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)