

```
#####  
#  
# NBP calibration data file for sensors  
#  
# NOTE:  
# 1. In order for these calibrations to take affect, uwint must  
# be restarted.  
#  
# 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  
#  
# Revised August 10, 2000 K. Gavahan  
# - Initial revision.  
#  
# Revised...  
#  
#####  
#  
# Ship - LMG or NBP  
#  
SHIP NBP  
#  
#####  
#  
# Science specific information  
#  
VESSEL: NBP  
TITLE: NBP0101  
NUMBER: NBP0101  
START_DATE: 01/29/01  
END_DATE: 03/29/01  
CHIEF_SCIENTIST: Leventer  
PARTICIPATING SCIENTISTS:  
#  
#-----  
# Data specific information  
#  
# Base file name for data files  
BASE_FILE: NBP0101  
#  
# NAVIGATION LOGGERS - loggers and data directory  
NAV_LOGGERS: l_3df,l_furuno,l_gyr,l_ngl,l_trax,l_pcode,l_trx3,l_tgps  
DATA_LOC_NAV: /data/not-public/logger/nav  
#  
# UNDERWAY LOGGERS - loggers and data directory  
UW_LOGGERS:  
l_met,l_sim,l_tsg,l_bar,l_grv,l_gen,l_grd,l_bathy,l_vru1,l_oyo2,l_grd,l_ltsg,l_l  
met,l_lsim  
DATA_LOC_UWAY: /data/not-public/logger/uw  
#  
NETWORK: science  
#  
#
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LOGGER_LOC: /usr/local/packages/rvdas/bin
#
#
#####
#
# Geophysical information
#
# The value for YEAR can be obtained by running decimal_year.
# It should be updated everytime the gravity offset is updated.
#
# Gravity offset information
#
CRUISE_ID: NBP0101
GRAV_OFFSET: 972428.061
DEPTH: BATHY
YEAR: 2001.1
#
#####
#
# Gravity QC
#
# LOCATION : where the final data file is located
# GAP : minimum allowable time gap (in seconds)
# FIELD : field where value can be found (starting at 1 after timestamp)
# NAME : name of the field
# MIN : minimum allowable value (XXX means ignore)
# MAX : maximum allowable value (XXX means ignore)
# ROC : maximum allowable rate of change (XXX means ignore)
# DELIMITER : the delimiter for the body of data items (SPACE, COMMA, . . .)
#
#TAG LOCATION GAP FIELD NAME MIN MAX ROC DELIMITER
GRQC /data/current_cruise/geopdata/GRV/ 30 1 GRAVITY 8000 12000 100 SPACE
#####
#
# NBP PSP and PIR coefficients
# PSP serial number:
# PIR serial number:
#
# PSP and PIR - 1/(input module gain * pre-amp gain * sensitivity)
# PIR pre-amp gain = 307.5, input module gain = 1
# PIR calibration = 3.95
# PSP pre-amp gain = 309.3, input module gain = 2
# PSP calibration = 8.28
#
# PIR = 823.30 = 1/(1 * 307.5 * 3.95E-6)
# PSP = 195.23 = 1/(2 * 309.3 * 8.28E-6)
#
PSP1 195.23
PIR1 823.23
#
#####
#
# NBP met
#
# Port windbird serial number:

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# Starboard windbird serial number:
# PAR serial number:
#
# wind coefficients
# w1x w1y w2x w2y
WIND 7.5385521 7.5385521 7.5385521 7.5385521
# Air temperature
ATMP 10.0 -50.0
#Relative humidity temperature
RLHT 10.0 -40.0
# Relative Humidity
RELH 10.0
# PAR      1E4/5.62
PAR 1779.3594
#####
#
#####
#
# Engineering
#
# RPM pitch rudder
SENG 25. 10. 3400. 2500. 20.
PENG 25. 10. 3400. 2500. 20.
# Roll and Pitch Pot
POPI 4.0 4.0
# Seawater flow meter
SWFL 20.0
#
#####
#
# NBP winches
#
# Scale conversion information for the science
# winches on the NBP. Sheave measurements made
# on 01/01/00. Wire Pull tests done on dates
# indicated
#
# stbd winch sheave diam= 28.125" .714m
# 9/16" wire wire diam = 0.5625" .014m
# total circumference= 90.124" 2.289m
# magnets = 24
# Payout Scale factor= 3.755 .095
# Tension Scale Factor= 200
# operation limit= 20,718 lb
#
# port 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
#
# baltic winch sheave diam= 12.125 .308m
# .322" wire wire diam = 0.322 .008m
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#      total circumference= 39.103" 0.993m
#      magnets           = 10
#      Payout Scale factor= 3.910   0.099m
#      Tension Scale Factor= 200
#      operation limit= 5,980 lb
#
# Load pin in waterfall winches is sending out an A/D
# value of 2 even under 0 tension
# Also, payout pos/neg is opposite other winches
# uwf winch      sheave diam= 12.125   .308m
#                wire diam  = 0.322    .00818m
#                total circumference= 39.103" 0.993m
#                magnets     = 10
#                Payout Scale factor= 3.910   0.0993m
#                Tension Scale Factor= 60
#                operation limit= 5,980 lb
#
# lwf winch      sheave diam= 12.125   0.308m
#                wire diam  = 0.3125  0.00794m
#                total circumference= 39.074" 0.993m
#                magnets     = 10
#                Payout Scale factor= 3.907   0.0993m
#                Tension Scale Factor= 60
#                operation limit= 6,565 lb
#
# wnc1 and WNC2 are old.
#
#winch  payout tension speed
#name fields are in format A:B where y=Ax+B
#
# new winch strings
# meters out = mout * a
# speed = speed * c
# tension = (tension * b) - e
#      a      b      c      d      e
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
# old winch strings
LWF  -0.1   60     -1.67   6565   0
UWF  -0.1   60     -1.67   5980   0
WNC1  0.1   200    1.67   NAN    0
WNC2  -0.1  60     -1.67   NAN    0
#
#
#####
#####
##
***** Calibration factors for SBE 21 S/N 1390 *****
***** Calibration Date of 20-NOV-99 *****
# currently in use
# Temperature calibration factors
%TEMPERATURE%
a .00364763555

```

b .000588552771
c .0000103072229
d -.00000177889932
fo 2522.389
*

conductivity calibration factors
%CONDUCTIVITY%
a .0147556503
b .452645265
c -3.91849365
d -.0000905554567
m 2.2
p 1.0
*

***** Remote Temperature Probe SN #1497 *****
***** Calibration Date of Jan. 18, 2000 *****
external temperature calibration factors
%EXTERNAL TEMPERATURE%
a .00367988692
b .000583301097
c .0000158473443
d .00000160775530
fo 2715.661
*

#####