1	3	3/20/45 EDU545 LOG 32
63	170	30	88	1	1	30	65	NA	NA	NA	NA	56	1	3	3/21/45EDU545 LOG 32
64	170	30	88	1	0.5	148	265	1.5	2	1	1	56	1	3	3/21/45EDU545 LOG 32
65	170	30	88	1	0.5	30	65	1.5	2	1	1	62	1	3	3/26/45 EDU545 LOG 32
66	170	30	88	1	1	238	404	1.5	2	1	1	62	1	3	3/30/45 EDU545 LOG 32
67a	130	55	94	2	0	NA	NA	1.5	2	1	1	44	1	3	EDU545 LOG 32
67b	130	55	94	1	0	NA	NA	1.5	2	1	1	42	1	3	EDU545 LOG 32
68	130	55	95	1	0	NA	NA	1.5	2	1	1	44	1	3	EDU545 LOG 32
70a	130	55	94	2	0	NA	NA	1.5	2	1	1	43	1	3	EDU545 LOG 32
70b	130	55	94	2	0	NA	NA	1.5	2	1	1	NA	NA	NA	EDU545 LOG 32 NO TEMP
71	130	55	94	3	0	NA	NA	1.5	2	1	1	NA	NA	NA	EDU545 LOG 32 NO TEMP
72	130	55	96	2	0	NA	NA	1.5	2	1	1	43	1	3	EDU545 LOG 32
73a	150	38	98	1	0	NA	NA	1.5	2	1	1	54	1	3	EDU545 LOG 32
73b	150	38	98	1	0	NA	NA	1.5	2	1	1	52	1	3	EDU545 LOG 32
73c	150	38	98	2	0	NA	NA	1.5	2	1	1	50	1	3	EDU545 LOG 32
73d	150	38	98	6	0	NA	NA	1.5	2	1	1	NA	NA	NA	EDU545 LOG 32 NO TEMP
73e	150	38	98	2	0	NA	NA	NA	NA	NA	NA	48	1	3	EDU545 LOG 32
73f	150	38	98	2	0	NA	NA	NA	NA	NA	NA	38	1	3	EDU545 LOG 32
73g	150	38	98	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	EDU545 LOG 32 NO TEMP
74a	150	38	99	2	0	NA	NA	NA	NA	NA	NA	38	1	3	EDU545 LOG 32
74b	150	38	99	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	EDU545 LOG 32 NO TEMP
75	150	38	99	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	EDU545 LOG 32 NOTEMP

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
76a	150	38	98	2	0	NA	NA	1.5	2	1	1	58	1	3	EDU545 LOG 32
76b	150	38	98	1	0	NA	NA	1.5	2	1	1	54	1	3	EDU545 LOG 32
76c	150	38	98	1	0	NA	NA	1.5	2	1	1	48	1	3	EDU545 LOG 32
76d	150	38	98	1	0	NA	NA	NA	NA	NA	NA	47	1	3	EDU545 LOG 32
76e	150	38	98	1	0	NA	NA	NA	NA	NA	NA	47	1	3	EDU545 LOG 32
76f	150	38	98	3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	EDU545 LOG 32 NO TEMP
77	150	38	98	1	0	NA	NA	1.5	2	1	1	NA	NA	NA	EDU545 LOG 32
78a	170	30	88	1	0	NA	NA	1.5	2	1	1	62	1	3	EDU545 LOG 32
78b	170	30	88	2	0	NA	NA	NA	NA	NA	NA	47	1	3	EDU545 LOG 32
79a	170	30	88	4	0	NA	NA	1.5	2	1	1	63	1	3	EDU545 LOG 32
79b	170	30	88	4	0	NA	NA	1.5	2	1	1	60	1	3	EDU545 LOG 32
79c	170	30	88	1	0	NA	NA	1.5	2	1	1	56	1	3	EDU545 LOG 32
79d	170	30	88	3	0	NA	NA	NA	NA	NA	NA	56	1	3	EDU545 LOG 32
79e	170	30	88	2	0	NA	NA	NA	NA	NA	NA	52	1	3	EDU545 LOG 32
79f	170	30	88	2	0	NA	NA	NA	NA	NA	NA	47	1	3	EDU545 LOG 32
80	170	30	89	2	0	NA	NA	NA	NA	NA	NA	54	1	3	EDU545 LOG 32
82a	170	30	88	2	0	NA	NA	1.5	2	1	1	62	1	3	EDU545 LOG 32
82b	170	30	88	1	0	NA	NA	NA	NA	NA	NA	56	1	3	EDU545 LOG 32
83	170	30	90	2	0	NA	NA	NA	NA	NA	NA	56	1	3	EDU545 LOG 32
84	170	30	91	1	0	NA	NA	NA	NA	NA	NA	54	1	3	EDU545 LOG 32
85	100	85	71	1	0	NA	NA	NA	NA	NA	NA	56	1	3	EDU545 LOG 31
87	100	85	72	2	0	NA	NA	NA	NA	NA	NA	54	1	3	NA
88	100	85	71	1	0	NA	NA	1.5	2	1	1	56	1	3	NA
89	100	85	71	1	0	NA	NA	NA	NA	NA	NA	56	1	3	NA
90	100	85	73	1	0	NA	NA	NA	NA	NA	NA	58	1	3	EDU545 LOG 31
91	100	85	73	1	0	NA	NA	1.5	2	1	1	58	1	3	EDU545 LOG 31
92	100	85	73	1	0	NA	NA	1.5	2	1	1	58	1	3	EDU545 LOG 31
93	130	55	94	1	0	NA	NA	NA	NA	NA	NA	42	1	3	EDU545 LOG 31
94	130	55	95	2	0	NA	NA	NA	NA	NA	NA	44	1	3	EDU545 LOG 32
95	150	38	98	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	EDU545 LOG 32 NO TEMP
96	150	38	98	1	0.5	135	136	NA	NA	NA	NA	NA	NA	NA	2/26/45 EDU545 LOG 32 NO TEMP
97	150	38	98	1	0.5	135	136	NA	NA	NA	NA	NA	NA	NA	2/26/45 EDU545 LOG 32 NO TEMP
98	150	38	98	1	1	256	316	NA	NA	NA	NA	NA	NA	NA	2/21/45 EDU545 LOG 32 NO TEMP
99	150	38	98	1	1	76	136	NA	NA	NA	NA	NA	NA	NA	2/21/45 EDU545 LOG 32 NO TEMP
100	150	38	98	1	1	146	170	NA	NA	NA	NA	NA	NA	NA	2/22/45 EDU545 LOG 32 NO TEMP
101	150	38	98	1	0.5	146	196	NA	NA	NA	NA	47	1	3	2/22/45 EDU545 LOG 32

EDU545SUR (dry)

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	100	85	75	1	1	190	298	0.8	1	0	1	NA	NA	NA	10/17/44 EDU545 LOG 31
2	100	85	73	1	1	168	183	0.8	1	0	1	NA	NA	NA	10/23/44 EDU545 LOG 31
3	100	85	72	1	1	187	307	0.8	1	0	1	NA	NA	NA	10/24/44 EDU545 LOG 31
4	100	85	72	1	0.5	156	157	NA	NA	NA	NA	NA	NA	NA	10/24/44 EDU545 LOG 31
5	100	85	72	1	1	167	196	NA	NA	NA	NA	NA	NA	NA	10/25/44 EDU545 LOG 31
6	100	85	72	1	1	156	172	0.8	1	0	1	NA	NA	NA	10/30/44 EDU545 LOG 31
7	100	85	72	1	1	277	450	NA	NA	NA	NA	NA	NA	NA	10/30/44 EDU545 LOG 31
8	100	85	72	1	1	99	106	0.8	1	0	1	NA	NA	NA	10/31/44 EDU545 LOG 31
9	100	85	72	1	1	277	523	0.8	1	0	1	NA	NA	NA	11/1/44 EDU545 LOG 31
10	100	85	72	1	1	277	546	NA	NA	NA	NA	NA	NA	NA	11/1/44 EDU545 LOG 31
11	100	85	72	1	0.5	167	187	0.8	1	0	1	NA	NA	NA	11/3/44 EDU545 LOG 31
12	100	85	72	1	1	156	175	NA	NA	NA	NA	NA	NA	NA	11/27/44 EDU545 LOG 31
24	100	85	75	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	EDU545 LOG 31
25a	100	85	72	1	0	NA	NA	0.8	1	0	1	NA	NA	NA	EDU545 LOG 31
25b	100	85	72	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	EDU545 LOG 31
26	100	85	73	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	EDU545 LOG 31
27a	100	85	72	5	0	NA	NA	0.8	1	0	1	NA	NA	NA	EDU545 LOG 31
27b	100	85	72	4	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	EDU545 LOG 31
28a	100	85	72	2	0	NA	NA	0.8	1	0	1	NA	NA	NA	EDU545 LOG 31
28b	100	85	72	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	EDU545 LOG 31
29a	100	85	72	3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	EDU545 LOG 31
29b	100	85	72	3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	EDU545 LOG 31
31a	100	85	72	1	0	NA	NA	0.8	1	0	1	NA	NA	NA	EDU545 LOG 31
31b	100	85	72	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	EDU545 LOG 31
32a	100	85	74	1	0	NA	NA	0.8	1	0	1	NA	NA	NA	EDU545 LOG 31
32b	100	85	74	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	EDU545 LOG 31
33a	100	85	72	1	0	NA	NA	0.8	1	0	1	NA	NA	NA	EDU545 LOG 31
33b	100	85	72	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	EDU545 LOG 31
86	100	85	72	1	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	EDU545 LOG 31

SURFACE DECOMPRESSION (OXYGEN)

DC8ASUR (wet)

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	59.1	30	32.3	1	0	NA	NA	1.6	1	1	1	14.9	2	3	DR0162A
2	60	30	39.5	2	0	NA	NA	1.6	1	1	1	14.9	2	3	DR0163A
3	59.1	30	39.8	1	0	NA	NA	1.6	1	1	1	14.9	2	3	DR0164A
4	59.1	30.1	35.7	2	0	NA	NA	1.6	1	1	1	14.9	2	3	DR0165A
5	88.6	60	40	1	0	NA	NA	1.6	1	1	1	14.9	2	3	DR0166A
6	118.1	32	53.3	1	0	NA	NA	1.6	1	1	1	14.9	2	3	DR0167A
7	88.6	60	36.9	1	0	NA	NA	1.2	1	1	1	14.9	2	3	DR0168A
8	118.1	50	52.9	1	0	NA	NA	1.2	1	1	1	14.9	2	3	DR0173A
9	147.6	40	62.1	1	1	132	230	1.2	1	1	1	14.9	2	3	DR0174A
10	177.2	30	65.5	1	0	NA	NA	1.6	1	1	1	14.9	2	3	DR0175A
11	98.4	60	46.1	1	0	NA	NA	1.2	1	1	1	14.9	2	3	DR0177A
12	177.2	30	65.5	1	0	NA	NA	1.6	1	1	1	14.9	2	3	DR0178A
13	88.6	60	36.7	1	0	NA	NA	1.2	1	1	1	14.9	2	3	DR0179A
14	118.1	50	51.3	1	0	NA	NA	1.2	1	1	1	14.9	2	3	DR0180A
15	98.4	60	39.3	1	0	NA	NA	1.2	1	1	1	14.9	2	3	DR0181A
16	147.6	40	62.5	1	0	NA	NA	1.2	1	1	1	14.9	2	3	DR0183A
17	118.1	50	52.2	1	0	NA	NA	1.2	1	1	1	14.9	2	3	DR0191A
18	88.6	60	36.8	1	0	NA	NA	1.2	1	1	1	14.9	2	3	DR0194A
19	88.6	60	41.5	2	0	NA	NA	1.2	1	1	1	14.9	2	3	DR0227A
20	118.1	50	54.8	1	0	NA	NA	1	0	1	0	9	2	3	DR0228A
21	177.2	30.1	71.1	1	0	NA	NA	1.2	0	1	0	9	2	3	DR0229A
22	147.6	40	63.7	2	0	NA	NA	1	0	1	0	9	2	3	DR0230A
23	118.1	50	55.1	2	0	NA	NA	1	0	1	0	9	2	3	DR0231A
24	88.6	60	39.1	2	0	NA	NA	1	0	1	0	9	2	3	DR0232A
25	147.6	40	63.2	1	1	53.6	59.6	1	0	1	0	9	2	3	DR0234A
26	147.6	40	63.2	1	0	NA	NA	1	0	1	0	9	2	3	DR0234A
27	118.1	50	50.4	2	0	NA	NA	1	0	1	0	9	2	3	DR0245A
28	88.6	60	153	2	0	NA	NA	1	0	1	0	9	2	3	DR0246A
29	177.2	30	69.5	1	0	NA	NA	1.2	0	1	0	9	2	3	DR0247A
30	147.6	40	67	2	0	NA	NA	1	0	1	0	9	2	3	DR0248A
31	118.1	50	55.3	2	0	NA	NA	1	0	1	0	9	2	3	DR0249A
32	88.6	60	39.5	2	0	NA	NA	1	0	1	0	9	2	3	DR0250A
33	177.2	30	69.1	1	0	NA	NA	1.2	0	1	0	9	2	3	DR0251A
34	147.6	40	67	2	0	NA	NA	1	0	1	0	9	2	3	DR0252A

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
35	177.2	45	123.7	2	0	NA	NA	1	0	1	0	10	2	3	DR0288A
36	118.1	60	75	2	0	NA	NA	1	0	1	0	10	2	3	DR0289A
37	147.6	67.5	141.5	2	0	NA	NA	0.9	0	1	0	10	2	3	DR0290A
38	118.1	60	73.5	2	0	NA	NA	1	0	1	0	10	2	3	DR0291A
39	177.2	45	121.5	1	1	164	186.5	1	0	1	0	10	2	3	DR0292A
40	177.2	45	121.5	1	0	NA	NA	1	0	1	0	10	2	3	DR0292A
41	206.7	30	97.9	2	0	NA	NA	1.2	0	1	0	10	2	3	DR0293A
42	147.6	67	142.3	2	0	NA	NA	0.9	0	1	0	10	2	3	DR0294A
43	206.7	30	93.2	2	0	NA	NA	1.2	0	1	0	10	2	3	DR0295A
44	236.2	40	175.9	1	1	91.6	97.6	1	0	1	0	10	2	3	DR0296A
45	236.2	40	175.9	1	0	NA	NA	1	0	1	0	10	2	3	DR0296A
46	236.2	40	162	2	0	NA	NA	1	0	1	0	10	2	3	DR0297A
47	118.1	50	67.4	2	0	NA	NA	1	0	1	0	10	2	3	DR0319A
48	177.2	30	81	2	0	NA	NA	1.2	0	1	0	10	2	3	DR0320A
49	206.7	30	92.1	2	0	NA	NA	1.2	0	1	0	10	2	3	DR0323A
50	206.7	30	90.5	2	0	NA	NA	1.2	0	1	0	10	2	3	DR0324A
51	236.2	40	200.5	2	0	NA	NA	1	0	1	0	10	2	3	DR0325A
52	236.2	40	198.7	2	0	NA	NA	1	0	1	0	10	2	3	DR0326A
53	118.1	50	67.9	1	1	127	147	1	0	1	0	10	2	3	DR0339A
54	118.1	50	67.9	1	0	NA	NA	1	0	1	0	10	2	3	DR0339A
55	118.1	50	67.5	2	0	NA	NA	1	0	1	0	10	2	3	DR0344A
56	177.2	30	80.6	2	0	NA	NA	1.2	0	1	0	10	2	3	DR0348A
57	206.7	32.8	85.8	2	0	NA	NA	1	0	1	0	10	2	3	DR0349A
58	236.2	40	204.8	2	0	NA	NA	1	0	1	0	10	2	3	DR0350A
59	177.2	30	79.4	2	0	NA	NA	1.2	0	1	0	10	2	3	DR0351A
60	88.6	60	42.2	2	0	NA	NA	1	0	1	0	10	2	3	DR0353A
61	147.6	40	78.5	2	0	NA	NA	1	0	1	0	10	2	3	DR0354A
62	177.2	45	82.1	2	0	NA	NA	1	0	1	0	10	2	3	DR0359A
63	88.6	60	42.4	2	0	NA	NA	1	0	1	0	10	2	3	DR0360A

A-49

[illegible]

A-50

[illegible]

DCSUREP (wet)

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	147.6	221	46.1	2	0	NA	NA	1.2	0	1	0	9	2	3	DR0283R
2	147.6	220	47.5	2	0	NA	NA	1.2	0	1	0	10	2	3	DR0287R
3	147.6	208	34	1	0	NA	NA	1.2	0	1	0	10	2	3	DR0322R
4	147.6	209	34.2	2	0	NA	NA	1.2	0	1	0	10	2	3	DR0328R
5	147.6	208	35.2	2	0	NA	NA	1.2	0	1	0	10	2	3	DR0330R
6	147.6	227	59.3	2	0	NA	NA	1.2	0	1	0	10	2	3	DR0332R
7	147.6	230	60.7	2	0	NA	NA	1.2	0	1	0	10	2	3	DR0334R
8	177.2	30	291.9	2	0	NA	NA	1.2	0	1	0	10	2	3	DR0358R
9	177.2	30	290.3	1	1	49	54.6	1.2	0	1	0	10	2	3	DR0362R
10	177.2	30	290.3	1	0	NA	NA	1.2	0	1	0	10	2	3	DR0362R

DCSUREP (dry)

Prof. ID	Max Depth	BT	Asc. Time	Num. Dvrs	DCS	T1	T2	VO2	Work Type	Wet	Post.	temp	F/C	Dress	Data set notations
1	147.6	221	46.1	6	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0283R
2	147.6	220	47.5	8	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0287R
3	147.6	208	34	2	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0322R
4	147.6	209	34.2	3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0328R
5	147.6	208	35.2	4	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0330R
6	147.6	227	59.3	3	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0332R
7	147.6	230	60.7	4	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0334R
8	177.2	30	291.9	11	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0358R
10	177.2	30	290.3	11	0	NA	NA	NA	NA	NA	NA	NA	NA	NA	DR0362R