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#####
# 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 LMG0505
#
#####
# LM Gould radiometer calibrations
# PSP ser#:31701F3 cal date: 22 Jun, 2004
# PIR ser#:32021F3 cal date: 23 Dec, 2004
# Instrument      uVolts/W/m^2
PSP    8.43
PIR    3.88
#
#####
# Instrument Vdark Calib_Factor (ser#:6393, cal date: 12/12/03)
#instrument, Probe Dark(V), Calib Factor (Dry) (V/uE/cm^2sec)
PAR    0.0007  6.05
#
#####
# Transmisometer (ser#: CST-830DR, cal date: 12/21/04)
# Vdark Vref Path
TRAN   0.061   4.692  0.25
#
#
#####
# 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=

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#           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       1       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
#
#
#####
#####
####  Note, TSG calibrations must be last in this file #####
####  Do not change the formatting, only the values.  Thanks #####
#####
##
***** Calibration factors for SBE 21 S/N 1789 *****
***** Calibration Date of 17 Dec 04 *****
# currently in use
# Temperture calibration factors
%TEMPERTURE%
g 0.00422574035
h 0.000607323969
i 0.00000362984038
j -0.00000205852482
fo 1000.000
*

# conductivity calibration factors
%CONDUCTIVITY%
g -4.04831668
h 0.483630652
i 0.000984011200
j -0.0000180025877
p -0.0000000957
t 0.00000325

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*
#***** Remote Temperature Probe SN #1619 *****
#***** Calibration Date of 30 Dec 04 *****
# external temperature calibration factors
%EXTERNAL TEMPERATURE%
g 0.00480786598
h 0.000683289494
i 0.0000308716615
j 0.00000287215854
fo 1000.000
*
#
#
#
```