DEPLOYMENT LOG for IceCube STRING # 66

Deployment Start: *at* 9:32 am *on* Dec 23 2006

Deployment End: *at* 3:00 am *on* Dec 24, 2006

Target depth (DOM60): **2450** m Final depth: 2450

Deployment Crew

Position	First Shift	Second Shift
Shift lead		
DOM install 1 (high)		
DOM install 2 (low)		
DOM supply 1 / DOM install 3		
DOM supply 2 / floater		
Winch operator (cable & tower)		
Notary (logbook & photos)		
PTS (monitoring / sensors)	Arlos	
Support (optional)		

Time of shift change:

Summary/Comments:

KELLAR 0503999

Slope = 231.74250

int = -929.4033

Hole Handover

☐ Drill data reviewed

- ☐ maximum drift in x:_____ ☐ plot
- ☐ maximum drift in y:_____ ☐ plot
- ☐ maximum depth:_____
- ☐ minimum radius:_____ ☐ plot
- ☐ plot of predicted radius vs depth and time

☐ Hole dimensions verified Time:_____

Drill Lead: _____
name / signature / date

Deployment Lead: _____
name / signature / date

☐ Handover complete

Hole Logging
(skip if not applicable)

☐ Logger drop started Time:_____ Speed:_____
☐ Logging started Time:_____ Speed:_____
☐ Logging ended Time:_____

☐ Estimated hole lifetime:_____

► Must reach target depth by _____ on _____

Deployment Startup

Time: < 9h32

☑ Cable winch anchored and ☑ operational
☑ Tower winch operational
☐ Tie off verified
☐ Yellow rope verified

☑ Deployment monitoring system (PTS) operational ☑ DDB# 3
☑ Pressure sensors on hand: Paro and Keller, with backups
☑ Laser ranger, tape measure (metric) on hand

☑ Bleeder string installed (on quad connectors inside cable reel drum)

☑ Uphole pressure system on hand: ~~Setra sensor and cable~~ → laser measurements

☑ DOMs placed in racks
☑ Weight stack on hand: weights (5) and 2 m cable
☑ 17 m string extension steel cable on hand

Safety checks complete (☐ 1st shift ☐ 2nd shift)
☐ ☑ Crew safety briefing
☐ ☑ E-stop locations identified
☐ ☑ TOS evacuation procedures reviewed
☐ ☑ Mustering point identified
☐ ☑ Snow mobile driver(s): All
☐ ☑ CPR trained: a lot of people
☐ ☑ Food runners: NI
call galley at 65521

☑ End of Main Cable brought into TOS and secured

Cable end attachments

☑ Measure well depth: 51.058
☑ Weights (5) attached
☑ Weight cable attached (weight stack complete) Time: 10h15

cable end @ 0 m

Photos: DOM ids (☑ long ☑ short); connectors (☐ long ☐ short)

DOM position 60 DOM id: TP 4P0079

(T, Long)

↳ "special one!"

☑ Bottom shackle connected to weight stack Payout: ~~10.2~~ 0.13 as equator passes TOS flow

☑ Top shackle connected to 17 m steel cable

Photos: ☑ whole view

DOM position 59 DOM id: UP 5P0750

(U, Short) Cable mark: 2

☑ Bottom shackle connected to 17 m cable

☑ Top shackle connected to Yale grip Δ(59-60): 17.080 (use laser ranger)

☑ Main cable end taped to 17 m steel cable

Photos: ☐ phi orientation ☐ whole view

Breakout 30 Time: 11:15 AM 12/23/06

Depth:

Payout 13.28

- LongDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected
- ShortDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected

☐ Loose pigtails taped to cable

Paro Serial #: 10422 Nipple ☒ on ☐ off

☐ Connected ☒ Operational ☐ Air pressure [PSI]: 9.65

☐ Cable mark: 2.60 ☐ Distance to DOM59: 0.534

☐ All clear to lower cable ☺

Photos: DOM ids (☒ long ☐ short); connectors (☒ long ☐ short)

DOM position 58 DOM id: TP 5P0567

(T, Long) Cable mark: 19

☑ Bottom shackle connected
☑ Top clutch connected at link # 18 Δ(58-59): 16.854
☑ Bow OK → ☑ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

DOM position 57 DOM id: UP 5P0536

(U, Short) Cable mark: 36

☑ Bottom shackle connected
☑ Top clutch connected at link # ~~18~~ 20 Δ(57-58): 16.906
☑ Bow OK → ☑ clutch zip tied
Photos: ☑ phi orientation ☑ whole view

Breakout 29

Time:
Now 11:40 A
Last b/o 11:15
Δt [min] 25

Depth:
Paro 68.71
Payout 64.92

- LongDOM
  - ☑ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected
- ShortDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected

☐ Loose pigtails taped to cable

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 56 DOM id: TP AP4P0064

(T, Long) Cable mark: 53

☑ Bottom shackle connected
☐ Top clutch connected at link # 19 Δ(56-57): ~~60.9~~ 16.942
☑ Bow OK → ☐ clutch zip tied
Photos: ☑ phi orientation ☐ whole view

DOM position 55 DOM id: UP UP5P0766

(U, Short) Cable mark: 70

☑ Bottom shackle connected
☐ Top clutch connected at link # 19 Δ(55-56): 16.976
☑ Bow OK → ☑ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

Breakout 28

Time:
Now 11:57
Last b/o 11:40
Δt [min] 17

Depth:
Paro 84.30
Payout 82.—

- LongDOM
  - ☑ connector O-ring in place and ☐ lubed
  - ☑ breakout O-ring in place and ☐ lubed
  - ☑ connected
- ShortDOM
  - ☑ connector O-ring in place and ☐ lubed
  - ☑ breakout O-ring in place and ☐ lubed
  - ☑ connected

☐ Loose pigtails taped to cable

Lunch Break 11:59 ~~AM~~ AM DEC 23, 2006

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 54 DOM id: TP AP4P0059

(T, Long) Cable mark: 87

☑ Bottom shackle connected
☑ Top clutch connected at link # 19 Δ(54-55): 16.885
☑ Bow OK → ☑ clutch zip tied
Photos: ☑ phi orientation ☑ whole view

DOM position 53 DOM id: UP UP4P0354

(U, Short) Cable mark: 104

☑ Bottom shackle connected
☑ Top clutch connected at link # 20 Δ(53-54): 16.893
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

Breakout 27

Time:
Now 13:11
Last b/o lunch
Δt [min]

Depth:
Paro 118.72
Payout 116.43

- LongDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected
- ShortDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected

☑ Loose pigtails taped to cable

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 52 DOM id: TP TP5P0563

(T, Long) Cable mark: 121

☑ Bottom shackle connected
☑ Top clutch connected at link # 19 Δ(52-53): 16.921
☑ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

DOM position 51 DOM id: UP UP5P0640

(U, Short) Cable mark: 138

☑ Bottom shackle connected
☐ Top clutch connected at link # 21 Δ(51-52): 16.837
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

Breakout 26

Time:

Now 13:27
Last b/o 13:11
Δt [min] 16

Depth:
Paro 152.42
Payout 150.4

- LongDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected
- ShortDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected

☐ Loose pigtails taped to cable

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 50 DOM id: TP TP5P0873

(T, Long) Cable mark: 155

☑ Bottom shackle connected

☑ Top clutch connected at link # 19 Δ(50-51): 16.921

☐ Bow OK → ☐ clutch zip tied

Photos: ☐ phi orientation ☐ whole view

☐ Curved distance around DOM:_____ ☐ Vertical distance:_____

DOM position 49 DOM id: UP UP5P0646

(U, Short) Cable mark: 172

☑ Bottom shackle connected

☑ Top clutch connected at link # 21 Δ(49-50): 16.933

☑ Bow OK → ☑ clutch zip tied

Photos: ☐ phi orientation ☐ whole view

☐ Curved distance around DOM:_____ ☐ Vertical distance:_____

Breakout 25

Time:

Now 1340

Last b/o 13:27

Δt [min] 13

Depth:

Paro 186.54

Payout 184.92

- LongDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected
- ShortDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected

☐ Loose pigtails taped to cable

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 48 DOM id: TP TP5P0635

(T, Long) Cable mark: 190

☑ Bottom shackle connected
☐ Top clutch connected at link # 19 Δ(48-49): 16.925
☐ Bow OK → ☑ clutch zip tied
Photos: ☑ phi orientation ☑ whole view

DOM position 47 DOM id: UP UP5P0950

(U, Short) Cable mark: 206

☑ Bottom shackle connected
☐ Top clutch connected at link # 21 Δ(47-48): 16.936
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

Breakout 24

Time:
Now 13:52
Last b/o 13:40
Δt [min] 12
Depth:
Paro 220.94
Payout 219.72

- LongDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected
- ShortDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected

☐ Loose pigtails taped to cable

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 46 DOM id: TP TP5P 0883

(T, Long) Cable mark: 224

☑ Bottom shackle connected
☑ Top clutch connected at link # 19 Δ(46-47): 16.941 ~~16.941~~
☐ Bow OK → ☑ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

DOM position 45 DOM id: UP UP4P 0240

(U, Short) Cable mark: 240

☑ Bottom shackle connected
☑ Top clutch connected at link # 20 Δ(45-46): 16.908
☑ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

Breakout 23

Time:
Now 14:05
Last b/o 13:52
Δt [min] 13
Depth:
Paro 255.18
Payout 254.04

- LongDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected
- ShortDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected

☐ Loose pigtails taped to cable

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 44 DOM id: TP TP4P-0269

(T, Long) Cable mark: 258

☑ Bottom shackle connected
☐ Top clutch connected at link # 19 Δ(44-45): 16.941
☑ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

DOM position 43 DOM id: UP UP5P0932

(U, Short) Cable mark: 275

☑ Bottom shackle connected
☑ Top clutch connected at link # 20 Δ(43-44): 16.892
☑ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

Breakout 22

Time:
Now 14:16
Last b/o 14:05
Δt [min] 11

Depth:
Paro 288.6
Payout 288.34

- LongDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected
- ShortDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected

☐ Loose pigtails taped to cable

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 42 DOM id: TP TP5P 0583

(T, Long) Cable mark: 292

☑ Bottom shackle connected
☑ Top clutch connected at link # 19 Δ(42-43): 16.978
☐ Bow OK → ☑ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

DOM position 41 DOM id: UP UP5P 0966

(U, Short) Cable mark: 309

☑ Bottom shackle connected
☑ Top clutch connected at link # 21 Δ(41-42): 16.869
☑ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

Breakout 21

Time:
Now 14:28
Last b/o 14:16
Δt [min] 12

Depth:
Paro 322.99
Payout 322.73

real = 323

- LongDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected
- ShortDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected

☐ Loose pigtails taped to cable

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 40 DOM id: TP TP4Y0039

(T, Long) Cable mark: 326

☐ Bottom shackle connected
☐ Top clutch connected at link # 20 Δ(40-41): 16.883
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

DOM position 39 DOM id: UP UP5P0696

(U, Short) Cable mark: 343

☑ Bottom shackle connected
☑ Top clutch connected at link # ~~26~~ 21 Δ(39-40): 16.931
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

Breakout 20

Time:
Now 14:42
Last b/o 14:28
Δt [min] 14
Depth:
Paro 357.15
Payout 357.25

- LongDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected
- ShortDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected

☐ Loose pigtails taped to cable

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 38 DOM id: TP TP6Y9471

(T, Long) Cable mark: 360

☐ Bottom shackle connected
☐ Top clutch connected at link # 19 Δ(38-39): 16.941
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

DOM position 37 DOM id: UP UP5P0706

(U, Short) Cable mark: 377

☐ Bottom shackle connected
☐ Top clutch connected at link # ~~20~~ 21 Δ(37-38): 16.961
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

Breakout 19

Time:
Now 14:53
Last b/o 14:42
Δt [min] 11

Depth:
Paro 390.82
Payout 391.28

- LongDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected
- ShortDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected

☐ Loose pigtails taped to cable

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 36 DOM id: TP TP6Y4275

(T, Long) Cable mark: 394

☑ Bottom shackle connected
☐ Top clutch connected at link # 19 Δ(36-37): 17.003
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

DOM position 35 DOM id: UP UP5P0820

(U, Short) Cable mark: 411

☐ Bottom shackle connected
☐ Top clutch connected at link # 21 Δ(35-36): 16.913
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

Breakout 18

Time:
Now 15:10
Last b/o 14:53
Δt [min] 17
Depth:
Paro 425.35
Payout 426.27

- LongDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected
- ShortDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected

☐ Loose pigtails taped to cable

☐ Put two Kellers (one is for backup) in bucket of water/ice mix

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 34 DOM id: TP TP6Y ~~8~~461

(T, Long) Cable mark: 428

☑ Bottom shackle connected
☐ Top clutch connected at link # 19 Δ(34-35): ~~16~~ 17.003
☑ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

DOM position 33 DOM id: UP UP5P1032

(U, Short) Cable mark: 445

☐ Bottom shackle connected
☐ Top clutch connected at link #_____ Δ(33-34): 16.902
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

Breakout 17

Time:

Now ~~15:40~~ 15:23
Last b/o 15:10
Δt [min] 13

Depth:

Paro ~~442.71~~ 459.77
Payout ~~443.56~~ 461.00

- LongDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected
- ShortDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected

☐ Loose pigtails taped to cable

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 32 DOM id: TP TPGY 4353

(T, Long) Cable mark: 462

☑ Bottom shackle connected
☐ Top clutch connected at link # 20 Δ(32-33): 16.942
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

DOM position 31 DOM id: UP UPGY 4286

(U, Short) Cable mark: 479

☐ Bottom shackle connected
☐ Top clutch connected at link # 20 Δ(31-32): 16.927
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

Breakout 16

Time:
Now 15:49
Last b/o 15:23
Δt [min] 26

Depth:
Paro 493.53
Payout 494.97

- LongDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected
- ShortDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected

☐ Loose pigtails taped to cable

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 30 DOM id: TP ~~UPGY4287~~ TPGY4285

(T, Long) Cable mark: 497

☐ Bottom shackle connected
☐ Top clutch connected at link # 19 Δ(30-31): 16.950
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

DOM position 29 DOM id: UP TPGY ~~4285~~ UPGY4318

(U, Short) Cable mark: 513

☐ Bottom shackle connected
☐ Top clutch connected at link # 20 Δ(29-30): 16.918
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

Breakout 15

Time:
Now 16:25
Last b/o 15:49
Δt [min] 35
Depth:
Paro 527.87
Payout 529.46

- LongDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected
- ShortDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected

☐ Loose pigtails taped to cable

Thermistor ☐ Present ☐ Distance to DOM29: 1 meter

Keller ☑ Connected ☑ Operational ☐ Air pressure [PSI]: 10 psi
Ser.#: ☐ Cable mark: 514 ☐ Distance to DOM29: 1 meter

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 28 DOM id: TP TPGY 4333

(T, Long) Cable mark: 529

☐ Bottom shackle connected
☐ Top clutch connected at link # 20 Δ(28-29): 16.981
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

DOM position 27 DOM id: UP UPGY 4470

(U, Short) Cable mark: 548

☐ Bottom shackle connected
☐ Top clutch connected at link # 20 Δ(27-28): 17.000
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

Breakout 14

Time:
Now 16:55
Last b/o 16:25
Δt [min] 30

Depth:
Paro 561.41
Keller NOT in water 578.94
Payout 563.00

- LongDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected
- ShortDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected

☐ Loose pigtails taped to cable

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 26 DOM id: TP TPGY 4445

(T, Long) Cable mark: 565

☐ Bottom shackle connected
☐ Top clutch connected at link # 19 Δ(26-27): 17.028
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

DOM position 25 DOM id: UP UPGY-4358

(U, Short) Cable mark: 581

☐ Bottom shackle connected
☐ Top clutch connected at link # Δ(25-26): 16.938
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

Breakout 13

- LongDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected
- ShortDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected

☐ Loose pigtails taped to cable

Time:

Now 17:20
Last b/o 16:55
Δt [min] 25

Depth:

Paro 595.45
Keller 595.36
Payout 597.56

↳ After this, I manually reset the ambient pressure for the Keller from 9.34 psi to 9.65 psi. Freyja

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 24 DOM id: TP TP6Y 4323

(T, Long) Cable mark: 599

☐ Bottom shackle connected
☐ Top clutch connected at link # 18 Δ(24-25): 17.038
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

DOM position 23 DOM id: UP UP-5P-0610

(U, Short) Cable mark: 616

☐ Bottom shackle connected
☐ Top clutch connected at link # 18 Δ(23-24): 16.965
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

Breakout 12

- LongDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected
- ShortDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected

☐ Loose pigtails taped to cable

Time:
Now 17:40
Last b/o 17:20
Δt [min] 20

Depth:
Paro 630.53
Keller 624.88
Payout 632.54

↳ After discussion, I've put Keller initial values back in! (-9.34)
Freija

17:41 stop for dinner

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 22 DOM id: TP TP4P0329

(T, Long) Cable mark: 634

☐ Bottom shackle connected

☐ Top clutch connected at link # 18 Δ(22-23): ~~16.965~~ .965

☑ Bow OK → ☐ clutch zip tied

Photos: ☐ phi orientation ☐ whole view

DOM position 21 DOM id: UP UP5P0784

(U, Short) Cable mark: 650

☐ Bottom shackle connected

☐ Top clutch connected at link # 18 Δ(21-22): 17.008

☐ Bow OK → ☐ clutch zip tied

Photos: ☐ phi orientation ☐ whole view

Breakout 11 Time:

Now

Last b/o

Δt [min]

Depth:

Paro 664.80

Keller 664.67

Payout 666.62

- LongDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected
- ShortDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected

☐ Loose pigtails taped to cable

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 20 DOM id: TP TP5P-0693

(T, Long) Cable mark: 667

☐ Bottom shackle connected
☐ Top clutch connected at link # 18 Δ(20-21): 16.941
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view
☐ Curved distance around DOM:_____ ☐ Vertical distance:_____

DOM position 19 DOM id: UP UPGY4328

(U, Short) Cable mark: 684

☐ Bottom shackle connected
☐ Top clutch connected at link # 18 Δ(19-20): 16.946
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view
☐ Curved distance around DOM:_____ ☐ Vertical distance:_____

Breakout 10

Time:
Now 19:12
Last b/o _____
Δt [min] _____
Depth: 63
Paro 698.~~68~~
Keller 698.41
Payout 700.34

- LongDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected
- ShortDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected

☐ Loose pigtails taped to cable

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 18 DOM id: TP TP4P0319

(T, Long) Cable mark: 701

☐ Bottom shackle connected
☐ Top clutch connected at link # 18 Δ(18-19): 16.818
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

DOM position 17 DOM id: UP UP6Y4230

(U, Short) Cable mark: 718

☐ Bottom shackle connected
☐ Top clutch connected at link # 19 Δ(17-18): 16.866
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

Breakout 9

- LongDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected
- ShortDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected

☐ Loose pigtails taped to cable

Time:

Now ~~16:06~~ 19:26
Last b/o 19:12
Δt [min] 14

Depth:

Paro 732.10
Keller 733.05
Payout 734.57

Correct?
Check w Mark

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 16 DOM id: TP TP6Y 4293

(T, Long) Cable mark: 736

☐ Bottom shackle connected
☐ Top clutch connected at link # 18 Δ(16-17): 16.971
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

DOM position 15 DOM id: UP UP6Y 4414

(U, Short) Cable mark: 753

☐ Bottom shackle connected
☐ Top clutch connected at link # 18 Δ(15-16): 16.942
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

Breakout 8

- LongDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected
- ShortDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected

☐ Loose pigtails taped to cable

Time:
Now 19:50
Last b/o 19:26
Δt [min] 24

Depth:
Paro 765.67
Keller 765.86
Payout 767.38

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 14 DOM id: TP ~~UP6Y4374~~ TP6Y-4379

(T, Long) Cable mark: 770

☐ Bottom shackle connected
☐ Top clutch connected at link # 18 Δ(14-15): 16.958
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

DOM position 13 DOM id: UP ~~TP6Y4379~~ UP6Y 4372

(U, Short) Cable mark: 787

☐ Bottom shackle connected
☐ Top clutch connected at link # 18 Δ(13-14): 16.959
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

Breakout 7

Time:

Now 20:05
Last b/o 19:50
Δt [min] 15

Depth:

Paro 801.30
Keller 801.40
Payout 802.86

- LongDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected
- ShortDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected

☐ Loose pigtails taped to cable

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 10 DOM id: TP TPGY 4261

(T, Long) Cable mark: 838

☐ Bottom shackle connected
☐ Top clutch connected at link # 18 Δ(10-11): 16.967
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

DOM position 9 DOM id: UP UPGY 4388

(U, Short) Cable mark: 855

☐ Bottom shackle connected
☐ Top clutch connected at link # 19 Δ(9-10): 16.994
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

Breakout 5

Time:

Now
Last b/o 20:35
Δt [min]

Depth:
Paro 870.0
Keller 871.54
Payout 871.53

- LongDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected
- ShortDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected

☐ Loose pigtails taped to cable

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 8 DOM id: TP TP64 4229

(T, Long) Cable mark: 872

☐ Bottom shackle connected
☐ Top clutch connected at link # 18 Δ(8-9): 16.960
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

DOM position 7 DOM id: UP UP4P 0338

(U, Short) Cable mark: 889

☐ Bottom shackle connected
☐ Top clutch connected at link # 20 Δ(7-8): 16.952
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

Breakout 4

Time:
Now 21:11
Last b/o
Δt [min]

Depth:
Paro 904.81
Keller 906.15
Payout 906.56

- LongDOM
  ☐ connector O-ring in place and ☐ lubed
  ☐ breakout O-ring in place and ☐ lubed
  ☐ connected

- ShortDOM
  ☐ connector O-ring in place and ☐ lubed
  ☐ breakout O-ring in place and ☐ lubed
  ☐ connected

☐ Loose pigtails taped to cable

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 6 DOM id: TP TPSP 0627

(T, Long) Cable mark: 907

☐ Bottom shackle connected
☐ Top clutch connected at link # 20 Δ(6-7): 17.033
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

DOM position 5 DOM id: UP UP6Y 4338

(U, Short) Cable mark: 924

☐ Bottom shackle connected
☐ Top clutch connected at link # 20 Δ(5-6): 16.961
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

Breakout 3

Time:

Now 21:31
Last b/o 21:11
Δt [min] 20

Depth:
Paro 938.74
Keller 940.75
Payout 940.54

- LongDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected
- ShortDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected

☐ Loose pigtails taped to cable

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 4 DOM id: TP TP5P0755
(T, Long) Cable mark: 940

☐ Bottom shackle connected
☐ Top clutch connected at link # 19 Δ(4-5): 16.989
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

DOM position 3 DOM id: UP UP6Y4348
(U, Short) Cable mark: 958

☐ Bottom shackle connected
☐ Top clutch connected at link # 19 Δ(3-4): 17.003
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

Breakout 2

Time:
Now 21:52
Last b/o 21:31
Δt [min] 21

Depth:
Paro 972.62
Keller 974.44
Payout 974.05

- LongDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected
- ShortDOM
  - ☐ connector O-ring in place and ☐ lubed
  - ☐ breakout O-ring in place and ☐ lubed
  - ☐ connected

☐ Loose pigtails taped to cable

☐ All clear to lower cable ☺

Photos: DOM ids (☐ long ☐ short); connectors (☐ long ☐ short)

DOM position 2 DOM id: TP_____
(T, Long) Cable mark: 975 TP5P0751

☐ Bottom shackle connected
☐ Top clutch connected at link # 19 Δ(2-3): 16.979
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

DOM position 1 DOM id: UP UP5Y0086
(U, Short) Cable mark: 992

☐ Bottom shackle connected
☐ Top clutch connected at link #_____ Δ(1-2): 16.991
☐ Bow OK → ☐ clutch zip tied
Photos: ☐ phi orientation ☐ whole view

Breakout 1 No upper yale grip

Time:
Now 22:38 SAT 12/23/06
Last b/o 21:52
Δt [min]_____
Depth:
Paro 1005.19
Keller 1007.21
Payout 1007.92

- LongDOM
  ☐ connector O-ring in place and ☐ lubed
  ☐ breakout O-ring in place and ☐ lubed
  ☐ connected

- ShortDOM
  ☐ connector O-ring in place and ☐ lubed
  ☐ breakout O-ring in place and ☐ lubed
  ☐ connected

☐ Loose pigtails taped to cable

No second Paro no more…

☐ Group photo

☐ All clear to lower cable ☺

Uphole Pressure Sensor (Setra)

After DOM1 is safely under the surface (> 50 m)

Time:_____

☐ Stop the cable winch

☐ Lower Setra pressure sensor into hole

☐ Distance to Setra from floor:_____

☐ Setra readout verified with monitoring system

☐ Well depth from Setra: _____

☐ Well depth from laser: _____

If the two well depth measurements agree:

☐ Switch to Setra well depth in monitoring system

Time:_____

Now the String Drop begins

String Drop

*The target depth is **2450** m*

☐ Switch cable winch to computer control

☐ Speed:_____ Time:_____ Depth:_____
☐ Speed:_____ Time:_____ Depth:_____
☐ Speed:_____ Time:_____ Depth:_____
☐ Speed:_____ Time:_____ Depth:_____
☐ Speed:_____ Time:_____ Depth:_____
☐ Speed:_____ Time:_____ Depth:_____

Depth Monitoring (log on the fly – do not stop for this)

Depth by Paro[1]	Time	Well depth[1]	Depth by cable marks[2]	Depth by Payout[1]	Δdepth P-K[1]
1000 m					
1500 m					
2000 m					
2100 m					
2200 m					
2300 m					
2385 ~~2400 m~~	00:57	47.668	2369	2401	Keller 2401

[1]Read off monitoring screen
[2]Cable mark offset = _____ (at DOM59) – 17 m = _____ (at DOM60)
(from p.4)

☐ Switch to manual control @ 2400 m

☐ Well depth
@ 2420:_____
@ 2440:_____

☐ Position string at target depth of **2450** m Time:_____

☐ String secured with Yale grip and anchor chain Time:_____

2384 + 15
2399

50 m
2440

Absolute depth with bottom Paro
(depth in *meters* and pressure in *PSI*)

☐ Distance from Paro to DOM60:

$d_{Paro\text{-}DOM59}$ = 0.614 (from p. 4)

$d_{Paro\text{-}DOM60}$ = ($d_{Paro\text{-}DOM59}$ + 17) m = 17.614 ← insert below

☐ Convert Paro pressure to string depth:

$K = 3.78151 \cdot 10^{-6}$ /PSI (compressibility of aerated water)

(use 6 decimals for exp's)

Ambient pressure (from p. 4): P_0 = _____ PSI → $\exp(-KP_0)$ = _____

Pressure reading (from screen): P = _____ PSI → exp(-KP) = _____

Subtract exponentials → = _____

× $1.85947 \cdot 10^5$

Paro depth in water → = _____ m

Add distance to DOM60 (above) → + _____ m

Add well depth → + _____ m

Depth of bottom DOM → = _____ m

Final depth estimates (after tie-off)

◀---------- read off deployment screen ---------▶

Time:	Paro m	Keller m	Payout	Cable marks
Reading	2443.14 ~~PSI~~	2459.02 ~~PSI~~	2458.98 m	2426 m
Offset	PSI	PSI	m	m
Well depth	47.668 m		This space is intentionally left blank	
Dist. to DOM60	m	m		
DEPTH (DOM60)	2443.14	2459.02		

Time: 1h30

Final depth (DOM60): 2450 m (avg)

Deployment Closeout

- ☐ Log entries complete
- ☑ String safely secured
- ☑ Hole covered and secured
- ☑ Equipment safely shutdown and secured
- ☑ Deployment data OK (in database)
- ☑ Site cleanup
- ☑ Deployment crew dismissed
- ☑ String deployment complete

Time: 3 am Date: 12/24/06

Shift Lead: _____
name / signature

Logger: _____
name / signature

PTS Lead: _____
name / signature

Deployment Manager: _____ 12/25/06
name / signature

Safety Officer: _____
name / signature

IceCube On-ice Lead: _____
name / signature

IceCube Deployment Monitoring Check Sheet (IDMCS)

Version 4.0
December 12, 2006

Kurt Woschnagg, UCB

General instructions

- Read through this entire document before deployment starts.
- Deployment monitoring is done with a computer (housed in the TOS) running drill/deployment monitoring software (by Chuck Rentmeesters) with a GUI for readout and manual inputs. All deployment sensor data and manual inputs are logged and saved on disk by this system.
- For each manual entry into the monitoring interface (marked **ENTER** below), also make a note in the logbook (marked *Logbook* below).
- For each entry in the logbook, include time and name (initials).
- Write down as much useful information you can think of (it *will* all be needed sooner or later).

Measurement instructions

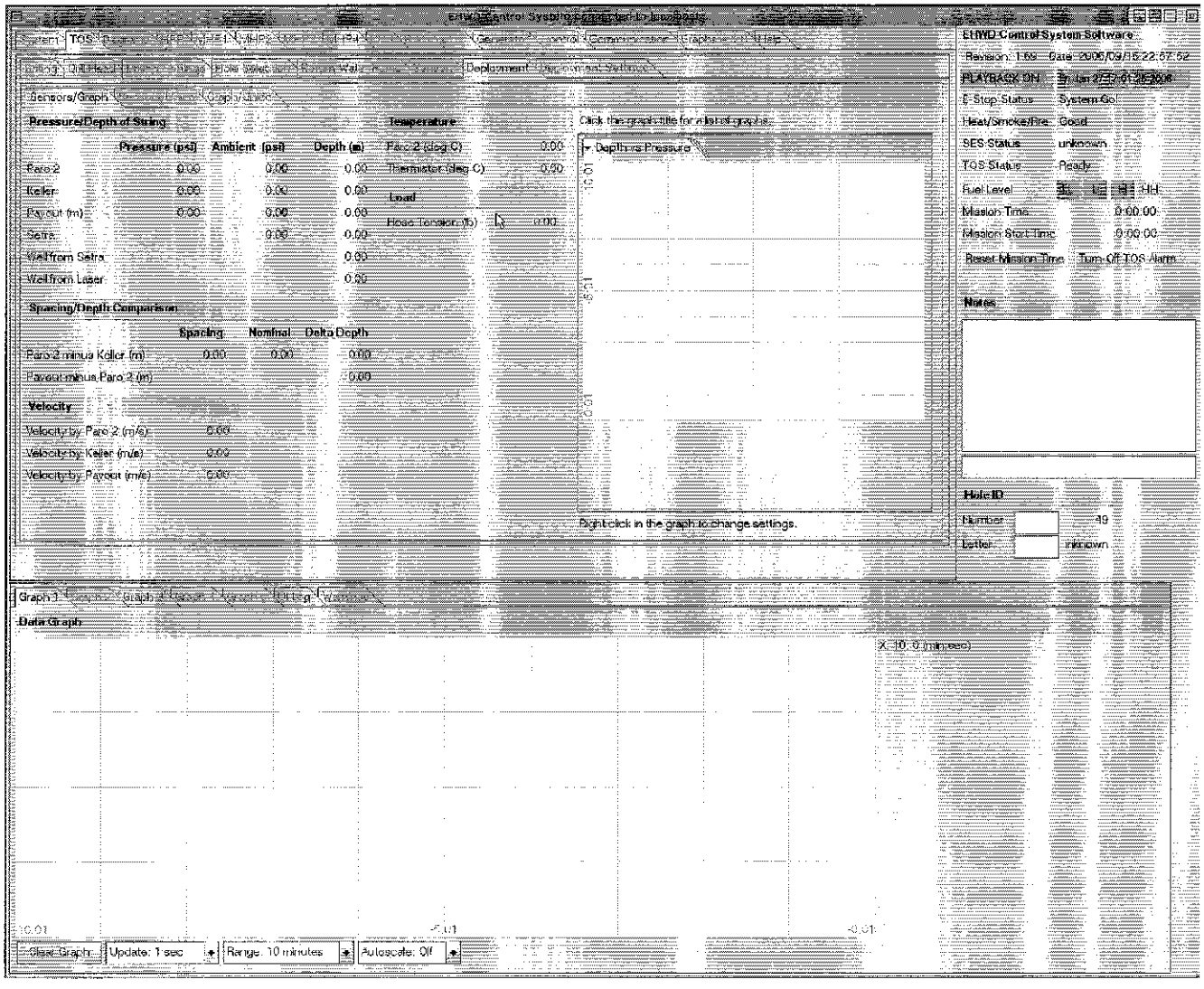
- All vertical measurements are relative to the floor of the tower (not the lip of the kick board).
  - Measure well depth from this level.
  - Take cable mark readings at this level.
- The location of a DOM on a string (for distance measurements) is defined as the position of the center of the sphere (at the equator defined by the harness).
- When taking a cable mark reading, estimate the location to nearest cm (0.01 m) with closest cable marks and tape measure.
- The location of a Paro is defined at the bottom of its body (at the little hole with the nipple).
- The location of a Keller is defined at the row of holes in the black plastic nose cap.
- The distance between a pressure sensor and the nearest DOM is positive/negative if the unit is above/below the DOM.
- Well depth is measured with a laser ranger (if possible), or with a tape measure (if not).
- The unit used for all distances and depths during deployment is **meters**.

Screen Tab: TOS ▶ Deployment

▶ Sensors/Graph

This is the main tab used during deployment monitoring. No input required on this tab.

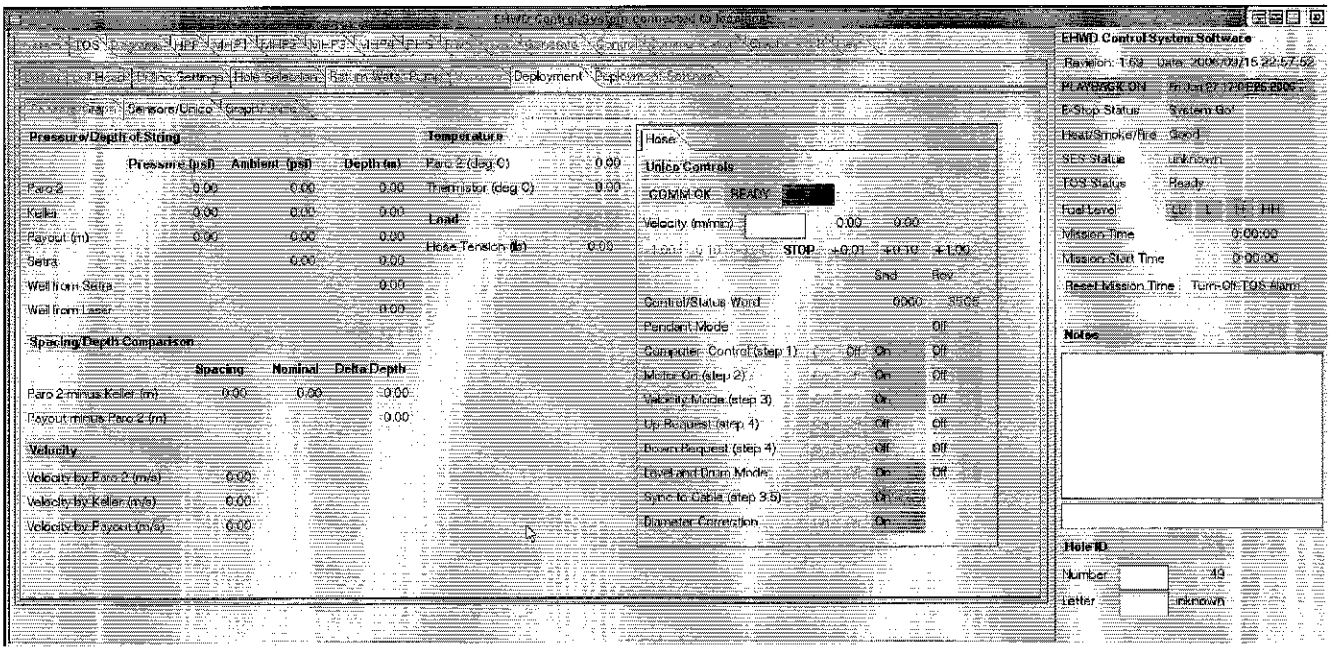
Pressure/Depth of String	Current and ambient (air) pressures, and the corrected depths at DOM60.
Spacing/Depth Comparison	Difference in depth from pressure data. *Should be stable during deployment!*
Velocity	The deployment velocity calculated from recent pressure/payout readings.
Temperature	Temperature readings.
Load	Cable tension from load cell data.



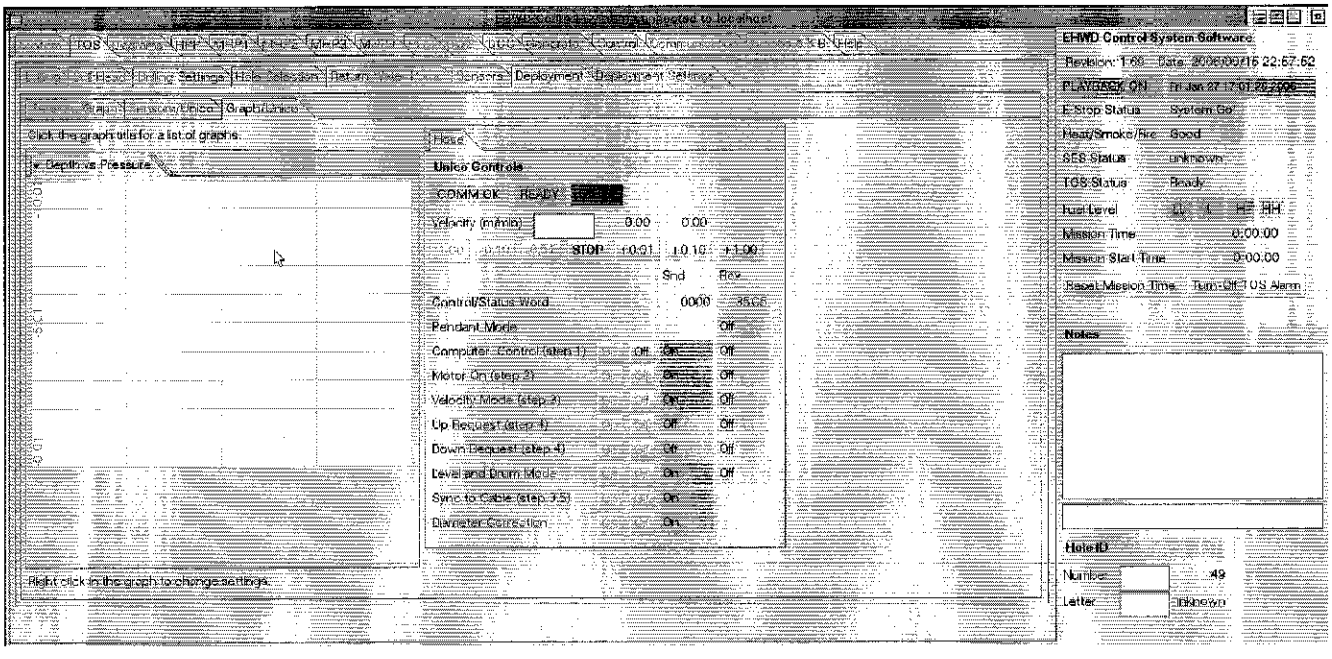
Screen Tab: TOS ► Deployment

► Sensors/Unico

This tab has the same data display as the main Sensors/Graph tab above, but instead of the graph window this tab has the controls for the Unico drive which controls the winch.



► Graph/Unico

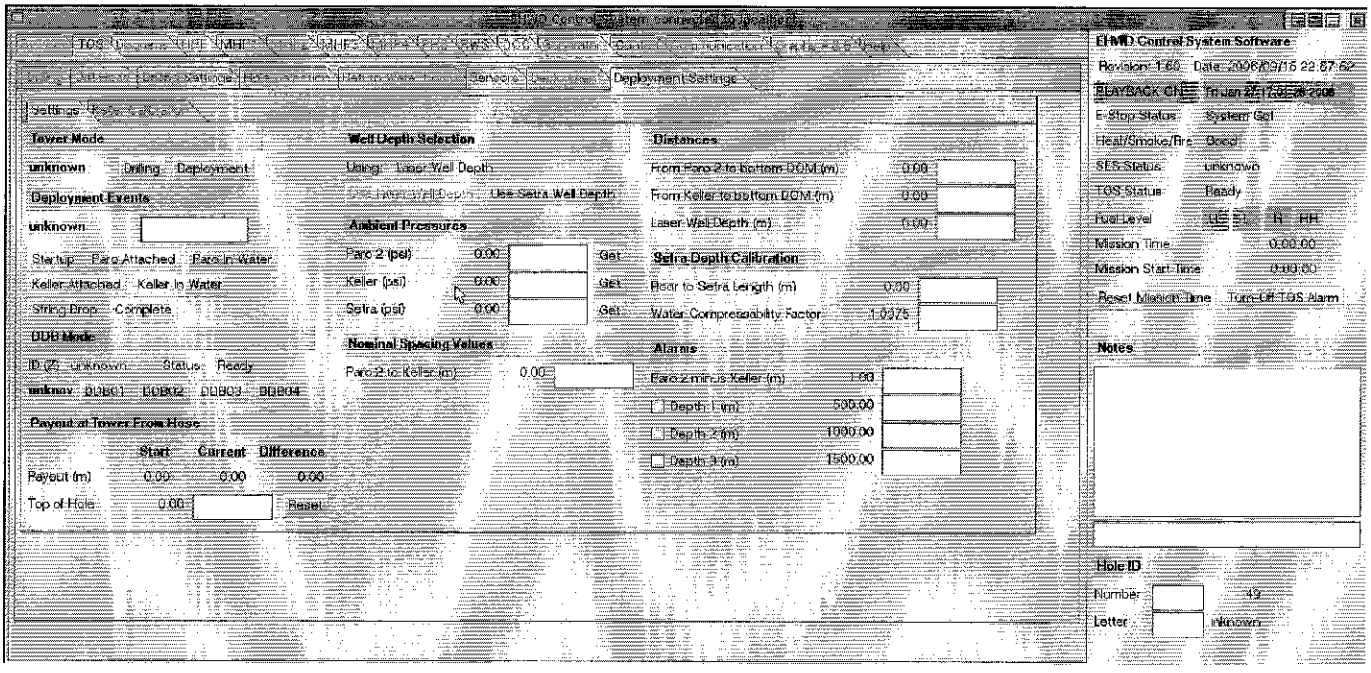


Screen Tab: TOS ► Deployment Settings

► Settings

This is the main tab for entering information that is needed for a correct depth calibration of the pressure data. Make sure you understand what all the entries mean before deployment starts.

Tower Mode	Click on "Deployment".
Deployment Events	Click the appropriate button when one of the predefined events occurs (see list below).
DDB Mode	Select the correct DDB ID before deployment startup (needed for Keller calibration).
Payout at Tower	Reset payout when bottom DOM is at tower floor level.
Well Depth Selection	Select source of well depth used in depth calculation.
Ambient Pressures	Press "Get" when pressure sensor is attached to cable, or enter reading at that time.
Nominal Spacing	Enter calculated distance between Paro and Keller.
Distances	Enter calculated distances between Paro/Keller and DOM60, and well depth.
Setra Depth Calib.	Enter measured length of Setra cable, from floor to sensor.
Alarms	Set values for which alarm is to be sounded (optional).



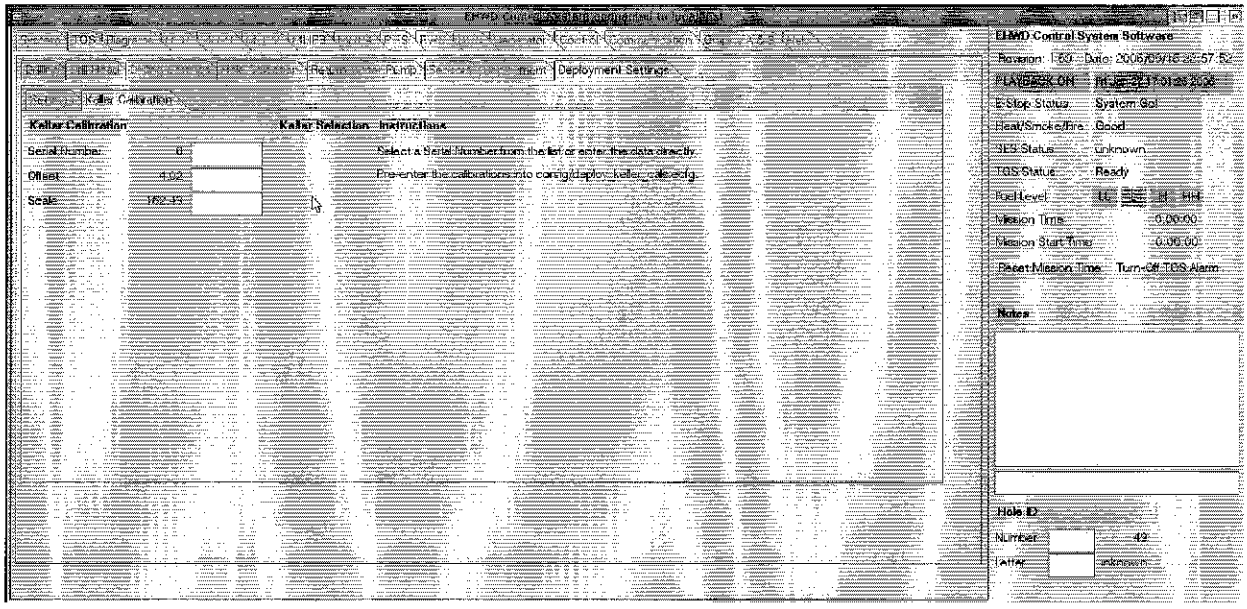
Deployment Events

☐ **Startup**	Click when the deployment begins.
☐ **Paro Attached**	Click when the Paro is attached to the breakout and starts sending data.
☐ **Paro In Water**	Click when the Paro reaches the water.
☐ **Keller Attached**	Click when the Keller is attached to the breakout and starts sending data.
☐ **Keller In Water**	Click when the Keller reaches the water.
☐ **String Drop**	Click when the String Drop phase begins, after all DOMs have been attached.
☐ **Complete**	Click when the deployment ends (string is secured, etc).

Screen Tab: TOS ► Deployment Settings

► Keller Calibration

On this tab you select the Keller ID by clicking on the appropriate button. The correct (pre-programmed) calibration constants will then be used for the Keller pressure reading.



Screen Tab: TOS ► Hole Selection

On this tab you select the hole/string number, *either* by clicking on the numbered button on the left *or* by entering it in the "Hole ID" field in the lower right hand corner.

Distances between devices

calculate manually and enter on Deployment Settings tab

Distance between Paro and DOM60: _____ = _____

Distance between Keller and DOM60: _____ = _____

Distance between Paro and Keller: _____ = _____

Notes:

There are 60 DOMs on every string.

The nominal spacing between DOMs is 17 m.

The nominal spacing between breakouts is 34 m.

Breakouts (1-30) and DOMs (1-60) are counted from the top.

The Keller is at breakout 15, just above DOM29.

The Paro is at breakout 30, just above DOM59.

(Fun Fact: There used to be a second Paro at breakout 1 on the first four strings)

Pressure conversions

	PSI	mH_2O	Atm
1 PSI =	1	0.70	0.07
1 mH_2O =	1.4	1	0.1
1 atm =	14.7	10.3	1

Check Sheet

STRING # 66

DATE: 23/12/2006

Before Deployment

- [x] **Action**: Locate laser ranger for well depth measurements.
- [x] **Action**: Locate metric tape measure.
- [x] **Action**: Locate one Paro and one Keller, *plus spares* of each. ac OK for PARO OK
- [x] **Action**: Locate bucket (for cooling of Keller sensor with water/ice mix).
- [x] **Action**: Fill bucket with snow and place in heated area to make slush.
- not done [ ] **Action**: Locate Setra uphole pressure assembly (sensor + cable).

Deployment Startup

- [x] **Action**: Click "Deployment" button under "Tower Mode" on Deployment Settings tab.
- [x] **Action**: Select string (=hole) number on Hole Selection tab.
- [x] **Action**: Note deployment start time. 9h30 → started on weights

  Logbook: Time
- [x] **Action**: Click "Reset Mission Time" on the right panel on the deployment screen.
- [x] **Action**: Click "Startup" under Deployment Events.

☑ **Action**: Note DDB id number (1, 2, 3, or 4). automatic.

ENTER: DDB# (select button)

Logbook: DDB# 3

☑ **Action**: Take a well depth measurement with the laser ranger.

ENTER: Well depth [m] 51.058

Logbook: Well depth

Start values:
load: → working -94.4
end of cable is marked 0m.

☑ **Action**: Reset Payout when DOM60 breaks the plane of the floor.

CLICK: "Reset" button (Top of Hole Reset) on Deployment Settings ▶ Settings tab.

Logbook: Payout Start value ~> ~~negative~~ ~> 0.13

☐ **Action**: Get cable mark reading at DOM59. payout ~13m.

Logbook: Cable mark [m]

☐ **Action**: Attach Paro at breakout #30. (This is called "Paro2" on the monitoring screen).

Logbook: Paro serial number #104 222

☑ **Action**: Click "Paro Attached" under Deployment Events.

☑ **Action**: Measure distance between Paro location and nearest DOM. 0.534 up +17.050

Estimate distance to *bottom* DOM by adding *n* 17-meter segments
(*n* should be 1 for the Paro since nearest DOM is #59).

ENTER: Distance [m] from Paro to *bottom* DOM (#60)

Logbook: Distance to nearest DOM, nearest DOM#, estimated distance to DOM60

☑ **Action**: Get cable mark reading at Paro. !!

Logbook: Cable mark [m] 2.60

☐ **Action**: Take Paro air pressure reading just before it breaks the water surface.

ENTER: Ambient pressure [PSI] for Paro 9.65 at top of well.

Logbook: Paro2 air pressure

During Deployment

☑ **Action**: Click "Paro In Water" under Deployment Events.

☐ **Action**: Measure curved distance of main cable going around DOM (for at least two DOMs).

Logbook: Straight (vertical) distance for DOM segment, curved cable distance

☑ **Action**: Measure real distance between neighboring DOMs (for every pair) with laser ranger.

Logbook: DOM#'s, distance

☑ **Action**: Put Keller (and one spare) in bucket of water (at near freezing temperature) at least one hour before breakout #15 is reached.

Note: The Keller is not temperature corrected and must therefore be brought to the temperature of the water in the hole (0-2°C) before the air pressure offset is determined.

☑ **Action**: Attach Keller at breakout #15.

ENTER: Keller serial number } 0503999

Logbook: Keller serial number

☑ **Action**: Click "Keller Attached" under Deployment Events.

☑ **Action**: Measure distance between Keller and nearest DOM. 0.880

Estimate distance to *bottom* DOM by adding *n* 17-meter segments (*n* should be 31 for Keller since nearest DOM is #29).

ENTER: Distance [m] from Keller to *bottom* DOM (#60)

Logbook: Distance to nearest DOM, nearest DOM#, estimated distance to DOM60

☐ **Action**: Get cable mark reading at Keller.

Logbook: Cable mark [m] for Keller

☐ **Action**: Determine Keller air pressure offset before (or just as) Keller hits water.

ENTER: Ambient pressure [PSI] for Keller

Logbook: Ambient Keller pressure

☑ **Action**: Click "Keller In Water" under Deployment Events. → manually set the ambient pressure to 9.05

☐ **Action**: Get cable mark reading at top DOM.

Logbook: Cable mark [m]

just testing !!!

☐ **Action**: Measure well depth as soon as top DOM is under water.

ENTER: Well depth [m]

Logbook: Well depth [m], measurement method (laser/tape)

Between DOM attachment and String Drop

98,701

☒ **Action**: Lower Setra assembly into hole (after top DOM is at least 50 m under the surface).

☒ **Action**: Measure distance between Setra sensor and floor of tower (distance marked on cable).

ENTER: Distance Setra to floor [m]

Logbook: Distance Setra to floor

☒ **Action**: Measure well depth with Setra system and laser ranger and compare.

Logbook: Well depth from Setra [m], well depth from laser [m]

☐ **Action**: If the two well depth meaurements agree, switch from laser to Setra in monitoring system.

2369 | residual = 23 cable
2386 | 15 total.

Floor @ 9' floor

During String Drop

☐ **Action**: Click "String Drop" under Deployment Events.

☐ **Action**: Measure well depth manually (with laser ranger and/or tape measure).

(if shift lead allows: repeat several times during drop)

ENTER: Well depth [m]

Logbook: Well depth, measurement method (laser/tape)

☐ **Action**: Read cable marks at regular intervals.

Logbook: Cable mark [m]; depth readings [m] (Paro, Keller); time

2421

End of Deployment

☐ **Action**: Get final pressure readings from Paro and Keller when final depth has been reached. (after tie-off!)

Logbook: Pressure readings [PSI]; corrected depths [m] (from screen)

☐ **Action**: Get final well depth reading (laser and/or Setra).

HAS TO BE SIMULTANEOUS WITH FINAL PRESSURE READINGS!

Logbook: Well depth [m] (laser); well depth [m] (Setra)

↳ 97.068

☐ **Action**: Note deployment end time.

Logbook: Time

☐ **Action**: Click "Complete" under Deployment Events.

location copy

String 66

Name	Domid	Special	Comment
Ah_Mucen_Cab	UP6Y4318		
Ajbit	UP6Y4286		
Quetzalcoatl	UP6Y4358		
Bryology	UP5P0784	Droopy	
Ahau_Kin	TP6Y4333		
New_York	UP5P1032	Droopy	
Thermophobia	TP5P0583	Droopy	
Kentucky	UP5P0932	Droopy	
	TP6Y4461		Instead of TP6Y4331
Mushroom	TP4P0209	Droopy	
Ixtab	TP6Y4285		
Dentophobia	UP5P0646	Droopy	
Hou_I	UP6Y4470		
Poki	TP5P0567	Droopy	
Hui_Lu	TP6Y4353		
Tekka	AP4P0064	FAT 1 - deploy in position 51-60 only ! ice-top Droopy	Important !!!!
Ometeotl	UP6Y4348		
Jaguarnacht	TP6Y4229		
			Just 63 doms out
Alpaca	UP4P0240	Droopy	
Tohil	TP6Y4293		
Yali	TP5P0563	Droopy	
Craniology	UP5P0820	Droopy	
Cang_Jie	UP6Y4456		
Denver	TP5P0873	Droopy	
Llama	UP4P0354	Droopy	
Lemon	TP4P0079	FAT 1 - deploy in position 51-60 only ! Droopy	Important !!!!
Kosmikophobia	UP5P0696	Droopy	
Algophobia	UP5P0640	Droopy	
Tzinteotl	UP6Y4338		
Teratology	TP5P0755	Droopy	
Archeology	UP5P0750	Droopy	
Chubasco	UP5P0536	Droopy	
Apotemnophilia	UP5P0860	Droopy	
	TP6Y4275		Instead of TP5P0579
Axiology	UP5P0766	Droopy	
Draupadi	UP6Y4290		
Romulus	AP4P0059	FAT 1 - deploy in position 51-60 only ! ice-top Droopy	Important !!!!
Rama	TP6Y4379		
Avatara	UP6Y4388		

one found

String 66

Name	Domid	Special	Comment
Rat	TP4P0269	Droopy	
	TP6Y4445		Instead of TP6Y4287
Ferrari_Berlinetta	UP5Y0086	Droopy	
Weldebreu	TP4Y0039	Droopy	
Ab_Kin_Xoc	UP6Y4328		
Idaho	UP5P0950	Droopy	
Parvati	TP6Y4371		
Tomophobia	TP5P0635	Droopy	
Huashan	TP6Y4471		
Ah_Kinchil	TP6Y4323		
Virology	TP5P0751	Droopy	
Utah	UP5P0960	Droopy	
Whale	TP4P0319	Droopy	
Tallahassee	TP5P0883	Droopy	
Rukmini	UP6Y4372		
Hobbit	UP5P0610	Droopy	
Krischna	TP6Y4261		
Agliophobia	UP5P0706	Droopy	
Maine	UP5P0966	Droopy	
Raktavija	UP6Y4414		
Zebra	TP4P0329	Droopy	
Scoleciphobia	TP5P0693	Droopy	
Werewolf	TP5P0627	Droopy	
Impala	UP4P0338	Droopy	

String Installation Traveler

Surface Cable# : 66 **Length (m) :** 691 m	**Start date:** / /
Surface to DOM Cable# : C11	**Start date:** 12 / 22 / 06

	Process Step	Doc. no. reference	Tech initials	Date Completed	Comments
1	Visual Inspection of Cables at Pole	9400-0006-QLP	MK		not present

Surface Cable Assembly Inspection **Pass** ☑ **Fail** ☐ **By:** ☐

Surface to DOM Cable Assembly Inspection **Pass** ☑ **Fail** ☐ **By:** ☐

2	Trench Surface Cable Assembly (SCA)	9400-0006-QLP	MK		trenched during 05-06 season
3	Install SCA into Surface Junction Box (SJB)	9400-0006-QLP	MK		installed during 05-06 season
4	Install SCA into ICL	9400-0075-PLN	MK	1/4/07	TICL to ICL conversion
5	Complete IceTop FCU Power and Data Installation Procedure	9400-005-QLP			05-06 season
6	Verify Connectivity of IceTop DOMs with Quad Connectivity Tester (QCT)		MK	1/8/07	
7	Pre-deployment Inspection Procedure		MK		not present
8	S2D Cable into SJB installation	9400-0007-QLP	MK	1/3/07	
9	Wet Connector Testing of Quads		MR	1/8/07	
10	QCT Testing of Quads		MK	1/8/07	
11	SJB Final Inspection Complete (Ok to Bury)	9400-0007-FRM	MK	1/28/07	
12	Handoff to IceCube C &V Team		MR	1/28/07	

String Installation Traveler

String QCT and Wet Connector Test Form

String # 66 Name of Tester: Mike Kleist

Quad name	QCT Results # of DOMs (0, 1, 2) # of DOMs WP0	# of DOMs WP1	Pass/ Fail	Wet Connector Test Results (micro Amps) J	L	M	K	Pass/ Fail	Recheck Pass/ Fail
Q2	2	2	P					P	
Q3	2	2	P					P	
Q4 - bad patch cable	2	2	P					P	
Q5	2	2	P					P	
Q6 - bad patch cable	2	2	P					P	
Q7	2	2	P					P	
Q8	2	2	P					P	
Q9	2	2	P					P	
Q10	2 X	2	~~F~~ OK, good 1pr					P	
Q11	2	2	P					P	
Q12	2	2	P					P	
Q13	2	2	P					P	
Q14	2	2	P					P	
Q15	2	2	P					P	
Q16	2	2	P					P	
IceTop Quads									
ITQ1	1	1	P						
ITQ2	1	1	P						

Service Quads	Device Connected	Verified on	Tech Initials	Comments
Q1				
Q17				
Q18				
Q19				
Q20				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IMG_4202 TP4Y0039.JPG


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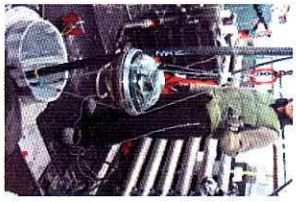
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IMG_4214 TP6Y4275.JPG


IMG_4216 UP5P0820.JPG


IMG_4217 UP5P0820.JPG


IMG_4219 TP6Y0461.JPG


IMG_4220 TP6Y0461.JPG


IMG_4222 UP5P1032.JPG


IMG_4223 UP5P1032.JPG


IMG_4225 TP6Y4353.JPG


IMG_4226 TP6Y4353.JPG


IMG_4227 TP6Y4353.JPG


IMG_4228 TP6Y4353.JPG


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IMG_4237 UP6Y4318.JPG


IMG_4238 UP6Y4318.JPG


IMG_4240 TP6Y4333.JPG


IMG_4241 TP6Y4333.JPG


IMG_4243 UP6Y4470.JPG


IMG_4244 UP6Y4470.JPG


IMG_4246 TP6Y4445.JPG


IMG_4247 TP6Y4445.JPG


IMG_4249 UP6Y4358.JPG


IMG_4250 UP6Y4358.JPG

Hole 00 adjusted: positions 39 - 10

142 Canon 1-3


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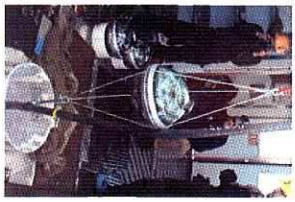
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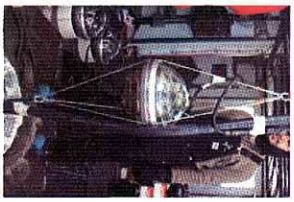
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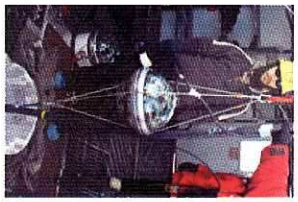
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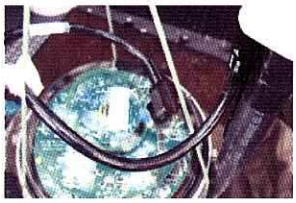
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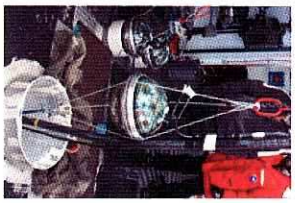
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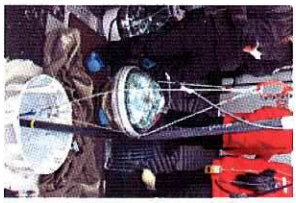
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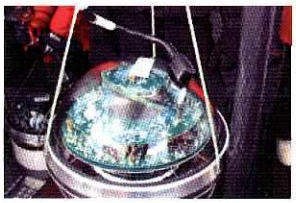
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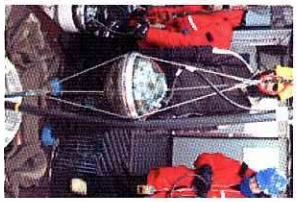
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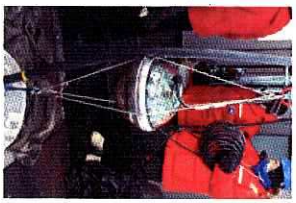
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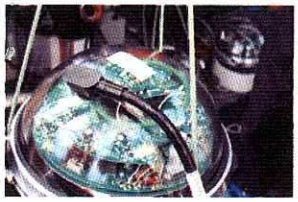
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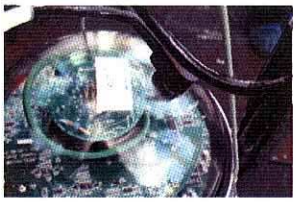
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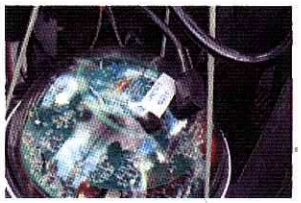
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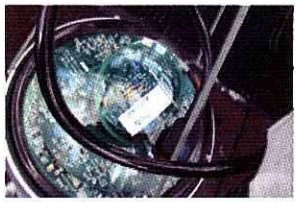
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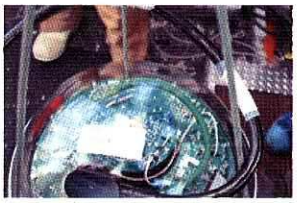
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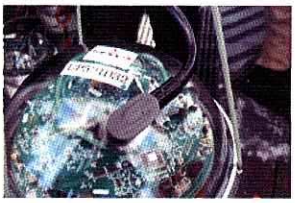
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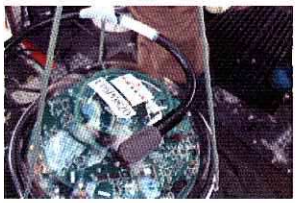
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POSITION 38.JPG


POSITION 39.JPG

EGO


[POSTION 7.JPG


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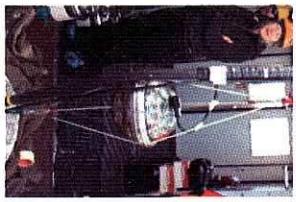
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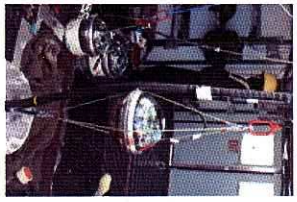
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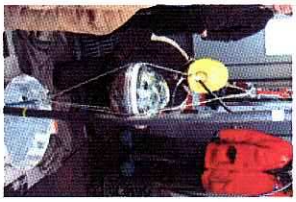
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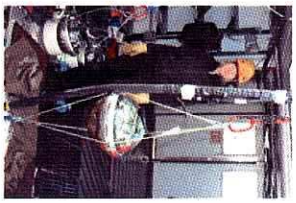
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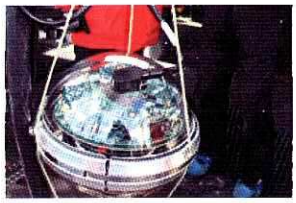
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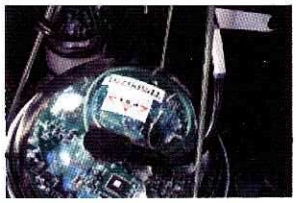
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POSITION 5.JPG


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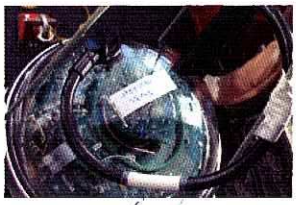
POSITON 1.JPG

Hole was adjusted: positions 9 - 1

Mscanon 1-2

POSITON 4.JPG


IMG_4119.JPG


IMG_4120.JPG


IMG_4121.JPG


IMG_4122.JPG


IMG_4123.JPG


IMG_4124.JPG


IMG_4125.JPG


IMG_4126.JPG


IMG_4127.JPG


IMG_4128.JPG


IMG_4129.JPG


IMG_4130.JPG


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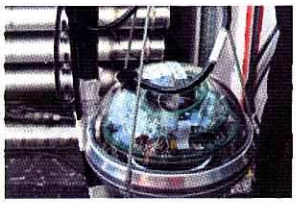
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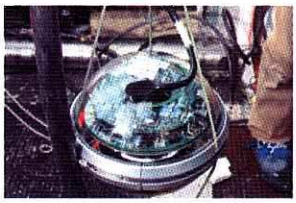
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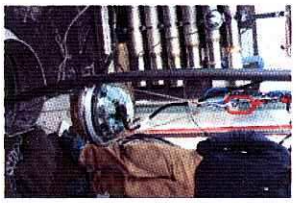
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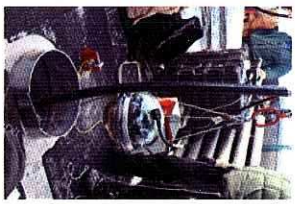
IMG_4149 AP4P0064.JPG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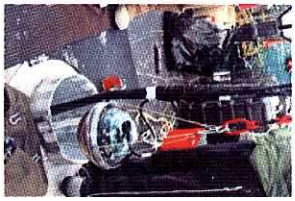
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Hole cole adjusted; positions 60 - 40..

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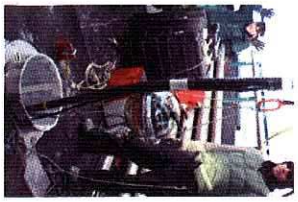
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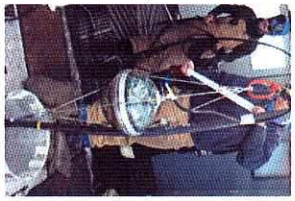
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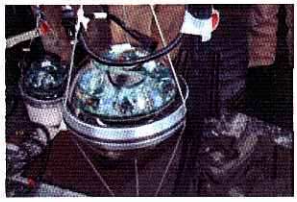
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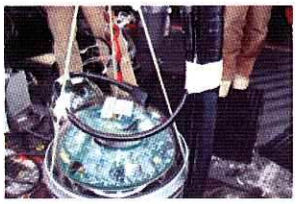
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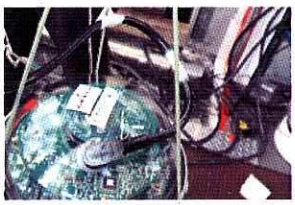
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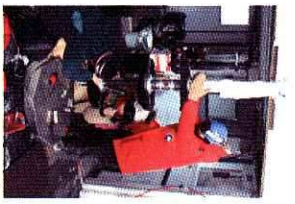
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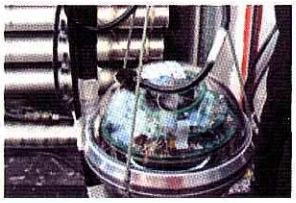
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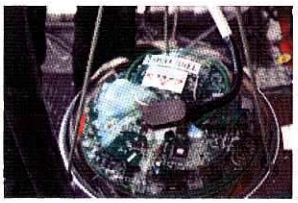
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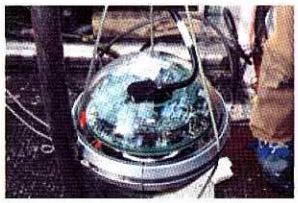
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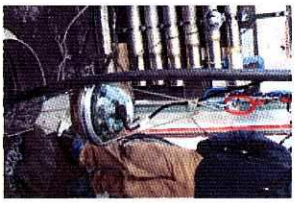
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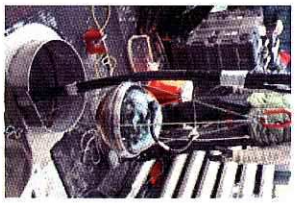
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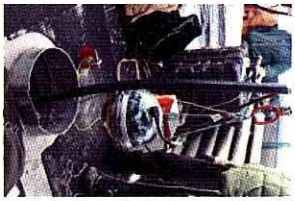
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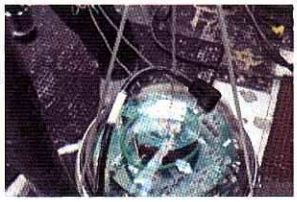
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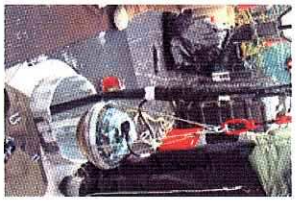
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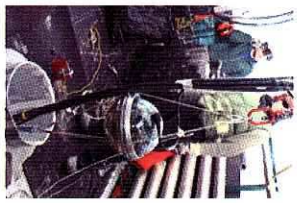
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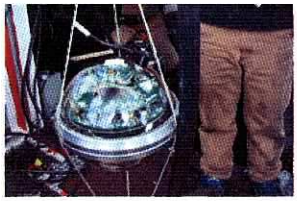
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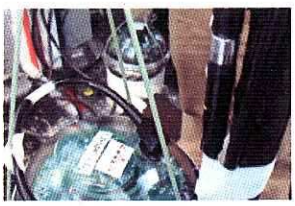
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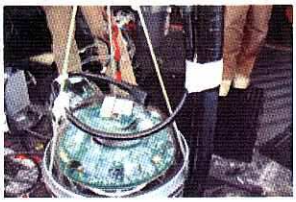
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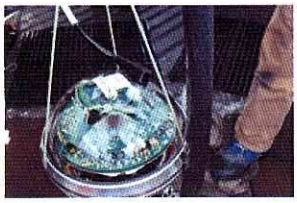
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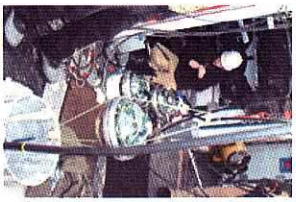
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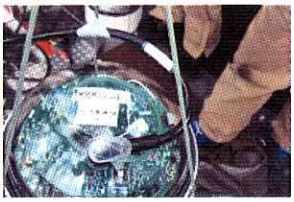
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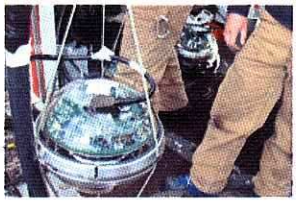
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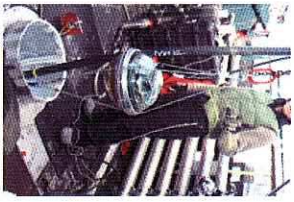
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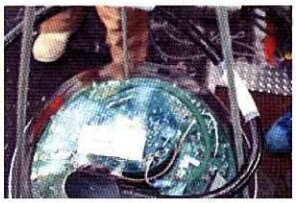
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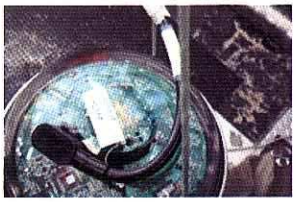
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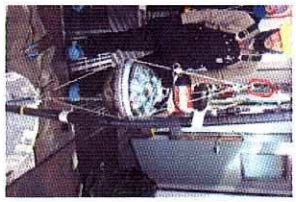
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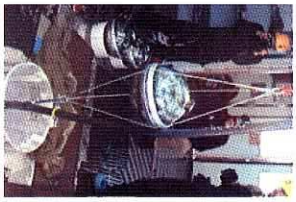
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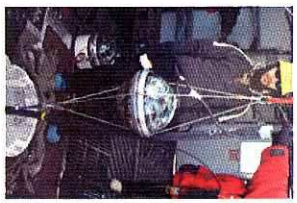
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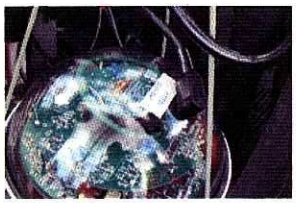
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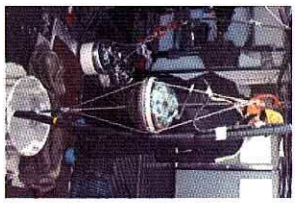
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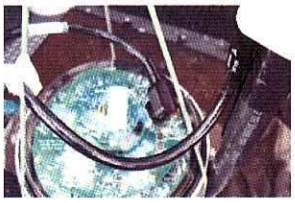
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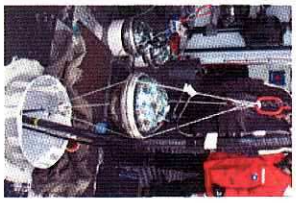
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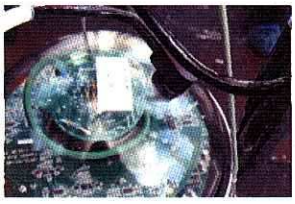
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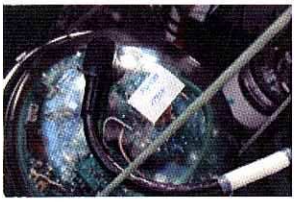
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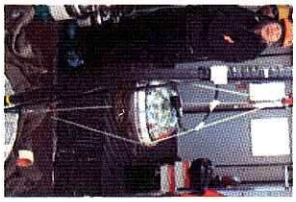
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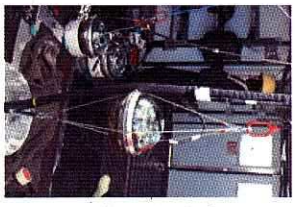
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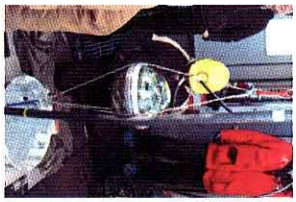
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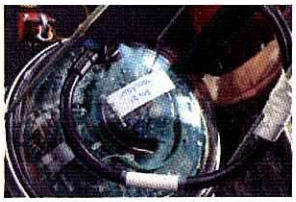
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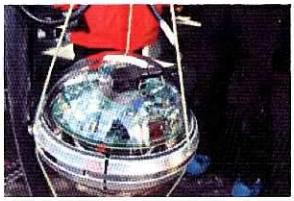
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IMG_4336.JPG

Hale Ct

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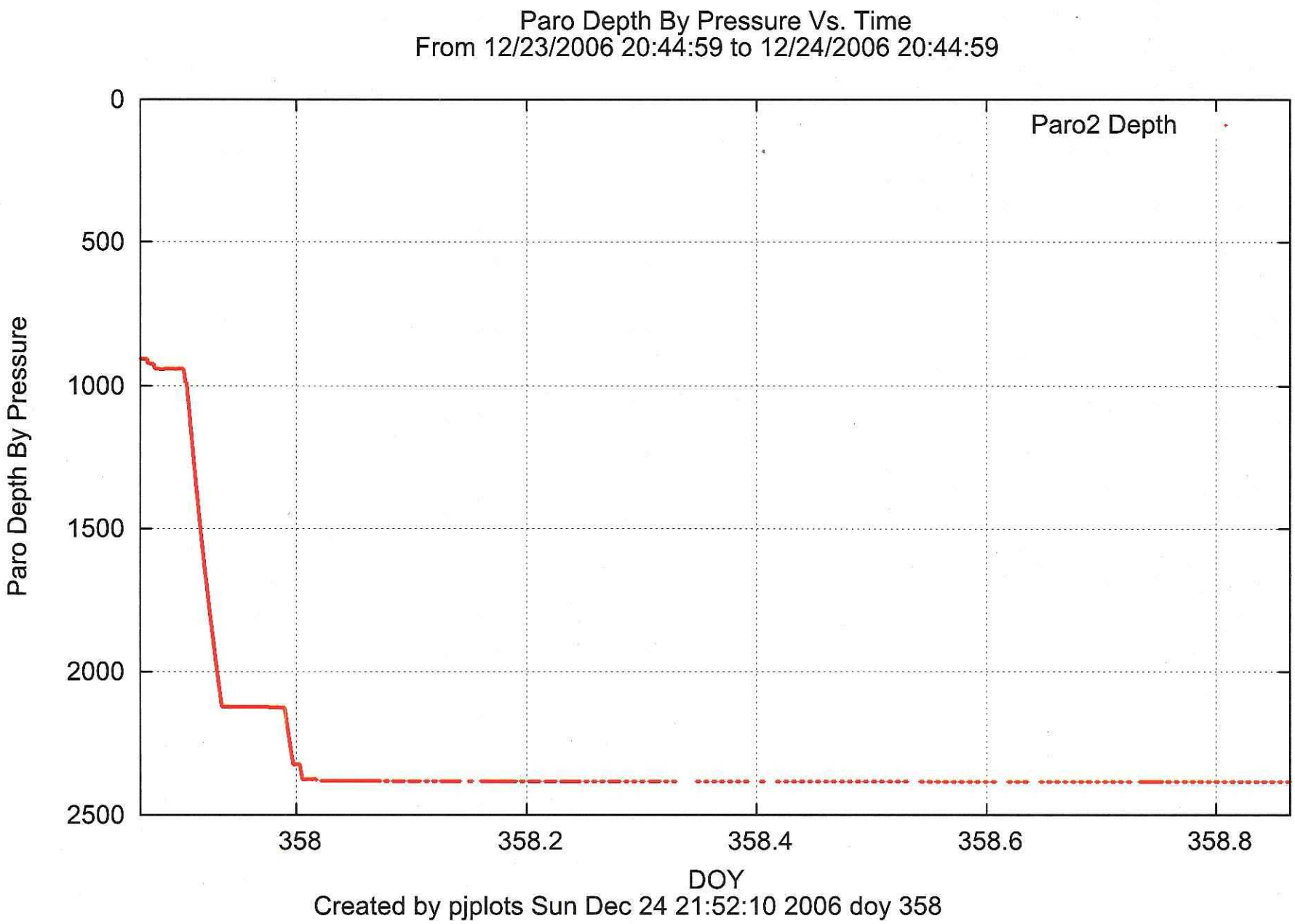

Paro Depth By Pressure Vs. Time
From 12/23/2006 20:44:59 to 12/24/2006 20:44:59
Paro2 Depth
Paro Depth By Pressure
0
500
1000
1500
2000
2500
358
358.2
358.4
358.6
358.8
DOY
Created by pjplots Sun Dec 24 21:52:10 2006 doy 358

Generating a 'Paro Depth By Pressure Vs. Time' Plot...

Note this may take a while, so please have patience!

Note: Files generated on this page are TEMPORARY, if you want the graphs,
it is your responsibily to save the file to your computer for future use!

Click on the plot when it appears for a PDF of that plot.

```
Failed to remove: 1166940601-kUHDvZ-TEMPD
Failed to remove: 1166938201-Xy3GvB-TEMPD
Failed to remove: 1166938801-gu36hx-TEMPD
Failed to remove: 1166940728-q3m9zr-TEMPD
Failed to remove: 1166938929-Qzy_67-TEMPD
Failed to remove: 1166938329-abAEFK-TEMPD
Failed to remove: 1166946729-AM4ntB-TEMPD
Extracting data...
Done Extracting...
```

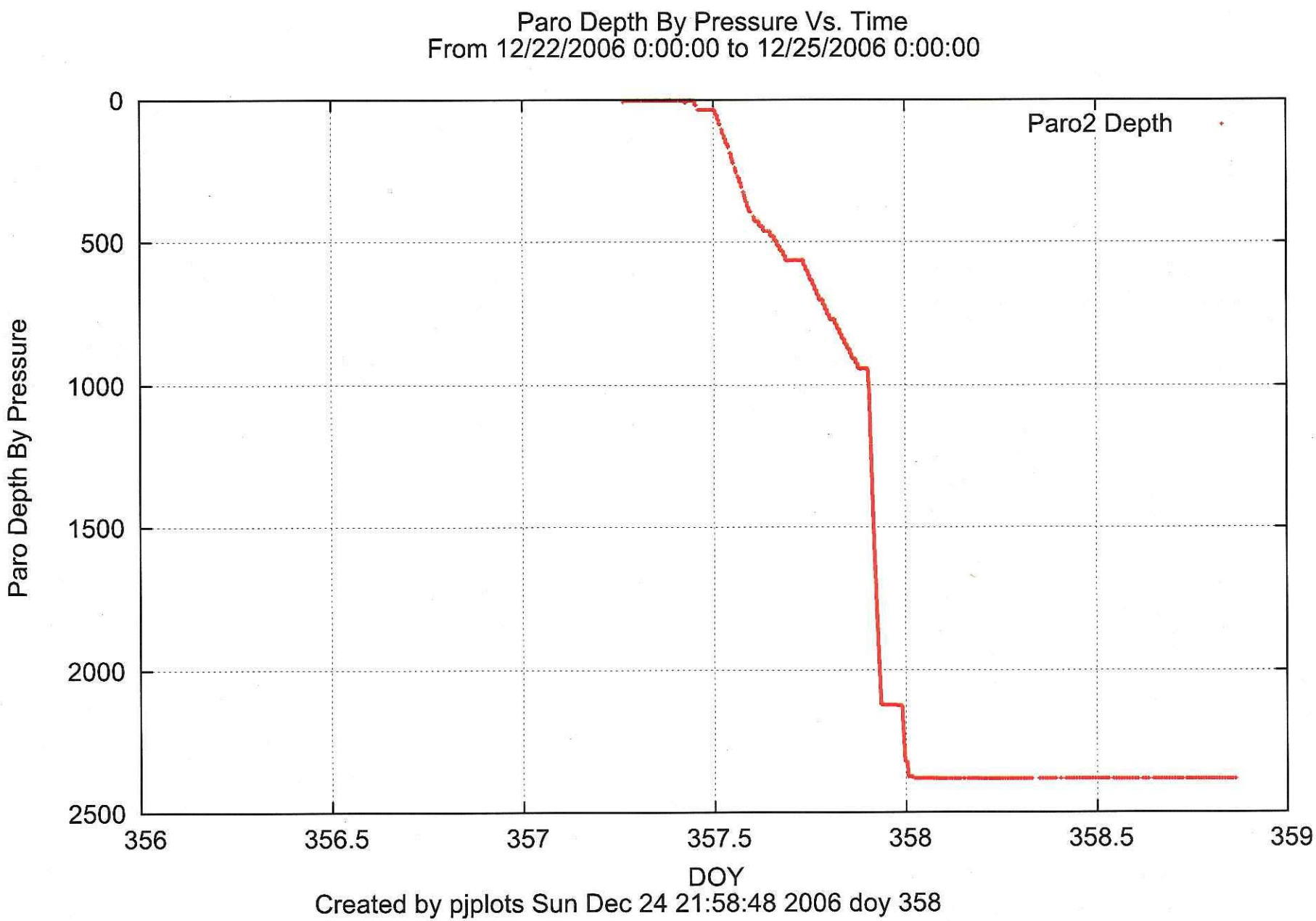
Raw Data For Above Plot

Modify Plot Time Range (Day Of Year)

Left: 356.000000 Right: 359.000000

Modify Y Axis

YRange: 0 to 2500


Paro Depth By Pressure Vs. Time
From 12/22/2006 0:00:00 to 12/25/2006 0:00:00
Paro2 Depth
Paro Depth By Pressure
0
500
1000
1500
2000
2500
356
356.5
357
357.5
358
358.5
359
DOY
Created by pjplots Sun Dec 24 21:58:48 2006 doy 358

Generating a 'Keller Depth By Pressure Vs. Time' Plot...

Note this may take a while, so please have patience!

Note: Files generated on this page are TEMPORARY, if you want the graphs,
it is your responsibily to save the file to your computer for future use!

Click on the plot when it appears for a PDF of that plot.

```
Failed to remove: 1166940601-kUHDvZ-TEMPD
Failed to remove: 1166938201-Xy3GvB-TEMPD
Failed to remove: 1166938801-gu36hx-TEMPD
Failed to remove: 1166940728-q3m9zr-TEMPD
Failed to remove: 1166938929-Qzy_67-TEMPD
Failed to remove: 1166938329-abAEFK-TEMPD
Extracting data...
Done Extracting...
```

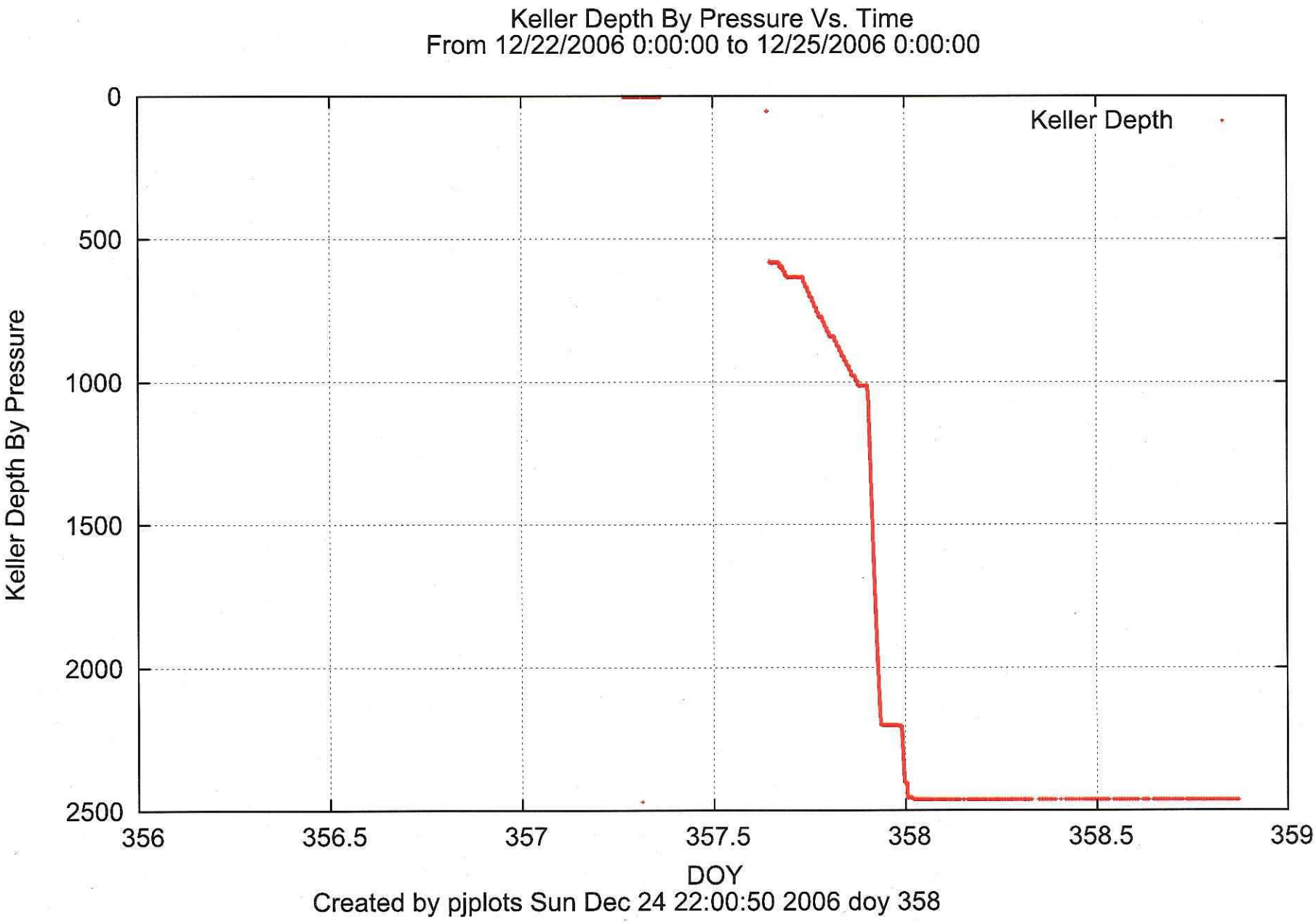
Raw Data For Above Plot

Modify Plot Time Range (Day Of Year)

Left: 356.000000 Right: 359.000000

Modify Y Axis

YRange: 0 to 2500


Keller Depth By Pressure Vs. Time
From 12/22/2006 0:00:00 to 12/25/2006 0:00:00
Keller Depth
Keller Depth By Pressure
0
500
1000
1500
2000
2500
356
356.5
357
357.5
358
358.5
359
DOY
Created by pjplots Sun Dec 24 22:00:50 2006 doy 358

```
Mod_python error: "PythonHandler mod_python.publisher"

Traceback (most recent call last):

  File "/usr/lib/python2.3/site-packages/mod_python/apache.py", line 299, in HandlerDispatch
    result = object(req)

  File "/usr/lib/python2.3/site-packages/mod_python/publisher.py", line 136, in handler
    result = util.apply_fs_data(object, req.form, req=req)

  File "/usr/lib/python2.3/site-packages/mod_python/util.py", line 361, in apply_fs_data
    return object(**args)

  File "/mnt/wangok/httpd/htdocs/ehwd/plots/static.py", line 264, in generateCannedHistorical
    startEpoch = epochUtils.yyyy_mm_dd_To_Epoch("%d_%d_%d" % (year,month,day))

  File "/mnt/wangok/httpd/htdocs/ehwd/plots/epochUtils.py", line 21, in yyyy_mm_dd_To_Epoch
    date_epoch=time.mktime(time.strptime(yyyy_mm_dd_time,'%Y_%m_%d'))

OverflowError: mktime argument out of range
```

Generating a 'Paro Depth By Pres, Thermistor Temp, Paro Temp, Freeze temp Vs. Time' Plot...

Note this may take a while, so please have patience!

Note: Files generated on this page are TEMPORARY, if you want the graphs,
it is your responsibily to save the file to your computer for future use!

Click on the plot when it appears for a PDF of that plot.

Failed to remove: 1166940601-kUHDvZ-TEMPD
Failed to remove: 1166938201-Xy3GvB-TEMPD
Failed to remove: 1166938801-gu36hx-TEMPD
Failed to remove: 1166940728-q3m9zr-TEMPD
Failed to remove: 1166938929-Qzy_67-TEMPD
Failed to remove: 1166938329-abAEFK-TEMPD
Extracting data...
Done Extracting...

Raw Data For Above Plot

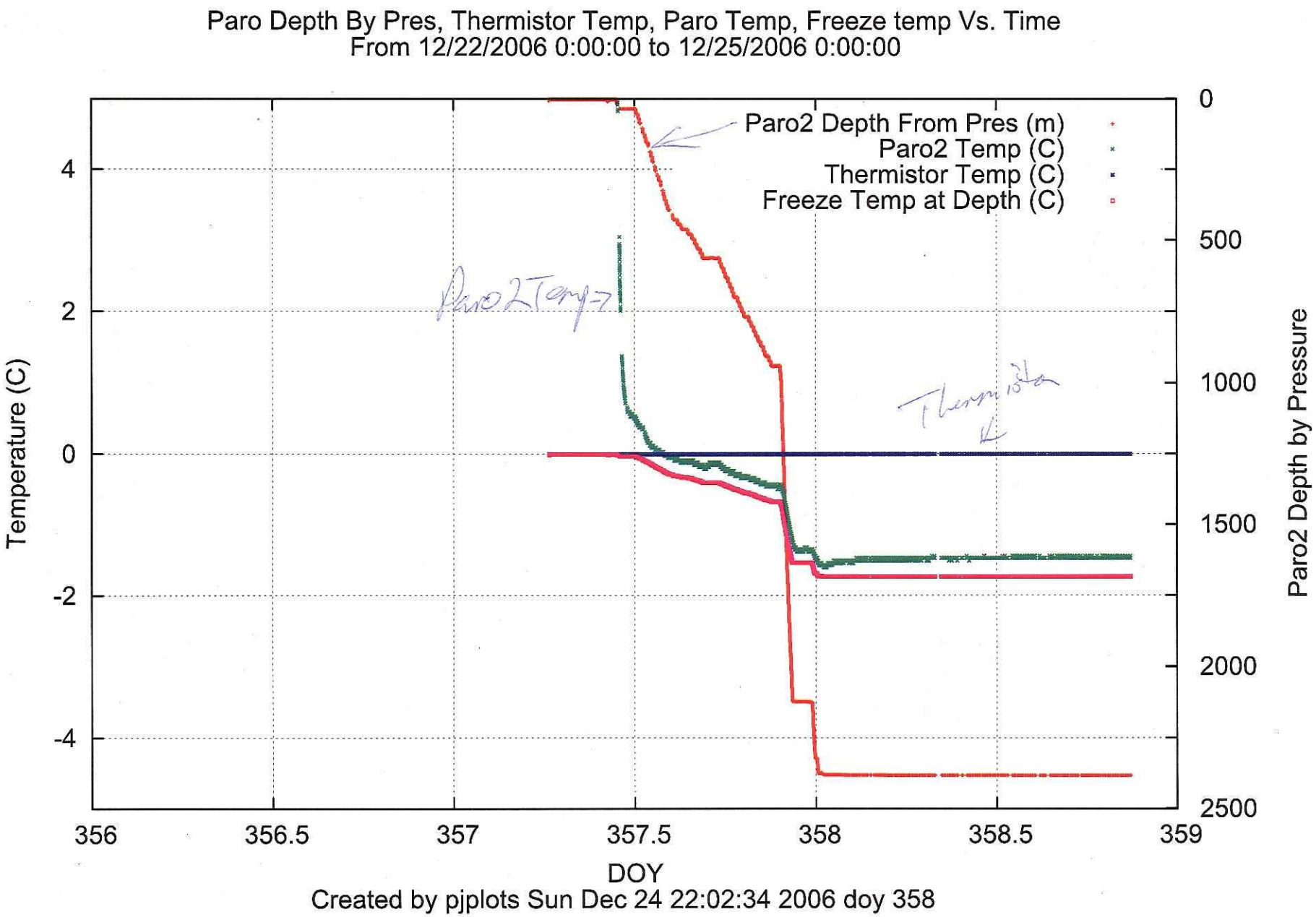
Modify Plot Time Range (Day Of Year)

Left: 356.000000 Right: 359.000000

Modify Y Axis

YRange: -5 to 5

Submit Clear


Paro Depth By Pres, Thermistor Temp, Paro Temp, Freeze temp Vs. Time
From 12/22/2006 0:00:00 to 12/25/2006 0:00:00
Paro2 Depth From Pres (m)
Paro2 Temp (C)
Thermistor Temp (C)
Freeze Temp at Depth (C)
Temperature (C)
Paro2 Depth by Pressure
DOY
Created by pjplots Sun Dec 24 22:02:34 2006 doy 358

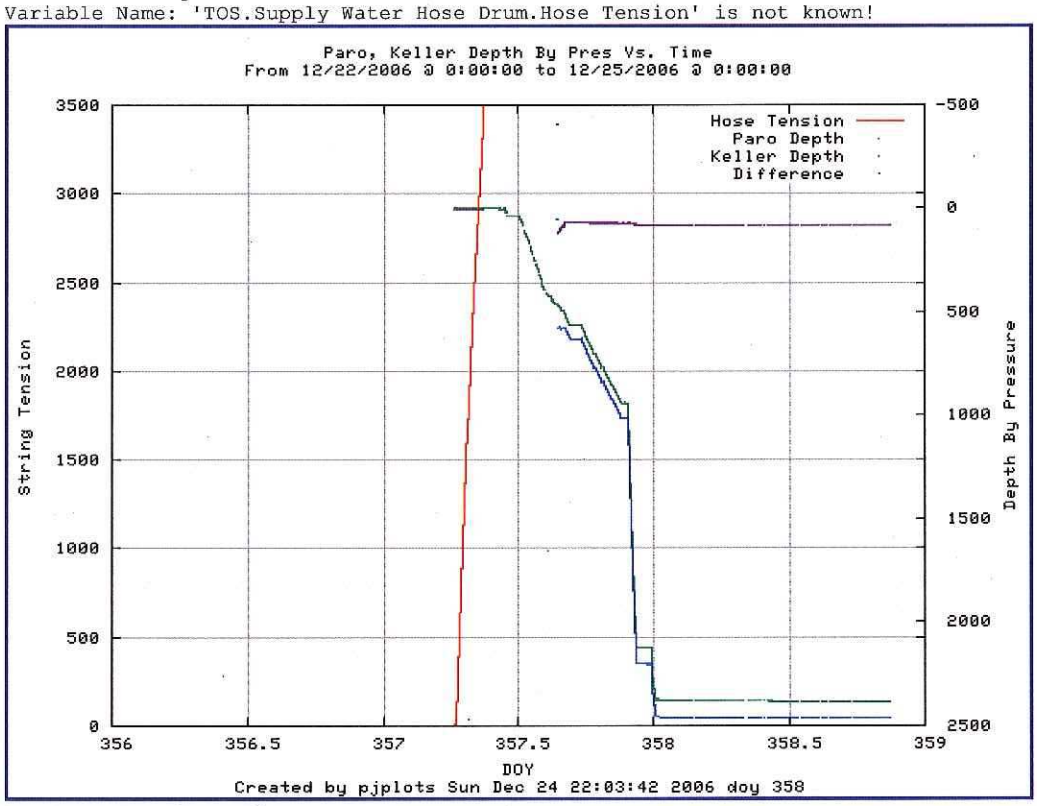
Generating a 'Paro, Keller Depth By Pres Vs. Time' Plot...

Note this may take a while, so please have patience!

Note: Files generated on this page are TEMPORARY, if you want the graphs,
it is your responsibily to save the file to your computer for future use!

Click on the plot when it appears for a PDF of that plot.

```
Failed to remove: 1166940601-kUHDvZ-TEMPD
Failed to remove: 1166938201-Xy3GvB-TEMPD
Failed to remove: 1166938801-gu36hx-TEMPD
Failed to remove: 1166940728-q3m9zr-TEMPD
Failed to remove: 1166938929-Qzy_67-TEMPD
Failed to remove: 1166938329-abAEFK-TEMPD
Extracting data...
Done Extracting...
Variable Name: 'TOS.Supply Water Hose Drum.Hose Tension' is not known!
```



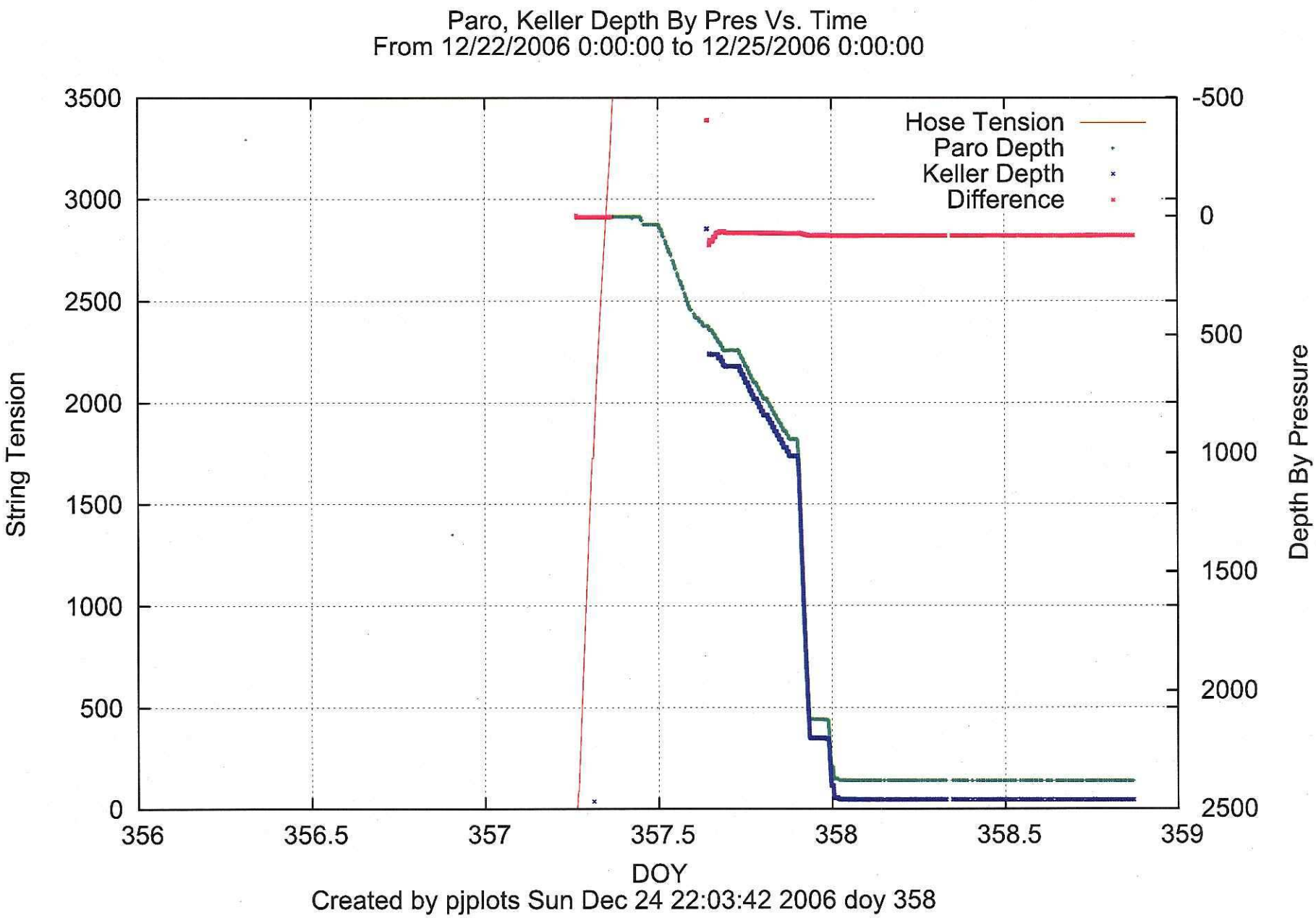
Raw Data For Above Plot

Modify Plot Time Range (Day Of Year)

Left: 356.000000 Right: 359.000000

Modify Y Axis

YRange: 0 to 3500


Paro, Keller Depth By Pres Vs. Time
From 12/22/2006 0:00:00 to 12/25/2006 0:00:00
Hose Tension
Paro Depth
Keller Depth
Difference
String Tension
Depth By Pressure
DOY
3500
3000
2500
2000
1500
1000
500
0
-500
0
500
1000
1500
2000
2500
356
356.5
357
357.5
358
358.5
359
Created by pjplots Sun Dec 24 22:03:42 2006 doy 358

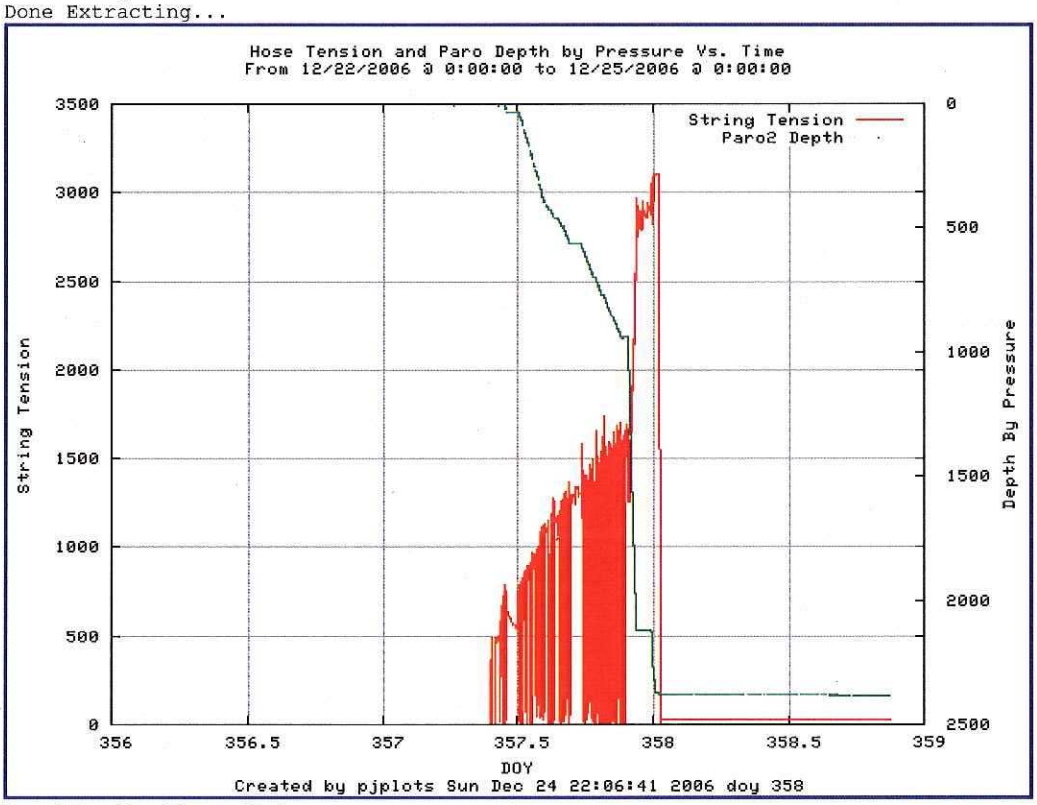
Generating a 'Hose Tension and Paro Depth by Pressure Vs. Time' Plot...

Note this may take a while, so please have patience!

Note: Files generated on this page are TEMPORARY, if you want the graphs,
it is your responsibily to save the file to your computer for future use!

Click on the plot when it appears for a PDF of that plot.

```
Failed to remove: 1166940601-kUHDvZ-TEMPD
Failed to remove: 1166938201-Xy3GvB-TEMPD
Failed to remove: 1166938801-gu36hx-TEMPD
Failed to remove: 1166940728-q3m9zr-TEMPD
Failed to remove: 1166938929-Qzy_67-TEMPD
Failed to remove: 1166938329-abAEFK-TEMPD
Extracting data...
Done Extracting...
```



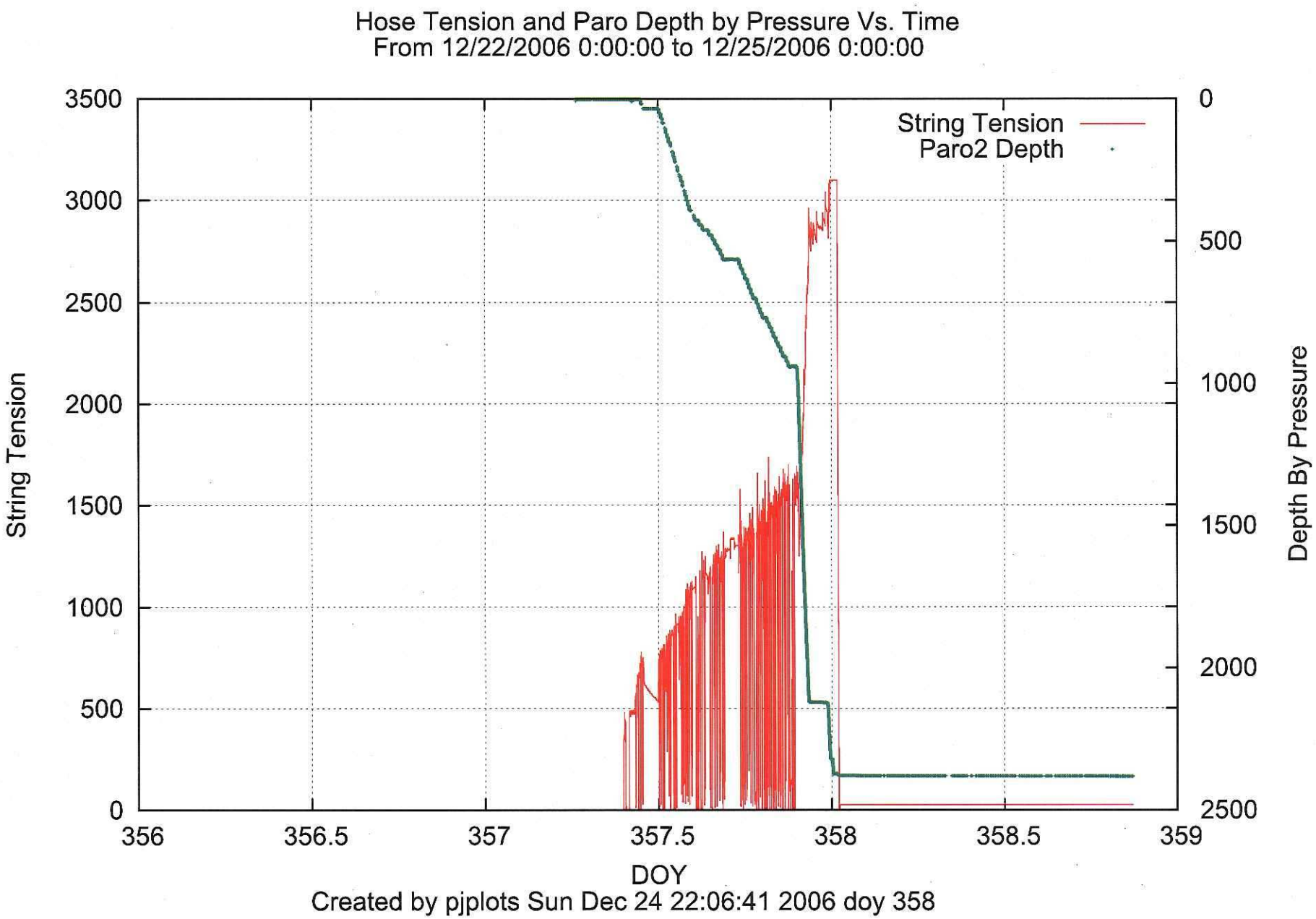
Raw Data For Above Plot

Modify Plot Time Range (Day Of Year)

Left: 356.000000 Right: 359.000000

Modify Y Axis

YRange: 0 to 3500


Hose Tension and Paro Depth by Pressure Vs. Time
From 12/22/2006 0:00:00 to 12/25/2006 0:00:00
String Tension
Paro2 Depth
String Tension
Depth By Pressure
DOY
3500
3000
2500
2000
1500
1000
500
0
0
500
1000
1500
2000
2500
356
356.5
357
357.5
358
358.5
359
Created by pjplots Sun Dec 24 22:06:41 2006 doy 358

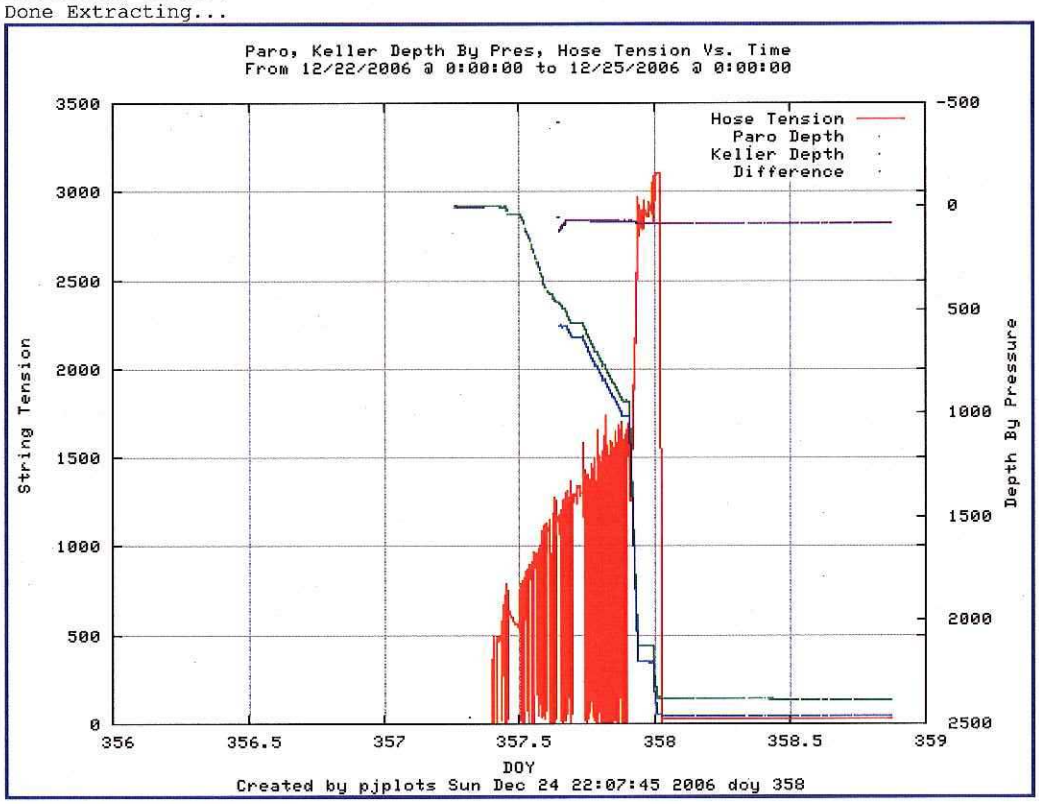
Generating a 'Paro, Keller Depth By Pres, Hose Tension Vs. Time' Plot...

Note this may take a while, so please have patience!

Note: Files generated on this page are TEMPORARY, if you want the graphs,
it is your responsibily to save the file to your computer for future use!

Click on the plot when it appears for a PDF of that plot.

```
Failed to remove: 1166940601-kUHDvZ-TEMPD
Failed to remove: 1166938201-Xy3GvB-TEMPD
Failed to remove: 1166938801-gu36hx-TEMPD
Failed to remove: 1166940728-q3m9zr-TEMPD
Failed to remove: 1166938929-Qzy_67-TEMPD
Failed to remove: 1166938329-abAEFK-TEMPD
Extracting data...
Done Extracting...
```



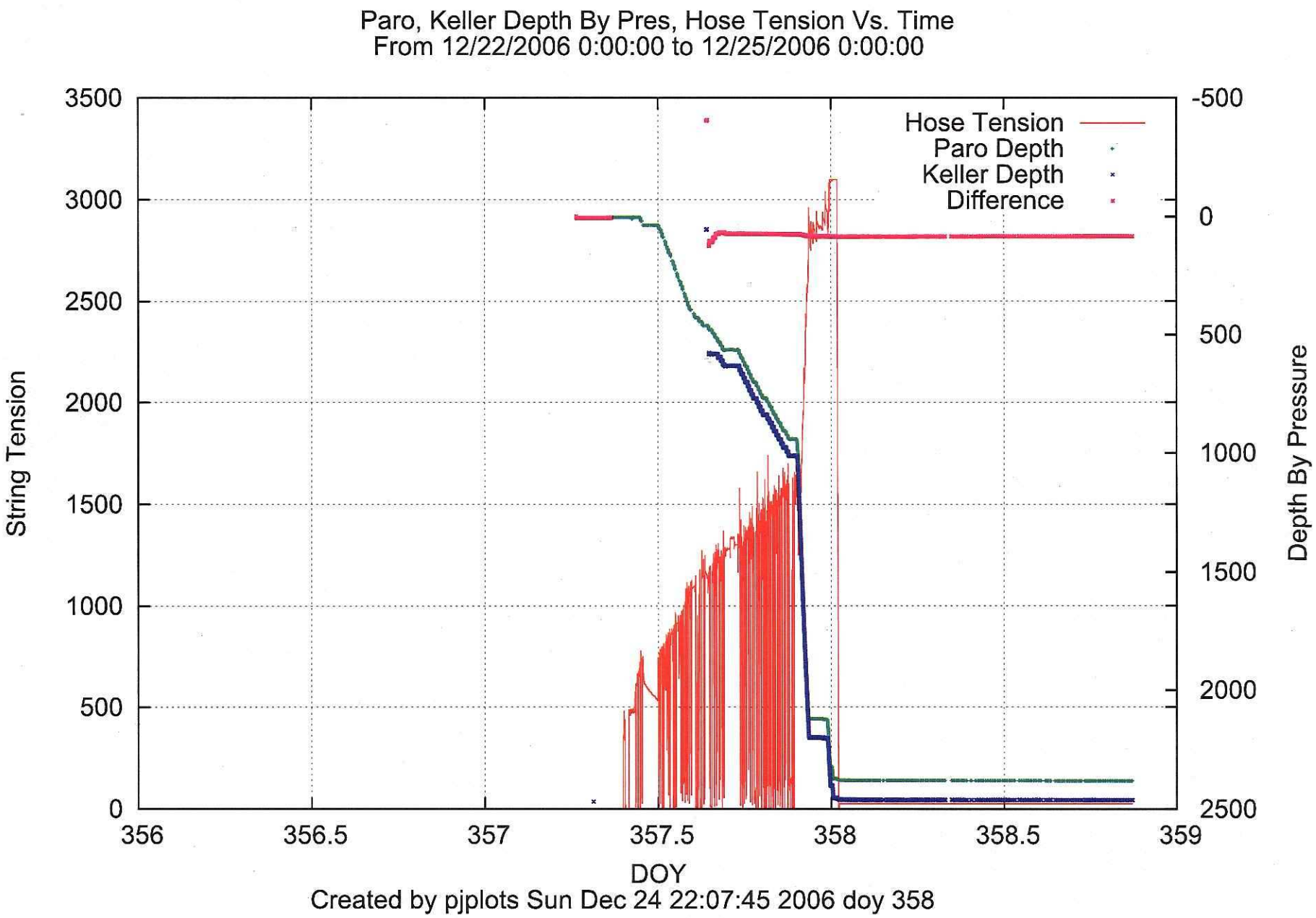
Raw Data For Above Plot

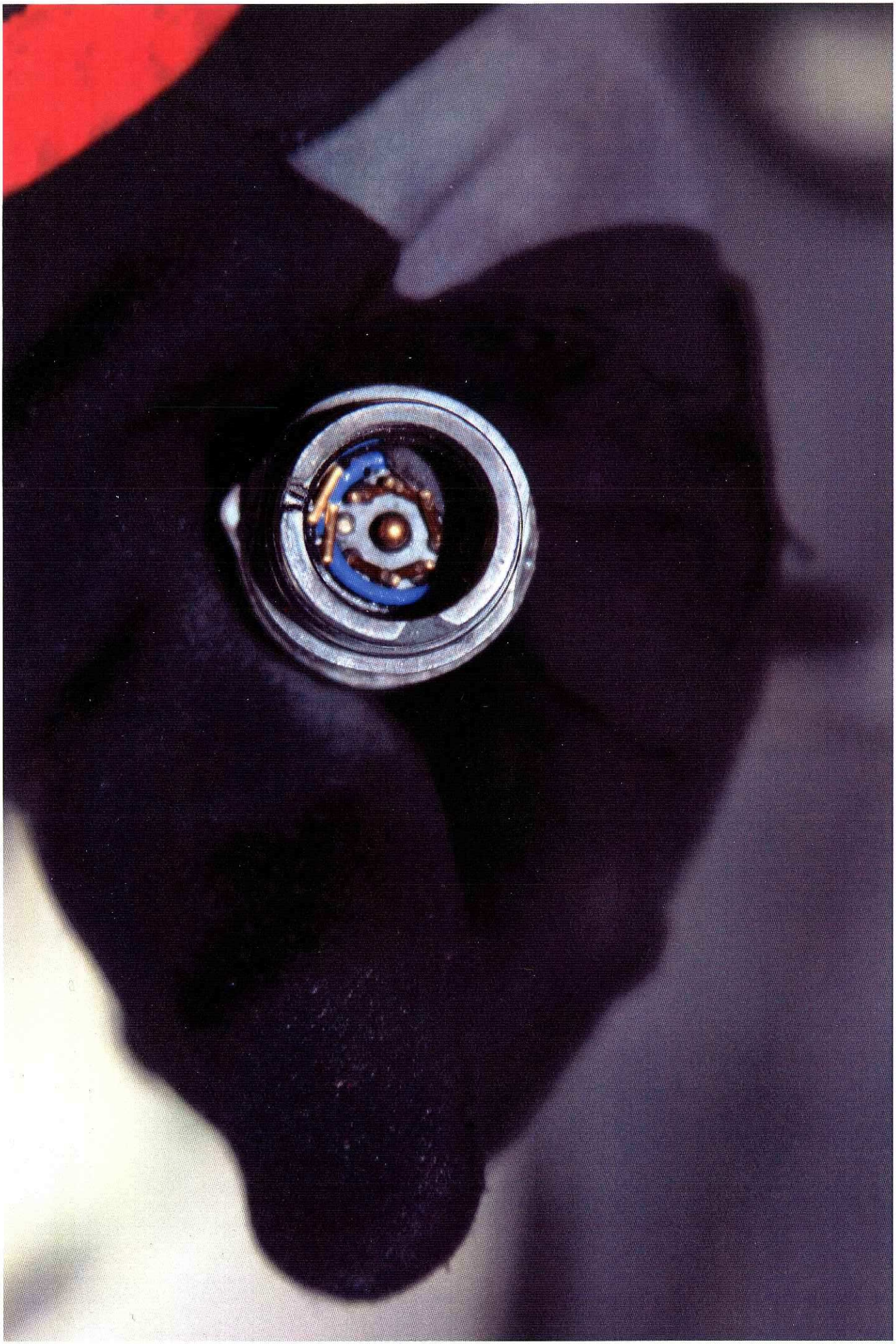
Modify Plot Time Range (Day Of Year)

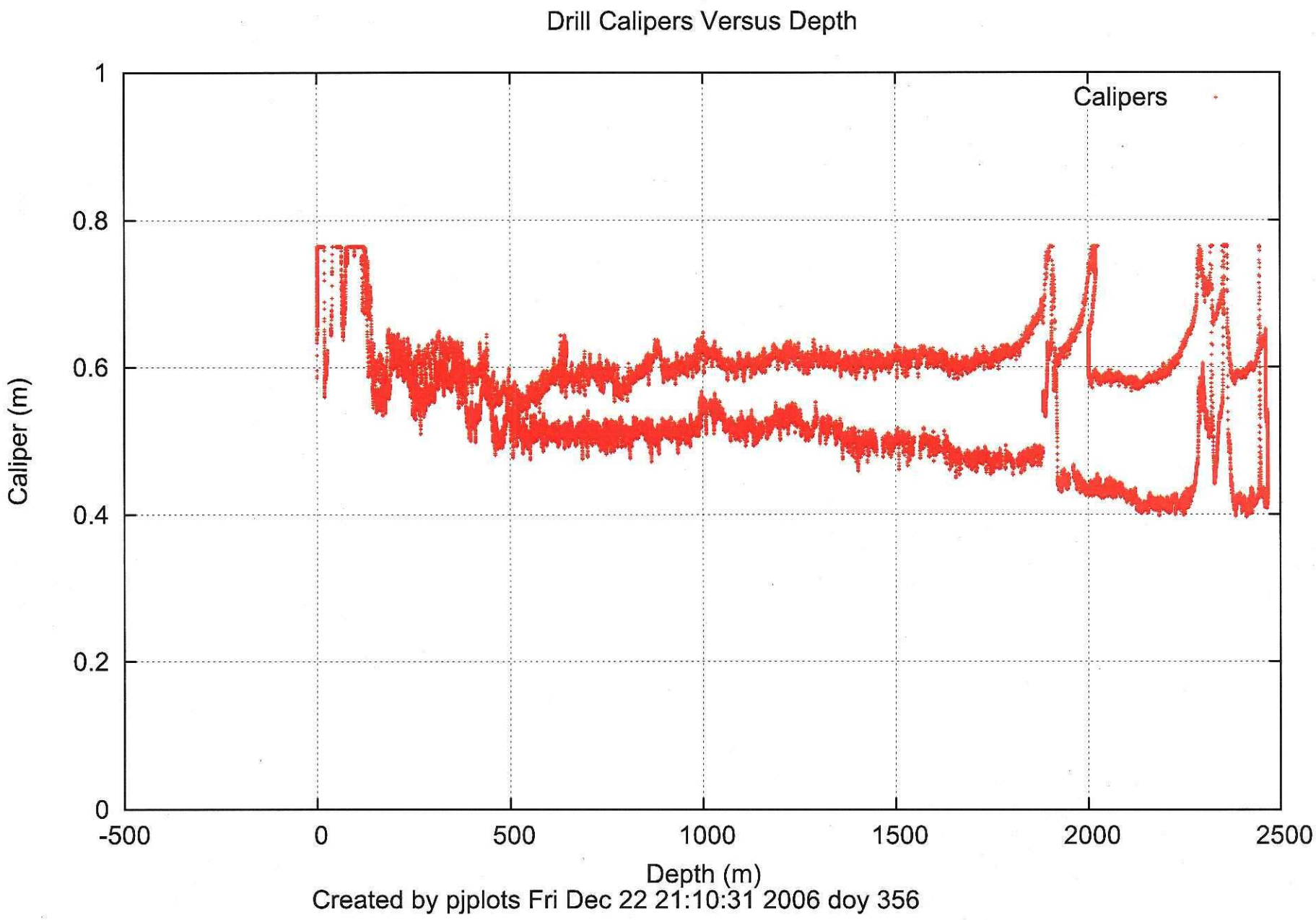
Left: 356.000000 Right: 359.000000

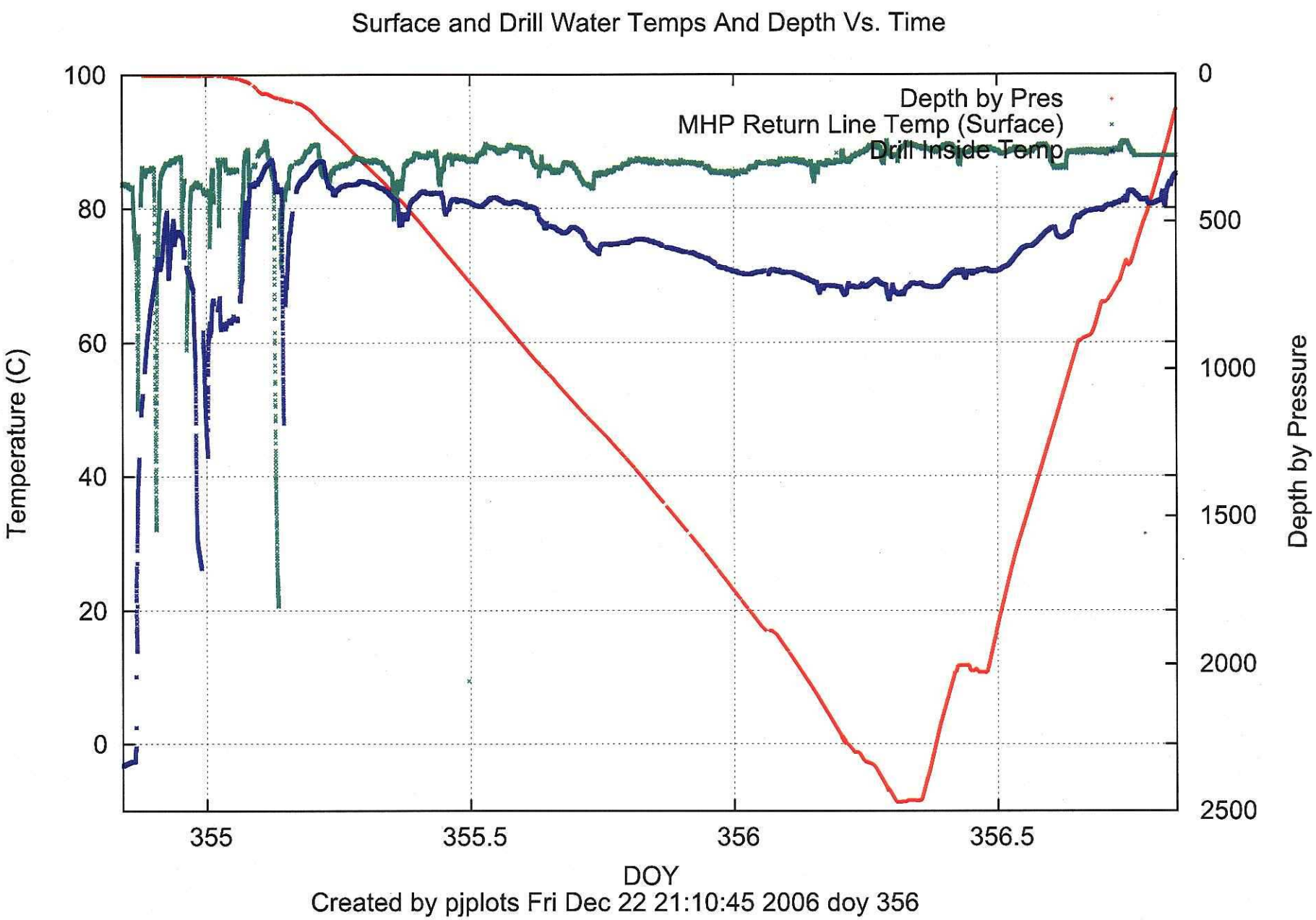
Modify Y Axis

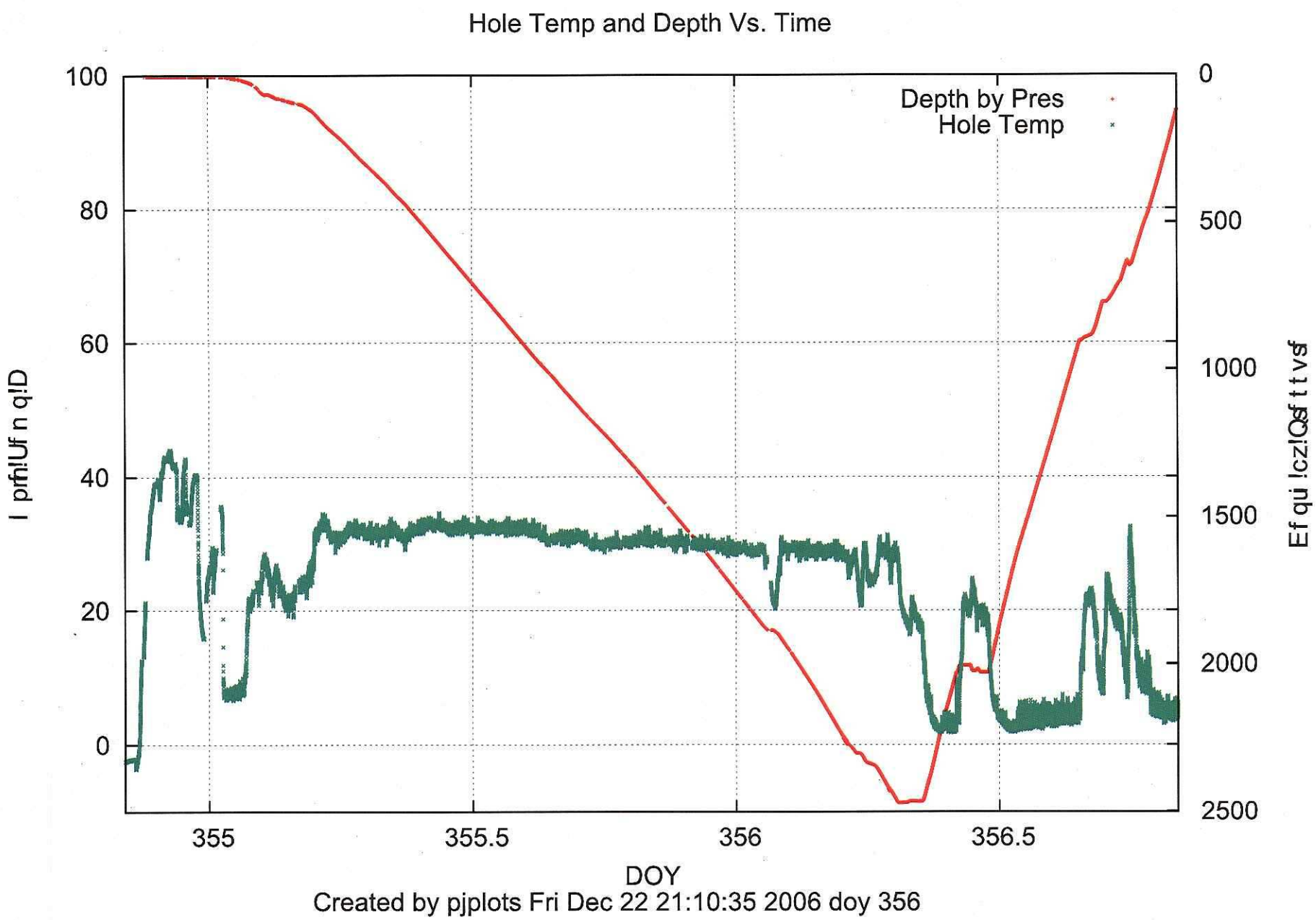
YRange: 0 to 3500

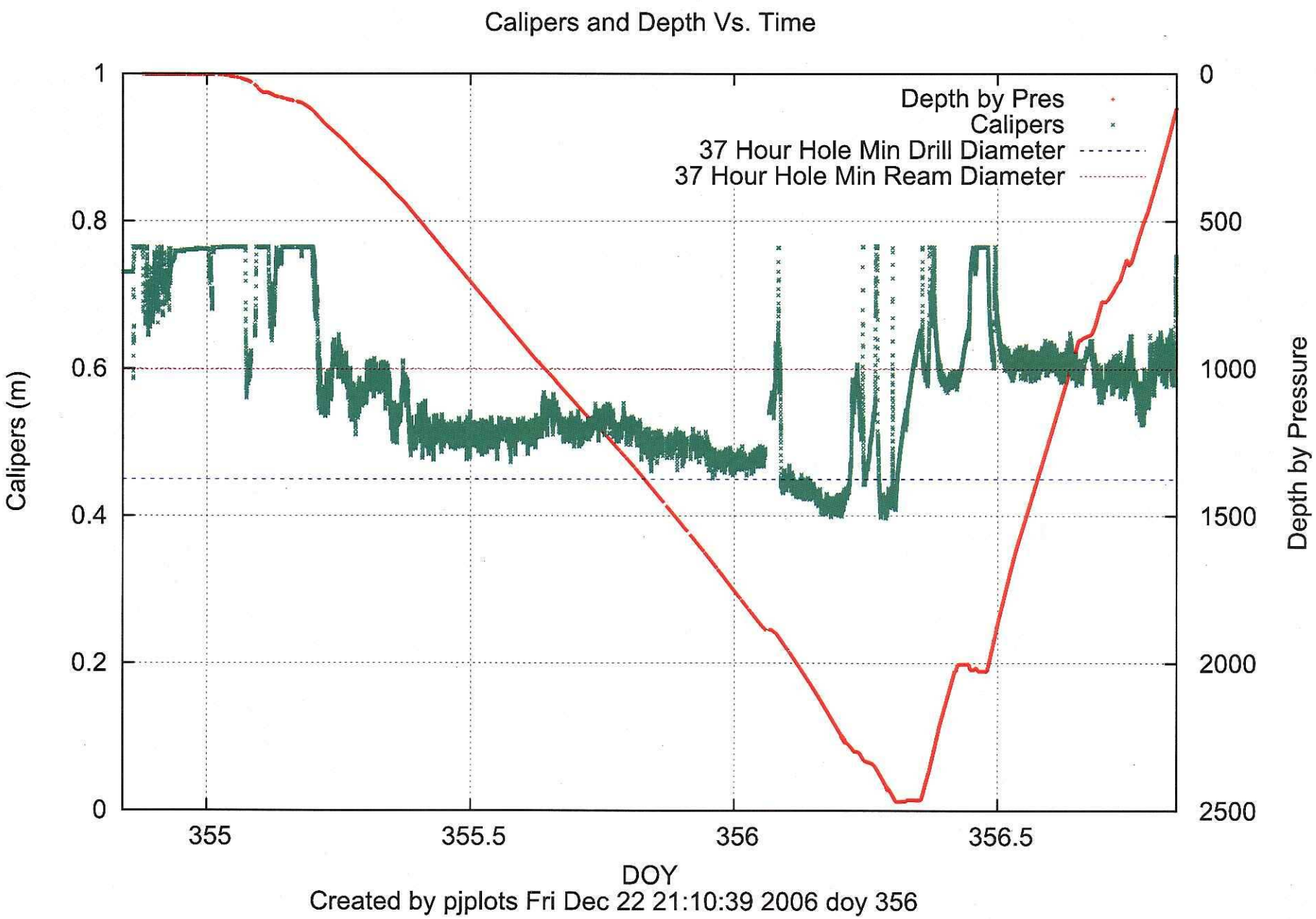

Paro, Keller Depth By Pres, Hose Tension Vs. Time
From 12/22/2006 0:00:00 to 12/25/2006 0:00:00
Hose Tension
Paro Depth
Keller Depth
Difference
String Tension
Depth By Pressure
DOY
3500
3000
2500
2000
1500
1000
500
0
-500
0
500
1000
1500
2000
2500
356
356.5
357
357.5
358
358.5
359
Created by pjplots Sun Dec 24 22:07:45 2006 doy 358

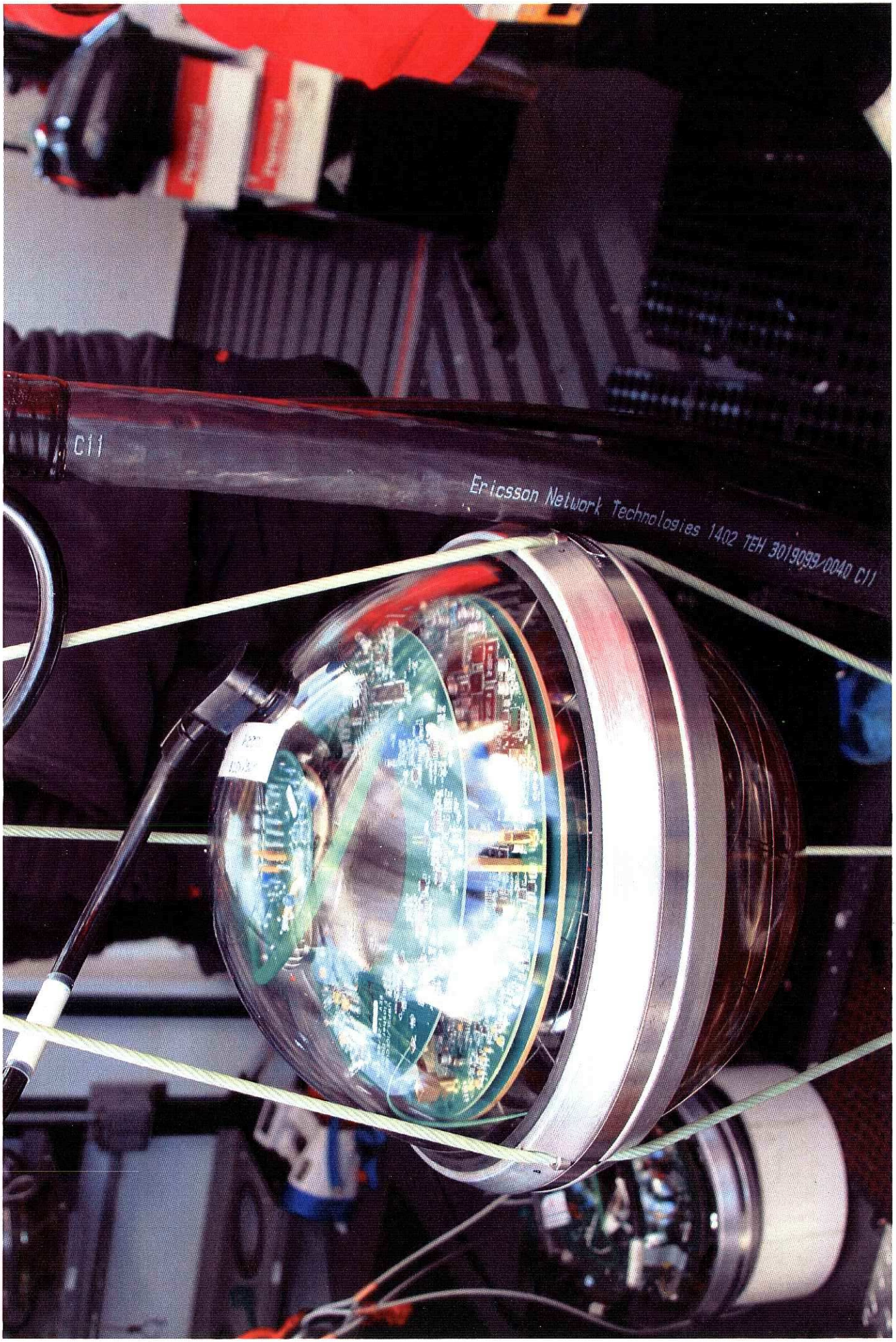



Drill Calipers Versus Depth
Calipers
Caliper (m)
Depth (m)
1
0.8
0.6
0.4
0.2
0
-500
0
500
1000
1500
2000
2500
Created by pjplots Fri Dec 22 21:10:31 2006 doy 356


Surface and Drill Water Temps And Depth Vs. Time
Depth by Pres
MHP Return Line Temp (Surface)
Drill Inside Temp
Temperature (C)
Depth by Pressure
DOY
100
80
60
40
20
0
0
500
1000
1500
2000
2500
355
355.5
356
356.5
Created by pjplots Fri Dec 22 21:10:45 2006 doy 356


Hole Temp and Depth Vs. Time
Depth by Pres
Hole Temp
100
80
60
40
20
0
0
500
1000
1500
2000
2500
355
355.5
356
356.5
DOY
Created by pjplots Fri Dec 22 21:10:35 2006 doy 356

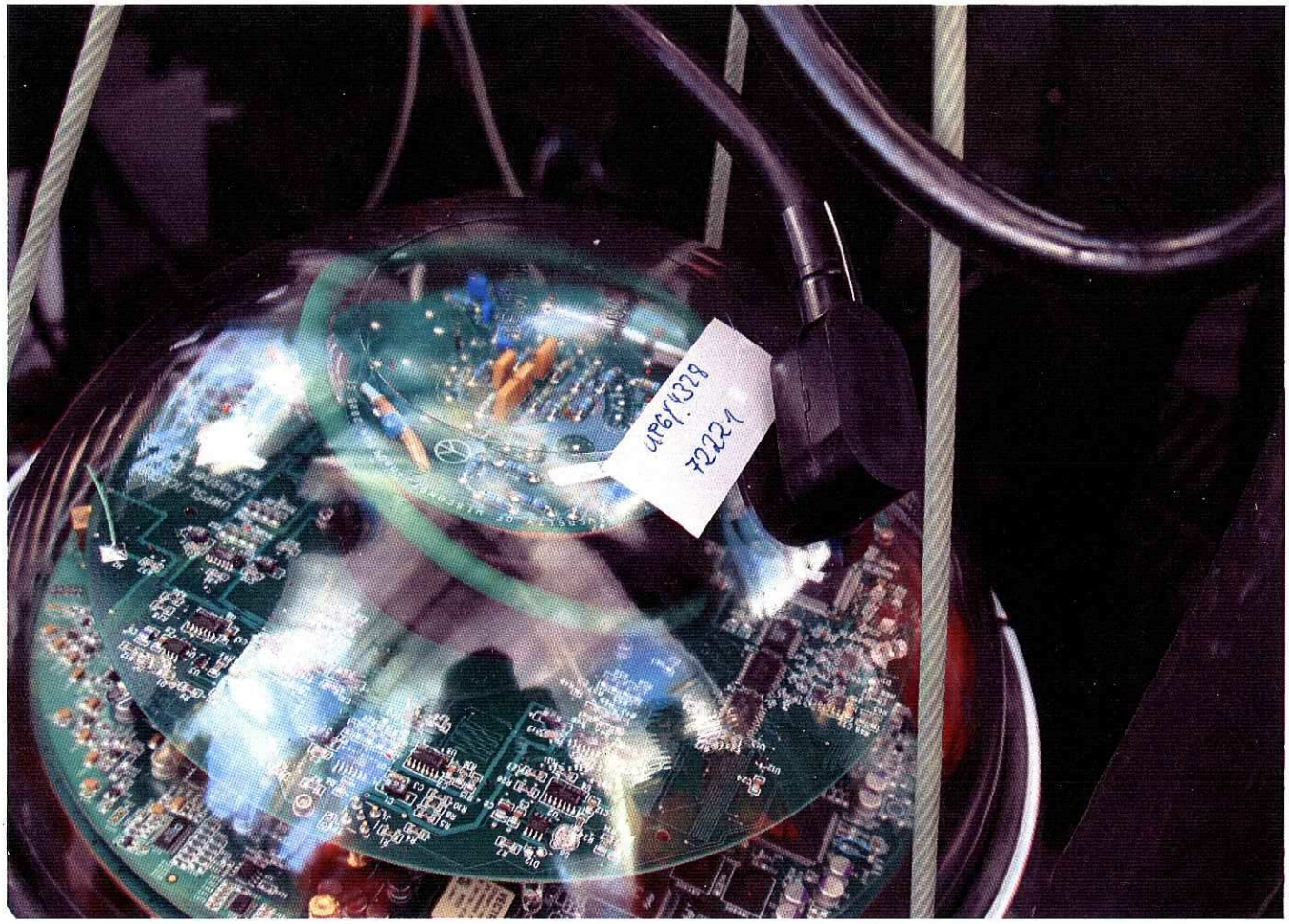

Calipers and Depth Vs. Time
Depth by Pres
Calipers
37 Hour Hole Min Drill Diameter
37 Hour Hole Min Ream Diameter
Calipers (m)
Depth by Pressure
DOY
1
0.8
0.6
0.4
0.2
0
0
500
1000
1500
2000
2500
355
355.5
356
356.5
Created by pjplots Fri Dec 22 21:10:39 2006 doy 356


C11
Ericsson Network Technologies 1402 TEH 3019099/0040 C11

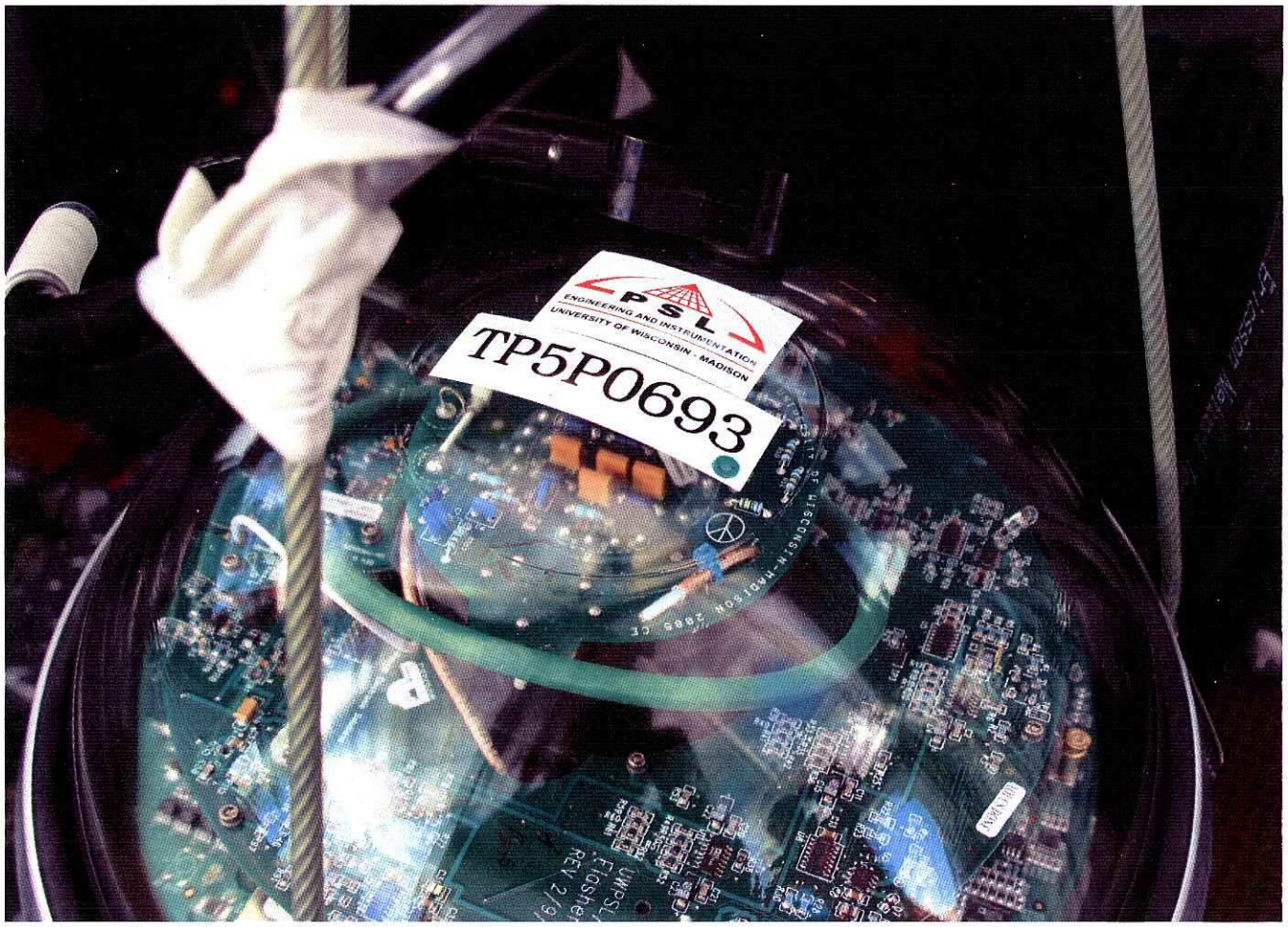
Name	DOMID	Comments	Position	
	UP5Y0086		1	Corrected
Virology	TP5P0751	Droopy	2	Important !!!!
Ometeotl	UP6Y4348		3	Important !!!!
Teratology	TP5P0755	Droopy	4	
Tzinteotl	UP6Y4338		5	
Werewolf	TP5P0627	Droopy	6	
Impala	UP4P0338	Droopy	7	
Jaguarnacht	TP6Y4229		8	
Avatara	UP6Y4388		9	
Krischna	TP6Y4261		10	
Utah	UP5P0960	Droopy	11	
Parvati	TP6Y4371		12	
Rukmini	UP6Y4372		13	
Rama	TP6Y4379		14	
Raktavija	UP6Y4414		15	
Tohil	TP6Y4293		16	
	UP6Y4230		17?/?	Not on list
Whale	TP4P0319	Droopy	18	
Ab_Kin_Xoc	UP6Y4328		19	
Scoleciphobia	TP5P0693	Droopy	20	
Bryology	UP5P0784	Droopy	21	
Zebra	TP4P0329	Droopy	22	
Hobbit	UP5P0610	Droopy	23	
Ah_Kinchil	TP6Y4323		24	
Quetzalcoatl	UP6Y4358		25	
	TP6Y4445	Instead of TP6Y4287	26	
Hou_I	UP6Y4470		27	
Ahau_Kin	TP6Y4333		28	
Ah_Mucen_Cab	UP6Y4318		29	
Ixtab	TP6Y4285		30	
Ferrari_Berlinetta	UP5Y0086	Droopy	~~31~~ 1	Corrected
Hui_Lu	TP6Y4353		32	
New_York	UP5P1032	Droopy	33	
	TP6Y4461	Instead of TP6Y4331	34?	
Craniology	UP5P0820	Droopy	35	
	TP6Y4275	Instead of TP5P0579	36	
Agliophobia	UP5P0706	Droopy	37	
Huashan	TP6Y4471		38	
Kosmikophobia	UP5P0696	Droopy	39	
Weldebreu	TP4Y0039	Droopy	40	
Maine	UP5P0966	Droopy	41	
Thermophobia	TP5P0583	Droopy	42	
Kentucky	UP5P0932	Droopy	43	
Rat	TP4P0269	Droopy	44	
Alpaca	UP4P0240	Droopy	45	

Tallahassee	TP5P0883	Droopy	46	
Idaho	UP5P0950	Droopy	47	
Tomophobia	TP5P0635	Droopy	48	
Dentophobia	UP5P0646	Droopy	49	
Denver	TP5P0873	Droopy	50	
Algophobia	UP5P0640	Droopy	51	
Yali	TP5P0563	Droopy	52	
Llama	UP4P0354	Droopy	53	
Romulus	AP4P0059	FAT 1 - deploy in position 51-60 only ! ice-top Droopy	54	Important !!!!
Axiology	UP5P0766	Droopy	55	
Tekka	AP4P0064	FAT 1 - deploy in position 51-60 only ! ice-top Droopy	56	
Chubasco	UP5P0536	Droopy	57	
Poki	TP5P0567	Droopy	58	
Archeology	UP5P0750	Droopy	59	
Lemon	TP4P0079	FAT 1 - deploy in position 51-60 only ! Droopy	60	
Mushroom	TP4P0209	Droopy		
Apotemnophilia	UP5P0860	Droopy		
~~Ajbit~~	~~UP6Y4286~~		3 / Corrected	
Draupadi	UP6Y4290			
Cang Jie	UP6Y4456			

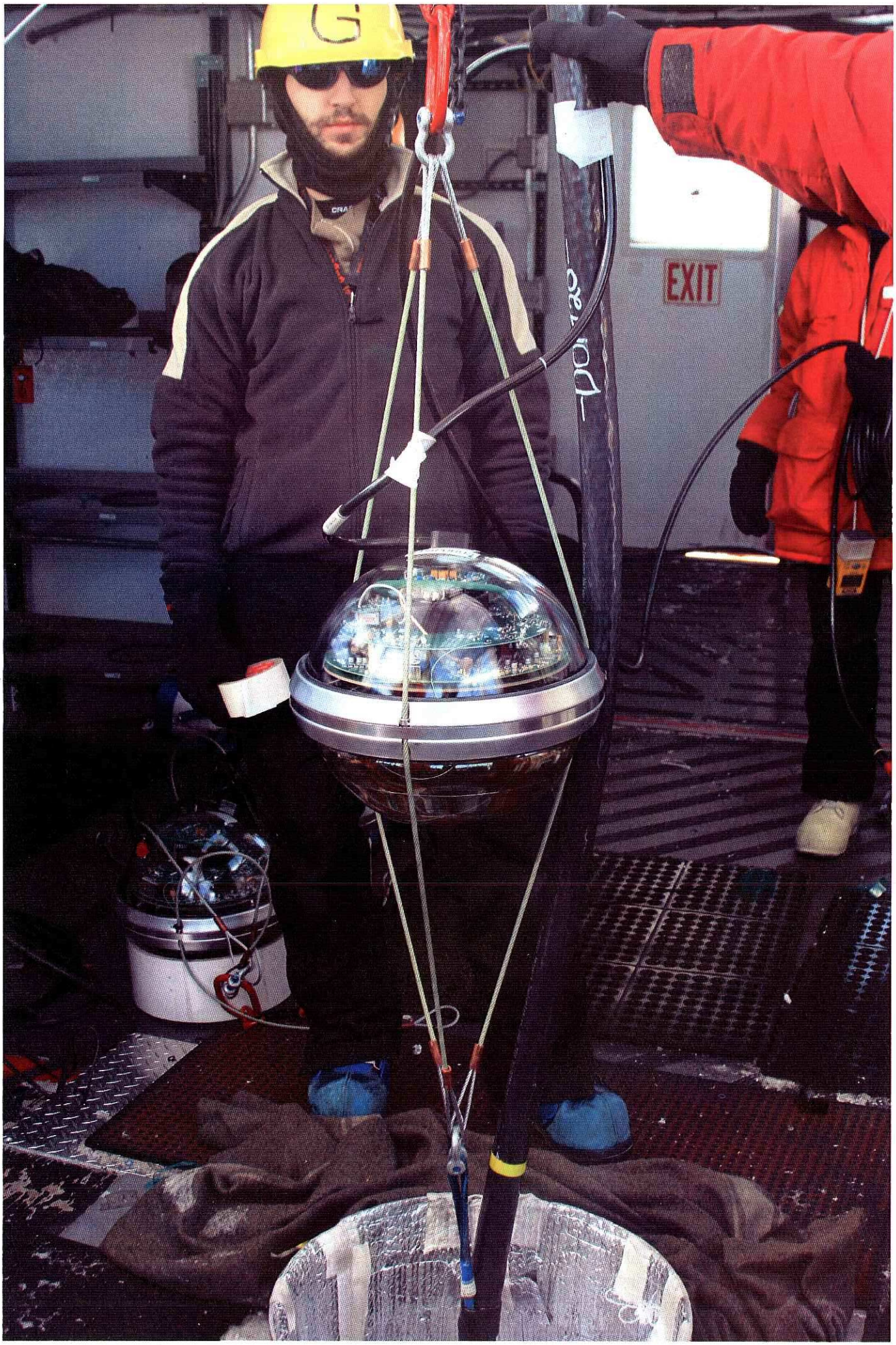
#19



#20



Cell Board ID


G
EXIT