No Breakpoint

If there is no breakpoint, going from SAGEO2 outputs to DM\_FILLER inputs is really straightforward

SAGE definition

Gain=Gain\_SAGE+m\_SAGE\*(deltaT/365)

deltaT=T-Tdeployment (in juld)

DM\_FILLER definition

Gain= Gain\_DM\_FILLER\*(1+DRIFT\_DM\_FILLER\*deltaT/(365\*100))

* Gain\_DM\_FILLER=Gain\_SAGE
* DRIFT\_DM\_FILLER=m\_SAGE\*100/Gain\_SAGE

With Breakpoint (to estimate DM\_FILLER inputs after the breakpoint)

The main issue is the fact that from SAGEO2 the Gain value is the gain value at the Break point. The time of drifting is calculated with a reference at the breakpoint and not with a reference of the time of deployment. It means that to be able to apply the correction we have to calculate what would be the gain at the time of deployment, which is the input of DM\_FILLER.

* Gain DM\_FILLER=Gain\_SAGE –m\_SAGE(Tbp-Td)/365
* DRIFT\_DM\_FILLER=m\_SAGE\*100/Gain DM\_FILLER

Where Tbp is the juld of the breakpoint and Td is the Time of deployment