Eventlabel	JUB2010_sel_a_m_03		
Campaign	King George Island 2010		
Species	Southern elephant seal (Mirounga leonina)		
Age	Adult; >6 years		
Sex	Male		
Number			
Length	381 cm		
Girth			
Weight	2000		
[estimated]	1050 hr		
Weight [calculated]	1950 kg http://doi.pangaea.de/10.1594/PANGAEA.737046		
Weight	Intp://doi.pangaca.dc/10.15/4/FANGALA.757040		
[measured]			
ARGOS PTT ID	96498		
Transmitter type	SMRU/Series 9000 SRDL/CTD		
Manufacturer	SMRU		
PTT Serial Number	11288		
PTT Software	Software specification for CTD_GEN_07B deployment (MEOP: Temp+Salinity share 2 tx)		
Setting protocol	Transmitting via ARGOS		
	Page transmission sequences:		
	Until day 1464: 0 0 1 0 0 2 3 0 0 4 5 using 1 PTT numbers		
	Satellite availability (UTC): 00: on		
	01: on		
	02: on 03: on		
	04: on		
	05: on 06: on		
	07: on		
	08: on 09: on		
	10: on		
	11: on 12: on		
	13: on		
	14: on		
	15: on 16: on		
	17: on		
	18: on 19: on		
	20: on		
	21: on 22: on		
	22: 01 23: 0n		
	Transmission targets:		
	56000 transmissions after 365 days		
	In Haulouts: ON (one tx every 1 min 20 secs) for first 5 hours then cycling OFF for 6 hours, ON for 1 hour		

Check sensors every 4 secs When near surface (shallower than 10m), check wet/dry every 1 sec Consider wet/dry sensor failed if wet for 7 days or dry for 99 days Dives start when wet and below 6m for 8 secs and end when above 6m for 0, or dry at any time No separation of 'Deep' dives A cruise begins if there has been no dive for 9 mins A haulout begins when dry for 10 mins and ends when wet for 40 secs
Dive shape (normal dives): 4 points per dive using broken-stick algorithm
Dive shape (deep dives): none
CTD upcasts: max 2000 dbar up to 6 dbar in 2 dbar bins. 17 cut points per profile Send the deepest 1 upcasts in each 6-hour period. Minimum depth to trigger collection of cast: 1000m in hour 1 600m in hour 2 300m in hour 3 100m in hour 4 50m in hour 5 25m in hour 6 or 20% greater than current maximum.
Sample CTD sensor every 1 seconds. Temperature: Collected, Stored. Valid range: -2.5 to 30.2
degC Conductivity: Collected, Not stored. Salinity: Calculated, Stored. Valid range: 28.9 to 37.1
No GPS data
TRANSMISSION BUFFERS (in RAM): Dive in groups of 3 (6.25 days @ 10mins/dive): 300 = 1200 bytes No 'deep' dives Haulout: 30 = 120 bytes 6-hour summaries in groups of 3 (7.5 days): 10 = 40 bytes No berniegrams No timelines Cruise: 30 = 120 bytes No diving periods No spot depths No emergence records No Duration histograms No Max depth histograms CTD casts (7.5 days): 30 = 120 bytes No GPS fixes TOTAL 1600 bytes (of about 21000 available)
MAIN BUFFERS (in 6.2 Mb Flash): Dive in groups of 3 (416.667 days @ 10mins/dive): 20000 x 100 bytes = 200000 bytes No 'deep' dives Haulout: 3000 x 16 bytes = 48000 bytes 6-hour summaries in groups of 3 (450 days): 600 x 68 bytes = 40800 bytes No berniegrams No timelines Cruise: 3000 x 16 bytes = 48000 bytes No diving periods No spot depths No emergence records No Duration histograms No Max depth histograms

CTD casts (500 days): 2000 x 164 bytes = 328000 bytes No GPS fixes		
TOTAL 2407 kb (from 6333 kb available)		
PAGE CONTENTS (256 bits - 9 overhead):		
PAGE 0: PTT NUMBER OVERHEAD (28-bit code) [8 bits: 0 - 7]		
PAGE NUMBER [3 bits: 8 - 10]		
DIAGNOSTICS in format 0:		
TX number: wraparound 11 bits in units of 32 (range: 0 to		
65504) [11 bits: 11 - 21]		
DIVE group in format 0: Normal dives transmitted in groups of 3 Time of start of last dive: max 5 days 12 hours @ 30 secs=		
15840 tx as raw 14 bits in units of 1 (range: 0 to 16383		
) (recommended sell-by 5 days 11 hours) Sell-by range: 5 days		
Number of records: raw 2 bits in units of 1 (range: 0 to 3) Reason for end: not transmitted		
Group number: wraparound 8 bits in units of 1 (range: 0 to 255) Max depth: not transmitted Dive duration: odlog 1/6 in units of 30 s (range: 0 to 5715		
s) Mean speed: not transmitted Profile data (4 depths/times, 0 speeds): Depth profile: odlog 2/6 in units of 25 dm		
(range: 0 to 23887.5 dm) Profile times: raw 5 bits in units of 32.2581		
permille (range: 0 to 1000 permille) Speed profile: not transmitted Residual: raw 2 bits in units of 60 (range: 0 to		
180) Calculation time: not transmitted		
Surface duration: odlog 2/4 in units of 2.5 s (range: 0 to 588.75 s)		
cf. cruise starts after 9 mins (540 secs) Dive area: not transmitted [225 bits: 22 - 246]		
Available bits used exactly === End of page 0 ===		
PAGE 1: PTT NUMBER OVERHEAD (28-bit code) [8 bits: 0 - 7]		
PAGE NUMBER [3 bits: 8 - 10]		
DIAGNOSTICS in format 1:		
Max depth ever: odlog 1/4 in units of 500 dm (range: 0 to 23250 dm)		
[5 bits: 11 - 15]		

CRU	ISE group in format 0:
Nur Cru	nber of records: raw 1 bits in units of 1 (range: 0 to 1) ise number: wraparound 4 bits in units of 1 (range: 0 to
15)	
	rt time: not transmitted
Enc	time: max 5 days 12 hours @ 2 mins= 3960
	tx as raw 12 bits in units of 1 (range: 0 to 4095)
Call	(recommended sell-by 5 days 11 hours)
	-by range: 5 days 4 hours
Dur	ation: raw 9 bits in units of 120 s (range: 0 to 61320 s)
Spe	cf. Max duration is 16 hours ed: not transmitted
	son for end: not transmitted
	[26 bits: 16 - 41]
HAU	LOUT in format 0:
	nber of records: raw 1 bits in units of 1 (range: 0 to 1)
	lout number: wraparound 3 bits in units of 1 (range: 0
to 7)	
Sta	rt time: not transmitted
Enc	time: max 5 days 12 hours @ 2 mins= 3960
	tx as raw 12 bits in units of 1 (range: 0 to 4095)
	(recommended sell-by 5 days 11 hours)
	-by range: 5 days 4 hours
Dur	ation: raw 9 bits in units of 120 s (range: 0 to 61320 s)
	cf. Max duration is 16 hours
	son for end: not transmitted
	itiguous: not transmitted
	[25 bits: 42 - 66]
SUM	MARY group in format 0:
	ismitted in groups of 3
	ord could be in buffer for 7 days 12 hours
	time: max 7 days @ 6 hours= 28
	tx as raw 5 bits in units of 1 (range: 0 to 31)
	(recommended sell-by 6 days 17 hours)
	-by range: 7 days
	nber of records: raw 1 bits in units of 1 (range: 0 to 1)
	ising time: not transmitted
0 to 1000 perm	المالة llout time: raw 6 bits in units of 15.873 permille (range:
•	e time: raw 6 bits in units of 15.873 permille (range: 0
to 1000 permill	
Dee	p Dive time: not transmitted
Norr	nal dives:
(rongo: 0 to 00	Avg max dive depth: odlog 2/6 in units of 25 dm
(range: 0 to 23	SD max dive depth: odlog 2/4 in units of 50 dm
(range: 0 to 11	
	Max max dive depth: odlog 2/6 in units of 25 dm
(range: 0 to 23	
(rongo: 0 to 57	Avg dive duration: odlog 1/6 in units of 30 s
(range: 0 to 57	SD dive duration: odlog 1/4 in units of 60 s
(range: 0 to 27	
	Max dive duration: odlog 1/6 in units of 30 s
(range: 0 to 57	
	Avg speed in dive: not transmitted
0 to 02	Number of dives: odlog 1/4 in units of 2 (range:
0 to 93) Deel	o dives:
Dee	Avg max dive depth: not transmitted
	SD max dive depth: not transmitted
	Max max dive depth: not transmitted
	Avg dive duration: not transmitted
	SD dive duration: not transmitted
	Max dive duration: not transmitted
	Avg speed in dive: not transmitted
	Number of dives: not transmitted
Avg	SST: not transmitted
	[180 bits: 67 - 246]

Available bits used exactly === End of page 1 ===
PAGE 2: PTT NUMBER OVERHEAD (28-bit code) [8 bits: 0 - 7]
PAGE NUMBER [3 bits: 8 - 10]
CTD in format 0:
End time: max 7 days @ 10 mins= 1008 tx as raw 10 bits in units of 1 (range: 0 to 1023) (recommended sell-by 6 days 23 hours) Sell-by range: 6 days 18 hours CTD cast number: not transmitted Min pressure: not transmitted Max pressure: raw 10 bits in units of 2 dbar (range: 6 to
2052 dbar) Min temperature: raw 15 bits in units of 1 (range: 2500 to
35267 = -2.5 to 30.267 °C in steps of 0.001 °C) Max temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) cf. Valid temperatures: -2.5 to 30.2 degC
Min salinity: raw 12 bits in units of 2 mPSU (range: 28900 to 37090 mPSU) Max salinity: raw 12 bits in units of 2 mPSU (range: 28900
to 37090 mPSU) cf. Valid salinity: 28.9 to 37.1 Number of samples: not transmitted 9 profile points 0 to 8 (from total of 17 cut points): First 8 pressures are fixed Min pressure is fixed
Temperature: raw 10 bits in units of 0.977517 permille (range: 0 to 1000 permille) Temperature residual: not transmitted Salinity: raw 8 bits in units of 3.92157 permille
(range: 0 to 1000 permille) Salinity residual: not transmitted Temperature bounds : not transmitted Conductivity bounds : not transmitted Salinity bounds : not transmitted [236 bits: 11 - 246]
Available bits used exactly === End of page 2 ===
PAGE 3: PTT NUMBER OVERHEAD (28-bit code) [8 bits: 0 - 7]
PAGE NUMBER [3 bits: 8 - 10]
CTD in format 1:
End time: max 7 days @ 10 mins= 1008 tx as raw 10 bits in units of 1 (range: 0 to 1023) (recommended sell-by 6 days 23 hours) Sell-by range: 6 days 18 hours CTD cast number: not transmitted Min pressure: not transmitted Max procesure: not transmitted
Max pressure: not transmitted Min temperature: not transmitted Max temperature: not transmitted cf. Valid temperatures: -2.5 to 30.2 degC Min salinity: not transmitted

Max salinity: not transmitted
cf. Valid salinity: 28.9 to 37.1
Number of samples: not transmitted
8 profile points 9 to 16 (from total of 17 cut points):
Max pressure is sent separately
7 pressure bins: raw 9 bits in units of 1 bin
(range: 0 to 511 bin)
Temperature: raw 10 bits in units of 0.977517
permille (range: 0 to 1000 permille)
Temperature residual: raw 7 bits in units of 1 mdegC per
sample (range: 0 to 127 mdegC per sample)
Pressure already sent
Salinity: raw 8 bits in units of 3.92157 permille
(range: 0 to 1000 permille)
Salinity residual: raw 7 bits in units of 1 mPSU per sample
(range: 0 to 127 mPSU per sample)
Temperature bounds : raw 2 bits in units of 1 lo/hi (range:
0 to 3 lo/hi)
Conductivity bounds : not transmitted
Salinity bounds : raw 2 bits in units of 1 lo/hi (range: 0 to 3
lo/hi)
[235 bits: 11 - 245]
UNUSED
[1 bits: 246 - 246]
=== End of page 3 ===
PAGE 4:
PTT NUMBER OVERHEAD (28-bit code)
[8 bits: 0 - 7]
PAGE NUMBER
[3 bits: 8 - 10]
CTD in format 2:
CTD in format 2:
CTD in format 2: End time: max 3 days 6 hours @ 10 mins= 468
End time: max 3 days 6 hours @ 10 mins= 468 tx as raw 9 bits in units of 1 (range: 0 to 511) (recommended sell-by 3 days 5 hours)
End time: max 3 days 6 hours @ 10 mins= 468 tx as raw 9 bits in units of 1 (range: 0 to 511) (recommended sell-by 3 days 5 hours) Sell-by range: 3 days
End time: max 3 days 6 hours @ 10 mins= 468 tx as raw 9 bits in units of 1 (range: 0 to 511) (recommended sell-by 3 days 5 hours) Sell-by range: 3 days CTD cast number: not transmitted
End time: max 3 days 6 hours @ 10 mins= 468 tx as raw 9 bits in units of 1 (range: 0 to 511) (recommended sell-by 3 days 5 hours) Sell-by range: 3 days CTD cast number: not transmitted Min pressure: not transmitted
End time: max 3 days 6 hours @ 10 mins= 468 tx as raw 9 bits in units of 1 (range: 0 to 511) (recommended sell-by 3 days 5 hours) Sell-by range: 3 days CTD cast number: not transmitted Min pressure: not transmitted Max pressure: raw 10 bits in units of 2 dbar (range: 6 to
End time: max 3 days 6 hours @ 10 mins= 468 tx as raw 9 bits in units of 1 (range: 0 to 511) (recommended sell-by 3 days 5 hours) Sell-by range: 3 days CTD cast number: not transmitted Min pressure: not transmitted Max pressure: raw 10 bits in units of 2 dbar (range: 6 to 2052 dbar)
End time: max 3 days 6 hours @ 10 mins= 468 tx as raw 9 bits in units of 1 (range: 0 to 511) (recommended sell-by 3 days 5 hours) Sell-by range: 3 days CTD cast number: not transmitted Min pressure: not transmitted Max pressure: raw 10 bits in units of 2 dbar (range: 6 to 2052 dbar) Min temperature: raw 15 bits in units of 1 (range: 2500 to
End time: max 3 days 6 hours @ 10 mins= 468 tx as raw 9 bits in units of 1 (range: 0 to 511) (recommended sell-by 3 days 5 hours) Sell-by range: 3 days CTD cast number: not transmitted Min pressure: not transmitted Max pressure: raw 10 bits in units of 2 dbar (range: 6 to 2052 dbar) Min temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C)
End time: max 3 days 6 hours @ 10 mins= 468 tx as raw 9 bits in units of 1 (range: 0 to 511) (recommended sell-by 3 days 5 hours) Sell-by range: 3 days CTD cast number: not transmitted Min pressure: not transmitted Max pressure: raw 10 bits in units of 2 dbar (range: 6 to 2052 dbar) Min temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) Max temperature: raw 15 bits in units of 1 (range: 2500 to
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End time: max 3 days 6 hours @ 10 mins= 468 tx as raw 9 bits in units of 1 (range: 0 to 511) (recommended sell-by 3 days 5 hours) Sell-by range: 3 days CTD cast number: not transmitted Min pressure: not transmitted Max pressure: raw 10 bits in units of 2 dbar (range: 6 to 2052 dbar) Min temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) Max temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) cf. Valid temperatures: -2.5 to 30.2 degC
End time: max 3 days 6 hours @ 10 mins= 468 tx as raw 9 bits in units of 1 (range: 0 to 511) (recommended sell-by 3 days 5 hours) Sell-by range: 3 days CTD cast number: not transmitted Min pressure: not transmitted Max pressure: raw 10 bits in units of 2 dbar (range: 6 to 2052 dbar) Min temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) Max temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) cf. Valid temperatures: -2.5 to 30.2 degC Min salinity: raw 12 bits in units of 2 mPSU (range: 28900
End time: max 3 days 6 hours @ 10 mins= 468 tx as raw 9 bits in units of 1 (range: 0 to 511) (recommended sell-by 3 days 5 hours) Sell-by range: 3 days CTD cast number: not transmitted Min pressure: not transmitted Max pressure: raw 10 bits in units of 2 dbar (range: 6 to 2052 dbar) Min temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) Max temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) Cf. Valid temperatures: -2.5 to 30.2 degC Min salinity: raw 12 bits in units of 2 mPSU (range: 28900 to 37090 mPSU)
End time: max 3 days 6 hours @ 10 mins= 468 tx as raw 9 bits in units of 1 (range: 0 to 511) (recommended sell-by 3 days 5 hours) Sell-by range: 3 days CTD cast number: not transmitted Min pressure: not transmitted Max pressure: raw 10 bits in units of 2 dbar (range: 6 to 2052 dbar) Min temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) Max temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) C. Valid temperatures: -2.5 to 30.2 degC Min salinity: raw 12 bits in units of 2 mPSU (range: 28900 to 37090 mPSU) Max salinity: raw 12 bits in units of 2 mPSU (range: 28900
End time: max 3 days 6 hours @ 10 mins= 468 tx as raw 9 bits in units of 1 (range: 0 to 511) (recommended sell-by 3 days 5 hours) Sell-by range: 3 days CTD cast number: not transmitted Min pressure: not transmitted Max pressure: raw 10 bits in units of 2 dbar (range: 6 to 2052 dbar) Min temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) Max temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) Cf. Valid temperatures: -2.5 to 30.2 degC Min salinity: raw 12 bits in units of 2 mPSU (range: 28900 to 37090 mPSU) Max salinity: raw 12 bits in units of 2 mPSU (range: 28900 to 37090 mPSU)
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End time: max 3 days 6 hours @ 10 mins= 468 tx as raw 9 bits in units of 1 (range: 0 to 511) (recommended sell-by 3 days 5 hours) Sell-by range: 3 days CTD cast number: not transmitted Min pressure: not transmitted Max pressure: raw 10 bits in units of 2 dbar (range: 6 to 2052 dbar) Min temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) Max temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) Cf. Valid temperatures: -2.5 to 30.2 degC Min salinity: raw 12 bits in units of 2 mPSU (range: 28900 to 37090 mPSU) Cf. Valid salinity: 28.9 to 37.1 Number of samples: not transmitted 9 profile points 0 to 8 (from total of 17 cut points): First 8 pressures are fixed
End time: max 3 days 6 hours @ 10 mins= 468 tx as raw 9 bits in units of 1 (range: 0 to 511) (recommended sell-by 3 days 5 hours) Sell-by range: 3 days CTD cast number: not transmitted Min pressure: not transmitted Max pressure: raw 10 bits in units of 2 dbar (range: 6 to 2052 dbar) Min temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) Max temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) Cf. Valid temperatures: -2.5 to 30.2 degC Min salinity: raw 12 bits in units of 2 mPSU (range: 28900 to 37090 mPSU) Cf. Valid salinity: 28.9 to 37.1 Number of samples: not transmitted 9 profile points 0 to 8 (from total of 17 cut points): First 8 pressures are fixed Min pressure is fixed
End time: max 3 days 6 hours @ 10 mins= 468 tx as raw 9 bits in units of 1 (range: 0 to 511) (recommended sell-by 3 days 5 hours) Sell-by range: 3 days CTD cast number: not transmitted Min pressure: not transmitted Max pressure: raw 10 bits in units of 2 dbar (range: 6 to 2052 dbar) Min temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) Max temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) Max temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) cf. Valid temperatures: -2.5 to 30.2 degC Min salinity: raw 12 bits in units of 2 mPSU (range: 28900 to 37090 mPSU) Max salinity: raw 12 bits in units of 2 mPSU (range: 28900 to 37090 mPSU) cf. Valid salinity: 28.9 to 37.1 Number of samples: not transmitted 9 profile points 0 to 8 (from total of 17 cut points): First 8 pressures are fixed Min pressure is fixed Temperature: raw 10 bits in units of 0.977517
End time: max 3 days 6 hours @ 10 mins= 468 tx as raw 9 bits in units of 1 (range: 0 to 511) (recommended sell-by 3 days 5 hours) Sell-by range: 3 days CTD cast number: not transmitted Min pressure: not transmitted Max pressure: raw 10 bits in units of 2 dbar (range: 6 to 2052 dbar) Min temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) Max temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) Cf. Valid temperatures: -2.5 to 30.2 degC Min salinity: raw 12 bits in units of 2 mPSU (range: 28900 to 37090 mPSU) Max salinity: raw 12 bits in units of 2 mPSU (range: 28900 to 37090 mPSU) Cf. Valid salinity: 28.9 to 37.1 Number of samples: not transmitted 9 profile points 0 to 8 (from total of 17 cut points): First 8 pressures are fixed Min pressure is fixed Temperature: raw 10 bits in units of 0.977517 permille (range: 0 to 1000 permille)
End time: max 3 days 6 hours @ 10 mins= 468 tx as raw 9 bits in units of 1 (range: 0 to 511) (recommended sell-by 3 days 5 hours) Sell-by range: 3 days CTD cast number: not transmitted Min pressure: not transmitted Max pressure: raw 10 bits in units of 2 dbar (range: 6 to 2052 dbar) Min temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) Max temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) Cf. Valid temperatures: -2.5 to 30.2 degC Min salinity: raw 12 bits in units of 2 mPSU (range: 28900 to 37090 mPSU) Max salinity: raw 12 bits in units of 2 mPSU (range: 28900 to 37090 mPSU) Cf. Valid salinity: 28.9 to 37.1 Number of samples: not transmitted 9 profile points 0 to 8 (from total of 17 cut points): First 8 pressures are fixed Min pressure is fixed Temperature: raw 10 bits in units of 0.977517 permille (range: 0 to 1000 permille) Temperature residual: not transmitted
End time: max 3 days 6 hours @ 10 mins= 468 tx as raw 9 bits in units of 1 (range: 0 to 511) (recommended sell-by 3 days 5 hours) Sell-by range: 3 days CTD cast number: not transmitted Min pressure: not transmitted Max pressure: raw 10 bits in units of 2 dbar (range: 6 to 2052 dbar) Min temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) Max temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) Cf. Valid temperatures: -2.5 to 30.2 degC Min salinity: raw 12 bits in units of 2 mPSU (range: 28900 to 37090 mPSU) Max salinity: raw 12 bits in units of 2 mPSU (range: 28900 to 37090 mPSU) Cf. Valid salinity: 28.9 to 37.1 Number of samples: not transmitted 9 profile points 0 to 8 (from total of 17 cut points): First 8 pressures are fixed Min pressure is fixed Temperature: raw 10 bits in units of 0.977517 permille (range: 0 to 1000 permille) Temperature residual: not transmitted Salinity: raw 8 bits in units of 3.92157 permille
End time: max 3 days 6 hours @ 10 mins= 468 tx as raw 9 bits in units of 1 (range: 0 to 511) (recommended sell-by 3 days 5 hours) Sell-by range: 3 days CTD cast number: not transmitted Min pressure: not transmitted Max pressure: raw 10 bits in units of 2 dbar (range: 6 to 2052 dbar) Min temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) Max temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) Max temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) cf. Valid temperatures: -2.5 to 30.2 degC Min salinity: raw 12 bits in units of 2 mPSU (range: 28900 to 37090 mPSU) Cf. Valid salinity: 28.9 to 37.1 Number of samples: not transmitted 9 profile points 0 to 8 (from total of 17 cut points): First 8 pressures are fixed Min pressure is fixed Temperature: raw 10 bits in units of 0.977517 permille (range: 0 to 1000 permille) Temperature residual: not transmitted Salinity: raw 8 bits in units of 3.92157 permille (range: 0 to 1000 permille)
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End time: max 3 days 6 hours @ 10 mins= 468 tx as raw 9 bits in units of 1 (range: 0 to 511) (recommended sell-by 3 days 5 hours) Sell-by range: 3 days CTD cast number: not transmitted Min pressure: not transmitted Max pressure: raw 10 bits in units of 2 dbar (range: 6 to 2052 dbar) Min temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) Max temperature: raw 15 bits in units of 1 (range: 2500 to 35267 = -2.5 to 30.267 °C in steps of 0.001 °C) Cf. Valid temperatures: -2.5 to 30.2 degC Min salinity: raw 12 bits in units of 2 mPSU (range: 28900 to 37090 mPSU) Max salinity: raw 12 bits in units of 2 mPSU (range: 28900 to 37090 mPSU) Cf. Valid salinity: 28.9 to 37.1 Number of samples: not transmitted 9 profile points 0 to 8 (from total of 17 cut points): First 8 pressures are fixed Min pressure is fixed Temperature: raw 10 bits in units of 0.977517 permille (range: 0 to 1000 permille) Temperature residual: not transmitted Salinity: raw 8 bits in units of 3.92157 permille (range: 0 to 1000 permille) Salinity residual: not transmitted Temperature bounds: not transmitted Salinity bounds: not transmitted
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r		
	UNUSED	
	[1 bits: 246 - 246]	
	Find of more 4	
=== En	d of page 4 ===	
PAGE 5:		
	PTT NUMBER OVERHEAD (28-bit code)	
	[8 bits: 0 - 7]	
	PAGE NUMBER	
	[3 bits: 8 - 10]	
	DIAGNOSTICS in format 2:	
	Number of resets: wraparound 2 bits in units of 1 (range: 0	
to 3)		
	[2 bits: 11 - 12]	
	CTD in format 3:	
	End time, may 2 days (hours @ 10 mins 1/0	
	End time: max 3 days 6 hours @ 10 mins= 468	
	tx as raw 9 bits in units of 1 (range: 0 to 511) (recommended sell-by 3 days 5 hours)	
	Sell-by range: 3 days	
	CTD cast number: not transmitted	
	Min pressure: not transmitted	
	Max pressure: not transmitted	
	Min temperature: not transmitted	
	Max temperature: not transmitted	
	cf. Valid temperatures: -2.5 to 30.2 degC	
	Min salinity: not transmitted	
	Max salinity: not transmitted	
	cf. Valid salinity: 28.9 to 37.1	
	Number of samples: not transmitted	
	8 profile points 9 to 16 (from total of 17 cut points):	
	Max pressure is sent separately	
(range,)	7 pressure bins: raw 9 bits in units of 1 bin	
(range: (0 to 511 bin) Temperature: raw 10 bits in units of 0.977517	
permille	(range: 0 to 1000 permille)	
	Temperature residual: raw 7 bits in units of 1 mdegC per	
sample (sample (range: 0 to 127 mdegC per sample) Pressure already sent	
	Salinity: raw 8 bits in units of 3.92157 permille	
(range: 0	0 to 1000 permille)	
	Salinity residual: raw 7 bits in units of 1 mPSU per sample	
(range: 0	0 to 127 mPSU per sample)	
	Temperature bounds : raw 2 bits in units of 1 lo/hi (range:	
0 to 3 lo.		
	Conductivity bounds : not transmitted	
lo/hi)	Salinity bounds : raw 2 bits in units of 1 lo/hi (range: 0 to 3	
10/11/	[234 bits: 13 - 246]	
	Available bits used exactly	
=== En	d of page 5 ===	
	· · · · · · · · · · · · · · · · · · ·	

Deployment			
Immobilisation	Application Induction dose Top-up dose Induction complete Follow-up dose Deployment Onset of recovery End of recovery Anesthesia level http://doi.pangaea	 16:10 16:55	
Comment	Seal tag: Deployment site: Prev. deployment:	none Refugio Elephante none	
Tag deployed		2010-03-19T15:38:00 -62.2559 -59.2286	
Tag retrieved			
First transmission	2010-03-21T16:53	:34 -62.261 -58.630	
Last transmission	2010-12-09T04:32	:26 -61.496 -44.879	