library(GGIR)

datadir="V:/…/CSV\_all"

outputdir="V:/…/GGIR ouput\_withsleeplog\_v2"

g.shell.GGIR(

mode=c(2:5),

datadir=datadir,

outputdir=outputdir,

studyname="Attempt1",

idloc=6,

f0=1,

f1=100,

print.filename=FALSE,

storefolderstructure = FALSE,

do.parallel=TRUE,

overwrite=FALSE,

#part 1#

windowsizes = c(5,900,3600),

do.anglez=TRUE,

chunksize = c(1),

printsummary=TRUE,

#part 2#

strategy = 2 , # this strategy gets rid of first data before first midnight and last midnight

includedaycrit = 16, M5L5res = 10, #already in default

winhr = 5,

qwindow=c(0,24),

qwindow\_dateformat = "%d/%m/%Y",

qlevels = c(c(1380/1440),c(1410/1440)),

ilevels = c(0,36, 201, 707, 8000),

mvpathreshold = c(201),

boutcriter = 0.8,

bout.metric = 6 ,

epochvalues2csv=TRUE,

mvpadur=c(1,5,10),

iglevels = TRUE, #this function calculates intensity gradient

do.parallel = TRUE,

#part3#

timethreshold= c(5),

acc.metric="ENMO",

anglethreshold=5,

ignorenonwear = TRUE,

#part4#

#newly added codes with sleep log#

loglocation= "V:/…/sleep\_log\_v2.csv",

def.noc.sleep=1,

colid=1,

coln1=4,

includenightcrit = 4,

outliers.only = TRUE,

relyonguider = FALSE,

sleeplogidnum = FALSE,

sleeplogsep=",",

criterror = 4,

do.visual = FALSE,

nnights = 30,

sleepwindowType = "SPT",

meta.sleep.folder = "V:/…/meta/ms3.out",

#part 5#

threshold.lig = c(35.6),

threshold.mod = c(201.4),

threshold.vig = c(707.0),

#Hildebrand 2014 and 2016 intensity thresholds#

excludefirstlast = FALSE,

boutcriter = 0.8,

boutcriter.in = 0.9,

boutcriter.lig = 0.8,

boutcriter.mvpa = 0.8,

boutdur.in = c(10),

boutdur.lig = c(1),

boutdur.mvpa = c(1),

timewindow = c("WW"),

do.report=c(2,4,5),

dofirstpage=TRUE,

visualreport=TRUE,

viewingwindow=1)