```
################################################################################
#Loading packages
# USING THRESHOLDS AS DEFINED BY White and al. PMID 27936024)
# CHECK GGIR VERSION, IF NECESSARY INSTALL VERSION 9
################################################################################

#install.packages(c("devtools"))
#require(devtools)
#install_version("GGIR", version="1.5-9")
#install.packages(c ("GENEAread", "zoo", "bitops", "data.table", "mmap"))
ev <- lapply("GGIR", library, character.only=T)
ev
search() # check if all is loaded



mode=c(1,2,3,4,5)

# Path for the folder where bin files are stored
datadir=  "F:/DATA/Input"

#pathname to folder where output should be written to "
# Changed 17.08.2017 to have ndayswindow=14 and maxdur=0

outputdir="F:/DATA/Output"
studyname="COLAUS"
f0 = 1
f1 = 1  # f1 = c() for all
g.shell.GGIR  (#------------------------------
            # General parameters
            #------------------------------
            do.parallel = FALSE,
```

```
 mode=mode,
datadir=datadir,
outputdir=outputdir,
studyname=studyname,
f0=f0,
f1=f1,
overwrite = TRUE,
do.imp=TRUE,
idloc=1,
print.filename=TRUE,
storefolderstructure = FALSE,
#------------------------------
# Part 1 parameters:
#------------------------------
windowsizes = c(5,900,3600),
#deziredtz="Europe/Bern",
do.cal=TRUE,
do.enmo = TRUE,
do.anglez=TRUE,
chunksize=1,
printsummary=TRUE,
#------------------------------
# Part 2 parameters:
#------------------------------
strategy = 1,
ndayswindow=14,
hrs.del.start = 1,
hrs.del.end = 1,
maxdur = 15,
includedaycrit = 16,
L5M5window = c(0,24),
```

```
M5L5res = 10,
winhr = c(5),
qlevels = c(c(1380/1440),c(1410/1440)),
qwindow=c(0,24),
ilevels = c(seq(0,400,by=50),8000),
mvpathreshold =c(182),
#------------------------------
# Part 3 parameters:
#------------------------------
timethreshold= c(5),
anglethreshold=5,
ignorenonwear = TRUE,
#------------------------------
# Part 4 parameters:
#------------------------------
excludefirstlast = FALSE,
includenightcrit = 16,
def.noc.sleep = c(21,9),
#loglocation= "pathname to a sleeplog - if using one",
outliers.only = FALSE,
criterror = 4,
relyonsleeplog = FALSE,
sleeplogidnum = TRUE,
colid=1,
coln1=2,
do.visual = FALSE,
nnights = 14,
#------------------------------
# Part 5 parameters:
#------------------------------
# Key functions: Merging physical activity with sleep analyses
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```
#threshold.lig = c(30,40,50),
#threshold.mod = c(100,120),
#threshold.vig = c(400,500),
threshold.lig = c(85),
threshold.mod = c(181),
threshold.vig = c(437),
boutcriter = 0.8,
boutcriter.in = 0.9,
boutcriter.lig = 0.8,
boutcriter.mvpa = 0.8,
#boutdur.in = c(10,20,30),
#boutdur.lig = c(1,5,10),
#boutdur.mvpa = c(1,5,10),
boutdur.in = c(10),
boutdur.lig = c(10),
boutdur.mvpa = c(10),
timewindow = c("WW"),
#------------------------------
# Report generation
#------------------------------
do.report=c(5))
```