2019DAsKIT: surface DA validation/diagnostics

Available tools for diagnostics:
BUFR -> eccodes (ECMWF), metview (ECMWF); ECMA, CCMA files: odbsql (ECMWF), OBSMON, MANDALAY; FA files: epygram (Météo-France), OBSMON (with post-processing tools), Rfa (HARP)

Hints have been given at:
A-H common training website at
https://hirlam.org/trac/wiki/HarmonieSystemDocumentation/Training/HarmonieSystemTraining2019
beaufix -> /home/gmap/mrpe/monteiro/public/DAsKIT2018/surfDAexer/doc/
beaufix -> /home/gmap/mrpe/monteiro/public/DAsKIT2018/surfDAexer/diag

Available tools for validation/verification:
Home made scripts/macros; HARP

Particular aspects to tackle:
. how to check the number of days to cycle before starting the verification sample (warming up period): one year should be used for surface DA in absolute way; 10 days should be enough for surface (to make it short) and upper-air; the error (bias) should converge; it can be looked up on a daily basis.
. how to blacklist your stations ?
. which methodology to apply on the regular obs/DA monitoring ?