

```
#####
# LMG calibration data file for sensors
#
# NOTE:
# 1. In order for these calibrations to take affect, uwint and rv_tsg must
# be restarted. (Remember, rv_tsg has parameters.)
#
# 2. Please enter serial numbers for all sensors
#
# 3. Remember, when you check this file back into RCS, use the
# -u option. It MUST remain in /usr/local/packages/rvdas/config
#
# 4. The TSG calibration coefficients must be placed last in this file.
#
#
#####
# Ship - LMG or NBP
SHIP LMG
#
#####
#
# Cruise ID (i.e. LMG0505)
cruiseID LMG0712
#
#####
# LM Gould radiometer calibrations
# PSP ser#:31701F3 cal date: 25 Apr, 2007
# PIR ser#:32031F3 cal date: 03 Apr. 2007
# Instrument uVolts/W/m^2
PSP 8.51
PIR 3.91
#
#####
# Instrument Vdark Calib_Factor (ser#:6393, cal date: 1/16/2006
#instrument, Probe Dark(V), Calib Factor (Dry) (V/uE/cm^2sec)
# Dark value measured in situ 05 Jan, 2007
PAR -0.0050988 5.63
#
#####
# Transmisometer (ser#: CST-553DR, cal date: 30Jan06)
# Vdark Vref Path
TRAN 0.060 4.803 0.25
#
#
#####
#
```

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#
# LMG winches
#
# Scale conversion information for the science winches on the LMG.
# Sheave measurements made on 01/01/00.
# Wire Pull tests done on dates indicated
#
# Dush 4 winch      sheave diam=
# 9/16" wire      wire diam =
#      total circumference=
#      magnets      =
#      Payout Scale factor=
#      Tension Scale Factor=
#      operation limit=  lb
#
# Dush xx winch      sheave diam= 28.125  .714m
# .680" wire      wire diam = 0.680  .017m
#      total circumference= 90.493" 2.297m
#      magnets      = 24
#      Payout Scale factor= 3.77  0.096m
#      Tension Scale Factor= 180
#      operation limit= 20,150 lb
#
#
# meters out = mout * a
# speed = speed * c
# tension = (tension * b) - e
# operation limit = d
#      a      b      c      d      e
LDU4  1      0.465  1  20718  0
LDU5  1      1      1  20150  0
LD11  1      1      1  5980   0
LWN1  1      1      1  5980   0
#SWNC -0.1    200    1.67  20718  -800
#PWNC 0.1     180    1.67  20150  0
#BWNC 0.1     62.5   1.67  5980   437.5
#WWNC -0.1     60     -1.67  5980   0
#
#

***** Remote Temperature Probe SN #4015 *****
***** Calibration Date of 11-May-07 *****
# Note calibration values that are commented out below show those used
# for SBE 21 S/N 1577 which was calibrated on 20 May 2007 and was in use
# at the beginning of the cruise. Due to suspicion of faulty remote temp

```

```
# readings it was swapped out mid-cruise during the period of seawater
# sampling inactivity at Palmer Station
# external temperature calibration factors
%EXTERNAL TEMPERATURE%
g 0.00436651867
h 0.000627057431
i 0.0000215854061
j 0.00000173345987
f0 1000.0
*
```

```
#####
#####
#### Note, TSG calibrations must be last in this file #####
#### Do not change the formating, only the values. Thanks #####
#####
##
***** Calibration factors for SBE 21 S/N 1789 *****
***** Calibration Date of 25 Jan 2006 *****
# Note calibration values that are commented out below show those used
# for SBE 21 S/N 1577 which was calibrated on 20 May 2007 and was in use
# at the beginning of the cruise. Due to suspicion of faulty remote temp
# readings it was swapped out mid-cruise during the period of seawater
# sampling inactivity at Palmer Station
#
# currently in use
```

```
# Temperture calibration factors
%TEMPERATURE%
# g 0.00420097598
# h 0.000591574677
# i 0.00000218319415
# j -0.00000209040478
# f0 1000.000
g 0.00413343557
h 0.000615389618
i 0.0000197232448
j 0.00000135946639
f0 1000.000
*
```

```
# Conductivity calibration factors
%CONDUCTIVITY%
# g -3.93320202
# h 0.467907879
```

```
# i 0.00171904247
# j -0.0000536817820
# p -0.00000000957
# t 0.00000325
g -3.99168762 3.93320202
h 0.471887572 467907879
i -0.000550516050 00171904247
j 0.0000513922485 536817820
p -0.00000000957
t 0.00000325
*
#
#
```