

Package compilation and basic run

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Compilation

- structure
 - **tests** : removed all other folders and files except testthat from the package otherwise warnings about RDS files
 - **data** : removed remifentanil example from data folder
- **roxygen** documentation
 - warnings for ggplot (no visible global function definition)
 - added import command for pnorm (found in distribution plot) and median (found nowhere, so suspect it's the name median used in the ggplot plots, but added it all the same)
- **package size**: still 5.9 Mb so much too large for CRAN
 - the 3 simulated data files for warfarin and viral load data are all around 5Mb, consider making them available only on bookdown/website
- necessary files
 - added a DESCRIPTION file
 - added a CHANGES file
- for compilation:
 - removed NAMESPACE
 - removed man pages
- Compilation steps from Build menu
 - Document => create NAMESPACE, DESCRIPTION (update collate directive), create man pages
 - Check => update documentation, create NAMESPACE
- **FINAL COMPILATION FOR CRAN**
 - removed documentation (too large)
 - removed simWararineBase

```
setwd(file.path(workDir, "npde"))
system("rm man/*")
cmd<-paste("cp ", file.path(workDir, "latexDoc", "userguide_3_0.pdf"), " ", file.path(workDir, "userguide_npde.pdf"))
system(cmd)
roxygenise()
```

```
## Loading npde

## Writing NAMESPACE
## Writing NAMESPACE
## Writing NpdeSimData-class.Rd
## Writing extract-methods.Rd
## Writing NpdeData-class.Rd
## Writing read.Rd
## Writing show.Rd
## Writing npdeData.Rd
## Writing npdeSimData.Rd
```

```

## Writing print.NpdeData.Rd
## Writing showall.Rd
## Writing summary.NpdeData.Rd
## Writing subset.NpdeData.Rd
## Writing NpdeRes-class.Rd
## Writing kurtosis.Rd
## Writing skewness.Rd
## Writing gof.test.Rd
## Writing NpdeObject-class.Rd
## Writing dist.pred.sim.Rd
## Writing computenpde.Rd
## Writing npde.decorr.method.Rd
## Writing computepd.Rd
## Writing compute.ploq.Rd
## Writing autonpde.Rd
## Writing pdemenu.Rd
## Writing npde.main.Rd
## Writing npde.save.Rd
## Writing npde.graphs.Rd
## Writing npde-package.Rd
## Writing theopp.Rd
## Writing simtheopp.Rd
## Writing warfarin.Rd
## Writing virload.Rd
## Writing npde.cens.method.Rd
## Writing npdeControl.Rd
## Writing set.plotoptions.Rd
## Writing replace.plotoptions.Rd
## Writing npde.binning.Rd
## Writing npde.plot.covariate.Rd
## Writing npde.plot.dist.Rd
## Writing npde.plot.loq.Rd
## Writing plot.NpdeData.Rd
## Writing plot.NpdeRes.Rd
## Writing plot.NpdeObject.Rd
## Writing npde.plot.select.Rd
## Writing default.npde.plots.Rd
## Writing npde.plot.covariates.Rd
## Writing npde.plot.npde.Rd
## Writing npde.plot.data.Rd
## Writing npde.plot.default.Rd
## Writing npde.plot.scatterplot.Rd

setwd(workDir)
system("R CMD build npde")
system("R CMD check --as-cran npde_3.0.tar.gz")

```

Après correction, la compilation du package passe sans erreurs et avec 2 notes restantes.

- **notes**
 - previous version archived
 - package size too large (recommended size less than 5Mb): reduce nb of simulations for warfarin ?
 - ggplot variables (rien à faire pour ça)
- **warnings** corriges
 - jeux de données non documentées: removed remifentanil, added virload documentation (used to

- be a specific man page, reintegrated them into roxygen format in npde.R like warfarin)
- duplicated alias: fixed !

Warnings

- ggplot warnings

Undefined global functions or variables:

```
.x X2.5. X50. X97.5. Y0.025 Y0.025.1 Y0.5 Y0.5.1 Y0.975 Y0.975.1 aes
annotation_logticks category coord_cartesian coord_flip element_blank
element_line element_rect element_text expand_limits facet_wrap
geom_bar geom_boxplot geom_crossbar geom_hline geom_line geom_point
geom_ribbon ggplot ggtitle gpar grid.arrange group grp guides labs
lower name obs.inf obs.median obs.sup pinf.lower pinf.median
pinf.upper pmid.lower pmid.median pmid.upper psup.lower psup.median
psup.upper scale_fill_manual scale_x_continuous scale_x_discrete
scale_x_log10 scale_y_continuous scale_y_log10 textGrob theme upper
value x x1 x2 x_area_0.25 x_area_0.5 x_area_0.975 xcent y y1 y2
y_area_0.25 y_area_0.5 y_area_0.975
```

- Warnings in first compilation (solved)

W checking Rd metadata ...

Rd files with duplicated alias 'aux.npdeplot.computepi':

‘npde.plot.default.Rd’ ‘npde.plot.scatterplot.Rd’

Rd files with duplicated alias 'compute.bands':

‘npde.plot.default.Rd’ ‘npde.plot.scatterplot.Rd’

Rd files with duplicated alias 'compute.bands.true':

‘npde.plot.default.Rd’ ‘npde.plot.scatterplot.Rd’

Rd files with duplicated alias 'npde':

‘npde-package.Rd’ ‘npde.Rd’

checking Rd line widths ...

checking Rd cross-references ...

W checking for missing documentation entries (346ms)

Undocumented code objects:

‘remifent’ ‘simremifent’ ‘simremifent_base’ ‘simvirload’ ‘virload’

‘virload20’ ‘virload50’ ‘virloadMDV20’

Undocumented data sets:

‘remifent’ ‘simremifent’ ‘simremifent_base’ ‘simvirload’ ‘virload’

‘virload20’ ‘virload50’ ‘virloadMDV20’

All user-level objects in a package should have documentation entries.

See chapter ‘Writing R documentation files’ in the ‘Writing R

Extensions’ manual.

Install package in development mode

```
dev_mode() # development mode
```

```
## Dev mode: ON
```

```
install.packages(pkgs=file.path(workDir,"npde_3.0.tar.gz"),repos=NULL)
```

```
## Installing package into '/home/eco/R-dev'
```

```
## (as 'lib' is unspecified)
```

```

library(npde)
library(ggplot2)
library(gridExtra)
library(mclust)

## Package 'mclust' version 5.4.6
## Type 'citation("mclust")' for citing this R package in publications.

library(testthat)

##
## Attaching package: 'testthat'

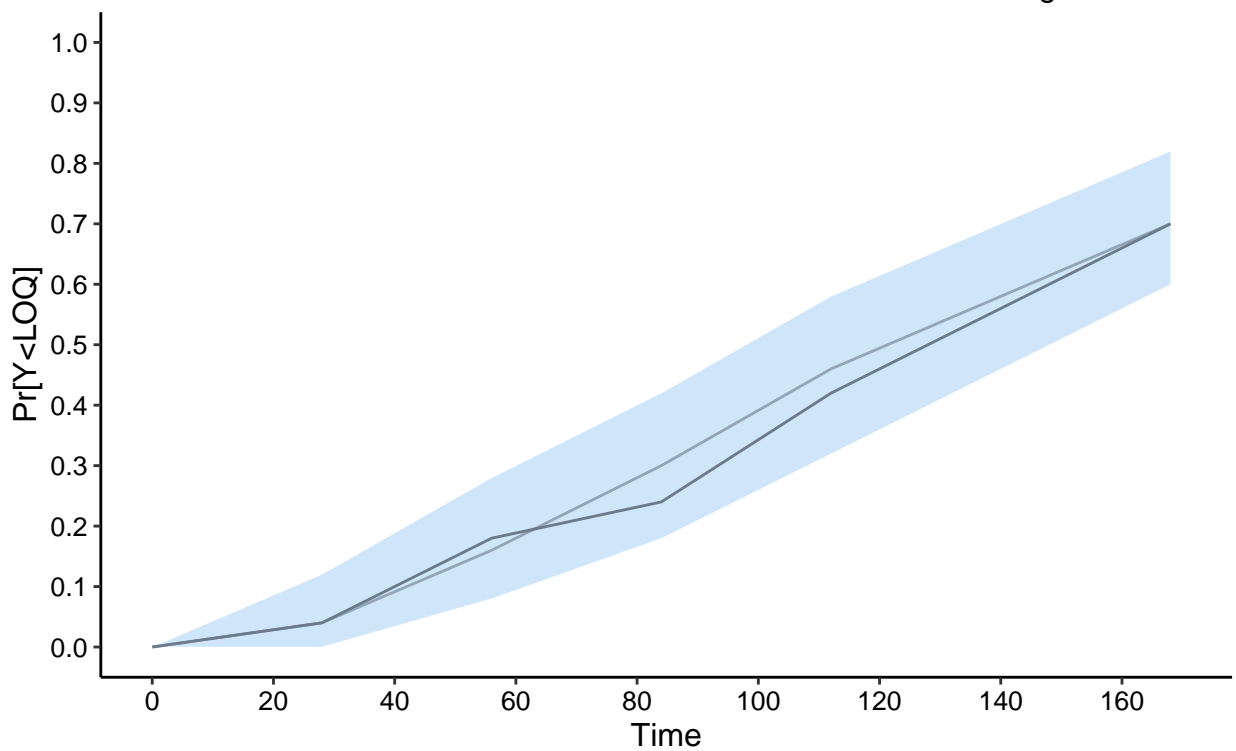
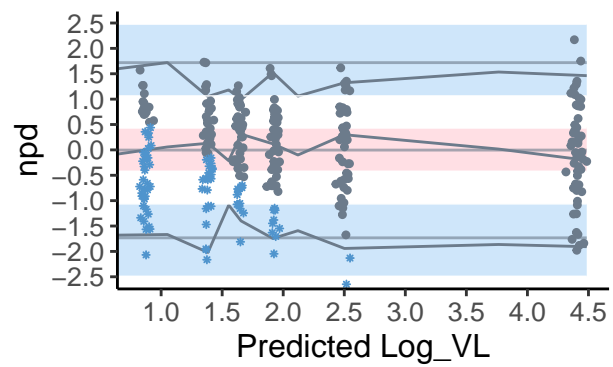
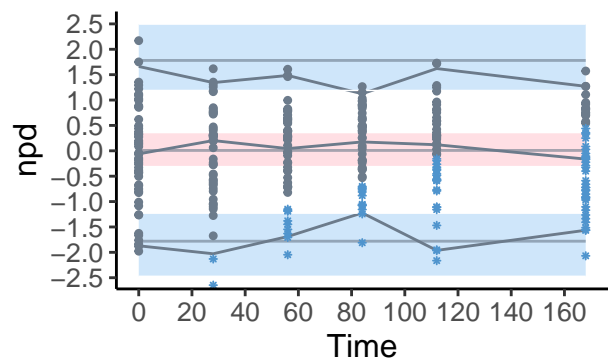
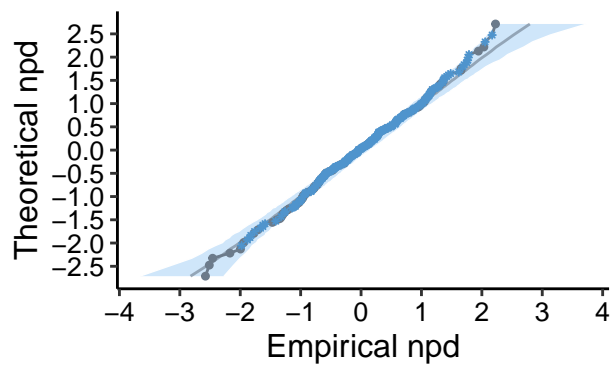
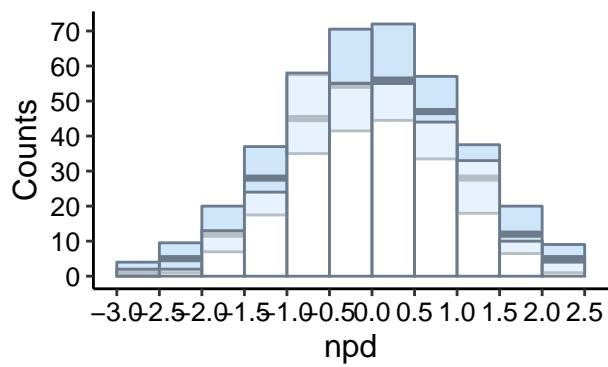
## The following object is masked from 'package:devtools':
##
##   test_file

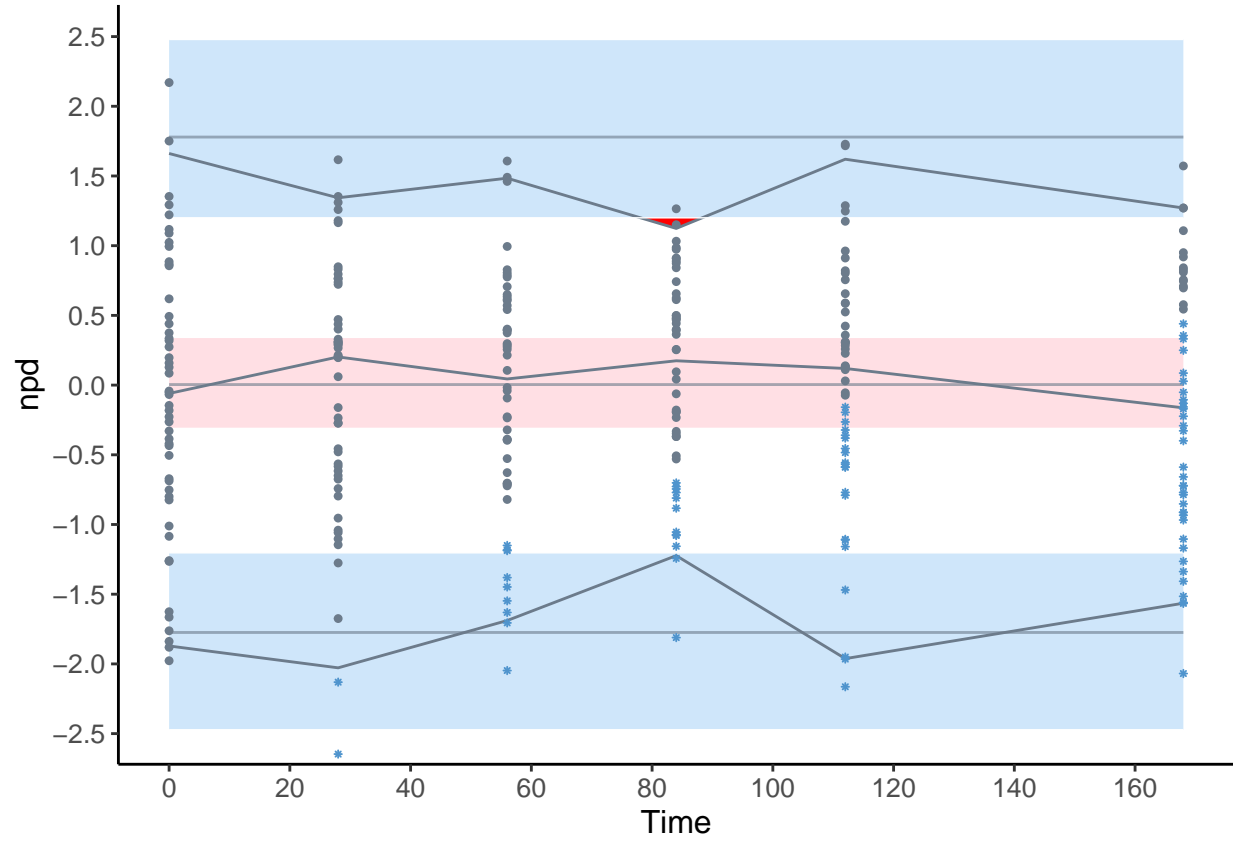
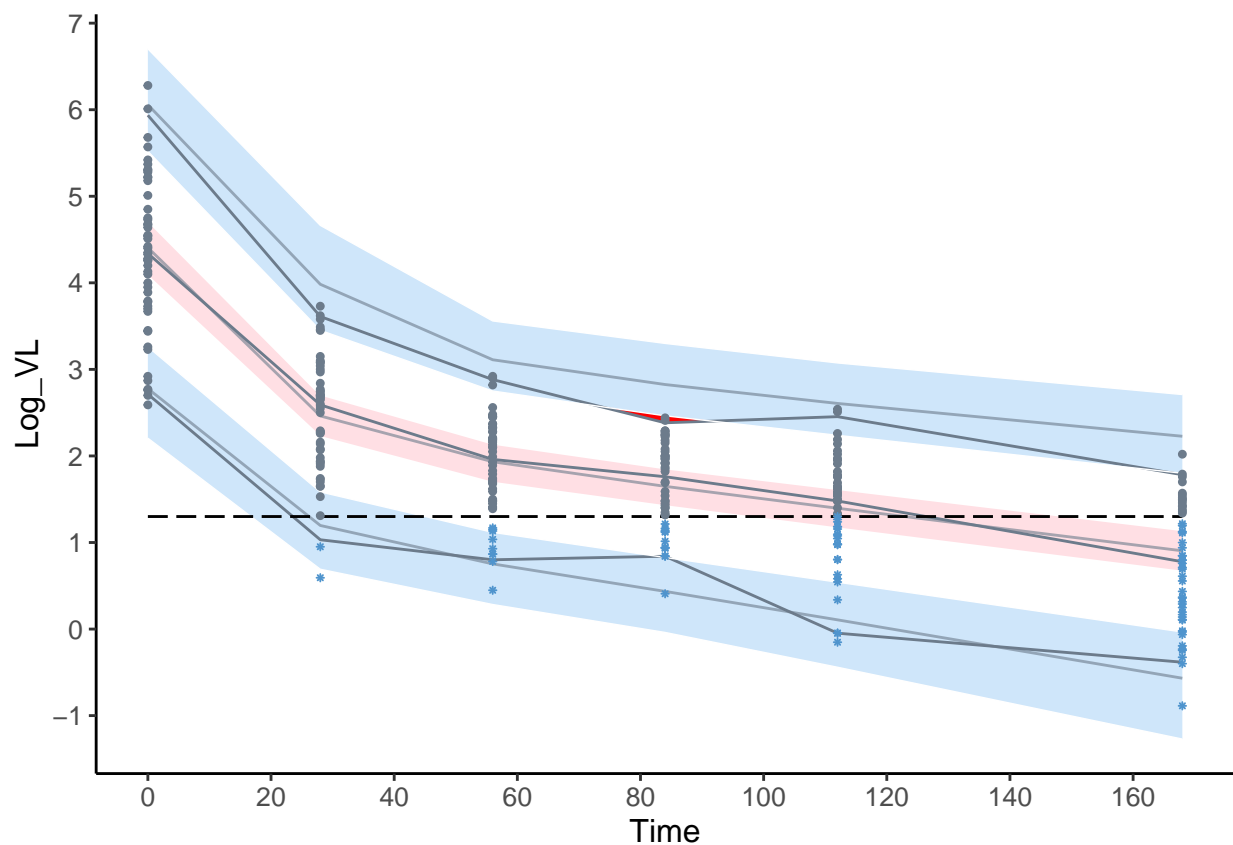
library(grid)

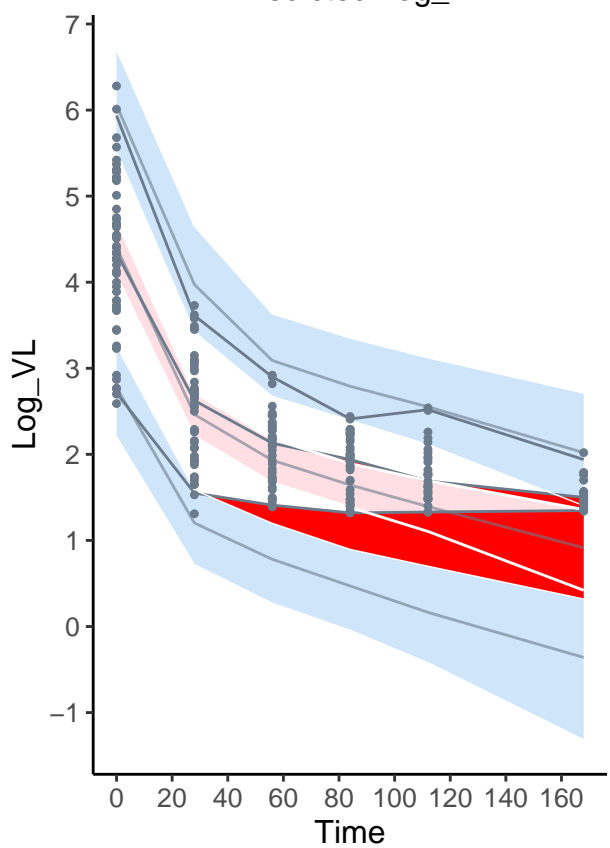
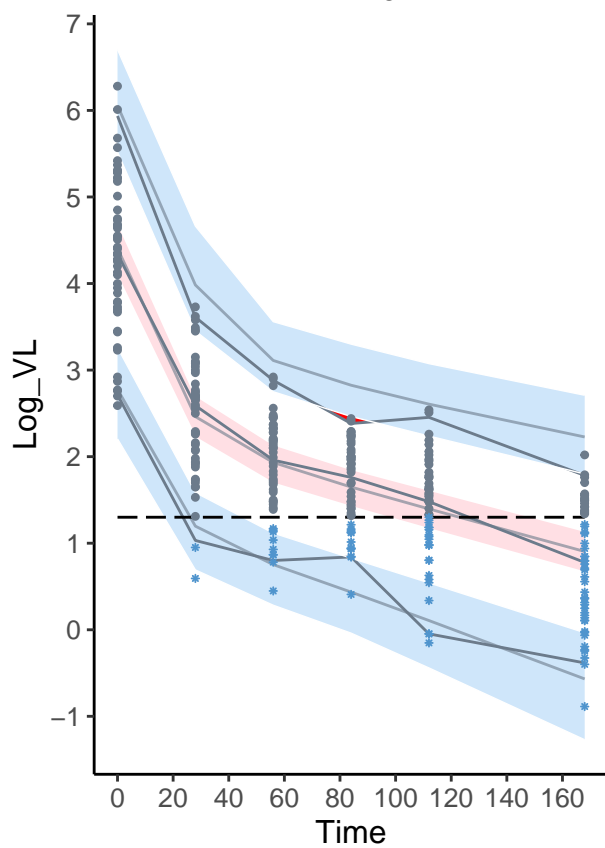
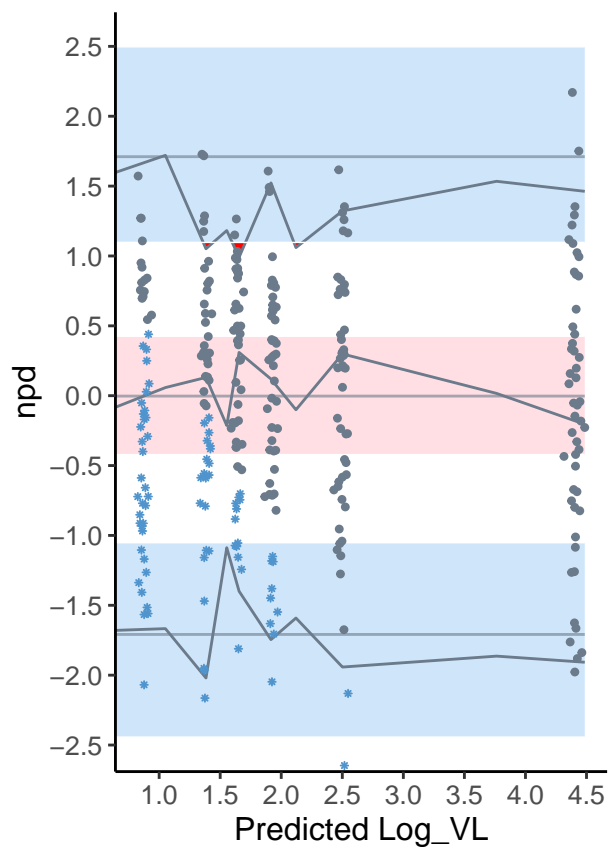
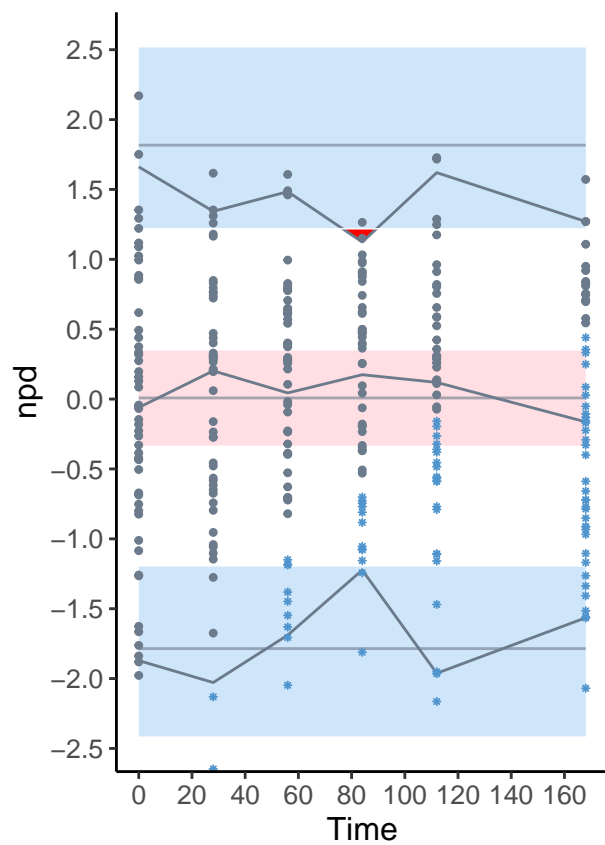
## -----
## Distribution of npde :
##      nb of obs: 300
##      mean= -0.02458   (SE= 0.054 )
##      variance= 0.8772   (SE= 0.072 )
##      skewness= -0.05996
##      kurtosis= -0.3034
## -----
## Statistical tests (adjusted p-values):
##   t-test           : 1
##   Fisher variance test : 0.37
##   SW test of normality : 1
##   Global test       : 0.37
## ---
## Signif. codes: '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1
## -----

## -----
## Distribution of npde :
##      nb of obs: 221
##      mean= 0.1017   (SE= 0.062 )
##      variance= 0.8422   (SE= 0.08 )
##      skewness= -0.09416
##      kurtosis= -0.2381
## -----
## Statistical tests (adjusted p-values):
##   t-test           : 0.303
##   Fisher variance test : 0.257
##   SW test of normality : 1
##   Global test       : 0.257
## ---
## Signif. codes: '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1
## -----

```







Bugs to sort

`plot.NpdeRes` (dans `plotNpde-methods.R`)

- **Romain TODO:** la fonction devrait prendre un objet `NpdeRes` et pas un objet `NpdeObject` (`NpdeRes` n'a pas d'element `data`, c'est juste le slot `res` d'un element `NpdeObject` !!!)
 - il faut lui donner des defaults pour `xlab`, `ylab` (et la possibilite de passer outre en passant des arguments en ...)
 - normalement il doit y avoir l'equivalent de `xobs` dans le dataframe `res` de l'objet
 - pas sure qu'on ait `not.miss` mais dans ce cas le reconstruire (a tester +++)
 - il n'y a pas de liste `plot.opt` donc prendre des defaults dans `set.default.options()`
- faire un `testthat` pour verifier que cette fonction marche par elle-meme (use `testthat` for class to generate an object `npdeData` and plot it)

`plot.NpdeData` (dans `plotNpde-methods.R`)

- **Romain TODO:** faire un `testthat` pour veeifier que la fonction et les options passent (use `testthat` for class to generate an object `npdeData` and plot it)